FILE DISCUSSED AT COUNCIL/COMMITTEE MEETING

FILE REF: 91A 1255

MEETING	COMMENTS	NOTED IN DEV. CONTROL	NOTED BY
BELGARD H+P 31/10/91	Noted & CCW Rudge		

DUBLIN COUNTY COUNCIL

PLANNING DEPARTMENT

Register Reference : 91A/1255 Date Received : 29th July 1991

Applicant : Sean and Dora Kelly Appl.Type : PERMISSION/BUILD

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground

LOCATION : Ballynakelly, Newcastle

O.S.REFS. 21-5

AREA REFERENCE W T 0 9 3 5

HISTORY 91A/1012 WA685

FEES CERTIFICATE NO.

FEE CLASS

MEASUREMENT FOR FEES

SIGNED ..... DATE .....

SENIOR EXECUTIVE DRAUGHTSMAN

FEE PAID	FEE ASSESSED	BALANCE DUE

CERTIFIED _____ GRADE _____ DATE _____

BYE LAW APPLICATION FEES

REF. NO.: 91A/1255 CERTIFICATE NO.: 159123

PROPOSAL: ~~S~~ Development of Service Station Forecourt

LOCATION: Newcastle Service Station, Ballynakelly Newcastle

APPLICANT: S & D. Kelly

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

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

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

Columns 2,3,4,5,6 & 7 Certified: Signed: _____ Grade: SO Date: 1/8/91

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

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

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

Register Reference : 91A/1255 Date : 6th August 1991

Dear Sir/Madam,

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Date Recd : 29th July 1991

Your application in relation to the above was submitted with a fee of 100.00 .

On examination of the plans submitted it would appear that the appropriate amount should be 240.00 .

I should be obliged if you would submit the balance of 140.00 as soon as possible as a decision cannot be made on this application until the correct fee is received.

Yours faithfully,

.....

for PRINCIPAL OFFICER

Michael O'Kane,
Texaco Ireland Ltd,
Texaco House,
Ballsbridge,
Dublin 4.

PLANNING APPLICATION FEES

Reg. Ref. 91A/1255 Cert. No. 26202

PROPOSAL. Development of Service Station Forecourt

LOCATION. Newcastle Service Station, Ballynakelly, Newcastle

APPLICANT. S.P.D. Kelly

CLASS	DWELLINGS/AREA LENGTH/STRUCT.	RATE	AMT. OF FEE REC.	AMOUNT LODGED	BALANCE DUE	BALANCE PAID
1	Dwellings	@£32				
2	Domestic,	@£16				
3	Agriculture	@50p per m2 in excess of 300m2. Min. £40				
4	Metres	@£1.75 per m2 or £40				
5	x .1 hect.	@£25 per .1 hect. or £250				
6	x .1 hect.	@£25 per .1 hect. or £40				
7	x .1 hect.	@£25 per .1 hect. or £100	~~£100~~	Waived ~~NIL~~	~~£100~~	
8		@£100	£100	£100	NIL	
9	x metres	@£10 per m2 or £40				
10	x 1,000m	@£25 per £1000m or £40			£40 20/8/91 N47590	
11	x .1 hect.	@£5 per .1 hect. or £40	£40	NIL	~~£40~~	

Column 1 Certified:Signed:.....Grade.....Date.....

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

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

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

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

ASSESSMENT OF FINANCIAL CONTRIBUTION

EG. REF.: Ell/ K 614

ONT. REG.:

ERVICES INVOLVED: WATER/FOUL SEWER/SURFACE WATER

REA OF SITE:

LOOR AREA OF PRESENT PROPOSAL: No Extra Poor

EASURED BY: BARR.

HECKED BY: [illegible] 19/12/91

ETHOD OF ASSESSMENT:

OTAL ASSESSMENT

ANAGER'S ORDERED NO: P/ /
DATED

NTERED IN CONTRIBUTIONS REGISTER:

(i) No additional floor area. Standard nil

EVELOPMENT CONTROL ASSISTANT GRADE

(ii) Road's request £1500. No add floor area not considered reasonable to charge Roads

[illegible] 19/12/91

Mary Galvin

Register Reference : 91A/1255 **Date : 13th November 1991**

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : Additional Information

Planning Officer : M.GALVIN

Date Recd. : 1st November 1991

DUBLIN COUNTY COUNCIL
19 DEC 1991
ENVIRONMENTAL HEALTH
OFFICERS

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

Yours faithfully,

.....

for PRINCIPAL OFFICER

I have no objections to this proposal.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 06.01.92
Time 12.30

Ita Devine
for John O' Reilly
SUPER.ENVIRON. HEALTH OFFICER,
33 GARDINER PLACE,
DUBLIN 1.

8/1/92

Order No. P/5905/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Proposal to rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision of a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage at Ballynakelly, Newcastle, for Sean and Dora Kelly.

Michael O'Kane,
Texaco Ireland Ltd.,
Texaco House,
Ballsbridge,
Dublin 4.

Reg. Ref. 91A/1255
Appl. Rec'd: 29/7/91
Floor Area:
Site Area:
Zoning:
Add. Info. rec. 1/11/91

Report of the Dublin Planning Officer, dated 19 December 1991

This is an application for **PERMISSION** for the redevelopment of the existing petrol station at Ballynakelly, Newcastle.

Reg. Ref. YA/1012 and WA/685 refer to earlier applications. The site is located in an area zoned 'B' - "To protect and provide for the development of agriculture" in the Development Plan.

The Draft Development Plan proposes an 'A' zone, - "to protect and improve residential amenity."

Additional Information was requested from the applicant with regard to the following:-

1. Insufficient details of the definition of the proposed front boundary of the site have been provided together with treatment of the area between site boundary and the public carriageway. The applicant is requested to submit these details.

2. Insufficient details have been submitted with regard to boundary treatment of the property with adjoining properties. The applicant is requested to submit these details in order to show that the proposed development will not have an adverse affect on adjoining properties.

3. Insufficient landscaping details have been submitted. The applicant is requested to submit a full landscaping plan together with details of planting times and a maintenance programme.

Contd/....

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Proposal to rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision of a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage at Ballynakelly, Newcastle, for Sean and Dora Kelly.

4. In view of the location of site within the environs of the village of Newcastle the Planning Authority considers that the amount of advertising may be excessive with regard to size of signs and numbers of signs. In this regard insufficient information has been submitted of the details of all the signs. The applicant is requested to clarify if he is in a position to scale down the size and reduce the number of proposed signs.

5. Clarification is required to whether or not facilities are being provided for vehicles using diesel and if so details of circulation for trucks and other large vehicles are required.

6. Details of protection of existing house whose gable is to be exposed are required together with clarification of the agreement or otherwise of the adjoining owner to the proposed development.

7. Insufficient information of foul sewer details have been submitted and these are required before this application can be fully considered. Existing and proposed foul sewer details have not been submitted. The capacity of the Newcastle treatment works does not allow for any further discharge from the Newcastle area.

8. In relation to surface water disposal the discharge of car wash effluent to a surface water system is unacceptable. Applicant has not indicated how it is proposed to deal with the problem of the trapping of waste petroleum products using the cobblelook system. A connection to a public surface water drain is not indicated.

A reply to the request for Additional Information was received on 1st November, 1991, as follows:

With regard to Item No. 1, details of front boundary treatment have been submitted.

With regard to Item No. 2, boundary treatment with adjoining properties has been detailed.

With regard to Item No. 3, further landscaping details have been submitted.

With regard to Item No. 4, details of signs have been clearly defined.

Order No. P/5905/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Proposal to rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision of a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage at Ballynakelly, Newcastle, for Sean and Dora Kelly.

With regard to Item No. 5, circulation for trucks has been defined.

With regard to Item No. 6, details of gable treatment have been submitted, together with a statement from the owner of the station that she has discussed the development with adjoining neighbour who is in agreement with the proposed development.

With regard to Item No. 7, sewerage details have been submitted.

With regard to Item No. 8, the car wash element is to be omitted.

Sanitary Services repot noted.

Roads Engineers' report noted.

The proposed development is consistent with the 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 (7) conditions:-

Contd/.....

Order No. P/5905/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Proposal to rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision of a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage at Ballynakelly, Newcastle, for Sean and Dora Kelly.

CONDITIONS	REASONS FOR CONDITIONS
1. The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by Additional Information received 1st November, 1991, save as may be required by the other conditions attached hereto.	1. To ensure that the development shall be in accordance with the permission and that effective control be maintained.
2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development.	2. In order to comply with the Sanitary Services Acts, 1878-1964.
3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.	3. In the interest of health.
4. That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development.	4. In the interest of safety and the avoidance of fire hazard.
5. That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the Sanitary Services Department. In this regard, in relation to foul sewerage, the proposed car wash ~~must~~ be eliminated from the proposed development. In relation to surface water the applicant must satisfy the Sanitary Services Engineer regarding details of connection to surface water sewer or suitable watercourse. Roof drainage to by-pass the petrol interceptor system.	5. In order to comply with the requirements of the Sanitary Services Department.

Order No. P/5905/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Proposal to rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision of a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage at Ballynakelly, Newcastle, for Sean and Dora Kelly.

CONDITIONS	REASONS FOR CONDITIONS
6. That a 2 metre wide concrete footpath be constructed across the front of the property. Details of kerbs, entry radii, dishing of paths and kerbs at entrance to be agreed on site with the Area Roads Engineer.	6. In the interest of the proper planning and development of the area.
7. That the boundary treatment between applicants property and adjoining property be ~~the subject of agreement with adjoining owners or failing agreement to be as determined by the Planning Authority.~~ details of submitted for the written agreement of the Planning Authority prior to commencement of development	7. In the interest of the proper planning and development of the area.

Note Applicant is advised that where encroachment or possibling of adjoining property is intended, the written consent of adjoining property owners should be submitted as part of compliance submission on item condition 7.

(NRP/CM)

For Dublin Planning Officer

Endorsed:- _____
for Principal 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 (9) conditions set out above is hereby made.

Dated: 20th December, 1991.

_____
Assistant County Manager.

to whom the appropriate powers have been delegated by Order of the Dublin City and County Manager, dated 10th December 1991.

SS + CMo.

Register Reference : 91A/1255 Date : 13th November 1991

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : Additional Information

Planning Officer : M.GALVIN

Date Recd. : 1st November 1991

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date .....
Time .....

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

Yours faithfully,

DUBLIN Co. COUNCIL
19 NOV 1991
SAN SERVICES

DUBLIN CO. COUNCIL
SANITARY SERVICES
for PRINCIPAL OFFICER
17 DEC 1991
Returned GG

Date received in Sanitary Services .....

FOUL SEWER Available, subject to the following :—

① That there is an existing foul sewer connection serving the site. Because of the existing deficiency in the present foul sewer system a new connection resulting to an increase in load cannot be favourably considered.

② The car wash is omitted from the proposal.

SURFACE WATER Available, subject to the following :—

① Before commencement of work that the applicant indicate the surface water outfall as far as a public sewer or watercourse. There is no sewer fronting the site - however a Roads drain appears to exist there.

② Roof drainage to by-pass the petrol interceptor system.

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

J. Ria
9/12/91

Filed

Register Reference : 91A/1255 Date : 13th November 1991

....

ENDORSED________________________ DATE______________

WATER SUPPLY...See previous report L. J. [illegible]
20/11/91
[illegible] 21/11/91

....

ENDORSED [illegible] DATE 11/12/91

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date ....
Time ....

DUBLIN COUNTY COUNCIL

REG. REF: 91A/1255.

DEVELOPMENT: Rehabilitation of service station.

LOCATION: Ballynakelly.

APPLICANT: Sean and Dora Kelly.

DATE LODGED: 1.11.91. A.I.

In general the details submitted are satisfactory, however, the footpath proposed appears to be only 1.5 metre wide. Applicant should clarify if he is able to construct a 2 metre footpath on site frontage and set back the new boundary, accordingly.

TR/BMcC
15.11.91.

SIGNED: Teresa Lopez

DATE: 15/11/91

ENDORSED: 4.B-b

DATE: 15/11/91

Mary Galvin.

EASTERN HEALTH BOARD

P.C. _____ Reg. Ref: 914/1255.

Proposed: Service station rehabilitation etc.

At: Ballynahelly, Newcastle.

For: S & D Kelly.

Plans lodged: _____

Architect: _____

Observations and recommendations of Env. Health Officers and/or Supervising Env. Health Officer.

I spoke to both Mr. G. Kidney and Mr. W. Maher about this proposal. It would appear it was inadvertently returned to this office. There is no further information and therefore my report of 12/9/91 stands.

Jackie Kelly
EHO 2/10/91

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 8:10:91
Time 3.15

for Dorine
John O'Reilly SEHO
3/10/91

Register Reference : 91A/1255 Date : 2nd August 1991

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 29th July 1991

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

Yours faithfully,

Paul Dolan

for PRINCIPAL OFFICER

Further information required as follows:

1) Drainage arrangements for foul ~~and surface~~ water systems to be indicated on plan.

2) Ventilation of shop, sanitary accommodation and adjoining lobby to be indicated.

3) Sanitary accommodation not indicated on plan.

Compliance with Food Hygiene Regs 1950-89.

" " Health Safety & Welfare at Work Act 1989.

Jackie Kelly EHO 12/9/91

SUPER.ENVIRON. HEALTH OFFICER,
33 GARDINER PLACE,
DUBLIN 1.

Ita Devine
for John O'Reilly SEHO
13/9/91

Mary Galvin.

DUBLIN COUNTY COUNCIL

REG. REF: 91A/1255.

DEVELOPMENT: Rehabilitate service station site.

LOCATION: Ballynakelly, Newcastle.

APPLICANT: Sean and Dora Kelly.

DATE LODGED: 29.7.91.

Roads are concerned about the high speed of traffic on this road, which leads to the Naas Dual Carriageway. The site is located on the outskirts of Newcastle village within the 30m.p.h. speed limit and has a long established use.

If permission is granted:-

1. Applicant to construct a new 2 metre concrete footpath on site frontage at edge of carriageway at his own expense. Boundary to be set back accordingly. Detailing of kerbs, entry radii, dishing of paths and kerbs at entrances to be to the satisfaction of the Local Area Engineer (Roads Maintenance).

2. Applicant to make a contribution of £1,500 towards Road Improvement and Traffic Management which will facilitate the development.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 18.09.91
Time 9.30

TR/BMcC
13.9.91.

SIGNED: Teresa Fagan **ENDORSED:** [signature]

DATE: 13/9/91 **DATE:** 13/9/91

P/4400/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/1255 — Date Received : 29th July 1991

Correspondence Name and Address : Michael O'Kane,
Texaco Ireland Ltd,
Texaco House,
Ballsbridge,
Dublin 4.

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground

Location : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : Permission

Zoning :

Floor Area : 115 Sq.metres

(NP/BB)

Report of Dublin Planning Officer dated 13th September, 1991.

This is an application for PERMISSION for the redevelopment of the existing petrol station at Ballynakelly, Newcastle.

Reg. Ref. YA 1012 and WA 685 refer to earlier application. The site is located in an area zoned "B" "to protect and provide for the development of agriculture in the Development Plan".

The Draft Development Plan proposes on "A" zone, "to protect and improve residential amenity".

I recommend that the following Additional Information be requested from the applicant with regard to the following:-

01 Insufficient details of the definition of the proposed front boundary of the site have been provided together with treatment of the area between site boundary and the public carriageway. The applicant is requested to submit these details.

02 Insufficient details have been submitted with regard to boundary treatment of the property with adjoining properties. The applicant is requested to submit these details in order to show that the proposed development will not have an adverse affect on adjoining properties.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

03 Insufficient landscaping details have been submitted. The applicant is requested to submit a full landscaping plan together with details of planting times and a maintenance programme.

04 In view of the location of site within the environs of the village of Newcastle the Planning Authority considers that the amount of advertising ~~is~~ maybe excessive with regard to size of signs and number of signs. In this regard insufficient information has been submitted of the details of all the signs. The applicant is requested to clarify if he is in a position to scale down the size and reduce the number of proposed signs.

05 Clarification is required to whether or not facilities are being provided for vehicles using diesel and if so details of circulation for trucks and other large vehicles are required.

06 Details of protection of existing house ~~where~~ whose gable is to be exposed ~~and~~ and required together with clarification of the agreement or otherwise of the adjoining owner to the proposed development.

07 Insufficient information of foul sewer details have been submitted and these are required before this application can be fully considered. Existing and proposed foul sewer details have not been submitted. The capacity of the Newcastle treatment works does not allow for any further discharge from the Newcastle area.

08 In relation to surface water disposal the discharge of car wash effluent to a surface water system is unacceptable. Applicant has not indicated how it is proposed to deal with the problem of the trapping of waste petroleum products using the cobblelook system. A connection to a public surface water drain is not indicated.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

.....
for Dublin Planning Officer

Endorsed:-.....
for Principal Officer

Order: I direct that ADDITIONAL INFORMATION be requested from the applicant for Permission as set out in the above report and that notice thereof be served on the applicant.

Dated : 19 September 1991. .....
ASSISTANT CITY & COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 4 September, 1991.

fb John Bird. Senior Planner HRP

PLANNING DEPARTMENT,
DUBLIN COUNTY COUNCIL,
IRISH LIFE CENTRE,
LOWER ABBEY STREET.

(1) Archaeology

6th September, 1991.

(2) Scale/form/colour in historic village

Re: 91A/1255. Date Received 29/7/1991.
Newcastle Service Station Ballynakelly.

The Proposal:

Permission is sought to rehabilitate the service station at Ballynakelly to include the demolition of a derelict unserviced dwelling, the erection of a new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage.

Planning History:

WA. 685: Permission granted for canopy over existing petrol pumps at Ballynakelly, Newcastle dated 11th June, 1981.

YA/1012:

Permission granted for extension to existing motor vehicle workshop at Newcastle service station dated 14th July 1983 (not constructed). Court of Trinity.

Zoning:

The site carried an "A" zoning in the 1991 Draft County Development Plan.

Under the 1983 Plan Newcastle is covered by the zoning objectives 'B' or 'G' as appropriate. It is within the area of archaeological Potential.

In relation to the design of the site for petrol stations the following statements are extracted from the 1991 Draft County Development Plan Appendix A:

- "A high quality of overall design will be required for all none petrol stations and refurbished existing stations to ensure an attractive development which integrates with and compliments or enhances its surroundings." (p. 189).

- "In addition where the petrol station is likely to have a significant impact either on the built environment as in town and village centres"....." the use of standard "corporate" designs and signage for petrol stations will not usually be acceptable". (p. 189).

- "The forecourt canopy should be integrated into the overall design of the petrol station. It should be designed and sited so that it does not dominate the surrounding landscape and buildings (p. 189).

Present Situation:

The site is used as a petrol station at present with a canopy of 0.55m in depth and a clearance height of 3.5m.

There is a single pump island with two dispensers. The front boundary to the site is not demarcated from the public carriageway.

Comments:

From a forward viewpoint the imposition of such a large canopy both in terms of its ground coverage (i.e. length by breadth) and in terms of its depth (1.1m) would be objectionable. A structure such as this located as proposed on the outskirts of a small village in a semi-rural setting would have a significant visual impact.

I would recommend that no increase in canopy depth over and above what exists at present be allowed. The proposal ~~as it stands~~ is not integrated sufficiently into the overall design of the petrol station and would be unduly dominant on the surrounding landscape and buildings.

It is noted that no front elevations of the existing premises or proposed alterations have been submitted thereby mitigating a full assessment of the proposed demolition of the existing dwelling used as a store.

The existing inhabited house which will remain if permission is granted should be adequately screened from the development. The close proximity of the proposed car ~~park~~ is also noted and it is recommended that this should be relocated on site.

Should permission be granted a condition requiring the exposed gable of the inhabited dwelling to be properly waterproofed would be desirable. Also a landscaping plan should be submitted with native tree species to help blend the development in to the landscape. The front boundary of the site should be demarcated as per the standards laid down in the County Development Plan 1983. No internally illuminated signs or lettering should be permitted on the canopy or on free standing sign signs.

- A condition re the archeological potential of the area should be inserted re the excavation for the petrol tanks.

It is noted that there is an existing large free standing sign on the site close to the public road. It is not clear from the application if this sign is to be retained or replaced. This should be clarified.

Denis Malone

Denis Malone,
Executive Planner.

S. McKeown.

DM/AD

SS & Cmg

Mary Galvin.

Register Reference : 91A/1255 Date : 2nd August 1991

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 29th July 1991

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

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 10.09.91
Time 9:30

Yours faithfully,

for PRINCIPAL OFFICER

DUBLIN Co. COUNCIL
14 AUG 1991
SAN SERVICES

- 5 SEP 19

Date received in Sanitary Services .....

FOUL SEWER

Insufficient information.

Applicant has not indicated the existing or proposed drainage arrangements.

Note :- The capacity of the receiving water at Newcastle treatment works does not allow for any further discharge from the Newcastle area.

SURFACE WATER

Refusal recommended.

1. It is not acceptable to discharge car wash effluent to a surface water system.
2. Applicant has not indicated how it is proposed to deal with the problem of the trapping of waste petroleum products using the 'cobblelock' system.
3. Applicant has not indicated a connection to a public sewer. The system to which it is proposed to discharge must be clearly identified.

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

T O'Sullivan 29/8/91.

13/9

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 16.09.91
Time 9 30

Register Reference : 91A/1255 Date : 2nd August 1991

ENDORSED ______________ DATE ______________

WATER SUPPLY Available for [illegible] 24 hour storage to be provided. Applicants to consult & agree daily water consumption & storage with S.S. dept. also to discuss the possible need for provision of fire hydrants at this location.
[illegible] 19/8/91
Refer to C.F.O.

ENDORSED [illegible] DATE 2/9/91

Seoi aon fhreagra chun
(Reply to)
AN RÚNAÍ
(The Secretary)

faoin uimhir seo:—
(Quoting)

AN ROINN COSANTA
(Department of Defence)

TEACH NA PÁIRCE
(Park House)

BAILE ÁTHA CLIATH, 7
(Dublin 7)

Teileafón 01 XXXXXX 771881 Ext. 2485

2/50719

16 August, 1991.

Dear Sir,

Re: Planning Applications which might affect the use of Casement Aerodrome, Baldonnel, Co. Dublin.

I am directed by the Minister for Defence to refer to applications:

91A/1262 - M. Keogh, Crooksling, Brittas.

91A/1255 - S. & D. Kelly, Ballymakelly, Newcastle.

91A/1282 - M. Farrell, Tootenhill Cottages, Rathcoole.

91A/1288 - M. Wall, Fortunestown Lane, Saggart.

91A/1310 - W. O'Reilly, Main Street, Newcastle.

No objection is seen to the proposed developments provided they do not exceed 11M in height above ground level.

Yours sincerely,

JOHN P. MORAN
EXECUTIVE OFFICER

The Secretary,
Dublin County Council,
Planning Department,
Irish Life Mall,
Lower Abbey Street,
Dublin 1.

(1)

80 + cms.

Mary Galvin.

(2)

Register Reference : 91A/1255 Date : 2nd August 1991

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

Applicant : Sean and Dora Kelly

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 29th July 1991

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

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 10:09:91
Time 9:30

Yours faithfully,

Paul Galvin
for PRINCIPAL OFFICER

DUBLIN Co. COUNCIL
14 AUG 1991
SAN SERVICES

SANITARY SERVICES
- 5 SEP 1991
Returned

Date received in Sanitary Services

FOUL SEWER

Insufficient information.
Applicant has not indicated the existing or proposed drainage arrangements.

Note :- The capacity of the receiving water at Newcastle treatment works does not allow for any further discharge from the Newcastle area.

SURFACE WATER

Refusal recommended.

1. It is not acceptable to discharge car wash effluent to a surface water system.
2. Applicant has not indicated how it is proposed to deal with the problem of the trapping of waste petroleum products using the 'cobblelock' system.
3. Applicant has not indicated a connection to a public sewer. The system to which it is proposed to discharge must be clearly identified.

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

T O'Sullivan 29/8/91. J.G. 2/9/91

4/8.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 10.09.91
Time 9.30

Register Reference : 91A/1255 Date : 2nd August 1991

.....

ENDORSED _____ DATE _____

WATER SUPPLY Available for normal use. 24 hour storage to be provided. Applicant to consult & agree daily water consumption & storage with S.S dept also to discuss the possible need for provision of fire hydrants at this location.

Refer to C.F.O. 19/8/91

.....

ENDORSED [signature] DATE 2/9/91

HD/ HG/ 9B.

Freagra chun (Reply to)
AN RÚNAÍ
(The Secretary)

faoin uimhir seo:—
(Quoting)

2/50719

AN ROINN COSANTA
(Department of Defence)

TEACH NA PÁIRCE
(Park House)

BAILE ÁTHA CLIATH, 7
(Dublin, 7)

PK

Teileafón 01-XXXXXX 771881 Ext. 2485

15 August, 1991.

Dear Sir,

Re: Planning Applications which might affect the use of Casement Aerodrome, Baldonnel, Co. Dublin.

I am directed by the Minister for Defence to refer to applications:

91A/1262 - M. Keogh, Crooksling, Brittas.

91A/1255 - S. & D. Kelly, Ballymakelly, Newcastle.

91A/1282 - M. Farrell, Tootenhill Cottages, Rathcoole.

91A/1288 - M. Wall, Fortunestown Lane, Saggart.

91A/1310 - W. O'Reilly, Main Street, Newcastle.

No objection is seen to the proposed developments provided they do not exceed 11M in height above ground level.

Yours sincerely,

JOHN P. MORAN
EXECUTIVE OFFICER

The Secretary,
Dublin County Council,
Planning Department,
Irish Life Mall,
Lower Abbey Street,
Dublin 1.

mal galvin.

DUBLIN COUNTY COUNCIL

REG. REF: 91A/1255.

DEVELOPMENT: Rehabilitate service station site.

LOCATION: Ballynakelly, Newcastle.

APPLICANT: Sean and Dora Kelly.

DATE LODGED: 29.7.91.

Roads are concerned about the high speed of traffic on this road, which leads to the Naas Dual Carriageway. The site is located on the outskirts of Newcastle village within the 30m.p.h. speed limit and has a long established use.

If permission is granted:-

1. Applicant to construct a new 2 metre concrete footpath on site frontage at edge of carriageway at his own expense. Boundary to be set back accordingly. Detailing of kerbs, entry radii, dishing of paths and kerbs at entrances to be to the satisfaction of the Local Area Engineer (Roads Maintenance).

2. Applicant to make a contribution of £1,500 towards Road Improvement and Traffic Management which will facilitate the development.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 13.09.91
Time 12.30

TR/EMcC
13.9.91.

SIGNED: _____ ENDORSED: _____

DATE: 13/9/91 DATE: 13/9/91

COMHAIRLE CHONTAE ATHA CLIATH

DUBLIN COUNTY COUNCIL

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

Telephone: 773066

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

Telephone: 724755
Extension: 231/234

12/3/92

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

LOCATION: Ballynakelly, Newcastle.

PROPOSED DEVELOPMENT: Rehabilitate service station.

APPLICANT: Sean & Dora Kelly.

PLANNING REG.REF.: 91A/1255

DATE OF RECEIPT OF SUBMISSION: 19/2/92

A Chara,

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

Compliance with conditions

Mise, le meas

A. Smith

PRINCIPAL OFFICER

Michael O'Kane,
Texaco Ireland Ltd.,
Texaco House,
Ballsbridge,
Dublin 4.

Texaco (Ireland) Limited

Texaco House
Ballsbridge Dublin 4
Phone (01) 686822
Telex 93673 Fax 684890

91A/1255
3.0.0
Lodt

Dublin County Council,
Planning Department,
Block 2,
Irish Life Centre,
Dublin 1.

Our Ref.: MO'K/ZP

February 7, 1992.

Re: Proposed Rehabilitation of Service Station at Newcastle, Co. Dublin. Register Reference Number 91A/1255. Decision No. P/5905/91.

Dear Sir,

We refer to above (Grant Ref. P/0440/92).

Condition No.7 requires

"that the details of boundary treatment between applicants property and adjoining properties be submitted for the written agreement of the Planning Authority prior to commencement of development".

Accordingly we attach details as required and request your written agreement to same.

Yours very truly,
TEXACO (Ireland) LIMITED

19 FEB 92

for: OPERATIONS MANAGER

Attchs.

The proposed Boundary treatment
at Newcastle S/S. Ballynakelly, Co Dublin.
by McKone Engineer. TEXACO (I) Ltd.

Reference Drawing No.3229. It is not proposed to make any alterations to the boundaries of the property with adjoining properties. The property on the RHS is bounded by a low wall (approximate height 0.8M). It is proposed to set a landscaped bed in front of this to contain a car parking lot for 4 No. cars and to prevent cars from rolling against the wall. On the LHS the property is bounded to the rere by a high wall (approximate height 2.0M). It is proposed to set a landscaped bed in front of this to contain the rere forecourt area.

The property is bounded on the LHS to the front by a line or ornamental bollards suitably capped (approximate height 0.6M), set on top of a dwarf wall (approximate height 0.5M) forming an approximate 1/2 to 3/4 solid boundary with neighbouring property as existing and as to satisfaction of the neighbour. It is proposed to set a landscaped bed to the front of this to contain the truck parking slab and front forecourt area. This landscaped bed would enclose the site of the existing main identification sign which is to be maintained in its present position.

The landscaping details are as attached.

LANDSCAPING SCHEDULE - NEWCASTLE S.S., CO. DUBLIN

LOCATION	FRONT BED BETWEEN CROSSOVERS	LHS BED INSIDE BOLLARDS	LHS BED FRONT GABLE BACK	RHS & FRONT BEDS AROUND CAR PARKING LOT
MAY				
PLANT TYPE	SALVIA/CINEVARIA	BEGONIA	SORBUS FASTIGIATA	LOBELIA/ALYSSUM
COLOUR	SCARLET/SILVER	RED/WHITE	GREEN	BLUE/WHITE
HEIGHT	250MM/175MM	150MM	2.5M	100MM
CENTRES	225MM	225MM	2.5M	100MM
OCTOBER				
PLANT TYPE	WALLFLOWER/ CINEVARIA	POLYANTHUS	SORBUS FASTIGIATA	BELLIS
COLOUR	RED/CLIPPED	MIXED	GREEN	MIXED
HEIGHT	200MM/175MM	175MM	2.5M	150MM
CENTRES	225MM	225MM	2.5M	150MM

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 Permission/[redacted]

Local Government (Planning and Development) Acts, 1963-1983

To: Michael O'Kane,
Texaco Ireland Ltd.,
Texaco House,
Ballsbridge, Dublin 4.

Decision Order Number and Date: P/5905/91, 20/12/91

Register Reference No.: 91A/1255

Planning Control No.:

Application Received on: 29/7/91

Applicant: Sean & Dora Kelly.

Add. Info. rec. 1/11/91

In pursuance of its functions under the above-mentioned Acts, the Dublin County Council, being the Planning Authority for the County Health District of Dublin, did by Order dated as above make a decision to grant Permission/[redacted] for:-

Proposal to rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision of a carwash, the erection of a service area and the installation of increased underground petrol & diesel storage at Ballynakelly, Newcastle.

SUBJECT TO THE FOLLOWING CONDITIONS

CONDITIONS	REASONS FOR CONDITIONS
1. The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by Additional Information received 1st November, 1991, save as may be required by the other conditions attached hereto.	1. To ensure that the development shall be in accordance with the permission and that effective control be maintained.
2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development.	2. In order to comply with the Sanitary Services Acts, 1878-1964.
3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.	3. In the interest of health.
4. That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development.	4. In the interest of safety and the avoidance of fire hazard.

Contd/....

Signed on behalf of the Dublin County Council

For Principal Officer

Date: 20/12/91

IMPORTANT: Turn overleaf for further information

CONDITIONS	REASONS FOR CONDITIONS
5. That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the Sanitary Services Department. In this regard, in relation to foul sewerage, the proposed car wash to be eliminated from the proposed development. In relation to surface water the applicant must satisfy the Sanitary Services Engineer regarding details of connection to surface water sewer or suitable watercourse. Roof drainage to by-pass the petrol interceptor system.	5. In order to comply with the requirements of the Sanitary Services Department.
6. That a 2 metre wide concrete footpath be constructed across the front of the property. Details of kerbs, entry radii, dishing of paths and kerbs at entrance to be agreed on site with the Area Roads Engineer.	6. In the interest of the proper planning and development of the area.
7. That the details of boundary treatment between applicants property and adjoining properties be submitted for the written agreement of the Planning Authority prior to commencement of development. NOTE: Applicant is advised that where encroachment or oversailing of adjoining property is intended, the written consent of adjoining property owners should be submitted as part of compliance submission on Condition 7.	7. In the interest of the proper planning and development of the area.

NOTE:

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.

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.

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

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

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

Register Reference : 91A/1255

Date : 4th November 1991

Our Ref.

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS 1963 TO 1990

Your Ref.

Date

Dear Sir/Madam,

DEVELOPMENT : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

APPLICANT : Sean and Dora Kelly

APP. TYPE : Additional Information

With reference to the above, I acknowledge receipt of additional information received on 1st November 1991.

Yours faithfully,

.....

for PRINCIPAL OFFICER

Michael O'Kane,
Texaco Ireland Ltd,
Texaco House,
Ballsbridge,
Dublin 4.

Texaco (Ireland) Limited

Texaco House
Ballsbridge Dublin 4
Phone (01) 686822
Telex 93673 Fax 684890

91A/1255

1.4.0

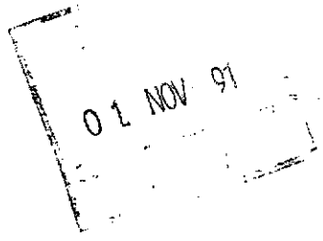
A.1

Dublin County Council,
Planning Department,
Block 2,
Irish Life Centre,
Lr. Abbey St.,
Dublin 1.

Our Ref.: MO'K/ZP

November 1, 1991.

Attn.: Ms. Mary Galvin,
Planning Officer.



ADDITIONAL INFORMATION

Re: Decision Order No.: P/4400/91
Register Reference: 91A/1255

Rehabilitation of Service Station at Ballynakelly
Newcastle, Co. Dublin.

Dear Sirs,

We refer to your letter of 20/9/1991 seeking additional information regarding the above under a number of points and wish to submit the following in respect of:

01. Reference Drawing No.3229. It is proposed to delineate the front boundary with a landscaped bed approximately 1.0M wide bounded by 225mm x 125mm precast concrete kerbs set on edge on sand and cement bedding on 150mm concrete bases to lines shown along the perimeter on these beds. Regarding the treatment of the area between the site boundary and the public carriageway, it is proposed to construct a footpath across the site frontage in line with the existing footpath on either side of the site. It is proposed to construct this footpath in concrete to match the existing footpath on LHS. It is proposed to join the footpath to the crossover surface by a radius line with a bullnosed finished edge. It is proposed to saw cut the line joining the outside of the proposed footpath at the crossover along the side of the carriageway and to extend the forecourt tarmac to marry smoothly to this saw cut edge. It is proposed to carry out all this work to Dublin County Council standards and as discussed with Roads Engineer, Mr. Tim Brick.

02. Reference Drawing No.3229. It is not proposed to make any alterations to the boundaries of the property with adjoining properties. The property on the RHS is bounded by a low wall (approximate height 0.8M). It is proposed to set a landscaped bed in front of this to contain a car parking lot for 4 No. cars and to prevent cars from rolling against the wall. On the LHS the property is bounded to the rere by a high wall (approximate height 2.0M). It is proposed to set a landscaped bed in front of this to contain the rere forecourt area.

The property is bounded on the LHS to the front by a line or ornamental bollards suitably capped (approximate height 0.6M), set on top of a dwarf wall (approximate height 0.5M) forming an approximate 1/2 to 3/4 solid boundary with neighbouring property as existing and as to satisfaction of the neighbour. It is proposed to set a landscaped bed to the front of this to contain the truck parking slab and front forecourt area. This landscaped bed would enclose the site of the existing main identification sign which is to be maintained in its present position.

03. The landscaping details are as attached.

04. Reference Drawing No.2002. It is proposed to erect 3 No. sets of Texaco and Star Logo signs on the canopy fascia i.e. 1 set on each side and 1 set on the front. The canopy fascia depth is shown at 1.1M and the proposed illuminated signs are scaled to match this fascia depth. This is a standard signalisation detail for Texaco canopies. We have discussed this matter with the applicants and we would be reluctant to offer to scale down the size or reduce the number of these signs. We do not feel that they are excessive with regard to size or number and we feel, and have been advised, that our canopy fascia signs are the least obtrusive of many corporate signalisation schemes.

05. Reference Drawing No.3230. Pump No.2 is shown to supply product for vehicles using diesel connected back to tanks D and E storing approximately 20,000 litres of this product.

Reference Drawing No.3229. The elevation shows the clear height to undersheets on the canopy cover to be 3.5M. Large vehicles not exceeding this height could negotiate a line through the site between the proposed lines of the rere pump island and the front pump islands. Trucks and large vehicles requiring head room greater than 3.5M will not be able to cross under the proposed canopy. It will not therefore be possible to cater for such vehicles.

0.6 The gable details for the protection of the existing adjoining dwelling house on the LHS middle boundary are as attached. We also enclose a note by Mrs. Dora Kelly concerning the agreement of this adjoining owner to the proposed development.

07. Reference Drawing No.3231. It is not proposed to make any connection to the existing foul sewer. The existing sewer lines are as marked up on Drawing No.3231 A attached.

08. Reference Drawing Nos. 3229, 3230 and 3231. Following discussion with Mr. Barry Morris, Sanitary Services Engineer, it is proposed to delete the car wash element of this proposal including all drainage provisions associated with this element. At his suggestion we will take this matter up with the Water Pollution Authority and will seek guidance on the obtaining of a Water Pollution Act Licence following which we may consider making a further separate planning application for a car wash facility.

Regarding the problem of trapping waste petroleum products we would propose to install a Visqueen Membrane in the sand bed as per the attached detail. We would not propose to install any system of drains through this sand layer as we would consider this might present a greater risk of fire or explosion than might normally be associated with an accidental spillage on the forecourt area. The proposed connection details to the public surface water drains are as attached.

We look forward to your favourable review of this information.

Yours very truly,
TEXACO (Ireland) LIMITED

McKane

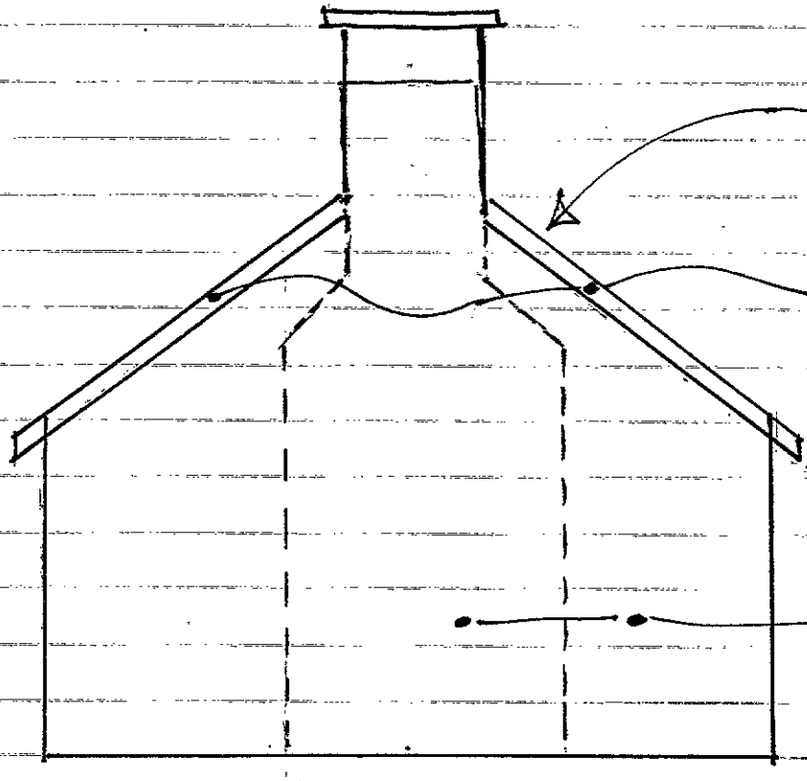
for: OPERATIONS MANAGER

Attchs.

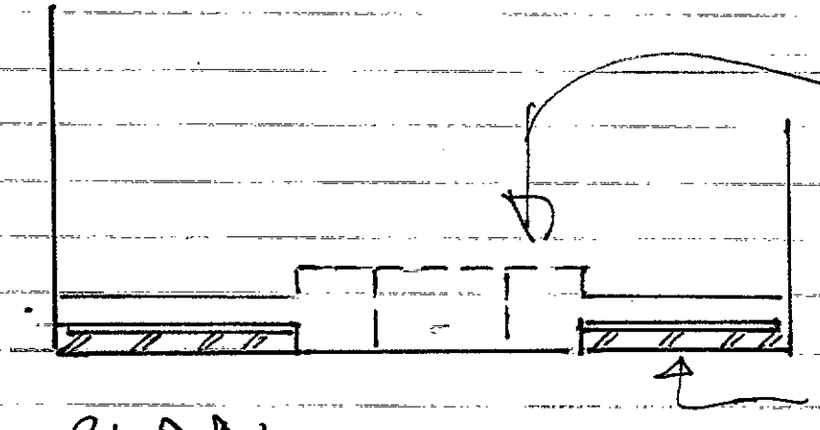
LANDSCAPING SCHEDULE - NEWCASTLE S.S., CO. DUBLIN

LOCATION	FRONT BED BETWEEN CROSSOVERS	LHS BED INSIDE BOLLARDS	LHS BED FRONT GABLE BACK	RHS & FRONT BEDS AROUND CAR PARKING LOT
MAY				
PLANT TYPE	SALVIA/CINEVARIA	BEGONIA	SORBUS FASTIGIATA	LOBELIA/ALYSSUM
COLOUR	SCARLET/SILVER	RED/WHITE	GREEN	BLUE/WHITE
HEIGHT	250MM/175MM	150MM	2.5M	100MM
CENTRES	225MM	225MM	2.5M	100MM
OCTOBER				
PLANT TYPE	WALLFLOWER/ CINEVARIA	POLYANTHUS	SORBUS FASTIGIATA	BELLIS
COLOUR	RED/CLIPPED	MIXED	GREEN	MIXED
HEIGHT	200MM/175MM	175MM	2.5M	150MM
CENTRES	225MM	225MM	2.5M	150MM

GABLE DETAILS FOR PROTECTION of EXISTING ADJOINING DWELLING HOUSE.



ELEVATION



PLAN

for Mr Paddy Kennedy
neighbour of Mrs Dora Kelly
Newcastle S/S
Ballynakelly
Newcastle. Co DUBLIN.

(scale 1/50.)

Newcastle Service Station,
Newcastle,
Co. Dublin.

October 29, 1991.

For Attention of the Planning Officer.

I wish to state that I have fully discussed the work that we intend doing with my neighbour Paddy Kennedy. We have assured him that the gable will be kept in a perfect condition for him. He is happy with our discussion and told us to go ahead. If you wish or require any further clarification on the matter concerned you can talk to him at any stage. I assure you that this is the truth.

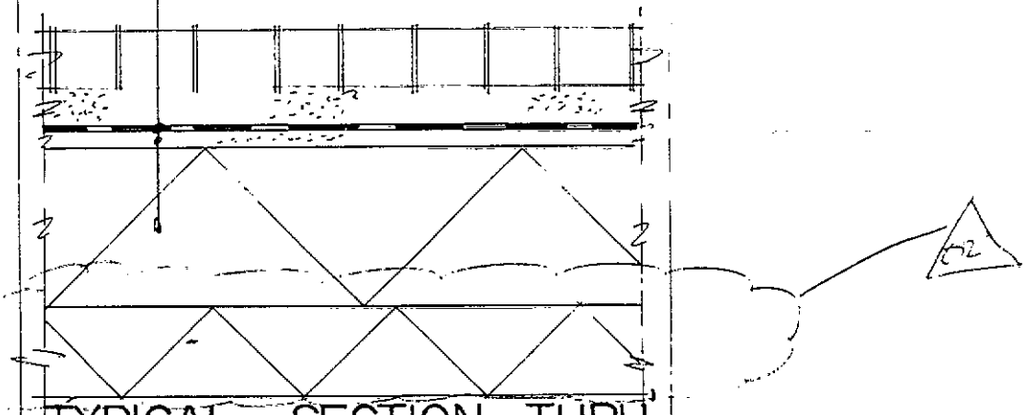
Yours sincerely,

Dora Kelly

DORA KELLY

80mm COBBLELOCK PAVING
ON 50mm SAND

ON 1000 GAUGE POLYTHENE
ON SAND BLINDING
ON 225mm OF 100mm BROKEN STONE



TYPICAL SECTION THRU FORECOURT

D
01

ACO DRAIN

ETE MANHOLES

NOTES ON CONSTRUCTION

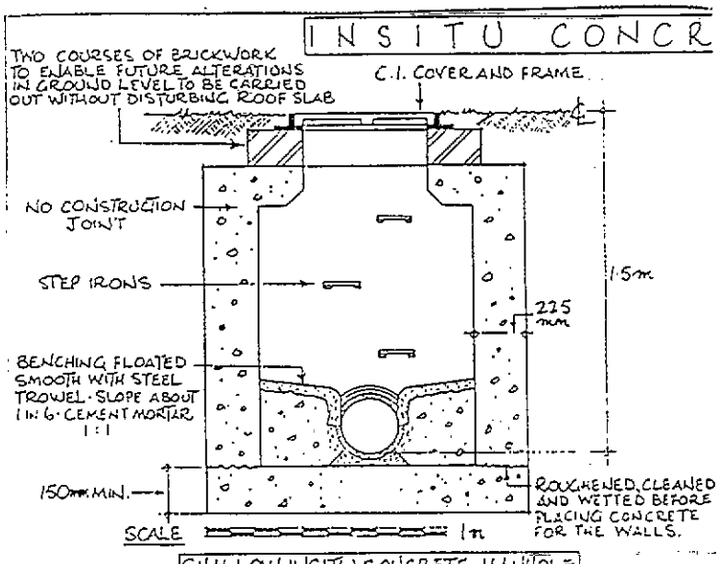
1. BASE. Design considerations as for brick manholes.*
2. WALLS. Thickness of walls should be not less than those specified for brick manholes e.g. 225mm if between 0.9 & 1.8m to invert.
3. ROOF SLAB. Design considerations as for brick manholes,* and slab cover should be monolithic with the walls.
4. BENCHING. Design considerations as for brick manholes.*
5. RELIEVING ARCHES. Relieving arches over the pipes can be omitted.
6. CONCRETE. Concrete should be composed of not less than one part cement to six parts all-in ballast. It should be placed in position by hand and thoroughly consolidated insitu by means of suitable punning & vibration so as to produce a dense homogenous mass. Where additional concrete is to be placed on a finished concrete surface, the surface should be thoroughly roughened, cleaned and wetted beforehand.
7. GENERAL. This type of manhole is especially suitable on sites involving the construction of a large number of similar manholes, then repetition shuttering can be used resulting in a considerable saving in cost. Otherwise insitu concrete manholes could be more expensive than brickwork.

- It is proposed to form a cast insitu concrete M.H. at junction of proposed outfall to line of storm drain as requested by Sanitary Services Dept. D.C.C ref Mr Barry Morris.

- The outfall drain is proposed to be 100mm ϕ to discharge to the existing 225mm ϕ drain running under the line of the existing footpath.

- as the invert of the existing drain is approx 1.0m deep it is proposed to connect the outfall drain by means of a dropped bench ramp.

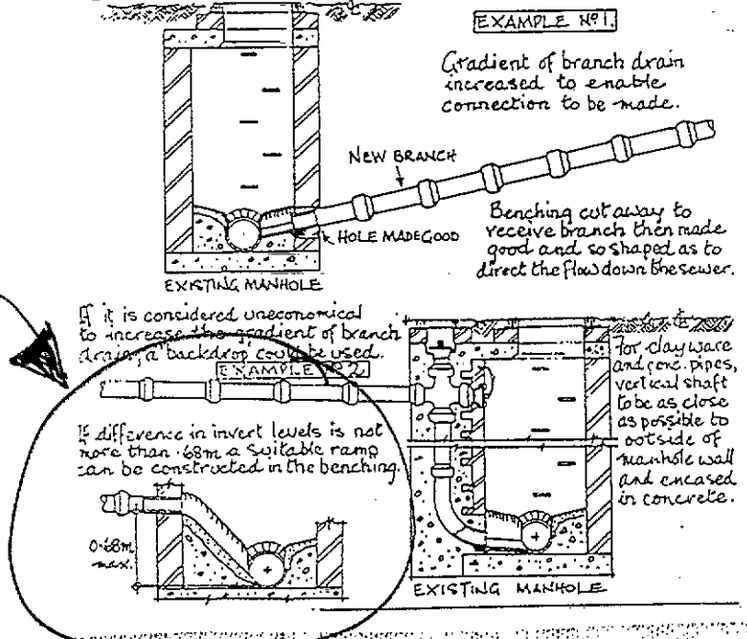
INSITU CONCR



SHALLOW INSITU CONCRETE MANHOLE

* FOR DETAILS REGARDING BRICK MANHOLES SEE SHEET 28.

(A) EXISTING MANHOLE



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

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

Decision Order Number : P/ 4400 /91 Date of Decision : 18th September 1991

Register Reference : 91A/1255 Date Received : 29th July 1991

Applicant : Sean and Dora Kelly

Development : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground

Location : Ballynakelly, Newcastle

Dear Sir/Madam,

With reference to your planning application, received here on 29.07.91 in connection with the above,I wish to inform you,that before the application can be considered under the Local Government(Planning and Development) Acts 1963 - 1990,the following additional information must be submitted in quadruplicate:-

01 Insufficient details of the definition of the proposed front boundary of the site have been provided together with treatment of the area between site boundary and the public carriageway. The applicant is requested to submit these details.

02 Insufficient details have been submitted with regard to boundary treatment of the property with adjoining properties. The applicant is requested to submit these details in order to show that the proposed development will not have an adverse affect on adjoining properties.

03 Insufficient landscaping details have been submitted. The applicant is requested to submit a full landscaping plan together with details of planting times and a maintenance programme.

04 In view of the location of site within the environs of the village of

Michael O'Kane,
Texaco Ireland Ltd,
Texaco House,
Ballsbridge,
Dublin 4.

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

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

Newcastle the Planning Authority considers that the amount of advertising maybe excessive with regard to size of signs and number of signs. In this regard insufficient information has been submitted of the details of all the signs. The applicant is requested to clarify if he is in a position to scale down the size and reduce the number of proposed signs.

05 Clarification is required to whether or not facilities are being provided for vehicles using diesel and if so details of circulation for trucks and other large vehicles are required.

06 Details of protection of existing house whose gable is to be exposed are required together with clarification of the agreement or otherwise of the adjoining owner to the proposed development.

07 Insufficient information of foul sewer details have been submitted and these are required before this application can be fully considered. Existing and proposed foul sewer details have not been submitted. The capacity of the Newcastle treatment works does not allow for any further discharge from the Newcastle area.

08 In relation to surface water disposal the discharge of car wash effluent to a surface water system is unacceptable. Applicant has not indicated how it is proposed to deal with the problem of the trapping of waste petroleum products using the cobblelook system. A connection to a public surface water drain is not indicated.

Please mark your reply "ADDITIONAL INFORMATION" and quote the Reg. Ref. No. given above.

Yours faithfully,

.....

PRINCIPAL OFFICER

Date : 20/9/91

RECEIPT CODE

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

Issue of this receipt is not an acknowledgement that the fee tendered is the correct fee.

N 47590

PAID BY
CASH
CHEQUE
M.O.

£40.00

Received this 20th day of August 19

from Texaco (Ire) Ltd,
Texaco House,
Ballsbridge

the sum of forty Pounds

Pence, being

fee on 91A/1255

Noreen Deane Cashier

S. CAREY
Principal Officer

TEXACO (IRELAND) LIMITED

166675

CE NO.	ORDER NO.	AMOUNT	DATE	INVOICE NO.	ORDER NO.	AMOUNT
00001	PL/FEE	40.00				

DUBLIN C.
PLANNING
RECEIVED
20 AUG 1991

Attn Mr Richard Whelan

as discussed re Reg Ref 91/A/1255

following your letter 6/8/91

M O'Keeve

Engineer

M.OK.

NOTICE THE ATTACHED CHEQUE IS TENDERED IN FULL PAYMENT OF ITEMS STATED ABOVE. IF CORRECT DETACH CHEQUE OTHERWISE RETURN BOTH CHEQUE AND STATEMENT.

A/C NO. 16276

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

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

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

Register Reference : 91A/1255 Date : 30th July 1991

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

Dear Sir/Madam,

DEVELOPMENT : Rehabilitate service station site to include the demolition of a derelict unserviced dwelling, the erection of new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage

LOCATION : Ballynakelly, Newcastle

APPLICANT : Sean and Dora Kelly

APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to the above, I acknowledge receipt of your application received on 29th July 1991.

Yours faithfully,

.....

for PRINCIPAL OFFICER

Michael O'Kane,
Texaco Ireland Ltd,
Texaco House,
Ballsbridge,
Dublin 4.

Dublin County Council
Comhairle Chontae Atha Cliath

Planning Application Form/ Bye - Law Application Form

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

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

2. Postal address of site or building NEWCASTLE SERVICE STATION £100 29/7
(If none, give description sufficient to identify) BALLYNAKELLY. NEWCASTLE. Co DUBLIN.

3. Name of applicant (Principal not Agent) SEAN and DORA KELLY. N44358
Address as above. Tel. No 589403

4. Name and address of person or firm responsible for preparation of drawings Michael O'Kane B.Sc. C.Eng M.I.E.I. c/o TEXACO (I) Ltd. Tel. No 686827

5. Name and address to which notifications should be sent TEXACO HOUSE BALLSBRIDGE. D4 £200 N45400

6. Brief description of proposed development Proposed redevelopment of service station forecourt.

7. Method of drainage Mains 8. Source of Water Supply mains

9. In the case of any building or buildings to be retained on site, please state:-
(a) Present use of each floor or use when last used. ground floor commercial. 1st floor residential
(b) Proposed use of each floor No change

Incl Indx

10. Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof? YES see Drg No 2904A Note 6.

11. (a) Area of Site 1540 Sq. m.

17/7/91 (b) Floor area of proposed development = site area of development. 1100 Sq. m.

(c) Floor area of buildings proposed to be retained within site one storey on 2 floors 500 Sq. m.

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

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

Forecourt to be laid out in accordance with D.S.A.

14. Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:
As far as possible wrt Canopy.

15. List of documents enclosed with application 29 JUL 91
Newspaper Notice, 4 No Copies Site location Map
4 X Drg Nos 2904A, 3229, 3231, 3230, 2001, 2002, 2509A.
4 X specification. building, plumbing, electrical works
4X canopy design

16. Gross floor space of proposed development (See back) Total Forecourt 11.00 Sq. m.

No of dwellings proposed (if any) None Class(es) of Development 8.

Fee Payable £ 100.00 Basis of Calculation Petrol filling Station

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

RECEIVED
29 JUL 1991
P.O. SEC.

Signature of Applicant (or his Agent) M O'Kane. 17/7/91

Application Type P/P

Register Reference 91A/1255

Amount Received £

Receipt No

Date 21-5

FOR OFFICE USE ONLY 2.32.12.8

DUBLIN COUNTY COUNCIL — Take notice that Sean and Dora Kelly intend to apply to the planning authority for permission to rehabilitate their service station site at Ballynakelly, Newcastle, Co. Dublin, to include the demolition of a derelict unserviced dwelling, the erection of a new canopy over 3 no. pump islands, the provision for a carwash, the erection of a service area, and the installation of increased underground petrol and diesel storage.

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

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

1. Name and Address of applicant.

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

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

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

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

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

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

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

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

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

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

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

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

Applicants to comply in full with the requirements of the Local Government (W in particular the licencing provisions of Sections 4 and 16.

New Charges
Effective 15/2/88

PLANNING APPLICATIONS

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

BUILDING BYE-LAW AF

CLASS NO.	DESCRIPTION	
A	Dwelling (House/Flat)	A £55 each
B	Domestic Extension (improvement/alteration)	B £30 each
C	Building — Office/ Commercial Purposes	C £3.50 per m^2 (min. £70)
D	Agricultural Buildings/Structures	D £1.00 per m^2 in excess of 300 sq. metres (min. £70) (max. £300)
E	Petrol Filling Station	E £200
F	Development or Proposals not coming within any of the foregoing classes.	F £9.00 per 0.1 ha. (£70 min.)

Cheques etc. should be made payable to: Dublin County Council.
Min. Fee £30.00
Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external w Max. Fee £20,000
For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 19

COMHAIRLE CHONTAE ÁTHA CLIATH

PAID BY •

DUBLIN COUNTY COUNCIL

46/49 UPPER O'CONNELL STREET,

DUBLIN 1.

RECEIPT CODE

CASH

CHEQUE ✓

M.O.

B.L.

I.T.

BYE LAW APPLICATION.

REC. No. N 45400

£200.00

Received this 9th day of July 1994

from Texaco (Irl.) Ltd,

Ballsbridge

D.4

the sum of two hundred Pounds

Pence, being Fee for

bye-law application at Newcastle Service Station

Station

Aoelle Doane Cashier

S. CAREY

Principal Officer

RECEIPT CODE

COMHAIRLE CHONTAE ATHA CLIATH

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

N 44358

£100.00

Received this 29th day of July 1991

from Texaco (Ire.) Ltd.
Ballsbridge
D4

the sum of one hundred Pounds
Pence, being fee for
planning application at Newcastle Service
Station, Ballymakelly

[illegible] Cashier

S. CAREY
Principal Officer

Class 8

Texaco (Ireland) Limited

Texaco House
Ballsbridge Dublin 4
Phone (01) 686822
Telex 93673 Fax 684890

The Planning Department,
Dublin County Council,
Irish Life Centre,
Lr. Abbey St.,
Dublin 1.

Our Ref.: MO'K/ZP

July 15, 1991.

Dear Sirs,

On behalf of Sean and Dora Kelly we wish to apply for planning permission for the proposed redevelopment of the forecourt area at Newcastle Service Station, Ballynakelly, Newcastle, Co. Dublin.

The works proposed are shown and described on the attached drawings and in the specifications.

We also wish to apply for Building Bye Law Approval for these works and attach 4 No. Copies Design Calculations regarding the canopy element for particular attention.

We are conscious that all works will require to be put in hand in accordance with the Dangerous Substances Act Regulations S.I. 311 1979 and have set out the works to achieve compliance with above and to enable a Dangerous Substances Act Licence to be granted in due course.

As the site stands it is not possible to seek and obtain a Dangerous Substances Act Licence without giving some undertakings to improve the drainage provisions on the site. This in effect means the resetting of the forecourt area to allow for collection of possible petrol and diesel spillages and the provision of suitable means of intercepting these before discharging the storm outfall. This major area of non-compliance with Dangerous Substances Act Requirements is attended to by this proposed forecourt redevelopment.

29 JUL 91

It is also proposed to provide for a car wash facility discharging to the storm outfall and in this case we are conscious that this discharge will require to be put in hand and operated in accordance with the Water Pollution Act 1977 and have set out the works to enable a Water Pollution Act Licence to be granted in due course. We have identified an Irish Company manufacturing an environmentally friendly car wash detergent and waste water additives as may be required to allow Water Pollution Act discharge characteristics to be complied with. We attach 4 No. Copies Safety Data Fact Sheets on constituent compounds used in the manufacture of this detergent for information purposes with respect to operation of Water Pollution Act Licence.

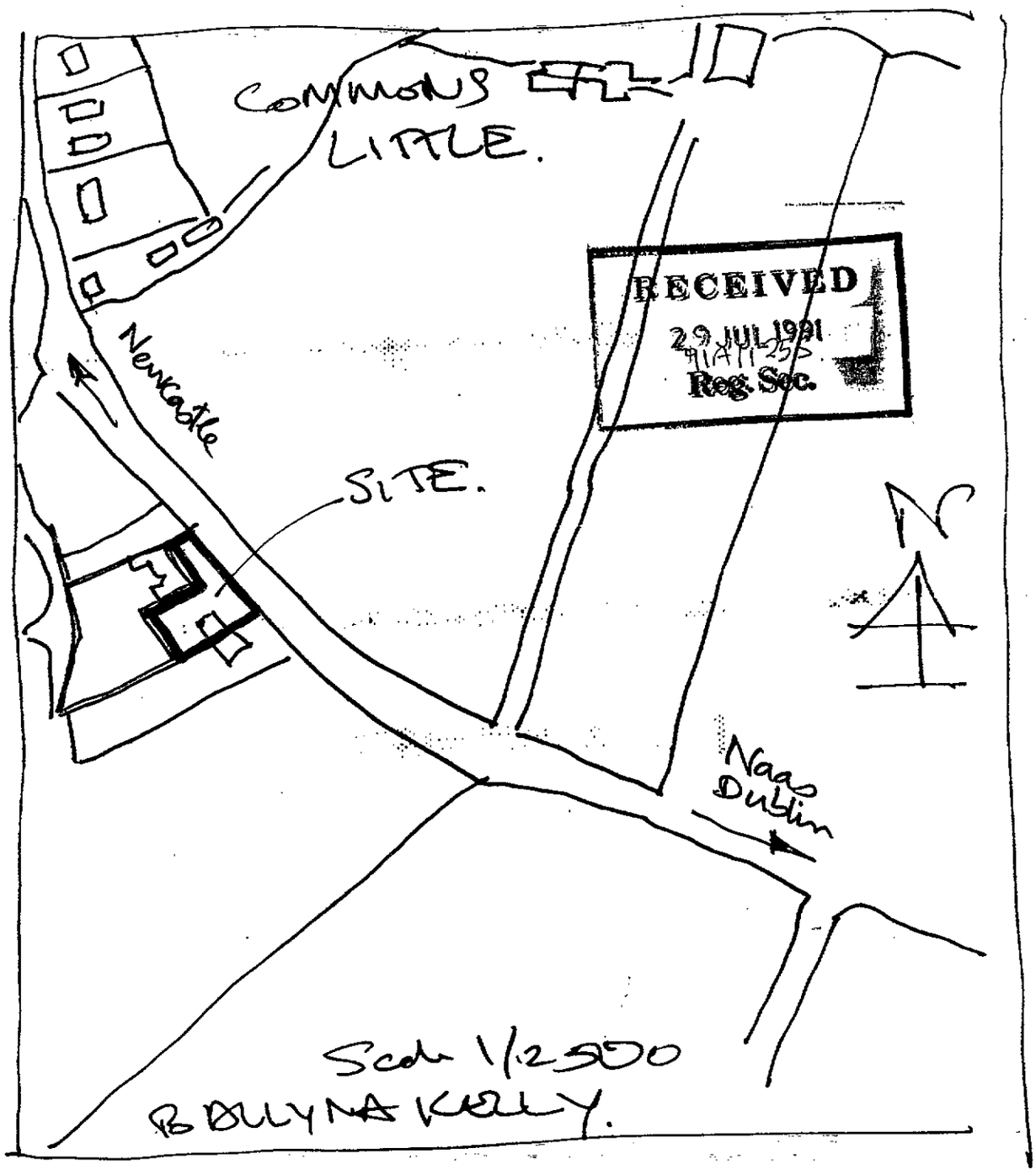
We look forward to your esteemed favourably reaction to this matter.

Yours very truly,
TEXACO (Ireland) LIMITED

McKeone

for: OPERATIONS MANAGER

Encls.



SITE LOCATION MAP
KELLY'S SERVICE STATION
NEWCASTLE. CO DUBLIN.

Deckel Blue Star Products Ltd.

Chemical Manufacturer's

BLUE STAR

Windmill Road, Elphin, Castlerea, Co. Roscommon.
Telephone: (078) 35375
Fax: (078) 35414

Our Ref.

Your Ref.

Date.

RECEIVED
29 JUL 1991
91/A/1255
Reg. Sec.

Dear Michael,

Thank you for your recent query. I have gotten together Ecological data on the surfactants used in our environmentally friendly Car Wash.

This shows that All our surfactants adhere to the various E.C directives and statutory instruments.

The Ph of a 1% solution is 9.86. We can incorporate a Waste Water Additive to lower this ph if necessary. For example, 0.63 litres of the Waster Water Additive in a 1000L Waste Tank will lower the ph to 7.

If you have any further queries do not hesitate to contact me.

I look forward to hearing from you at your earliest convenience.

Yours Sincerely,

Michael Horan

Registered No: 157283

PRODUCT NAME	SANDOQUAD T5M	D91913
Chemical characterisation	fatty amine poly ether contains 2-methyl-2.4-pentanediol	

1. PHYSICAL DATA

1.1 Melting / softening point	n.a.
1.2 Boiling point	approx 100 deg C
1.3 Decomposition temperature method of determination	n.a
1.4 pH	approx 7 (at 10 g/l water)
1.5 Solubility in water @ 20 deg C @ 0 deg C	miscible
1.6 Odour	slight
1.7 Physical form	liquid

2. STORAGE STABILITY AND HANDLING

2.1 Special precautions for storage	none
2.2 Incompatible substances	none
2.3 Hazardous decomposition products	none
2.4 Hazardous polymerisation products	none
2.4.1 Preventative measures	n.a.
2.5 Protective measures	gloves goggles
2.6 Special protective measures	none
2.7 Measures after spillage 2.8 Disposal	Soak up with absorbent material and dump in accordance with local Regulations.Rinse away residues with plenty of water.

3. IGNITION AND COMBUSTION DATA

3.1 Flash point	over 100 deg C
method of determination	
3.2 Extinguishing media	water mist dry powder carbon dioxide foam
3.3 Special fire precautions	none
3.4 Special fire and explosion hazard	none

4. TOXICOLOGICAL DATA

4.1 Acute oral toxicity	LD(50)	over 2000 mg/kg tested in rats
4.2 Skin irritation		irritating
4.3 Eye irritation		irritating
Extra toxicological information		

5. EMERGENCY AND FIRST AID PROCEDURES

On contact with eye or skin rinse thoroughly with plenty of water.
Consult a doctor

6. ECOLOGICAL DATA

6.1 Biological elimination		approx 80% TOC batch method
6.2 Fish toxicity	LC(50)	
	LC(0)	
	EC(50)	1 - 10 mg/l
	testing time	24 hrs
	species	Daphnia
6.3 Inhibition of activity of waste water bacteria		
no inhibition level		
50% inhibition level		over 10 mg/l
test procedure		OECD Method No.209

7. ADDITIONAL INFORMATION

The product is not subject to International Transport Regulations.
Classified according to CPL Regulations 1984 as IRRITANT R36/38
S24,26,39

Sandoz Chemicals, A Division of Sandoz Products Limited, Calverley Lane, Horsforth, Leeds LS18 4RP.
Telephone (0532) 584646 Telex 557114 SANDOZ LEEDS Telefax (0532) 390063

PRODUCT NAME SANDOXYLATE PN8 D61825

Chemical characterisation Alkyl aryl polyglycol ether

1. PHYSICAL DATA

1.1 Melting / softening point	below 1 deg C
1.2 Boiling point	over 100 deg C
1.3 Decomposition temperature method of determination	
1.4 pH	6 - 8 (at 10 g/l water)
1.5 Solubility in water @ 20 deg C @ 0 deg C	miscible
1.6 Odour	slight
1.7 Physical form	liquid

2. STORAGE STABILITY AND HANDLING

2.1 Special precautions for storage	none
2.2 Incompatible substances	none
2.3 Hazardous decomposition products	none
2.4 Hazardous polymerisation products	none
2.4.1 Preventative measures	n.a.
2.5 Protective measures	goggles
2.6 Special protective measures	Avoid prolonged contact with the skin due to defatting
2.7 Measures after spillage 2.8 Disposal	Soak up with absorbent material and dump in accordance with local Regulations. Rinse away residues with plenty of water.

3. IGNITION AND COMBUSTION DATA

3.1 Flash point	n.a.
method of determination	
3.2 Extinguishing media	water mist carbon dioxide dry powder foam
3.3 Special fire precautions	none
3.4 Special fire and explosion hazard	none

4. TOXICOLOGICAL DATA

4.1 Acute oral toxicity	LD(50)	over 2000 mg/kg tested in rats
4.2 Skin irritation		non-irritating
4.3 Eye irritation		irritating
Extra toxicological information		

5. EMERGENCY AND FIRST AID PROCEDURES

Rinse with plenty of water.

6. ECOLOGICAL DATA

6.1 Biological elimination	50-100% OECD screening
6.2 Fish toxicity	LC(50)
	LC(0)
	EC(50)
	testing time
	species
6.3 Inhibition of activity of waste water bacteria	
no inhibition level	
50% inhibition level	
test procedure	

7. ADDITIONAL INFORMATION

The product is not subject to International Transport Regulations.
Classified according to CPL Regulations 1984 as IRRITANT R36 S26,39

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Sandoz Chemicals, A Division of Sandoz Products Limited, Calverley Lane, Horsforth, Leeds LS18 4RP.
Telephone (0532) 584646 Telex 557114 SANDOZ LEEDS Telefax (0532) 390063

Safety Data Sheet

SANDOZ CHEMICALS

Issue date 28/06/89 replacing data sheet issued on 31/03/87

PRODUCT NAME	SANDOPAN D-PC LIQUID	D67365
Chemical characterisation	Alkyl phenol ethoxylate anionic modified in aqueous medium	

1. PHYSICAL DATA

1.1 Melting / softening point	n.a.
1.2 Boiling point	approx 100 deg C
1.3 Decomposition temperature method of determination	n.a.
1.4 pH	7 - 8 (at g/l water)
1.5 Solubility in water @ 20 deg C @ 0 deg C	miscible
1.6 Odour	slight
1.7 Physical form	liquid

2. STORAGE STABILITY AND HANDLING

2.1 Special precautions for storage	none
2.2 Incompatible substances	none
2.3 Hazardous decomposition products	none
2.4 Hazardous polymerisation products	none
2.4.1 Preventative measures	n.a.
2.5 Protective measures	goggles
2.6 Special protective measures	none
2.7 Measures after spillage 2.8 Disposal	Soak up with absorbent material and dump in accordance with local Regulations.Rinse away residues with plenty of water.

3. IGNITION AND COMBUSTION DATA

3.1 Flash point	n.a.
method of determination	
3.2 Extinguishing media	water mist dry powder foam carbon dioxide
3.3 Special fire precautions	none
3.4 Special fire and explosion hazard	none

4. TOXICOLOGICAL DATA

4.1 Acute oral toxicity	LD(50)	over 2000 mg/kg tested in rats
4.2 Skin irritation		non-irritating
4.3 Eye irritation		irritating
Extra toxicological information		

5. EMERGENCY AND FIRST AID PROCEDURES

Rinse immediately with plenty of water and seek medical advice

6. ECOLOGICAL DATA

6.1 Biological elimination		over 80% COD batch method
6.2 Fish toxicity	LC(50)	
	LC(0)	
	EC(50)	over 100 mg/l
	testing time	24 hrs
	species	Daphnia
6.3 Inhibition of activity of waste water bacteria		
	no inhibition level	
	50% inhibition level	over 100 mg/l
	test procedure	ETAD Method No.103

7. ADDITIONAL INFORMATION

The product is not subject to International Transport Regulations.
Classified according to CPL Regulations 1984 as IRRITANT R36 S26-39

Sandoz Chemicals, A Division of Sandoz Products Limited, Calverley Lane, Horsforth, Leeds LS18 4RP.
Telephone (0532) 584646 Telex 557114 SANDOZ LEEDS Telefax (0532) 390063

PRODUCT NAME SANDOTERIC CDP LIQUID

Chemical characterisation

Aqueous solution of alkylamine dicarboxylate, amphoteric.

1. PHYSICAL DATA

1.1 Melting / softening point		
1.2 Boiling point		approx 100 deg C
1.3 Decomposition temperature method of determination		over 100 deg C
1.4 pH		5 (at g/l water)
1.5 Solubility in water	@ 20 deg C @ 0 deg C	miscible
1.6 Odour		slight
1.7 Physical form		liquid

2. STORAGE STABILITY AND HANDLING

2.1 Special precautions for transport	none
2.2 Incompatible substances	none
2.3 Hazardous decomposition products	none
2.4 Hazardous polymerisation products	none
2.4.1 Preventative measures	n.a.
2.5 Protective measures	goggles
2.6 Special protective measures	See section 7
2.7 Measures after spillage 2.8 Disposal	Soak up with absorbent material and dump in accordance with local Regulations. Rinse away residues with plenty of water.

3. IGNITION AND COMBUSTION DATA

3.1 Flash point n.a.
method of determination
3.2 Extinguishing media water mist carbon dioxide dry powder foam

3.3 Special fire precautions
none

3.4 Special fire and explosion hazard
none

4. TOXICOLOGICAL DATA

4.1 Acute oral toxicity LD(50) over 2000 mg/kg tested in rats

4.2 Skin irritation non-irritating tested on rabbits

4.3 Eye irritation irritating tested on the eyes of rabbits
Extra toxicological information

5. EMERGENCY AND FIRST AID PROCEDURES

Rinse with plenty of water

6. ECOLOGICAL DATA

6.1 Biological elimination 50-100% COD static method

6.2 Fish toxicity LC(50) over 100 mg/l
LC(0)
EC(50)
testing time 24 hrs
species Daphnia

6.3 Inhibition of activity of waste water bacteria
no inhibition level
50% inhibition level over 100 mg/l
test procedure ETAD Method No.103

7. ADDITIONAL INFORMATION

Due to defatting effect avoid prolonged contact with the skin.

Sandoz Chemicals, A Division of Sandoz Products Limited, Calverley Lane, Horsforth, Leeds LS18 4RP.
Telephone (0532) 584646 Telex 557114 SANDOZ LEEDS Telefax (0532) 390063

BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS

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

CALCULATIONS

FOR

CANOPY

FOR

NEWCASTLE SERVICE STATION,

NEWCASTLE,

CO. DUBLIN.

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

19 July 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.

CANOPY MATERIALS SPECIFICATION

1. ROOF SHEETING.

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

Max span (single span) = 2200 m.m.
Max span (double span) = 2400 m.m.
Live load taken as 0.75 Kn/m.sq.
Deflection limited to span/200

2. CEILING SHEETING.

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

3. FASCIA

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

4. GUTTERS

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

5. ROOF AND CEILING PURLINS

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

MULTIBEAMS are cold formed from hot dipped galvanised steel coil to B.S. 2989 : 1982. Grade of steel is Z 35, with a minimum yield stress of 350 N/m.m.sq. Average zinc coating thickness is 0.02 m.m. to each side.

NEWCASTLE SERVICE STATION. 19-7-91.

LOADING.

1. Superimposed Loading : 0.75 Kn/m^2. C.P.3. Chapter V

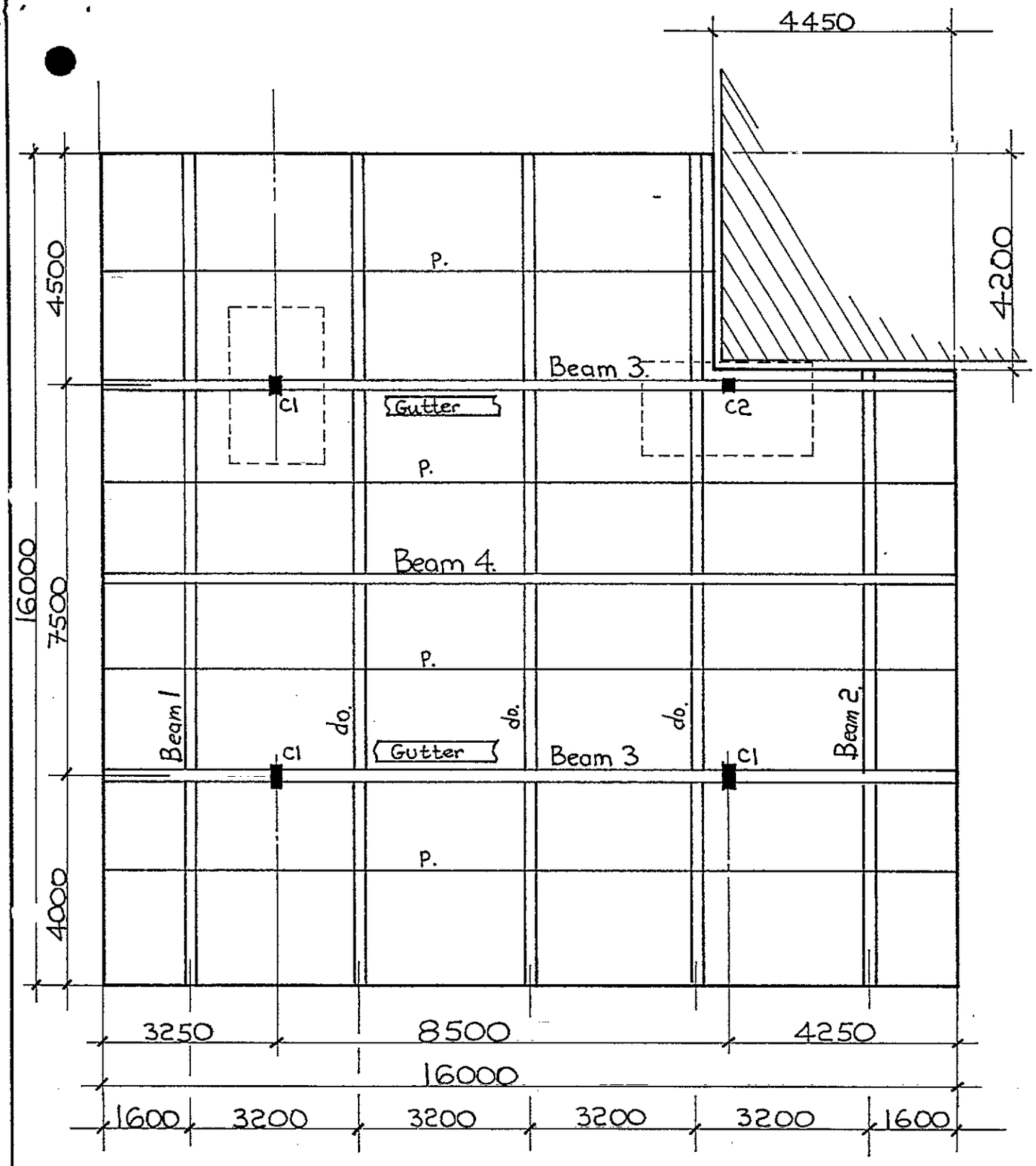
2. Dead Loading : 0.20 Kn /m^2. Deck, Purlins, Soffit

3. Fascia 1100 deep : Total amount of plate in 1 m. of fascia

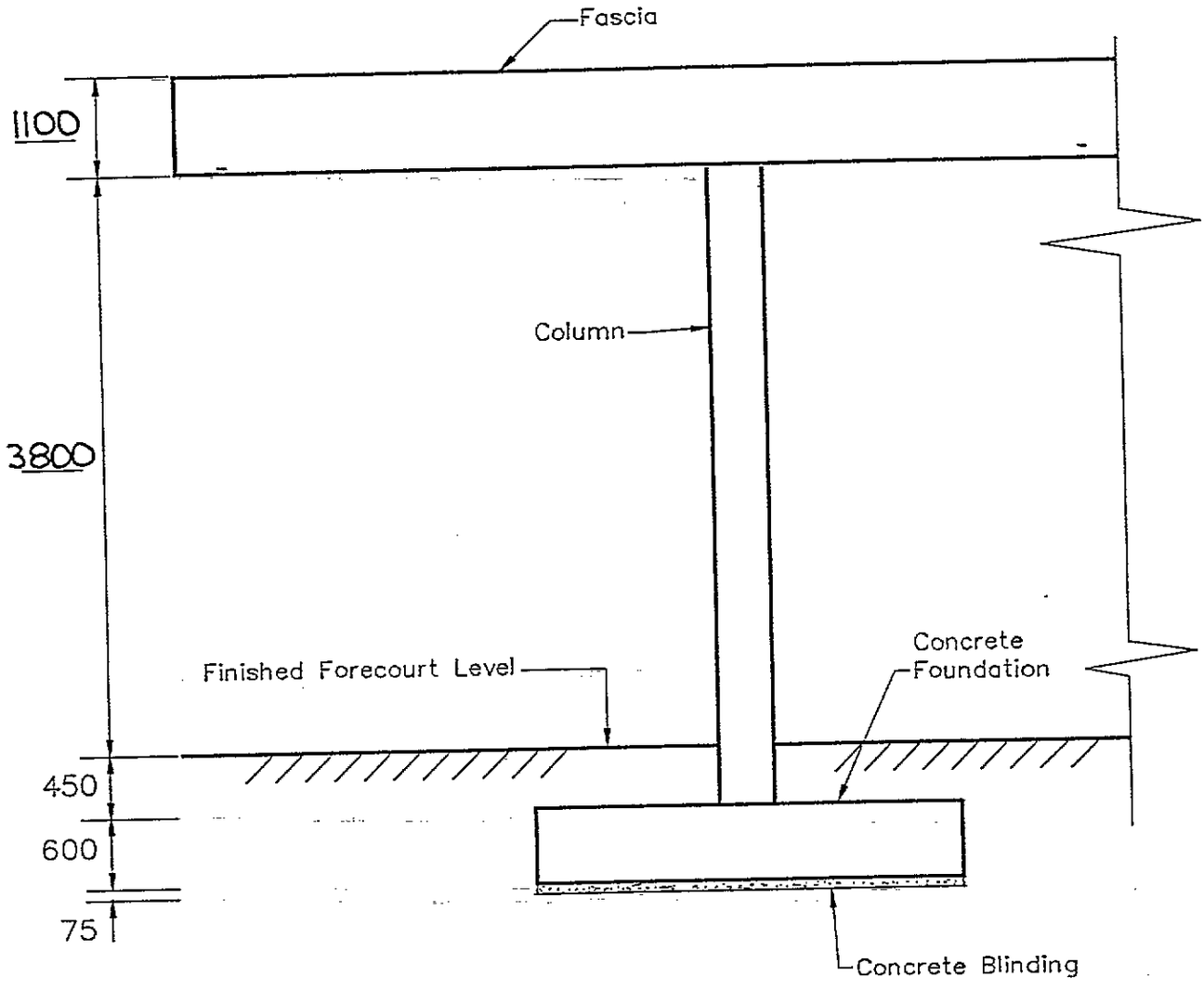
= 1895 m.m.
Weight/m. = 1895 x 7.85 x 3 / 100000
= 0.45 kn. / m.

4. Wind Loads.

Basic Wind Speed	=	46	m./sec.			
S1	=	1.00				
S2	=	0.65	(Ground Roughness 3, Class B)			
S3	=	1.00				
Vs	=	29.9	m./sec.			
q	=	0.55	kn./m^2			
Fascia Horz. Load	=	1.15	kn./m	(Cp	=	1.9)
Wind Pressure	=	0.16	kn./m^2	(Cp	=	0.3)
Wind Suction	=	-0.71	kn./m^2	(Cp	=	-1.3)blocked
Wind Suction	=	-0.27	kn./m^2	(Cp	=	-0.5)unblock.



BERNARD FINNEGAN LTD. CONSULTING ENGINEERS 5 MILLBROOK CLOSE SALLYBROOK GLANMIRE, CO. CORK. TEL 021-822336 FAX 021-821776	CLIENT S.F.L. Engineering Ltd. PROJECT Newcastle S.S, Co. Dublin. DRG. TITLE Roof Plan.	DRAWN BY B.F. SCALE 1 : 100 DATE 19-7-91 **DRG.NO. 234-1**

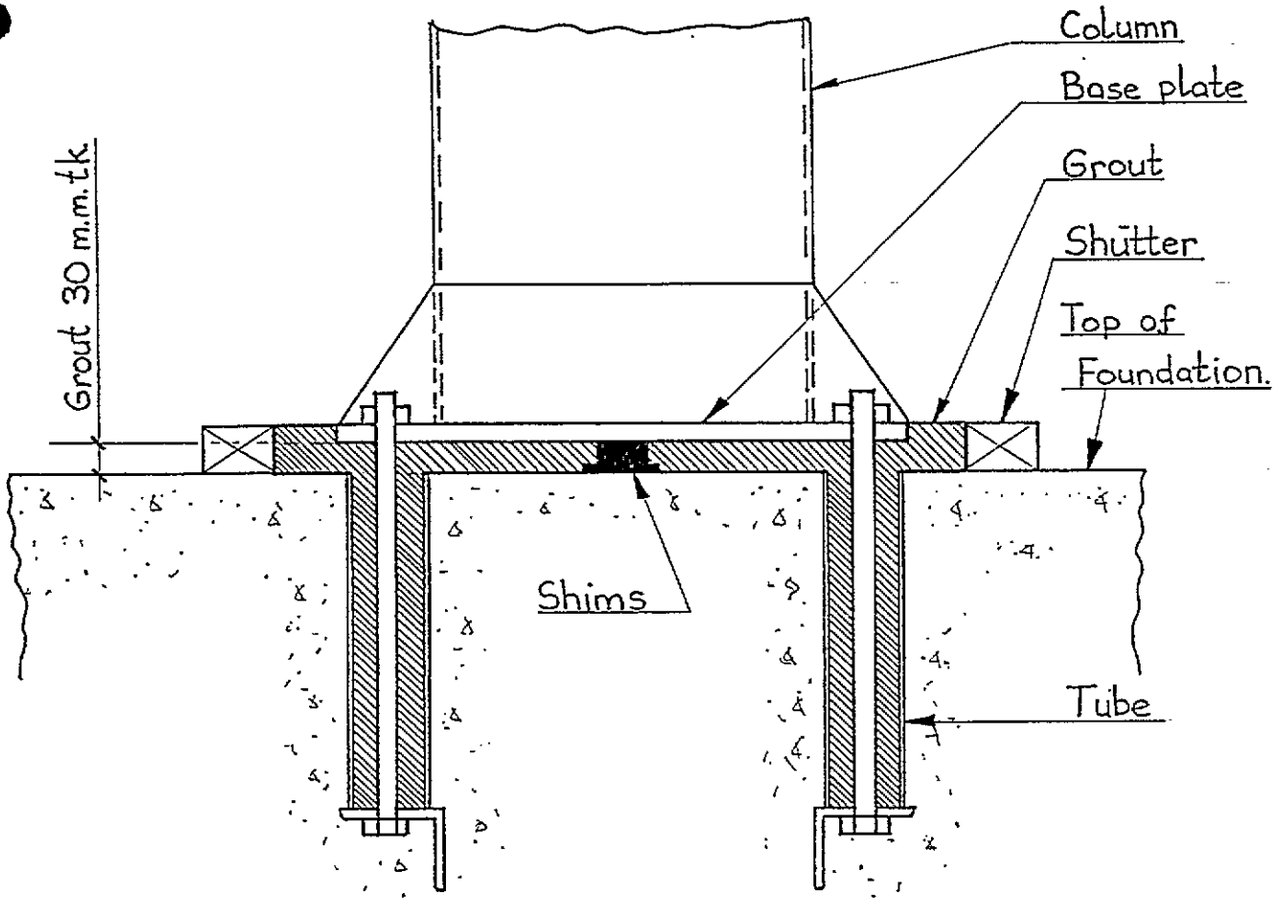


SECTION THROUGH CANOPY AND BASE

BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS
5 MILLBROOK CLOSE
SALLYBROOK
GLANMIRE, CO. CORK.
TEL 021-822336
FAX 021-821776

CLIENT S.F.L. Engineering Ltd.
PROJECT General Details
DRG. TITLE Section through Canopy + Base

DRAWN BY B.F.
SCALE 1 : 50
DATE 14-6-91
DRG.NO. 220-1



BUILDER'S WORK DURING CANOPY ERECTION.

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

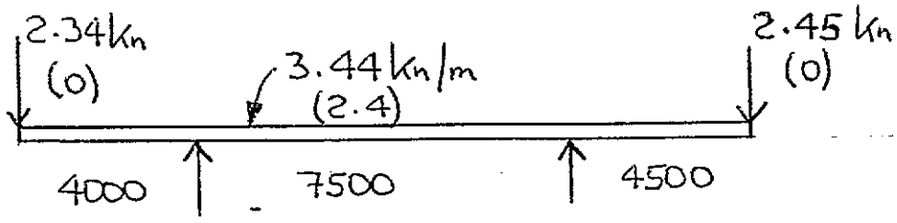
BERNARD FINNEGAN LTD.
CONSULTING ENGINEERS
5 MILLBROOK CLOSE
SALLYBROOK
GLANMIRE, CO. CORK.
TEL 021-822336
FAX 021-821776

CLIENT	S.E.L. Engineering Ltd
PROJECT	General Details.
DRG. TITLE	Grouting Detail.
DRAWN BY	B.F.
SCALE	1 : 7.5
DATE	23-10-90
DRG.NO.	/

NEWCASTLE SERVICE STATION, NEWCASTLE, CO.DUBLIN. 19-7-91.

SECTION SIZES.

Fascia.....	1100 x 3.0
Ht.to underside...	3800
Roof purlin	55062 Multibeam.
Beam 1.....	305 x 165 x 40 (Stiffs at conns)
Beam 2.....	305 x 165 x 40 (Stiffs at conns)
Beam 3.....	406 x 178 x 60 (Stiffs at conns)
Beam 4.....	IPE 200 (Stiffs at conns)
Column C1.....	300 x 200 x 8
Baseplate.....	600 x 400 x 20 standard
Column C2.....	250 x 250 x 6.3
Baseplate.....	450 x 450 x 20 standard
Foundation C1.....	3000 x 1800 x 600
Foundation C2.....	1800 x 3400 x 600, 500 centreline column to centreline of base



NEWCASTLE SERVICE STATION BEAM 1 19-7-91

ESTIMATION OF LOADS ON BEAM 1

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 2.00 x 0.45 +
3.20 x 0.45 +
0.00 x 0.00 x 0.90
= 2.34 Kn.

Point Load 2 = 2.25 x 0.45 +
3.20 x 0.45 +
0.00 x 0.90 x 0.90
= 2.45 Kn.

U.D. LOAD = 0.00 / 1.50 +
(3.20 + 0.00)x 0.95 +
0.40
= 3.44 Kn./m.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 0.00 x 0.00 x 0.75
0.00 Kn.

Point Load 2 = 0.00 x 0.00 x 0.75
0.00 Kn.

U.D. LOAD = 0.00 / 1.50 +
(3.20 + 0.00)x 0.75
= 2.40 Kn./m.

NEWCASTLE SERVICE STATION —BEAM 1 19-7-91.

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

Span 1 = 4.00 m.
Span 2 = 7.50 m.
Span 3 = 4.50 m.

Pt.Load 1	=	2.34 Kn.	(LL+DL)	0.00 Kn. (LL.)
U.D.Load	=	3.44 Kn/m.	(LL+DL)	2.40 Kn./m. (LL.)
Pt.Load 2	=	2.45 Kn.	(LL+DL)	0.00 Kn. (LL.)

TRY 305 x 165 x 40

Ixx	=	8523.00	cm^4.
Zxx	=	561.20	cm^3.
Ry	=	3.85	cm.
D/t	=	29.90	

DEFLECTION DESIGN.

Span 1			Span 2			Span 3		
d1	=	0.00	d1	=	5.52	d1	=	0.00
d2	=	4.29	d2	=	-3.86	d2	=	6.87
d3	=	4.44	d3	=	-4.89	d3	=	8.20
d4	=	3.65				d4	=	2.50

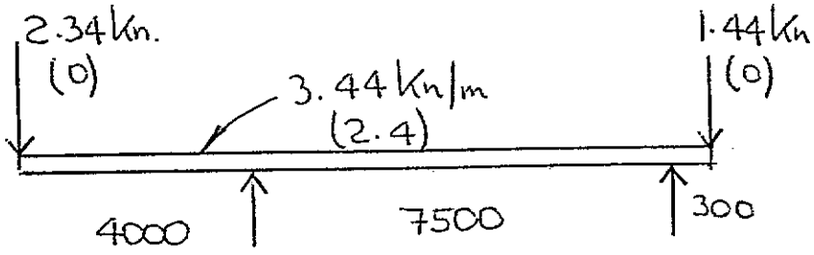
12.38	-3.23	17.57 Total Deflections
22.22	20.83	25.00 Allow. Deflections

STRENGTH DESIGN.

			Stress at holes.	Width
M1	=	36.88 Kn.m.	89.61	165.00
M2	=	24.19 Kn.m.	58.77	
M3	=	45.87 KN.m.	111.45	
Moment	=	45.86 Kn.m.	111.43	
Stress	=	81.72 N/m.m.^2		
D/t	=	29.90		
L/ry	=	160.00		
Le	=	6.16 m.	Maximum Effective Length	> 4.5 m.

REACTIONS.

Ra	=	27.80 Kn.	Rb	=	32.03 Kn.	(LL+DL)
Ra	=	17.92 Kn.	Rb	=	20.48 Kn.	(LL)



NEWCASTLE SERVICE STATION BEAM 2 19-7-91

ESTIMATION OF LOADS ON BEAM 2

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 2.00 x 0.45 +
3.20 x 0.45 +
0.00 x 0.00 x 0.90
= 2.34 Kn.

Point Load 2 = 0.00 x 0.45 +
3.20 x 0.45 +
0.00 x 0.90 x 0.90
= 1.44 Kn.

U.D. LOAD = 0.00 / 1.50 +
(3.20 + 0.00)x 0.95 +
0.40
= 3.44 Kn./m.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 0.00 x 0.00 x 0.75
0.00 Kn.

Point Load 2 = 0.00 x 0.00 x 0.75
0.00 Kn.

U.D. LOAD = 0.00 / 1.50 +
(3.20 + 0.00)x 0.75
= 2.40 Kn./m.

NEWCASTLE SERVICE STATION BEAM 2 19-7-91.

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

Span 1 = 4.00 m.
Span 2 = 7.50 m.
Span 3 = 0.30 m.

Pt.Load 1	=	2.34 Kn. (LL+DL)	0.00 Kn. (LL.)
U.D.Load	=	3.44 Kn/m.(LL+DL)	2.40 Kn./m.(LL.)
Pt.Load 2	=	1.44 Kn. (LL+DL)	0.00 Kn. (LL.)

TRY 305 x 165 x 40

Ixx	=	8523.00	cm^4.
Zxx	=	561.20	cm^3.
Ry	=	3.85	cm.
D/t	=	29.90	

DEFLECTION DESIGN.

Span 1		Span 2		Span 3	
d1 =	0.00	d1 =	5.52	d1 =	0.00
d2 =	4.29	d2 =	-3.86	d2 =	0.00
d3 =	4.44	d3 =	-0.02	d3 =	-0.47
d4 =	-3.11			d4 =	0.17

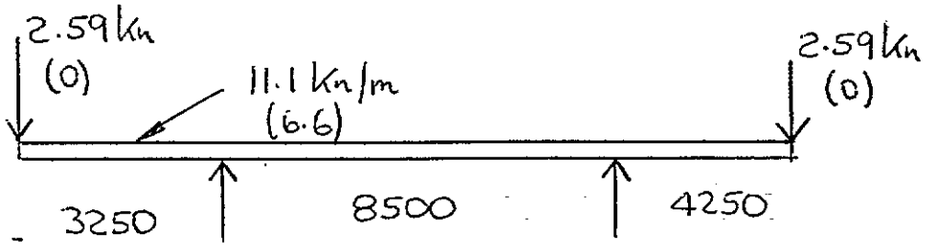
5.62	1.64	-0.30 Total Deflections
22.22	20.83	1.67 Allow. Deflections

STRENGTH DESIGN.

			Stress at holes.	Width
M1	=	36.88 Kn.m.	89.61	165.00
M2	=	24.19 Kn.m.	58.77	
M3	=	0.59 KN.m.	1.43	
Moment	=	36.88 Kn.m.	89.61	
Stress	=	65.72 N/m.m.^2		
D/t	=	29.90		
L/ry	=	200.00		
Le	=	7.70 m.	Maximum Effective Length	> 4.5 m.

REACTIONS.

Ra	=	33.84 Kn.	Rb	=	10.53 Kn. (LL+DL)
Ra	=	21.15 Kn.	Rb	=	7.17 Kn. (LL)



NEWCASTLE SERVICE STATION BEAM 3 19-7-91

ESTIMATION OF LOADS ON BEAM 3

STRENGTH DESIGN (Dead Load + Live Load)

Point Load 1 = 5.75 x 0.45 +
0.00 x 0.45 +
0.00 x 0.00 x 0.90
= 2.59 Kn.

Point Load 2 = 5.75 x 0.45 +
0.00 x 0.45 +
0.00 x 0.90 x 0.90
= 2.59 Kn.

U.D. LOAD = 33.8 / 3.20 +
(0.00 + 0.00)x 0.95 +
0.54
= 11.1 Kn./m.

DEFLECTION DESIGN (Live Load only)

Point Load 1 = 0.00 x 0.00 x 0.75
0.00 Kn.

Point Load 2 = 0.00 x 0.00 x 0.75
0.00 Kn.

U.D. LOAD = 21.2 / 3.20 +
(0.00 + 0.00)x 0.75
= 6.6 Kn./m.

NEWCASTLE SERVICE STATION BEAM 3 19-7-91.

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

Span 1 = 3.25 m.
Span 2 = 8.50 m.
Span 3 = 4.25 m.

Pt.Load 1	=	2.59 Kn.	(LL+DL)	0.00 Kn.	(LL.)
U.D.Load	=	11.10 Kn/m.	(LL+DL)	6.61 Kn./m.	(LL.)
Pt.Load 2	=	2.59 Kn.	(LL+DL)	0.00 Kn.	(LL.)

TRY 406 x 178 x 60

Ixx	=	21508.00	cm^4.
Zxx	=	1058.00	cm^3.
Ry	=	3.97	cm.
D/t	=	31.80	

DEFLECTION DESIGN.

Span 1			Span 2			Span 3		
d1	=	0.00	d1	=	9.95	d1	=	0.00
d2	=	2.04	d2	=	-3.57	d2	=	5.97
d3	=	-1.00	d3	=	-6.11	d3	=	5.30
d4	=	2.03				d4	=	-0.65

3.07	0.26	10.62 Total Deflections
18.06	23.61	23.61 Allow. Deflections

STRENGTH DESIGN.

			Stress at holes.	Width
M1	=	67.04 Kn.m.	84.18	178.00
M2	=	100.27 Kn.m.	125.89	
M3	=	111.27 KN.m.	139.70	
Moment	=	111.27 Kn.m.	139.70	
Stress	=	105.17 N/m.m.^2		
D/t	=	31.80		
L/ry	=	120.00		
Le	=	4.76 m.	Maximum Effective Length	> 3.2 m.

REACTIONS.

Ra	=	80.65 Kn.	Rb	=	102.16 Kn. (LL+DL)
Ra	=	46.65 Kn.	Rb	=	59.10 Kn. (LL)

Column Design.

Column C1

Case 1 : Dead + Super + Wind.

Load = 102.16 kn

4.8 Mx a = 1.15 x 8.5 x (.55 + 3.8 + .45)

= 47 kn.m

My = 1.15 x 8.5 x 4.8 / 2

= 24 kn.m.

Case 2 : Dead + Wind

Unblocked Load = 34 − 8.5 x 8 x 0.27

= 15.64 kn.

Mx = 47 kn.m. My = 24 kn.m.

300 x 200 x 8

Column C2

Case 1 : Load = 102.16 − 4.45 x 4.2 x .95

= 84.4 kn

Mx a = 24 kn.m

My = 0

Case 2 : Load = 43 kn − 4.45 x 4.2 x .2 (corner)

− 4.45 x 3.75 x .71 (Blocked)

− 4.25 x 4.5 x .27 (Unblocked)

= 22.2 kn

Mx a = 24 kn.m

My = 0

250 x 250 x 6.3

NEWCASTLE SERVICE STATION, COL C1 19-7-91

COLUMN DESIGN.

		CASE 1	CASE 2	
Max. Load.	=	102.61	15.64	KN.
Moment x-x (a)	=	47.00	47.00	KN.M.
Moment x-x (b)	=	0.00	0.00	KN.M.
Moment y-y	=	24.00	24.00	KN.M.
Height	=	4.25	4.25	M.
Eff. Length x-x	=	8.50	8.50	M.
Eff. Length y-y	=	8.50	8.50	M.
Canopy Width.	=	0.00	0.00	M.

TRY 300 X 200 X 8 R.H.S

A	=	77.10	cm^2
Z x-x	=	653.00	cm^3
Z y-y	=	522.00	cm^3
I x-x	=	9798.00	cm^4
I y-y	=	5219.00	cm^4
ry	=	8.23	cm.
D/t	=		

Lateral Defl. x-x	=	13.75	13.75	m.m.
Allow Defl. x-x	=	23.60	23.60	m.m.
Lateral Defl. y-y	=	13.18	13.18	m.m.
Allow Defl, y-y	=	23.60	23.60	m.m.
Edge Defl.	=	0.00	0.00	m.m.
Allow. Edge Defl.	=	0.00	0.00	m.m.

STRENGTH DESIGN.

Compression.

Leff./ry	=	103.28	103.28	
Pc	=	74.01	74.01	N./m.m.^2
Ax.Str.	=	13.31	2.03	N./m.m.^2

Bending.

Leff./ry	=	51.64	51.64	
D/t	=	0.00	0.00	
Pcb.	=	165.00	165.00	N./m.m.^2
Bend.Str.	=	71.98	71.98	N./m.m.^2

COEFFICIENT = 0.62 0.46 < 1.0

==========

NEWCASTLE SERVICE STATION, COL C2 19-7-91

COLUMN DESIGN.

		CASE 1	CASE 2	
Max. Load.	=	84.40	22.20	KN.
Moment x-x (a)	=	24.00	24.00	KN.M.
Moment x-x (b)	=	0.00	0.00	KN.M.
Moment y-y	=	0.00	0.00	KN.M.
Height	=	4.25	4.25	M.
Eff. Length x-x	=	8.50	8.50	M.
Eff. Length y-y	=	8.50	8.50	M.
Canopy Width.	=	0.00	0.00	M.

TRY 250 X 250 X 6.3 R.H.S.

A	=	61.20	cm^2
Z x-x	=	484.00	cm^3
Z y-y	=	484.00	cm^3
I x-x	=	6049.00	cm^4
I y-y	=	6049.00	cm^4
ry	=	9.94	cm.
D/t	=		

Lateral Defl. x-x	=	11.38	11.38	m.m.
Allow Defl. x-x	=	23.60	23.60	m.m.
Lateral Defl. y-y	=	0.00	0.00	m.m.
Allow Defl, y-y	=	23.60	23.60	m.m.
Edge Defl.	=	0.00	0.00	m.m.
Allow. Edge Defl.	=	0.00	0.00	m.m.

STRENGTH DESIGN.

Compression.

Leff./ry	=	85.51	85.51	
Pc	=	94.80	94.80	N./m.m.^2
Ax.Str.	=	13.79	3.63	N./m.m.^2

Bending.

Leff./ry	=	42.76	42.76	
D/t	=	0.00	0.00	
Pcb.	=	165.00	165.00	N./m.m.^2
Bend.Str.	=	49.59	49.59	N./m.m.^2

COEFFICIENT	=	0.45	0.34	< 1.0

NEWCASTLE SERVICE STATION COL C1 19-7-91.

BASEPLATE DESIGN RECTANGULAR COLUMN

DIMENSIONS.

	LENGTH	WIDTH	THICK
COLUMN :	300	200	--
BASEPL :	600	400	20
H.D. BOLTS :	3	2	24
STIFFS :	2	150	12

LOADING.

	CASE 1 x-x	CASE 1 y-y	CASE 2 x-x	CASE 2 y-y	
LOAD :	104.6	104.6	17.6	17.6	Kn.
MOMENT :	47.0	24.0	47.0	24.0	Kn.m.

RESULTANT FORCES / STRESSES.

	ACTUAL				ALLOWABLE	
Depth to Neutral Axis.(D)..	173.8	110.6	173.8	110.6	---	m.m.
Compressive Force.....(C)..	148.7	126.8	104.5	85.1	---	Kn.
Tensile Force.....(T)..	44.0	22.1	86.8	67.5	---	Kn.
Stress in grout under BSPL.	4.3	3.8	3.0	2.6	6.5	N./mm2
BSPL bend. stress at column	---	163.0	---	109.4	206.0	N./mm2
Stiff. bending stress.....	152.3	---	107.0	---	206.0	N./mm2
Actual H.D.Tension.....	14.7	11.1	28.9	33.7	---	Kn.
Required H.D.Tension.....	20.6	15.5	40.5	47.2	57.4	Kn.
BSPL bend. st. at H.D.bolt.	72.3	54.5	142.6	166.1	206.0	N./mm2
Stiff. bending stress.....	48.9	24.6	96.5	74.9	206.0	N./mm2

Foundation Design

Rere Found.

Case 1 : Dead Load + Super load + Wind x-x

Load = 86.4 kn.

Mx = 86.4 x .5 = 43.2 kn m. (Mwind = 0)

My = 0

Case 2 : Dead + wind x-x

Load = 24.2 kn.

Mx = 12.1 kn.m. (Mwind = 0)

My = 0

Case 3 : Dead + Super + Wind yy

Load = 86.4 kn.

Mx = 43.2 kn.m. } at same time.

My = 24 x 1.13 = 27.12 kn.m. }

Case 4 : Dead + wind yy

Load = 24.2 kn

Mx = 12.1 kn.m } do. less than Case 3.

My = 27.12 kn.m. }

Beam 4

Loads on B4 are 2m of sheeting only. Span = 3200 continuous. Use IPE 200. Full bolted connection to B1 + B2 to ensure stability of B1 and B2.

NEWCASTLE SERVICE STATION, COL C1 19-7-91.

FOUNDATION DESIGN

		CASE 1	CASE 2	CASE 3		
Max. Load	=	104.61	17.64	0.00	KN.	
Moment X-X	=	53.58	53.58	0.00	KN.M.	
Moment Y-Y	=	27.36	27.36	0.00	KN.M.	
Base Length	=	3.00	3.00	3.00	M.	
Base Width	=	1.80	1.80	1.80	M.	
Base Thickness	=	0.60	0.60	0.60	M.	
Base Area	=	5.40	5.40	5.40	M^2.	
Base Z x-x	=	2.70	2.70	2.70	M^3.	
Base Z y-y	=	1.62	1.62	1.62	M^3.	
STRESSES UNDER BASE :						
Super Load	=	19.37	3.27	0.00	KN./M^2.	
Soil	=	7.20	7.20	7.20	KN./M^2.	
Base	=	14.40	14.40	14.40	KN./M^2	
Wind x-x	=	19.84	19.84	0.00	KN./M^2.	
Wind y-y	=	16.89	16.89	0.00	KN./M^2.	
MAX. STRESSES :						
Wind x-x	=	60.82	44.71	21.60	KN./M^2	< 100
Wind y-y	=	57.86	41.76	21.60	KN./M^2	< 100
MIN. STRESSES :						
Wind x-x	=	21.13	5.02	21.60	KN./M^2	> 0
Wind y-y	=	24.08	7.98	21.60	KN./M^2	> 0
FACTOR OF SAFETY :						
O.T.M. x-x	=	53.58	53.58	0.00	KN.M.	
R.M. x-x	=	174.96	174.96	174.96	KN.M.	
F.O.S. x-x	=	3.27	3.27	ERR		> 1.5
O.T.M. y-y	=	27.36	27.36	0.00	KN.M.	
R.M. y-y	=	104.98	104.98	104.98	KN.M.	
F.O.S. y-y	=	3.84	3.84	ERR		> 1.5

FOUNDATION REINFORCEMENT

Presure under foundation	=	61.00	kn./m^2. (nett)
	=	97.60	kn./m^2. (gross)
Moment	=	109.80	kn.m.
M/bd^2fcu	=	0.012	
z	=	523	m.m.
Ast	=	525	m.m.^2 / m.
Minimum percentage	=	.13% = 715	m.m.^2 / m.
Actual...T16 @ 200 c/c	=	1010	m.m.^2 / m...Provided.

NEWCASTLE SERVICE STATION, COL C2 19-7-91.

FOUNDATION DESIGN

		CASE 1	CASE 2	CASE 3		
Max. Load	=	86.40	24.20	86.40	KN.	
Moment X-X	=	43.20	12.10	43.20	KN.M.	
Moment Y-Y	=	1.00	1.00	27.13	KN.M.	
Base Length	=	1.80	1.80	1.80	M.	
Base Width	=	3.40	3.40	3.40	M.	
Base Thickness	=	0.60	0.60	0.60	M.	
Base Area	=	6.12	6.12	6.12	M^2.	
Base Z x-x	=	1.84	1.84	1.84	M^3.	
Base Z y-y	=	3.47	3.47	3.47	M^3.	
STRESSES UNDER BASE :						
Super Load	=	14.12	3.95	14.12	KN./M^2.	
Soil	=	7.20	7.20	7.20	KN./M^2.	
Base	=	14.40	14.40	14.40	KN./M^2	
Wind x-x	=	23.53	6.59	23.53	KN./M^2.	
Wind y-y	=	0.29	0.29	7.82	KN./M^2.	
MAX. STRESSES :						
Wind x-x	=	59.54	32.43	67.07	KN./M^2	< 100
Wind y-y	=	59.54	32.43	67.07	KN./M^2	< 100
MIN. STRESSES :						
Wind x-x	=	11.90	18.68	4.37	KN./M^2	> 0
Wind y-y	=	11.90	18.68	4.37	KN./M^2	> 0
FACTOR OF SAFETY :						
O.T.M. x-x	=	43.20	12.10	43.20	KN.M.	
R.M. x-x	=	118.97	118.97	118.97	KN.M.	
F.O.S. x-x	=	2.75	9.83	2.75		> 1.5
O.T.M. y-y	=	1.00	1.00	27.13	KN.M.	
R.M. y-y	=	224.73	224.73	224.73	KN.M.	
F.O.S. y-y	=	224.73	224.73	8.28		> 1.5

FOUNDATION REINFORCEMENT

Presure under foundation	=	67.00 kn./m^2. (nett)
	=	107.20 kn./m^2. (gross)
Moment	=	43.42 kn.m.
M/bd^2fcu	=	0.005
z	=	523 m.m.
Ast	=	208 m.m.^2 / m.
Minimum percentage	=	.13% = 715 m.m.^2 / m.
Actual...T16 @ 200 c/c	=	1010 m.m.^2 / m...Provided.

SPECIFICATION

FOR

PIPEWORK AND PUMP INSTALLATION

AT

Newcastle

SERVICE STATION

SCOPE OF WORK:

The pipework contractor will include for the supply, delivery, installation, testing and handing over of the pipework requirements complete as hereafter described.

The extent of the pipework will include the supply and installation of all elements of the system except:

- supply and installation of underground and overground tanks.
- supply of all pumps but installation must be allowed for.
- supply and installation of any self service equipment included.
- supply and installation of any remote gauging facilities included.

The contractor shall be entirely responsible for the correct determination of all quantities.

The quality of the work will be of the highest order complying with all the accepted standards, industry codes of practice and Irish Statutory requirements especially Dangerous Substances Act, S.I. 311 1979. Only skilled personnel shall be employed.

MATERIALS SPECIFICATION

PETROL INSTALLATION

Tank Lids:	All tank lids to be checked for gaskets and gaskets greased before replacing.
Dip Pipes:	4" Aluminium alloy to within 2" of tank bottom.
Fill Pipes: (Inside Tank)	4" Aluminium alloy to within 2" of tank bottom with Deflector plates.
Offset Fills:	2½" galvanised lines, provided with lockable filler caps and tank number identification tags.
Syphons:	To be installed completely level, and where necessary to be provided with temporary supports.
Suction Lines:	1½" galvanised lines fitted with water deflector to within 4" of bottom i.e. 2" above bottom of fill line to maintain a liquid seal.
Foot Valves:	By Eska, O.P.W.
Check Valves:	By Risbridgers, O.P.W.
Vent Lines:	1½" galvanised lines laid to a constant fall back to tank with flame arrestors at terminations.
Unions:	All connections leaving tank manhole chambers to be installe with union provisions.

(All pipe to be heavy duty red band galvanised to British Standard 1387/1967)

At Pumps:	Suction pipe to pump is to rise vertically under pump and to be fitted with 2 No. elbow bends to give horizontal and vertical play. After riser, connection to pump is to be by means of a flexible connection.

DIESEL INSTALLATION

Diesel Tank: To be fitted out with:

- 2½" fill line, to be carried to filler point as set out on drawings, and fitted with a lockable cap.
- a lockable dipping provision.
- weatherproof venting provision.

Diesel Pump: Connect diesel tank to diesel pump by means of 1½" black pipe. This shall be fitted with a standard filter, gate valve, spring loaded brass angle check valve. He shall also bring a 1/4" diameter copper pipe from the pump to the tank and this shall be securely clipped to the supply line and connected back into the top of the tank.

(All pipe to be heavy duty red band black iron pipe)

AIRLINES: From compressor a ½" heavy duty red band seamless galvanised pipe shall be brought underground to each air point position as shown on drawings. Fit quick release coupling to air points and secure upstands to wall or poles where required.

FITTINGS: (Galvanised for Petrol, Black for Gas Oil)

All fitting to be:

- Heavy duty and properly screwed for a distance of normally 1½" minimum and jointed with "stag" jointing compound.
- Manufactured by "Crane" to British Standard Piping Specifications. All valves to be manufactured by "Crane" for use on petroleum pipelines.
- Within the tank manhole, all joints on straight lengths of pipe are to be connected by Unions with brass centres (except in the case of married tanks - ~~see note~~).
- Where sockets are used, all are to be of tapered type with approximately 1½" of thread screwed to each pipe. Pipe are to be threaded to proper standard of taper to match the socket taper.
- Where new suction lines are to be taken off existing tank manlids and where a suitable threaded socket in the cover is available, brass bushings are generally to be used, screwe into lid and taking internal suction.
- Where two tanks or compartments are "married" and where the lines join in a tee junction, two unions and a running screw are to be used to make the joint.
- Vent = O.P. . Fig. 23 vent cap

GENERAL REQUIREMENTS

PRELIMINARY WORK: The contractor shall mark all holes, chases, duct runs etc., which may be necessary for the proper installation of the work, so that these may be made by the main contractor, but the contractor will be responsible for the accuracy of the marking out.

LIAISON & SCHEDULE: The contractor will liaise with other contractors as necessary to ensure a continuity of work and no unnecessary delays. He shall give minimum notice of 1 day to main contractor where his attendance is required.

He will schedule the work in such manner as to allow for temporary connections as required:

- to keep some or all of the existing pumps (if any) in operation during the course of the work.
- to allow for the erection of pumps and disconnection and removal of old pumps (if any) as appropriate.
- to accommodate main contractor's programme requirements as far as possible.

He will include in his tender for the above and no extra will be paid for claims due to such items, as might reasonably be foreseen by a competent and experienced contractor.

TESTS: The contractor shall make or cause to be made a complete test of the installation and all its components on completior of the work, and hand it over to the complete satisfaction of Texaco (Ireland) Limited with any certificates as may be required.

MAINTAINENCE PERIOD: The contractors attention is drawn to the maintainence period of 6 months which shall apply, during which time an agreed retention sum may be held by Texaco (Ireland) Limited.

INSURANCES: The contractor shall provide statutory insurance required. He shall also indemnify himself, Texaco (Ireland) Limited and the main contractor against any third party claims which may arise against him, Texaco (Ireland) Limited or the main contractor, for which he is to be held responsible. He shall also indemnify himself against and claim arising from Texaco (Ireland) Limited or the main contractor which may arise against him, for which he is to be held responsible.

TERMS & CONDITIONS OF CONTRACT: All terms and conditions in Texaco standard conditions of contract will apply.

SPECIFICATION

FOR

ELECTRICAL WORKS

AT

Newcastle

SERVICE STATION

SCOPE OF WORK:

The electrical contractor will include for the supply, delivery, erection, testing and handing over of the electrical installation complete as hereafter described.

He shall be familiar with the classification of hazardous areas in the Petroleum Industry and shall at all times comply with the requirements for electrical installation work in each of these areas.

He shall liaise with Texaco (Ireland) Limited to arrange a supply from E.S.B. where required, and shall obtain all forms, certificates etc., for completion by Texaco (Ireland) Limited who will pay all connection charges. Where a temporary supply is required, pending completion of building works, he shall arrange same in like manner.

The extent of the electrical contractors work will include the supply and installation of all elements of the system except:

- Canopy underlights by canopy contractor.
- Canopy carcasse wiring by canopy contractor.
- Canopy illuminated fascia by sign manufacturer.
- Texaco pole mounted sign by sign manufacturer.
- Texaco wall mounted sign by sign manufacturer.
- Forecourt loudspeakers by pump supplier.
- Forecourt pump control equipment by pump supplier.
- Automatic car washing machine control equipment by wash supplier.

However mains supply cable are required to be brought to all of the above items as specified.

The contractor shall be entirely responsible for the correct determination of all quantities.

The quality of the electrical contractors work will be of the highest order complying with all the accepted standards, industry codes of practice and Irish Statutory requirements especially Dangerous Substances Act, S.I. 311 1979. Only skilled personnel shall be employed.

GENERAL REQUIREMENTS

PRELIMINARY WORK:

The contractor shall mark all holes, chases, duct runs etc., which may be necessary for the proper installation of the work, so that these may be made by the main contractor, but the contractor will be responsible for the accuracy of the marking out.

LIAISON & SCHEDULE:

The contractor will liaise with other contractors as necessary to ensure a continuity of work and no unnecessary delays. He shall give minimum notice of 1 day to main contractor where his attendance is required.

He will schedule the work in such manner as to allow for temporary connections as required:

- to keep some or all of the existing pumps (if any) in operation during the course of the work.
- to allow for the erection of pumps and disconnection and removal of old pumps (if any) as appropriate.
- to accommodate main contractor's programme requirements as far as possible.

He will include in his tender for the above and no extra will be paid for claims due to such items, as might reasonably be foreseen by a competent and experienced contractor.

TESTS:

The contractor shall make or cause to be made a complete test of the installation and all its components on completion of the work, and hand it over to the complete satisfaction of Texaco (Ireland) Limited with any certificates as may be required.

MAINTAINENCE PERIOD:

The contractors attention is drawn to the maintainence period of 6 months which shall apply, during which time an agreed retention sum may be held by Texaco (Ireland) Limited.

INSURANCES:

The contractor shall provide statutory insurance required. He shall also indemnify himself, Texaco (Ireland) Limited and the main contractor against any third party claims which may arise against him, Texaco (Ireland) Limited or the main contractor, for which he is to be held responsible. He shall also indemnify himself against and claim arising from Texaco (Ireland) Limited or the main contractor which may arise against him, for which he is to be held responsible.

TERMS & CONDITIONS OF CONTRACT:

All terms and conditions in Texaco standard conditions of contract will apply.

MATERIALS SPECIFICATION

DISTRIBUTION BOARD: Bring incoming cables to main distribution board location (by ESB). Fit out distribution board with mains switches, bus bar, and fuse boards all by Ottermill, Relka, Allen West or Scanaleek, Bill Slade, or Invicta as appropriate.

LABELS: The Contractor shall provide suitable indelible labels on his main distribution board to indicate clearly the duty of each item of equipment.

EARTHING: All main isolators shall be bonded together and earth to the bus bar and to a copper 8' earth rod driven fully into the ground. He shall make arrang ments with the E.S.B. for neutralising the earthing system.

CABLE RUNS: All cable runs within buildings shall be in single core PVC cables and shall be installed in solid drawn, galvanised and screwed conduit. This shall be supported at suitable centres with spacer bars, saddles etc. No conduit shall be less than ¾" diameter and all conduit shall be electrically and mechanically continuous. Where conduit is to be buried, it shall be at such a depth to give ½" plaster cover. All conduit boxes shall be of an approved type and arranged to allow easy access to the cables.

All cable runs to the forecourt lights, pumps, car wash and other items shall be in S.W.A. cable ~~or M.I.C.C. cable~~ suitably glanded on entry to their appropriate junction boxes. All forecourt cable to be as per attached schedule.

GLANDING: Only BICC - ElWF glanding should be used for connecting up pumps.

SWITCHES: All switches throughout the building shall be metal clad switches of an approved pattern and shall be located in positions as shown on the drawings. These shall be manufactured by M.K. or Crabtree. All forecourt equipment to be switched as per attached schedule.

SOCKET OUTLETS: All socket outlets shall be metal clad sockets of a approved pattern and shall be located in positions as shown on the drawings. These shall be twin 3 pin 15 amp outlets as manufactured by M.K. or Crabtree.

CANOPY LIGHTS:

All light fittings and carcasse wiring of canopy are supplied and fitted by canopy erectors. The electrical contractor shall provide main supply feeds in SWA cable of suitable current carrying capacity for the number of lighting units provided and the number of switched circuits that are to be installed. The main supplies shall be fed up the inside of an agreed stanchion (as per drawing) and connection to carcasse loops is to be made in a weatherproof metal dad junction box at the top of tl agreed stanchion.

CANOPY FASCIA:

The sign complete with cold cathode illumination, ballast transformers, H.T. control gear and Fireman. switch will be supplied and fitted by specialist contractor. The electrical contractor shall provid. a mains supply feed in SWA cable of suitable curren carrying capacity dependent of the number of lighti: units provided based on the length of the sign involved and the switching requirements. The main supplies shall be fed up the inside of the agreed stanchion to a junction box with separate tails to each of the canopy faces and left through the fascia panels for the use of the sign erectors.

PETROL PUMPS:

Manual Operation

The electrical contractor shall energise each pump for motive power and lighting as set out on the drawings. Separate live and neutral connections must be brought to each pump motor and pump light where appropriate. Each live and neutral should be switched with a double pole mini circuit breaker or, switch and suitable fuse. The outer casing of the SWA cable used should be glanded both ends so that the required earth is made.

Self Service

Where self service pumps are to be provided, additional cables are required for low voltage signals between the pump and operators console. Both high and low voltage cable must be brought bac to service module position. The service module wil be connected to the self service console control panel by the pump supplier. The main supply to the service module must be provided by the electrical contractor. This should be backed with a suitable fuse and isolation switch plus a 100A emergency sto located at the console control area.
Provide speaker supply from console position to each pump position.

WASHING MACHINES

Brush Wash	Provide a 30 amp 3 phase and earth mains supply via a 30 amp fused isolator to position of car wash mai control panel as agreed. Provide a 15 amp fused isolator and 15 amp starter with 240V coil to water pump position as agreed.
Steam Wash	Provide a 15 amp single phase and earth mains suppl to machine position. (This should be in the form o a continuous supply with night-time shutdown not possible because of frost protection heating requirements.)

EXTERNAL LIGHTS

Floodlights	Instal 250W metal Halide Disano, Ceylon, fittings supplied by Texaco ex EWL at positions shown on the drawings. Poles to be supplied by Texaco ex Dunne Bros. and erected by Builder.
Bollards	Instal 80W MBFU Disano, Morroco, fittings supplied by Texaco ex EWL at positions shown on the drawings

EXTERNAL SIGNS

Main Identifier) Flag Pole Identifier) Wall Mounted ") Credit Card Sign) Car Wash Sign)	These will be supplied and installed by Texaco appointed Sign Contractor. Cable and switch requirements to be provided as per attached schedule.

INTERNAL LIGHTS

Fluorescent Fittings	Supply and instal 5' (nominal) single or double 35mm tubed fittings each 80W rating C/W diffusers as per drawings.
Globe Fittings	Supply and instal ceiling mounted opal glass spheres with 60W lamp rating as per drawings.

HEATERS

Over-Door Unit	Supply and instal angle floor model AC3 white finished, warm air curtain heater from Dimplex range, in positions shown on drawings.
Free Standing Unit	Supply and instal Mark 2 model P100 energy controll white finished oil filled radiator from Dimplex range in positions shown on drawings.
Water Unit	Supply and instal 1 No. 2 gallon electric water heater mounted under sink in utility room location, with integral thermostat operated switch.

COMPRESSOR:	Provide a 30amp 3 phase and earth mains supply via a 30 amp fused isolator to position of Compressor, in stores as agreed.
SERVICE AREA:	
Vacuum	Provide a 15 amp single phase and earth mains supply to machine position.
Pressure Gauge	Provide a 15 amp single phase and earth mains supply to machine position.
Sign Lighting	Provide and instal 1 No. row of 5' single 35mm fluorescent tubes under lighting hood cover on sign supplied by Texaco ex Dunne Bros.
Flashers	Provide and instal 1 row of Dymond 3000 series 60 watt amber lamps with diffusers at 4' c/c's cw sequence control box ex EWL.
FLAGPOLE	
Spotlights	Provide and instal 2 no. weather-proof 150W lamp Par 38 floodlights (or similar) on Flagpole supplie by Texaco ex Dunne Bros.

SCHEDULE FOR

	CABLE	SWITCHING
Canopy Lights	1 No. 3 x 2.5mm^2 SWA supply to each circuit of max. 6 lights.	1 Switch per circuit.
Canopy Fascia	1 No. 3 x 1.5mm^2 SWA supply to each fascia.	Switch all together
Petrol Pumps		
Manual	1 No. 4 x 1.5mm^2 SWA supply to each pump.	1 No. Double po switch to each light & pump un
Self Service Blender	1 No. 3 x 1.5mm^2 SWA supply 1 No. 6 x 1.5mm^2 SWA signal transfer	Per Service Module
Self Service Duo	2 No. 3 x 1.5mm^2 SWA supplies 1 No. 6 x 1.5mm^2 SWA signal transfer	Per Service Module
Service Module	1 No. 3 x 2.5mm^2 SWA supply	100A emergency Stop Button at Console
Washing Machines		
Brush Wash (3 Phase)	1 No. 4 x 2.5mm^2 SWA supply to control panel	Via 30 amp fuse isolator
	+	
	1 No. 4 x 1.5mm^2 SWA supply from control panel to water pump	Via 15 amp fuse isolator and 15 amp starter wit 240V coil
Steam Wash	1 No. 3 x 1.5mm^2 SWA supply	Via 15 amp fused isolator
External Lights		
Floodlights	1 No. 3 x 1.5mm^2 SWA supply	All Together
Bollards	1 No. 3 x 1.5mm^2 SWA supply	All Together

	CABLE	SWITCHING
EXTERNAL LIGHTS		
Main Identifier	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
Flagpole Identifier	1 No. 3 x 1.5mm^2 SWA supply	Separate Switch
Wall Mounted Identifier	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
Credit Card Sign	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
Car Wash Sign	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
SERVICE AREA		
Sign Lighting	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
Flashers	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
Vacuum	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
Pressure Gauge	1 No. 3 x 1.5mm^2 SWA Supply	Separate Switch
ADVERTISING DISPLAY BOARDS	1 No. 3 x 1.5mm^2 SWA Supply	Switch All Together

MO'K/GEC
6.6.1985

CANOPY LIGHTING

The requirement for canopy lighting intensity is:

500 lux at 1M above finished forecourt level.

Most Texaco Ireland Canopies are in the 3.6 - 4.0 metres in height.

Lighting to be used is:

Canolux fittings
250W (Pdrry) Constant Wattage control gear and
250W MBIF Lamps

Using foregoing data it is estimated that 5 units would be required per $100M^2$ of canopy to give the required lighting intensity.

SPECIFICATION

FOR

MAIN CONTRACT BUILDING WORK

AT

Newsalk

SERVICE STATION

SITE WORKS SPECIFICATION

(A) SITE PREPARATION

(B) DRAINAGE WORKS

(C) TANK AND PUMP INSTALLATION

(D) CANOPY ERECTION

(E) CAR WASH INSTALLATION

(F) MISCELLANEOUS ITEMS

(G) GENERAL FORECOURT AND DRIVE AROUND SURFACING

(H) COBBLELOCK PAVING

(I) WORK ON EXISTING FORECOURTS

(A) SITE PREPARATION

(1) EXISTING SERVICES

The contractor should contact all the relevant statutory authorities to ascertain the existence of any underground services which cross the site and arrange for alteration of same as may be required to facilitate works on site. He shall also note overground cable runs, particularly electricity lines, and arrange for alteration of same as above, or warn all workmen particularly foreman and machine operators of their existence.

(2) TREES, BUSHES, HEDGES, ETC.

The contractor shall note which of the above are to be removed from site and which are to be retained (if any). Where such items are to be removed, the full extent of all associated root growth shall be included. Where such items are to be retained, a 1.5m high timber stake post and wire fence shall be erected around the full extent of root growth, and the ground within these areas shall be left undisturbed.

(3) SITE CLEARANCE

All unwanted buildings, outhouses, etc., are to be demolished. The end product of such works will be classified as builders rubble and will have to be removed to dumps. It will not be considered of any use in the development of the site. The contractor shall excavate a top soil and vegetable matter from the site to a minimum depth of 300mm or to grade-level, whichever is deeper. A excavated top soil shall be removed from the site to be disposed by the contractor as he thinks fit. He shall no allow any such material to accumulate.

(4) SECURITY

The contractor shall agree the boundaries of the site wit the Engineer and demarcate same in a temporary fashion with stakes and pegs etc. He shall allow for the erectio of temporary post and wire fences to protect the site as he thinks fit and as may be required to prevent unauthorised access to the site.

(5) PROVISION OF SERVICES

The contractor shall arrange for the provision of all services as may be required, or the extension of same as may be required. These are to include 25mm water supply duly metered, at point of entry, 3 phase electricity in independent duct to main distribution board location, P.& T. cable run to service building in independent duct. Storm run-off and foul sewerage are to be discharged separately, where separate local authority provisions exist. Allowance must be made for crossing foot-paths and roadways on public property to make such connections and agreements entered with the relevant authorities as to how best to effect such crossings and what arrangement are to be made for temporary and permanent reinstatement of disturbed surfaces.

(6) PROVISION OF SITE UNITS

The contractor shall erect on site temporary site huts which shall act as shelter for workmen during inclement weather, a place where meals breaks may be enjoyed and a full set of drawings and specifications with all agreed on site alterations as may be required, are safely stored for inspection and easy reference during the progress of work.

(7) PROVISION OF LATRINES

The contractor shall erect on site, temporary latrines for the use of all workmen engaged throughout the duration of the contract. He shall see that these are properly maintained and removed when no longer required and that the ground is disinfected afterwards.

(8) SETTING OUT

At the first opportunity the contractor shall establish a base line from which all setting out shall be co-ordinated. At the first opportunity, the contractor shall establish a temporary bench mark from which all levels shall be set and checked. This information shall be clearly recorded on the copies of the site drawings and the attention of the Engineer shall be drawn to same, so that he may record such facts for future reference.

B) DRAINAGE WORKS

(1) LINES

The contractor shall excavate trenches to a depth of 600mm minimum along the lines shown on the plan for all drains on the site. The bottom of the excavation shall be cut to the fall of the drain but shall be 150mm underneath the level of the bottom of the drain in every case. The bottoms of these trenches are to be backfilled in concrete after drains have been set.

(2) PIPES

All to be 100mm on 150mm diameter P.V.C., properly jointed in accordance with manufacturer's instructions.

(3) GULLY TRAPS

All to be 150mm square x 100mm standard traps set plumb and haunched in concrete.

(4) A.J.'s

All to be 300mm square x 100mm of the required configuration, set on the line of the drain and haunched in concrete. Covers and frames to be steel construction set to finished surface.

(5) ROAD GULLIES

Form 300mm x 300mm boxes on the line of drain runs as shown on the general layout drawing. Construct in 150mm cast in situ concrete surrounds and floors or use P.V.C. A.J. boxes where appropriate. Set 400mm x 400mm heavy duty cast iron hinged gulley grates and frames over.

(6) ENTRANCE/EXIT SURFACE CHANNELS

Supply and instal linear drain channel with surface gratir as shown on the general layout drawing. These are to be from the A.C.O. System (as supplied by Brooks Thomas) and to be NW 100 Class C types with 1No. end outlet to u/g drainage system.

(7) MANHOLE

These are to be 600mm square constructed in 215mm solid block work carefully pointed on the inside, built off 150mm concrete floor with half-round channels set to ensure smooth flow and properly haunched around in sand and cement. All covers and frames to be steel constructic as manufactured by Whessoe (Ireland) Ltd., for use on service station forecourts. These are to be supplied by Texaco.

(8) MUD TRAP

This is to be constructed to dimensions shown on Drawing 2478 in 215mm solid block work, plastered on the inside with sand and cement. Set concrete floor to 300mm fall as shown. Provide 4No. 914mm long x 450mm galvanised steel grills, fabricated in 50mm deep by 6mm thick sectior set at 25mm centres. Set these grills in 63mm x 63mm x 6r angle frame (O/A 1850mm x 925mm inside dimensions).

(9) INTERCEPTOR TRAP

This is to be a 3 chamber 2000 Litre (approx.) precast plastic unit ~~as manufactured by Conder and supplied by Texaco.~~ It is to be set on the line of the drain and encased in 150mm concrete surround. Cover each chamber with 600mm square steel manhole covers and frames as manufacturered by Whessoe (Ireland) Ltd., ~~and supplied by Texaco.~~ Set in 225mm reinforced concrete roof slab. All for venting and associated trench runs to agreed vent upstand position. Vents will be installed by pipefitter. Allow for attending on same.

(10) TESTS – The complete system shall be cleared of waste materials and rodded through on completion.

DETAILS of PROPOSED PETROL/OIL INTERCEPTOR TRAPS

Installation

Excavate allowing for 150mm of concrete around the Interceptor.

Construct 150mm thick concrete base, at the correct level below invert. When this concrete has sufficiently set, lower the Interceptor into position and connect up inlet and outlet drains. Fill the complete tank with water through the first chamber to outlet level.

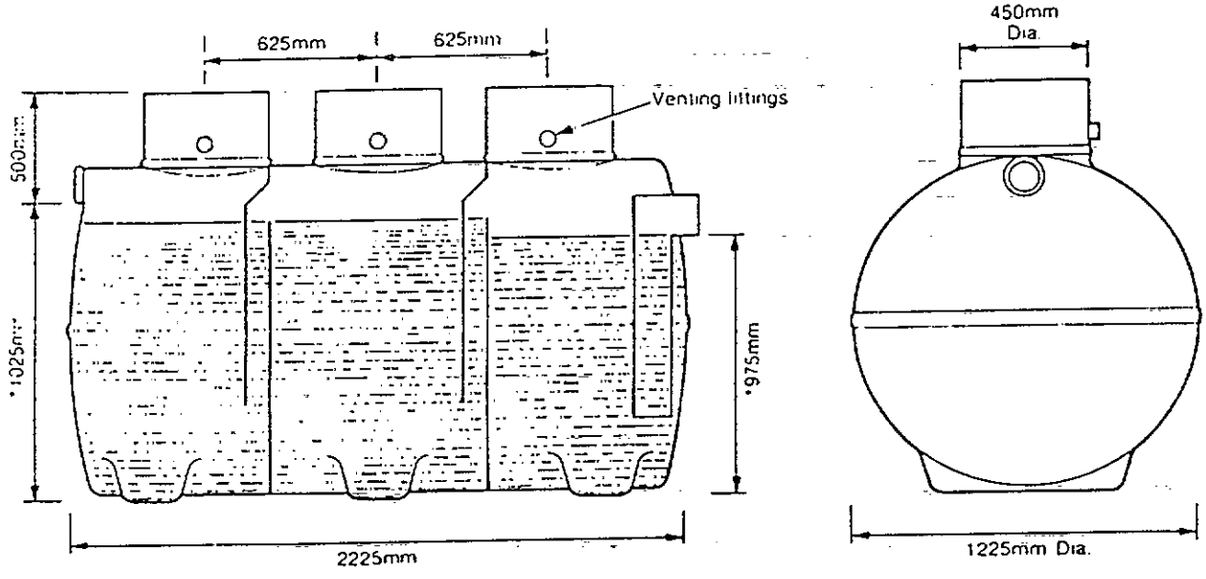
Place concrete back-fill to just below outlet level ensuring proper consolidation, particularly on the underside of the tank.

Connect up venting pipework and continue placing concrete to ground level incorporating inspection covers and frames of the correct duty in the normal manner.

Where the Interceptor is likely to take vehicle wheel loadings the concrete slab should be reinforced to the necessary specification.

The vent pipes must be taken away independently and may only be joined above ground level.

Dimensions 2000 litre



The tank comes as standard with 110mm inlet and 160mm outlet UPVC fittings. Other sizes can be fitted at extra cost but it should be noted that the dimensions as indicated * will alter as a result.

Maintenance.

The Interceptor should be inspected at regular intervals or immediately after a spillage accident for both sedimentary and flotation contaminants, and emptied as necessary.

C) TANK AND PUMP INSTALLATION

(1) U/G TANK LEVELS — Underground tanks provided by Texaco are to be installed at least 650mm below finished ground level. Care to be taken with checking that a rise of 1 in 5o exists from u/g tank positions to proposed pump positions, and such tanks to be installed deeper than 650mm if required.

(2) U/G TANK PITS — These are to be excavated to depths as required to accommodate the specified cover and rises to pumps allowir for 150mm deep concrete floors. Where workmen are required to clean the bottoms of such excavations, or to place concrete for pit floors, adequate safety precautions are to be taken i.e. each man must wear a harness and line and a man must provide watch from on top or the pit sides must be supported by suitable sheeting, wailing, struting and propping.

(3) CONTINGENCY — Where ground conditions are poor requiring sheet piling or excess water is encountered requiring pumping, these facts should be drawn to the attention of the Engineer and approval obtained for the measures required. Such provisions will be considered extra works and separate orders will be issued to cover same.

(4) U/G TANK PLACING — Set 150mm concrete floors. Bed tank on 75mm sand. Allow for cranage for placing tanks which may be up to 3½ tons in weight. Prop tanks in position after levelling and fi tanks with water.

(5) U/G TANK TESTS — Allow pipefitter to carry out statutory hydrostatic pressure test.

(6) U/G TANK SURROUNDS — Place lean mix concrete around the sides and ends of the tank up to neck level so as to totally encase the tank with at least 150mm thickness.

(7) U/G TANK FITTINGS — Allow pipefitter to fit out the tanks with fill lines, suction lines, vents, etc. Note that suction lines to pump positions must avoid canopy stanchion bases.

(8) MANHOLES — Build manholes, around all tank lids, so as to incorporat all unions on pipes leaving the manlids, in 225mm solid construction. Close tops to accommodate 600mm x 750mm manhole cover and frame supplied by Texaco. Provide duct runs to connect each manhole to remote gauge position. Build manhole around filler points in 225mm solid construction with 600mm x 750mm manhole cover and frame. Clean mortar droppings out of all manholes so that tank chamber manlids in particular, are exposed.

(9) ROOF SLAB — Back fill around tank manholes etc., in 50mm crushed run stone, laid in 150mm layers. This stone shall be of approved quality and grading. The method of placing shal be such as to reduce to a minimum the amount of segregati This filling shall be compacted by not less than 4 passes of 5 ton hand operated vibrating roller to finish 250mm below finished level. Set 250mm deep reinforced concrete roof slab over the entire extent of all underground tanks withbrushed finish and trowelled edges. Note this slab i to be drained as shown on drawings.

CANOPY ERECTION

(1) SETTING OUT

Set out canopy bases with due attention to accuracy of position and level. Excavate for same to approx. 1.5m long x 1.5m wide x 500mm deep.

(2) SETTING BASES

Set mesh reinforcing and holding down bolts, supplied by Texaco, slung from templates which have been set out using a steel tape and levelled to that of the lowest base position. The holding down bolts are to be provided with tolerance, by fixing in 75mm diameter PVC tubin before pouring concrete base. Note refer to Engineer for copies of canopy suppliers' foundation details and follow these strictly when installing canopy bases.

(3) SERVICES PROVISIONS

Allow for drainage and electrics duct provisions to agreed stanchion positions.

(4) UNDER CANOPY PUMP APRON

Place 50mm crushed stone laid in 150mm layers to within 320mm of finished level of pump islan apron. The method of filling shall be such as to reduce to a minimum the amount of segregatic This filling shall be compacted by not less tha 4 passes of a 5 ton hand operated vibrator roller. Set 200mm deep reinforced concrete slabs to surround pumps by 4.25m. Seal all joints with pitch tar. Ensure falls to drains. Cobblelock to be laid on 50mm sand laying cours on concrete apron.
The concrete block paving shall be subjected to enough passes of a steel faced vibrating plate compactor to produce an even block surfac A surcharge of up to 15mm sand in the laying course may be required to leave the required 50mm depth of this course after paving block vibration.

Paving blocks shall not be less than 80mm thick and manufactured in accordance with the specification for precast concrete paving blocks (publication 97.302) published by Cement and Concrete Association.

Blocks to be light grey in colour and laid in a herring-bone pattern.

(5) PROGRAMMING FOR CANOPY ERECTION

Every effort is to be made to lay pump island apron slabs before canopy erection crew are due to arrive on site and allow at least 7 days for curing etc. Clean an area adjacent to canopy location for stacking of delivered canopy steelwork and sheeting. Attend on canop erection crew as required and top out canopy stanchion bases on completion.

(D) CANOPY ERECTION

(1) SETTING OUT

Set out canopy bases with due attention to accuracy of position and level. Excavate for same to approx. 3.0m long x 1-75m wide x 1-2 m deep.

(2) SETTING BASES

See Attached Detail

Set mesh reinforcing ~~on bottom~~ and holding down bolts, supplied by Texaco, slung from templates which have been set out using a steel tape and levelled to that of the lowest base position. The holding down bolts are to be provided with tolerance, by fixing in 75mm diameter P.V.C. tubing before pouring concrete base. Note refer to Engineer for copies of canopy suppliers' foundation detail and follow these strictly when installing canopy bases.

(3) SERVICES PROVISIONS

Allow for drainage and electrics duct provisions to agree stanchion positions.

(4) UNDER CANOPY PUMP APRON

Place 50mm crushed stone laid in 150mm layers to within 200mm of finished level of pump island apron. The method of filling shall be such as to reduce to a minimum the amount of segregation. This filling shall be compacted by not less than 4 passes of a 5 ton hand operated vibrator roller. Set 200mm deep reinforced concrete slabs to surround pumps by 4.25m or to coincide with canopy cover, whichever is greater. Limit slab sizes to 25.0m^2 and allow for 2No. expansion joints running the length and breadth of the whole area. Seal all joints with pitch tar. Ensure falls to drains. Brushfinish front to rere, with steel trowelled edges.

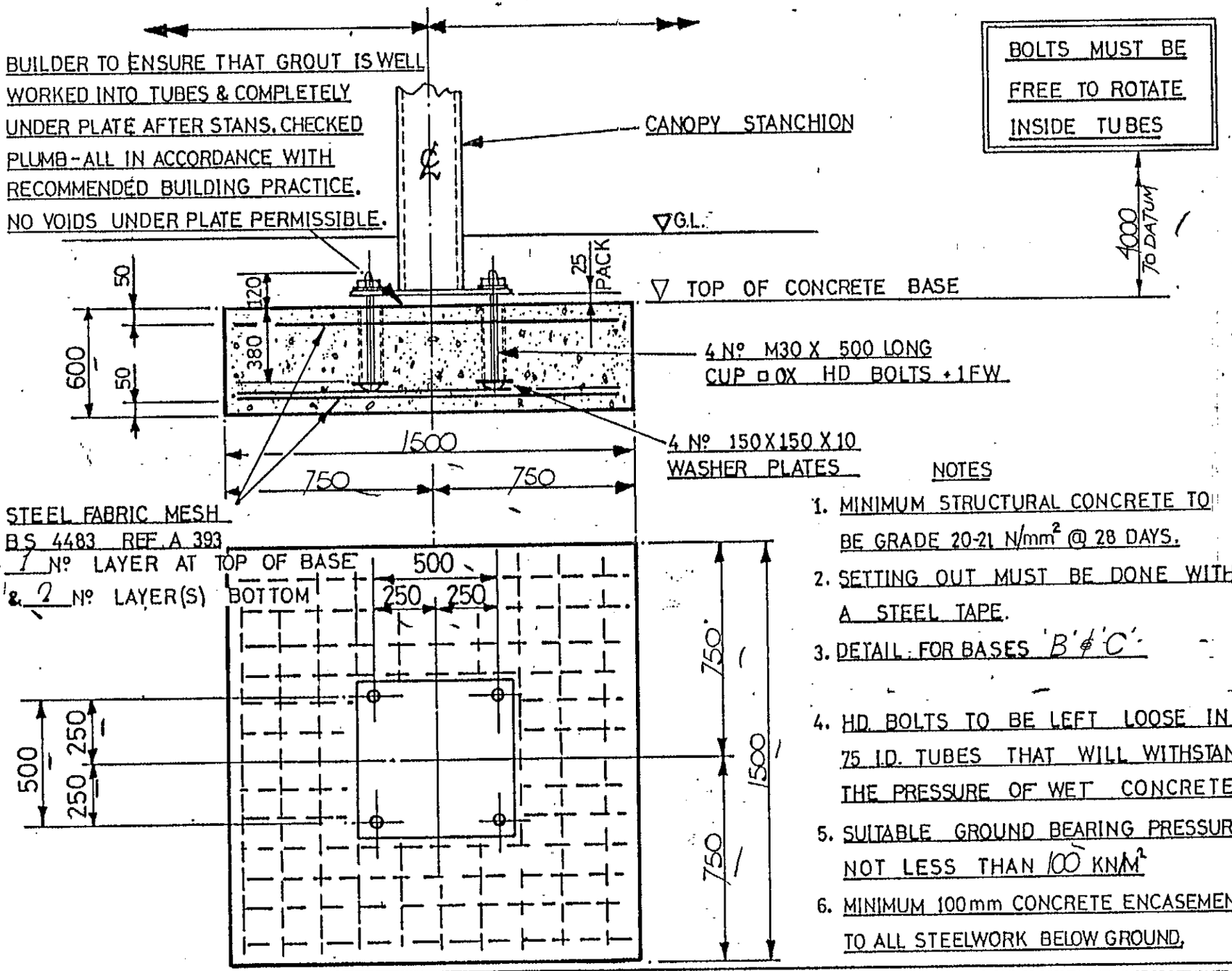
(5) PROGRAMMING FOR CANOPY ERECTION

Every effort is to be made to lay pump island apron slabs before canopy erection crew are due to arrive on site and allow at least 7 days for curing etc. Clear an area adjacent to canopy location for stacking of delivered canopy steelwork and sheeting. Attend on canopy erection crew as required and top out canopy stanchion bases on completion.

DO NOT SCALE — 3rd ANGLE PROJECTION — ALL METRIC DIMENSIONS IN MILLIMETRES

BUILDER TO ENSURE THAT GROUT IS WELL WORKED INTO TUBES & COMPLETELY UNDER PLATE AFTER STANS. CHECKED PLUMB - ALL IN ACCORDANCE WITH RECOMMENDED BUILDING PRACTICE. NO VOIDS UNDER PLATE PERMISSIBLE.

BOLTS MUST BE FREE TO ROTATE INSIDE TUBES



NOTES

1. MINIMUM STRUCTURAL CONCRETE TO BE GRADE 20-21 N/mm² @ 28 DAYS.
2. SETTING OUT MUST BE DONE WITH A STEEL TAPE.
3. DETAIL FOR BASES 'B' & 'C'
4. HD. BOLTS TO BE LEFT LOOSE IN 75 I.D. TUBES THAT WILL WITHSTAND THE PRESSURE OF WET CONCRETE.
5. SUITABLE GROUND BEARING PRESSURE NOT LESS THAN 100 KN/M²
6. MINIMUM 100 mm CONCRETE ENCASEMENT TO ALL STEELWORK BELOW GROUND.

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REVISION

CONDEF

FINISH

UNLESS NOTED ALL HOLES DIA. FOR FABRICATION TOLERANCES SEE DATA SHEET No. MIOP.1

ALL WELD SYMBOLS TO B.S. 499. WELD SIZE DENOTES LEG LENGTH.

DRAWN	
DATE ©	
SCALE	N.T.S.
CHKD	

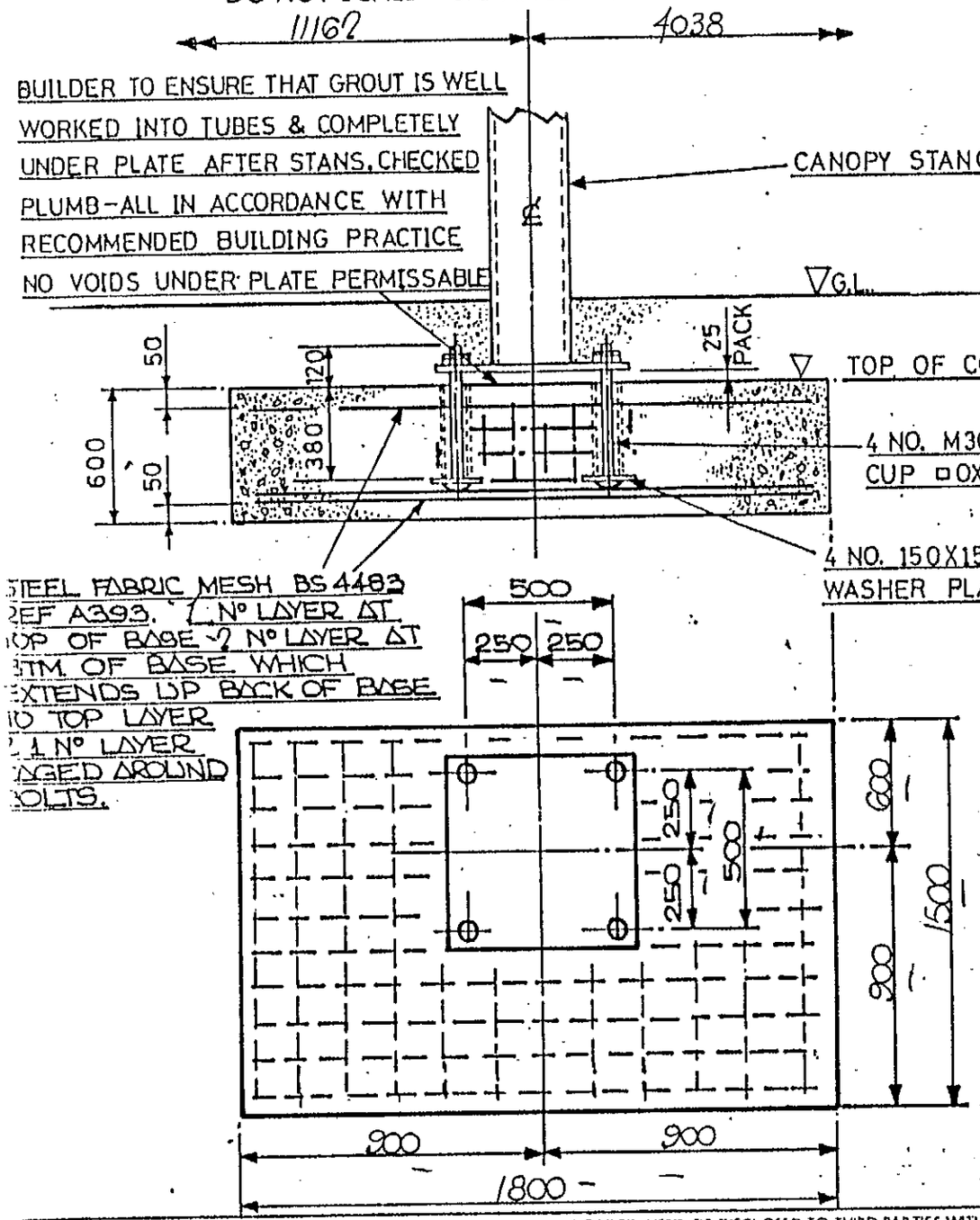
TITLE BOLTED BASE DETAIL

CONTRACT SPAWELL F. STATION

CONTRACT No.	DRG. N
6550	3

REV.

DO NOT SCALE — 3rd ANGLE PROJECTION — ALL METRIC DIMENSIONS IN MILLIMETRES



NOTES

1. MINIMUM STRUCTURAL CONCRETE TO BE GRADE 20-21 N/mm² @ 28 DAYS.
2. SETTING OUT MUST BE DONE WITH A STEEL TAPE.
3. DETAIL FOR BASE 'A'
4. HD BOLTS TO BE LEFT LOOSE IN 75 I.D. TUBES THAT WILL WITHSTAND THE PRESSURE OF WET CONCRETE.
5. SUITABLE GROUND BEARING PRESSURE NOT LESS THAN 100 KN/M²
6. MINIMUMUM 100 mm CONCRETE ENCASEMENT TO ALL STEELWORK BELOW GROUND.

LIBRARY No. H10 A14

DATE | INITIAL

MOD | °C

REVISION

CONDER

FINISH

UNLESS NOTED ALL HOLES DIA. FOR FABRICATION TOLERANCES SEE DATA SHEET No MIOP/1.

ALL WELD SYMBOLS TO B.S. 499. WELD SIZE DENOTES LEG LENGTH.

DRAWN	
DATE (C)	
SCALE	N.T.S.
CHKD	

TITLE BOLTED BASE DETAIL

CONTRACT SPAWELL – F. STATION

CONTRACT No.	DRG. No.
6557	2.

REV.

5/73

(E) CAR WASH INSTALLATION

(1) MUDTRAP

Provide mud-trap as set out on Drawing

(2) INTERCEPTOR TRAP

Connect to interceptor trap provided as set out on specification

(3) CAR WASH PAD

Provide car wash pad generally to dimensions shown on Drawing No.2478 in reinforced concrete, on hardcore base. Set 2No. flat strips to accommodate track rails. Set outsides and insides to dish run-off back into the mudtrap Allow a 200mm wide ½ round channel down the centre to accommodate this run-off. Note refer to Engineer for copies of wash suppliers pad details and follow these strictly when installing same.

(4) WATER TANK SUPPORTS

Provide 4No. footings to dimensions shown on Drawing No. 2478. Build support walls in 225mm solid block work to leave tank 1.0m above ground level. Lay 225mm D.P.C. and set tank provided by Texaco. Allow for cranage for placin tank, which may weight up to 2½ tons. Stick D.P.C. to under belly of tank and haunch up cradles.

(5)

(6) TRENCH RUNS FOR SERVICES

(a) Air - provide trench run from building to services stanchion position.

(b) Water - provide trench run from building to water storage tank position to water pump position to services stanchion.

(c) Electrics - provide trench run from building to control panel position to pump position. Provide trench run from control panel position services stanchion. Use common trench runs as far as possible Provide 100mm P.V.C. ducting with fish wire provision for pulling through in first instance.

(7) WATER SUPPLY

Bring 25mm hydrodane mains water supply to tank position and services stanchion. Fit 2No. stop cocks on line and use instantor compression fittings for T's, bends and straight connections. Supply and fit 25mm ball cock in tank and fit 25mm overflow as directed. Leave system ready for testing when pump is fitted. Repair and make good to any leaks that appear at test before lagging as required.

(8) SERVICES STANCHION

Provide 100mm square stanchion 4.25m long with 300mm squar base plate. Set plumb on 150mm floor at 600mm depth below ground level. Allow for bringing various services of air, water and electrics through base and up beside stanchion position. Provide 600mm square concrete base around stanchion position. Leave 3.6m stanchion above ground level. Set stanchion 4.5m back from leading edge of wash pad on right side as car passes through. Ensure 2.5m clearance from stanchion to centre line of machine travel and 0.975m between stanchion and adjacent washing machine

(9) CONTROL PANEL/ INSTRUCTION SIGNS

(a) Control Panel - provide 2No. 100mm square supports to 1.5m high each with 300mm base plate rawl bolted into concrete bases.

(b) Instruction Signs - provide similar supports for instruction signs.

(F) MISCELLANEOUS ITEMS

(1) BOUNDARY WALLS

Build boundary walls in 225mm hollow block construction or 600mm x 225mm concrete footings to 600mm height or as specified on the general layout plan. Cope with 900mm long x 305mm wide standards.

(2) FENCE RUNS

Provide 100mm square precast concrete posts set in 600mm cube mass concrete bases at 1.5m centres to stand 1.3m above ground level in plumb and in line. Fix 4No. 175mm x 25mm P.A.O. timber rails with brass screws to 100mm x 50mm battens bolted to the concrete posts. All to be as per Drawing No.2181.

(3) KERB RUNS

Set 225mm x 125mm precast kerbs on edge on sand and cement bedding on 150mm concrete bases to lines of perimeter of forecourt as shown on layout plan. Set base at 100mm below floor level of forecourt perimeter and haunch with 100mm fillet of concrete behind.

(4) SIGN BASES

Provide 600mm cube mass concrete bases for all light poles sign poles, diesel giving arm assemblies etc. For Texaco logo sign set bolt cages provided by Texaco in bases as set out on Drawing ~~No.2181.~~ Allow for 50mm electrics duct entry.

(5) UNDERGROUND SERVICES

Lay all water lines as shown on the services drawing. Include for water meter as required by relevant statutory authority. At water points as shown on the services drawing carry 12mm copper pipe to 600mm above ground level Terminate in a wall plate elbow fixed to wall, canopy stanchion, fence post etc. and provide bibcock control valve. Lay all electrical ducts as set out on the servic drawing. Include for incoming E.S.B. mains supply and incoming P.& T. line in separate independent 100mm and 50mm ducts. Attend on pipefitter with the laying of 13mm airlines and with the provision of airpoints beside water points as shown on services drawing.

(6) CONCRETE FINISHES

Care must be taken to finish all concrete surfaces to the highest standard and to the complete satisfaction of the Engineer. Concrete surfaces which are subject to vehicula traffic i.e. forecourt aprons, tank roof slabs etc. shall be neatly finished with a steel float. When the surface of the concrete has attained its initial set it shall be lightly brushed to produce a roughened surface with markings parallel to the cross fall. All edges and corne shall be arised to a 12mm diameter. All slab perimeters shall be set-off with a steel floated border. Concrete footpaths and pump islands shall be finished smooth with steel trowel with all corners and edges arrised to 12mm diameter. Where expansion joints are required, provide flexicell packing to within 25mm of surface. Seal to within 5mm of surface with pitch tar to keep out grit and water.

(7) LANDSCAPING

Grassed areas are to be turned over and topped out with 150mm good quality top soil. This is to be spread level and raked over before sowing with hard wearing grass seed spread at 30.0g/m^2 (1oz/yd^2). Finish with a light roll. Where herbaceous borders are to be set provide 300mm of top soil. Dress with manure and compost. Set contoneaster horizontalis, vinca major verigata and skimmia japonica at 1200mm centres in random design. Where trees are to be provided plant cupressus macracarpa or cupressus leylandii 3 year stock tied with bull wire through rubber hoze to 2.0m x 100mm timber stakes, set at 3.0m centres.

(8) SERVICE AREA

Build a service area compound as shown on the site plan and as per the service area detail drawing. This shall be to dimensions shown and shall be 225m solid block construction on concrete foundations with 300mm precast saddle back coping. It shall enclose a 150mm high equipment platform which shall be tiled in 150mm sq. black concrete tiles by Versatile Wooliscroft/Mosa ex Tile Style.

Service area sign will be supplied by Texaco ex Dunne Bros. and shall be installed in concrete bases by main contractor.

(G) GENERAL FORECOURT AND DRIVE AROUND SURFACING

(1) FILLING

Minimum Depth = 200mm. Fill to within ~~75mm~~ of finished level in 50mm crushed stone laid in 150mm layers. This stone shall be of approved quality and grading. The method of placing should be such as to reduce to a minimum the amount of segregation. This filling shall be compacted by not less than 4 passes of a 5 ton hand operated vibrating roller. The filling shall be blinded with quarry dust and this shall be rolled in with 2 passes of a 5 ton hand operated vibrating roller.

(2) BITUMACADAM SPECIFICATION

The finished surfacing shall be bitumen macadam manufactured in accordance with B.S. 1621, 1961. This shall consist of a dense base course laid in a single layer to a compacted thickness of 50mm and a dense wearing course laid in a single layer to a compacted thickness of 50mm. The aggregate shall consist of clean hard, durable crushed rock well graded from 20mm down. The binder shall be straight run bitumen.

(3) LAYING

The dense bitumen macadam shall be laid and compacted in a single layer. It shall be spread by means of an approved mechanical paver. This wearing course shall be compacted to the satisfaction of the Engineer by means of a 5 ton hand operating vibrating roller, making not less than 8 passes.

(4) LEVELS

The surface shall be finished to levels, gradients and cross fall shown on the general layout drawing. When tested over a length of 3.0m, the surface shall be within a tolerance of $\pm$ 12mm. If this tolerance is exceeded the level shall be corrected if necessary, by lifting and relaying.

(H) COBBLELOCK PAVING

(1) USE OF: This may be used instead of concrete slabs around pump islands/under canopy cover where so specified on drawings. Where underground tanks etc. are to be covered with cobblelock, the required concrete slabs must first be poured to finish at -130mm to provide sub-base layer.

(2) MATERIAL: Paving blocks shall not be less than 80mm thick and manufactured in accordance with the specification for precast concrete paving blocks (publication 97.302) published by Cement and Concrete Association

(3) COLOUR PATTERN: Blocks to be multicoloured Brick Red to Charcoal, laid in a herring-bone pattern.

(4) SUPPLIER: Pavia Interlocking Paving Blocks by Tobermore Concrete Products, Dungiven Road, Tobermore, Co. Derry.

(5) LAYING: Cobblelock shall be laid in accordance with the specification for concrete block paving given in Part 2 of Cement and Concrete Association Publication 46-026. This requires blocks to be laid on 50mm sand laying course on a 150mm sub-base course of 50mm crushed stone compacted by not less than 4 passes of a 5 ton hand operated vibrating roller. This course shall be blinded wit quarry dust and this shall be rolled in with 2 passes of a 5 ton hand operating vibrating roller.

(6) VIBRATION: The concrete block paving shall be subjected to enough passes of a steel faced vibrating plate compactor to produce an even block surface. A surcharge of up to 15mm sand in the laying course may be required to leave the required 50mm depth of this course after paving block vibration.

EDGES: Edge restraint to be achieved by 250mm x 125mm precast concrete kerbs laid flat on 150mm concrete bedding beneath and behind. Allow for run-off from paviours to Bit Mac surround. To edge to kerb restraints or surrounded manholes etc., blocks shall be generally cut to fit. Small gaps shall be filled with sand/cement mortar not leaner than 4 : 1 compacted in.

Telephone:- Dublin 765861
Telex:- Dublin 24534

Telegrams:-
"LABOUR, DUBLIN"

Address reply to:
An Rúnaí

AN ROINN SAOTHAIR,
(Department of Labour)

BÓTHAR MESPIL,
(Mespil Road)

BAILE ÁTHA CLIATH, 4
(Dublin, 4.)

and quote Ref. No. CM/DS/PR/40

Your Ref. MJ/CMcD

Corporation of Dublin
RECEIVED
20 MAR 1987
TARA ST.
DUBLIN FIRE BRIGADE

Marta, 1987

The Secretary,
Dublin Corporation,
Fire Prevention Section,
Liffey House,
Tara Street,
Dublin 1.

C.F.O. T.O
A.C.F.O. A.C.O.
A.C.O. Offices
T.O. Stores

For the Attention of Capt. J.F. Williams B.E.

Re: Dangerous Substances (Retail & Private Petroleum) Stores Regulations 1979.

A Chara,

I am directed by the Minister for Labour to refer to your letter dated 29th August, 1986, concerning the use of concrete block paving as a surfacing material for the petroleum despensing areas at retail stores.

I am to say that concrete block paving for surfacing forecourts (excluding road tanker stands) will be acceptable, provided the following conditions are complied with:-

(a) The blocks should have work size thickness of not less than 80 mm and be manufactured in accordance with the British Standard 6717: Part 1: 1986,

(b) The paving shall be laid in accordance with the specification for concrete block paving given in the Cement and Concrete Association publication 97.303 (copy herewith),

(c) The concrete surrounds of petroleum spirit storage tanks and pipelines shall be below the sand laying course. The tank manhole chamber should continue to extend to forecourt level,

(d) Drainage pipes shall be below the sub-base,

(e) In areas where there is strict water control, the pavement should be sealed off from the ground water.

It is proposed, in the future, to grant a licensee who complies with the above conditions exemptions in respect of the requirements to have an impervious and non-absorbent forecourt surface.

Mise le meas,

P. Furey,
Industrial Inspector.

19/3/87

WORK ON EXISTING FORECOURTS

(1) JOB ORGANISATION — The Contractor shall arrange the programme of the work with the Service Station Manager so that customers may be conveniently served with product throughout the duration of the contract.

(2) DISPENSING OF PRODUCT — All work likely to be hazardous, e.g. a condition which will create a spark, must be suspended when product is being dispensed or received.

(3) PROVISION OF FIRE EXTINGUISHER — The contractor shall provide 1 No. 10 lbs Power extinguisher for use on either product or electrical fires. He shall ensure that his employees are fully conversant in the operation and use of such an extinguisher.

(4) OPENING OF FORECOURT — The contractor must take extreme care so as not to interfere with underground pipelines and services when opening any section of the forecourt of surrounding areas

(5) CUTTING OF CONCRETE — All concrete that requires to be cut shall be assumed to be 200mm thick reinforced with A252 mesh on bottom and shall be cut using a circular concrete saw or hand tools. Where applicable, e.g. for trenches, the concrete cuts should be parallel. During this operation the surface of the concrete being cut shall be kept continually wet by the playing of a water jet on the concrete surface, if so directed.

(6) EXCAVATION — All excavation shall be carried out by hand with the exception of sumps which are excavated remote from the product dispensing area.

(7) EXCAVATION FOR DRAINS — The contractor shall excavate along the line shown on the plan for all drains on the site. The bottom of the excavation shall be cut to the fall of the drain but shal be 150mm underneath the level of the bottom of the drain in every case. The contractor shall excavate for manhole Armstrong junctions, gully traps, etc., in the positions shown.

(8) EXCAVATION FOR SUMPS — The contractor shall excavate for sumps where shown on plan.

(9) EXCAVATION FOR APRON AND ISLANDS — The contractor shall excavate for concrete aprons to a depth of 150mm or 225mm as appropriate below finished slab level. The excavation for islands shall allow for the adequate keying in of the island into the surrounding apron. The contractor shall ensure that the exposed hardcore remains in its compacted state.

(10) INSPECTION — All excavations shall be inspected and passed before any filling of concrete or hardcoring is undertaken.

(11) SUB-BASE — After breaking out existing surfaces allow for regulating and compacting the existing sub-grade with an eight ton roller, if required.

(12) RETURN, FILL IN AND RAM

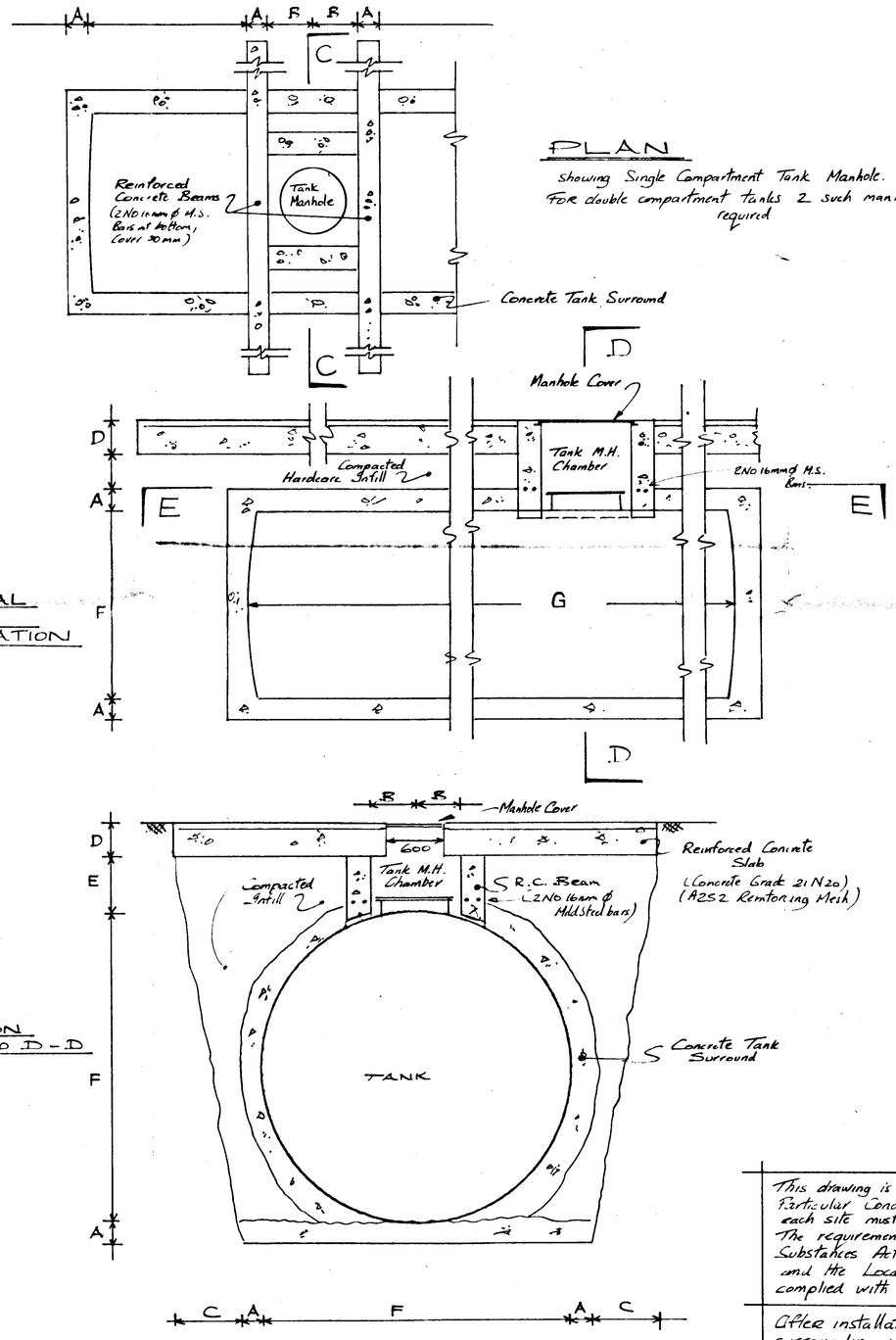
Return and fill in selected excavated material around foundations and at drainage cuttings, supply pipe cuttings, etc., up to required level, in layers not exceeding 230mm thick and carefully ram and consolidate with the addition of water if required.

(13) PROVISION OF TEMPORARY OFFICE

The contractor shall take delivery of 12ft x 8ft Portocab supplied by Texaco to accommodate Station Management during construction period. He shall provide attendance on siting, levelling etc., and to bring an electrical supply to feed lights and power sockets.

Notes

Concrete: 28 day cube compressive strength 21 N/mm²



PLAN

showing Single Compartment Tank Manhole.
For double compartment tanks 2 such manholes required

PARTIAL SIDE ELEVATION

SECTION C-C AND D-D

Tank Capacity - nominal gallons - cubic metres	1 & 2 Compartment Tank							
	WT.	G	F	A	B	C	D	E min
1100 5.0		3370	1500	150	450	600	250	400
1650 7.5		4870	1500	150	450	600	250	400
2200 10		3700	2000	150	450	600	250	400
3300 15		5200	2000	150	450	600	250	400
4400 20		7000	2000	150	450	600	250	400
4400 20		*	2512	150	450	600	250	400
5500 25		*	2512	150	450	600	250	400
5500 25		5246	2700	150	450	600	250	400
6600 30		5846	2750	150	450	600	250	400
7700 35		6746	2750	150	450	600	250	400
8800 40		7646	2750	150	450	600	250	400

This drawing is for information only. Particular conditions relevant to each site must be considered. The requirements of the Dangerous Substances Act, The Planning Act, and the Local Authority must be complied with in each case

After installation and before surrounding in concrete each tank must be pressure tested to the satisfaction of the Local Authority

The Location and Siting of Tanks must conform to the requirements of The Dangerous Substances Act Statutory Instrument 311 of 1979

All Tanks must be installed at sufficient depth to allow a fall of approximately 1:100 from pump to tank

No	Revision	Date

Texaco (Ireland) Limited
Texaco House, Ballsbridge, Dublin 4

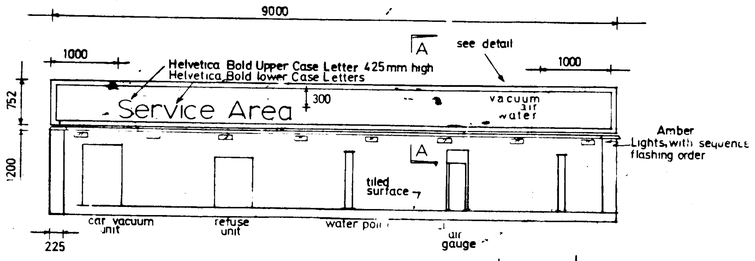
Client

Scale Not to Scale
Date Feb 88
Drawn EJR
Checked

Title
Standard Details for Underground Petroleum Class I Tank Installation

Drawing No
25094

AARQUE 6024 82



ELEVATION

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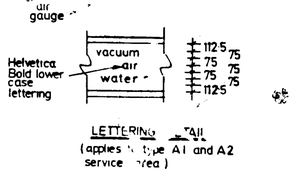
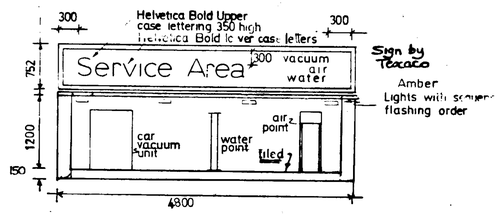


LETTERING DETAIL
(applies to type A1 and A2 service area)



ELEVATION

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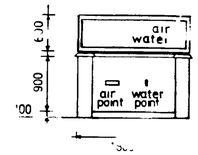
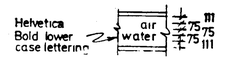


ELEVATION

scale 1:50



LETTERING DETAIL
(for type B service area sign)

VACUUM: EUROCLEAN CARVAC by ELECTROLUX EUROCLEAN

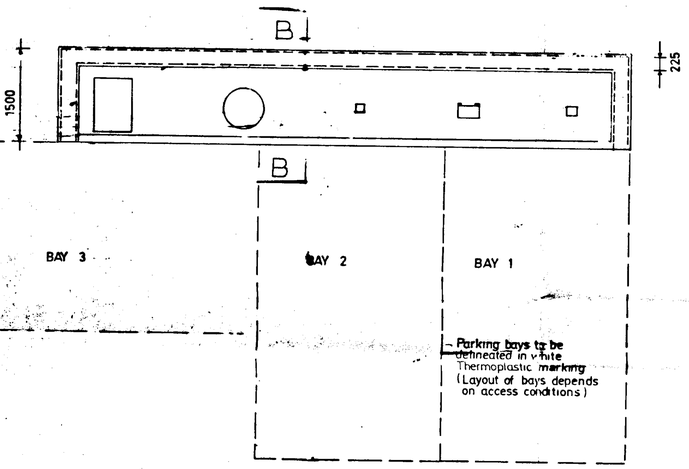
ELECTRONIC AIR GAUGE: TIRITE by FORECOURT AUTOMATION LTD

WATER DISPENSER: CODE NO 500 0001 0032 99 685 9 by P.C.L.

TILES: VERSATILE by WOOLISCROFT COLOUR 'BLACK'

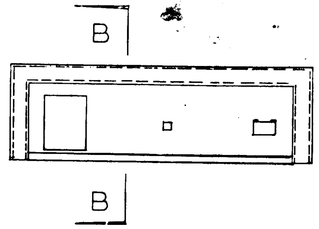
LIGHTS: DYMOND 3000 SERIES 60Watt single lamp amber colour with white diffusers Supplied by E.W.T.

WARNING PRE-SET GAUGE AIRLINE AND MANUAL AIRLINE HOSES SHOULD NOT BE INSTALLED ON THE SAME MOUNTING POINT



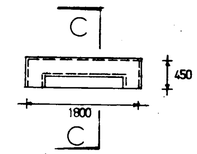
PLAN VIEW sign not shown

scale 1:50



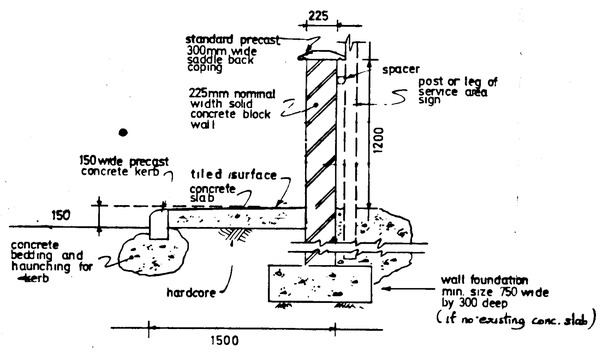
PLAN VIEW sign not shown

scale 1:50

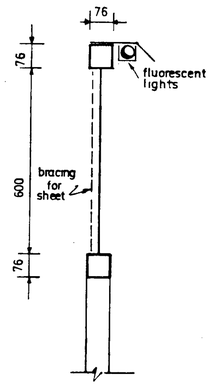


PLAN VIEW sign not shown

scale 1:50

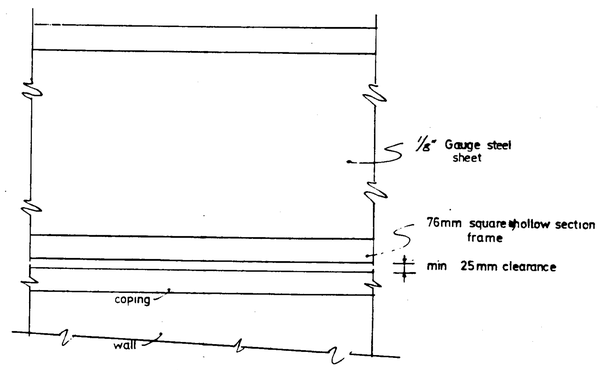


SECTION B-B



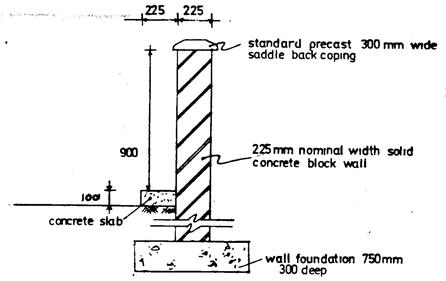
SECTION A-A

scale 1:10



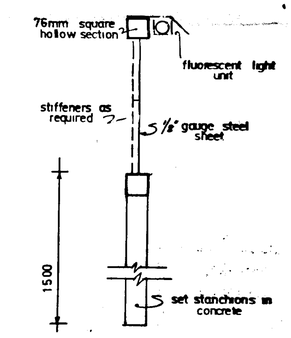
SIGN DETAIL applies to service area type A1 and A2

scale 1:10



SECTION C-C

scale 1:20



SECTIONAL DETAIL OF TYPE B SIGN

SERVICE AREA TYPE A1

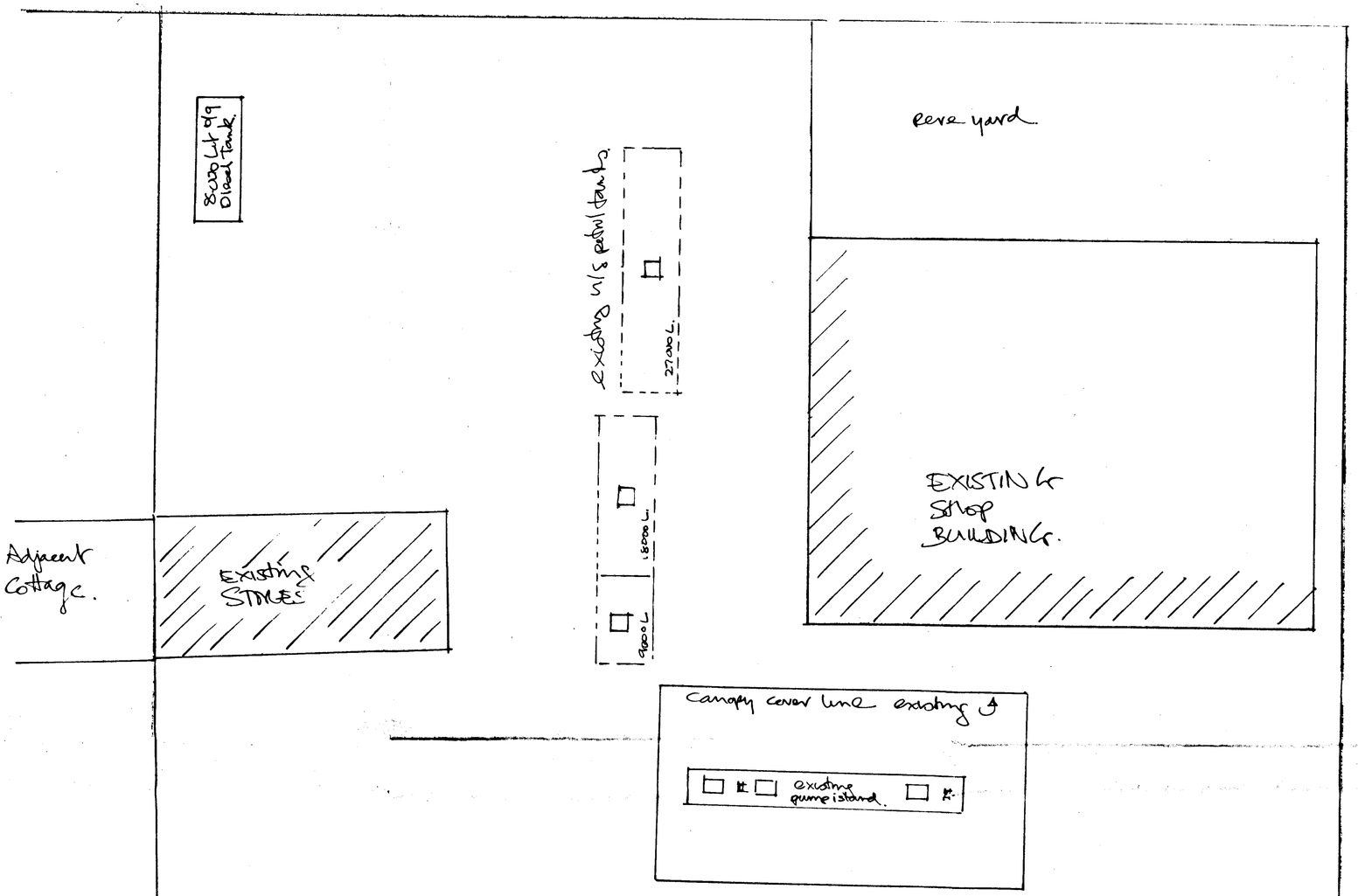
SERVICE AREA TYPE A2

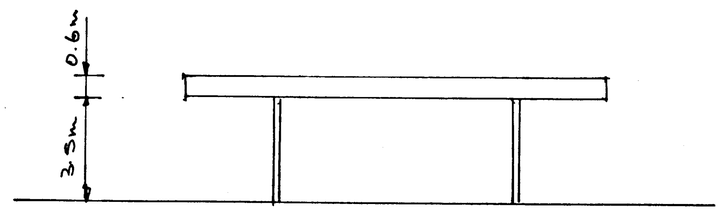
SERVICE AREA TYPE B

No	Revision	Date

SYSTEM 2000 SERVICE AREA
DETAILS FOR "A" and "B" SITES

Client: TEXACO (IRL) LTD	Scale AS SHOWN Date FEB '84 Drawn EJR Checked
Title: PLANS, ELEVATIONS SECTIONS, DETAILS.	Drawing No 2000/1





Notes

NOTE

1. As part of a proposal to make better use of the total space available at this site it is planned to :-
   - Demolish the existing Store.
   - remove the 8000L o.g Diesel tank from its present location
   - take down the existing 2 post canopy and remove off site.
2. Existing u.g petrol storage will be maintained as far as possible.
3. All existing u.g pipe runs will be abandoned and new pipework installed from both existing u.g tanks and proposed u.g tanks to the new pump island positions
4. Existing drain lines across site will be disregarded and abandoned. and a complete new system of Forecourt drainage installed.
5. It is not proposed to alter the existing shop building.
6. With regard to the proposed Demolition of the existing Stores Building, it is recognised that this dilelict, unserviced cottage represents a habitable dwelling under the terms of of the Planning Acts and that its demolition constitutes development. Permission for this piece of development is sought as an integral part of the total Development proposal and is specifically referred to in the Planning Notice. this aspect has been discussed with the owner/occupier of the adjacent cottage and this general agreement obtained. this enjoyment of his property will be guaranteed by adequate and suitable weathering of exposed gable.

RECEIVED
29 JUL 1991
Reg. Sec.

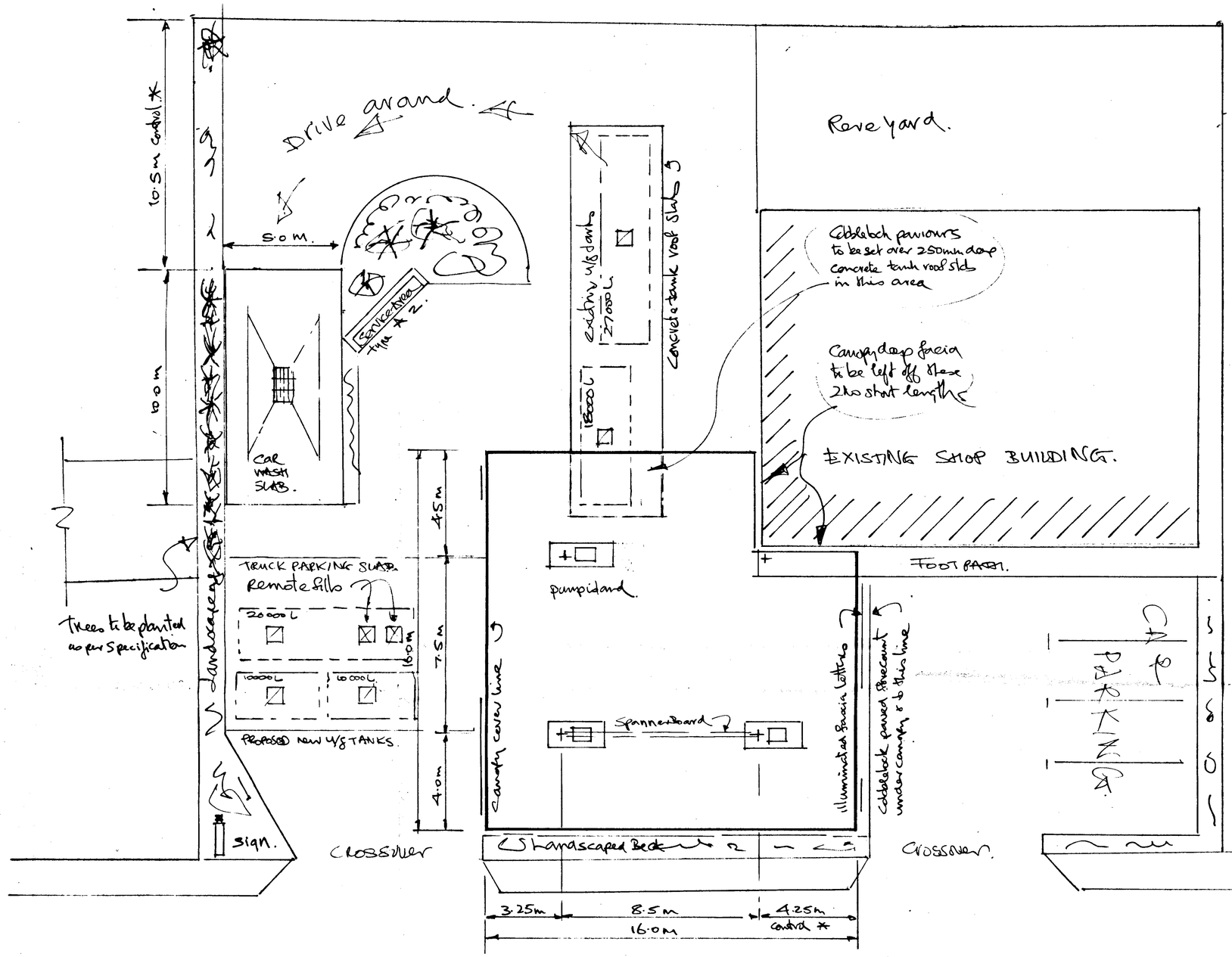
A Revised to show boundary to rear.

No	Revision	Date

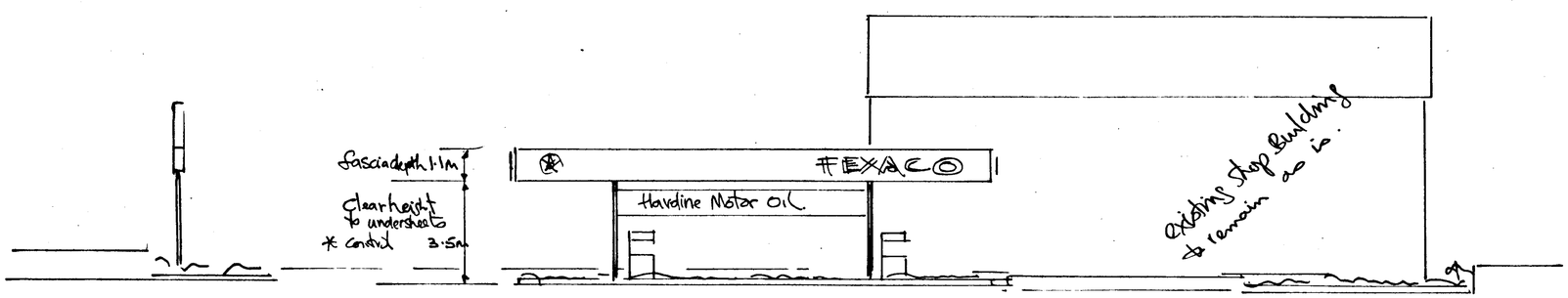
EXISTING G.A PLANS
KELLYS S/S. Newcastle
Co DUBLIN.

Client Sean & Dora Kelly	Scale 1/100 Date July 91 Drawn Checked MoK
Agent TEXACO (I) Ltd	Drawing No 2904A

JDH



PLANS.



FRONT ELEVATION.

Notes

GENERAL REMARKS

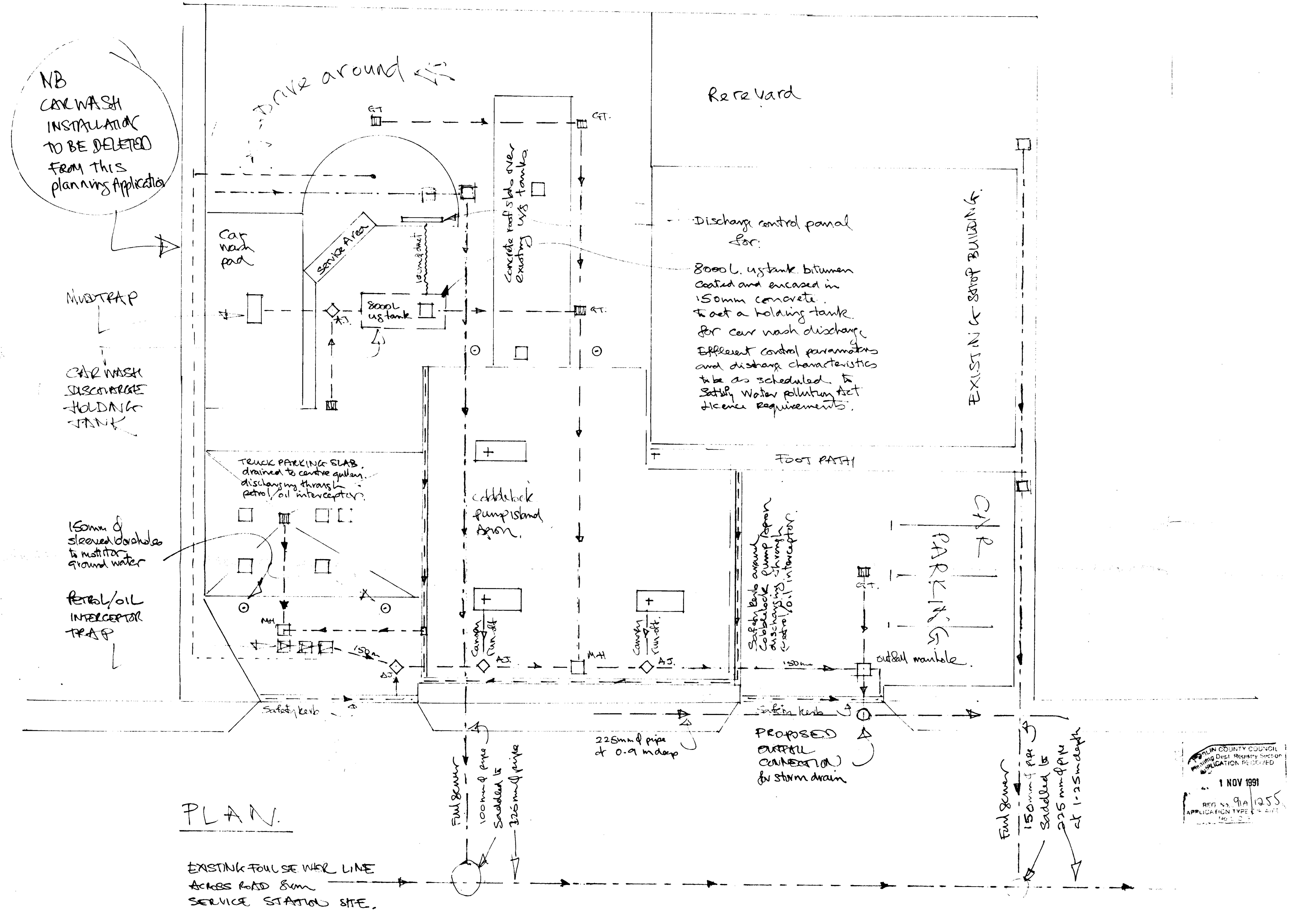
1. The objective of this proposal is to attempt to make better use of the total space available at this site
2. In so doing it is a further objective to provide better customer facilities and to integrate these & provide the optimum layout for this site.
3. The proposed layout is centred around a 4 post canopy with 3 no pump islands wrapped around the front L.H. corner of the existing building.
4. It is proposed to abandon the existing 9000Ltr u/g tank and to maintain the existing 18,000 Ltr u/g tank & the existing 27,000 Ltr u/g tanks and to provide new 250mm R.C concrete roof slabs to these as per specification.
5. It is proposed to install
   1 No 20,000 Ltr u/g tank
   2 no 10,000 Ltr u/g tanks
   (1 no of which will be allocated to diesel)
   all to be as per the D.S.A. regs and as per specification.
6. It is proposed to repipe the forecourt (See drawing No 3230.)
7. It is proposed to service the forecourt (See drawing No 3230)
8. It is proposed to set a comprehensive drainage system in accordance with good practice, the D.S.A regs and as per specification
9. It is proposed to make provision for a car wash and a service area to L.H.S. rere of site
10. The front boundary will be set to comply with planning requirements and a front and side boundary landscaping scheme agreed with county council.

RECEIVED 29 JUL 1991 Reg. Sec.

No	Revision	Date

PROPOSED G.A. PLAN.
KELLY Service Station. Newcastle
Co DUBLIN

Client SEAN + DERA KELLY	Scale 1/100 Date 2nd July 91 Drawn Checked MWKane
Job TEXACO (Ire) Ltd.	Drawing No 3229.



Notes

Notes

1 An integral part of the proposal to rehabilitate this site is the provision of a suitable drainage system all in accordance with general industry Good practise and the D.S.A regulations

(a) This includes the proper draining of the pump island apron and the tank truck parking slab through a petrol/oil interceptor trap.

(b) It allows for the adequate drainage of run off from the remainder of the forecourt to discharge to the storm water drain after bypassing the petrol/oil interceptor trap

2. A car wash installation is provided for by a reinforced concrete slab draining to a mud trap discharging waste run off to the storm water drain

(a) It is noted that Dublin County Council usually require car wash run off to discharge to the foul sewer.

(b) It is noted that the existing waste water treatment plant cannot improve the quality of outflow sufficiently to avoid overburdening the assimilitive capacity of the recieving waters

(c) In this situation permission is sought to discharge car wash run off to the storm water drain, with the following provisos.
- environmentally friendly detergent to be used
- waste holding tank to be installed
- discharge to be monitored and controlled automatically to ensure waste characteristics comply with Water Pollution Act Licence requirements.

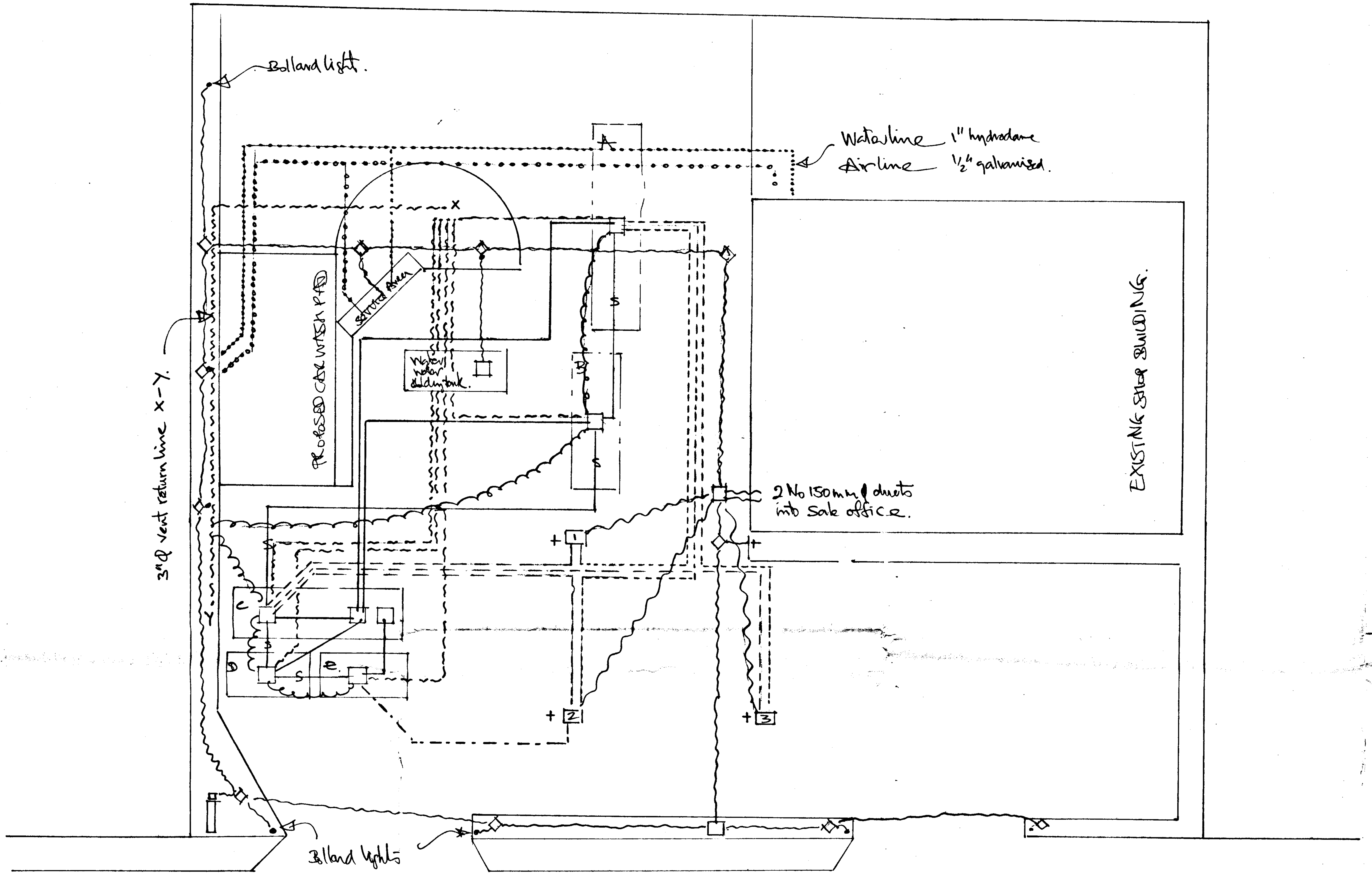
NB. This drawing to be read in conjunction with Drawing No 3229. – the G.A. plans.

No	Revision	Date
☆	Foul & storm main runs added	Nov 91

PROPOSED DRAINAGE LAYOUT – KELLY'S Service Station, Newcastle Co. DUBLIN.

Client: SEAN + DORA KELLY	Scale 1/100 Date July 91 Drawn Checked M O'Kane
for TEXACO (I) Ltd	Drawing No 3231.A

JDH



PLAN.

LEGEND			
1	2 grade pump prem/unleaded	———	3"Ø off fill lines
2	3 grade pump prem/unleaded/Diesel	—S—	2"Ø Syphons
3	2 grade pump prem/unleaded	~~~~	2"Ø Vent lines
		- - - -	1½"Ø premium suction lines
A	existing 27,000 lit u/s tank (prem)	— — —	1½"Ø unleaded suction lines
B	existing 18,000 lit u/s tank (prem)	— - —	1½"Ø Diesel suction lines
C	Proposed 20,000 lit u/s tank (unleaded)		100mm Ø Ducts for u/s tank gauges
D	proposed 10,000 lit u/s tank (Diesel)		100mm Ø Ducts for self service cables
E	proposed 10,000 lit u/s tank (Diesel).		100mm Ø Duct for forecourt electrics.

Notes

Notes

1 New tanks C, D & E to be installed to allow all Syphon connections to be effective

2 9000 lit compartment (adjacent 18,000 lit compartment tank B) to be abandoned by filling with lean mix concrete.

3 All pipe runs and duct runs to be as shown diagrammatically. Alternative runs will be permitted or may be required to obtain adjacent falls on fills and suctions lines

4. Provision to be made for Stage I(b) vapour recovery as shown

5 provision to be made for stage II vapour recovery by fitting of 1" return lines alongside all prem & unleaded lines or truncking back into 2" or 3" lines as may be acceptable

NB this drawing to be read in Conjunction with Drawing No 3229-G A. plan.

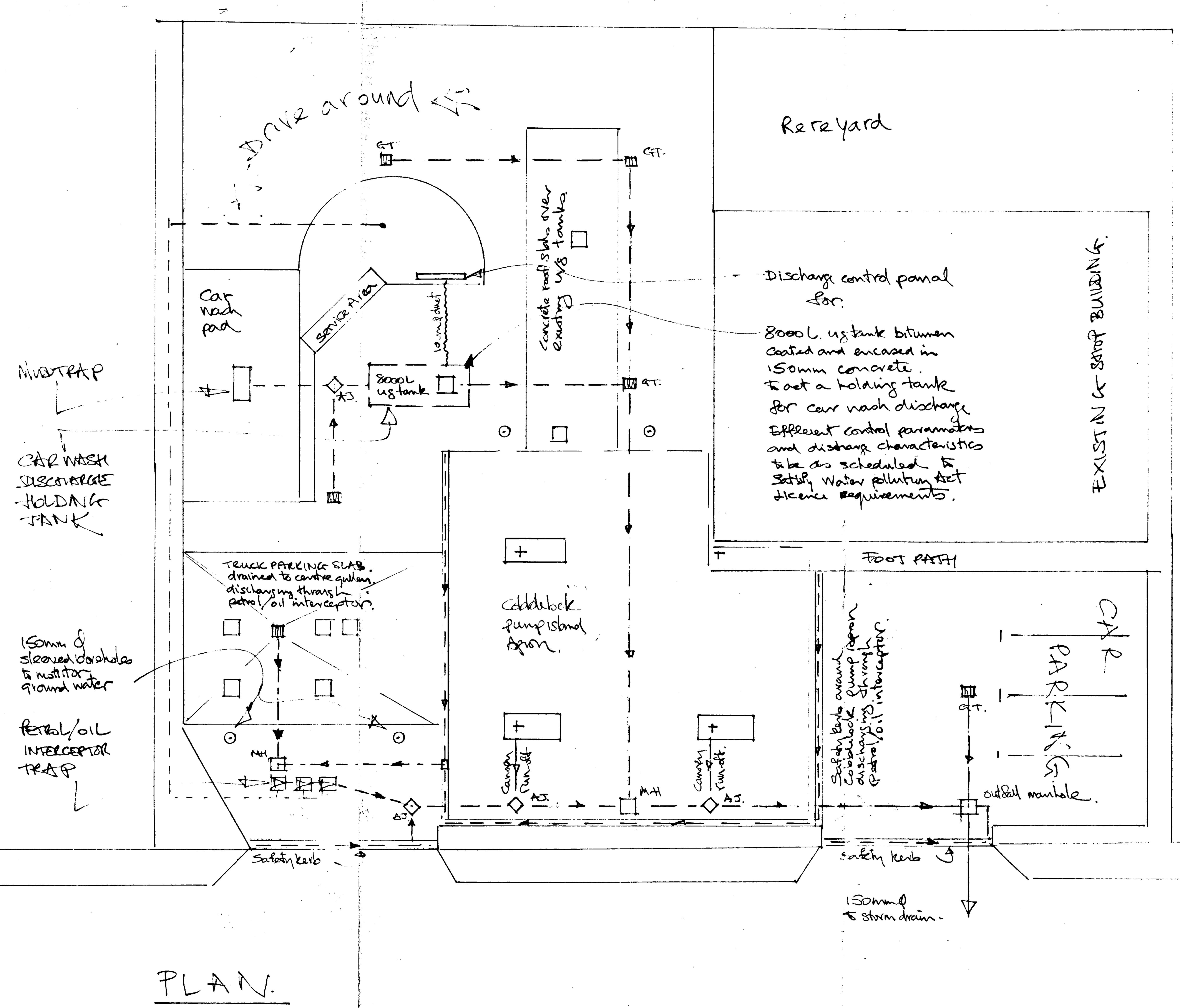
RECEIVED 29 JUL 1991 Reg. Sec.

No	Revision	Date

PROPOSED U.G. Services Layout KELLY Service station Newcastle Co DUBLIN

for SEAN & DORA KELLY	Scale 1/100 Date July 91 Drawn Checked Mc'Kane
by TEXACO (I) Ltd.	Drawing No 3230.

JDH



Notes

1 An integral part of the proposal to rehabilitate this site is the provision of a suitable drainage system all in accordance with general industry good practise and the D.S.A regulations.

(a) This includes the proper draining of the pump island apron and the tank truck parking slab through a petrol/oil interceptor trap.

(b) It allows for the adequate drainage of run off from the remainder of the forecourt to discharge to the storm water drain after bypassing the petrol/oil interceptor trap.

2. A car wash installation is provided for by a reinforced concrete slab draining to a mud trap discharging waste run off to the storm water drain.

(a) It is noted that Dublin County Council usually require car wash run off to discharge to the foul sewer.

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- waste holding tank to be installed
- discharge to be monitored and controlled automatically to ensure waste characteristics comply with Water Pollution Act Licence requirements.

N.B. This drawing to be read in conjunction with Drawing No 3229. – the site plan.

RECEIVED 29 JUL 1991 Reg. Sec.

No	Revision	Date

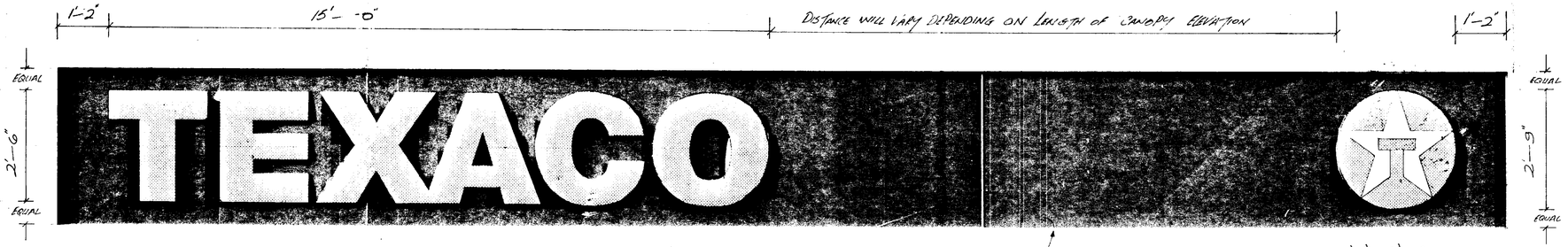
PROPOSED DRAINAGE LAYOUT
KELLY'S Service Station, Newcastle
Co. DUBLIN.

For SEAN + DORA KELLY

Scale 1/100
Date July 91
Drawn
Checked McKane

by TEXACO (I) Ltd

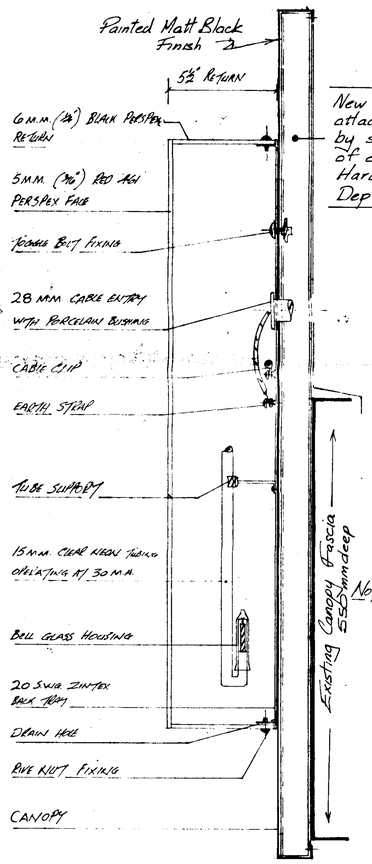
Drawing No 3231.



TEXACO No 31 Red Box Letters Illuminated.

Painted Matt Black Finish

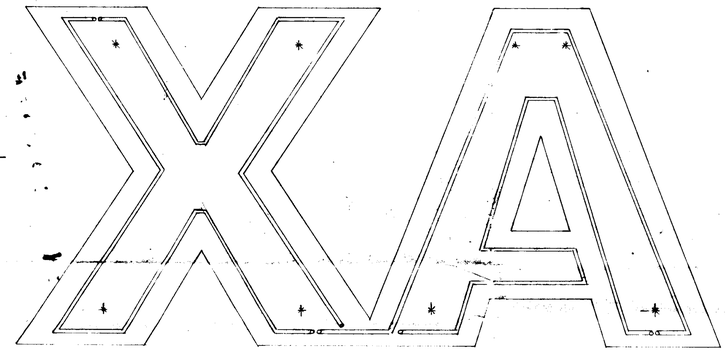
White Star on TEXACO No 31 Red Background. Illuminated



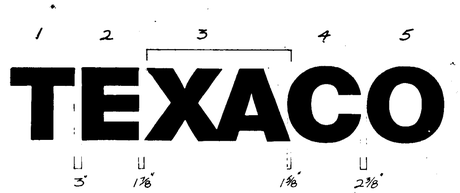
New Deeper Fascia attached to existing by specialist manufacturer of original canopy (Conder Hardware Ltd) Depth of new Fascia 1100 mm

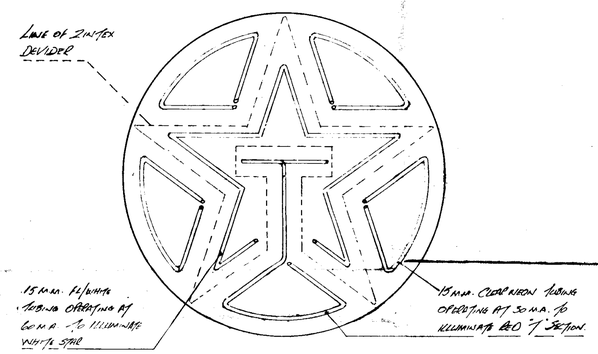
Note:- Back Panels Finished White inside, Texaco No. 34 Black (matt) outside. Inside of Returns on letters Having Mist Coat White.

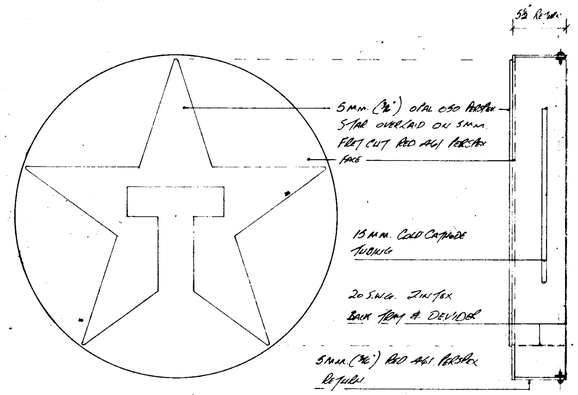
SECTION DETAIL



DOUBLE OUTLINE TUBING TO LETTERS
ALL LEAD CABLE SERIES







Notes

GENERAL NOTES FOR MANUFACTURING.

1/ FACE & RETURNS OF ALL LETTERS & NOTES ARE TO BE CONSTRUCTED FROM ACRYLIC SHEET TO THICKNESS AND COLOUR AS INDICATED.

2/ BACK PANELS TO ALL LETTERS & NOTES ARE TO BE CONSTRUCTED FROM ZINTEX (ZINC PLATED M/S SHEET)

3/ PAINT FINISH TO ALL BACK PANELS
ONE COAT CELLULOSE PRIMER
ONE COAT CELLULOSE UNDERCOAT
ONE COAT CELLULOSE FINISH, TO COLOURS AS INDICATED.

4/ ALL ILLUMINATION BY MEANS OF COLD CATHODE TUBING COMPLETE WITH NECESSARY TRANSFORMERS.

5/ ALL SERIES IN H.T. LEAD CABLE

GENERAL NOTES FOR INSTALLATION.

6/ ALL TRANSFORMERS MOUNTED ON PANELS ON TOP OF CANOPY

7/ EACH SITE TO HAVE 1 FIREMAN SWITCH, LOCK SWITCH & TIME CLOCK. FIREMAN SWITCH SUPPLIED & FITTED BY SIGN SUPPLIER.

No	Revision	Date

SYSTEM 2000
ILLUMINATED CANOPY-
FASCIA IDENTIFICATION.

Client: TEXACO (I) LTD, TEXACO House, BALLSBRIDGE D4	Scale
	Date Feb 84
	Drawn
	Checked
Title: BOX LETTERS and LOGO DETAILS	Drawing No: 2000/2