BYE LAW APPLICATION FEES

REF. NO.: 91A/1993 CERTIFICATE NO.: 17181/S

PROPOSAL: Petrol Filling Station + shop

LOCATION: Whitechurch Rd., Rathfarnham

APPLICANT: Conoco Ire. Ltd.

	1	2	3	4	5	6	7
CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMT. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FEE APPL.	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ £55					
B	Domestic Ext. (Improvement/ Alts.)	@ £30					
C See 17459	Building for office or other comm. purpose 97.2m	@ £3.50 per M^2 or £70	£343	340.20	£2.80	not sought	
D	Building or other structure for purposes of agriculture	@ £1.00 per M^2 in excess of 300 M^2 Min. £70					
E	Petrol Filling Station	@ £200	£200	£200	—		
F	Dev. of prop. not coming within any of the forgoing classes	£70 or £9 per .1 hect. whichever is the greater					

Column 1 Certified: Signed: _____ Grade: _____ Date: _____

Column 1 Endorsed: Signed: _____ Grade: _____ Date: _____

Columns 2,3,4,5,6 & 7 Certified: Signed: M. Deane Grade: III Date: 20/2/92

Columns 2,3,4,5,6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

FILE DISCUSSED AT COUNCIL/COMMITTEE MEETING

FILE REF: G/A 1993

MEETING	COMMENTS	NOTED IN DEV. CONTROL	NOTED BY
BELGARD H+P 28/1/92	① Noted by Cllrs Muldoon + Armade ② Cllr Mullaney in favour ② – Not very busy forecast is large Should be no problem caused by parked cars ① Wants parking spaces clearly marked – could be chaos otherwise		

PLANNING APPLICATION FEES

Reg. Ref. 91A/1993 Cert. No. 27459

PROPOSAL: Petrol Filling Station + Shop

LOCATION: Jet Petrol Filling Station, Whitechurch Road, Rathfarnham

APPLICANT: Conoco Ireland Ltd

CLASS	DWELLINGS/AREA LENGTH/STRUCT.	RATE	AMT. OF FEE REQ.	AMOUNT LODGED	BALANCE DUE	BALANCE PAID
1	Dwellings	@£32				
2	Domestic	@£16				
3	Agriculture	@50p per m2 in excess of 300m2. Min. £40				
4	Metres 97.20m	@£1.75 per m2 or £40	£171.50	£170.10	1.40	not set
5	x .1 hect.	@£25 per .1 hect. or £250				
6	x .1 hect.	@£25 per .1 hect. or £40				
7	x .1 hect.	@£25 per .1 hect. or £100				
8		@£100	£100	£100	—	
9	x metres	@£10 per m2 or £40				
10	x 1,000m	@£25 per £1000m or £40				
11	x .1 hect.	@£5 per .1 hect. or £40				

Column 1 Certified: Signed: [signature] Grade D/TI Date 6/1/92

Column 1 Endorsed: Signed: .... Grade .... Date ....

Columns 2,3,4,5,6 & 7 Certified: Signed: [signature] Grade S.O. Date 24/12/91

Columns 2,3,4,5,6 & 7 Endorsed: Signed: .... Grade .... Date ....

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1982

ASSESSMENT OF FINANCIAL CONTRIBUTION

REG.REF.: 91A/1993

CONT. REG.:

SERVICES INVOLVED: WATER/FOUL SEWER SURFACE WATER

AREA OF SITE:

FLOOR AREA OF PRESENT PROPOSAL: 1047FT² 1047sqft J.Y. 6/1/92. 13/2/92.

MEASURED BY:

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT:

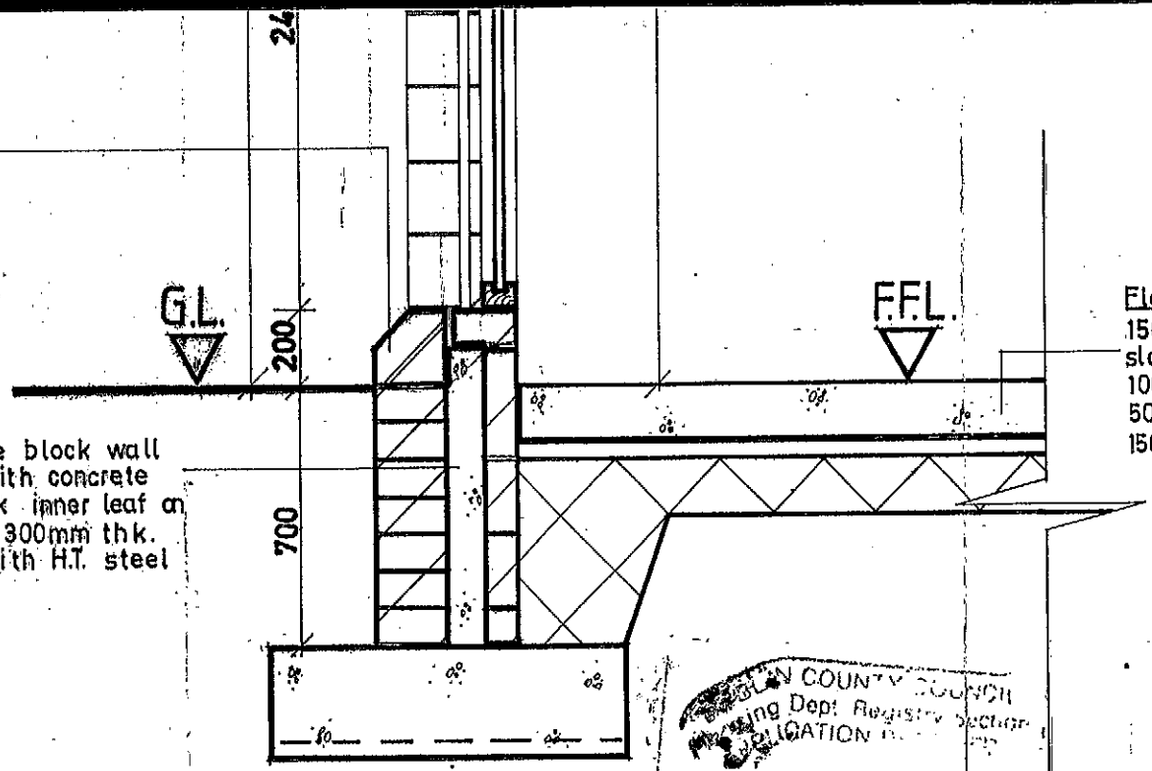
MANAGER'S ORDER NO: P/ / DATED

ENTERED IN CONTRIBUTIONS REGISTER:

_____

DEVELOPMENT CONTROL ASSISTANT GRADE

'Forticrete cill block'



Rising walls
215mm thk. solid concrete block wall with 100mm cavity filled with concrete (grade 10) with 100mm block inner leaf on concrete foundations 1000x300mm thk. (grade 20) reinforced with H.T. steel mesh ref. B 283.

Floor
150mm thk. concrete (grade 20) floor slab on
1000 gauge 'visqueen' dpm on
50 mm sand blinding on
150 mm well compacted hard core

NOTE
This drawing should be read in conjunction with the relevent engineers details and calculations, as the structural steelwork may vary for individual buildings.

Ryan O'Brien Handy Associates
Architects & Designers

38 Percy Place, Dublin 4. 680899 Fax 680089
111 Wellington Street, Luton LU1 5AF (0582)401492

Project **conoco**

Revisions

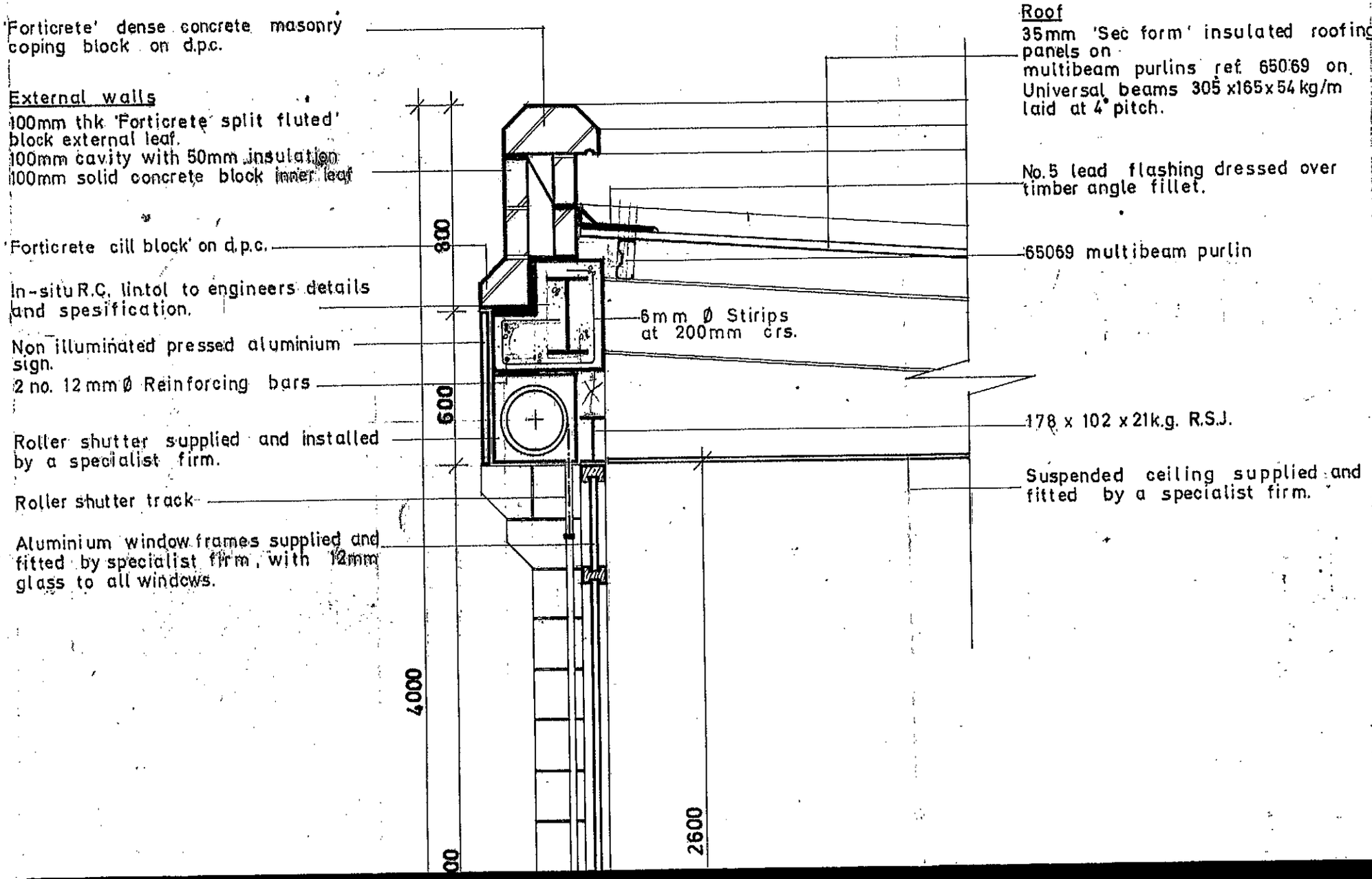
Date Dec. 89

Scale 1:20

Standard wall section

Drawing no. 600/89

JDH13196


'Forticrete' dense concrete masonry coping block on d.p.c.
External walls
100mm thk 'Forticrete' split fluted' block external leaf.
100mm cavity with 50mm insulation
100mm solid concrete block inner leaf
'Forticrete cill block' on d.p.c.
In-situ R.C. lintol to engineers details and spesification.
Non illuminated pressed aluminium sign.
2 no. 12mm Ø Reinforcing bars
Roller shutter supplied and installed by a specialist firm.
Roller shutter track
Aluminium window frames supplied and fitted by specialist firm, with 12mm glass to all windows.
800
600
4000
2600
6mm Ø Stirips at 200mm crs.
Roof
35mm 'Sec form' insulated roofing panels on multibeam purlins ref. 65069 on Universal beams 305 x 165 x 54 kg/m laid at 4° pitch.
No. 5 lead flashing dressed over timber angle fillet.
65069 multibeam purlin
178 x 102 x 21k.g. R.S.J.
Suspended ceiling supplied and fitted by a specialist firm.

P/663/92

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

BELGARD

Register Reference : 91A/1993 Date Received : 18th December 1991

Correspondence Name and Address : Ryan O'Brien Handy Assoc., 6 Percy Place, Dublin 4.

Development : Redevelopment of Jet Petrol Filling Station, to include a new shop/office/store building, replacement underground petrol storage tanks and alterations to existing canopy.

Location : Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

Applicant : Conoco Ireland Ltd.,

App. Type : Permission

Zoning : To protect and/or improve residential amenity.

Floor Area : 97.2 Sq.metres

CONTRIBUTION:
Standard:
Special:
Open Space:
Other:
SECURITY:
Bond / C.I.F.:
Cash:

MCS.
(MOS/BB)

Report of Dublin Planning officer dated 11th February, 1992.

This is an application for PERMISSION. The proposed development consists of the redevelopment of Jet Filling Station to include a new shop/office/store building, replacement underground petrol storage tanks and alterations to existing canopy at Jet Petrol Filling Station, Whitechurch Road, Rathfarnham. The applicant is Conoco Ireland Ltd.

Under Reg. Re. TA 1195, permission was granted for proposed additional underground petrol storage tank and alterations at Gatiens Service Station, WHitechurch Road, Rathfarnham.

The site is zoned 'A' in the 1983 County Development Plan with the objective "to protect and/or improve residential amenity".

The Whitechurch Road is affected by a specific long term road improvement objective in the 1983 Plan. This specific objective is excluded from the 199[illegible]

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1993

Page No: 0002

Location: Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

Draft Development Plan.

The site is located to the south of existing factories on Whitechurch Road.

The existing Petrol Station presently accommodates a shop (c. 71.3 sq. metres in area), 2 no. small stores which are used for the storage of fuels and groceries etc. and three no. pumps (2 no. petrol and 1 no. diesel).

The shop sells general groceries, and also has a video library.

There are 2 no. signs c. 1.7 metres high along the site frontage, which is formed by a dwarf wall.

PROPOSAL

It is proposed to:-

(i) construct a new shop (58.41 sq. metres floor area) office and store at the rear of the site,

(ii) install two new underground fuel storage tanks as well as an overground diesel fuel storage tanks,

(iii) install 2 no. pump islands (each containing 2 no. pumps) and a new canopy.

The proposed canopy is set back a similar distance from Whitechurch Road as the existing canopy (i.e. 4.6 - 4.75 metres). It is 5.27 metres high.

The proposed shop/office block is located in a similar position on the site as the existing building. Proposed external finishes include white 'forticrete split fluted' block on the front elevation. The proposed finish to the canopy consists of a light grey polyester powder coated finish with white illuminated letters.

It is proposed to construct a forticrete planter 880 mm. in height along part

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1993

Page No: 0003

Location: Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

of the front boundary of the site.

The proposed development will increase the petrol diesel storage capacity on the site by 28.5% from 49,500 litres (existing capacity) to 63644 litres (proposed capacity).

REPORTS

The Roads Report dated 24/1/92 states the conditions which should be attached to any grant of permission. These conditions relate to (1) the level of illumination (2) the treatment of the footpath at the entrances to the site.

The Sanitary Services Report dated 4/2/92 states that services are available as indicated and notes that the site is affected by the provisions of the Water Pollution Act.

The proposed development will improve the visual appearance of the premises. There is no objection to the proposal from a planning point of view.

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following (//) conditions:-

C O N D I T I O N S / R E A S O N S

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto.
REASON:To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That before development commences, approval under the Building Bye- Laws be obtained and all conditions of that approval be observed in the development.
REASON:In order to comply with the Sanitary Services Acts, 1878-1964.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1993

Page No: 0004

Location: Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

03 ~~That a financial contribution in the sum of £_____~~ be paid by the proposer to the Dublin County Council towards ~~the cost of provision~~ of public services in the area of the ~~proposed development~~ and which facilitate this development; ~~this~~ contribution to be paid before the commencement of ~~development~~ on the site.

REASON: ~~The provision of such services in the area by the~~ Council will ~~facilitate the~~ proposed development. It is considered reasonable that ~~the~~ developer should contribute towards the cost of providing the services.

04 That no flag poles or bunting shall be erected on the site without the prior approval of the Planning Authority.

~~04~~ REASON: In the interest of the proper planning and development of the area.

05 Prior to commencement of development to applicant is to ascertain the requirements of the Chief Fire Officer. The applicant is to strictly adhere to these ~~regulations~~ requirements in the development.

~~05~~ In the interest of safety and the avoidance of fire hazard.

06 Prior to commencement of development the applicant is to ascertain the requirements of the Supervising Environmental Health Officer. The applicant is to strictly adhere to these ~~regulations~~ requirements in the development.

~~06~~ In the interest of public health.

07 That no L.P.G. tanks are to be provided on site without the prior approval of the Planning Authority.

~~07~~ REASON: In the interest of the proper planning and development of the area.

08 That the height of the proposed illuminated sign at the front of the site is not to exceed the height of the canopy.

~~08~~ REASON: In the interest of the proper planning and development of the area.

09 That the footpath at the entrance is to be ~~treated~~ provided in accordance with the ~~regulations~~ requirements of the Area Engineer, Roads Maintenance Section of Dublin County Council.

~~09~~ REASON: In the interest of the proper planning and development of the

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1993

Page No: 0005

Location: Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

area.

9 ~~10~~ That the level of illumination at the site is to be in accordance with the ~~regulations~~ Requirements of the Roads Department. In this regard the level of illumination and orientation of any lamps may be reviewed at any time by Dublin County Council. Any required alterations requested by Dublin County Council are to be carried out at the applicants expense.

~~10~~ REASON: In the interest of the proper planning and development of the area.

10 ~~11~~ That the proposed external door from the store is to be omitted from the proposed development.
REASON: The door opens directly onto a laneway used by the adjoining factories. The location of a door in this position would be prejudicial to public safety.

~~12~~ Insert
~~That the requirements of the Sanitary Services Department be ascertained and complied with in the development~~.
REASON: In order to comply with the Sanitary Services Acts, 1878-1964.

12 12. That the Water Supply + drainage arrangements - including the disposal of surface water are to be strictly in accord. with the requirements of the San. Services Dept.

NOTE 1: The applicant should note that the proposed development must adhere to the requirements of the Dangerous Substances Act, 1970.

NOTE 2: The applicant should note that the provision of the Water Pollution Act must be adhered to.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1993

Page No: 0006

Location: Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

Endorsed:-..............................
for Principal Officer

Richard Cremins SEP
for Dublin Planning Officer
13/2/92

Order: A decision pursuant to Section 26(1) of the Local Government (Planning and Development) Acts, 1963-1990 to GRANT PERMISSION for the above proposal subject to the (11) conditions set out above is hereby made.

Dated : 13th FEBRUARY 1992

....
ASSISTANT COUNTY MANAGER/~~APPROVED OFFICER~~

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 10th February ~~1991.~~ 1992.

DUBLIN COUNTY COUNCIL

REG. REF: 91A-1993

DEVELOPMENT: Petrol Filling Station

LOCATION: Whitechurch Road, Rathfarnham

APPLICANT: Conoco Ireland Ltd.

DATE LODGED: 18.12.91

The proposal is for redevelopment of the Jet Filling Station on Whitechurch Road. A new shop unit is proposed to replace the existing.

If permission is being granted, it should be subject to:-

1. Illumination to be to the requirements of the Roads Department. In this regard the level of illumination and the location and orientation of the lamps to be reviewable at any time and alterations made at the applicants' expense if requested by Dublin County Council.

2. Footpath at the two entrances to be treated to the requirements of the Area Engineer, Roads Maintenance at the applicant's expense.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 30.01.92
Time 12.30

GC/MM
24.1.92

SIGNED: _____ **ENDORSED:** _____

DATE: _____ **DATE:** 24/1/92

SS only.

Register Reference : 91A/1993 Date : 8th January 1992

Development : Redevelopment of Jet Petrol Filling Station, to include a new shop/office/store building, replacement underground petrol storage tanks and alterations to existing canopy.

LOCATION : Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

Applicant : Conoco Ireland Ltd.,

App. Type : PERMISSION

Planning Officer : M.O'SHEE

Date Recd. : 18th December 1991

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 10.02.92
Time 10.00

Attached is a copy of the application for the above development .Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN Co. COUNCIL
15 JAN 1992
SAN SERVICES

DUBLIN CO. COUNCIL
SANITARY SERVICES
for PRINCIPAL OFFICER
-7 FEB 1992
Returned

Date received in Sanitary Services .....

FOUL SEWER

Available as indicated.

Site is subject to the provisions of the Water Pollution Act.

SURFACE WATER

Available as indicated.

Surface water run-off is subject to the provisions of the Water Pollution Act.

SENIOR ENGINEER,
SANITARY SERVICES DEPARTMENT,
46/49 UPPER O'CONNELL STREET,
DUBLIN 1

31/1/92.

J.R. 4/2/92

Acted SS

Register Reference : 91A/1993

Date : 8th January 1992

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 10.02.92
Time 1.00

.....

ENDORSED _____ DATE _____

WATER SUPPLY.....available.....

24/1/92.

.....

24/1/92

ENDORSED _____ DATE 4/2/92

COMHAIRLE CHONTAE ATHA CLIATH

DUBLIN COUNTY COUNCIL

Building Control Department,
Liffey House,
Tara Street,
Dublin 1.

Telephone: 773066

Planning Department,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

Telephone: 724755
Extension: 231/234

13/3/92

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1982

LOCATION: Whitechurch Rd., Rathfarnham.

PROPOSED DEVELOPMENT: Petrol filling station & shop

APPLICANT: Conoco Ireland Ltd.

PLANNING REG.REF.: 91A/1993

DATE OF RECEIPT OF SUBMISSION: 17/2/92

A Chara,

With reference to above, I acknowledge receipt of application for:

Building bye-law approval

Mise, le meas

A. Smith

PRINCIPAL OFFICER

Ryan O'Brien Handy Associates,

6 Percy Place,

Dublin 4.

Dublin County Council
Comhairle Chontae Atha Cliath

Bye - Law Application Form

PLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.

1. Application for Permission ☐ Outline Permission ☐ Approval ☐ Place ✓ in appropriate box.
Approval should be sought only where an outline permission was previously granted. Outline permission may not be sought for the retention of structures or continuances of uses.

2. Postal address of site or building (If none, give description sufficient to identify) Jet Petrol Filling Station
Whitechurch Road, Rathfarnham, Dublin 16.

3. Name of applicant (Principal not Agent) Conoco Ireland Ltd.
Address Conoco House, Deansgrange, Co. Dublin. Tel. No. 2896644

4. Name and address of person or firm responsible for preparation of drawings Ryan O'Brien Handy Associates
6, Percy Place, Dublin 4. Tel. No 680899

5. Name and address to which notifications should be sent Ryan O'Brien Handy Associates
6, Percy Place, Dublin 4.

6. Brief description of proposed development ~~Redevelopment of existing petrol filling station, including~~
shop/store building, canopy, pump islands, storage tanks.

7. Method of drainage Mains drainage 8. Source of Water Supply Rising Main

9. In the case of any building or buildings to be retained on site, please state:-
(a) Present use of each floor or use when last used. Not applicable
(b) Proposed use of each floor Not applicable

10 Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof? No

11.(a) Area of Site 770.00 Sq. m.
(b) Floor area of proposed development 97.20 Sq. m.
(c) Floor area of buildings proposed to be retained within site N/A Sq. m.

12. State applicant's legal interest or estate in site (i.e. freehold, leasehold, etc.) Freehold

~~BYE LAW APPLICATION~~
REC. No. N57394

13. Are you now applying also for an approval under the Building Bye Laws?
Yes ☑ No ☐ Place ✓ in appropriate box.

14. Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:
See attached notice.

£540.20

15. List of documents enclosed with application. 2 copies of specification, location map,
Drawing Nos: 2898/01, 02, 03, 04, 06, 600/6, 16C, 37, 89
3200/201, 202, 207.

16. Gross floor space of proposed development (See back) 97.20 Sq. m.
No of dwellings proposed (if any) N/A Class(es) of Development
Fee Payable £540.20 Basis of Calculation Class 8 (£200) + 97.20 sq.m x £3.50 (£340.20)
If a reduced fee is tendered details of previous relevant payment should be given

Signature of Applicant (or his Agent) [signature] Date 17th February 1992

FOR OFFICE USE ONLY
Application Type
Register Reference 91A/1993
Amount Received £ 1.22.2.2
Receipt No BBL
Date

RECEIVED
17 FEB 1992
REG. SEC.

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) REGULATIONS 1977 to 1984.

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) Acts 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications Sales Office, Sun Alliance House, Molesworth Street, Dublin 2.

1. Name and Address of applicant.

2. Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.

3. The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.

   (a) The address of the structure or the location of the land.
   (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
   (c) The name of the applicant.

   NB. Applications must be received within 2 weeks from date of publication of the notice.

4. Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1: 2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.

5. In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are:
   (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.

   (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.

   (ii) A layout and a survey plan of each floor of any structure to which the application relates.

   (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.

6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

SEPTIC TANK DRAINAGE: Where drainage by means of a septic tank is proposed, before a planning application is considered, the applicant may be required to arrange for a trial hole to be inspected and declared suitable for the satisfactory percolation of septic tank effluent. The trial hole to be dug seven feet deep at or about the site of the septic tank. Septic tanks are to be in accordence with I.I.R.S. S.R. 6:75.

INDUSTRIAL DEVELOPMENT:

The proposed use of an industrial premises should, where possible, be stated together with the estimated number of employees, (male and female). Details of trade effluents, if any, should be submitted.

Applicants to comply in full with the requirements of the Local Government (Water Pollution) Act,1977 in particular the licencing provisions of Sections 4 and 16.

PLANNING APPLICATIONS

CLASS NO.	DESCRIPTION	FEE
1.	Provision of dwelling — House/Flat.	£32.00 each
2.	Domestic extensions/other improvements.	£16.00
3.	Provision of agricultural buildings (See Regs.)	£40.00 minimum
4.	Other buildings (i.e. offices, commercial, etc.)	£1.75 per sq. metre (Min. £40.00)
5.	Use of land (Mining, deposit or waste)	£25.00 per 0.1 ha (Min £250.00)
6.	Use of land (Camping, parking, storage)	£25.00 per 0.1 ha (Min. £40.00)
7.	Provision of plant/machinery/tank or other structure for storage purposes.	£25.00 per 0.1 ha (Min. £100.00)
8.	Petrol Filling Station.	£100.00
9.	Advertising Structures.	£10.00 per m² (min £40.00)
10.	Electricity transmission lines.	£25.00 per 1,000m (Min. £40.00)
11.	Any other development.	£5.00 per 0.1 ha (Min. £40.00)

BUILDING BYE-LAW APPLICATIONS

CLASS NO.	DESCRIPTION	FEE
A	Dwelling (House/Flat)	£55.00 each
B	Domestic Extension (improvement/alteration)	£30.00 each
C	Building — Office/ Commercial Purposes	£3.50 per m² (min. £70.00)
D	Agricultural Buildings/Structures	£1.00 per m² in excess of 300 sq. metres (min. - £70.00) (Max. - £300.00)
E	Petrol Filling Station	£200.00
F	Development or Proposals not coming within any of the foregoing classes.	£9.00 per 0.1 ha (£70.00 min.) Min. Fee £30.00 Max. Fee £20,000

Cheques etc. should be made payable to: Dublin County Council.

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls.

For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.

RECEIPT CODE

COMHAIRLE CHONTAE ÁTHA CLIATH

DUBLIN COUNTY COUNCIL

46/49 UPPER O'CONNELL STREET, DUBLIN 1.

BYE LAW APPLICATION

REC. No. N 57394

PAID BY

CASH

CHEQUE ✓

M.O.

B.L.

I.T.

£ 540.20

Received this 17th day of February 1992

from Ryan O'Brien Hardy Assocs.
6 Percy Place
D. 4

the sum of five hundred . forty Pounds
twenty Pence, being fee for
bye-law application at Whitechurch Rd

[signature] Cashier

S. CAREY
Principal Officer

ROBH
ARCHITECTS & DESIGNERS

Ryan
O'Brien
Handy
Associates

6 Percy Place
Dublin 4

Telephone 680 899
Facsimile 680 089

DRAFT BUILDING REGULATIONS

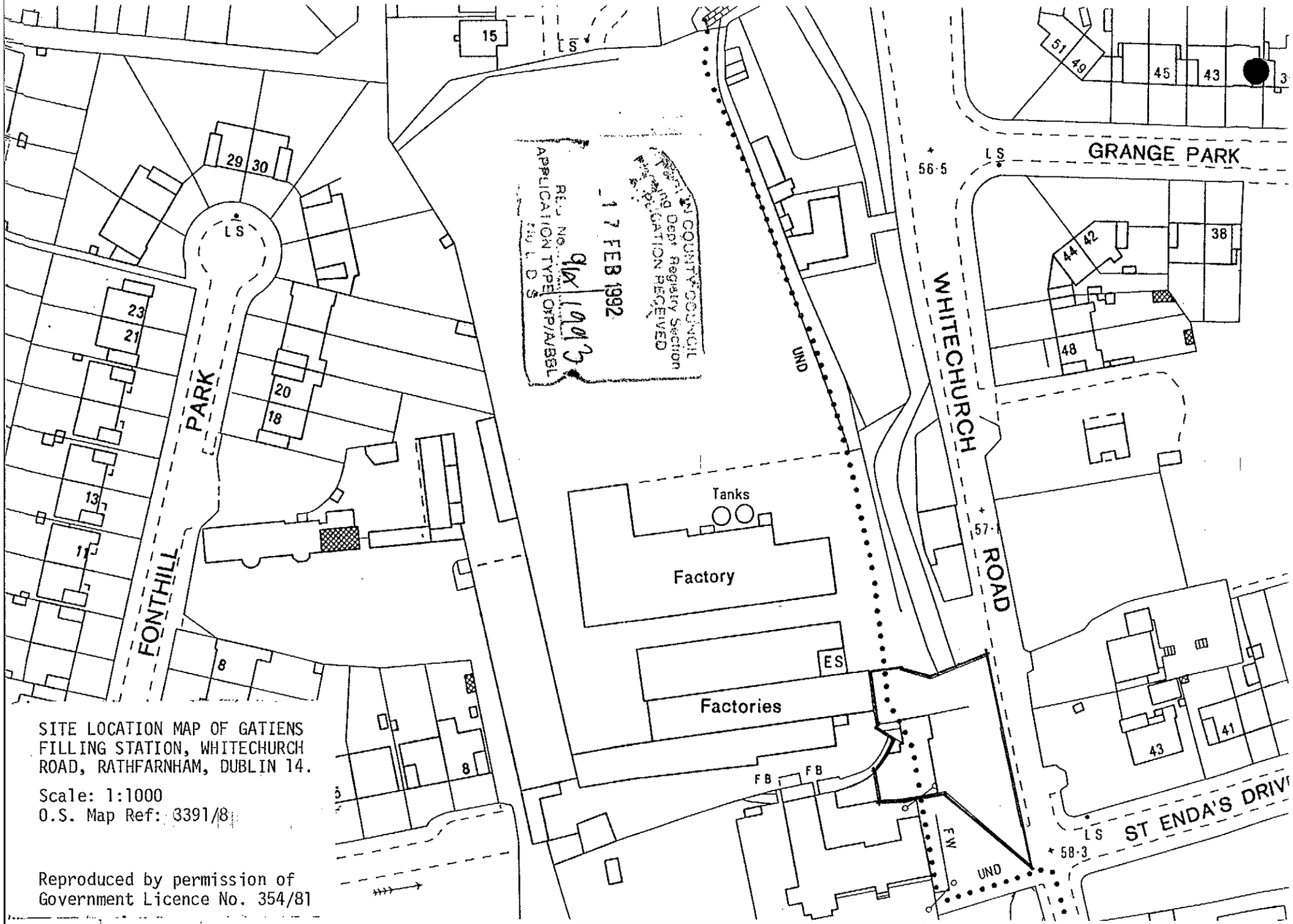
It is the practise of this office to take account of the Draft Building Regulations as issued by the Minister for the Environment in the design of buildings but this is not to be interpreted as a guarantee that the provision of the Draft Building Regulations have been implemented in full or in any particular respect in this proposal.

RYAN O'BRIEN HANDY ASSOCIATES
Architects & Designers,
6 Percy Place,
Dublin 4.

111 Wellington Street
Luton LU1 5AF

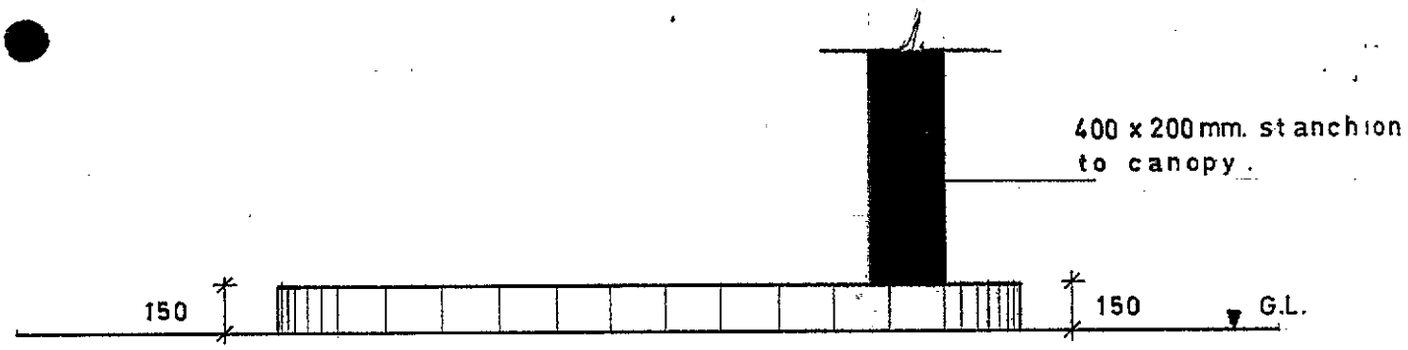
Partners
Denis Handy
DIP ARCH MRIAI MSDI
John McCarthy
DIP ARCH MRIAI MSDI

Associates
Denis Whelan
RIAI (TECH)
Kenneth McEwan
BSC (HONS)
Noel Doyle

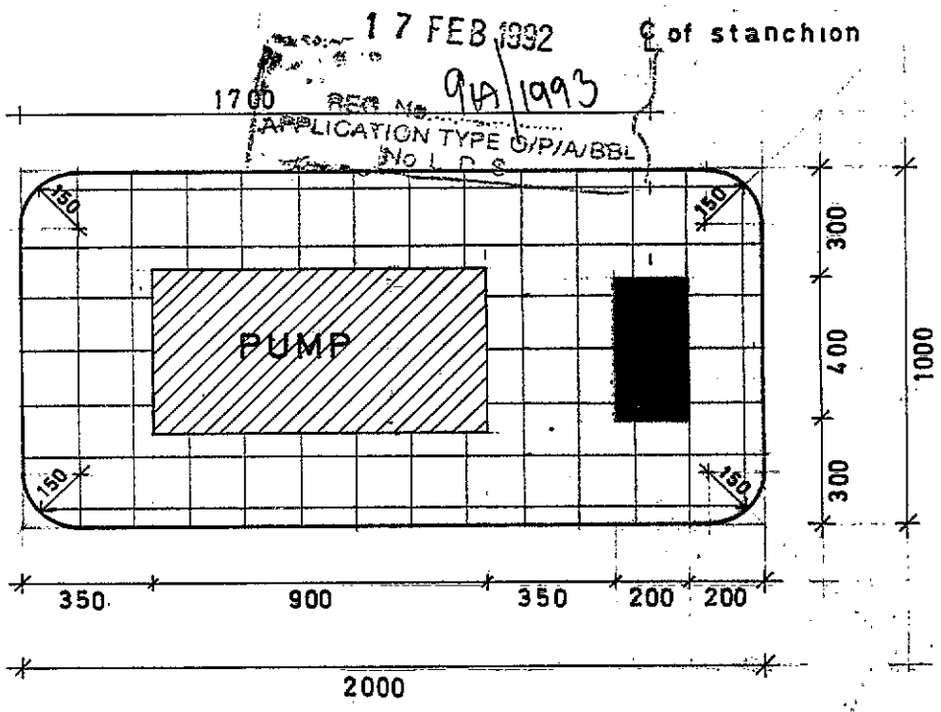


SITE LOCATION MAP OF GATIENS FILLING STATION, WHITECHURCH ROAD, RATHFARNHAM, DUBLIN 14.

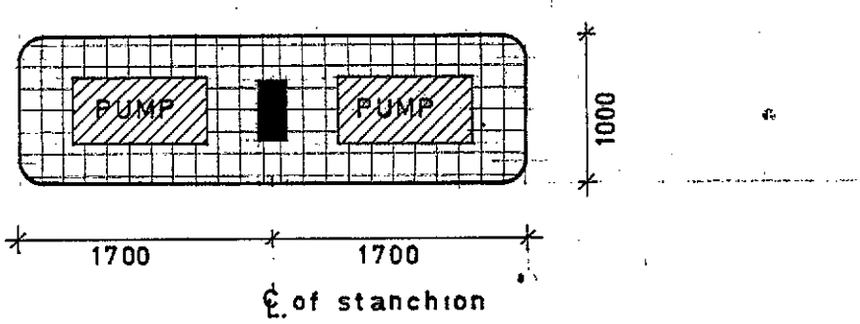
Scale: 1:1000
O.S. Map Ref: 3391/8



ELEVATION (scale 1:20)



SINGLE PUMP ISLAND (scale 1:20)



DOUBLE PUMP ISLAND (scale 1:50)

Ryan O'Brien Handy Associates
Architects & Designers
38 Percy Place, Dublin 4 (01) 680661/680899

Job Title CONOCO
Date —— Scale as shown.
Drawing title PUMP ISLAND DETAILS
Drawing no. 600/37.

G.R.P.

INSTALLATION INSTRUCTIONS FOR INTERCEPTOR TANK.

The interceptor must be handled with care and not subjected to impact or contact with sharp projections. Inspect for damage before installation.

1. Mark out the excavation area, leaving a minimum clearance of 250 mm to all sides.

2. Excavate a hole to a minimum depth of 1133 mm below the level of the outlet invert.

3. Pour concrete (Grade 20) base to a depth of 150 mm, minimum, ensuring that the surface is smooth and level, at 983 mm below the outlet invert. Allow the concrete to set before proceeding further.

4. Carefully lower the Interceptor onto the base and level to correct inverts. Align inlet and outlet with drain runs, checking inlet is at the correct end.

5. Remove discs from the air vent spigots and half fill each tank with clean water* to ensure that there is no movement when the concrete surround is poured. The Interceptor must remain at all times square and level.

6. Pour the concrete (Grade 12) to underside of inlet and outlet spigots, allowing sufficient clearance for pipe connection. Connect all pipework and seal.

7. Continue to pour the concrete to a depth of 230 mm above the shoulder of main tanks and allow time for initial set.

8. Remove the protective covers from upstands at pre-cut marks with a fine saw and trim excess material down to the top of the concrete.

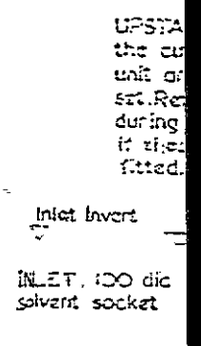
9. Replace interceptor protective covers onto the upstands. Build up manhole chambers to the required level. Manholes formed with solid concrete blocks (to I.S.20) bedded in gauged mortar and rendered both sides with 2 no. coats of sand/cement plaster, finished smooth.

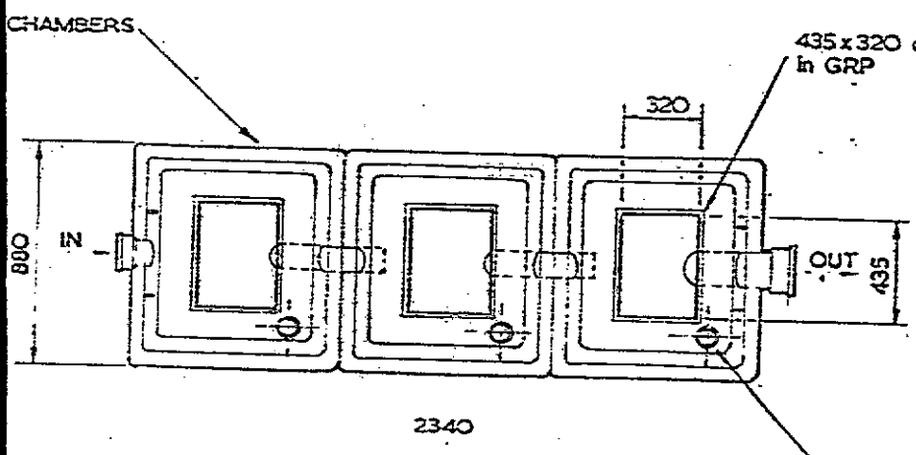
10. Top up interceptor with clean water to correct level.

11. Position heavy duty manhole covers (to B.S.497: 1976) square and level. Bed frame in cement sand ready for laying finished surface.

IMPORTANT

***Interceptor only to be filled with clean water when in position.**

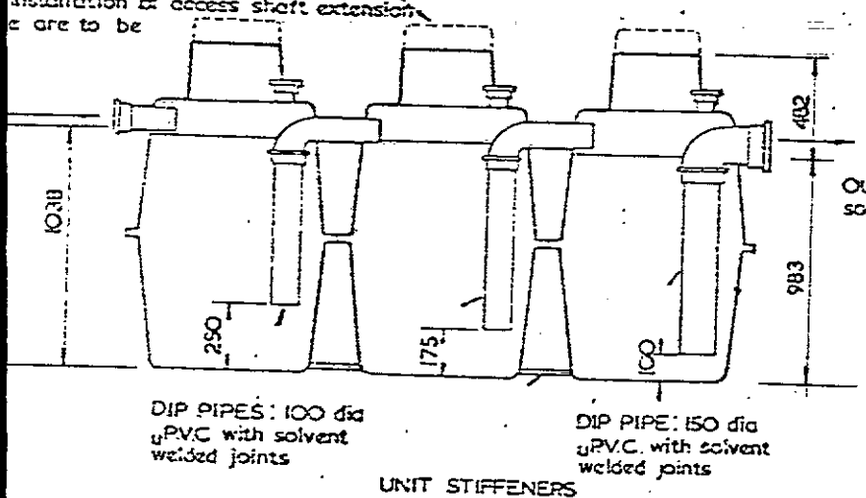




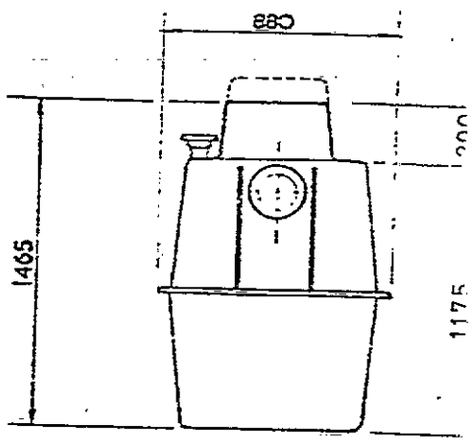
PLAN

VENTS: 75 dia uPVC. sockets: standard arrangement shown. Alternative positions available. Vent pipes must be run separately to above ground level to prevent by-passing should a blockage occur.

ND covers cut off on site at
marks after installation of
d surrounding concrete has
ein covers to blank off aperture
installation of access shaft extension
e are to be



SECTION



ELEVATION

Ryan O'Brien Handy Associates
Architects & Designers
38 Percy Place, Dublin 4 (01) 680661/68089

Job Title

Drawing title: Petrol Interceptor.

Date May 1989 Scale ——

Drawing no. 600/6.

BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS

SUNBEAM INDUSTRIAL ESTATE,
MALLOW ROAD, CORK. IRELAND.

Telephone 353-21-301077 Fax. No. 353-21-301090

CALCULATIONS

FOR

CANOPY

FOR

WHITECHURCH FILLING STATION,

RATHFARNHAM,

DUBLIN 16.

S.F.L. Engineering Ltd.,
Callan,
Co.Kilkenny,
Ireland.

5 January 1991.

NOTES ON CALCULATIONS.

1.0 LOADING

1.1 LIVE LOAD complies with B.S. 6399 : Part 3 : 1988, Loading for Buildings : Code of practice for imposed roof loads.

1.2 WIND LOAD is calculated in accordance with B.S. Code of Practice CP. 3, Chapter V, Part 2, 1972, and B.R.E. Digest No. 284, Wind Loads on Canopy Roofs. Ground Roughness Category 3 has been assumed.

2.0 STEELWORK

2.1 STEEL BEAMS and COLUMNS are designed in accordance with B.S. 449, Part 2, 1969, and B.S.5950, Part 5, 1987.

2.2 STEEL GRADE is Grade 43 A.

2.3 LIVE LOAD DEFLECTION of beams is limited to span/360.
LIVE LOAD DEFLECTION of cantilevers is limited to span/180.
LIVE LOAD DEFLECTION of edge of TWO POST CANOPIES is limited to Total Width/240.

2.4 DEAD LOAD DEFLECTION to be countered by cambering and / or shimming.

2.5 TORSIONAL RESTRAINT to be provided to beams at all connections.

2.6 FLANGES OF FASCIA BEAMS to be adequetely restrained against twisting and buckling.

2.7 JOINTS to be detailed to adequetely transfer all forces which occur.

3.0 FOUNDATIONS

3.1 FOUNDATIONS are designed to B.S.8110, The Structural Use of Concrete, 1985.

3.2 CONCRETE grade is C 30.

3.3 REINFORCEMENT has Characteristic Strength of 460 N/m.m.^2

3.4 COVER to reinforcement is 50 m.m.

3.5 ALLOWABLE SOIL BEARING PRESSURE under foundations has been assumed as 100 KN/M^2.
This should be reliably confirmed before foundations are built.

CANOPY MATERIALS SPECIFICATION

1. ROOF SHEETING.

32 x 0.5 m.m. "Alugalv", single skin steel sheeting as manufactured by TEGRAL METAL FORMING LTD.,
Athy,
Co.Kildare,
Ireland.
Tel. 353-507-31610.

Max span (single span) = 2300 m.m.
Max span (double span) = 2600 m.m.
Live load taken as 0.60 Kn/m.sq.
Deflection limited to span/200

2. CEILING SHEETING.

19.1 x 0.5 m.m. "Rigidal", single skin aluminium sheeting as manufactured by BRITISH ALCAN BUILDING PRODUCTS LTD.,
Blackpole Trading Estate,
Worcester WR3 8TJ
Tel. 0905-754030.

3. FASCIA

1.5 m.m. thick non structural "Zintec" steel fascia, with matt white stoved enamel finish.

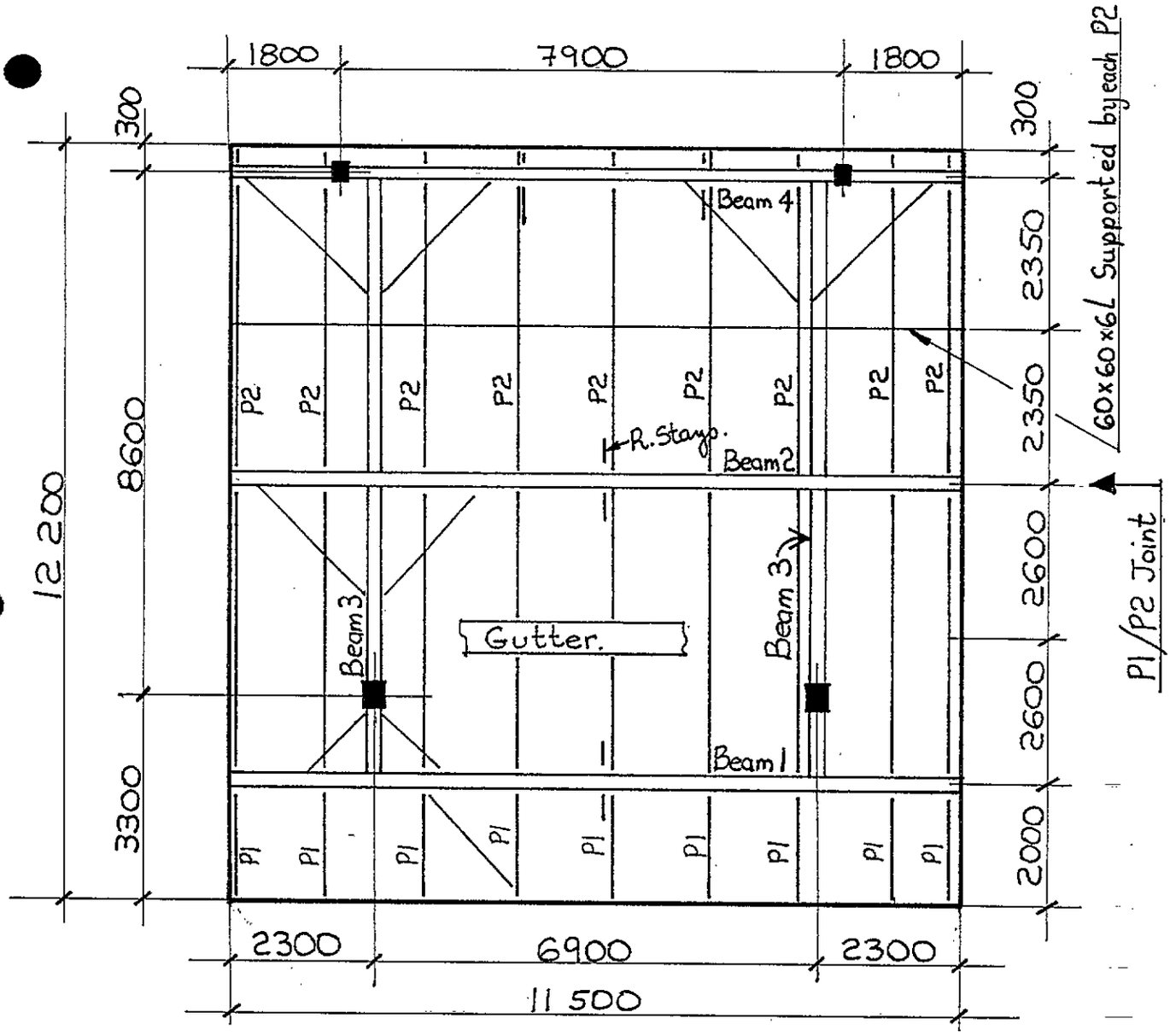
4. GUTTERS

250 wide x 100 deep, made from 1.5 m.m. thick galvanised steel, with bolted joints sealed with silicone sealant.

5. ROOF AND CEILING PURLINS

"MULTIBEAM" sections as manufactured by KINGSPAN LTD.,
Kingscourt,
Co.Cavan,
Ireland.
Tel. 353-42-67172.

MULTIBEAMS are cold formed from hot dipped galvanised steel coil to B.S. 2989 : 1982. Grade of steel is Z 28, with a minimum yield stress of 280 N/m.m.sq. Average zinc coating thickness is 0.02 m.m. to each side.



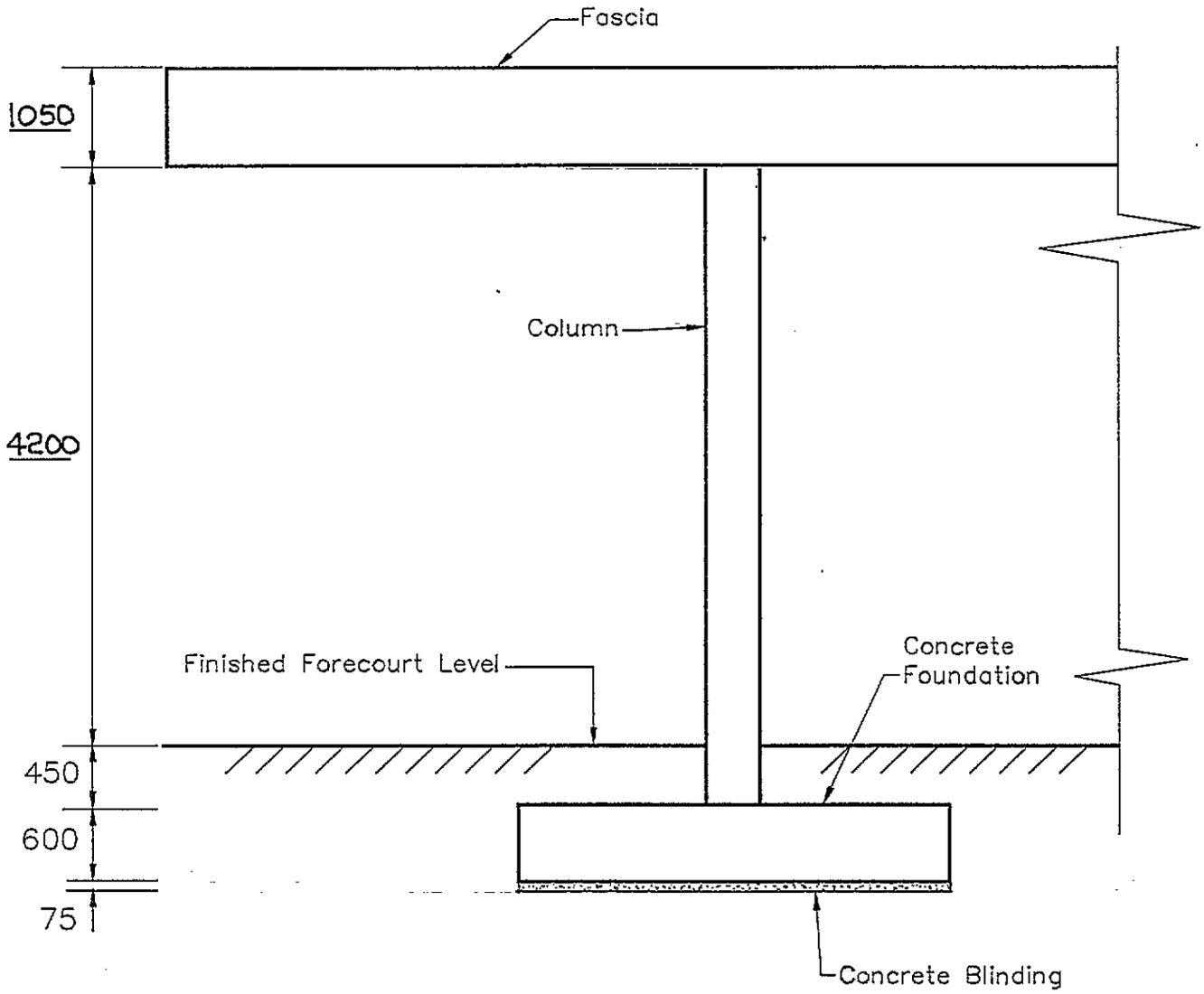
SECTION SIZES.

Fascia.....	1050 x 1.5
Ht.to underside...	4200
Purlin p1.....	55062 Multibeam at 1500 c/c.
Purlin p2.....	55062 Multibeam at 1500 c/c.
Beam 1.....	203 x 133 x 25 (Stiffs at conns, rafter stays)
Beam 2.....	203 x 133 x 25 (Stiffs at conns, rafter stays)
Beam 3.....	305 x 165 x 40 (Stiffs at conns and at col)
Beam 4.....	203 x 133 x 25 (Stiffs at conns, rafter stays).
Main Column.....	400 x 200 x 10
Rere column.....	200 x 200 x 6.3. Rear Found: 1800 x 1800 x 600 Central.
Baseplate.....	600 x 400 x 20, 12 x 150 stiffs, 6/24 dia.bolts.
Main Foundation...	3000 x 1800 x 600.

BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS
SUNBEAM INDUSTRIAL ESTATE
MALLOW ROAD, CORK, IRELAND
TEL. 353-21-301077 FAX. 353-21-301090

CLIENT: S.F.L. Engineering Ltd.
PROJECT: Whitechurch F.S. Rathfarnham.
DRG. TITLE: Roof Plan

DRAWN BY: B.F.
SCALE: 1:100
DATE: 31-1-92
DRG.NO. 284-1



SECTION THROUGH CANOPY AND BASE

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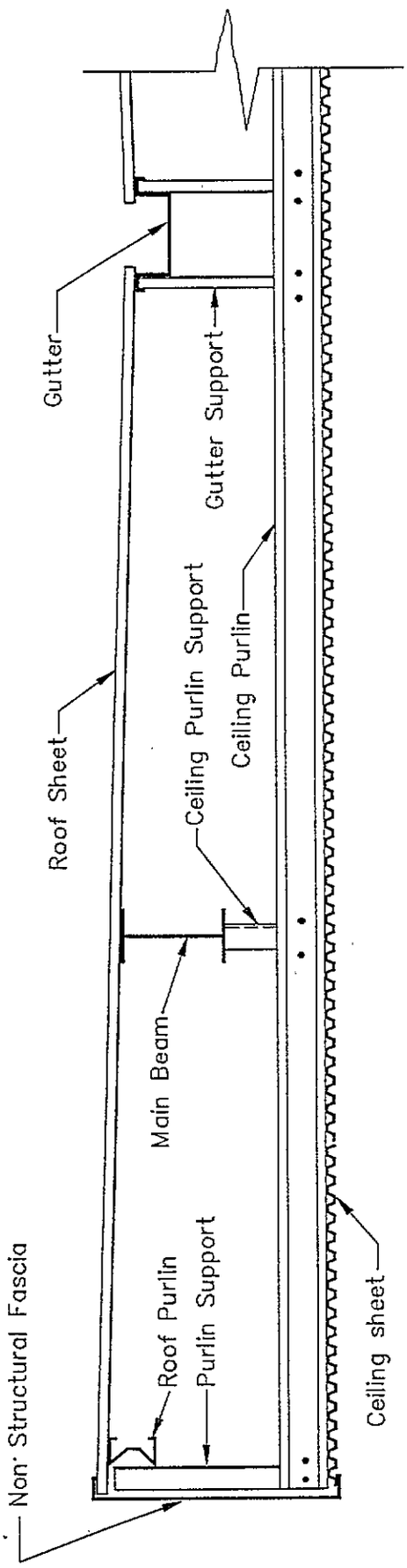
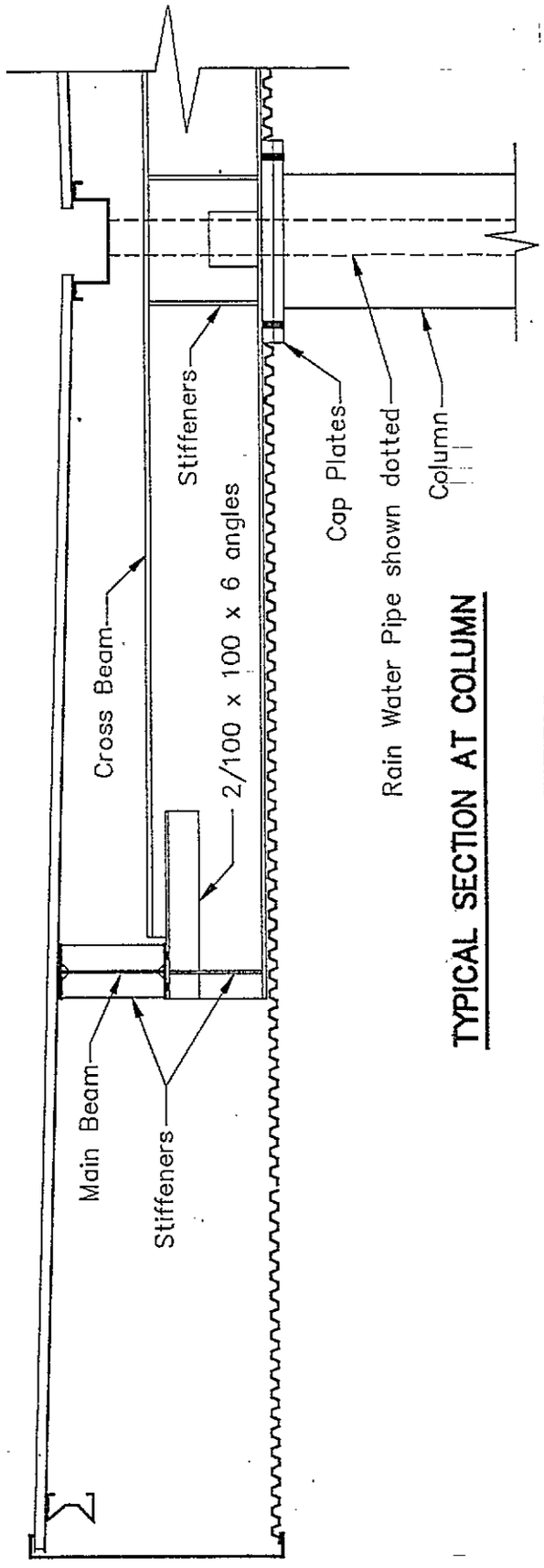
CONSULTING ENGINEERS
SUNBEAM INDUSTRIAL ESTATE
MALLOW ROAD, CORK, IRELAND
TEL. 353-21-301077 FAX. 353-21-301090

CLIENT S.F.L. Engineering Ltd.
PROJECT Whitechurch F.S. Rathfarnham
DRG. TITLE Typical Section

DRAWN BY B.F
SCALE 1 : 50
DATE 5-2-92
DRG.NO. 284-2



TYPICAL SECTION THROUGH CANOPY

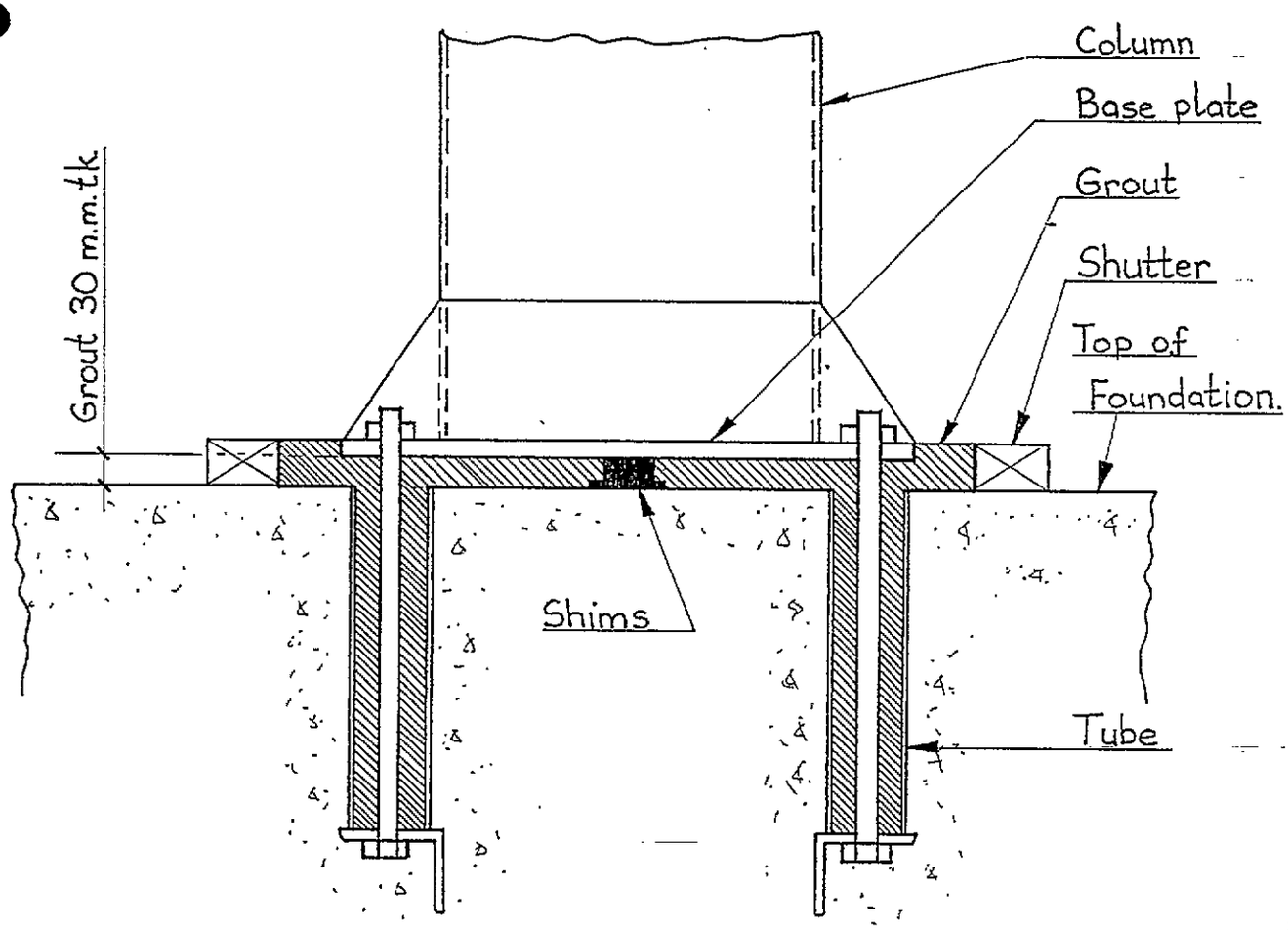


TYPICAL SECTION AT COLUMN

BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS
SUNBEAM INDUSTRIAL ESTATE
MALLOW ROAD, CORK, IRELAND
TEL. 353-21-301077 FAX. 353-21-301090

CLIENT S.F.L. Engineering Ltd.
PROJECT Whitechurch F.S. Rathfarnham
DRG. TITLE Typical Sections

DRAWN BY B.F
SCALE 1 : 20
DATE 5-2-92
DRG.NO. 284-3



BUILDER'S WORK DURING CANOPY ERECTION.

1. All water and dirt to be removed from holding down bolt tubes before columns are erected.
2. Column base plates are to be grouted by the Builder after columns are squared and plumbed.
3. Grout is to be a proprietary "non-shrink" cementicious grout, mixed and placed in accordance with manufacturers instructions.
4. A timber shutter is to be constructed to top of baseplate level as shown, before grouting commences.
5. Grout is to be fully worked into holding down bolt tubes and total area under baseplate.

BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS
SUNBEAM INDUSTRIAL ESTATE
MALLOW ROAD, CORK, IRELAND
TEL. 353-21-301077 FAX. 353-21-301090

CLIENT	S.F.L. Engineering Ltd.
PROJECT	Whitechurch F.S. Rathfarnham.
DRG. TITLE	Grouting Details.
DRAWN BY	B.F.
SCALE	1 : 7.5
DATE	5-2-92
DRG.NO.	284-4

WHITECHURCH FILLING STATION, 5-2-92.

LOADING.

1. Superimposed Loading : 0.60 Kn/m^2, BS 6399 : Part 3

2. Dead Loading : 0.15 Kn/m^2, Deck, Purlins, Soffit.

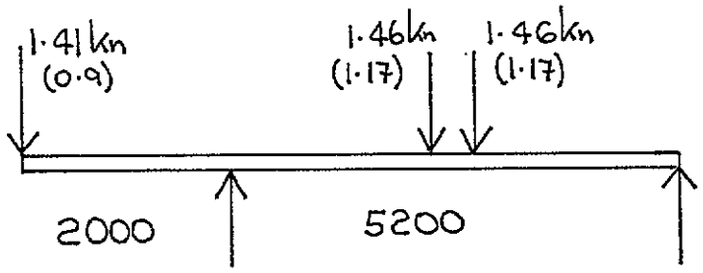
3. Fascia 1050 deep : Weight -----> 0.19 kn. / m.

4. Wind Loads.

Basic Wind Speed	=	44	m./sec.			
S1	=	1.00				
S2	=	0.65	(Ground Roughness 3, Class B)			
S3	=	1.00				
Vs	=	28.6	m./sec.			
q	=	0.50	kn./m^2			
Fascia Horz. Load	=	1.00	kn./m	(Cp	=	1.9)
Wind Pressure	=	0.15	kn./m^2	(Cp	=	0.3)
Wind Suction	=	-0.65	kn./m^2	(Cp	=	-1.3)blocked
Wind Suction	=	-0.25	kn./m^2	(Cp	=	-0.5)unblock.

SNOW LOADING to BS 6399 Part 3 1988.

Area Snow Load, Sb	=	0.5	kn./m^2		
Altitude	=	150	m. above mean sea level.		
Site Snow Load, So	=	0.57	kn./m^2		
H1	=	200	m.m.		
H2	=	120	m.m.		
(h1+h2)/So	=	0.56			
u	=	0.8		0.8	0.56
Roof Snow Load, Sd	=	0.46	kn./m^2		
Minimum Snow Load	=	0.60	kn./m^2		
Design Snow Load	=	0.60	kn./m^2		



WHITECHURCH FILLING STATION, PURLIN 1 3

ESTIMATION OF LOADING FOR PURLIN

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 1.50 x 1.00 x 0.75 +
1.50 x 0.19
= 1.41 Kn.

Point Load 2 = 1.50 x 1.30 x 0.75
= 1.46 Kn.

Point Load 3 = 1.50 x 0.00 x 0.90 +
1.50 x 0.00
= 0.00 Kn.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 1.50 x 1.00 x 0.60
= 0.90 Kn.

Point Load 2 = 1.50 x 1.30 x 0.60
= 1.17 Kn.

Point Load 3 = 1.50 x 0.00 x 0.60
= 0.00 Kn.

WHITECHURCH FILLING STATION, PURLIN 1 31-1-92.

BEAM DESIGN. CANTILEVER----SPAN----CANTILEVER.

Span 1 = 2.00 m.
Span 2 = 5.20 m.
Span 3 = 0.00 m.

(COLD ROLLED SECTIONS)
Span..... 0.000 m.
Fascia... 1050 m.m.

Pt.Load 1	=	1.41 Kn.	(LL+DL)	0.90 Kn.	(LL.)
Pt.Load 2	=	1.46 Kn.	(LL+DL)	1.17 Kn.	(LL.)
Pt.Load 3	=	1.46 Kn.	(LL+DL)	1.17 Kn.	(LL.)
Pt.Load 4	=	0.00 Kn.	(LL+DL)	0.00 Kn.	(LL.)

TRY 55062 MULTIBEAM.

Ixx	=	156.99 cm^4.
Zxx	=	22.32 cm^3.
A	=	5.10 cm^2.
D	=	140.00 m.m.
Ry	=	2.23 cm.
t	=	1.58 m.m.
B	=	73.00 m.m.

DEFLECTION DESIGN.

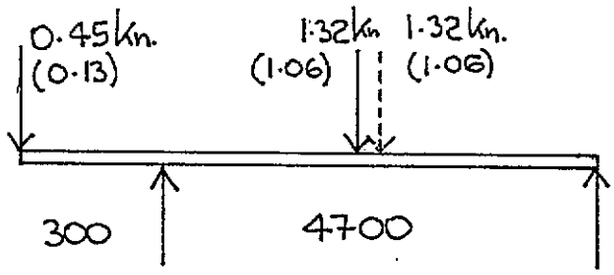
Span 1		Span 2		Span 3	
d1 =	7.28	d1 =	20.79	d1 =	0.00
d2 =	2.93	d2 =	-9.45	d2 =	0.00
d3 =	-8.00	d3 =	0.00	d3 =	0.00
	2.22		11.34		0.00 Total Deflections
	11.11		26.00		0.00 Allow. Deflections

STRENGTH DESIGN 4.99 Mo

M1	=	4.31 Kn.m.		Mb	=	5.69 kn.m.	7.35
M2	=	5.66 Kn.m.	4.16	Mb	=	5.51 kn.m.	7.35
M3	=	0.00 KN.m.		Mb	=	ERR kn.m.	7.35

REACTIONS.

Ra =	3.41 Kn.	Rb =	0.92 Kn.	DL+LL.	
Ra =	2.42 Kn.	Rb =	0.82 Kn.	LL.	



ESTIMATION OF LOADING FOR PURLIN

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 1.50 x 0.15 x 0.75 +
1.50 x 0.19
= 0.45 Kn.

Point Load 2 = 1.50 x 1.18 x 0.75
= 1.32 Kn.

Point Load 3 = 1.50 x 0.00 x 0.90 +
1.50 x 0.00
= 0.00 Kn.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 1.50 x 0.15 x 0.60
= 0.13 Kn.

Point Load 2 = 1.50 x 1.18 x 0.60
= 1.06 Kn.

Point Load 3 = 1.50 x 0.00 x 0.60
= 0.00 Kn.

WHITECHURCH FILLING STATION, PURLIN 2 31-1-92.

BEAM DESIGN.
==========

Span 1 = 0.30 m.
Span 2 = 4.70 m.
Span 3 = 0.00 m.

CANTILEVER----SPAN----CANTILEVER.
==========

(COLD ROLLED SECTIONS)
Span..... 0.000 m.
Fascia... 1050 m.m.

Pt.Load 1	=	0.45 Kn.	(LL+DL)	0.13 Kn.	(LL.)
Pt.Load 2	=	1.32 Kn.	(LL+DL)	1.06 Kn.	(LL.)
Pt.Load 3	=	1.32 Kn.	(LL+DL)	1.06 Kn.	(LL.)
Pt.Load 4	=	0.00 Kn.	(LL+DL)	0.00 Kn.	(LL.)

TRY 55062 MULTIBEAM.

Ixx	=	156.99 cm^4.
Zxx	=	22.32 cm^3.
A	=	5.10 cm^2.
D	=	140.00 m.m.
Ry	=	2.23 cm.
t	=	1.58 m.m.
B	=	73.00 m.m.

DEFLECTION DESIGN.
==========

Span 1		Span 2		Span 3	
d1 =	0.00	d1 =	13.88	d1 =	0.00
d2 =	-1.71	d2 =	-0.17	d2 =	0.00
d3 =	-0.89	d3 =	0.00	d3 =	0.00
	-2.60		13.70		0.00 Total Deflections
	1.67		23.50		0.00 Allow. Deflections

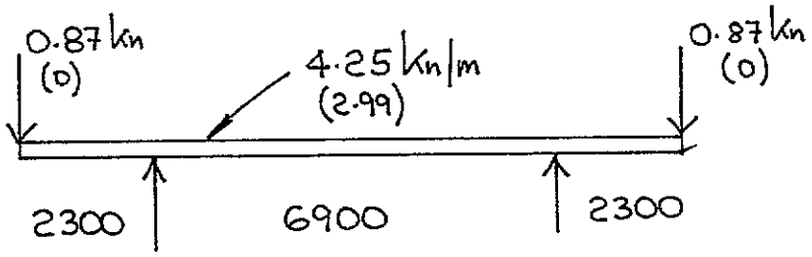
STRENGTH DESIGN
==========

4.99 Mo

M1	=	0.20 Kn.m.		Mb	=	7.03 kn.m.	7.35
M2	=	4.59 Kn.m.	4.40 Mb		=	5.48 kn.m.	7.35
M3	=	0.00 KN.m.		Mb	=	ERR kn.m.	7.35

REACTIONS.
==========

Ra =	1.80 Kn.	Rb =	1.29 Kn.	DL+LL.	
Ra =	1.20 Kn.	Rb =	1.05 Kn.	LL.	



WHITECHURCH FILLING STATION, BEAM 1 31-1

ESTIMATION OF LOADS ON BEAM 1

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 4.60 x 0.19 +
0.00 x 0.20 +
0.00 x 0.00 x 0.75
= 0.87 Kn.

Point Load 2 = 4.60 x 0.19 +
0.00 x 0.20 +
0.00 x 0.90 x 0.75
= 0.87 Kn.

U.D. LOAD = 3.41 / 1.50 +
(1.00 + 1.30)x 0.75 +
0.25
= 4.25 Kn./m.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 0.00 x 0.00 x 0.60
0.00 Kn.

Point Load 2 = 0.00 x 0.00 x 0.60
0.00 Kn.

U.D. LOAD = 2.42 / 1.50 +
(1.00 + 1.30)x 0.60
= 2.99 Kn./m.

Beam 1

BEAM DESIGN. CANTILEVER----SPAN----CANTILEVER.

Span 1 = 2.30 m.
Span 2 = 6.90 m.
Span 3 = 2.30 m.

Pt.Load 1 =	0.87 Kn. (LL+DL)	0.00 Kn.	(LL.)
U.D.Load =	4.25 Kn/m.(LL+DL)	2.99 Kn./m.	(LL.)
Pt.Load 2 =	0.87 Kn. (LL+DL)	0.00 Kn.	(LL.)

TRY 203 x 133 x 25

Ixx =	2356.00	cm^4.
Zxx =	231.90	cm^3.
Ry =	3.10	cm.
D/t =	26.00	

DEFLECTION DESIGN.

Span 1		Span 2		Span 3	
d1 =	0.00	d1 =	17.86	d1 =	0.00
d2 =	2.12	d2 =	-4.88	d2 =	2.12
d3 =	-4.23	d3 =	-4.88	d3 =	-4.23
d4 =	-2.12			d4 =	-2.12

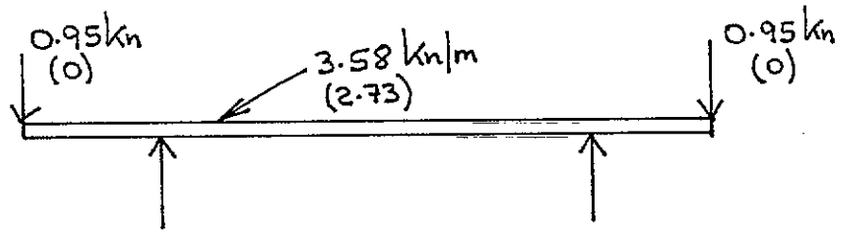
-4.23	8.10	-4.23	Total Deflections
12.78	19.17	12.78	Allow. Deflections

STRENGTH DESIGN.

		Stress at holes.	Width
M1 =	13.25 Kn.m.	85.36	133.00
M2 =	25.28 Kn.m.	162.92	
M3 =	13.25 KN.m.	85.36	
Moment =	22.00 Kn.m.	141.77	
Stress =	94.87 N/m.m.^2		
D/t =	26.00		
L/ry =	140.00		
Le =	4.34 m.	Maximum Effective Length	> 3.5 m.

REACTIONS.

Ra =	25.30 Kn.	Rb =	25.30 Kn. (LL+DL)
Ra =	17.21 Kn.	Rb =	17.21 Kn. (LL)



WHITECHURCH FILLING STATION, BEAM 2 31-1

ESTIMATION OF LOADS ON BEAM 2

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 5.00 x 0.19 +
0.00 x 0.20 +
0.00 x 0.00 x 0.75
= 0.95 Kn.

Point Load 2 = 5.00 x 0.19 +
0.00 x 0.20 +
0.00 x 0.90 x 0.75
= 0.95 Kn.

U.D. LOAD = 2.21 / 1.50 +
(1.18 + 1.30)x 0.75 +
0.25
= 3.58 Kn./m.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 0.00 x 0.00 x 0.60
0.00 Kn.

Point Load 2 = 0.00 x 0.00 x 0.60
0.00 Kn.

U.D. LOAD = 1.87 / 1.50 +
(1.18 + 1.30)x 0.60
= 2.73 Kn./m.

WHITECHURCH FILLING STATION, BEAM 2 31-1-92.

BEAM DESIGN.

CANTILEVER----SPAN----CANTILEVER.

Span 1 = 2.30 m.
Span 2 = 6.90 m.
Span 3 = 2.30 m.

Pt.Load 1	=	0.95 Kn.	(LL+DL)	0.00 Kn. (LL.)
U.D.Load	=	3.58 Kn/m.	(LL+DL)	2.73 Kn./m. (LL.)
Pt.Load 2	=	0.95 Kn.	(LL+DL)	0.00 Kn. (LL.)

TRY 203 x 133 x 25

Ixx	=	2356.00	cm^4.
Zxx	=	231.90	cm^3.
Ry	=	3.10	cm.
D/t	=	26.00	

DEFLECTION DESIGN.

Span 1		Span 2		Span 3	
d1 =	0.00	d1 =	16.31	d1 =	0.00
d2 =	1.93	d2 =	-4.45	d2 =	1.93
d3 =	-3.87	d3 =	-4.45	d3 =	-3.87
d4 =	-1.93			d4 =	-1.93

-3.87	7.40	-3.87 Total Deflections
12.78	19.17	12.78 Allow. Deflections

STRENGTH DESIGN.

			Stress at holes.	Width
M1	=	11.66 Kn.m.	75.16	133.00
M2	=	21.33 Kn.m.	137.42	
M3	=	11.66 KN.m.	75.16	
Moment	=	19.00 Kn.m.	122.44	
Stress	=	81.93 N/m.m.^2		
D/t	=	26.00		
L/ry	=	180.00		
Le	=	5.58 m.	Maximum Effective Length	> 3.5 m.

REACTIONS.

Ra	=	21.55 Kn.	Rb	=	21.55 Kn. (LL+DL)
Ra	=	15.72 Kn.	Rb	=	15.72 Kn. (LL)

Beam 3

Strength Design.

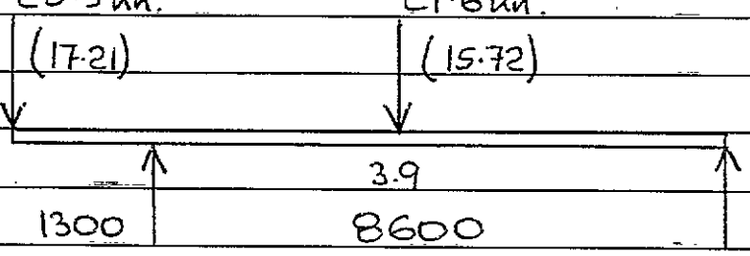
D.L + L.L.

Pt 1 = 25.3 kn.

Pt 2 = 21.6 kn.

σ = 165 x 301/561

= 89 N/mm²



D/T = 30, ℓ/r_y = 150, ℓ_{emax} = 150 x 38.5 = 5775mm.

> 4700 m.m.

Deflection Design.

L.L. only.

Pt 1 = 17.21 kn. I reqd = 4100 cm⁴

Pt 2 = 15.72 kn. I prov. = 8523 cm⁴

305 x 165 x 40

Ra = 13.5 + 25.3 x 9.9/8.6 = 42.6 kn.

Ra' = 8.6 + 17.21 x da. = 28.4 kn.

Rb = 11.49 - 25.3 x 1.3/8.6 = 7.66 kn.

Rb' = 7.13 - 17.21 x 1.3/8.6 = 4.52 kn.

Column Design.

Main column

Case 1 : Dead + Super + Wind.

Load = 42.6 kn.

5.175 Mxa = 1.0 x 5.75 x (.525 + 4.2 + .45) = 29.8 kn.m.

Mxb = 1.0 x $7.5 x 5.175 /2 = 19.4 kn.m.

Case 2 : Dead + wind.

Load = 42.6 - 28.4 - 0.25 x 5.75 x 4.6

= 7.6 kn.

Mx = 30 kn.m, My = 20 kn.m.

400 x 200 x 10

WHITECHURCH FILLING STATION, BEAM 3 31-1-92.

SPAN (M.)..... 8.600001

UDL , (KN / M.).... .4
P1 (Kn.)..... 21.55 A1 (M.)..... 3.9
P2 (Kn.)..... 0 A2 (M.)..... 0
P3 (Kn.)..... 0 A3 (M.)..... 0
P4 (Kn.)..... 0 a4 (M.)..... 0
P5 (Kn.)..... 0 A5 (M.)..... 0

I (cm^4.)..... 6188.511 Z (cm^3.)..... 300.5914

Ra (Kn.)..... 13.49733 Rb (Kn.)..... 11.49267

TO RERUN, ENTER 1 ; TO RETURN TO PROG. SELECTION, ENTER 21

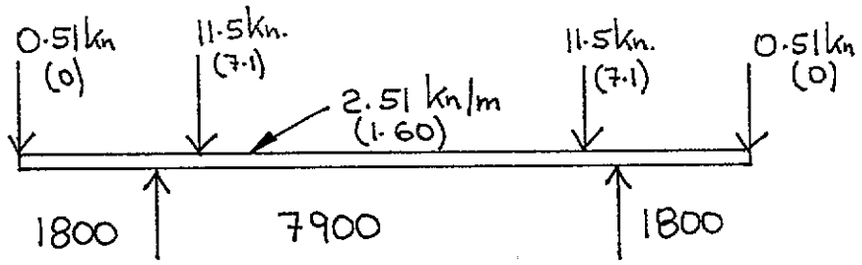
SPAN (M.)..... 8.600001

UDL , (KN / M.).... 0
P1 (Kn.)..... 15.72 A1 (M.)..... 3.9
P2 (Kn.)..... 0 A2 (M.)..... 0
P3 (Kn.)..... 0 A3 (M.)..... 0
P4 (Kn.)..... 0 a4 (M.)..... 0
P5 (Kn.)..... 0 A5 (M.)..... 0

I (cm^4.)..... 4100.068 Z (cm^3.)..... 203.0639

Ra (Kn.)..... 8.591164 Rb (Kn.)..... 7.128837

TO RERUN, ENTER 1 ; TO RETURN TO PROG. SELECTION, ENTER 2



WHITECHURCH FILLING STATION BEAM 4 31-1

ESTIMATION OF LOADS ON BEAM 4

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 2.70 x 0.19 +
0.00 x 0.20 +
0.00 x 0.00 x 0.75
= 0.51 Kn.

Point Load 2 = 2.70 x 0.19 +
0.00 x 0.20 +
0.00 x 0.90 x 0.75
= 0.51 Kn.

U.D. LOAD = 1.80 / 1.50 +
(0.15 + 1.18)x 0.75 +
0.31
= 2.51 Kn./m.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 0.00 x 0.00 x 0.60
0.00 Kn.

Point Load 2 = 0.00 x 0.00 x 0.60
0.00 Kn.

U.D. LOAD = 1.20 / 1.50 +
(0.15 + 1.18)x 0.60
= 1.60 Kn./m.

WHITECHURCH FILLING STATION BEAM 4 31-1-92.

BEAM DESIGN. CANTILEVER----SPAN----CANTILEVER.

Span 1 = 1.80 m.
Span 2 = 7.90 m.
Span 3 = 1.80 m.

Pt.Load 1	=	0.51 Kn.	(LL+DL)	0.00 Kn.	(LL.)
U.D.Load	=	2.51 Kn/m.	(LL+DL)	1.60 Kn./m.	(LL.)
Pt.Load 2	=	0.51 Kn.	(LL+DL)	0.00 Kn.	(LL.)

TRY 203 x 133 x 25

Ixx	=	2356.00	cm^4.
Zxx	=	231.90	cm^3.
Ry	=	3.10	cm.
D/t	=	26.00	

DEFLECTION DESIGN.

Span 1		Span 2		Span 3	
d1 =	0.00	d1 =	16.38	d1 =	0.00
d2 =	0.42	d2 =	-2.09	d2 =	0.42
d3 =	-5.48	d3 =	-2.09	d3 =	-5.48
d4 =	-2.74			d4 =	-2.74

-7.80	12.20	-7.80	Total Deflections
10.00	21.94	10.00	Allow. Deflections

STRENGTH DESIGN.

			Stress at holes.	Width
M1	=	4.99 Kn.m.	32.13	133.00
M2	=	19.56 Kn.m.	126.06	
M3	=	4.99 KN.m.	32.13	
Moment	=	24.00 Kn.m.	154.66	
Stress	=	103.49 N/m.m.^2		
D/t	=	26.00		
L/ry	=	130.00		3.0
Le	=	4.03 m.	Maximum Effective Length	> 2.7 m.

REACTIONS.

Ra	=	14.93 Kn.	Rb	=	14.93 Kn.	(LL+DL)
Ra	=	9.19 Kn.	Rb	=	9.19 Kn.	(LL)

WHITECHURCH FILLING STATION, MAIN COL 5-2-92.

COLUMN DESIGN.

		CASE 1	CASE 2	
Max. Load.	=	42.60	7.60	KN.
Moment x-x (a)	=	30.00	30.00	KN.M.
Moment x-x (b)	=	0.00	0.00	KN.M.
Moment y-y	=	20.00	20.00	KN.M.
Height	=	4.65	4.65	M.
Eff. Length x-x	=	9.30	9.30	M.
Eff. Length y-y	=	9.30	9.30	M.
Canopy Width.	=	0.00	0.00	M.

TRY 400 X 200 X 10 R.H.S.

A	=	116.00	cm^2
Z x-x	=	1207.00	cm^3
Z y-y	=	814.00	cm^3
I x-x	=	24140.00	cm^4
I y-y	=	8138.00	cm^4
ry	=	8.39	cm.
D/t	=		

Lateral Defl. x-x	=	4.27	4.27	m.m.
Allow Defl. x-x	=	25.83	25.83	m.m.
Lateral Defl. y-y	=	8.43	8.43	m.m.
Allow Defl, y-y	=	25.83	25.83	m.m.
Edge Defl.	=	0.00	0.00	m.m.
Allow. Edge Defl.	=	0.00	0.00	m.m.

STRENGTH DESIGN.

Compression.

Leff./ry	=	110.85	110.85	
Pc	=	66.41	66.41	N./m.m.^2
Ax.Str.	=	3.67	0.66	N./m.m.^2

Bending.

Leff./ry	=	55.42	55.42	
D/t	=	0.00	0.00	
Pcb.	=	165.00	165.00	N./m.m.^2
Bend.Str.	=	24.86	24.86	N./m.m.^2

COEFFICIENT	=	0.21	0.16	< 1.0

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Rear Column.

Case 1 : Dead + Super + wind // to shop.

Load = 14.93 + 7.66 = 22.6kn.

Mxa = 1.0 x 5 x 5.175/2 = 12.94kn.m.

My = 0

Case 2 : Dead + wind // to shop.

8.88 Load = 14.93 - 9.19 + 7.66 - 4.52 - 0.25 x 5 x 5.75

= 1.7kn.

Mx = 13kn.m My = 0.

200 x 200 x 6.3

Rear Faund.

Cases as for rear col, with case 3 added.

Case 3 : Dead + wind ⊥ to shop.

Load = do - 0.65 x 5 x 5.75

= - 10 kn

Mx = 0, My = 0

1800 x 1800 x 600 Central on col.

WHITECHURCH FILLING STATION, REAR COL, 5-2-92.

COLUMN DESIGN.

		CASE 1	CASE 2	
Max. Load.	=	22.60	1.70	KN.
Moment x-x (a)	=	13.00	13.00	KN.M.
Moment x-x (b)	=	0.00	0.00	KN.M.
Moment y-y	=	0.00	0.00	KN.M.
Height	=	4.65	4.65	M.
Eff. Length x-x	=	9.30	9.30	M.
Eff. Length y-y	=	9.30	9.30	M.
Canopy Width.	=	0.00	0.00	M.

try 200 x 200 x 6.3 r.h.s.

A	=	48.60	cm^2
Z x-x	=	303.00	cm^3
Z y-y	=	303.00	cm^3
I x-x	=	3033.00	cm^4
I y-y	=	3033.00	cm^4
ry	=	7.90	cm.
D/t	=		

Lateral Defl. x-x	=	14.71	14.71 m.m.
Allow Defl. x-x	=	25.83	25.83 m.m.
Lateral Defl. y-y	=	0.00	0.00 m.m.
Allow Defl, y-y	=	25.83	25.83 m.m.
Edge Defl.	=	0.00	0.00 m.m.
Allow. Edge Defl.	=	0.00	0.00 m.m.

STRENGTH DESIGN.

Compression.

Leff./ry	=	117.72	117.72	
Pc	=	60.25	60.25	N./m.m.^2
Ax.Str.	=	4.65	0.35	N./m.m.^2

Bending.

Leff./ry	=	58.86	58.86	
D/t	=	0.00	0.00	
Pcb.	=	165.00	165.00	N./m.m.^2
Bend.Str.	=	42.90	42.90	N./m.m.^2

COEFFICIENT	=	0.34	0.27	< 1.0

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WHITECHURCH FILLING STATION, MAIN COL, 5-2-92.

BASEPLATE DESIGN RECTANGULAR COLUMN

DIMENSIONS.

	LENGTH	WIDTH	THICK
COLUMN :	400	200	--
BASEPL :	600	400	20
H.D. BOLTS :	3	2	24
STIFFS :	2	150	12

LOADING.

	CASE 1 x-x	CASE 1 y-y	CASE 2 x-x	CASE 2 y-y	
LOAD :	44.6	44.6	9.6	9.6	Kn.
MOMENT :	30.0	20.0	30.0	20.0	Kn.m.

RESULTANT FORCES / STRESSES.

	ACTUAL				ALLOWABLE	
Depth to Neutral Axis.(D)..	173.8	110.6	173.8	110.6	---	m.m.
Compressive Force.....(C)..	83.6	85.2	65.8	68.5	---	Kn.
Tensile Force.....(T)..	39.0	40.6	56.2	58.9	---	Kn.
Stress in grout under BSPL.	2.4	2.6	1.9	2.1	6.5	N./mm2
BSPL bend. stress at column	---	109.6	---	88.1	206.0	N./mm2
Stiff. bending stress.....	43.2	---	34.0	---	206.0	N./mm2
Actual H.D.Tension.....	13.0	20.3	18.7	29.4	---	Kn.
Required H.D.Tension.....	18.2	28.4	26.2	41.2	57.4	Kn.
BSPL bend. st. at H.D.bolt.	64.1	100.1	92.3	145.0	206.0	N./mm2
Stiff. bending stress.....	21.7	22.6	31.2	32.7	206.0	N./mm2

WHITECHURCH FILLING STATION, MAIN COL 5-2-92.

FOUNDATION DESIGN

		CASE 1	CASE 2	CASE 3		
Max. Load	=	44.60	9.60	0.00	KN.	
Moment X-X	=	34.20	34.20	0.00	KN.M.	
Moment Y-Y	=	22.80	22.80	0.00	KN.M.	
Base Length	=	3.00	3.00	3.00	M.	
Base Width	=	1.80	1.80	1.80	M.	
Base Thickness	=	0.60	0.60	0.60	M.	
Base Area	=	5.40	5.40	5.40	M^2.	
Base Z x-x	=	2.70	2.70	2.70	M^3.	
Base Z y-y	=	1.62	1.62	1.62	M^3.	
STRESSES UNDER BASE :						
Super Load	=	8.26	1.78	0.00	KN./M^2.	
Soil	=	7.20	7.20	7.20	KN./M^2.	
Base	=	14.40	14.40	14.40	KN./M^2	
Wind x-x	=	12.67	12.67	0.00	KN./M^2.	
Wind y-y	=	14.07	14.07	0.00	KN./M^2.	
MAX. STRESSES :						
Wind x-x	=	42.53	36.04	21.60	KN./M^2	< 100
Wind y-y	=	43.93	37.45	21.60	KN./M^2	< 100
MIN. STRESSES :						
Wind x-x	=	-17.19	10.71	21.60	KN./M^2	> 0
Wind y-y	=	15.79	9.30	21.60	KN./M^2	> 0
FACTOR OF SAFETY :						
O.T.M. x-x	=	34.20	34.20	0.00	KN.M.	
R.M. x-x	=	174.96	174.96	174.96	KN.M.	
F.O.S. x-x	=	5.12	5.12	ERR		> 1.5
O.T.M. y-y	=	22.80	22.80	0.00	KN.M.	
R.M. y-y	=	104.98	104.98	104.98	KN.M.	
F.O.S. y-y	=	4.60	4.60	ERR		> 1.5

FOUNDATION REINFORCEMENT

Presure under foundation	=	44.00	kn./m^2. (nett)
	=	70.40	kn./m^2. (gross)
Moment	=	79.20	kn.m.
M/bd^2fcu	=	0.009	
z	=	523	m.m.
Ast	=	379	m.m.^2 / m.
Minimum percentage	=	.13% = 715	m.m.^2 / m.
Actual...T16 @ 200 c/c (Or equivalent mesh)	=	1010	m.m.^2 / m...Provided.

WHITECHURCH FILLING STATION, REAR COL, 5-2-92.

FOUNDATION DESIGN

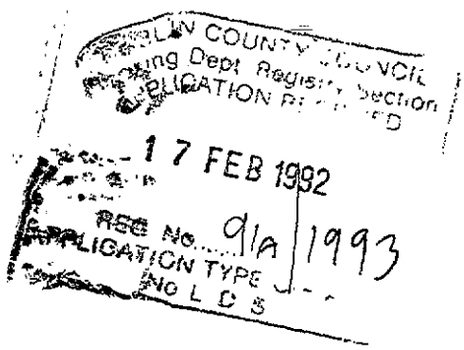
		CASE 1	CASE 2	CASE 3		
Max. Load	=	24.60	3.70	-10.00	KN.	
Moment X-X	=	14.82	14.82	0.00	KN.M.	
Moment Y-Y	=	0.00	0.00	0.00	KN.M.	
Base Length	=	1.80	1.80	1.80	M.	
Base Width	=	1.80	1.80	1.80	M.	
Base Thickness	=	0.60	0.60	0.60	M.	
Base Area	=	3.24	3.24	3.24	M^2.	
Base Z x-x	=	0.97	0.97	0.97	M^3.	
Base Z y-y	=	0.97	0.97	0.97	M^3.	
STRESSES UNDER BASE :						
Super Load	=	7.59	1.14	-3.09	KN./M^2.	
Soil	=	7.20	7.20	7.20	KN./M^2.	
Base	=	14.40	14.40	14.40	KN./M^2	
Wind x-x	=	15.25	15.25	0.00	KN./M^2.	
Wind y-y	=	0.00	0.00	0.00	KN./M^2.	
MAX. STRESSES :						
Wind x-x	=	44.44	37.99	18.51	KN./M^2	< 100
Wind y-y	=	29.19	22.74	18.51	KN./M^2	< 100
MIN. STRESSES :						
Wind x-x	=	13.95	7.50	18.51	KN./M^2	> 0
Wind y-y	=	29.19	22.74	18.51	KN./M^2	> 0
FACTOR OF SAFETY :						
O.T.M. x-x	=	14.82	14.82	0.00	KN.M.	
R.M. x-x	=	62.99	62.99	62.99	KN.M.	
F.O.S. x-x	=	4.25	4.25	ERR		> 1.5
O.T.M. y-y	=	0.00	0.00	0.00	KN.M.	
R.M. y-y	=	62.99	62.99	62.99	KN.M.	
F.O.S. y-y	=	ERR	ERR	ERR		> 1.5

FOUNDATION REINFORCEMENT

Presure under foundation	=	45.00	kn./m^2. (nett)
	=	72.00	kn./m^2. (gross)
Moment	=	29.16	kn.m.
M/bd^2fcu	=	0.003	
z	=	523	m.m.
Ast	=	139	m.m.^2 / m.
Minimum percentage	=	.13% = 715	m.m.^2 / m.
Actual...T16 @ 200 c/c (Or equivalent mesh)	=	1010	m.m.^2 / m...Provided.

OUTLINE SPECIFICATION

for



THE REDEVELOPMENT

of

WHITECHURCH PETROL FILLING STATION,
WHITECHURCH ROAD
DUBLIN.14.

for

CONOCO IRELAND LTD.

under the supervision of

RYAN O'BRIEN HANDY ASSOCIATES

December 1991

1 All work is to be carried out strictly in accordance with the Requirements and Regulations of the Local Authority, Building Bye-Laws, Draft Building Regulations and Fire Officer.

2 All material to be used to be of Irish manufacture and to I.S.S. where applicable and to be the best of their respective kind.

3 All Local Authority charges, i.e. water supply connections, drainage connections, - E.S.B. and Bord Telecom Charges should not be included in the tender. All such charges will be paid by the Client or be refunded by the Client to the Contractor should the Contractor pay same so as to avoid unnecessary delays.

4 It will be the responsibility of the Contractor to inform the Building Control Department with due notice when the foundation trenches, drains, etc., are ready for inspection.

5 The Contractor is to include for making good all surfaces where disturbed to match existing finishes after the completion of all works.

6 The Contractor is to include for removing all rubbish from the site and to leave the site in a neat and clean condition after the completion of all works.

7 As petrol and diesel oil are stored and dispensed on this site, safety is paramount. It is the responsibility of the Contractor to take all precautions necessary while carrying out the works. No welding, cutting of mesh, etc., is to be carried out in the vicinity of the underground tanks or petrol pumps. Contractor to consult with Architects and pipework specialists regarding the positions of existing pipework, electrical ducts, etc., before any excavation work is carried out. Contractor to include for careful excavation in these areas so as to avoid any damage to the pipelines, etc. Before any work commences, Contractor to agree the safety standards necessary with the Architects and Client.

8 Contractor to include for very careful excavation of ground surfaces etc., especially around the tanks and across the forecourt so as to avoid drainage to pipe lines, existing electrical ducts, air and water lines etc. It will be the responsibility of the Contractor to consult with the Client, Specialist Firms, Electrician and Architects regarding approx. positions and depths of these services before commencing this work.

9 Two existing single compartment underground petrol storage tanks are to be degassed and then removed from the ground and taken away from the site, in accordance with the Dangerous Substances Act. A specialist firm will carry out the degassing of the tanks and the removal of all existing underground pipework from same. The Fire Officer will be given due notice before this work is carried out.

10. 2 no. new underground petrol stroage tanks are to be installed where shown on drawing no: 2898/02 strictly in accordance with detail drawing no. 600/16C and in accordance with the Dangerous Substances Act and the Local Fire Officer's requirements. The fitting out and hydraulic water testing of these tanks, all pipework installation of gauges, self-services equipment, etc., are to be carried out by a specialist firm. The Fire Officer is to be informed when this work is being carried out so that he can inspect all stages of the work.

11 Contractor is to include for building all manhole chambers with 225mm solid concrete blocks (approx. size 900 x 750 x 950 mm deep). The walls and floors of these chambers to be rendered with 3 no. coats sand and cement. The rendering is to be finished neatly around all pipework and tank manlid.

12 The existing E.S.B. supply to the site is to be brought to the new building in an underground duct where a fuseboard, meteres, isolation switches, etc. will be installed in the store. All wiring on the site to the pumps, canopy, sign, lights, etc. are to be laid in 100mm diameter 'Wavin' ducts, 300mm minimum below ground level with adequate inspection chambers and drawpits. All electrical work is to be carried out strictly in accordance with the most recent E.S.B. Regulations and Requirements.

13 Contractor to include for taking a 25mm 'Hydrodare' connection from main supply to the new building. Include for 25mm full way stop valves on all connections. Pipes to be 450mm minimum below ground level.

14 Contractor to include for new planting areas and boundary walls as indicated on drawing no. 2898.

15 The new surface water drains on the site are to be installed in accordance with the layout drawing. Drains generally to be PVC ('Wavin' or similar) to sizes indicated and to be laid in trenches in straight lines to the required depth and falls. All joints are to be made in strict accordance with the manufacturer's instructions. All drains are to be laid on a minimum 150mm concrete (Grade 12) bed and encased in 150mm concrete

(Grade 12). The trenches are to be back-filled in layers, the material being carefully rammed to consolidate it, care being taken not to damage the pipes and joints. All drains to be water tested for leaks in accordance with CP301.

16 Manhole chambers on the surface water drains to be constructed with 225mm hollow concrete blocks rendered with 3 no. coats sand and cement waterproof rendering internally; half round channels formed with easy bends with sand and cement benching to sides. Provide and fit step irons in chambers if necessary. Provide and fit heavy duty cast iron covers and frames bedded in grease.

17 All A.J.'s to be PVC (Wavin or similar). Provide 250 x 250mm PVC square rising pieces up to ground level, and finish at top with 275 x 275mm galvanised cast iron covers and frames set in cement mortar and sealed in grease. All A.J.'s to be set on bed of concrete 150mm thick (concrete grade 12).

18 Contractor to supply and install PVC gulley traps where shown on drawings.

19 The Contractor is to supply and install a prefabricated Conder petrol interceptor trap in accordance with the Manufacturer's instructions, as per detail drawing no. 600/6, on the surface water drain where indicated on the drawings and at the car wash outfall. The Contractor is to supply and install 3 no. 100mm diam. p.v.c. vent pipes to the chambers of the interceptor which are to be joined together underground and 1 no. 100mm diam. p.v.c. pipe to be brought underground to an agreed position on site, up to ground level. A Specialist Firm will supply and fit the upright section above ground. The Contractor is to supply and fit 3 no. heavy duty manhole covers and frames over the 3 no. interceptor chambers.

20 The Contractor is to provide and install new 'ACO' drainage channels type C 250 and new 'ACO' silt gulleys where indicated on the drawings.

21 New foul drains indicated are to be installed strictly in accordance with the drawings 2898/04, and as described previously for Surface Water Drains.

22 Manhole chambers on foul drain to be constructed with 225mm solid concrete blocks rendered inside and outside with 3 no. coats sand and cement waterproof rendering, half round channels formed with easy bends with sand cement benching at 1:12 to sides. Provide and fit step irons to chambers as necessary and provide and fit heavy duty cast iron covers and frames, sealed in grease.

23 All A.J.'s to be installed as previously described in Clause No. 18.

24 Provide and fit PVC gulley traps where shown.

25 Contractor to include for 150mm minimum of well consolidated hardcore under all new ground surfaces.

26 The forecourt area under the canopy is to be surfaced with concrete paving setts laid in strict accordance with the manufacturer's instructions and specification.

27 The remainder of the forecourt, as indicated, 250mm deep reinforced concrete (grade 20) laid to falls as detailed on drawing no. 2898/04).

28 A new canopy is to be erected on site in position indicated on drawing. The canopy, with illuminated fascias on three sides, is to be fabricated, supplied and erected by a specialist firm. The canopy shall be constructed with R.H.S. steel stanchions, steel intermediate members with aluminium top sheeting, soffite sheeting and steel fascias.

29 The new shop/store building is to be built strictly in accordance with detail drawings nos. 2898/06, and Structural Engineer's drawings.

30 Foundations to be constructed as per details on drawing no. 2898/06, concrete grade 20. Footings to be reinforced top and bottom with A252 mesh.

31 New external front wall to be 400mm cavity wall with 100mm split fluted **WHITE** Forticrete Masonry blocks (400 range) outer leaf as per detail drawing, with matching **WHITE** Forticrete cill block details at plinth, around and over projecting window head band as shown with matching **WHITE** Forticrete parapet copings; 100mm cavity with 50mm rigid insulation board fixed against inner leaf with 100mm solid concrete block inner leaf to suit Forticrete modular dimensions (400 range). Carry round the split fluted face around

all window and door opes (to face of frames). Cavity wall ties to be used at no less than 4 no. per sq.m. with ties at openings, ensuring that all mortar droppings are cleaned off the ties and out fo the cavity.

32 All internal walls to be 225mm or 100mm solid concrete block as indicated.

33 All walls to be plastered internally with 12mm hardwall plaster and skim.

34 Roof constructed using two layers of 'Derbiqum S.P.' roofing membrane on a base layer of 30mm thick 'Korktherm' insulation on 'Nilperm' vapour barrier on 'Kingspan' ('See-form'), roof decking on 'Multibeam' purlins Ref. no: 65609 on 254 x 146 x 31 kg/m. universal beams, laid to fall.

35 All flashings generally to be No. 5 lead flashing.

36 Floors to consist of a levelling screed on 150mm thick concrete (grade 20) floor slab on 1000 gauge 'Visqueen DPM on 50mm sand blinding on 150mm well consolidated hardcore.

37 Include for 1000 gauge visqueen DPC's where shown on drawings.

38 Lintols generally to be prestressed concrete units, used strictly in accordance with manufacturer's instructions or as per details shown on the drawings.

39 Concrete beams at the front and sides of the building to be cast insitu (grade 30) as per detail on drawing no. 2898/06 + 600189 and in accordance with engineer's details and specification.

40 Front face of building to consist of aluminium framed shopfronts as shown. Entire shopfronts, including main door to be aluminium coated with white PVC or white syntha pulvin finish. Framing to be 'shopfront type' box section or similar. Glass in windows **AND** door to be 12.5mm laminated plated glass.

41 External doors and frames to be steel - Martin Roberts Guardian Standard doorsets. Hinges to be standard recessed BH1 - 100mm x 75mm x 26mm template drilled butt hinges - 3 hinges per door. Door to Store to have a PH73 panic bolt set and door to toilet to have a MKC 241 upright mortice cylinder sash lock.

42 Door and frame from shop to lobby to be standard 1 hour fire check door.

43 All other internal doors and frames to be standard flush plywood finished doors.

44 Include for providing and fitting 100 x 200mm selected wall tiles to a height of 1.65m around all walls in toilet and ventilated lobby. Wall tiles to be carried down to floor level.

45 Provide and fit 100 x 23mm skirtingboards around all walls in building except areas which have wall tiles, where the wall tiles are to be carried down to the floor.

46 Provide and fit 225 x 225mm air vents where shown.

47 Contractor to include for a suspended ceiling - 'Armstrong - Microlook Image - 600 x 600 x 17mm white tiles' in the shop area and 'Armstrong - Minuboard 600 x 600 x 17mm white tiles' in **ALL** other areas. Suspended ceilings to be supplied and installed by a specialist firm.

48 Provide and fit PVC soil and vent pipe where shown.

49 Rainwater gutters to be an approved 125mm aluminium gutter. R.W.P.'s to be 100mm diameter PVC.

50 The Contractor is to locate the existing water supply to the site. Include for bringing a 25mm hydrodare connection into the building to a water storage tank which is to be located in store.

51 Provide and fit an 80 gallon fibreglass storage tank (with overflow pipe) on iron angle bearers in Store - exact location to be decided on site. Include for insulating tank and encasing tank with removable timber sheetings. Include for ball cock mechanism and overflow pipe.

52 Contractor to include for the supply and fitting of 1 no. Vitreous china low level w.c. suite with overflow pipes and 1 no. 300 x 500mm (approx.) Vitreous china wash hand basin including 2 no. taps in the toilets.

53 Include for the supply and installation of 1 no. standard stainless steel sink and base unit with presses under.

54 Include for taking 1 no. 12mm spur for drinking water off rising main to the sink unit in the kitchen.

55 Include for the following fullway stop valves - 25mm on service entry to the building; 12mm on spur to sink unit, the 2 no. w.c.'s, the 2 no. cold water taps on w.h.b.'s.

56 Include for bringing 12mm supply pipes from the water storage tank to the w.c. the cold water taps on the w.h.b.'s and 2 no. electric undersink water heaters. The nominated Electrician will supply and fit undersink water heaters. As some undersink water heaters require connections from the rising main rather than the tank, Contractor should check with the Electrician before installing the pipework. Provide and fit 12mm pipes from undersink water heaters to hot taps at both w.h.b.'s and sink unit.

57 Dry powder fire extinguishers and 'No Smoking - Turn Off Engine' signs are to be provided on the forecourt as required by the Dangerous Substances Act and the Fire Officer's Requirements. The positions in which the petrol tanker will stand while filling the underground storage tanks must also be marked on the concrete apron.

58 All surfaces are to be made good after the completion of all works and all rubbish is to be carted away and the site left in a neat and clean condition.

RYAN O'BRIEN HANDY ASSOCIATES

December 1991

Dublin County Council Comhairle Chontae Atha Cliath **Planning Department**

Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

NOTIFICATION OF DECISION TO GRANT PERMISSION
LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT)ACTS 1963-1990.

Decision Order Number : P/ 0663 /92 Date of Decision : 13th February 1992

Register Reference : 91A/1993 Date Received : 18th December 1991

Applicant : Conoco Ireland Ltd.,

Development : Redevelopment of Jet Petrol Filling Station, to include a new shop/office/store building, replacement underground petrol storage tanks and alterations to existing canopy.

Location : Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

Floor Area : Sq.Metres

Time Extension(s) up to and including :

Additional Information Requested/Received : //

In pursuance of its functions under the above mentioned Acts,the Dublin County Council,being the Planning Authority for the County Health District of Dublin, did by Order dated as above make a decision to GRANT PERMISSION in respect of the above proposal.

Ryan O'Brien Handy Assoc.,
6 Percy Place,
Dublin 4.

NOTES

1. An appeal against the decision may be made to an Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.

2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:—

An Bord Pleanala,
Blocks 6 and 7,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

3. An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by the prescribed fee.

(a) An appeal against a decision relating to commercial development by the person by whom the application was made must be accompanied by a fee of £100 (one hundred Pounds).

"Commercial Development" means development for the purposes of any professional, commercial or industrial undertaking, development in connection with the provision for reward of services to persons or undertakings, or development consisting of the provision of two or more dwellings, but does not include development for the purposes of agriculture.

(b) An appeal other than an appeal mentioned at (a) above, including third party appeal must be accompanied by a fee of £50 (fifty pounds).

(c) A party to an appeal making a request to An Bord Pleanana for an Oral Hearing of an appeal must, in addition to the prescribed fee, pay to An Bord Pleanana a fee of £50 (fifty pounds).

(d) A person who is not a party to an appeal must pay a fee of £15 (fifteen pounds) to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

4. If the Council makes a decision to grant permission / approval and there is no appeal to An Bord Pleanala against this decision, PERMISSION / APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such an appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION / APPROVAL after the withdrawal.

5. Approval of the Council under the Building Bye-Laws must be obtained for new work and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced. Approval under the Building Bye-Laws is not applicable to garden walls and entrances etc. Approval under the Building Bye-Laws cannot be obtained in cases involving retention of works previously carried out.

Dublin County Council Comhairle Chontae Atha Cliath **Planning Department**

Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
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Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

Reg.Ref. 91A/1993
Decision Order No. P/ 0663 /91
~~Page No: 0002~~

Subject to the Conditions on the attached Numbered Pages.

NUMBER OF CONDITIONS:- ..11....ATTACHED.

Signed on behalf of the Dublin County Council.....
for Principal Officer

Date:.13/2/92.....

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Reg.Ref. 91A/1993
Decision Order No. P/ 0663 /91

C O N D I T I O N S / R E A S O N S

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto.
REASON:To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That before development commences, approval under the Building Bye- Laws be obtained and all conditions of that approval be observed in the development.
REASON:In order to comply with the Sanitary Services Acts, 1878-1964.

03 That no flag poles or bunting shall be erected on the site without the prior approval of the Planning Authority.

03 REASON: In the interest of the proper planning and development of the area.

04 Prior to commencement of development to applicant is to ascertain the requirements of the Chief Fire Officer. The applicant is to strictly adhere to these reguirments in the development.

04 In the interest of safety and the avoidance of fire hazard.

05 Prior to commencement of development the applicant is to ascertain the requirements of the Supervising Environmental Health Officer. The applicant is to strictly adhere to these reguirements in the development.

05 In the interest of public health.

06 That no L.P.G. tanks are to be provided on site without the prior approval of the Planning Authority.

06 REASON: In the interest of the proper planning and development of the area.

07 That the height of the proposed illuminated sign at the front of the site is not to exceed the height of the canopy.

07 REASON: In the interest of the proper planning and development of the area.

08 That the footpath at the entrance is to be provided in accordance with the requirements of the Area Engineer, Roads Maintenance Section of Dublin County Council.

08 REASON: In the interest of the proper planning and development of the

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area.

09 That the level of illumination at the site is to be in accordance with the requirements of the Roads Department. In this regard the level of illumination and orientation of any lamps may be reviewed at any time by Dublin County Council. Any required alterations requested by Dublin County Council are to be carried out at the applicants expense.

09 REASON: In the interest of the proper planning and development of the area.

10 That the proposed external door from the store is to be omitted from the proposed development.
REASON: The door opens directly onto a laneway used by the adjoining factories. The location of a door in this position would be prejudicial to public safety.

11 That the water supply and drainage arrangements, including the disposal of surface water, are to be strictly in accordance with the requirements of the Sanitary Services Department.

11 REASON: In order to comply with the Sanitary Services Acts, 1878-1964.

NOTE 1: The applicant should note that the proposed development must adhere to the reguirements of the Dangerous Substances Act, 1970.

NOTE 2: The applicant should note that the provision of the Water Pollution Act must be adhered to.

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Dublin County Council Comhairle Chontae Atha Cliath **Planning Department**

Building Control Department,
Liffey House,
Tara Street,
Dublin 1.
Telephone:773066

Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

Register Reference : 91A/1993 Date : 19th December 1991

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990

Dear Sir/Madam,

DEVELOPMENT : Redevelopment of Jet Petrol Filling Station, to include a new shop/office/store building, replacement underground petrol storage tanks and alterations to existing canopy.

LOCATION : Jet Petrol Filling Station, Whitechurch Rd., Rathfarnham

APPLICANT : Conoco Ireland Ltd.,

APP. TYPE : PERMISSION

With reference to the above, I acknowledge receipt of your application received on 18th December 1991.

Yours faithfully,

.....

for PRINCIPAL OFFICER

Ryan O'Brien Handy Assoc.,
6 Percy Place,
Dublin 4.

Dublin County Council
Comhairle Chontae Atha Cliath

Planning Application Form/ Bye - Law Application Form

PLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.

1. Application for Permission [X] Outline Permission [ ] Approval [ ] Place ✓ in appropriate box.
Approval should be sought only where an outline permission was previously granted. Outline permission may not be sought for the retention of structures or continuances of uses.

2. Postal address of site or building: Jet Petrol Filling Station,
(If none, give description sufficient to identify) Whitechurch Road, Rathfarnham, Dublin 16.

3. Name of applicant (Principal not Agent): Conoco Ireland Ltd.

Address: Conoco House, Deansgrange, Co. Dublin Tel. No: 2896644

4. Name and address of person or firm responsible for preparation of drawings: Ryan O'Brien Handy Associates
6 Percy Place, Dublin 4. Tel. No: 680899

5. Name and address to which notifications should be sent: Ryan O'Brien Handy Associates,
6 Percy Place, Dublin 4.

6. Brief description of proposed development: Redevelopment of existing petrol filling station, including shop/store building, canopy, pump islands, storage tanks.

7. Method of drainage: Mains drainage 8. Source of Water Supply: Rising Main

9. In the case of any building or buildings to be retained on site, please state:-
(a) Present use of each floor or use when last used: Not applicable
(b) Proposed use of each floor: Not applicable

DUBLIN 14 — Planning permission is being sought by Conoco Ireland Ltd. for the redevelopment of Jet Petrol Filling Station, Whitechurch Road, Rathfarnham, to include a new shop/office/store building, replacement underground petrol storage tanks and alterations to the existing canopy.

Irish Sales 4/12/91

10 Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof? No

11.(a) Area of Site: 770.00 Sq. m.

(b) Floor area of proposed development: 97.20 Sq. m.

BYE LAW AP

(c) Floor area of buildings proposed to be retained within site: N/A Sq. m.

12. State applicant's legal interest or estate in site (i.e. freehold, leasehold, etc.): Freehold

13. Are you now applying also for an approval under the Building Bye Laws? Yes [ ] No [✓] Place ✓ in appropriate box. 270.10 18/12

14. Please state the extent to which the Draft Building Regulations have been taken in account in your proposal: See attached notice. N54140

15. List of documents enclosed with application: Newspaper notice, 4 copies of specification, location map, Drawing nos. 2898/01,02,03,04,06. 600/6,16C,37,89. 3200/201,202, 207.

16. Gross floor space of proposed development (See back): 97.20 Sq. m.

No of dwellings proposed (if any): N/A Class(es) of Development: 8 & 4

Fee Payable £: 270.10 Basis of Calculation: Planning Class 8 - £100, Class 4 - £97.20 x £1.75 = £170.10

If a reduced fee is tendered details of previous relevant payment should be given

Signature of Applicant (or his Agent): Noel Doyle. Date: 13th December 1991

FOR OFFICE USE ONLY

Application Type: P
Register Reference: 91A/1993
Amount Received £: 1.56.4
Receipt No: 2210
Date:

RECEIVED
18 DEC 1991
REG. SEC.

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) REGULATIONS 1977 to 1984.

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) Acts 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications Sales Office, Sun Alliance House, Molesworth Street, Dublin 2.

1. Name and Address of applicant.

2. Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.

3. The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.

   (a) The address of the structure or the location of the land.
   (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
   (c) The name of the applicant.

   NB. Applications must be received within 2 weeks from date of publication of the notice.

4. Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1: 2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.

5. In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are:
   (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.

   (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.

   (ii) A layout and a survey plan of each floor of any structure to which the application relates.

   (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.

6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

SEPTIC TANK DRAINAGE: Where drainage by means of a septic tank is proposed, before a planning application is considered, the applicant may be required to arrange for a trial hole to be inspected and declared suitable for the satisfactory percolation of septic tank effluent. The trial hole to be dug seven feet deep at or about the site of the septic tank. Septic tanks are to be in accordance with I.I.R.S. S.R. 6:75.

INDUSTRIAL DEVELOPMENT:

The proposed use of an industrial premises should, where possible, be stated together with the estimated number of employees, (male and female). Details of trade effluents, if any, should be submitted.

Applicants to comply in full with the requirements of the Local Government (Water Pollution) Act,1977 in particular the licencing provisions of Sections 4 and 16.

SUMMARY OF CLASSES OF DEVELOPMENT/ FEES

CLASS NO.	DESCRIPTION	FEE
1.	Provision of dwelling - House/Flat.	£32.00 each.
2.	Domestic extensions/other improvements.	£16.00 each.
3.	Provision of agricultural buildings (See Regs.)	£40.00 minimum.
4.	Other buildings (i.e. office, commercial, etc.)	£ 1.75 per sq.metre (Min. £40.00).
5.	Use of land (Mining, deposit or waste).	£25.00 per 0.1 ha. (Min. £250.00).
6.	Use of land (Camping, parking, storage).	£25.00 per 0.1 ha. (Min. £40.00).
7.	Provision of plant/machinery/tank or other structure for storage purposes.	£25.00 per 0.1 ha. (Min. £100.00).
8.	Petrol filling station.	£100.00.
9.	Advertising structures.	£ 10.00 per sq. m. (Min. £40.00).
10.	Electricity transmission lines.	£ 25.00per 1,000m.(Min. £40.00).
11.	Any other development.	£ 5.00 per 0.1ha. (Min. £40.00).

Cheques etc. should be made payable to: Dublin County Council.

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls.

For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.

RECEIPT CODE

COMHAIRLE CHONTAE ÁTHA CLIATH
DUBLIN COUNTY COUNCIL
46/49 UPPER O'CONNELL STREET,
DUBLIN 1.

PAID BY
CASH
CHEQUE ✓
M.O.
B.L.
I.T.

N 54140

£270.10

Received this 18th day of December 19 91

from Ryan O'Brien Handy Assocs.,
6 Percy Place
D.4

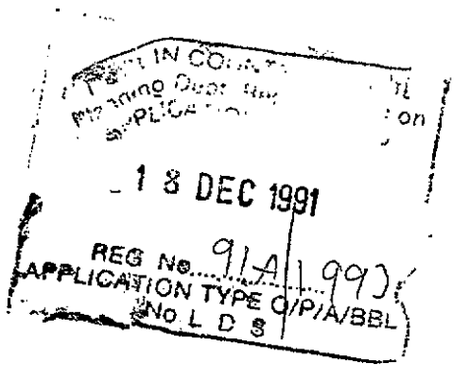
the sum of two hundred and seventy ——— Pounds

for ——— Pence, being fee for
planning application at Whitechurch Rd.
Class 8

Nadine Deane Cashier

S. CAREY
Principal Officer

4



ROBH
ARCHITECTS & DESIGNERS

Ryan
O'Brien
Handy
Associates

6 Percy Place
Dublin 4

Telephone 680 899
Facsimile 680 089

DRAFT BUILDING REGULATIONS

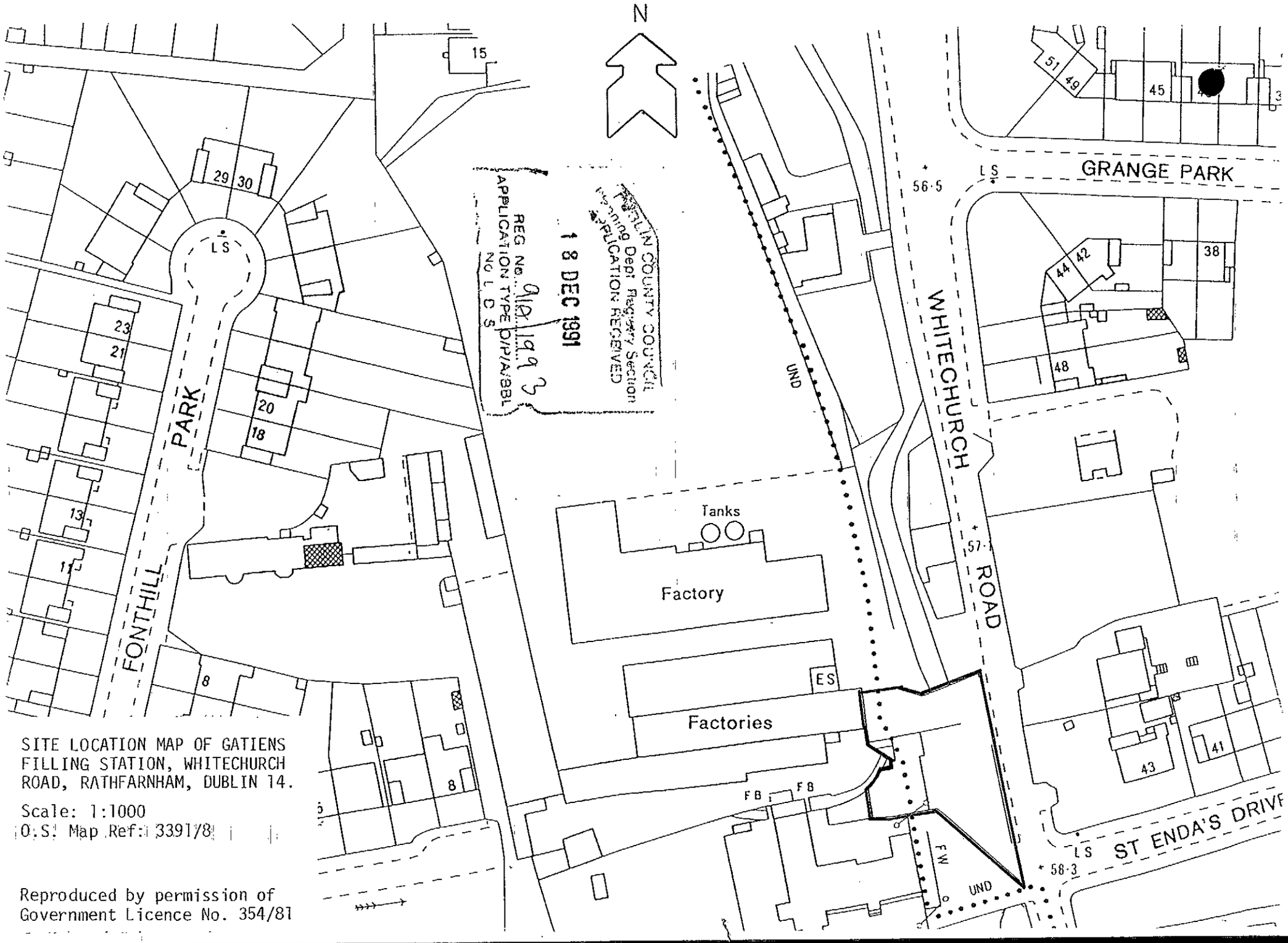
It is the practise of this office to take account of the Draft Building Regulations as issued by the Minister for the Environment in the design of buildings but this is not to be interpreted as a guarantee that the provision of the Draft Building Regulations have been implemented in full or in any particular respect in this proposal.

RYAN O'BRIEN HANDY ASSOCIATES
Architects & Designers,
6 Percy Place,
Dublin 4.

111 Wellington Street
Luton LU1 5AF

Partners
Denis Handy
DIP ARCH MRIAI MSDI
John McCarthy
DIP ARCH MRIAI MSDI

Associates
Denis Whelan
RIAI (TECH)
Kenneth McEwan
BSC (HONS)
Noel Doyle



SITE LOCATION MAP OF GATIENS FILLING STATION, WHITECHURCH ROAD, RATHFARNHAM, DUBLIN 14.

Scale: 1:1000
O.S. Map Ref: 3391/8

INSTALLATION INSTRUCTIONS FOR INTERCEPTOR TANK.

The interceptor must be handled with care and not subjected to impact or contact with sharp projections. Inspect for damage before installation.

1. Mark out the excavation area, leaving a minimum clearance of 250 mm to all sides.

2. Excavate a hole to a minimum depth of 1133 mm below the level of the outlet invert.

3. Pour concrete (Grade 20) base to a depth of 150 mm, minimum, ensuring that the surface is smooth and level, at 983 mm below the outlet invert. Allow the concrete to set before proceeding further.

4. Carefully lower the Interceptor onto the base and level to correct inverts. Align inlet and outlet with drain runs, checking inlet is at the correct end.

5. Remove discs from the air vent spigots and half fill each tank with clean water* to ensure that there is no movement when the concrete surround is poured. The Interceptor must remain at all times square and level.

6. Pour the concrete (Grade 12) to underside of inlet and outlet spigots, allowing sufficient clearance for pipe connection. Connect all pipework and seal.

7. Continue to pour the concrete to a depth of 230 mm above the shoulder of main tanks and allow time for initial set.

8. Remove the protective covers from upstands at pre-cut marks with a fine saw and trim excess material down to the top of the concrete.

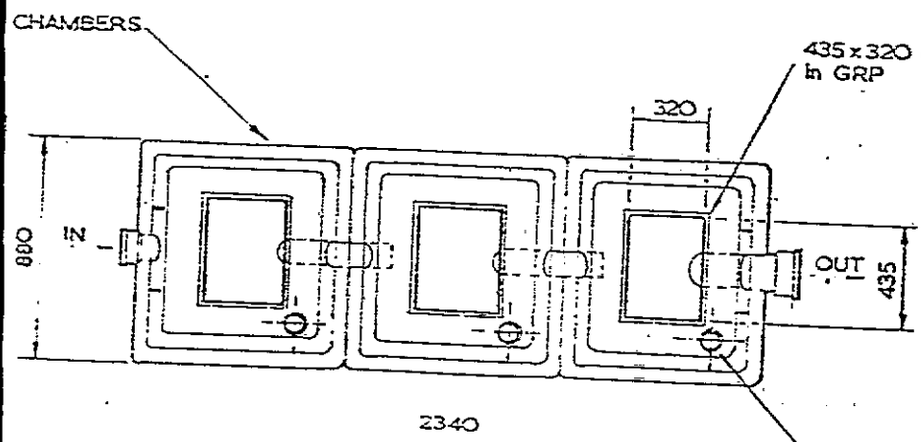
9. Replace interceptor protective covers onto the upstands. Build up manhole chambers to the required level. Manholes formed with solid concrete blocks (to I.S.20) bedded in gauged mortar and rendered both sides with 2 no. coats of sand/cement plaster, finished smooth.

10. Top up interceptor with clean water to correct level.

11. Position heavy duty manhole covers (to B.S.497: 1976) square and level. Bed frame in cement sand ready for laying finished surface.

IMPORTANT

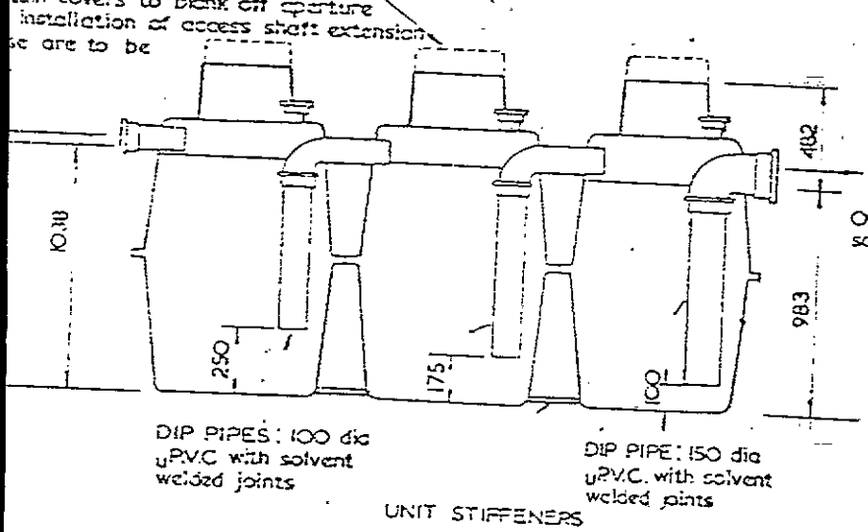
***Interceptor only to be filled with clean water when in position.**



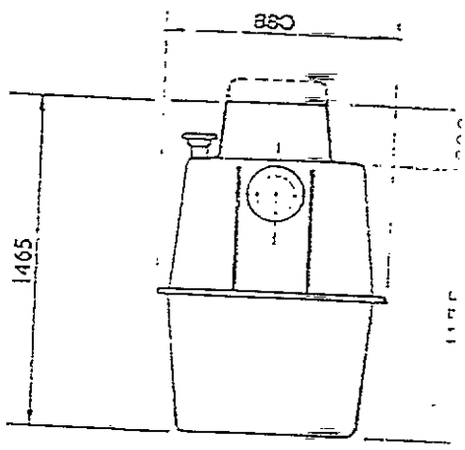
PLAN

VENTS: 75 dia uPVC. sockets: standard arrangement shown. Alternative positions available. Vent pipes must be run separately to above ground level to prevent by-passing should a blockage occur

ND covers cut off on site at
t marks after installation of
d surrounding concrete has
ain covers to blank off aperture
installation of access shaft extension
e are to be



SECTION



ELEVATION

Ryan O'Brien Handy Associates
Architects & Designers

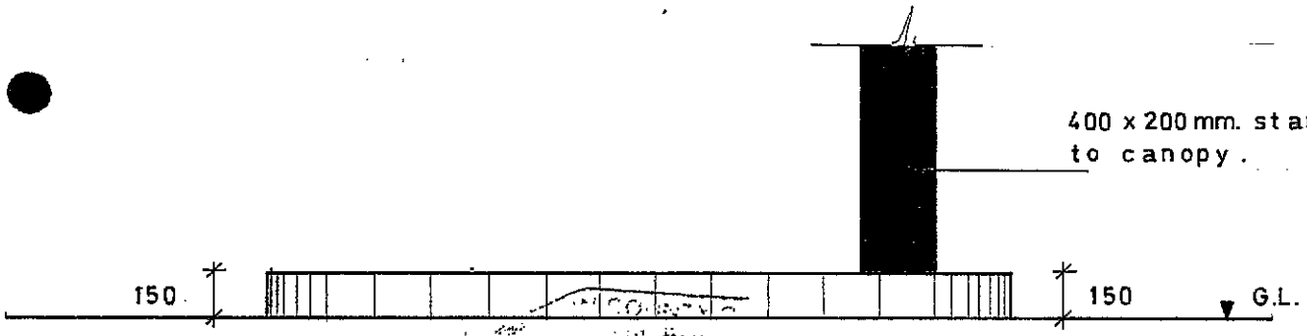
38 Percy Place, Dublin 4 (01) 680661/68089

Job Title

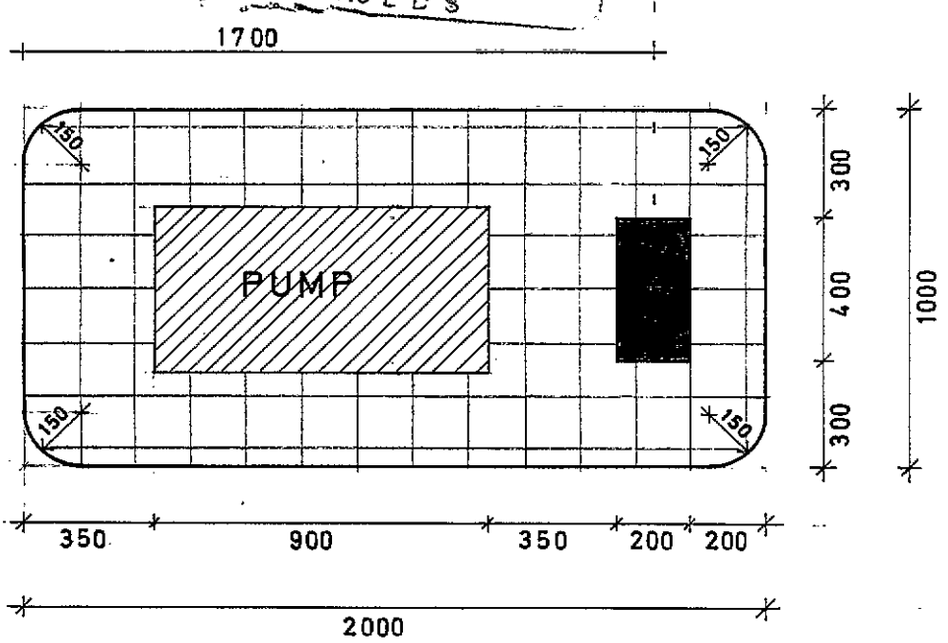
Drawing title: Petrol Interceptor.

Date May 1989 Scale

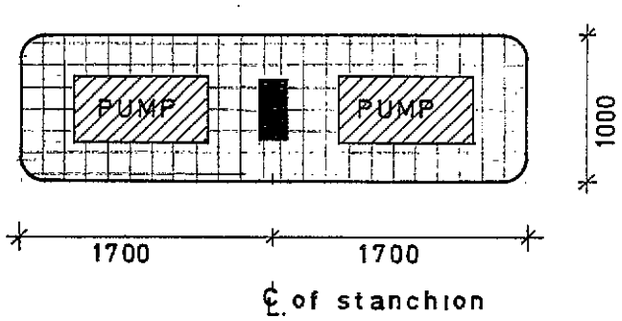
Drawing no: 600/6.



ELEVATION (scale 1:20)



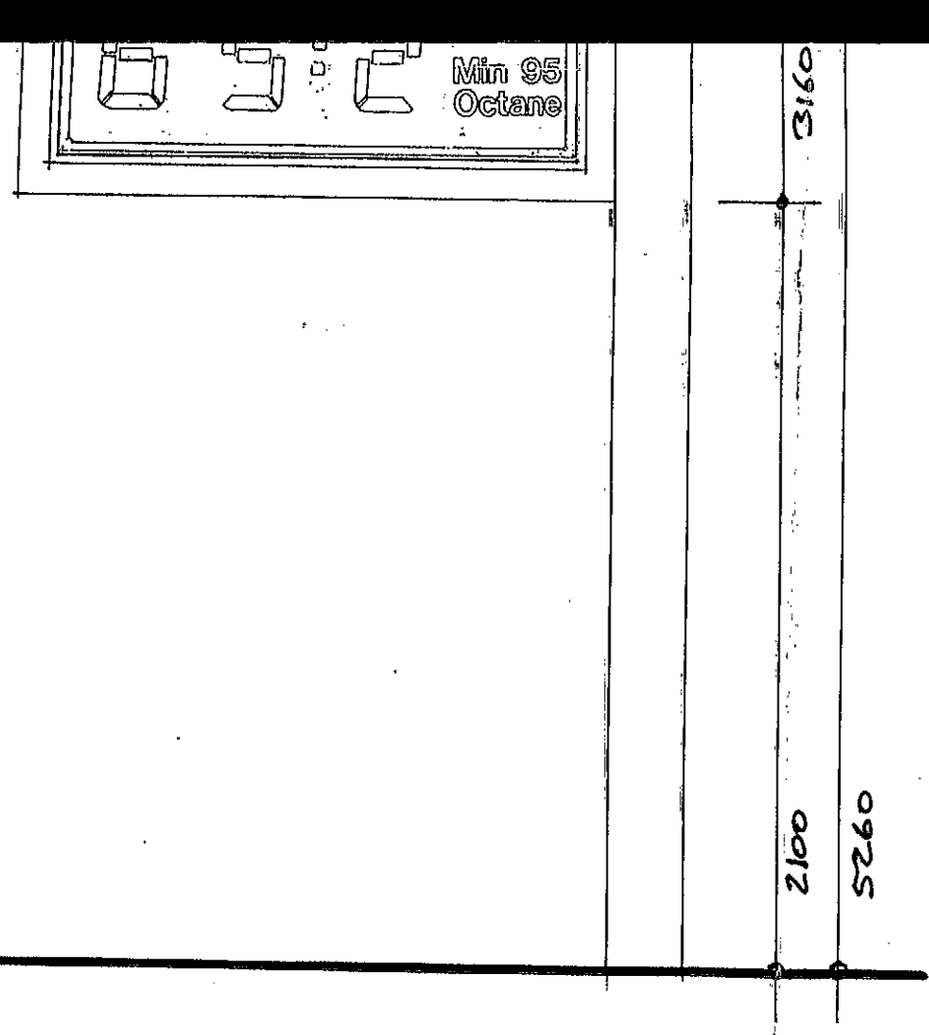
SINGLE PUMP ISLAND (scale 1:20)



DOUBLE PUMP ISLAND (scale 1:50)

Ryan O'Brien Handy Associates
Architects & Designers
38 Percy Place, Dublin 4 (01) 680661/680899

Job Title CONOCO
Drawing title PUMP ISLAND DETAILS
Date —— Scale as shown.
Drawing no. 600/37.



ELEVATION

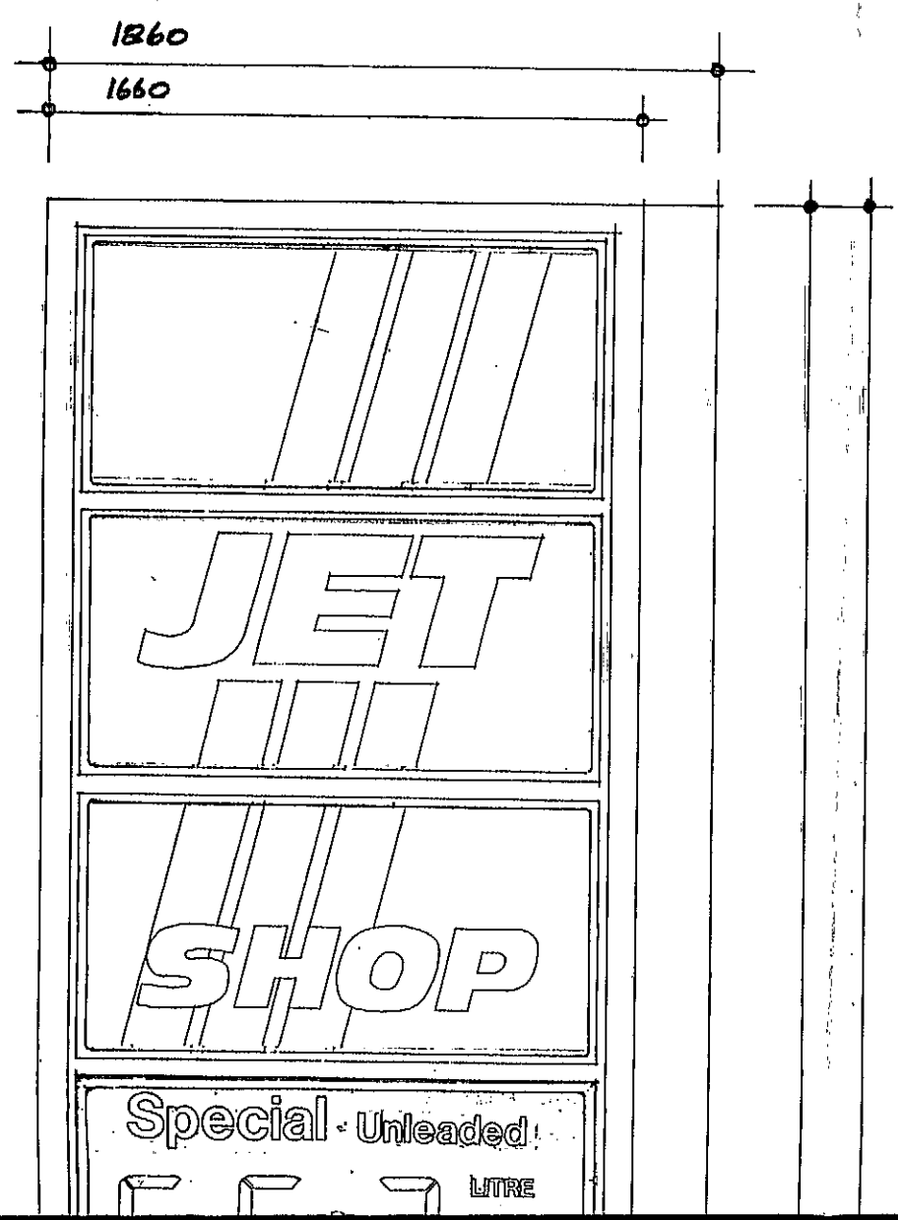
THIS DRG. TO BE READ IN CONJUNCTION WITH DRG. NOS, 3220/202 & 207

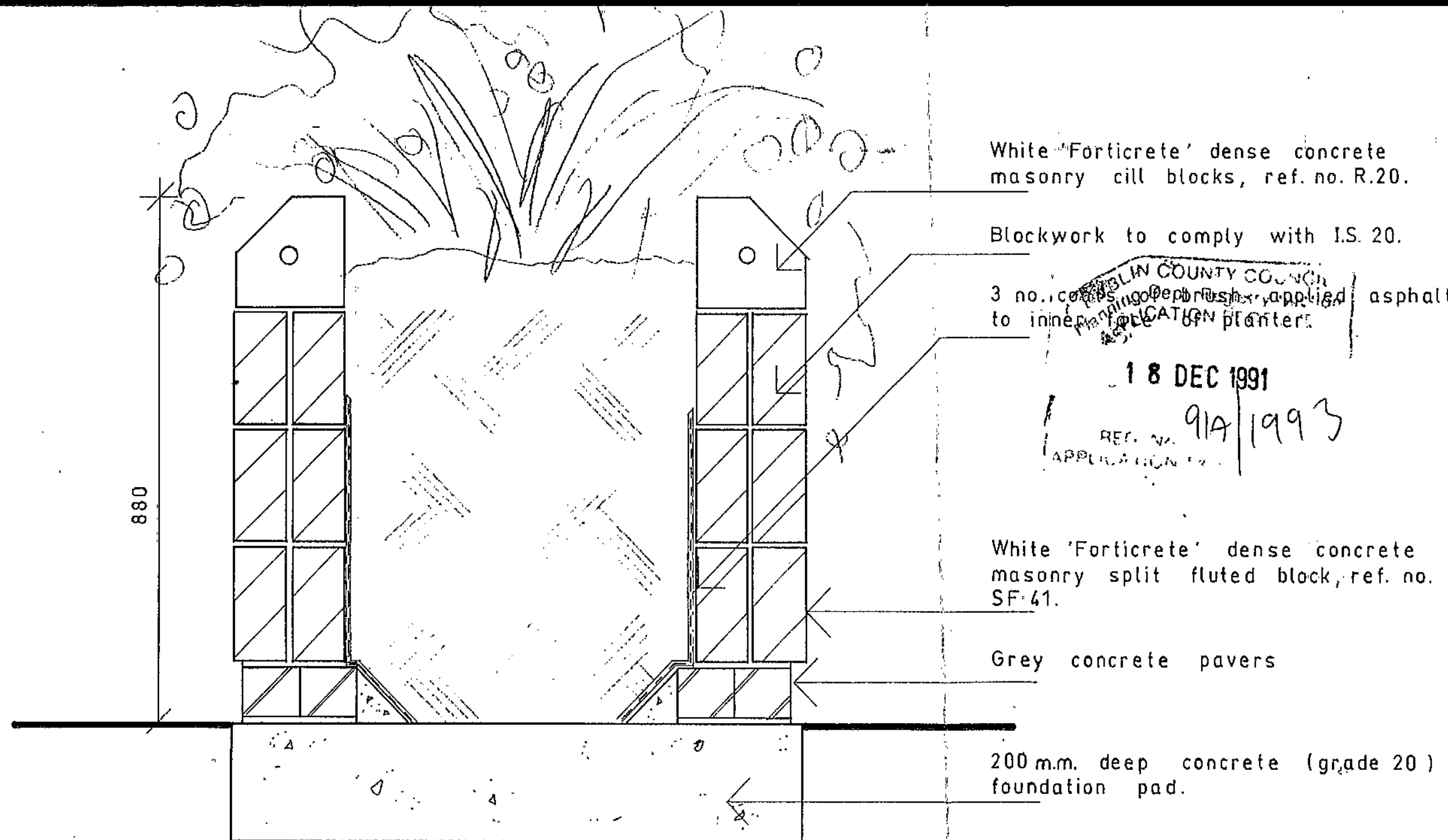
NEW JET IDENTITY

I.D. POLE SIGN:
ELEVATION:
Scale: 1:20
Date: MAR. '91.
Drg. No: 3220/201

JET

ROBH
ARCHITECTS & DESIGNERS
Ryan
O'Brien
Handy
Associates
6 Percy Place
Dublin 4
Telephone 680 899
Facsimile 680 089


1860
1660
JET
SHOP
Special - Unleaded
LITRE



DUBLIN COUNTY COUNCIL
PLANNING APPLICATION
18 DEC 1991
REG. NO. 91A/1993

SECTION A-A

CONOCO

Revisions:

Date: Nov. '91

Scale: 1:10 + 1:20

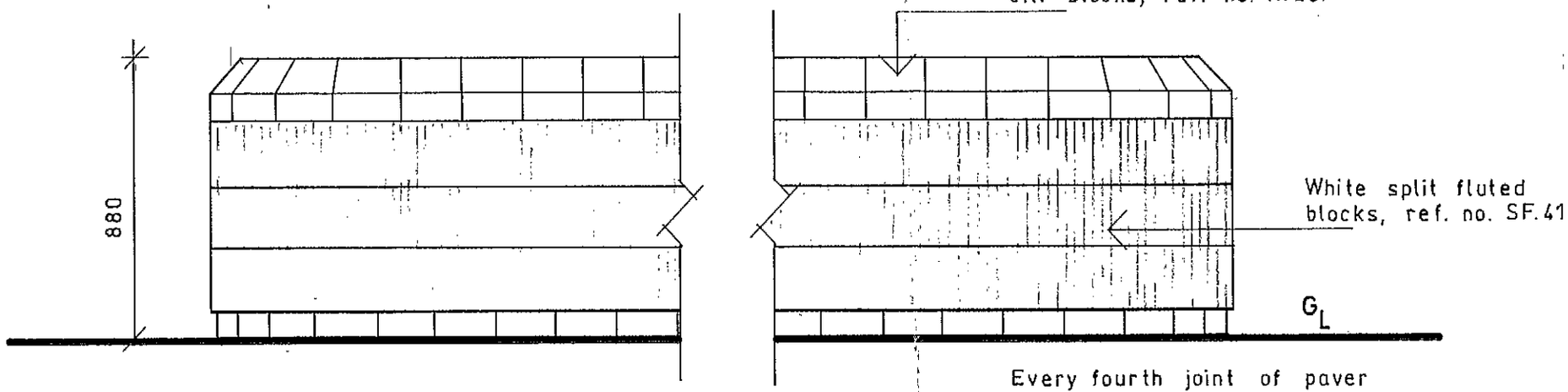
Use only figured dimensions.

Drawing Copyright ©

Planter Detail

Drawing no.: 3220/114.A.

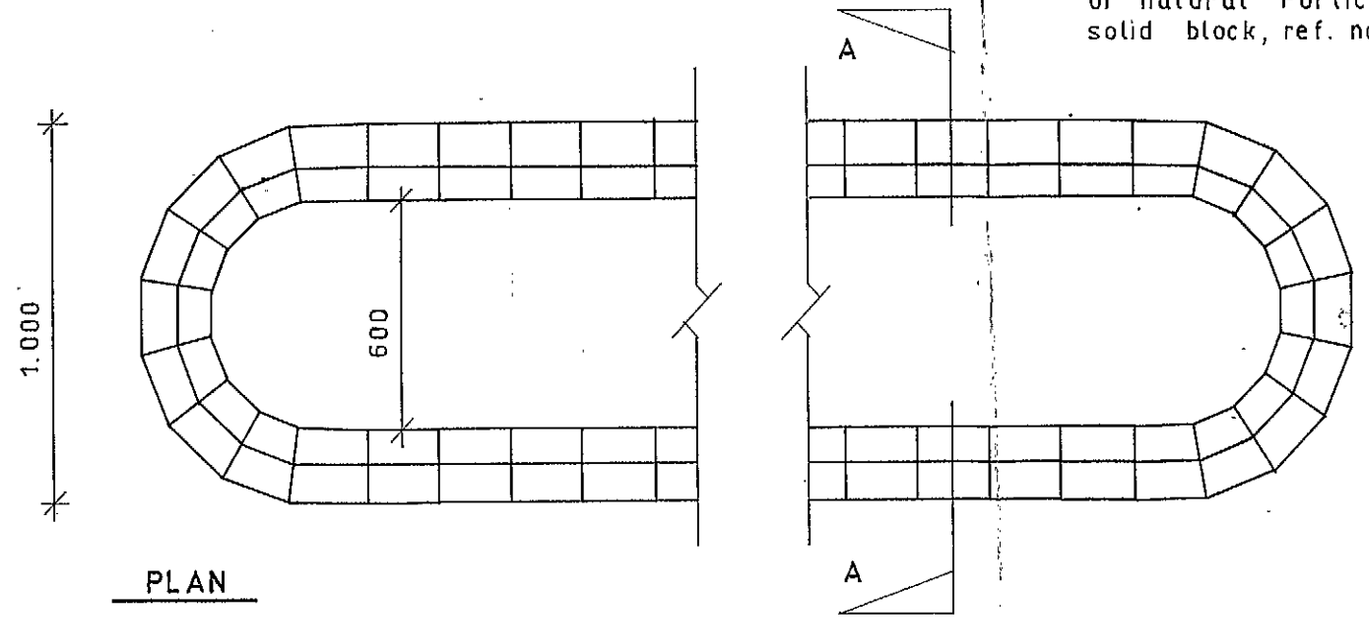
ROBH
ARCHITECTS & DESIGNERS
Ryan
O'Brien
Handy
Associates
6 Percy Place
Dublin 4
111 Wellington Street
Luton LU1 5AF
Telephone 680 899
Facimile 680 089



ELEVATION

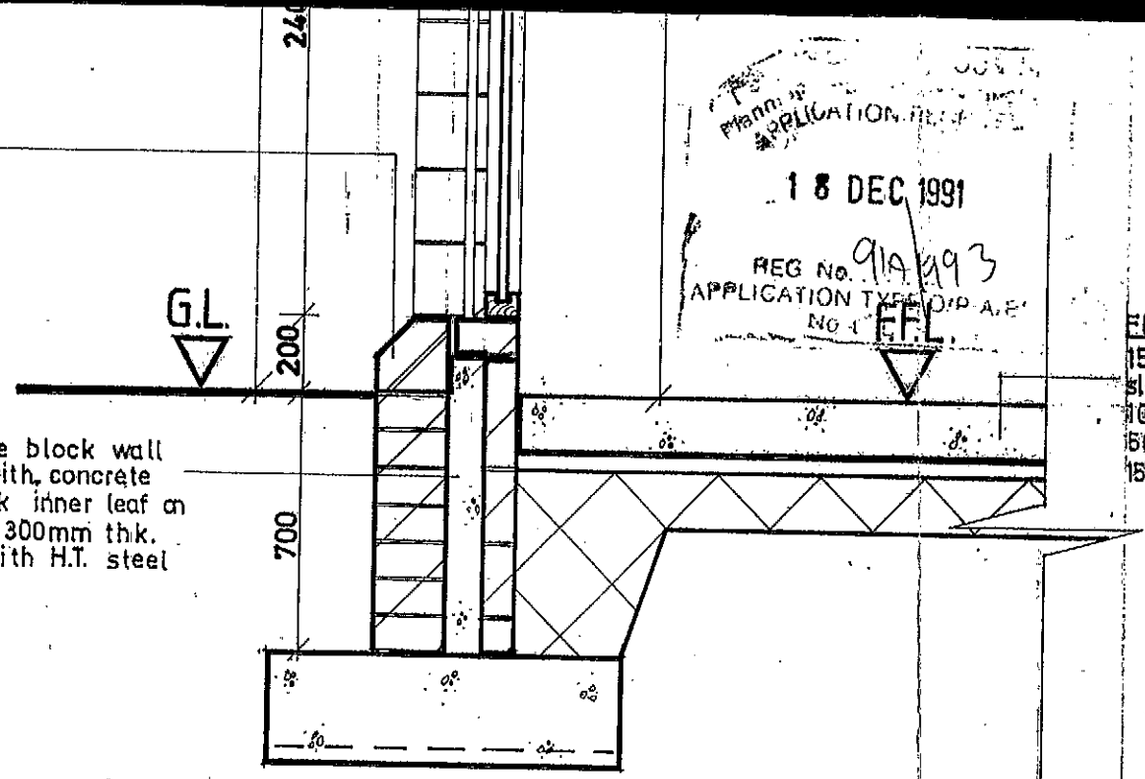
Every fourth joint of paver course to be left open

Note:- Inner face of planter to be of natural 'Forticrete' smooth masonry solid block, ref. no. K.1.



PLAN

'Forticrete cill block'



Rising walls
215mm thk. solid concrete block wall with 100mm cavity filled with concrete (grade 10) with 100mm block inner leaf on concrete foundations 1000x300mm thk. (grade 20) reinforced with H.T. steel mesh ref. B 283.

Floor
150mm thk. concrete (grade 20) floor slab on
1000 gauge 'visqueen' dpm on
50mm sand blinding on
150mm well compacted hard core

NOTE
This drawing should be read in conjunction with the relevent engineers details and calculations, as the structural steelwork may vary for individual buildings.

Ryan O'Brien Handy Associates
Architects & Designers

38 Percy Place, Dublin 4. 680899 Fax 680089
111 Wellington Street, Luton LU1 5AF (0582)401492

Project **conoco**

Revisions

Date Dec. 89

Scale 1:20

Standard wall section

Drawing no. 600/89

JDH 18196

'Forticrete' dense concrete masonry coping block on d.p.c.

External walls

100mm thk 'Forticrete' split fluted' block external leaf.
100mm cavity with 50mm insulation
100mm solid concrete block inner leaf

'Forticrete cill block' on d.p.c.

In-situ R.C. lintol to engineers details and spesification.

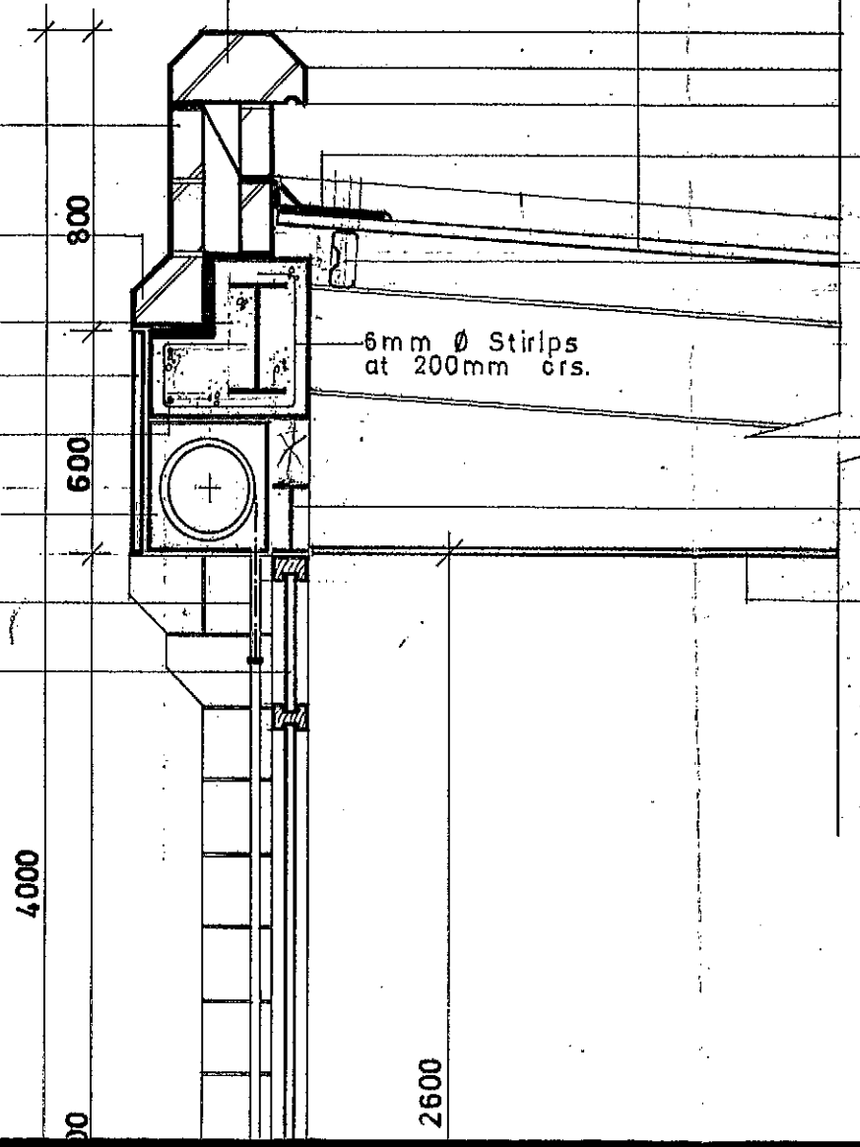
Non illuminated pressed aluminium sign.

2 no. 12 mm Ø Reinforcing bars

Roller shutter supplied and installed by a specialist firm.

Roller shutter track

Aluminium window frames supplied and fitted by specialist firm, with 12mm glass to all windows.



Roof

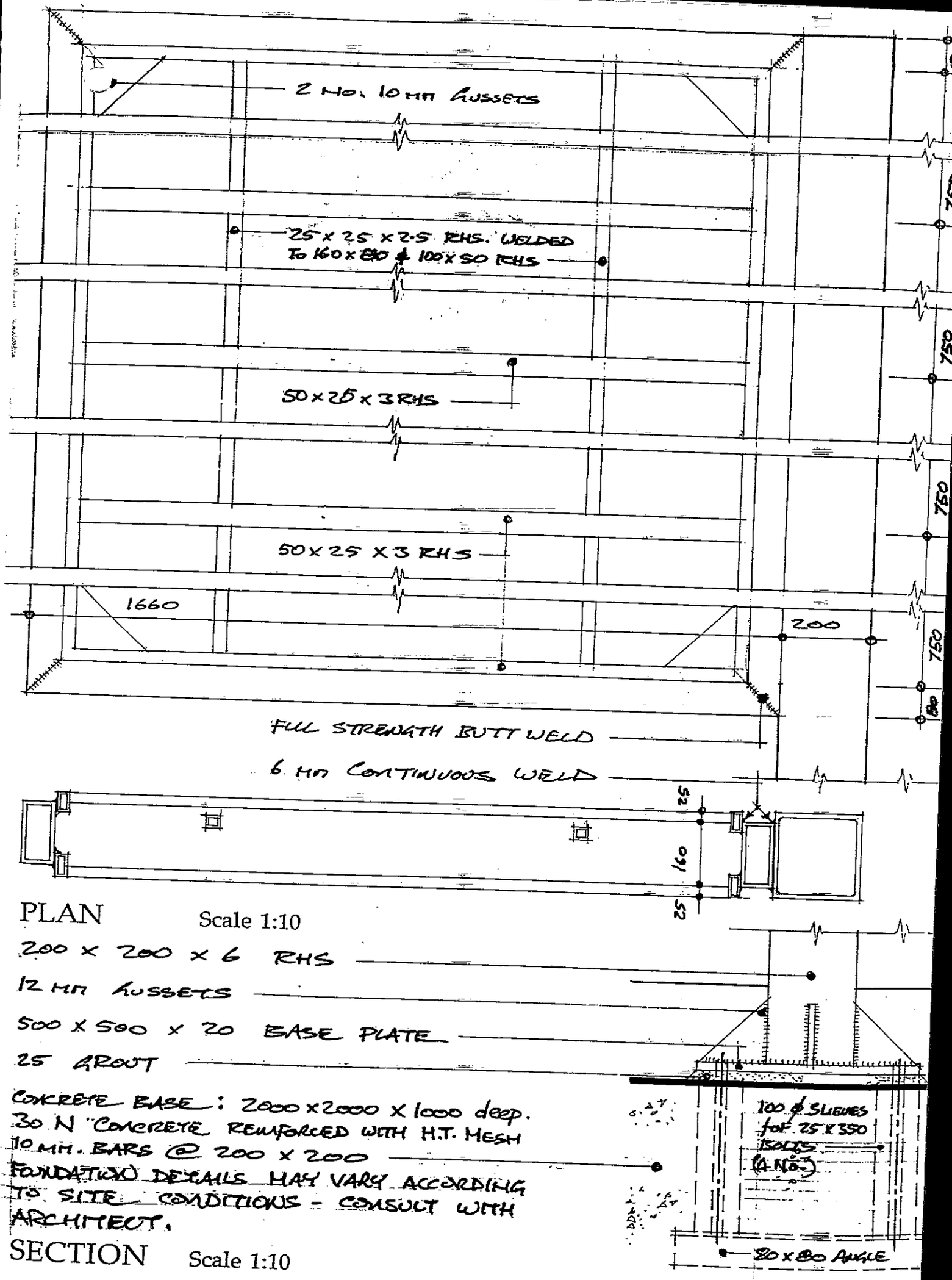
85mm 'Sec form' insulated roofing panels on multibeam purlins ref 65069 on Universal Beams 305x165x54 kg/m laid at 4.5m crs.

No.5 lead flashing dressed over timber angle fillet.

65069 multibeam purlin

178 x 102 x 21 k.g R.S.J.

Suspended ceiling supplied and fitted by a specialist firm.



PLAN Scale 1:10

200 x 200 x 6 RHS

12 mm GUSSETS

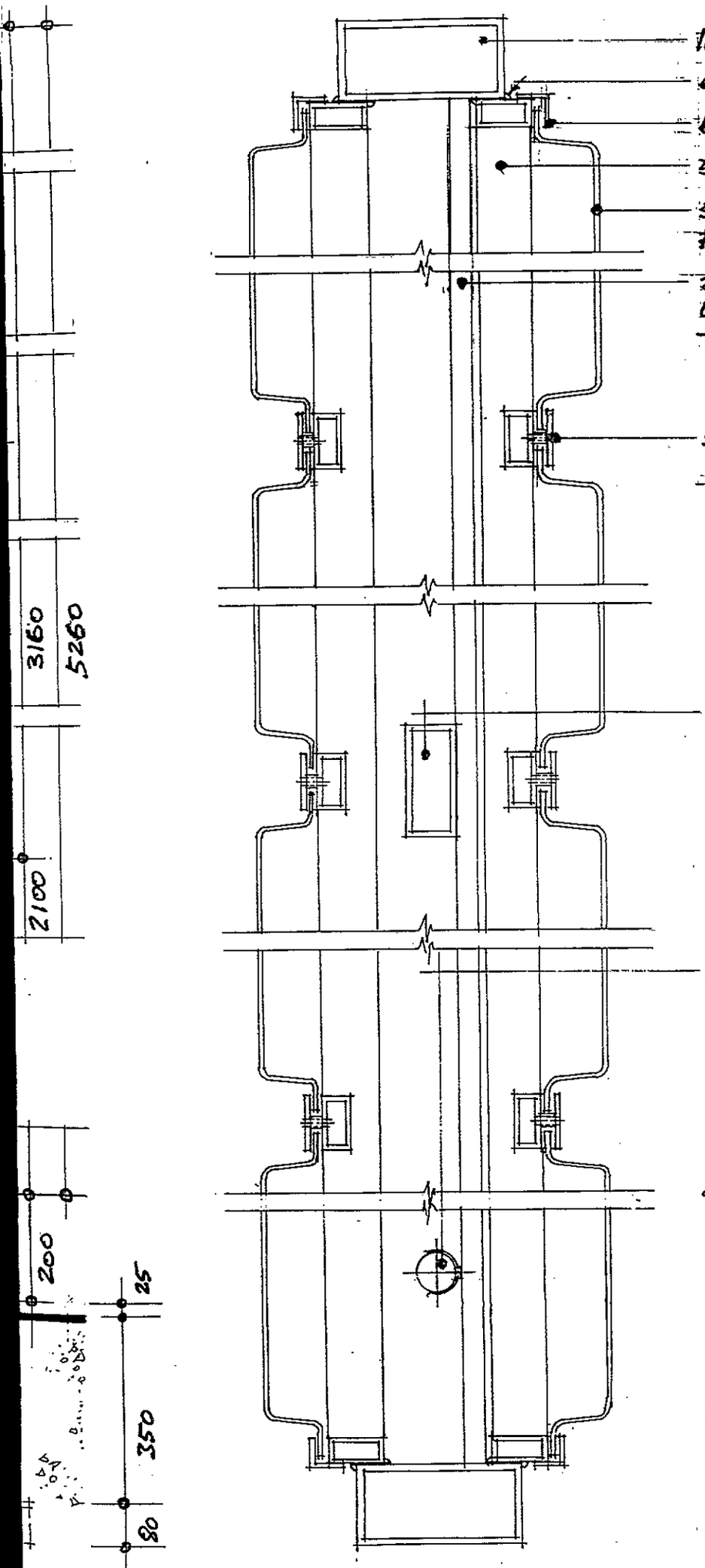
500 x 500 x 20 BASE PLATE

25 GROUT

CONCRETE BASE: 2000 x 2000 x 1000 deep. 30 N CONCRETE REINFORCED WITH H.T. MESH 10 mm. BARS @ 200 x 200

FOUNDATION DETAILS MAY VARY ACCORDING TO SITE CONDITIONS - CONSULT WITH ARCHITECT.

SECTION Scale 1:10



SECTION Scale 1:5

THIS DRG. TO BE READ IN CONJUNCTION WITH DRG. NOS. 3220/201, 207

NEW JET IDENTITY

I.D. POLE SIGN: SECTIONS

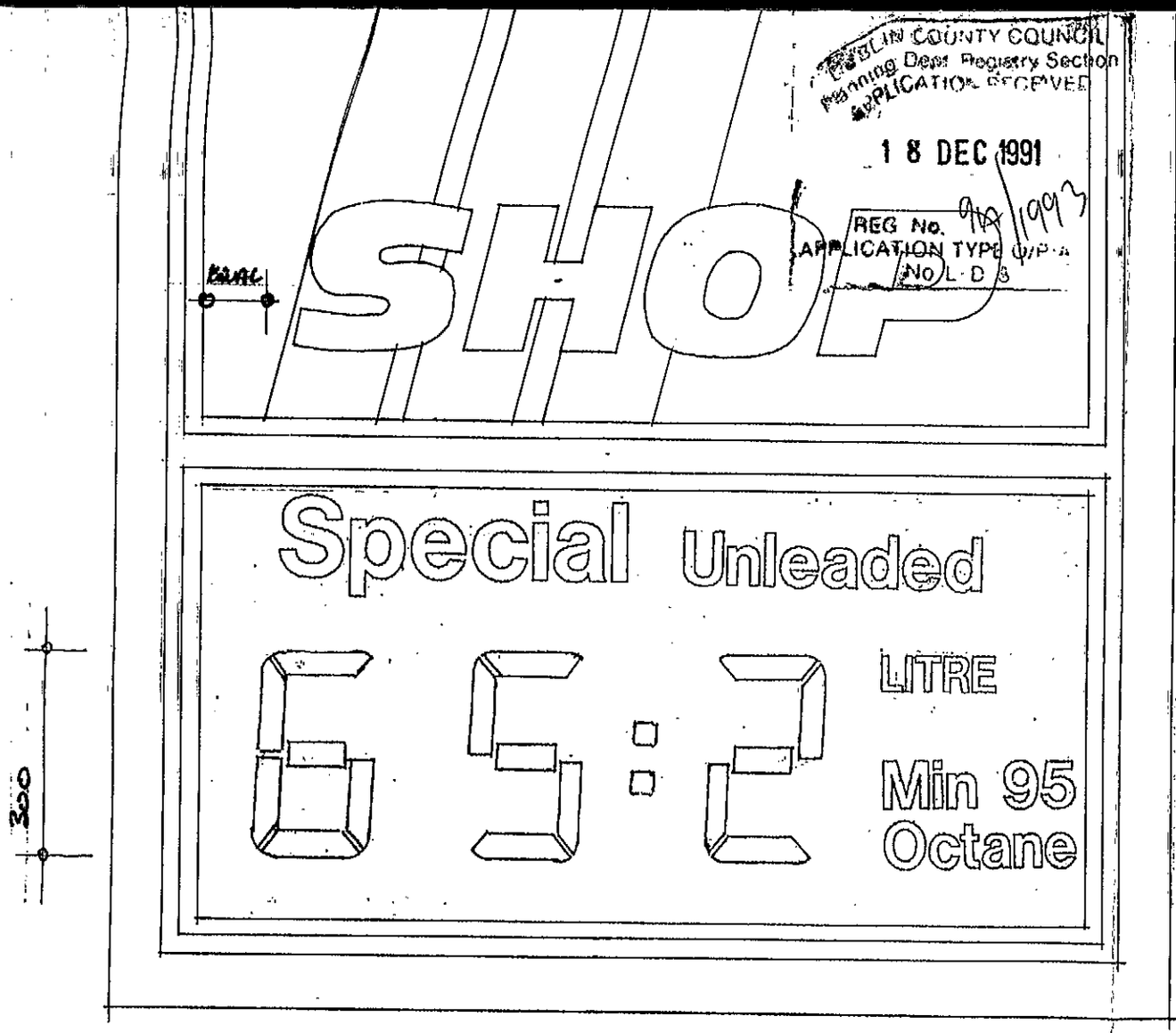
Scale: AS SHOWN

Date: MAR. '91

Drg. No: 3220/202

JET

ROBH
ARCHITECTS & DESIGNERS
Ryan
O'Brien
Handy
Associates
6 Percy Place
Dublin 4
Telephone 680 899
Facsimile 680 089



ELEVATION

TYPEFACE:
ANTIQUE OLIVE BLACK EXTENTED ITALIC.

THIS DRG. TO BE READ IN CONJUNCTION WITH DRG. NOS. 3220/201 & 202.

BOTTOM PANELS:
5 mm WHITE MOULDED ACRYLIC SPRAY PAINTED TO SELECTED GREEN - OPACQUED TO ALLOW COPY & PRODUCT PRICE TO SHOW THROUGH IN 7 SEGMENT MOULDED PVC FLAP SYSTEM.

WHITE ACRYLIC BORDER.

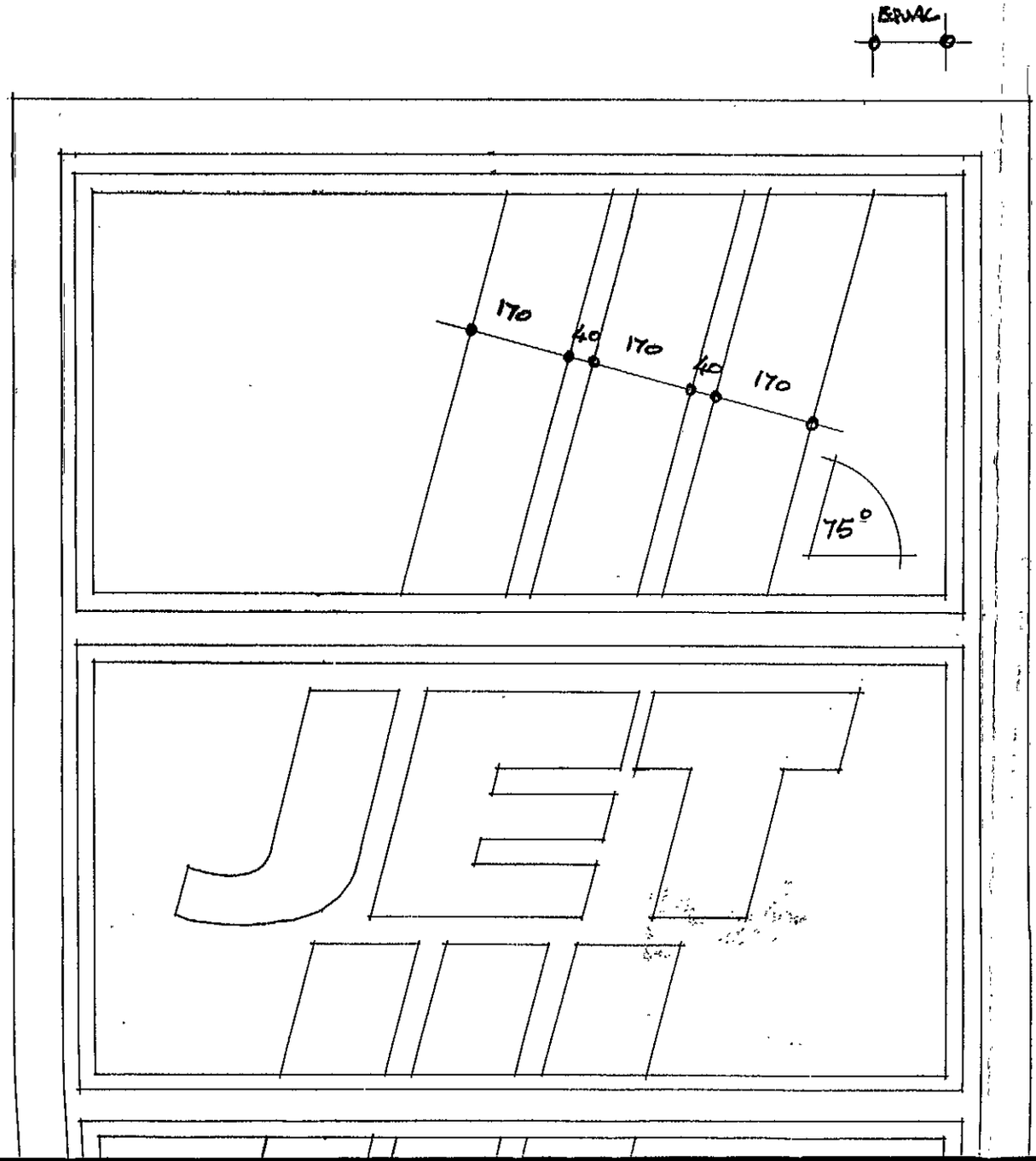
PRICE, Min 95 OCTANE YELLOW.
SPECIAL UNLEADED, LITRE WHITE.
TYPEFACE: HEVETICA MEDIUM.

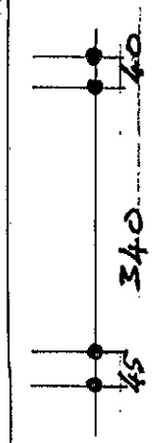
NEW JET IDENTITY

POLE SIGN PANELS:
Scale: 1:10
Date: MAR. '91.
Drg. No: 3220/207

JET

ROBH
ARCHITECTS & DESIGNERS
Ryan O'Brien Handy Associates
6 Percy Place
Dublin 4
Telephone 680 899
Facsimile 680 089





TOP 3 PANELS:

WHITE ACRYLIC 5mm MOULDED PANELS.

3-M SCOTCHCAL TRANSLUCENT FILM.

JET STRIPES

RED: REF.

YELLOW: REF.

BLUE: REF.

GREY 3-M BACKGROUND & KEY LINES

GREY: REF.

WHITE ACRYLIC BORDER

WHITE LETTERS.

STRIPES ONLY IN 3RD. PANEL WHERE NO SHOP SIGN REQUIRED.

JET

SHOP

OUTLINE SPECIFICATION

for

THE REDEVELOPMENT

of

WHITECHURCH PETROL FILLING STATION,
WHITECHURCH ROAD
DUBLIN.14.

for

CONOCO IRELAND LTD.

under the supervision of

RYAN O'BRIEN HANDY ASSOCIATES

December 1991

1 All work is to be carried out strictly in accordance with the Requirements and Regulations of the Local Authority, Building Bye-Laws, Draft Building Regulations and Fire Officer.

2 All material to be used to be of Irish manufacture and to I.S.S. where applicable and to be the best of their respective kind.

3 All Local Authority charges, i.e. water supply connections, drainage connections, - E.S.B. and Bord Telecom Charges should not be included in the tender. All such charges will be paid by the Client or be refunded by the Client to the Contractor should the Contractor pay same so as to avoid unnecessary delays.

4 It will be the responsibility of the Contractor to inform the Building Control Department with due notice when the foundation trenches, drains, etc., are ready for inspection.

5 The Contractor is to include for making good all surfaces where disturbed to match existing finishes after the completion of all works.

6 The Contractor is to include for removing all rubbish from the site and to leave the site in a neat and clean condition after the completion of all works.

7 As petrol and diesel oil are stored and dispensed on this site, safety is paramount. It is the responsibility of the Contractor to take all precautions necessary while carrying out the works. No welding, cutting of mesh, etc., is to be carried out in the vicinity of the underground tanks or petrol pumps. Contractor to consult with Architects and pipework specialists regarding the positions of existing pipework, electrical ducts, etc., before any excavation work is carried out. Contractor to include for careful excavation in these areas so as to avoid any damage to the pipelines, etc. Before any work commences, Contractor to agree the safety standards necessary with the Architects and Client.

8 Contractor to include for very careful excavation of ground surfaces etc., especially around the tanks and across the forecourt so as to avoid drainage to pipe lines, existing electrical ducts, air and water lines etc. It will be the responsibility of the Contractor to consult with the Client, Specialist Firms, Electrician and Architects regarding approx. positions and depths of these services before commencing this work.

9 Two existing single compartment underground petrol storage tanks are to be degassed and then removed from the ground and taken away from the site, in accordance with the Dangerous Substances Act. A specialist firm will carry out the degassing of the tanks and the removal of all existing underground pipework from same. The Fire Officer will be given due notice before this work is carried out.

10. 2 no. new underground petrol stroage tanks are to be installed where shown on drawing no: 2898/02 strictly in accordance with detail drawing no. 600/16C and in accordance with the Dangerous Substances Act and the Local Fire Officer's requirements. The fitting out and hydraulic water testing of these tanks, all pipework installation of gauges, self-services equipment, etc., are to be carried out by a specialist firm. The Fire Officer is to be informed when this work is being carried out so that he can inspect all stages of the work.

11 Contractor is to include for building all manhole chambers with 225mm solid concrete blocks (approx. size 900 x 750 x 950 mm deep). The walls and floors of these chambers to be rendered with 3 no. coats sand and cement. The rendering is to be finished neatly around all pipework and tank manlid.

12 The existing E.S.B. supply to the site is to be brought to the new building in an underground duct where a fuseboard, meteres, isolation switches, etc. will be installed in the store. All wiring on the site to the pumps, canopy, sign, lights, etc. are to be laid in 100mm diameter 'Wavin' ducts, 300mm minimum below ground level with adequate inspection chambers and drawpits. All electrical work is to be carried out strictly in accordance with the most recent E.S.B. Regulations and Requirements.

13 Contractor to include for taking a 25mm 'Hydrodare' connection from main supply to the new building. Include for 25mm full way stop valves on all connections. Pipes to be 450mm minimum below ground level.

14 Contractor to include for new planting areas and boundary walls as indicated on drawing no. 2898/02.

15 The new surface water drains on the site are to be installed in accordance with the layout drawing. Drains generally to be PVC ('Wavin' or similar) to sizes indicated and to be laid in trenches in straight lines to the required depth and falls. All joints are to be made in strict accordance with the manufacturer's instructions. All drains are to be laid on a minimum 150mm concrete (Grade 12) bed and encased in 150mm conorete

(Grade 12). The trenches are to be back-filled in layers, the material being carefully rammed to consolidate it, care being taken not to damage the pipes and joints. All drains to be water tested for leaks in accordance with CP301.

16 Manhole chambers on the surface water drains to be constructed with 225mm hollow concrete blocks rendered with 3 no. coats sand and cement waterproof rendering internally; half round channels formed with easy bends with sand and cement benching to sides. Provide and fit step irons in chambers if necessary. Provide and fit heavy duty cast iron covers and frames bedded in grease.

17 All A.J.'s to be PVC (Wavin or similar). Provide 250 x 250mm PVC square rising pieces up to ground level, and finish at top with 275 x 275mm galvanised cast iron covers and frames set in cement mortar and sealed in grease. All A.J.'s to be set on bed of concrete 150mm thick (concrete grade 12).

18 Contractor to supply and install PVC gulley traps where shown on drawings.

19 The Contractor is to supply and install a prefabricated Conder petrol interceptor trap in accordance with the Manufacturer's instructions, as per detail drawing no. 600/6, on the surface water drain where indicated on the drawings and at the car wash outfall. The Contractor is to supply and install 3 no. 100mm diam. p.v.c. vent pipes to the chambers of the interceptor which are to be joined together underground and 1 no. 100mm diam. p.v.c. pipe to be brought underground to an agreed position on site, up to ground level. A Specialist Firm will supply and fit the upright section above ground. The Contractor is to supply and fit 3 no. heavy duty manhole covers and frames over the 3 no. interceptor chambers.

20 The Contractor is to provide and install new 'ACO' drainage channels type C 250 and new 'ACO' silt gulleys where indicated on the drawings.

21 New foul drains indicated are to be installed strictly in accordance with the drawings 2898/04, and as described previously for Surface Water Drains.

22 Manhole chambers on foul drain to be constructed with 225mm solid concrete blocks rendered inside and outside with 3 no. coats sand and cement waterproof rendering, half round channels formed with easy bends with sand cement benching at 1:12 to sides. Provide and fit step irons to chambers as necessary and provide and fit heavy duty cast iron covers and frames, sealed in grease.

23 All A.J.'s to be installed as previously described in Clause No. 18.

24 Provide and fit PVC gulley traps where shown.

25 Contractor to include for 150mm minimum of well consolidated hardcore under all new ground surfaces.

26 The forecourt area under the canopy is to be surfaced with concrete paving setts laid in strict accordance with the manufacturer's instructions and specification.

27 The remainder of the forecourt, as indicated, 250mm deep reinforced concrete (grade 20) laid to falls as detailed on drawing no. 2898/04).

28 A new canopy is to be erected on site in position indicated on drawing. The canopy, with illuminated fascias on three sides, is to be fabricated, supplied and erected by a specialist firm. The canopy shall be constructed with R.H.S. steel stanchions, steel intermediate members with aluminium top sheeting, soffite sheeting and steel fascias.

29 The new shop/store building is to be built strictly in accordance with detail drawings nos. 2898/06, and Structural Engineer's drawings.

30 Foundations to be constructed as per details on drawing no. 2898/06, concrete grade 20. Footings to be reinforced top and bottom with A252 mesh.

31 New external front wall to be 400mm cavity wall with 100mm split fluted **WHITE** Forticrete Masonry blocks (400 range) outer leaf as per detail drawing, with matching **WHITE** Forticrete cill block details at plinth, around and over projecting window head band as shown with matching **WHITE** Forticrete parapet copings; 100mm cavity with 50mm rigid insulation board fixed against inner leaf with 100mm solid concrete block inner leaf to suit Forticrete modular dimensions (400 range). Carry round the split fluted face around

all window and door opes (to face of frames). Cavity wall ties to be used at no less than 4 no. per sq.m. with ties at openings, ensuring that all mortar droppings are cleaned off the ties and out fo the cavity.

32 All internal walls to be 225mm or 100mm solid concrete block as indicated.

33 All walls to be plastered internally with 12mm hardwall plaster and skim.

34 Roof constructed using two layers of 'Derbiqum S.P.' roofing membrane on a base layer of 30mm thick 'Korktherm' insulation on 'Nilperm' vapour barrier on 'Kingspan' ('Seo-form'), roof decking on 'Multibeam' purlins Ref. no: 65609 on 254 x 146 x 31 kg/m. universal beams, laid to fall.

35 All flashings generally to be No. 5 lead flashing.

36 Floors to consist of a levelling screed on 150mm thick concrete (grade 20) floor slab on 1000 gauge 'Visqueen DPM on 50mm sand blinding on 150mm well consolidated hardcore.

37 Include for 1000 gauge visqueen DPC's where shown on drawings.

38 Lintols generally to be prestressed concrete units, used strictly in accordance with manufacturer's instructions or as per details shown on the drawings.

39 Concrete beams at the front and sides of the building to be cast insitu (grade 30) as per detail on drawing no. 2898/06 + 600189 and in accordance with engineer's details and specification.

40 Front face of building to consist of aluminium framed shopfronts as shown. Entire shopfronts, including main door to be aluminium coated with white PVC or white syntha pulvin finish. Framing to be 'shopfront type' box section or similar. Glass in windows **AND** door to be 12.5mm laminated plated glass.

41 External doors and frames to be steel - Martin Roberts Guardian Standard doorsets. Hinges to be standard recessed BH1 - 100mm x 75mm x 26mm template drilled butt hinges - 3 hinges per door. Door to Store to have a PH73 panic bolt set and door to toilet to have a MKC 241 upright mortice cylinder sash lock.

42 Door and frame from shop to lobby to be standard 1 hour fire check door.

43 All other internal doors and frames to be standard flush plywood finished doors.

44 Include for providing and fitting 100 x 200mm selected wall tiles to a height of 1.65m around all walls in toilet and ventilated lobby. Wall tiles to be carried down to floor level.

45 Provide and fit 100 x 23mm skirtingboards around all walls in building except areas which have wall tiles, where the wall tiles are to be carried down to the floor.

46 Provide and fit 225 x 225mm air vents where shown.

47 Contractor to include for a suspended ceiling - 'Armstrong - Microlook Image - 600 x 600 x 17mm white tiles' in the shop area and 'Armstrong - Minuboard 600 x 600 x 17mm white tiles' in **ALL** other areas. Suspended ceilings to be supplied and installed by a specialist firm.

48 Provide and fit PVC soil and vent pipe where shown.

49 Rainwater gutters to be an approved 125mm aluminium gutter. R.W.P.'s to be 100mm diameter PVC.

50 The Contractor is to locate the existing water supply to the site. Include for bringing a 25mm hydrodare connection into the building to a water storage tank which is to be located in store.

51 Provide and fit an 80 gallon fibreglass storage tank (with overflow pipe) on iron angle bearers in Store - exact location to be decided on site. Include for insulating tank and encasing tank with removable timber sheetings. Include for ball cock mechanism and overflow pipe.

52 Contractor to include for the supply and fitting of 1 no. Vitreous china low level w.c. suite with overflow pipes and 1 no. 300 x 500mm (approx.) Vitreous china wash hand basin including 2 no. taps in the toilets.

53 Include for the supply and installation of 1 no. standard stainless steel sink and base unit with presses under.

54 Include for taking 1 no. 12mm spur for drinking water off rising main to the sink unit in the kitchen.

55 Include for the following fullway stop valves - 25mm on service entry to the building; 12mm on spur to sink unit, the 2 no. w.c.'s, the 2 no. cold water taps on w.h.b.'s.

56 Include for bringing 12mm supply pipes from the water storage tank to the w.c. the cold water taps on the w.h.b.'s and 2 no. electric undersink water heaters. The nominated Electrician will supply and fit undersink water heaters. As some undersink water heaters require connections from the rising main rather than the tank, Contractor should check with the Electrician before installing the pipework. Provide and fit 12mm pipes from undersink water heaters to hot taps at both w.h.b.'s and sink unit.

57 Dry powder fire extinguishers and 'No Smoking - Turn Off Engine' signs are to be provided on the forecourt as required by the Dangerous Substances Act and the Fire Officer's Requirements. The positions in which the petrol tanker will stand while filling the underground storage tanks must also be marked on the concrete apron.

58 All surfaces are to be made good after the completion of all works and all rubbish is to be carted away and the site left in a neat and clean condition.

RYAN O'BRIEN HANDY ASSOCIATES

December 1991