Register Reference No.: 91A/0796

Letter No.: 556

Planning Department, Block 2, Irish Life Centre, Lower Abbey St., Dublin 1.

Tel: (01) 724755 Fax: (01) 724896

17 July 1991

Paul S. Doyle,
Palmerstown News,
Unit 1, Kennelsfort Road Upper,
Palmerstown,
Dublin 20.

RE: <u>Proposed redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement canopy and shop/store building at Kennelsfort Road, Palmerstown for Conoco Ireland Ltd.</u>

Date of decision to grant permission 12th July, 1991 subject to 9 conditions.

Dear Sir/Madam,

With reference to your representations/objections, I wish to inform you that a decision has been made on the above planning application. This decision has been entered in the Planning Register which is available for inspection at the Planning Department, Irish Life Centre, Lower Abbey Street, Dublin 1, during office hours (9 a.m. to 12.30 p.m. and 2.15 p.m. to 4.30 p.m.) A certified copy of the entry in the register may be purchased on payment of £5.00.

Yours faithfully,

for Principal Officer.

NOTE: An appeal against this decision by an aggrieved person must be made within the period of twenty one days beginning on the date of the decision to grant permission, indicated above. The appeal shall be in writing and shall state the subject matter of the appeal and the grounds of appeal and shall be addressed to An Bord Pleanala, Floor 3, Blocks 6 and 7, Irish Life Centre, Lower Abbey Street, Dublin 1.

- 1. An appeal by an aggrieved person to An Bord Pleanala will be invalid unless accompanied by a fee of £50.00
- 2. A party to an appeal making a request to An Bord Pleanala for an oral hearing of an appeal must, in addition to '1' above, pay to An Bord Pleanala, a fee of £50.00
- 3. A person who is not a party to an appeal must pay a fee of £15.00 to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.
- 4. Interested parties are advised to consult the Planning Authority or An Bord Pleanala to ascertain if an appeal has been lodged by an applicant.

unit, Kannelsfort Roud within, 941/296 m. noch Prendagat, 556) Palmenton Planning officer - Dubl 20. 6265944 (PHONE) Dea Wr. Prendergat, Re: Proposed re doveliment get Petral Station rounds fort rd. Pelventer (Reg. NO. 91A 0796) In considering the above development I wild as you to consider the following houts: -I soiney sited directly accross from the Palmenton Shahing centre this hopered development convot be offering any additional service to the area, furtherme my own shelp days a week (offering full range of groceries + removement at Furtherme the are many other retail outlets of similar nature situated in the man on st. area, will are also adjacent to the latest station. To be consistant int the south city bevelopment Plan 1987, I'would ask you to consider the follown: ancillary use at Petrot. Station The essential purpose of tetral stations is to hovide facilities for the sale of justs for vehicles. Those fuels are lightly flamable. The attraction of increased numbers of horrows by developing a substantial shop at a fathal station increases the hotorital danger is relation to:-(a) vehicle related bozard for tedestrians, especially eldown, (b) hotertial fre and exclosion hazard, (c) additional traffic turning movements. Druseis calling at better stations from have access to the hundrasing of small sunding terms such as conjectionery, cigarettes and non-alcoholic beverages.

1

Palmenstown News

My nod Prondergast Planning officer.

"This is subject to the requirements that the sale of goods unrelated to the motor trade from a patrol sales through will be on a small scale as an ancillary facility to the fetral station use. Thus, for example, sweets, chocolates, non-alcoholic beverages may be sold but not the full range of round household appearies. The total ones downtail to relaid sales nothing a fetral filling station will be limited to 36 offene wetres."

Finally in relation to the 1982 ministerial Directions I would not you to consider to houter raised in horagraph one and to be considered into Dublicating and collect to regulations in horagraph two.

unfortenately, I did not see the holised bloming application in the holises on I would have been in touch with your earlier, however, I now propose to contact the TD's councilloss, residents associations, RODATA et in the awart of the holised development being approved.

PAUL S. DOYLUE PAUL S. DOYLUE PALMERTONN NEWS.

BYE LAW APPLICATION FEES

REF. NO.:	919/070	16		CERTI	FICATE NO.	=	55B
PROPOSAL:	Redevelop	Retro l	Filling	STATION	+ New	Conory	Stop & Stor
LOCATION:	Jet Petroi						
APPLICANT:		Indend			,		

	1	2	3	4	5	6	7
CLASS	DWELLINGS/ARFA LENGIH/STRUCTURE	RAIT	AMI. OF FEE REQUIRED	AMT.	BALANCE DUE	RED. FI.:	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ £55					
В	Domestic Ext. (Improvement/ Alts.)	@ £30					
C	Building for office or other camm. purpose	@ £3.50 per M ² or £70	553 =	/ SS0·16	12.84	notSoy	u
ວ	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	@ £?00	4,800	1000			
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:	4.	grade: D/TI	Date: 22/5/91
Column 1 Endorsed:	Signed:		Grade:	Date:
Columns 2,3,4,5,6 & 1	7 Certified:	Signed J. J. D.	Grade:	Dat 8 5 9
Columns 2,3,4,5,6 &	7 Endorsed:	Signed:	Grade:	Date:

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LOCATION COVERNMENT (FLANNING AND DEVELOPMENT) ACTS, 1983 TO 1982

ASSESSMENT OF FINANCIAL CONTRIBUTION

REG. REF.:	918	196
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COMT. REG.:

SERVICES INVOLVED: WATER/FOUL SEWER/SURFACE WATER

AREA OF SITE:

FLOCE AREA OF FRESENT PROPOSAL:

1692 FT

NEASURED EY:

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT - C/ ()

MANAGER'S CROSSED NO: 7, 1/2/

ENTERED) IN CONTRIBUTIONS REGISTER:

= \$ 1692 1000 @ 750 = 269:

W H.G.

Register Reference: 91A/0796

Date : 27th May 1991

Development: Redevelopment of Jet Petrol Filling Station including

revised forecourt layout, replacement canopy and shop/

store building.

LOCATION : Kennelsfort Road, Palmerstown.

Applicant : Conoco Ireland Ltd.

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 17th May 1991

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

ours faithfully, PRINCAPAL OFFICER STATE PRINCAPAL OFFICER DUBLIN Co. COUNCIL Date received in Sanitary Services 1.8 JUN1991... 15JUL 1991 SAN SERVICES Returned . Grand FOUL SEWER Available is principle. ail interester dischaging to the feel seven system. This is not acceptable to try - increased Services. Applicant must ladge a compliance drawing showing the frecent drainage dischanging to the suface Later sy them before work commenced a rive LANNING DEPT. SURFACE WATER Boarloble Peliced to above. SENIOR ENGINEER, SANITARY SERVICES DEPARTMENT, 46/49 UPPER O'CONNELL STREET, DUBLIN 1

CIRC to CHO

Date : 27th May 1991

ENDORSED DATE

WATER SUPPLY

Work available

Such s clongs refuel

Oll corrections at the carried out the

Author Co Co at applicate each of

Sapply to be multiply to be sought to

ENDORSED THAT DATE 1979

FLANNING DEFT.

Register Reference: 91A/0796

Order No. 7/3217/91

Record of Executive Business and Manager's Orders Open Space:

Redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement canopy and shop/store building at Kennelsfort Road, Palmerstown for Conoco Ireland Ltd.

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

Reg. Ref.
App. Recd:
Floor Area:
Site Area:

Zoning:

91A/0796 17.05.1991 157.19

Ches

SECURITY

1

Report of the Dublin Planning Officer, dated 10 July 1991

This is an application for PERMISSION for redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement canopy and shop/store at Kennelsfort Road, Palmestown.

The proposed development consists of an new canopy and includes the usual facilities of a petrol station and "shop" of approximately 700 sq. ft.

m

Roads Engineer Report noted. Site adjoins The Silver Granite Public House. Site associated 9th inst. Work had a frommered Senior Environmental Health Officer's report noted. It is sted tool an objection has been lodged.

The proposed development is consistent with provisions included in the Development Plan.

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following (9) conditions:-

(CONDITIONS ATTACHED)

(NP/BB)

Endorsed: - P

for Principal Officer

For Dublin Planning Officer

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 (q) conditions set out above is hereby made.

Dated:

/√ July, 1991.

ASSISTANT CITY & COUNTY MANAGER

to whom the appropriate powers have been delegated by Order of the Dublin City and County Manager, dated 8th July, 1991.

Record of Executive Business and Manager's Orders

Redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement canopy and shop/store building at Kennelsfort Road, Palmerstown for Conoco Ireland Ltd.

CONDITIONS

- 1. The development to be carried out 1. To ensure that the in its entirety in accordance with the development shall be in plans, particulars and specifications accordance with the lodged with the application, save as permission and that may be required by the other effective control be conditions attached hereto.
- 2. That before development commences, 2. In order to commence with the Sanitary with the Sanitary 2. 187 approval under the Building Bye-Laws with the Sanitary be obtained, and all conditions of Services Acts, 1878-1964. that approval be observed in the development.
- 3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.
- 4. That the requirements of the Chief Fire Officer be ascertained and ____ strictly adhered to in the development.
- 5. Details of landscaping and boundary treatment to be agreed prior to commencement of development.
- 6. That a financial contribution in the sum of f 126 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.
- 7. That a financial contribution in the sum of £1,500. be paid by the proposer to the Dublin County Council towards the cost of provision of roads in the area of the proposed development and which facilitate this considered reasonable development; this contribution to be paid before the commencement of contribute towards the development on the site.

REASONS FOR CONDITIONS

- maintained.
 - 2. In order to comply
- In the interest of health.
 - 4. In the interest of safety and the avoidance of fire hazard.
 - 5. In the interest of the proper planning and development of the area.
 - 6. 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.
- 7. The provision of such services in the area by the Council will facilitate the proposed development. It is contribute towards the cost of providing the services.



Record of Executive Business and Manager's Orders

Redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement canopy and shop/store building at Kennelsfort Road, Palmerstown for Conoco Ireland Ltd.

8. That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council.

9. That The banday walls in the adjance was gardens of explanation of the county increased in height to 2 methers the surface of the su

Hory galvin.

DUBLIN COUNTY COUNCIL

REG. REF:

91A/0796.

DEVELOPMENT:

Red. of Jet Petrol Filling station, rev. layout,

replacement canopy and shop/store building.

LOCATION:

Kennelsfort Road, Palmerstown.

APPLICANT:

Conoco Ireland Ltd.

DATE LODGED:

17.5.91.

No Roads objection subject to:-

Applicant to make a contribution of £1500 towards Roads Improvements and Traffic Management on Kennelsfort Road which facilitate the development.

PLANNING DEPT.
DEVELOPMENT
DEVELOPMENT CONTROL SECT
Date 24-06.91
Time 3.30

TR/BMcC 19.6.91.

SIGNED: Longer

DATE: 19/6/91

ENDORSED:

7.10mck

DATE:_

19/6/91

COUNTY COUNCIL

PLANNING AND BUILDING CONTROL DEPARTMAENT

Senior Environmental Health Officer, 33 Gardiner Place.

Register Reference: 91A/0796 Date : 17th May 1991 Development : Redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement canopy and shop/ store building. LOCATION : Kennelsfort Road, Palmerstown. Applicant : Conoco Ireland Ltd. : PERMISSION/BUILDING BYE-LAW APPROVA DUBLIN COUNTY COUNCIL App. Type 2 9 MAY 1991 Planning Officer : ENVIRONMENTAL HE Date Recd. : 17th May 1991 **OFFICERS** Attached is a copy of the application for the above development .Please ensure that your report is received within 5 weeks from 17th May 1991.

PLANNING DEPT. SECT DEVELOPMENT CONTROL SECT Yours faithfully, Date PRINCIPAL OFFICER Nde proposal is acceptable compliance with The Food Aygrene Rapulations 1950 /89 The Mouth Safety of Welfaire at Work Act 1989. 3 Suitable intake sentilation being provided in the lolly leading to the WC compantion in the Suitable means of ventilation being provided provided in the few oration.

For Jan Devine Pailly, SCHO 6/6/91.



Ryan O'Brien

Handy Associates 6 Percy Place

ND/MR/3017

13th September 1991

918/0796 2.4.0.4 A.l. for BBL

Dublin County Council, Building Control Section, Block 2, Irish Life Centre, Lower Abbey Street, DUBLIN 1.

Dublin 4 Telephone 680 899 Facsimile 680 089

TIME EXTENSION/ADDITIONAL INFORMATION FOR BBL REG. REF. NO. 91A/0796 PROPOSED REDEVELOPMENT OF 'JET' PETROL STATION, AT KENNELSFORT ROAD, DUBLIN 20

Dear Sir/Madam,

Further to your correspondence of the 29th August 1991, we enclose copies of the structural calculations for the building and canopy as requested.

We have also shown the outfall from the petrol/oil interceptor connected to the surface water system.

Should you require any further information on this matter please contact this office.

Yours faithfully,

NOEL DOYLE

16 SEPT 91

111 Wellington Street Luion LU1 5AF

Pariners Denis Handy DIP ARCH MRIAI MSDI John McCarthy DIP ARCH MRIAI MSDI Associates Denis Whelan RIAI (TECH) Kenneth McEwan BSC (HONS) Noel Doyle

05 2Eh 1824

Dublin County Council Comhairle Chontae Atha Cliath

Planning Department

Enquiries/Personal Callers: Liffey House 24/28 Tara Street, Dublin 2 Telephone (01) 773066



Correspondence: Building Control Section Block 2, Irish Life Centre Lr. Abbey Street, Dublin 1

Ryan O'Brien Handy Assocs., 6 Percy Place, DUBLIN 4. Our Rel. PC/CO[†]B

Your Ret

Date

29/8/1991

RE: "Time Extension/Additional Information for B.B.L. Reg. Ref: 91A/796"

Proposal: Redev. of Jet Filling Station incl. revised forecourt layout, replacement

Lodgement Date: 17/5/91 canopy & shop/store building.

Dear Sir/Madam,

I refer to your application for Building Bye Law Approval in respect of the above proposal. To enable full consideration to be given to the proposal, you should submit the following information in duplicate:

(1) Full structural details including Structural Calculations and a Certificate from a Chartered Engineer are required.

(2) A drawing showing the forecourt drainage discharging via an oil interceptor to the surface water system and not the the foul drainage system is required.

(3) Details of the proposed canopy are required.

To facilitate your submission of the information required, the Council is prepared to extend the time for considering the application for a period of two months commencing on receipt of the above information. If the additional information, as specified, is not submitted within one calendar month from the date of this letter, the application will be determined on the basis of the documentation submitted to the Council.

You should signify in writing your agreement to the terms, as set out above, for extending the period for considering your application. In this regard please return the attached Agreement Notice.

Yours faithfully,

RINCIPAL OFFICER.

NOTE: Further correspondence should be clearly marked "Time Extension/Additional Information for B.B.L. Reg. Ref. No.: 91A/796"

Dublin County Council Comhairle Chontae Atha Cliath Planning Department

Enquiries/Personal Callers: Lifley House 24/28 Tara Street. Dublin 2 Telephone (01) 773066



Correspondence: Building Control Section Block 2, Irish Life Centre Lr. Abbey Street. Dublin 1

Principal Officer,
Planning Department,
Building Control Section,
Block 2, Irish Life Centre,
Lr. Abbey St.,
DUBLIN 1.

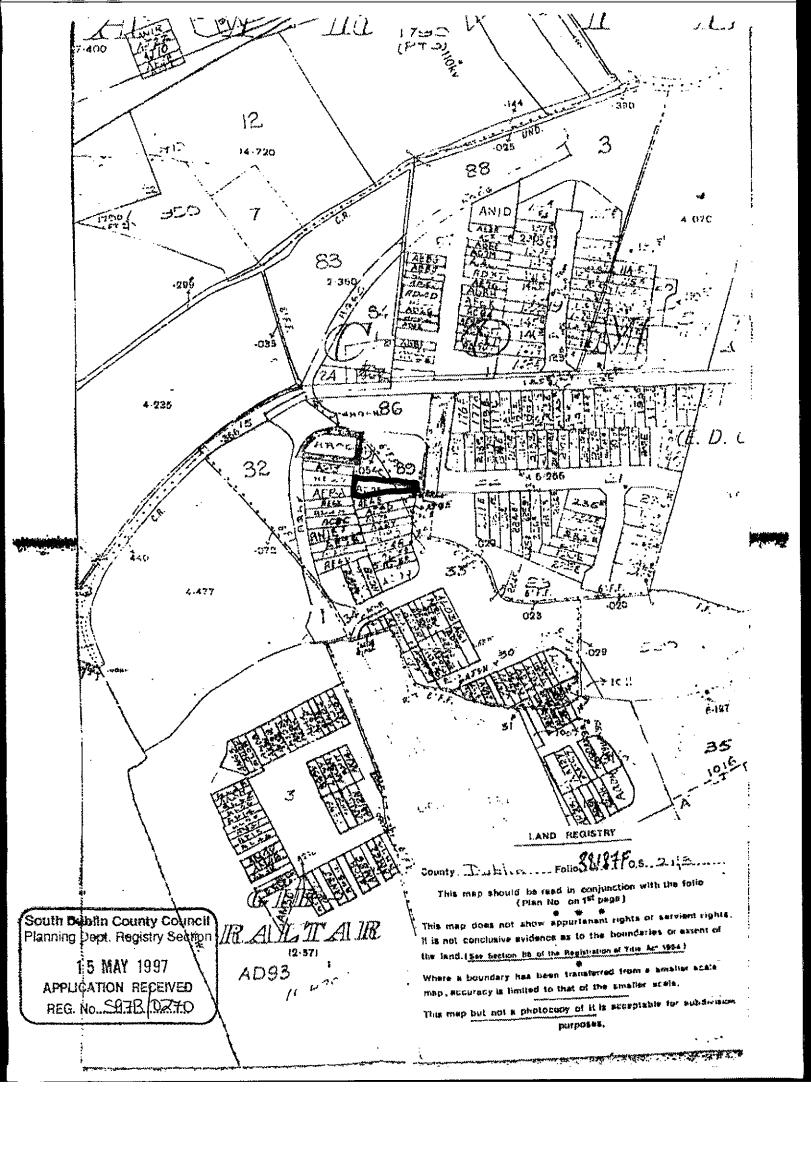
NOTICE OF AGREEMENT TO 'EXTENSION OF TIME'

B.B.L.	APP	LICATION	DAT	ED:	17/5/1993	1.	REG.	REF.:	91A/796	
PROPOSA	AL:	Redev.	of	Jet	Filling	Station	incl.	revised	forecourt	<u>layou</u> t
replac	eme	nt canopy	7 &	shop/	store bui.	lding @ Ke	ennelsfo	ort Road.		

I Mool Dado for Puga O'Brian Wayor (Applicant/Agent) agree to the terms, as set out in the Council's letter dated 29 August 1991, for the extension of time for considering the above application.

DATED: 13th SEPTEMBER 1991

N.B. Please forward this Notice to the Council, by return of post, to allow for the due process of the 'Time Extension'.



ARTHUR W. WEST & ASSOCIATES

CONSULTING ENGINEERS

Arthur W. West, B.A.I., C. Eng., M.I.E.I. Roger P. West, B.A.I., M.Sc., D.I.C., C.Eng., M.I.E.I.

Our Ref: 857

Your Ref:

Date: 24 . 6 . 9/

25 Cambridge Road,

Telephone: 977197.

Rathmines, Dublin 6.

JET PETROL STATION

KENNELSFORT RD.

ARCHITECTS: Ryan O'Brien Handy. Refer to our DRG. No. 857/3994. DUBLIN COUNTY COUNCIL
Planning Doct Registry Section
APPLICATION RECEIVED

16 SEP 1991

REG No. 914 0796

ROOF LONDINGS:

Chippings 10/6/0'

Joists ele 10

Ceiling 5

Services 5

Superimposed 30

60/1/0'

Span of joists 11 Fu

M= 1/8 + 60+112+12 =10,890 in the

Using 7" + 2" e 12" Hole = /6 + 2 + 7" +750 = 12,250 inky

SPAN of ROOF BEAM 23 fr.

Local for = 11x60 = 660 lbs

M=1/8 + 660 + 23 +12 = 234 intes

Z= 234 . 223. Use. 10 x57/4,25 U.B

Pien Reaction = 660 + 23 - 7590 /45.

Provide 750 x 215 x 200 deep conc bearing pad Average pressure = 7530 , 32/4/11 8 atistactory 857

JET STN. AT LENNELS FORT RD.

FOUNDATIONS TO 750 x 415 Rising Pier Roof Loca = 7590 1/mg.

Dead wit of pier = 12x2.5 + 150 = 4500

Load from Linfol = 11x600 = 6600

18,690 165.

Pier load spread at foundations at 2.3'+2x2.0'=6.5'
Using 1.1 founds x300 deep vembreca with H.T. Hesh.
6 @ 100; 7@ 200

Average ground pressure - 18,690 = 821 /m/a' 6.5x3.6 = 0.37 T/a'

Satisfactory subject to sife continuation.

20 x 20" LINTOL OVER WINDOWS & DOOR at Front

Dead wr of cone. = 20 x 20 = 400/6/h

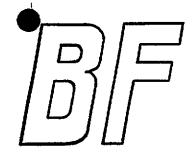
Parapel = 2' x 8/12 x 144 = 200/600/m/m

H=1/10 4600 +9 +12 = 58, 300 in/he

Az = 58, 300 = 0.14 89.15

30,000 x.8 x/B

Use. 3 No. 12mm hars top & bothom
lomm strongs e 300 c/s.



BERNARD FINNEGAN LTD.

CONSULTING ENGINEERS

5 MILLBROOK CLOSE, SALLYBROOK, GLANMIRE, CO. CORK. Telephone 021-822336. Fax No. 021-821776

CALCULATIONS

FOR

CANOPY

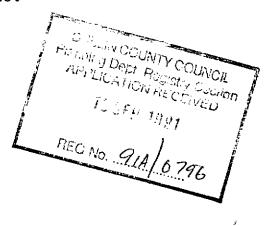
FOR

JET SERVICE STATION,

KENNELSFORT ROAD,

PALMERSTOWN,

DUBLIN 20.



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

25 May 1991.

NOTES ON CALCULATIONS.

1.0 LOADING

- 1.1 LIVE LOAD complies with B.S. Code of Practice CP. 3, Chapter V, Loading: Part 1 (1967): Dead and Imposed Loads (Metric Units).
- 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.

BUILDER'S WORK DURING CANOPY ERECTION.

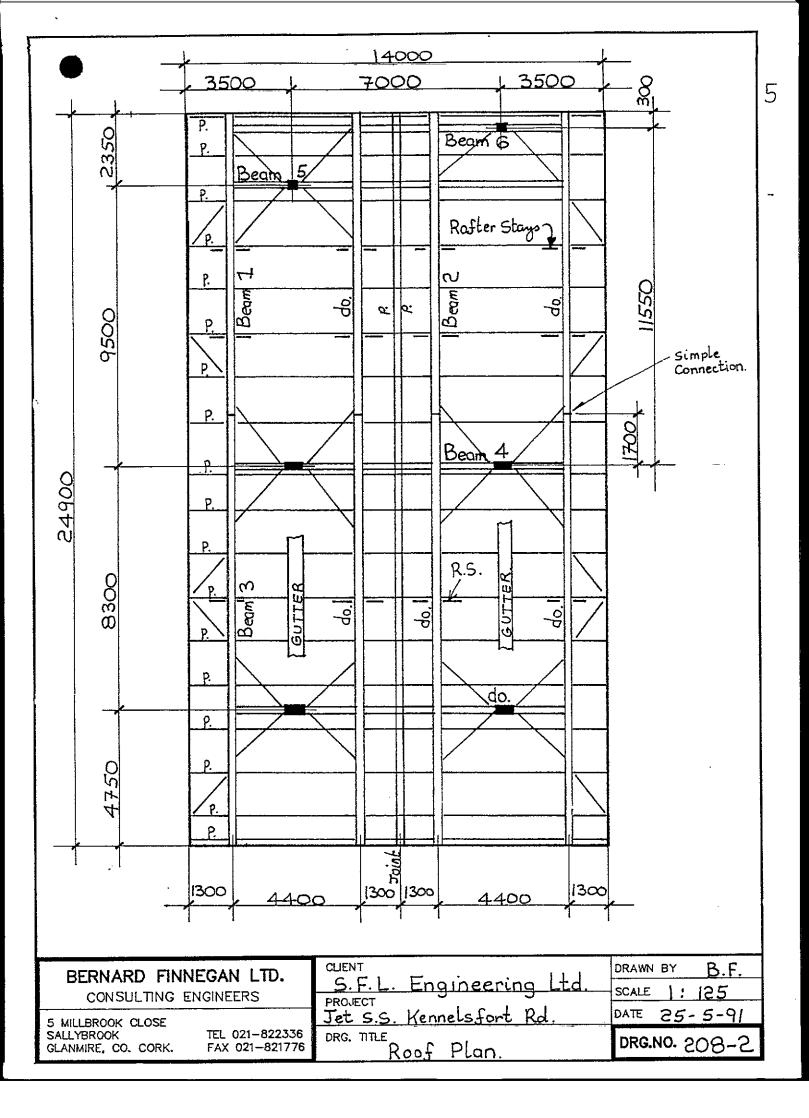
- All water and dirt to be removed from holding down bolt tubes before columns are erected.
- Column base plates are to be grouted by the Builder after columns are squared and plumbed.
- Grout is to be a proprietary "non-shrink" cementicious grout, mixed and placed in accordance with manufacturers instructions.
- 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	S.F.L. Engineering Ltd PROJECT	DRAWN BY B.F. SCALE 1:7.5
5 MILLBROOK CLOSE	General Details	DATE 23-10-90
SALLYBROOK TEL 021-82233 GLANMIRE, CO. CORK. FAX 021-8217		DRG.NO.

```
JET S.S., KENNELSFORT ROAD,
```

LOADING.

1. Superimposed Loading : 0.75 Kn/m^2. C.P.3. Chapter V : 0.15 Kn /m^2. Deck, Purlins, Soffit 2. Dead Loading 1050 deep 3. Fascia Weight/m. 0.22 kn. / m. 4. Wind Loads. = -46 m./sec. Basic Wind Speed 1.00 S1 = 0.65 (Ground Roughness 3, Class B) S2 s_3 1.00 29.9_m./sec. Vв 0.55 kn./m^2 q 1.9) (Cp Fascia Horz. Load 1.09 kn./m 0.16 km./m^2 0.3) (Cp Wind Pressure -1.3)blocked -0.71 kn./m^2 (Cp = Wind Suction -0.5)unblock. -0.27 kn./m^2 (Cp Wind Suction



BERNA	RD FINNEGA	N LTD. c	onsulting Eng	ineers. (021-822336
JOB : J	et S.S. Ker	nels fort Ro	J. DATE	Ξ: 25-5-	-9/ PAGE : 6
			Name of the last o		
	Section Siz	<u>res</u>			
	1	: 1050			
	1	1 4200			
	Roof purlin	1 7,550	D6 <u>2</u>		
	. ~	in Pl 1 7 550	062 <u>@ 156</u>	00 dc.	
	Beams 1,6				nns, Rafter Stays)
	Beams 2,3	5,5 305	× 165 × 40 (H 6 H	
		356			, Stiffs at cold
	Main column	1 400	X 200 X 10	10111	to Standard
· 	base plate	: 600:	x 400x co,	6/24 bou	.s Juanaara.
		1 200 x			
	1	1 2200			and a local out
	Rear Cot. Su	pport; By C	thers, see	design fi	gras beccs,
		 		·	
	Actual forces	, on each coli	imp at fasc	ia level	(Rear col)
	+ means dow	n, forces are	in kn See	100ae 21	
· · · · · · · · · · · · · · · · · · ·		-)-/0		1 0	
		W	Fa	Fu	
	Case	53.0	4.0	<u>Fy</u> 0	
	Case 2	0.8	4.0	O	
	Case 3	-51.0	0	0	
	·				
	Note: Bear	ms 546 requi	ire stiffs al	celo,	
	•	1			
					
		 		<u></u>	
		·			
l					

BERNA	ARD FINNEGAN LTD. Consulting Engineers. 021-822336							
JOB : j	Tet S.S. Kennelsfort Rd. DATE: 25-5-91 PAGE: 7							
1500%c	Purlin Strength Design D.L + L.L. Pt 1 = 1.5 x 0.22 (0.73) (1.24) (1.24) (0.73) + 1.5 x .65 x .9 . = 1.21 kn. Pt 2 = 1.5 x 1.1 x .9 1300 4400 1300 = 1.49 kn. Pt 3 = 1.5 x .65 x .9 = 0.88 kn. Deflection Design L.L. only. Pt 1 = 1.5 x .65 x .75 = 0.73 kn/m. Pt 2 = 1.5 x 1.1 x .75 = 1.24 kn.							
	55062 (Page 8)							
	Beam 0.77 lm Strength Design 3.84 km/m (0) D.L+L.L. (2.63)							
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
	Deflection Design. L.L. only. Pt 1 = 0 U.D.L = 3.5 x.75 = 2.63 Kn/m							
	254 x 146 x 31 (Page 9)							

•

```
CANTILEVER----SPAN----CANTILEVER.
BEAM DESIGN.
                     z==========
                      (COLD ROLLED SECTIONS c)
          1.30 m.
Span 1 =
                      Span.... 7.000 m.
Fascia... 1050 m.m.
Span 2 =
          4.40 m.
Span 3 =
          1.30 m.
                     Fascia...
              1.21 Kn.
1.49 Kn.
1.49 Kn.
0.88 Kn.
                          (LL+DL)
                                         0.73 Kn.
                                                  (LL.)
Pt.Load 1
            =
                                         1.24 Kn.
Pt.Load 2
Pt.Load 3
                                                  (LL.)
                           (LL+DL)
            =
                                         1.24 Kn.
                                                  (LL.)
                           (LL+DL)
                                         0.73 Kn. (LL.)
                          (LL+DL)
Pt.Load 4
               TRY 55062 MULTIBEAM. 157.00 cm<sup>4</sup>.
       Ixx
                22.30 cm<sup>3</sup>.
5.10 cm<sup>2</sup>.
       Zxx
             =
             =
       Α
                140.00 m.m.
             =
       D
                 2.23 cm.
       Ry
             **
                  1.58 m.m.
       t
             =
                73.00 m.m.
       В
DEFLECTION DESIGN.
-----
                                Span 3
                 Span 2
Span 1

    \begin{array}{rcl}
      d1 & = & 1.62 \\
      d2 & = & -2.37 \\
      d3 & = & -1.19
    \end{array}

          1.62 d1 =
-2.37 d2 =
-1.19 d3 =
                         13.32
  =
d1
                         -3.57
d2
    =
                         -3.57
6.18 -1.94 Total Deflections
          -1.94
                         22.00
                                        7.22 Allow. Deflections
           7.22
5.01
STRENGTH DESIGN
                                                         Mo
7.35
                                         7.28 kn.m.
M1 = 2.49 \text{ Kn.m.}
                             Mb
                                                        7.35
                                         5.79 kn.m.
                          4.40 Mb
                                    =
          4.81 Kn.m.
     =
M2
                                         7.28 kn.m.
                             Mb
                                    =
          1.81 KN.m.
REACTIONS.
=======
  Ra = 2.79 Kn.
Ra = 1.97 Kn.
                                 2.27 Kn.
                                             DL+LL.
                           Rb =
                   Rb = 1.97 Kn.
                                             LL.
```

JET S.S., KENNELSFORT ROAD, PURLIN

```
JET S.S., KENNELSFORT ROAD, BEAM 1
                   CANTILEVER----SPAN----CANTILEVER.
BEAM DESIGN.
                   0.00 m.
Span 1 =
Span 2 =
         7.80 m.
_{\text{Span}}^{-} 3 =
         2.35 m.
          = 0.00 Kn. (LL+DL)
= 3.84 Kn/m.(LL+DL)
= 0.77 Kp. (TL
                                   0.00 Kn. (LL.)
Pt.Load 1
                                   2.63 Kn./m.(LL.)
U.D.Load
Pt.Load 2
                                   0.00 Kn. (LL.)
      TRY 254 x 146 x 31
      = 4439.00 cm<sup>4</sup>.
   Ixx
                     cm^3.
              353.10
        = ...
   Zxx
               3.35
                     cm.
   Ry
        =
               -29.00
   D/t
DEFLECTION DESIGN.
_____
               Span 2
                             Span 3
Span 1
                                   0.00
               dl = -
                     13.60
                             d1 =
         0.00
d1 =
               d2 =
                                   1.08
                             d2 =
                      0.00
         0.00
d2
    =
         0.00
                             d3 =
                                   -3.98
               d3 =
                      -3.03
d3
                             d4 =
         0.00
0.00 10.56 -7.27 Total Deflections
                             13.06 Allow. Deflections
                      21.67
          0.00
STRENGTH DESIGN.
                                         Width
                        Stress at holes.
= 0.00 Kn.m.
= 29.20 Kn.m.
= 12.41 KN.m.
nt = 29.20 Kn.m.
ss = 82.70 N/m.m.^2
                                         146.00
                         0.00
M1
                            118.38
M2 =
M3 =
                             50.32
                            118.37
Moment =
Stress =
        29.00
D/t =
L/ry = 156.00
        5.23 m. Maximum Effective Length > 4.5 m.
Le =
REACTIONS.
                        = 26.36 Kn. (LL+DL)
Ra = . 13.38 Kn. Rb
                   Rb
                        =
                            17.37 Kn. (LL)
       9.33 Kn.
Ra
```

BENARD FINNEGAN LTD.	Consulting Eng	ineers.	021-822336
JOB: Jet S.S. Kennelsfort Rd.	DAT	E: 25-5	-9 PAGE:
	•		
Beam 2	-	- . 1	0.77 km
Strength Design		3.84 Kn/m	(0)
D.L+L.L.		(2.63)	 *
Pt1 = 0.77 km.		9.850	300
U.D.L = 3.84 Mm.		1.850	10-0
Deflection Design.			
L.L. only.			
Pt1=0	· · · · · · · · · · · · · · · · · · ·		
U.D.L = 2.63 Kn/m			
	305 x 65 x 4	40 (Page	<u>. [i]</u>
		<u> </u>	
Beam 3	0.771	-	18.87 Kn
Strength Design	0.77 kn.	84 Kn/m	(12.94)
D.L + L.L. Pt 1 = 0.77 kn.		2.63)	\(\frac{1}{2}\)
pt2=18.87km	*		一
U.D.L = 2.79/15	475D	8300	1700
+175×9+.4			· · · · · · · · · · · · · · · · · · ·
= 3.84 Kalm.	-		· · · · · · · · · · · · · · · · · · ·
		···	
Deflection Design.			
L.L. only.	= 12.94 Kn.		
Pt 1= 0 Pt 2 U.D.L = 2.63 Kn/m	= 1C194 Mn.		
U.D.C - C.63 MM/M			
	305 x165 x4C	Page 1	2)
		(
			
1			

```
CANTILEVER----SPAN----CANTILEVER.
BEAM DESIGN.
                   ---------
        0.00 m.
Span 1 =
Span 2 =
        9.85 m.
Span 3 =
         0.30 m.
Pt.Load 1
U.D.Load
                                0.00 Kn.
2.63 Kn./m.(LL.)
0.00 Kn. (LL.)
         =
                0.00 Kn. (LL+DL)
         =
               3.84 Kn/m (LL+DL)
               0.77 Kn. (LL+DL)
Pt.Load 2
     TRY 305 x 165 x 40
       = 8523.00
                    cm^4.
   Ixx
                    cm^3.
              561.20
   Zxx
             3.85
                     cm.
   Ry
        =
             29.90
   D/t
DEFLECTION DESIGN.
______
                             Span 3
               Span 2
Span 1
                                   0.00
               \begin{array}{ccc} d\overline{1} & = \\ d2 & = \end{array}
                             d1 =
         0.00
                      18.01
d1 =
                             d2 =
                                   0.00
                      0.00
         0.00
    =
d2
               d3 =
                             d3 =
                      -0.04
                                   -1.16
d3
         0.00
    =
                             d4 =
                                  -0.59
         0.00
d4
-1.75 Total Deflections
         0.00 17.97
                                  1.67 Allow. Deflections
                      27.36
         0.00
STRENGTH DESIGN.
STRENGTH DESIGN.
                        Stress at holes.
                                         Width
                                         165.00
                         0.00
     = 0.00 \text{ Kn.m.}
M2 = 46.57 Kn.m.

M3 = 0.40 KN.m.

Moment = 46.57 Kn.m.

Stress = 82.98 N/m.m.^2
                            113.16
                             0.98
                            113.16
        29.90
D/t =
L/ry = 156.00
Le = 6.01 m. Maximum Effective Length > 4.5 m.
REACTIONS.
                       = 20.87 Kn. (LL+DL)
= 13.75 Y-
             .FE _
Ra = 18.87 Kn. Rb
Ra = 12.94 Kn. Rb
                   Rb
```

```
CANTILEVER----SPAN----CANTILEVER.
BEAM DESIGN.
4.75 m.
Span 1 =
Span 2 =
         8.30 m.
          1.70 m.
Span 3 =
Pt.Load 1 = 0.77 Kn. (LL+DL) 0.00 Kn. (LL.)
U.D.Load = 3.84 Kn/m.(LL+DL) 2.63 Kn./m.(LL.)
Pt.Load 2 = 18.87 Kn. (LL+DL) 12.94 Kn. (LL.)
                                   12.94 Kn. (LL.)
      TRY 305 x 165 x 40
       = 8523.00 cm<sup>4</sup>.
= 561.20 cm<sup>3</sup>.
   Ixx
               561.20
   \mathbf{Z}\mathbf{x}\mathbf{x}
                 3.85 cm.
   Ry
                29.90
   D/t
DEFLECTION DESIGN.
         Span 2

0.00 d1 = 9.08

9.35 d2 = -7.31

10.70 d3 = -6.36
Span 3
Span 1
                               d\bar{1} =
                                        1.18
d1 =
                               d2 =
                                       0.15
    =
d2
                                d3 =
                                        2.81
đ3
    =
                                d4 =
                                        1.91
          3.93
\mathbf{d4}
-4.58 6.06 Total Deflections
23.06 9.44 Allow. Deflections
          23.98
          26.39
STRENGTH DESIGN.
                        Stress at holes. Width
___________________
M1 = 46.98 Kn.m.

M2 = 33.07 Kn.m.

M3 = 37.63 KN.m.

Moment = 47.00 Kn.m.

Stress = 83.75 N/m.m.^2

D/t = 29.90
                           114.15
                               80.35
                                91.43
                               114.20
L/ry = 155.00
Le = 5.97 m. Maximum Effective Length > 4.5 m.
REACTIONS.
=======
                                40.21 Kn. (LL+DL)
    = 36.07 Kn.
                     Rb
                           = ..
Ra
Ra = 23.87 Kn. Rb =
                                 27.86 Kn. (LL)
```

JET S.S., KENNELSFORT ROAD, BEAM 3 25-5-91.

BERNARD FINNEGAN LTD.	Consulting	Engineers.	021-8	22336
Jet S.S. Kennelsfort	Rd.	DATE : 25-9	5-91 PAG	E: 13
	40.2km	40.2km 40	.2 4.	40.2kg.
Beam 4 Strenath Design	(27.9)	· · · · · · · · · · · · · · · · · · ·	27·9	(27.9)
D.L+L.i.			······································	V
Pt 1, 2, 3, 4 =	-7.1	4.4 7.0	م ۹.۷	11.4
= 40.2 kn.	2200	7000		200
		• •	page 14	· 3
Deflection Design.		O= 158.60	•	
L.L.only.		l/my = 93,		-
Pt1, 2, 3, 4 = 27.9	Kin	= 35 5m		1
D = 10.3 mm < 12.2				
page 14	356 x171 x	45		
				v
Beam 5	-			
Strength Design	26.36 km	i .		
D.L.+L.L.	(17-37)	(17.37)		
Pt = 26.36 km.	<u> </u>			
		į		
Deflection Design.	SSDO	4800	4400)
L.L. only. Pt 1 = 17.37 kn.	<u>(i)</u>			,
Pt = 17.37 Kn.			,	
1		<u> </u>	<u> </u>	-
Note: all load is extends to a	Corrued by	Support NO	U. be	om 5
ealerds to C	nd is Connec	ted beams	<u> 10 2 to</u> 1111 .	provide
stability an which might	d allow for	any out of	Lalance /	loos
which might	t occur.			
•	3-6-16-00	2 (000, 15)		
	305 x 165 x 40	1 (Large 15)		
				
		·		· · · · · · · · · · · · · · · · · · ·
				···
				· · · · · · · · · · · · · · · · · · ·

BERNARD FINNEGAN LTD.	PAGE 1 JOB NO.
JET S.S., KENNELSFORT ROAD BEAM 4	RUN NO. 1 AUTHOR BF DATE 25-5-91.
EN102: PLANE FRAME ANALYSIS V2.7 Units: S.I. METRIC (Steel)	ENCAD SYSTEMS LTD. 19 Data File: KENNEI
Basic Load Case B2 : SUPER ONLY Joint Displacements	
JOINT X LINEAR Z LINEAR Y ROTATION (mm) (rad)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•
Basic Load Case B1 : DEAD + SUPER	
Member End Stresses	
Ax By YAXIS Ax Ax MBR JOINT AXIAL BENDING +ABS.By -ABS.1 (N/mm2) (N/mm2) (N/mm2)	
4 4 .0000 .00000000 .0	0000 0000
4 5 .0000 -128.6400 128.6400 -128.6	 -
Basic Load Case BI: DEAD + SUPER Support Reactions JOINT X FORCE Z FORCE Y MOMENT (kN) (kNm) 2 .0000 80.4000 .0000	:
Basic Load Case B2 : SUPER ONLY Support Reactions	
JOINT X FORCE Z FORCE Y MOMENT (kN) (kNm)	
2 .0000 55.8000 .0000	- ·
•	
Section Properties N.B. If a Shear Area value field is null (empty), shear distortions are ignored in the analysis.	
SECTION TABLE REF./ NO. DESCRIPTION AREA Ax IY (cm2) (cm4)	AZ SHEAR ZMAX AREA (mm) (cm2)
1 356*171*45 UB 5.700E+01 1.210E+04 1	.760E+02 2.266E+01
Member Details	
Member Details MEMBER y AXIS SECTION MATERIAL NO. FLEXURE GROUP GROUP TYPE NO.	
1 1 1	

JET S.S., KENNELSFORT ROAD, BEAM 5 25-5-91.

BERNARD FINNEGAN LTD. Consulti	ng Engineers. 021-822336
JOB: Jet S.S. Kennelsfort Rd	DATE: 25-5-9 PAGE: 16
Beam 6	
Strength Design	20.87km. 20.87km
D.L+L.L.	(13.75) (13.75)
Pt 1= 20.87 kn.	
Pt 2= 20.87 km.	12600 2200
4400) 4800 2200
Deflection design L.i. only Pt I = Pt 2 = 13.75 kn.	
L.i. only	
Pt1 = Pt2 = 13.75 kn.	
Note: as for beam 5	
	254 × 146 × 31 (Page 17)
Column Design.	-
Main Column	
Case 1: D+S+Wind	
Load = 80.4 K	
$5.2 \qquad \qquad M_{x\alpha} = 1.09 \times 9$.93x (.53+4.2+.45)/2 = 28 kn m
$My = 1.09 \times 7$	$\times 5.18/2 = 19.8 \text{ kn.m.}$
V	
Case 2: D+Wind.	
	$0.27 \times 9.93 \times 7 = 5.8 \text{ m}$
Moca = 28 km	The state of the s
My = 19.8 K	ŋ.m.
	000 10 (010)
400 x	200×10 (Page 18)
•	No. 1
	- · · · · · · · · · · · · · · · · · · ·

•

COM	IPOUND	BEAM DESI	GN		
A1 = A2 =	0.00	m •			
A3 =	2.20	m.			
LOADING					
t.load 1	=	0.00	Kn.(L.L.+D.L.)	Kn.(L.L.)	
t Load 2	=		Kn.(L.L.+D.L.)	Kn.(L.L.)	
Pt.Load 3	=	20.87	Kn.(L.L.+D.L.)	13.75 Kn.(L.L.)	
BENDING MOME					
======== M1 =			•	-	
M2 =					
SECTION SIZE	s		·		
	==	Beam 1			
		254 x 146	5 x 31	<u> </u>	-
Ixx (cm^2)	:	4439.00			
Zxx (cm ³)		353.10	·		
Ry (cm)	:	3.35		<u></u> -	
D/t	:	29.10		•	
Moment 1	:	45.92		Kn.m.	
Stress		130.04		N./m.m.^2	
D/t	:	29.10			
L/ry	:	95.00			
Le .	:	3.18	m. > 2.2	m. Max.Eff.Length.	
Moment 2	:	0.00	Kn.m.		
Stress	:	0.00	N./m.m.^2		
D/t	:	29.10			
L/ry	:				
Le	:	0.00	m. Max.Eff.Length.		
n war namen		31 -	0.00 m.m.		
DEFLECTION		d1 = d2 =	0.00 m.m.		
=========		d3 =	5.24 m.m.		
•		d3 =	0.00 m.m.		
Total Defle	 ction		5.24 m.m.		
Allowable d		ion =	12.23 m.m.		

```
MAIN COL.
COLUMN DESIGN.
                       CASE 1 CASE 2
80.40 5.80 KN.
28.00 28.00 KN.M.
0.00 0.00 KN.M.
19.80 19.80 KN.M.
______
Max. Load.

Moment x-x (a)
Moment x-x (b)
Moment y-y
                                          4.65 M.
                                4.65
                   =
Height
                                         9.30 M.
                                 9.30
Eff. Length x-x
                                        9.30 M.
0.00 M.
                                 9.30
                   =
Eff. Length y-y
                                 0.00
Canopy Width.
                   TRY 400 X 200 X 10 R.H.S.
                                        116.00 cm<sup>2</sup>
                                   1207.00 cm<sup>3</sup>
          Z x-x
                                       814.00 cm<sup>3</sup>
                   =
                                    814.00 cm 3
24140.00 cm 4
          Z y-y
                   =
          x-x I
                                     8138.00 cm<sup>4</sup>
                   = __
          I y-y
                                        8.39 cm.
          ry
          D/t
                          3.98
25.83
8.35
25.83
                                         3.98 m.m.
Lateral Defl. x-x =
                                          25.83 m.m.
Allow Defl. x-x =
Lateral Defl. y-y =
                                         8.35 m.m.
Allow Defl, y-y =
                                          25.83 m.m.
                          0.00 0.00 m.m.
 Edge Defl.
                                         0.00 m.m.
                                0.00
Allow. Edge Defl. =
 STRENGTH DESIGN.
 Compression.
                              110.85 110.85
          Leff./ry = Pc =
                               66.41 66.41 N./m.m.^2
                                          0.50 N./m.m.^2
                                6.93
          Ax.Str. =
 Bending.
                              55.42
0.00
                                          55.42
          Leff./ry =
                                         0.00
          D/t =
                              165.00 165.00 N./m.m.^2
                   =
          Pcb.
                               23.20 23.20 N./m.m.^2
          Bend.Str.=
                                0.24 0.15 < 1.0
 COEFFICIENT
```

JET S.S., KENNELSFORT ROAD,

25-5-9

JET S.S., KENNELSFORT ROAD,

25-5-91.

	BASEPLATE	DESIGN		RECTA	NGULAR	COLUMN			
DIMENSIONS	 5.				LENGTH	WIDTH	THICK		
		COLUMN : BASEPL : H.D. BOL STIFFS	TS	: :	400 600 3 2	200 400 2 150	20 24 12		. :
LOADING.	<u> </u>			CAS	SE 1 	CAS x-x	SE 2 Y-Y		
		LOAD MOMENT	:	85.4 28.0	85.4 19.8	10.8 28.0	10.8 19.8	Kn. Kn.m	•
RESULTANT					_ ACT	JAL		ALLOW	ABLE
Depth to Compressi Tensile F Stress in BSPL bend Stiff. be Actual H. Required BSPL bend Stiff. be	ve Force. orce grout un . stress nding str D.Tension H.D.Tensi	der BSPI at columness	nn	100.3 14.9 2.9 51.8 5.0 6.9	104.0	51.6 1.8 32.2 17.2 24.1 84.7	57.5 2.1 87.8 28.7	6.5 206.0 206.0 57.4	N./mm2 N./mm2 Kn. Kn. N./mm2

JET S.S., KENNELSFORT ROAD, MAIN FOUND.

25-5-91.

F:	OUNDATION I				، کندے و شدے ہے بدرے ہی	
		CASE 1	CASE 2	CASE 3		
Max. Load	= .	85.40	10.80	0.00	KN.	
Noment X-X	=	31.92	31.92	0.00	KN.M.	
Noment Y-Y	=	22.57	22.57	0.00	KN.M.	
Miche 1 1						
Base Length	=	2.20	2.20 2.20	2.20 2.20	M. M.	
Base Width	= '	2.20	0.60	0.60	М.	
Base Thickness	=	0.60	0.00	0.00		
Base Area	= .	4.84	4.84	4.84		
Base Z x-x	=	1.77	1.77	1.77		
Base Z y-y	=	1.77	1.77	1.77	M^3.	
	~=					
TRESSES UNDER BA	ASE :	17.64	2.23	0.00	$KN./M^2.$	
Super Load	= .	7.20				
Soil	= .	14.40				
3ase	=	17.99			•	
Wind x-x		12.72	12.72	0.00		
Wind y-y	=	12.72	12.72			
MAX. STRESSES :				21 62	**** /84^^	< 100
Wind x-x	=	57.23	41.82	21.60		< 100
wind y-y	=	51.96	36.55	21.60	$KN./M^2$	₹ 100
MIN. STRESSES :		•				. ^
Wind x-x	=	21.26	5.84	21.60		> 0 > 0
Wind y-y	=	26.53	11.11	21.60	KN./M^2	7 0
FACTOR OF SAFETY	•					
O.T.M. X-X		31.92	31.92	0.00	KN.M.	
	=	115.00	115.00	115.00	KN.M.	
R.M. x-x	<u>=</u>	3.60	3.60	0.00		> 1.5
F.O.S. x-x		•				
о.т.м. у-у	=	22.57	22.57	0.00	KN.M.	
R.M. Y-Y	=	115.00	115.00	115.00	KN.M.	
F.O.S. y-y	=	5.09	5.09	0.00		> 1.5
• -						
FOUNDATION REIN	FORCEMENT					-
Presure under f	oundation	=		$kn./m^2$.		
riesure unuer z		= . 1 ⁻	92.80	$kn./m^2$.	(gross)	
•	Moment	=		kn.m.		
	M/bd^2fcu	=	0.006			
	ri, pu zrea Z	= .		m.m.	•	
	Ast	=		m.m.^2 /	m.	
					m.m.^2 / m	. •
Minimum p	ercentage	_	1010	m.m.^2 /	mProvid	ed.
ActualT16	₩ ZVV C/C	- . <u>-</u> .				_=

BERNARD FINNEGAN LTD. Consulting Engineers. 021-822336							
Jul: Jet S.S. Kennelsfort Road DATE: 25-5-91 PAGE: 21							
Rear Column. Stub Column only required, use 200 x 200 x 6.3.							
Reactions for design of stub column supports.							
Case 1: D+S+Wind // to shap $(x-x)$ Load = $2 \times 26.36 = 52.72 \text{ kg}$. Fx = $1.09 \times 7.1/2 = 3.9 \text{ kg}$.							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
Fy = 0 Case 3: D + Wind Y-Y Load = 7.12x2 - 0.71x7x7.1 = -21 knm.							
Fy = O							
•							

DUBLIN COUNTY COUNCIL

Tel. 724755 (ext. 262/264)

PLANNING DEPARTMENT, BLOCK 2, IRISH LIFE CENTRE, LR. ABBEY STREET, DUBLIN 1.

Notification of Decision to Grant Parmission (Planning and Development) Acts, 1963-1983 Ryam O'Brien Handy Assocs. Decision Order P(3217/91 - 12.07.1991 To Percy Place, Register Reference No 91A/0796 Dublin 4: Planning Control No. 17.05.1991 Application: Concord Treland Ltd. Planning Control No. 17.05.1991 Application: Concord Treland Ltd. Planning Control No. 17.05.1991 The pursuance of its functions under the above-mentioned Acts, the Dublin County Council being the Planning Authority for the County Health District of Dublin, ald by Order dated as above make a decision to grant Permission Control Treland Ltd. Petrol Filling Station including revised Correctift Tayout, replacement canopy and Shopf/store Dulliding at Rennelsfort Road, Palmerstown SUBJECT TO THE FOLLOWING CONDITIONS 1. The development to be carried out if its entirety in accordance with the Plain's particulars and specifications Todged with the chear conditions attached hereto application, save as may be required by the other conditions attached hereto approval under the Puilding Bye-Laws be obtained, and all conditions of that approval under the Puilding Bye-Laws be obtained, and all conditions of that approval be observed in the development. 3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development. 4. That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development. 5. Details of landscaping and boundary treatment to be agreed prior to commencement proper ylanning and development of the area. Signed on behalf of the Dublin County Council Development of the area. Signed on behalf of the Dublin County Council Development of the Property Planning and development of the Planning and development of the Planning and development of the Chief Planning and development of the Planning and development o	යේ වූ වැන්නිව දැන්නි සිතිව දැන්නිව සිට සිට ප්රතියාව සිට	ាស្ថាប្រាស់ 19 សាលា គ្នាស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស
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Ryan O'Brien Handy Assocs., Decision.Order P/3217/91 -12.07.1991 6 Percy Place, Register Reference No. 91A/0796 Dublin 4. Planning Control No. 17.05.1991 Conocco Treland Ltd. Planning Control No. 17.05.1991 Application. Received on 17.05.1991 Conocco Treland Ltd. Planning Activities the Planning Authority for the County Health District of Dublin. Bid by Order dated as above make a decision to grant Permission for radeyslopment of Jet Petrol Filling Stafion including revised furecourt Tayout, repTagement canSpy and snot/store Duilling at Kennelsfort Road, Palmerstown SUBJECT TO THE FOLLOWING CONDITIONS 1. The development to be carried out in its entirety in accordance with the pTans particulars and specifications 104ged with the application, save as may be required by the other conditions attached hereto. 2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development. 3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development. 5. Details of landscaping and boundary treatment to be agreed prior to commencement of development of the Dublin County Council For Pricipal Officer Signed on behalf of the Dublin County Council	Local Government (Planning and Developmen	t) Acts, 1963-1983
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In pursuance of its functions under the above-mentioned Acis, the Dublin County Leath District of Dublin, did by Order dated as above make a decision to grant Permission. redevelopment of Jet Petrol Filling Station including revised for redevelopment and specifications. SUBJECT TO THE FOLLOWING CONDITIONS 1. 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. 2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development. 3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development. 4. That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development. 5. Details of landscaping and boundary treatment to be agreed prior to commencement of development of the Dublin County Council Signed on behalf of the Dublin County Council Signed Signe	6 Percy Place, Register F	eference No.
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The County Health District of Dublin, did by Order dated as above make a decision to grant Permission— redevelopment of Jet Petrol Filling Station including revised forecourt layout, replacement cambry and shop/store building at Kennelsfort Road, Palmerstown SUBJECT TO THE FOLLOWING CONDITIONS 1. The development to be carried out in its entirety in accordance with the plans, particulars and specifications Todged with the application, save as may be regulired by the other conditions attached hereto. 2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development. 3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development. 4. That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development. 5. Details of landscaping and boundary treatment to be agreed prior to commencement of development of the Dublin County Council Signed on behalf of the Dublin County Council Signed on behalf of the Dublin County Council	彩文·469	TO COLOR OF BUSINESS AND AND S
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Environmental Health Officer be ascertained and strictly adhered to in the development. 4. That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development. 5. Details of landscaping and boundary treatment to be agreed prior to commencement of development. 5. In the interest of the proper planning and development of the area. 5. In the interest of the proper planning and development of the area.	approval under the Building Bye-Laws be obtained, and all conditions of that	the Sanitary Services Acts,
Officer be ascertained and strictly adhered to in the development. 5. Details of landscaping and boundary treatment to be agreed prior to commencement of development. 5. In the interest of the proper planning and development of the area. Signed on behalf of the Dublin County Council For Principal Officer	Environmental Health Officer be ascertained	
treatment to be agreed prior to commencement proper planning and development. Signed on behalf of the Dublin County Council	Officer be ascertained and strictly adhered	and the avoidance of fire
For Principal Officer	treatment to be agreed prior to commencement	proper planning and
	Signed on behalf of the Dublin County Council	For Principal Officer 12th July, 1991.

IMPORTANT: Turn overleaf for further information

- 6. That a financial contribution in the sum of £1,269. be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of which and proposed development this this development; facilitate the be paid before contribution to commencement of development on the site.
- 7. That a financial contribution in the sum of £1,500. be paid by the proposer to the Dublin County Council towards the cost of provision of roads 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.
- 8. That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council.
- 9. That the boundary walls with adjoining rear gardens of residential properties be increased in height to 2 metres and be suitably capped and finished. Those sections of existing boundary walls suffering from structural failure to be replaced. Details to be agreed with adjoining residents of failing agreement to be as determined by the Planning Authority.

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- 6. The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developers should contribute towards the cost of providing the services.
- 7. 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.
- 8: In order to comply with the Sanitary Services Acts 1878-1964.
- 9. In the interest of the proper planning and development of the area.

Limbe of the

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4 May 1921 2

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If 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 appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

ভান ভাৰত প্ৰতিষ্ঠিত হৈছে । ইয়া ভাৰত ভাৰত বিশ্ব

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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 the decision.

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

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

(1) An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by a fee of £36 (Thirty-six Pounds). (2) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, in addition to (1) above, pay to An Bord Pleanala a fee of £36 (Thirty-six Pounds). (3) A person who is not a party to an appeal must pay a fee of £10 (Ten Pounds) to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

Approval of the Council under Building Bye-Laws must be obtained 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.

FUTURE PRINT LTD.

27/6

ROBH ARCHITECTS & DESIGNERS

Ryan O'Brien Handy Associates

6 Percy Place Dublin 4

Telephone 680 899 Facsimile 680 089

ND/MR/3017

911/0796

26th June 1991

ti. 1 (1)

Dublin County Council, Planning Department, Block 2, Irish Life Centre, Lower Abbey Street, DUBLIN 1.

REDEVELOPMENT OF JET PETROL STATION AT KENNELSFORT ROAD, PALMERSTOWN, DUBLIN 20 REGISTER REFERENCE NO. 91A/0796

Dear Sir,

I enclose copies of the structural calculations for the proposed building and canopy in relation to the above development.

If you have any questions relating to these calculations please contact this office.

Yours faithfully,

NOEL DOYLE

111 Wellington Street Luton LU1 5AF

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

Denis Whelan RIAI (TECH) Kennelh McEwan BSC (HONS) Noel Doyle

ARTHUR W. WEST & ASSOCIATES

CONSULTING ENGINEERS

Arthur W. West, B.A.I., C. Eng., M.I.E.I. Roger P. West, B.A.I., M.Sc., D.I.C., C.Eng., M.I.E.I.

Our Ref: 857

Your Ref:

Date: 24.6 9/

25 Cambridge Road,

Telephone: 977197.

Rathmines, Dublin 6.

JET PETROL STATION

KENNELSFORT RD.

ARCHITECTS: Ryan O'Brien Handy. Refer to our DRG. No. 857/3994. BOLIN CON . COUNCIL

2 7 JU: 1991

ATLICATION TYPE OPPIAIBBLE

ROOF LONDINGS:

chipping's lollalo'

10

Joists ele Ceiling

5

Services

5

Superimposed

30

60 lhs/0

Span of joists 11 FV

M= 1/8 + 60+112+12 = 10,890 in 1km

Using 7" x2" e 12" Hol = 16 + 2 + 7 +750 = 12,250 inthe

SPAN of ROOF BEAM 23 fr.

Local for = 11x60 = 660 lbs

M= 1/8 + 660 + 23 +12 = 234 intes

72 234 . 223. Use. 10 x5 1/4 x 25 U.B

PIEN Reaction = 660 + 23 = 7590 /4.

Provide 750 x 215 x 200 deep conc. bearing pad

Average pressure = 7500, 32/4/2 8atistactory

857 JET STN. AT LENNELS FICKT RD.

FOUNDATIONS TO 750 x 445 RISING Pier Roof Loca = 7590 1/2.

Dead wt of pier = 12x2.5 x 150 = 4500

Load from Lintol = 11x600 = 6600

18,690 165.

Pier load spread at foundations at 2.3'+2×2.0'=6.3'
Using 1.1 founds ×300 deep vembreed with 1+.T. Hesh.
6@100; 7@200

Average ground pressure = 18,690 = 821 /m/a'

Satisfactory subject to sife continuation.

20 + 20" LINTOL OVER WINDOWS & DOOR at Front

Dead Wr of conc. = 20+20 = 400/b/h

Parapet = 2' + 8 / 12+144 = 200 / 600/m/h

 $M = \frac{1}{10} = 600 + 9^{2} + 12 = 58,300 \text{ in the}$ $A_{5} = 58,300 = 0.14 + 89.05$ $30,000 \times .8 \times 18$

Use. 3 No. 12mm bars tops bothom
10mm shrrups e 300 c/s.



BERNARD FINNEGAN LTD.

CONSULTING ENGINEERS

5 MILLBROOK CLOSE, SALLYBROOK, GLANMIRE, CO. CORK. Telephone 021-822336. Fax No. 021-821776

CALCULATIONS

FOR

CANOPY

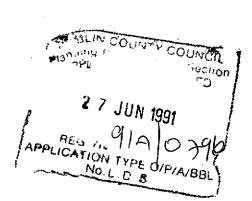
FOR

JET SERVICE STATION,

KENNELSFORT ROAD,

PALMERSTOWN,

DUBLIN 20.



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

25 May 1991.

NOTES ON CALCULATIONS.

1.0 LOADING

- 1.1 LIVE LOAD complies with B.S. Code of Practice CP. 3, Chapter V, Loading: Part 1 (1967): Dead and Imposed Loads (Metric Units).
- 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 450 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.

BUILDER'S WORK DURING CANOPY ERECTION.

- 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		CLIENT S.F.L. Engineering Ltd PROJECT	DRAWN BY B.F. SCALE 1:7.5		
5 MILLBROOK CLOSE		General Details	DATE 23-10-90		
SALLYBROOK GLANMIRE, CO. CORK.	TEL 021-822336 FAX 021-821776	DRG. TITLE Grouting Detail.	DRG.NO.		

JET S.S., KENNELSFORT ROAD,

Wind Suction

Wind Suction

25-5-91.

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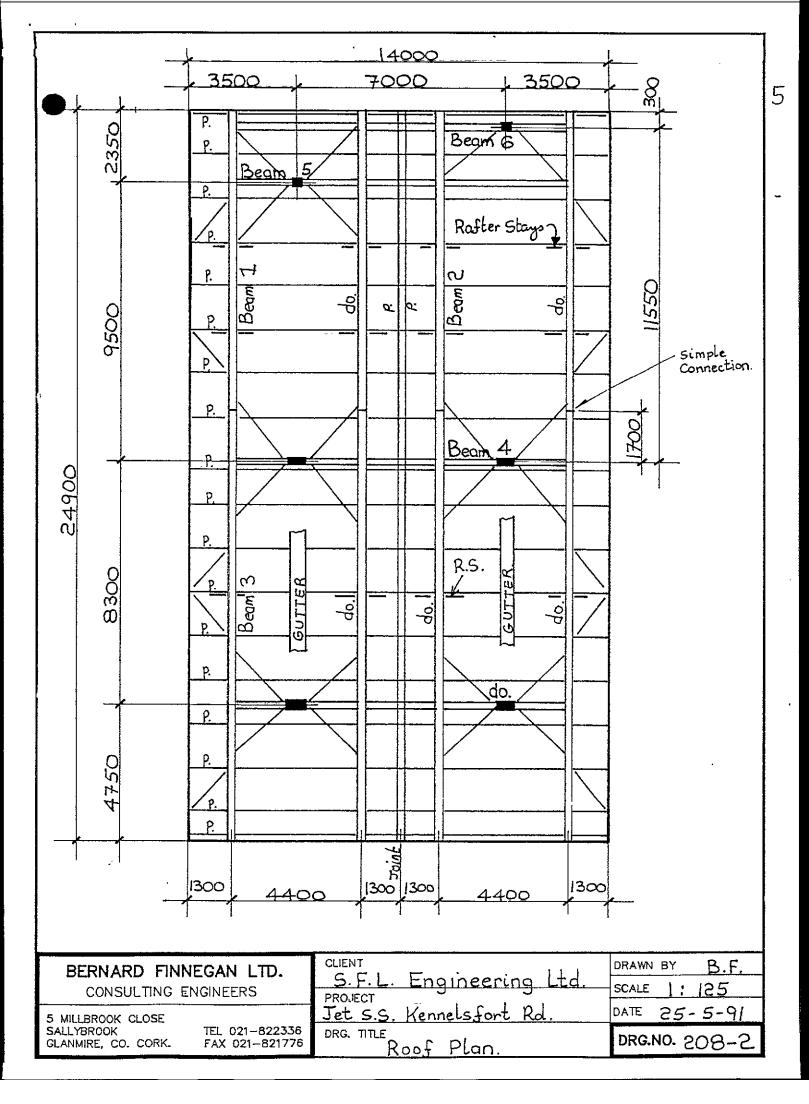
-1.3)blocked -0.5)unblock.

LOADING.

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1. Superimposed Loading : 0.75 Kn/m^2. C.P.3. Chapter V 2. Dead Loading : 0.15 Kn /m^2. Deck, Purlins, Soffit 3. Fascia 1050 deep : Weight/m. = 0.22 kn. / m. 4. Wind Loads. Basic Wind Speed 46 m./sec. ☲ . 1.00 s1= 0.65 (Ground Roughness 3, Class B) s_2 s_3 1.00 ۷s 29.9 m./sec. 0.55 km./m^2 q Fascia Horz. Load 1.09 kn./m(Cp 1.9) 0.16 kn./m^2 (Cp Wind Pressure 0.3) -0.71 kn./m^2 -0.27 kn./m^2 qD)



BERNA	RD FINNEGAN LTD. Consulting Engineers. 021—822336								
JOB : J	et S.S. Kennelsfort Rd. DATE: 25-5-91 PAGE: 6								
	Section Sizes								
									
	Fascia 1 1050 x 1.5								
	Ht to u/side 1 4200								
	Roof purlin 1 7,55062								
	Ceiling purlin Pl : 5:55062 @ 1500 dc.								
	Beams 1, 6 1 254 x 146 x 31 (Stiffs at commo Rafter Stays)								
	Beam 5 2, 3, 5 305 × 165 × 40 (" " " " ")								
	Beam 4 : 356 × 171 × 45 (" " ", Stiffs at col)								
	Main column : 400 x 200 x 10								
	Base plate: 600x 400x 20, 6/24 bolts Standard.								
	Rear column 1 200 x 200 x 6.3.								
	Main Found : 2200x2200x600								
	Rear Col. Support: By Others, see design forces below.								
-	actual forces, on each column at fascia level (Rear col)								
	+ means down, forces are in kn, see page 21								
	W Fa Fy								
	Case 1 53.0 4.0 0								
	Case 2 0.8 4.0 0								
	Case 3 -21:0 0 0								
	Note: Beams 546 require stiffs at colo.								
	· · · · · · · · · · · · · · · · · · ·								

BERN	ARD FINNEGAN LTD.	Consulting Eng	ineers.	021-822336				
JOB:	Jet S.S. Kennelskort Rd.	DAT	E: 25-5	-91 PAGE: 7-				
			<u> </u>					
	Purlin							
	Strength Design							
			1kg 1.49 kg					
1500%c	Pt = 1.5 x O . 22 (O.73) (i 24	(1.54)	(c.73)				
	+1.5 x . 65 x . 9		$\overline{\downarrow}$					
	= 1.21 kn.							
: 		300 4	400	1300				
	= 1.49 km							
	Pt 3 = 1.5 x.65 x.9 = 0.88km. Deflection Design							
	L.L. only.							
	Pt 1 = 1.5 x .65 x .75 =	0.73 1/15						
	Pt 2 = 1.5 x 1.1 x.75 =	. /						
	55062 (Page 8)							
			\'-0/-					
	Beam			0.77 La				
	Strength Design		3.84 Kn/m	(0)				
	D.L + L.L.		(2.63)					
<u> </u>	Pt = 3.5 x 0.22							
	= 0.77 kg	-	1800	2350				
	U.D.L = 2.79/1.5			·····				
	+1.75 x.9 +.431.	4						
	= 3.84 kn/m.	<u> </u>						
	Deflection Design.							
· · · · · · · · · · · · · · · · · · ·	L.L. only.		······································					
	pt 1 = 0							
	$0.D.L = 3.5 \times .75 = 2.6$	3 Kylm						
			1.0					
	,	254 X146	x31 (Page	29)				

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CANTILEVER----SPAN----CANTILEVER.
BEAM DESIGN.
                   1.30 m. (COLD ROLLED 2201..... 7.000 m. 1.30 m. Fascia... 1050 m.m.
                   (COLD ROLLED SECTIONS c )
Span 1 = 1.30 \text{ m}.
Span 2 =
Span 3 =
                                   0.73 Kn.
                                           (LL.)
Pt.Load 2 = 1.21 Kn. (LL+DL)
Pt.Load 3 = 1.49 Kn. (LL+DL)
Pt.Load 4 = 0.88 Kn. (LL+DL)
               1.21 Kn. (LL+DL)
Pt.Load 1 _ =
                                   1.24 Kn.
                                           (LL.)
                                   1.24 Kn.
                                           (LL.)
                                   0.73 Kn.
                                           (LL.)
             TRY 55062 MULTIBEAM.
      Ixx = 157.00 cm^4.
          = 22.30 cm<sup>3</sup>.
      Zxx
              5.10 cm<sup>2</sup>.
      Α
           =
      D
           = 140.00 m.m.
           =
              2.23 cm.
      Ry
           = 1.58 m.m.
      t
              73.00 m.m.
      R
DEFLECTION DESIGN.
Span 3
d1 =
d2 =
Span 1
                                  1.62
d1 =
                     -3.57
                                  -2.37
d2
               d3 = -3.57
                            d3 = -1.19
d3
______
                     6.18
                                  -1.94 Total Deflections
        -1.94
                                 7.22 Allow. Deflections
         7.22
                     22.00
5.01
STRENGTH DESIGN
                                                _ Mo
__7.35
Mb
                                   7.28 kn.m.
         2.49 Kn.m.
                                   5.79 kn.m.
                                                7.35
                      4.40 Mb
                               =
         4.81 Kn.m.
м2
                                   7.28 kn.m.
                                                7.35
                        Mb
        1.81 KN.m.
м3
REACTIONS.
=========
                           2.27 Kn.
                                      DL+LL.
        2.79 Kn.
1.97 Kn.
  Ra =
                       Rb =
                                      LL.
                       Rb =
                             1.97 Kn.
  Ra =
```

JET S.S., KENNELSFORT ROAD, PURLIN

```
CANTILEVER----SPAN----CANTILEVER.
BEAM DESIGN.
                    ========
         0.00 m.
Span 1 =
         7.80 m.
Span 2 =
span 3 =
         2.35 m.
           = 0.00 \text{ Km. (LL+DL)}
                                    0.00 Kn. (LL.)
Pt.Load 1
          =
                                    2.63 Kn./m.(LL.)
U.D.Load
                3.84 Kn/m.(LL+DL)
                                     0.00 Kn. (LL.)
Pt.Load 2
          =
                0.77 Kn. (LL+DL)
      TRY 254 x 146 x 31
             4439.00
                      cm<sup>4</sup>.
       =
   \mathbf{I}\mathbf{x}\mathbf{x}
                     cm<sup>3</sup>.
       =
               353.10
   \mathbf{Z}\mathbf{x}\mathbf{x}
               3.35
                      cm.
   Ry
                29.00
   D/t
DEFLECTION DESIGN.
---------------
                             Span 3
                Span 2
Span 1
                                    0.00
                      13.60
                             d1 =
                d1 =
d1
         0.00
               d2 =
                             đ2 =
                                    1.08
                      0.00
đ2
    =
         0.00
               d3 =
                                    -3.98
         0.00
                      -3.03
                             d3 =
d3
                             d4
         0.00
d4
10.56 -7.27 Total Deflections
         0.00
                                   13.06 Allow. Deflections
                      21.67
          0.00
STRENGTH DESIGN.
                                          Width
                     Stress at holes.
M1 = 0.00 Kn.m.

M2 = 29.20 Kn.m.

M3 = 12.41 KN.m.

Moment = 29.20 Kn.m.

Stress = 82.70 N/m.m.^2
                         0.00
                                          146.00
                             118.38
                             50.32
                             118.37
        29.00
D/t =
L/ry
     = 156.00
Le = 5.23 m. Maximum Effective Length > 4.5 m.
REACTIONS.
=======
        13.38 Kn.
                              26.36 Kn. (LL+DL)
17.37 Kn. (LL)
                       =
                    Rb
    = -9.33 Kn.
                    Rb
```

JET S.S., KENNELSFORT ROAD, BEAM 1

BERNARD FINNEGAN LTD.	Consulting	Engineers.	021-	822336
JOB: Jet S.S. Kennelsfort Rd.		DATE : 25-	5-91 PA	GE:
Beam 2	= = 	<u>. </u>		0.77 km
Strength Design		3.84 Km	m	(0)
D.L+L.L.		(2.63)		·
Pt1 = 0.77 km			 	
U.D.L = 3.84 Mym.		9.850		300
Deflection Design				
L.L. only.				
Pt1=0			<u> </u>	
U.D.L = 2.63 Kn/m			· · · · · · · · · · · · · · · · · · ·	,
	305 x 165	5 x 40 (Pag	je li)	
	·			· · · · · · · · · · · · · · · · · · ·
Beam 3				<u>-</u>
Strength Design	0.77 kn.			18.87 Kn
D.L. + L.L.	(0)	3.84 Km/n	۸	(12.94)
Pt1 = 0.77 kn.	1	(5.63)		
pt2=18.87kn	/			7
U.D.L = 2.79/1.5	4750	8300	<u> </u>	700
+175x.9+.4	······································			
= 3.84 kn/m.				
				-
Deflection Design.				
L.L. only. Pt 1= 0 Pt 2	= 12.94 Kr	1 da		
U.D.L = 2.63 Ku/m	- 10.3470		-	- -
U.D.C - C.O.S Mu/m	. 2 3			
. 3/	05 x 65 x	40 (Page	(SI	
	<u> </u>	(
			 	
·				
*	······································			· · · · · · · · · · · · · · · · · · ·
	4 - 4			· · · · · · ·

.

JET S.S., KENNELSFORT ROAD, BEAM 3

BERNARD FINNEGAN LTD	. Consulting	g Engineers.	021-822	336
GOB: Jet S.S. Kennelsfort	Rd.	DATE: 25-9	5-91 PAGE:	13
		· · · · · · · · · · · · · · · · · · ·		
Beam 4	40.2km	40.2km 40		0.2kg.
Strength Design	(27-9)	(27-9)	27.9	(27-9)
D.L+L.L.	<u> </u>	$ \psi$ ψ		¥
Pt 1, 2, 3, 4 =	2.1			11-4
= 40.2 kn.	5500	7000	2200)
		1.	page 14	
Deflection Design.	· · · · · · · · · · · · · · · · · · ·		4 N/mm D/	
L.L.only.	1,	l/ry = 93,		- 3x 37-8
Pt 1, 2, 3, 4 = 27.9		= 35/5 m)	> 2.6m.	
0 = 10.3 mm < 12.5 $= 10.3 page 14$		15	<u></u>	
— page 14	JUB XITIX	'1		
Beam 5				
Strength Design	26.36 ku	26.36 km		
D.L + L.L.	(17.37)	(17.37)		
Pt = 26.36 kn.	<u> </u>			
	1 2	200		<u> </u>
Deflection Design.	SSOO	4800	4400	1
L.L. only. Pt 1 = 17.37 kn.	<u> </u>			· · · · · · · · · · · · · · · · · · ·
Pt 1 = 17.37 kn.				
1.1 00 0 1.	· i (•	
Note: all load is	s corred by	Support No	U. Beam	5
eatends to a	ind is Connec	ted beams r	1.0.2 to pro	oide 1
Stability an	nd allow for It occur	any out of	Calance Lood	3
which migh	u our	 		
·	305 x 165 x 40) (Page 15)		
	<u> </u>			
			· · · · · · · · · · · · · · · · · · ·	·
·				

BERNARD FINNEGAN LTD.		**************************************	PAGE JOB NO.	1
JET S.S., KENNELSFORT ROAD BEAM 4			AUTHOR DATE	BF 25-5-91.
EN102: PLANE FRAME ANALYSIS V Units: S.I. METRIC (Steel)	2.7	,	(c) ENCAD SYS	STEMS LTD. 19 File : KENNEI
Basic Load Case B2 : SUPER ON Joint Displacements				
(mm) (mm)	ROTATION (rad)			
1 .00000 -10.32401 3 .00000 1.65257	00544	-	·	
Basic Load Case B1 : DEAD + S Member End Stresses	UPER			-
Ax By y MBR JOINT AXIAL BEND (N/mm2) (N/m	ING / +AB	S.By —	Ax ABS.By N/mm2)	· ,
2 3 .0000 4 4 .0000	.0000	.0000	128.6400 .0000 .0000 128.6400	į
Basic Load Case B1 : DEAD + S Support Reactions	UPER			
JOINT X FORCE Z FORCE (kN) (kN)	Y MOMENT			e de la companya de l
2 .0000 80.4000	.0000	, -	.	-
Basic Load Case B2 : SUPER ON Support Reactions	LY			
JOINT X FORCE Z FORCE (kN)	Y MOMENT (kNm)	•		
2 .0000 55.8000	.0000			
Section Properties N.B. It a Shear Area value fi shear distortions are ig	eld is null nored in th	(empty), e analysis	·	
SECTION TABLE REF./ NO. DESCRIPTION	AREA Ax	Iy (cm4)	zMAX (mm)	Az SHEAR AREA (cm2)
1, 356*171*45 UB	5.700E+01	1.210E+04	1.760E+02	2.266E+01
Member Details MEMBER y AXIS SECTION MATE	RIAL -			:
MEMBER VAXIS SECTION MATE NO. FLEXURE GROUP GRO	UP			-
1 1 1	<u></u>			

12.23 m.m.

JET S.S., KENNELSFORT ROAD, BEAM 5 25-5-91.

BERNA	RD FINNEGAN LTD.	Consulting	Engineers.	021-822336
JOB: J	et S.S. Kennelsfort Ro	L	DATE: 25-5	-91 PAGE: 16
	Beam 6	<u>-</u>		
	Strength Design		20.87km	. 20.87km
	D.L + L.L.	<u></u>	(13:75	(i3·75)
	Pt 1= 20.87 km.		<u> </u>	<i>'</i>
	Pt 2= 20.87 lm.		2600 2200	, 1
		4400	4800	22∞
	Deflection design L.i. only Pt1 = Pt2 = 13.75 kn.		- · · · · · · · · · · · · · · · · · · ·	=
	L.L. only			
	Pt1 = Pt2 = 13.75 kn.			
		· · · · · · · · · · · · · · · · · · ·		
	Note: as for bea			
		<u> </u>	54 × 146 × 31	(Page 17)
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	Column Design.			
	Main Column		-	
	Case 1: D+S+h			
		80.4 kn.		
5.2				45)/2 = 28 kn m
	My =	1.09 x 7 x	5.18/2 =	19.8 kn.m.
	Case ?: D + Winc	. =		
Unblocker	i	_	27×9·93×7 =	5.8 kn.
	1	28 kn.m.		
	My =	19.8 Kn.m	· • • • • • • • • • • • • • • • • • • •	
	<u> </u>		(n	; 0\
	•	400 x 20	DOX10 (Pag	<u>e 18)</u>
			<u> </u>	
		· · · · · · · · · · · · · · · · · · ·	- 	
				
<u>,</u>				

BEAM 6

JET S.S., KENNELSFORT ROAD,

```
JET S.S., KENNELSFORT ROAD,
                                      25-5-9
MAIN COL.
COLUMN DESIGN.
                                       CASE 2
CASE 1
                  = . .
Max. Load.
                             80.40
                                       5.80 KN.
Moment x-x (a)
                             28.00
                                        28.00 KN.M.
                 =
Moment x-x (b)
                              0.00
                                       0.00 KN.M.
                  =
                             19.80 19.80 KN.M.
Moment y-y
                               4.65
                                        4.65 M.
Height
Eff. Length x-x
                                9.30
                                        9.30 M.
                  =
Eff. Length y-y
                                9.30
                                         9.30 M.
                  =- - -
                             0.00
                                        0.00 M.
Canopy Width.
                  =
                  TRY 400 X 200 X 10 R.H.S.
                                 --- 116.00 cm<sup>2</sup>
         Α
                                   1207.00 cm<sup>3</sup>
         Z x-x
                                  814.00 cm<sup>3</sup>
                  =
         Z y-y
                                   24140.00 cm<sup>4</sup>
         x-x
                  =---
                                 8138.00 cm<sup>4</sup>
                  =
         I y-y
                                  8.39 cm.
         ry
         D/t
Lateral Defl. x-x =
                               3.98
                                        3.98 m.m.
                            25.83
8.35
25.83
                                        25.83 m.m.
Allow Defl. x-x =
                                        8.35 m.m.
Lateral Defl. y-y =
                                        25.83 m.m.
Allow Defl, y-y =
                               0.00
                                        0.00 m.m.
Edge Defl.
Allow. Edge Defl. =
                               0.00
                                         0.00 m.m.
STRENGTH DESIGN.
Compression.
                        110.85 110.85
         Leff./ry =
                             66.41 66.41 N./m.m.<sup>2</sup>
6.93 0.50 N./m.m.<sup>2</sup>
         Pc = Ax.Str. =
Bending.
                             55.42
                                       55.42
         Leff./ry =
                                        0.00
         D/t =
                              0.00
                            165.00 165.00 N./m.m.^2
23.20 23.20 N./m.m.^2
         Pcb.
                  =
         Bend.Str.=
                                        0.15 < 1.0
                               0.24
COEFFICIENT =
```

25-5-91.

BASEPLAT	re design	RECTA	NGULAR	COLUMN			
DIMENSIONS.) فقة مدد م ب رخ <u>ت نتي ند. مد مبر بيم حد نيد مد</u>		LENGTH	WIDTH	THICK		
	COLUMN :	-	400	200			-
	BASEPL :		600	400	20		
	H.D. BOLTS	:	3	2	24		
	STIFFS	:	2	150	12		
LOADING.		CAS	SE 1	CA	SE 2		
		x-x	у-у	x-x	у-у		
	LOAD :	85.4	85.4	10.8	10.8	Kn.	
	MOMENT :	28.0	19.8	28.0	19.8	Kn.m	•
RESULTANT FORCES	/ STRESSES.						
			ACT	UAL		ALLOW	ABLE
Depth to Neutral	Axis.(D)	173.8	_110.6	173.8	110.6		m·m.
Compressive Force	e(C)	100.3	104.0	62.4	68.3		Kn.
Tensile Force	(T)	14.9	18.6	51.6	5/.5		Kn.
Stress in grout		2.9	3.1	1.8	2.1	6.5	N./mm2
BSPL bend. stres			133.8		87.8	206.0	N./mm2
Stiff. bending s		51.8		32.2		206.0	N./mm2
Actual H.D. Tensi		5.0	9.3				Kn.
Required H.D.Ten	sion		13.0			57.4	Kn.
BSPL bend. st. a		24.4	45.8	84.7		206.0	N./mm2
Stiff. bending s		8.3	10.3	28.7	31.9	206.0	N./mm2

JET S.S., KENNELSFORT ROAD, MAIN FOUND.

FOL	INDATION D	ESIGN				
 		CASE 1	CASE 2	CASE 3		
Max. Load	<u> </u>	85.40	10.80	0.00	KN.	
	- ≇	31.92	31.92	0.00	KN.M.	
MOMENT X-X	- =	22.57	22.57	0.00	KN.M.	
Moniento 2 1	-	_				
Base Length	=	2.20	2.20	2.20 2.20	M. M.	
Base Width	=	2.20	2.20		и. М.	
	=	0.60	0.60	0.60	11.	
_	_	4.84	4.84	4.84	M^2.	
Dase urea	=	1.77	1.77		M^3.	
	= =	1.77	1.77			
Ba se Z y-y	=	±• //	200			-
STRESSES UNDER BAS	E:				**** /M^^	
	=	17.64	2.23	0.00	KN./M^2.	
Soil	=	7.20	7.20	7.20	KN./M^2.	
	=	14.40		14.40		
Wind x-x	=	17.99		0.00	KN./M^2.	
Wind y-y	=	12.72	12.72	0.00	KN./M^2.	
MAX. STRESSES :	_	57.23	41.82	21.60	$KN./M^2$	< 100
Wind x-x	=	51.96	36.55	21.60		< 100
Wind y-y	=	21.20				
MIN. STRESSES:		21.26	5.84	21.60	$KN./M^2$	> 0
Wind x-x	=	26.53	11.11	21.60		> 0
Wind y-y	= -	20.33		,		
FACTOR OF SAFETY	:		01 00	0.00	KN.M.	
O.T.M. x-x	=		31.92		KN.M.	
R.M. x-x	=	115.00	115.00		ray . ra .	> 1.5
F.O.S. x-x	= -	3.60	3.60	0.00		/ 1
	_	22.57	22.57	0.00	KN.M.	
O.T.M. Y-Y	- -	115 00	115.00	115.00	KN.M.	
R.M. Y-Y	-	5 09	5.09	0.00		> 1.
F.O.S. y-y	=	3.03	9.77			
FOUNDATION REINFO	ORCEMENT					
Presure under fo	undation	· = =	58.00	$kn./m^2$.	(nett)	
Presure under 10	CLEASE OF TAKE	= -	92.80	$kn./m^2$.	(gross)	
•	Moment	=	56.14	kn.m.		
M	/bd^2fcu		0.006			
r.	/ Du Zicu Z		523			-
	Ast	=	268	m.m.^2 /	m.	
•••		= -	.13%	= 715	$m.m.^2 / m$	• _
Minimum pe	TORILLAYE	= = _±	1010	m.m.^2 /	mProvid	.ed•
ActualT16 @	200 0/0	<u> </u>		-		

BERNARD FINNEGAN LTD. Consulting Engineers. 021-822336
JOB: Jet S.S. Kennelsfort Road DATE: 25-5-91 PAGE: 21
Rear Column. Stub Column only required, use 200×200×6.3.
Reactions for design of stub column supports.
Case 1: D+S+Wind // to shop $(x-x)$ Load = $2 \times 26.36 = 52.72 \text{ kn}$. Fx = $1.09 \times 7.1/2 = 3.9 \text{ kn}$.
Fy = 0 Case 2 ! D+ wind x-x 7.12, 8.99. Load = $7.12^{-12} - 0.27 \times 7 \times 7.1 = 0.82 \text{ kn}$.
Unblocked $Fx = 3.9 \text{ Mn}$ Fy = 0 Case 3: $D + \text{Wind } Y - Y$ $Load = 7.12 \times 2 - 0.71 \times 7 \times 7.1 = -21 \text{ Mm}$
Fy = 0
•

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 hÉireann, Block 2, Irish Life Centre, Sraid na Mainistreach lacht, Lower Abbey Street, Baile Atha Cliath 1. Dublin 1. Telephone. (01)724755 Fax. (01)724896

Register Reference: 91A/0796

Date: 17th May 1991

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

Dear Sir/Madam,

DEVELOPMENT: Redevelopment of Jet Petrol Filling Station including

revised forecourt layout, replacement canopy and shop/

store building.

LOCATION : Kennelsfort Road, Palmerstown.

APPLICANT : Conoco Ireland Ltd.

APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to above, I acknowledge receipt of your application received on 17th May 1991.

Yours faithfully,
PRINCIPAL OFFICER

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

Dublin County Council

Comhairle Chontae Atha Cliath



Planning Application Form/ Bye - Law Application Form

PLEASE READ INSTRUCTION	INS AT BACK BEFORE COMPLETING I	FORM. ALL QUESTIONS MUST BE ANSV	VERED.
Application for Permission Approval should be sought only vertention of structures or continuation.	· ·	in appropriate box. y granted. Outline permission may not be so WELAW	APPI to t
Postal address of site or building	'Jet' Petrol Filling St	tation.	0.16
(If none, give description sufficient to identify)	Kennelsfort Road, Palme	erstown, Dublin 20.	1.29
Name of applicant (Principal not	Copoco Ireland It	7.9	
•	•	in. Tel No. 289664	4
5	O'Brien Handy Associates		
person or firm responsible	Paray Place Public 4	680899 Tel. No	, }
for preparation of drawings			1 * * * * * * * * * * * * * * * * * * *
Name and address to which	yan O'Brien Handy Associat	tes, 6 Percy Place, Dublin 4	
canc	py and shop/store building	rol station including a new g	
Method of drainageMair	s drainage 8. Source o	f Water Supply R1S1ng Main	
In the case of any building or bu	ildings to be retained on site, please state:	; ·	
(a) Present use of each floor	N/A	DUBLIN	
or use when last used	-	THE PARTY NOT	
	N/A	Shade miles	
Does the proposal involve demoli or change of use of any habitable	tion, partial demolition No house or part thereof?	O Conoco	*******************
(a) Area of Site	112/4/22/04///		Sq. r
		157.19	C
(b) Floor area of proposed develop	ment	1,57.19	Sq. 1
	d to be retained within site		Sq. ı
State applicant's legal interest or e (i.e. freehold, leasehold, etc.)	state in site Leaseho	old	.i.z.c
Are you now applying also for an Yes No Place / in appr	approval under the Building Bye Laws?	AL TAU	294
Please state the extent to which the	e Draft Building Regulations have been to See attached notice.	aken in account in reur proposal:	personal St.
110,000 (001,000000000000000000000000000			F
 List of documents enclosed with . application. 			**************
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	es of specification, drawing	, rios.
	3017/02, 03, 04, 06 & 07;	; 600/6, 11B & 37; 3220/112	
		157.19	
	elopment (See back)	*************************************	Sq.
No of dwellings proposed (if any)	N/A Class(es) of Develor	pment 8 & 4	**********
Fee Payable £ 1, 125, 24		<u>& BBL €200 + 157.19 x 5.25</u>	
Signature of Applicant (or his Age	nt) Hoel Doda	Date 17 Max 199	3.1
Application Type P B	BL, FOR OFF	EICE USE ONLY 145	
Register Reference	AOT96 REGEIVE	D	
Amount Received £		D 1.40.4	
Receipt No 17-8	17 MAY 1990	1.40.4	
_	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.

- Name and Address of applicant.
- Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.
- The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. 3. 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.
 - The name of the applicant,
 - NB. Applications must be received within 2 weeks from date of publication of the notice.
- 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.
- 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.
- 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 trialhole 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.

SUMMARY OF CLASSES OF DEVELOPMENT/ FEES

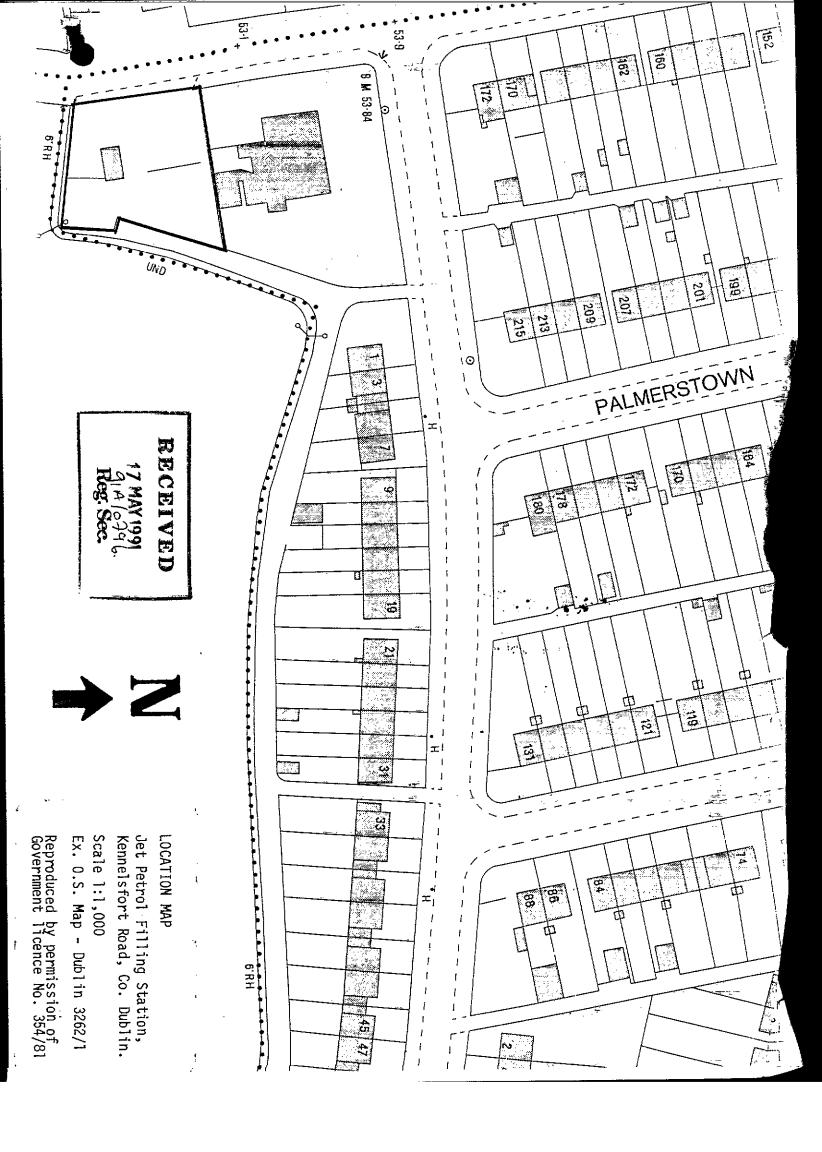
	DESCRIPTION	FEE		
CLASS NO. 1. 2. 3. 4. 5. 6.	Provision of dwelling - House/Flat. Domestic extensions/other improvements. Provision of agricultural buildings (See Regs.) Other buildings (i.e. office, commercial, etc.) Use of land (Mining, deposit or waste). Use of land (Camping, parking, storage). Provision of plant/machinery/tank or other	£32.00 each. £16.00 each. £40.00 minimum. £ 1.75 per sq.metre (Min. £40.00). £25.00 per 0.1 ha. (Min. £250.00). £25.00 per 0.1 ha. (Min. £40.00). £25.00 per 0.1 ha. (Min. £100.00).		
8. 9. 10. 11.	structure for storage purposes. Petrol filling station. Advertising structures. Electricity transmission lines. Any other development.	£100.00. £ 10.00 per sq. m. (Min, £40.00). £ 25.00 per 1,000m.(Min, £40.00). £ 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 CHATHE This receipt is not at ecknowledgement that the DUBLIN COUNTY COUNCIL 46/49 UPPER O'CONNELL STREET IS UN DIOSCIDES OPPLICATION PAID BY **DUBLIN 1.** 39640 CHEQUE ! M.O. 6.L. £345.08 LT. Received this Pounds Pence, being. 4 S CAREY Principal Officer Cashier



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.

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

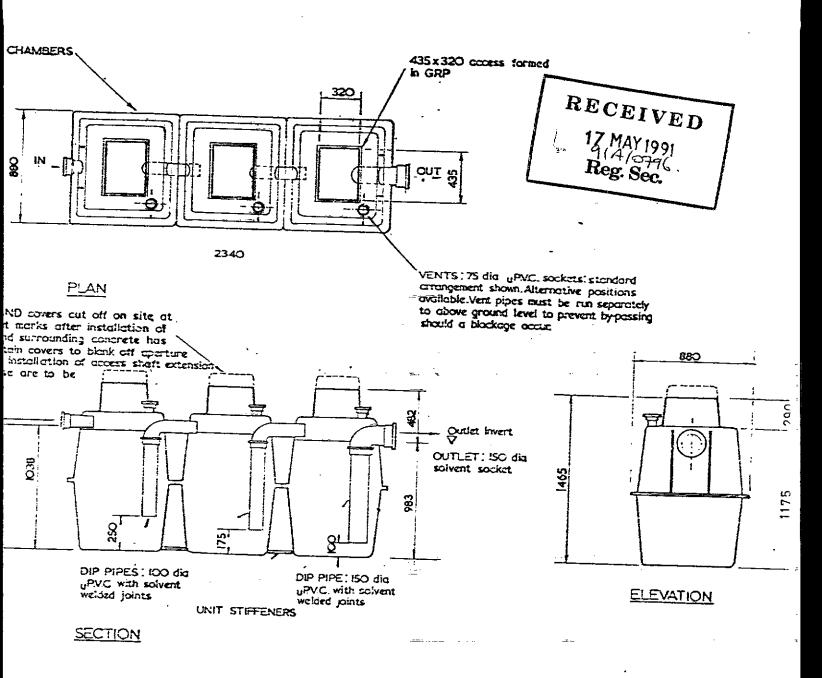
IMPORTANT

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

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INLET_100 dic.



Ryan O'Brien Handy Associates Architects & Designers

38 Percy Place, Dublin 4 (01) 680661 / 680899

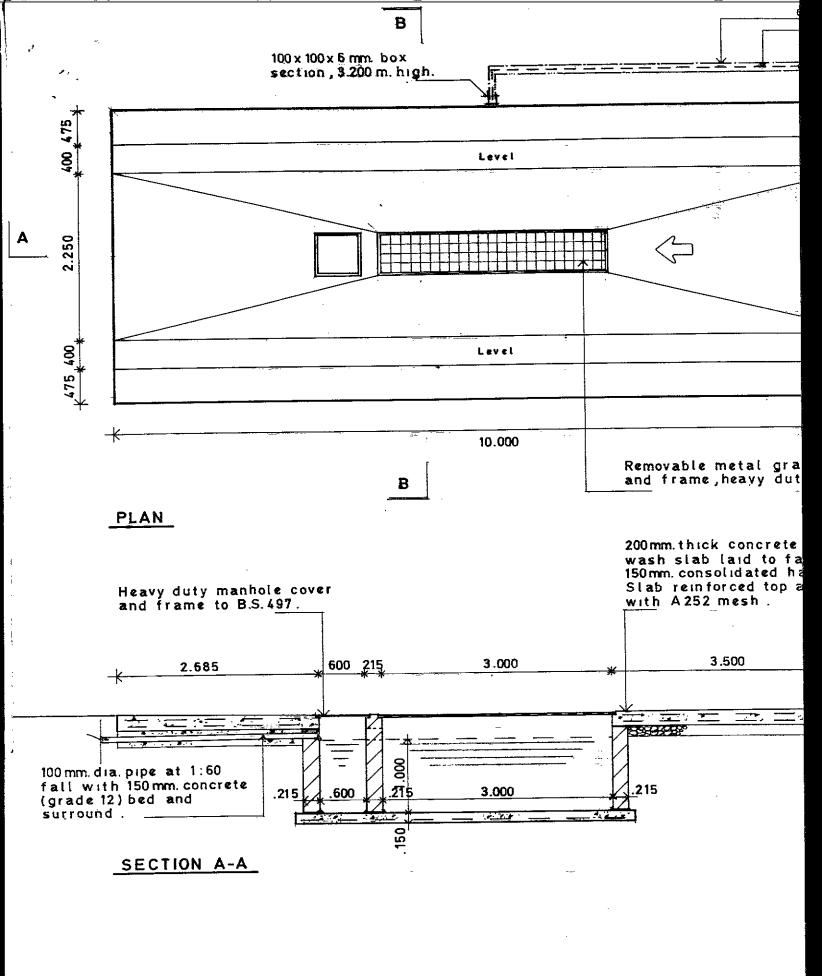
Drawing title

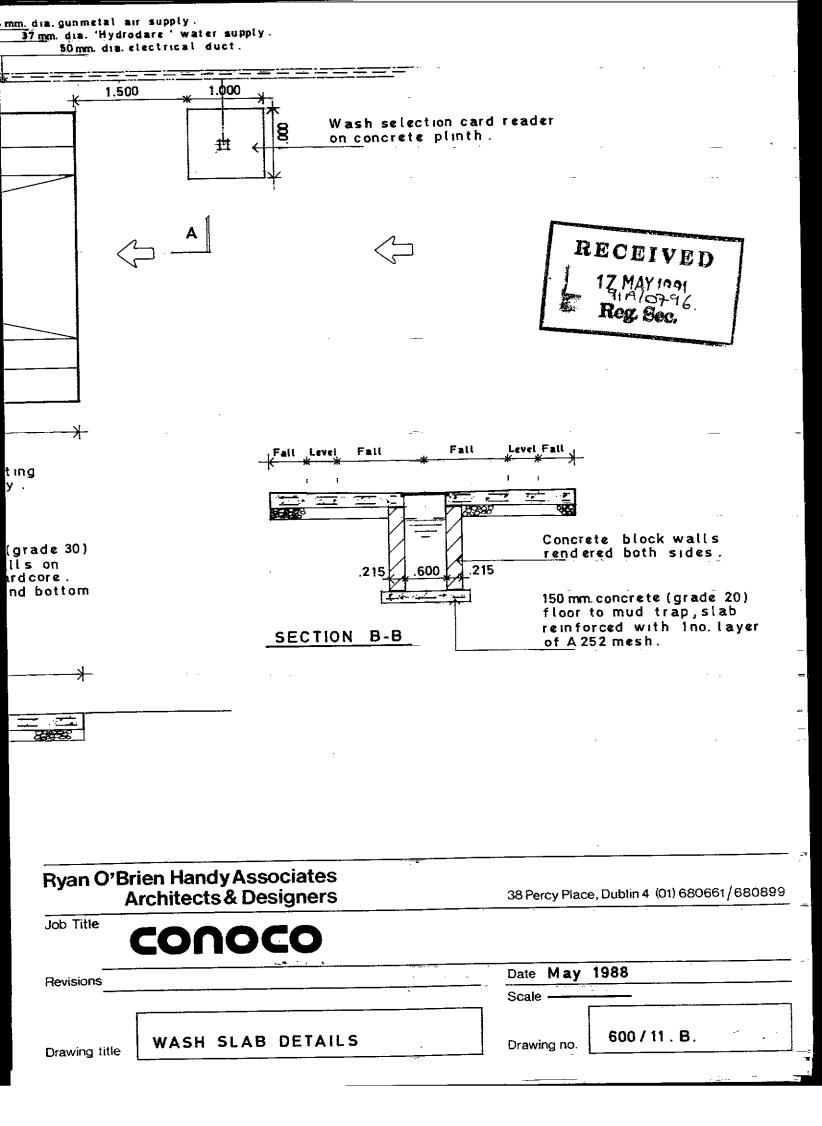
Drawing no

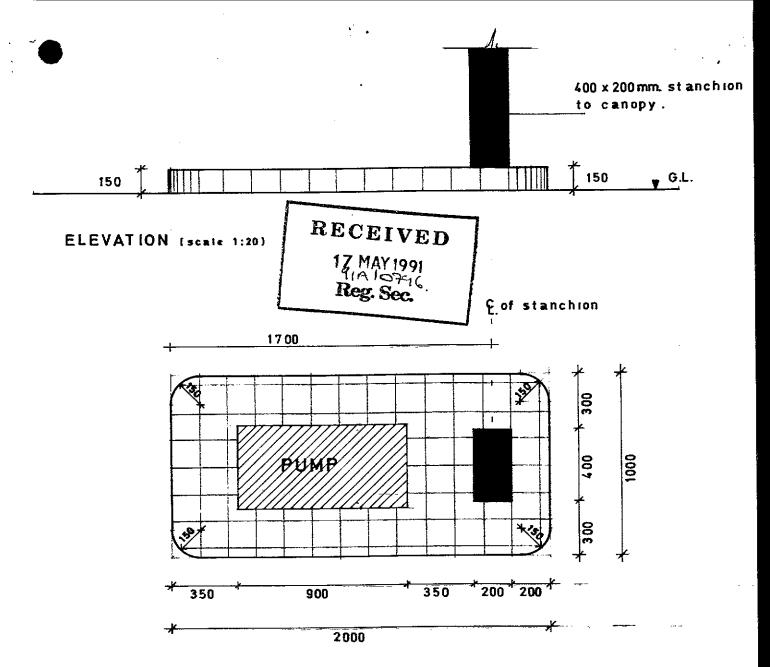
Petrol Interceptor.

Date May 1989 Scale
Drawing no

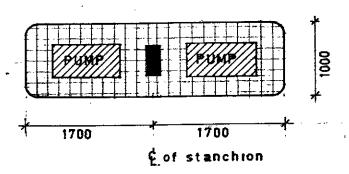
600/6.



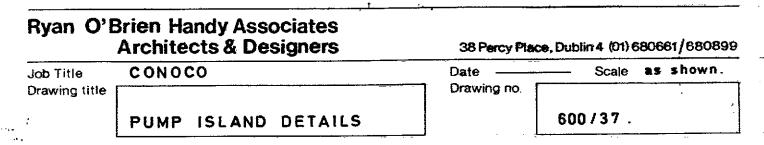


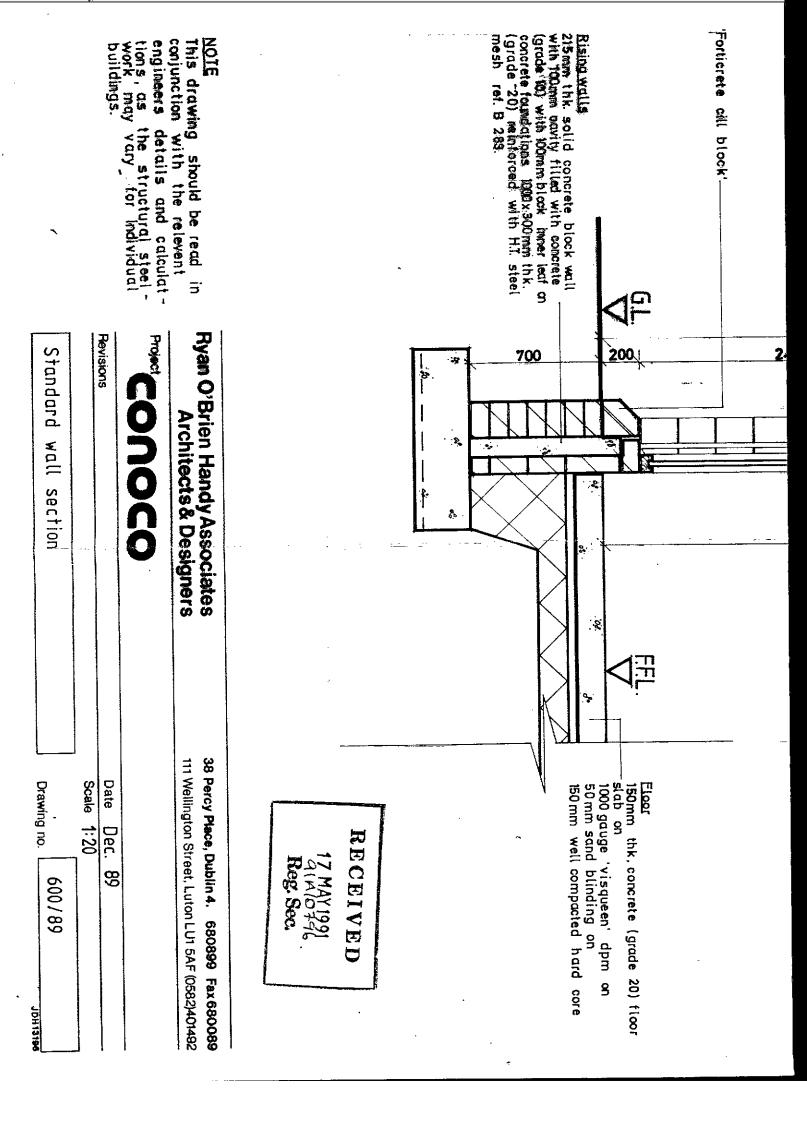


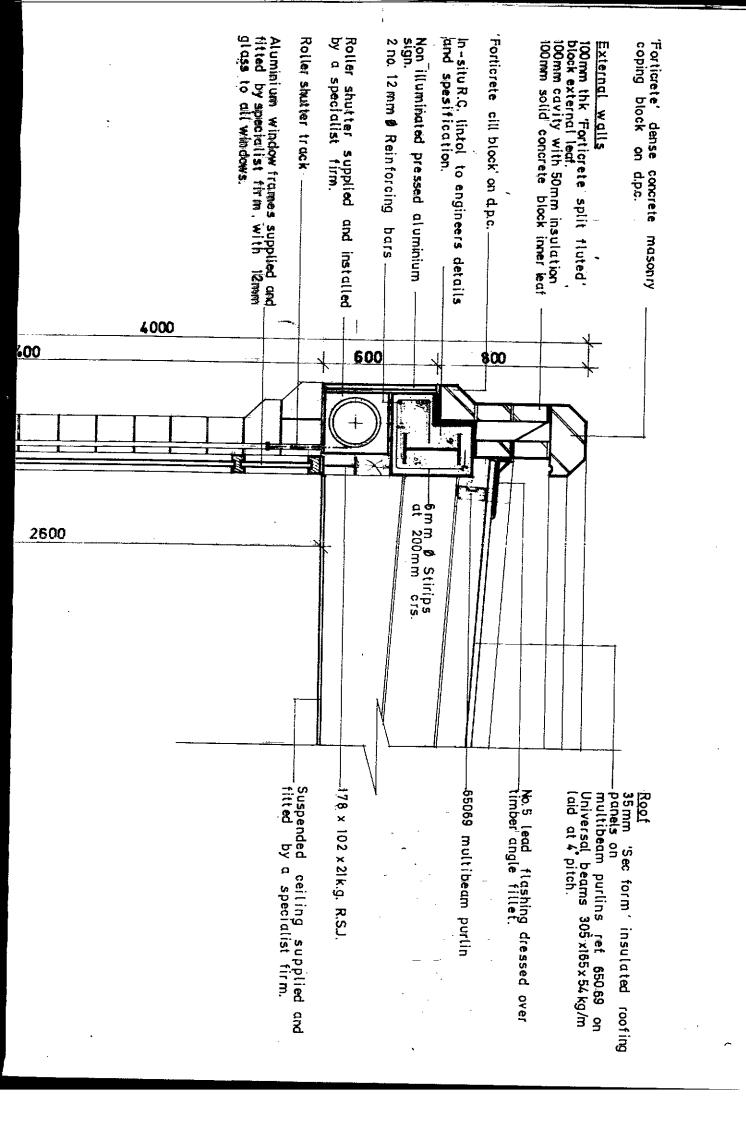
SINGLE PUMP ISLAND (scale 1:20)



DOUBLE PUMP ISLAND (scale 1:50)









OUTLINE SPECIFICATION

Ryan O'Brien Handy Associates

6 Percy Place Dublin 4

Telephone 680 899 Facsimile 680 089

for

THE REDEVELOPMENT

o f

RECEIVED

17 MAY 1991 PIN/0496 Reg. Sec.

'JET' PETROL FILLING STATION, KENNELSFORT ROAD, PALMERSTOWN, DUBLIN 20.

for

CONOCO IRELAND LTD.

under the supervision of

RYAN O'BRIEN HANDY ASSOCIATES

May 1991

III Wellington Street Luton LU1 5AF

Partners
Denis Handy
DIP ARCH MRIAI MSDI
John McCarthy
DIP ARCH MRIAI MSDI
Associates
Denis Whelan
RIAI (IECH)
Kenneth McEwan
BSC [HCNS]
Noel Doyle

- 1 Prork 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.
- 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.
- 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.
- The Contractor is to include for making good all surfaces where disturbed to match existing finishes after the completion of all works.
- 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.
- 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 carefully taking down the existing building and planting areas where necessary.
- 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.
- There are 5 no. existing underground petrol storage tanks on the site as indicated on the drawings. The tanks are to remain in position and in operation throughout the duration of the works and the Contractor should include for carrying out any works connected with these tanks in stages so that the tankers will be able to deliver petrol to the tanks.
- 11 Contractor is to include for rebuilding 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.
- 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 4 no. connections (25mm hydrodare) from main supply 1 no. to the new services island, 2 no. to the car wash positions and 1 no. to the new building as indicated on the drawings. Include for 25mm full way stop valves on all connections. Pipes to be 450mm minimum below ground level.
- 14 Contractor is to include for installing 1 no. concrete (Grade 30) car wash slab laid to falls on 150mm consolidated hardcore in accordance with detail drawing no: 600/11B in the positions shown on drawing no: 3017/02 & 04.
- The Specialist Firms will erect the car wash machinery and connect the water supplies, electrical wiring and air lines.
- 16 Contractor is to include for 2 no. concrete (grade 20) bases (900 x 900 x 900mm) for 2 no. floodlight poles which are to be supplied and erected by the nominated Electrician. The exact positions to be decided on site.

- 17 tractor to include for new planting areas around the new services island and boundary walls as indicated on drawing no. 3017/02.
- 18 Contractor to include for cleaning out and rotavating all planting areas and for the supply and installation of 150mm additional top soil to all areas. All areas to be rolled and seeded with top quality grass seed.
- 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.
- 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.
- 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).
- 22 Contractor to supply and install PVC gulley traps where shown on drawings.
- The existing 3 chamber petrol interceptor trap is to be disconnected. The Contractor is to arrange to have the interceptor emptied and all contents taken away by a Specialist Waste Disposal Firm. Contractor is then to demolish as necessary the chamber walls of the interceptor down to a level so as not to interfere with the new works. The 3 no. chambers of the interceptor are to be filled with lean-mix concrete.
- The Contractor is to supply and install two prefabricated Conder petrol interceptor traps 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. PVC 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.
- The Contractor is to provide and install new 'ACO' drainage channels type C 250 and new 'ACO' silt gulleys where indicated on the drawings.
- 26 Contractor to include for disconnecting all existing foul drains on site.
- New foul drains indicated are to be installed strictly in accordance with the drawings and as described previously for Surface Water Drains.
- 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.
- 29 All A.J.'s to be installed as previously described in Clause No. 12.
- 30 Provide and fit PVC gulley traps where shown.
- 31 Contractor to include for building a new (last) manhole chamber on the existing where indicated on the drawing. Manhole chamber to be constructed as previously specified. Include for dispersion interceptor trap and fresh air inlet on this manhole chamber.
- 32 Contractor to include for 150mm minimum of well consolidated hardcore under all new ground surfaces.

- forecourt area under the canopy is to be surfaced with concrete paving setts laid in strict accordance with the manufacturer's instructions and specification.
- The remainder of the forecourt, as indicated, shall be tarmacadam (as specified on drawing no. 3017/02) or 250mm deep reinforced concrete (grade 20) laid to falls as detailed on drawing no. 3017/04.
- 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 consturcted with R.H.S., steel stanchions, steel intermediate members with aluminium top sheeting, soffite sheeting and steel fascias.
- 36 Contractor to include for a 150mm thick concrete (grade 30) path on 150mm well consolidated hardcore 1.5m wide to the front and right side of the building and 900mm wide at the rear of the building.
- The new shop/store building is to be built strictly in accordance with detail drawings nos. 3017/06 & 07, and Structural Engineer's drawings..
- Foundations to be constructed as per details on drawing no. 3017/07, concrete grade 20. Footings to be reinforced top and bottom with A252 mesh.
- New external walls 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 of the cavity.
- 40 All internal walls to be 225mm or 100mm solid concrete block as indicated.
- 41 All walls to be plastered internally with 12mm hardwall plaster and skim.
- New roof to be 'Secform' or other approved plastic coated 35mm insulated profiled steel panels, laid strictly in accordance with the manufacturer's instructions to falls, on 65069 'Z' multibeam purlins on 254 x 146 x 25kg U.B. as shown on drawing no. 3017/07. Treated wallplates to be provided as required. Approved upstand flashings to be fitted to parapet walls on to the roof.
- 43 All flashings generally to be No. 5 lead flashing.
- 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 wall consolidated hardcore.
- 45 Floor in Fuel Store to have a screed finish.
- 48 Include for 1000 gauge visqueen DPC's where shown on drawings.
- 47 Lintols generally to be prestressed concrete units, used strictly in accordance with manufacturer's instructions or as per details shown on the drawings.
- Concrete beams at the front and sides of the building to be cast insitu (grade 30) as per detail on drawing no. 3017/07 and in accordance with engineers details and specification.
- Front and side faces of building to consist of aluminium framed shopfronts as shown. Entire shop fronts, 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 plate glass.
- External doors and frames to Store and External Toilet 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. Doors to Store to have a PH73 panic bolt set and door to toilet to have a MKC 241 upright mortice cylinder sash lock.
- Door and frame from shop to lobby to be standard 1 hour fire check door.

- 52 Abother internal doors and frames to be standard flush plywood finished doors.
- Doors to Fuel store to be steel Martin Roberts Guardian Standard Doorsets as previously specified overall size 2000 x 2100 approx. exact type to be decided on site.
- Include for providing and fitting 100 x 200mm selected wall tiles to a height of 1.65m around all walls in kitchen, tojlets and ventilated lobby. Wall tiles to be carried down to floor level.
- Provide and fit 100 x 23mm skirtingboards around all walls in building except areas which have wall tiles, where the wail tiles are to be carried down to the floor.
- Provide and fit 225 x 225mm air vents where shown.
- 57 The Nominated Electrician will supply and fit 1 no. mechanical air extract fan in the kitchen
- 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.
- 59 Provide and fix PVC soil and vent pipe where shown.
- Rainwater gutters to be an approved 125mm aluminium gutter. R.W.P.'s to be 100mm diameter PVC.
- 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.
- 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 sheeting. Include for ball cock mechanism and overflow pipe.
- 63 Contractor to include for the supply and fitting of 2 no. Vitreous china low level w.c. suites with overflow pipes and 2 no. 300 x 500mm (approx.) Vitreous china wash hand basins each including 2 no. taps in the toilets.
- 64 Include for the supply and installation of 1 no. standard stainless steel sink and base unit with presses under.
- 65 Include for taking 1 no. 12mm spur for drinking water off rising main to the sink unit in the kitchen.
- 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
- Include for bringing 12mm supply pipes from the water storage tank to each of the w.c.'s, the cold water taps on the w.h.b.'s and 3 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.
- 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.
- Demolish existing boundary wall at the east side of site and replace with new hollow concrete block wall, 1.500m. high, capped with precast concrete copings on polythene damp proof course. Wall to be rendered both sides with three coats of sand/cement9laster and finished to match existing boundary walls.
- 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