



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/1652

Date : 21st October 1991

Dear sir/Madam,

Development : Relocate 1,000 gallon diesel oil storage tank and bund enclosure at side

LOCATION : Unit No. C.1 Ballymount Drive, Lr. Ballymount Road, Walkinstown

Applicant : Nicholas Laboratories Ltd

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Date Recd. : 16th October 1991

Your application in relation to the above was submitted with a fee of 40.00 .

On examination of the plans submitted it would appear that the appropriate amount should be 100.00 .

I should be obliged if you would submit the balance of 60.00 as soon as possible as a decision cannot be made on this application until the correct fee is received.

Yours faithfully,

A handwritten signature in dark ink, appearing to be 'M. W.', written over a dotted line.

for PRINCIPAL OFFICER

Integrated Development Services Ltd
146 Lower Drumcondra Road,
Drumcondra,
Dublin 9.

PLANNING APPLICATION FEES

Reg. Ref. 9.1.A/1652

Cert. No. 26906

PROPOSAL Relocation of Diesel Oil Tank

LOCATION Unit C.1 Ballymont Drive, Ballymont Rd. D12

APPLICANT Nicholas Laboratories Ltd

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	£40	£60
8		@£100				
9	x metres	@£10 per m2 or £40				
10	x 1,000m	@£25 per £1000m or £40				
11	x .1 hect.	@£5 per .1 hect. or £40				

£60 24/10/91
NS0974

Column 1 Certified: Signed: Grade: Date:

Column 1 Endorsed: Signed: Grade: Date:

Columns 2,3,4,5,6 & 7 Certified: Signed: Grade: S. Date: 21/10/91

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

BYE LAW APPLICATION FEES

REF. NO.: 91A/1652 CERTIFICATE NO.: 16606B
 PROPOSAL: Relocation of Diesel oil Tank
 LOCATION: Unit C 1 Ballymount Drive, Ballymount Rd D12
 APPLICANT: Nicholas Laboratories Ltd

	1	2	3	4	5	6	7
CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMT. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FEE APPL.	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ £55					
B	Domestic Ext. (Improvement/Alts.)	@ £30					
C	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					
F	Dev. of prop. not coming within any of the forgoing classes	£70 or £9 per .1 hect. whichever is the greater	<u>£70</u>	<u>£70</u>	<u>—</u>		

Column 1 Certified: Signed: _____ Grade: _____ Date: _____
 Column 1 Endorsed: Signed: _____ Grade: _____ Date: _____
 Columns 2,3,4,5,6 & 7 Certified: Signed: [Signature] Grade: S.O Date: 25/10/91
 Columns 2,3,4,5,6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/1652

Date Received : 16th October 1991

Correspondence : Integrated Development Services Ltd
Name and Address : 146 Lower Drumcondra Road,
Drumcondra,
Dublin 9.

Development : Relocate 1,000 gallon diesel oil storage tank and bund enclosure at side

Location : Unit No. C.1 Ballymount Drive, Lt. Ballymount Road,
Walkinstown

Applicant : Nicholas Laboratories Ltd

App. Type : Permission

Zoning :

Floor Area : Sq.metres

^{not}
(NOB/BB)

Report of Dublin Planning Officer dated 4th December, 1991.

re-locate
This is an application for PERMISSION to erect an oil storage tank adjoining Unit C.1 at Ballymount Drive.

Reg. Ref. ZA 1445 refers to a decision to grant permission for internal offices at Unit D1 of the Ballymount Industrial Estate. The site of this permission is included in the current application which refers to Unit C1. The adjoining block to the east is marked on the site location plan as 'C'.

The site of the proposed oil tank is currently available for circulation and parking. No site layout has been submitted indicating parking to serve the existing or adjoining development. The site at present appears to have shared car parking, storage and circulation areas for all units.

No proposals have been indicated for the removal of the existing oil tanks or for the use/reinstatement of the site of this oil tank, when a replacement is provided.

Chief Medical Officer report no objections.

I recommend that ADDITIONAL INFORMATION be requested from the applicant with regard to the following:-

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

- 01 The site location plan with the application identifies the site as the location previously approved as Unit D1. The applicant is requested to clarify the site location map to indicate whether the proposal refers to unit D1 or C1.
- 02 The applicant is requested to indicate proposals for the removal of the existing oil tanks and to indicate proposals for the use or reinstatement of the site of these tanks.
- 03 The applicant is requested to submit a site layout plan indicating car parking, external storage and circulation areas to serve the existing and adjoining premises and to indicate the proposed oil tank in relation to these areas.

GA
.....
for Dublin Planning Officer.

W. J. [Signature]
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 : *11th* DECEMBER 1991
.....

[Signature]
.....
ASSISTANT COUNTY MANAGER/APPROVED OFFICER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated *6th November* 1991.

DUBLIN COUNTY COUNCIL
PLANNING AND BUILDING CONTROL DEPARTMENT

Senior Environmental Health Officer,
33 Gardiner Place.

Date : 17th October 1991

Register Reference : 91A/1652

Development : Relocate 1,000 gallon diesel oil storage tank and bund enclosure at side

LOCATION : Unit No. C.1 Ballymount Drive, Lr. Ballymount Road, Walkinstown

Applicant : Nicholas Laboratories Ltd

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer :

Date Recd. : 16th October 1991

Attached is a copy of the application for the above development. Please ensure that your report is received within 5 weeks from 16th October 1991.

Yours faithfully,

.....
for PRINCIPAL OFFICER

I have no objections to this proposal provided compliance with
1 Safety in Industries Act 1955-80
2 Health Safety & Welfare at Work Act 1989
The application should be referred to the Fire Officers Dept.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 8.11.91
Time 12.25

Janet Kelly
EHO 5/11/91

Ma Devine
for John O'Kelly JHO
5/11/91



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/ 5586 /91 Date of Decision : 11th December 1991

Register Reference : 91A/1652 Date Received : 16th October 1991

Applicant : Nicholas Laboratories Ltd

Development : Relocate 1,000 gallon diesel oil storage tank and bund enclosure at side

Location : Unit No. C.1 Ballymount Drive, Dr. Ballymount Road, Walkinstown

Dear Sir/Madam,

With reference to your planning application, received here on 16.10.91 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 The site location plan with the application identifies the site as the location previously approved as Unit D1. The applicant is requested to clarify the site location map to indicate whether the proposal refers to Unit D1 or C1.
- 02 The applicant is requested to indicate proposals for the removal of the existing oil tanks and to indicate proposals for the use or reinstatement of the site of these tanks.
- 03 The applicant is requested to submit a site layout plan indicating car parking, external storage and circulation areas to serve the existing and adjoining premises and to indicate the proposed oil tank in relation to these areas.

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

Integrated Development Services Ltd
146 Lower Drumcondra Road,
Drumcondra,
Dublin 9.



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

Reg.Ref. 91A/1652
Decision Order No. P/ 5586 /91
Page No: 0002

Yours faithfully,

A handwritten signature in black ink, appearing to read 'Joe Henry', written over a dotted line.

PRINCIPAL OFFICER

Date : 12/12/91

COMHAIRLE CHONTAE ÁTHA CLIATH

PAID BY — 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 prescribed application
fee

Balance

N 50974

£60.00

Received this 21st day of October 1977

from Integrated Dev. Services Ltd,
146 LA Drumcondra Rd,
D9

the sum of sixty Pounds

Pence being Eighteen

fee on 91A/1652

Maeleir O'Carra

Cashier

S. CAREY
Principal Officer

Integrated Development Services Ltd.

Property Acquisition and Development Consultants.

146 Lower Drumcondra Road, Dublin 9, Ireland. Telephone: (01) 370936, 379362, 360033. Fax: (01) 369303.

Att. Mr. Richard Whelan,
Dublin Co. Council,
Planning Department,
Block 2,
Irish Life Centre,
Lower Abbey St.,
Dublin, 1.

23rd October, 1991.

RE; RELOCATE 1,000 GALLON DIESEL OIL STORAGE TANK AND BUND
ENCLOSURE AT SIDE UNIT NO. C1 BALLYMOUNT DRIVE,
LOWER BALLYMOUNT ROAD, WALKINSTOWN FOR NICHOLAS LABORATORIES
LTD. REG. REF. 91A/1652.

Dear Sir,

Further to your letter dated 21/10/91 please find enclosed cheque in the amount of £60.00 as requested as the balance for the above application.

Yours sincerely,


ADAM HEFFERNAN,
for INTEGRATED DEVELOPMENT SERVICES.

24 OCT 91

Integrated Development Services Ltd.

Property Acquisition and Development Consultants.

146 Lower Drumcondra Road, Dublin 9, Ireland. Telephone: (01) 370936, 379362, 360033. Fax: (01) 369303.

25th October 1991

Principal Officer
Dublin County Council
Planning Department
Irish Life Centre
Lower Abbey Street
Dublin 1



91A/1652
3.2.2
sent A.I. for BB2

Re: Building Bye-Law Application Ref. 91A/1652

Relocation of 1,166 gallon oil storage tank at Unit C 1, Ballymount Drive, Ballymount Industrial Estate, for Nicholas Laboratories Ltd.

Dear Sir

As final part of our building bye-law application we enclose 2 No copies.

1. Drawing No. V-75-01 structural details. -----
2. Civil and structural specification. -----
3. Engineers certificate. -----

Yours faithfully

91A/1652

ADAM HEFFERNAN
for INTEGRATED DEVELOPMENT SERVICES LTD

JOHN MOYLAN & ASSOCIATES

Consulting Engineers

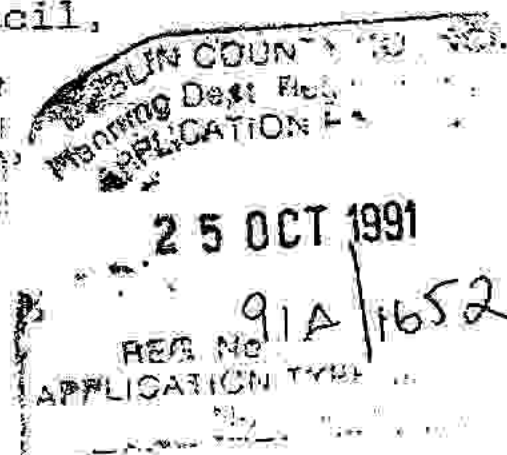
79 Merrion Square,
Dublin 2.

Telephone: (01) 615337/612475.
Facsimile: (01) 610255.

Your Ref.

Our Ref. V-75/JM

The Chief Planning Officer,
Dublin County Council,
Block 11,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.



17th October 1991

Re: Proposed Bunding to Oil Storage Tank at
Nicholas Laboratories, Ballymount Road
For Nicholas Laboratories

Dear Sirs,

We wish to advise that we have been appointed civil and structural consulting engineers in connection with the above development.

We confirm that all works of a civil and structural content will be designed at this office in accordance with the relevant updated Irish and British Standards and Codes of Practice.

If the job proceeds and if we are engaged to do so the structural works will be supervised by periodic visits to the site in the manner normal to consulting engineers. The frequency of such visits will depend on the apparent need for supervision as the job proceeds.

Yours faithfully,

John Moylan
John Moylan & Associates.

I.D.S.
25 OCT 1991
REC

John Moylan, B.E., C. Eng., M.I.E.I., M. Cons., E.I.

PROPOSED BUNDING TO OIL STORAGE TANK,

AT

NICHOLAS LABORATORIES,

BALLYMOUNT ROAD,

DUBLIN 12.

FOR

NICHOLAS LABORATORIES LTD.

CIVIL AND STRUCTURAL SPECIFICATION

DUBLIN COUNTY COUNCIL
Planning Dept Registry Section
APPLICATION FILE
25 OCT 1991
REG No. 91A/1652
APPLICATION TYPE U.I.
NGLD 5

I.D.S.
25 OCT 1991
RECEIVED

John Moylan & Associates,
Consulting Engineers,
79, Merrion Square,
Dublin 2.

Tel Nos. (01) 615337/612475
Fax No. (01) 610255

17th October 1991

PREAMBLE - GENERAL REQUIREMENTS

1.1. DEFINITIONS.

The following terms whenever used in this specification shall be taken to have the meanings indicated below:

The "Engineer" shall mean

John Moylan & Associates,
79, Merrion Square,
Dublin 2.

"Approved" or "Approval" shall mean approved by the Engineer in writing.

1.2. RESPONSIBILITY

No approval by the Engineer shall in any way relieve the Contractor of his responsibility for the quality of materials and the standard of workmanship in the finished works and for the strength and durability and appearance of the finished concrete works.

1.3. VARIATIONS

No variations to this specification may be made unless approved by the Engineer.

1.4. DEFECTIVE WORK

Where in the opinion of the Engineer any of the finished works or the materials or workmanship in any part of the works do not comply with all the relevant parts of this specification, that part of the works shall be classed as defective works.

All such work shall be cut out and replaced to the satisfaction of the Engineer.

The extent of the work to be removed and the methods to be used in removal and replacement of this work shall be in accordance with the directions of the Engineer.

1.5. DESIGN

The reinforced concrete works have been designed generally in accordance with the recommendations contained in British Codes of Practice B.S. 8110. In regard to concrete materials, specification and construction, the Contractor shall comply with the recommendations made in section 6 of B.S. 8110 together with Road Note No. 4 prepared by the Department of Scientific and Industrial Research (Design of concrete mixes) unless specifically excluded or modified hereafter.

1.6. WORKS PROGRAMME

The Contractor shall submit a programme of works for the approval of the Engineer. Notwithstanding such approval, the Contractor shall comply with the Engineer's instructions to carry out any part of the works at any time.

1.7. SITE INVESTIGATIONS

Prior to submitting his tender the Contractor shall carry out a thorough examination of the site. He shall satisfy himself as to his ability to complete the Works in accordance with the Contract and ensure that he has made adequate provision in his tender for all supervision, plant, temporary works, etc. necessary for such completion.

The report of the site investigation carried out by the Engineer is included for the information of the Contractor. This report does not relieve the contractor of his obligation to examine the site thoroughly and to include in his tender for all costs necessary for the satisfactory completion of the Works. The site investigation has been carried out for the specific purpose of design of the permanent works. The interpretation of the data for the design and/or costing of temporary works and/or alternative design submissions is the responsibility of the Contractor.

Notwithstanding the site investigation report or the tender, variations in ground conditions which are of a normal nature and could reasonably be foreseen by competent Contractors experienced with Works of this nature on sites of similar geological formation, shall not form any basis for a claim.

The Contractor shall be at liberty to carry out a separate site investigation to investigate subsoil conditions entirely at his own cost. In this event, the Contractor shall consult with the Engineer, prior to commencement of the investigation, on the proposed scope of work and on the proposed method of operations and of testing. The results of any such investigation shall be made known to the Engineer immediately they become available to the Contractor, firstly during the course of field work and secondly on completion of laboratory testing including the provision of a report and/or conclusions.

1.8. SETTING OUT

The Contractor will be supplied with the information necessary to establish the lines and levels of the works. Where master pegs and/or levels have been

established by the Engineer, the Contractor shall check the accuracy of their position, level and/or alignment and shall immediately notify the Engineer of any discrepancies. The Contractor shall ensure that the position of all master pegs and, where given, master levels can be accurately located by referencing them by measurement and/or level to reference points. At least two independent reference points shall be provided for each master peg. All master pegs and reference points shall be clearly marked and where appropriate bedded in concrete. They shall be adequately protected during the construction of the Works. Where it is necessary to remove a master peg additional reference pegs shall be provided.

Prior to commencing construction the Contractor shall set out centre lines and grid lines in sufficient detail to ensure that the work is fully compatible with existing features and any proposed constructions. The centre lines of the Works shall be perfectly co-ordinated with and shall be continuous with the centre lines of the adjacent works or existing roads. The Contractor shall, when instructed by the Engineer, make any adjustments necessary to satisfy these requirements. Where appropriate, reference points shall be adjusted to take account of the new locations of the master pegs.

The Contractor shall be fully responsible for the setting out of the works and the Engineer accepts no responsibility for replacing any of the master pegs or master levels where these have been given.

1.9. WATCHING, LIGHTING AND PROTECTION OF PUBLIC

The Contractor shall provide for protection of the works and property and for the protection and convenience of the public, adjacent owners, and occupiers including all necessary watching, lighting, barriers, guard rails, warning notices and for all precautions required by the Engineer.

1.10. NOISE CONTROL

The Contractor shall comply with the general recommendations set out in BS 5228 Code of Practice for Noise Control on Construction and Demolition Sites together with any specific requirements described in the Contract.

1.11. PROTECTION OF WATERCOURSES FROM POLLUTION

The Contractor shall ensure that waste products of whatever description associated with the works shall not enter watercourses, whether normally dry or not, which are adjacent to the works. The Contractor shall be solely liable for any claims for damage, including consequential loss or damage, resulting from such pollution.

1.12. PROTECTION OF EXISTING WORKS AND AMENITIES

The Contractor shall take all necessary precautions to safeguard all existing buildings and works from damage by construction activity, plant operation, ground water movement, ground movement and settlement, and all other activities associated with the execution of the Contract. If, in the opinion of the contractor, damage will, or is likely to be, caused to mains, services or adjacent structures, he shall submit to the Engineer his proposals for making surveys, monitoring movements or vibrations and provision of adequate temporary supports to avoid such damage.

1.13. CONDITION SURVEY

The Contractor shall carry out a condition survey and make all necessary records (Photographic or otherwise) of existing structures and other properties that could be affected by the execution of the works prior to the commencement of construction. The results of the condition survey shall be served on all interested parties and shall be maintained as a permanent record of the condition of existing adjoining properties prior to the commencement of construction.

1.14. EXISTING SERVICES

If any privately owned service for water, electricity, drainage, etc. passing through the Site is affected by the Works, then the Contractor shall locate it and provide a satisfactory alternative service before cutting the existing service.

The positions of Statutory Undertakers' mains and services and Public Authorities' sewers shall be verified by the Contractor who must satisfy himself as to the exact position of such apparatus. The Contractor shall take all measures required by any Statutory Undertaker or Public Authority for the support and full protection of the pipes, cables, and other apparatus during the progress of the Works.

1.15. FACILITIES TO OTHER CONTRACTORS OR UNDERTAKERS

The Contractor shall, during the period of the Contract, afford all reasonable facility to other Contractors or Service Undertakers who may be engaged in authorised work on or adjacent to the site.

1.16. MATERIALS, EQUIPMENT AND WORKMANSHIP

All materials and equipment shall be of the best of their type and to the satisfaction of the Engineer. Materials shall, as far as possible be of Irish manufacture or origin, and shall conform to the appropriate Irish Standard Specification. Where no Irish Standard Specification exists, materials shall comply with the relevant British Standard.

1.17. SAMPLING AND TESTING

Materials and mixtures shall be tested in accordance with the appropriate Standard Specification when directed by the Engineer.

1.18. ALTERNATIVE MATERIALS

Where alternative specified materials are permitted, the Contractor shall inform the Engineer of his choice at least 4 weeks before the material is to be used, or longer if such period is required for testing of the material by the Engineer. The material shall not then be changed without the Engineers approval.

1.19. TIDY SITE ON COMPLETION OF WORK

On completion of the work the Contractor shall leave the site in a neat and tidy condition to the satisfaction of the Engineer. Carriageway and footpath surfaces shall be thoroughly swept and freed from mud and loose chippings. Boundary walls, fences and adjacent properties shall be cleaned of any splashings or dirt which may be attributed to the work on the contract and paintwork shall be touched up where it has been damaged due to the Contractor's activity.

SECTION BEXCAVATION, AND EARTHWORKS1.1. Nature of Ground

The Contractor shall visit the site and satisfy himself as to the general nature of the ground. It is assumed that foundations can be founded on suitable ground at depths not exceeding 1500mm below reduced ground level following general excavation of the site.

Only when the actual foundations have been excavated can the foregoing assumptions be confirmed, and it is, of course, possible that the design of the foundations may have to be altered if unexpected ground conditions are met.

1.2. Excavation

Excavation shall be to the dimensions and levels shown on the drawings or to such other dimensions and levels as required by the Engineers. Any excavation in excess of that required shall be backfilled with lean mix concrete or such other material, which may be approved by the Engineers, and compacted to their satisfaction.

Excavations for foundations in positions adjacent to existing buildings, roads, sewers and pathways shall be carried out in such a manner and in a sequence that any any time these buildings, roadways, sewers and pathways are not endangered by the excavation. Hand excavation shall be included for in the rates. All propping, shoring and methods of excavation must be discussed with the Engineers and have their approval prior to commencement of the work. Such approval by the Engineers will not relieve the Contractor in any way of his responsibility to ensure the safety of the workings and of adjacent buildings.

1.3. Additional Excavation

Any additional excavation required to accommodate the temporary support of sides of excavations shall be provided and backfilled at the Contractor's expense.

1.4. Strip Topsoil

Topsoil shall be excavated in the areas and to the depths required. Note that these depths vary over the site. The volume of topsoil to be preserved for re-use shall be stockpiled in temporary spoil heaps where directed. Topsoil shall be kept separate from other materials. Surplus topsoil shall be removed from site and taken either to the Contractor's own tip or to an area selected by the Client.

1.5. Classification of Excavation

Excavation shall be classified as:-

- (a) Excavation in any material except solid rock.
- (2) Excavation in solid rock.

Rock shall mean natural rock formation which can be removed properly only by means of explosives, boring or wedging or some other recognised method of quarrying solid rock. It shall also include solid boulders of 1 cubic metre or more, in volume. The Engineer shall be sole judge as to when the material excavated comes under the heading of rock. Where rock is encountered it will be measured up and included in the amount of ordinary excavation in the tender where it occurs and it will also be measured up and paid for at the EXTRA price over ordinary excavation as scheduled for rock in the tender.

1.6. Use of Explosives

Explosives shall not be used without the permission of the Engineer and then only in the manner and to the extent he may prescribe.

1.7. Obstructions

Any obstructions at or below formation level shall be reported to the Engineers and shall be dealt with as directed by them.

1.8. Formation

To minimise moisture softening the formation shall be exposed for as short a time as possible. The last 250m.m. of excavation shall not be taken out until concrete is almost ready to start. The formation shall be lightly rammed. Before any concrete is placed the Contractor shall call on the Engineers or their representative to inspect the formation. Formwork and excavation shall be clean and free from water at the time of placing concrete.

1.9. Planking and Strutting

The sides of excavations shall be planked and strutted in accordance with statutory requirements and to the approval of the Engineer.

1.10. Propping and Shoring

The Contractor will be held entirely responsible for the strength, adequacy and stability of any necessary propping, shoring, strutting and the like, and shall be responsible for making good any loss or damage resulting from any failure in this respect.

1.11. Pumping

The Contractor shall provide all pumping equipment and other works necessary to keep the excavation free of water and to prevent the direct access of water to the formation.

Excavation shall be so arranged that any water entering the cut is immediately drained away to a sump or other point from which it can be pumped or otherwise disposed of. Before any pumping takes place, especially near existing structure, the approval of the Engineers shall be sought, but this approval will not absolve the Contractor from his responsibility for the safety of existing structures. If the Contractor pumps or otherwise puts water into a drain, he shall be responsible for seeking all permissions and for removing from the system all deposits caused thereby.

1.12. Filling

Except under foundations, layers of approved filling material consolidated to the satisfaction of the Engineers shall be placed below all ground slabs, on top of which a layer of lean mix shall be placed, all to receive a 1000 g. Visqueen waterproof membrane placed as shown on the drawings. This fill shall be applied only when the formation level is free of mud and slurry, the formation left shall be exposed for as short a time as possible between removing unsuitable soil and applying the fillings. The formation level shall be lightly rammed and generally levelled before filling commences. Backfilling around pads, strip footings and retaining walls shall also be in this approved fill material.

Granular filling where specified shall comprise either of:-

gravels, crushed rock or crushed concrete, to the following gradings (by weight).

<u>SIZE</u>	<u>GRAVELS</u> (% passing)	<u>CRUSHED ROCK/CONCRETE</u> (% passing)
75m.m.	100%	100%
40m.m.	85-100	85-100
10m.m.	45-100	40-70
5m.m.	25-85	25-45
600 Microns	8-45	8-22
75 Microns	0-10	0-2

The Contractor shall supply a grading analysis, done by an independent testing authority, indicating compliance of the proposed filling material with this specification.

The filling shall be deposited in layers not exceeding 250m.m. when compacted and shall be at a moisture level content within the range of 5 -8% for gravel and not exceeding 5% for the crushed stone or concrete.

Each layer shall be compacted to the satisfaction of the Engineers with approved mechanical equipment.

1.13. Underpinning of Existing Walls

The Contractor shall be responsible for ensuring that his operations do not in any way impair the safety or conditions of existing structures or existing supports and shoring to them. He shall provide any temporary supports required for this purpose, and shall carefully inspect the condition of the structure both before and during execution of the work, and immediately inform the Engineer if he considers that any more stringent procedure than that specified is necessary.

Underpinning is to be carried out to the satisfaction of the Engineer and Local Authority in short sections generally not exceeding 1000 m.m. in length, in such a manner that adequate support is at all times maintained to the underside of the wall for at least three-quarters of its length and that sections of work in progress at any one time are separated by a distance of at least 4000 m.m.

Projecting portions of the existing brick and/or concrete footings are to be carefully cut off where directed, and the underside of the footings are to be cleaned and hacked free of any dirt, soil or loose material before underpinning.

The body of the underpinning is to be constructed in mass concrete mix Type A using Rapid Hardening Portland Cement, and is to be cast to the widths and depths shown on the drawings. The bottoms of excavations are to be prepared as specified for foundations generally.

Excavation and concreting of any section of underpinning shall be carried out on the same day.

The mass of the concrete shall be poured to a level which shall be a minimum of 225 m.m. above the underside of existing foundation. The concrete below the existing foundation shall be well compacted with a bent podger or other means so that the concrete penetrates all the gaps of the underside of the existing footing.

Any 'letterboxes' or similar used by the Contractor to place concrete in this fashion shall be removed after one day as may be necessary to achieve a flush outside surface. Such removal shall be effected without damage to the body of the underpinning concrete.

Alternatively -

The mass of the concrete shall be poured to a level 75m.m. below the underside of existing foundation. The concrete shall be well compacted with a bent podger or other means so that the concrete penetrates all the interstices of the underside of the existing footing. When the mass concrete has set, the final pinning up shall be carried out with a damp stiff Grade 30 concrete mix (using REPC) well rammed into the 15m.m. gap.

Excavation to any section of underpinning shall not be commenced until at least 48 hours after completion of any adjacent sections of the work.

The Contractor shall keep a record on site of the sequence and dimensions of underpinning as actually executed, including the dates of starting excavation, casting concret and pinning up for each section.

1.14. Protection

Protect as necessary, all work described in this section during the progress of the works and clean down and leave perfect on completion.

SECTION C.CONCRETE1. FORMWORK AND SURFACE FINISH.1.1. Construction

1 Formwork shall include all temporary or permanent forms required for forming the concrete together with all temporary construction required for their support.

2 All formwork shall be so constructed that there shall be no loss of material from the concrete. After hardening the concrete shall be in the position and of the shape, dimensions and surface finish described in the Contract.

3 Where internal metal ties are permitted, they or their removable parts shall be extracted without damage to the concrete and the remaining holes filled with mortar. No permanently embedded metal part shall have less than 35mm cover to the finished concrete surface.

1.2. Formed Surfaces - Classes of Finish.

1 The requirements extra to those given in Clause 1.1, to provide the class of finish described in the Contract shall be:

Class F1 Nil

Class F2 The irregularities in the finish shall be no greater than those obtained from the use of wrought thickened square edged boards arranged in a uniformed pattern. The finish is intended to be left as struck but imperfections such as fins and surface discolouration shall, if required, be made good by methods approved by the Engineer.

Class F3 The formwork shall be lined with a material approved by the Engineer to provide a smooth finish of uniform texture and appearance. This material shall leave no stain on the concrete and shall be so joined and fixed to its backing, that it imparts no blemishes. It shall be of the same type and obtained from only one source throughout any one structure. The Contractor shall make good any imperfections in the resulting finish, as required by the Engineer. Internal ties and embedded metal parts will be allowed only with the Engineer's specific approval.

2 The Contractor shall ensure that permanently exposed surfaces to Class F2 and F3 finish are protected from rust marks, spillage and stains of all kinds.

1.3. Preparation of Formwork before Concreting.

1 The inside surfaces of forms shall, except for permanent formwork, or unless otherwise agreed by the Engineer, be coated with an approved material to prevent adhesion of the concrete. Release agents shall be applied strictly in accordance with the manufacturer's instructions and shall not come into contact with the reinforcement or prestressing tendons and anchorages. Different release agents shall not be used in formwork to concrete which will be visible in the finished Works.

2 Immediately before concreting, all forms shall be thoroughly cleaned out.

1.4. Removal of Formwork.

1 The Engineer shall be informed in advance when the Contractor intends to strike any formwork.

2 Attention is drawn to the provisions of Clause 1.4.4

3 The time at which the formwork is struck shall be the Contractor's responsibility, but the minimum periods between concreting and the removal of forms shall be as follows:-

Sides of beams, walls columns and piles	24 hours.
Soffits of beams and slabs.	7 days.

4 The periods stated above are based on a constant surface temperature of the concrete of 16°C and the use of ordinary Portland cement. They shall be increased during cold weather as directed by the Engineer, and may be changed if other types of cement are used, subject to the Engineer's agreement.

5 Formwork shall be constructed so that the side forms of members can be removed without disturbing the soffit forms and, if props are to be left in place when the soffit forms are removed, these props shall not be disturbed during the striking.

6 For prestressed units the side forms shall be eased as early as possible and the soffit forms shall permit deformation of the member when the prestress is applied.

7 All formwork shall be removed without damage to the concrete.

8 Where it is intended that formwork is to be re-used, it shall be cleaned and made good to the satisfaction of the Engineer.

1.5. Unformed Surfaces - Classes of Finish.

1 Class U1 The concrete shall be uniformly levelled and screeded to produce a plain or ridged surface as described in the Contract. No further work shall be applied to the surface unless it is used as the first stage for a Class U2 or Class U3 finish.

2 Class U2 After the concrete has hardened sufficiently, the concrete Class U1 surface shall be floated by hand or machine sufficiently only to produce a uniform surface free from screed marks.

3 Class U3 When the moisture film has disappeared and the concrete has hardened sufficiently to prevent laitance from being worked to the surface, a Class U1 surface shall be steel-trowelled under firm pressure to produce a dense smooth uniform surface free from trowel marks.

1.6. Remedial Treatment of Surfaces.

1 Any remedial treatment to surfaces shall be agreed with the Engineer following inspection immediately after removing the formwork and shall be carried out without delay.

2 Any concrete, the surface of which has been treated before being inspected by the Engineer, shall be liable to rejection.

1.7. Tolerances.

On all setting out dimensions 3.00 metres and over a tolerance of plus or minus 6mm will be allowed. On all setting out dimensions under 3.00 metres a tolerance of plus or minus 3mm will be allowed. A tolerance of plus or minus 3mm will be permitted on the cross-section dimensions of structural members, unless otherwise required by the drawings. Columns and walls shall not be more than 6mm out of plumb in their storey height and not more than 19mm out of plumb in their full height. The Contractor will be responsible for the cost of all corrective measures required by the Engineer to rectify work which is not constructed within the tolerances set out above.

2. STEEL REINFORCEMENT.

2.1. GENERAL

1 Steel reinforcement shall be stored in clean conditions. It shall be clean and free from loose rust and loose mill scale at the time of fixing in position and subsequent concreting.

2.2. BENDING OF REINFORCEMENT.

1 Reinforcement shall be bent to the dimensions given in the Bar Schedules.

2 All reinforcement shall be bent at temperatures in the range of 5°C and 100°C.

3 Cold worked and hot rolled bars shall not be straightened or bent again once having been bent. Where it is necessary to bend mild steel reinforcement already cast in concrete, the internal radius of bend shall not be less than twice the diameter of the bar.

2.3. PLACING OF REINFORCEMENT.

1 Reinforcement shall be placed and maintained in the position shown in the Contract. Unless otherwise permitted by the Engineer all intersecting bars shall be tied together and the end of the tying wire shall be turned into the main body of concrete.

2 No splices shall be made in the reinforcement except where described in the Contract or where approved by the Engineer.

2.4. COVER BLOCKS.

1 Cover blocks required for ensuring that the reinforcement is correctly positioned, shall be as small as possible consistent with their purpose, of a shape acceptable to the Engineer, and designed so that they will not overturn when the concrete is placed. They shall be made of concrete with 10mm maximum aggregate size and the mix proportions shall comply with Table No 1 or 2 of Clause 3.1 to produce the same strength as the adjacent concrete. Wire shall be cast in the block for the purpose of tying it to the reinforcement.

2.5. WELDING OF REINFORCEMENT.

1 Reinforcement in structures shall not be welded except where permitted in the Contract. All welding procedures shall be subject to the prior approval of the Engineer in writing.

2.6. ATTENDANCE OF STEELFIXER.

During concreting a competent steelfixer shall be in continuous attendance on the concreters to adjust and correct the positions of any reinforcement which may be displaced.

2.7. STANDARDS.

All reinforcement shall comply with the current Irish and/or British Standards:

Mild Steel reinforcement	BS 785
Cold Worked square twisted reinforcement	BS 1144
Hard drawn steel wire fabric mesh.	BS 1221

3. CONCRETE

3.1. CONCRETE MIX DESIGN.

1 Mixes for the classes of concrete shown in Table No 1 shall be designed by the Contractor. Alternatively for Classes 30 and 20, the mixes in Table No. 2 may be used. The class of concrete is denoted by the minimum 28 day works cube strength and the maximum size of aggregate.

2 The cement content in any mix shall not exceed $530\text{kg}/\text{M}^3$ of concrete. The quantity of water used shall not exceed that required to produce a concrete with sufficient workability to be placed and compacted where required.

3.2. CONCRETE FOR ANCILLARY PURPOSES.

1 Class E concrete shall be composed of ordinary Portland cement and aggregates complying with BS 882 including all-in aggregate within the grading limits of Table 3 of the British Standard.

2 The weight of cement mixed with 0.28M^3 of combined or all-in aggregate shall not be less than 50.0kg . The mix shall be proportioned by weight or by volume.

3 The concrete shall be mixed by machine or by hand to a uniform colour and consistency before placing. The quantity of water used shall not exceed that required to produce a concrete with sufficient workability to be placed and compacted where required.

4 The concrete shall be compacted by hand or by mechanical vibration.

3.3. TRIAL MIXES.

1 No structural concrete shall be placed in the Works until the relevant mix has been approved by the Engineer.

2 When the Contractor designs the mix, he shall, at least 35 days before the commencement of concreting, have trial mixes prepared in a laboratory to be approved by the Engineer.

TABLE NO. 1. DESIGNED MIXES

Class	Minimum cement content in concrete	Minimum compressive strength 28 days after mixing		
		Preliminary test	Works test.	
$N/mm^2/mm$	Kg/M^3	N/mm^2	N/mm^2	N/mm^2
50/40	390	60.0	50.0	50.0
50/20	420	60.0	50.0	50.0
50/10	470	60.0	50.0	50.0
40/40	340	50.0	40.0	40.0
40/20	360	50.0	40.0	40.0
40/10	390	50.0	40.0	40.0
30/40	310	40.0	30.0	30.0
30/20	330	40.0	30.0	30.0
30/10	360	40.0	30.0	30.0
20/40	280	30.0	20.0	20.0
20/20	300	30.0	20.0	20.0

TABLE NO. 2 STANDARD MIXES

Class of concrete denoted by 28 day minimum works cube strength

Weight of dry gravel, or crushed rock, coarse aggregate, 50kg.

Weight of dry sand per 50 kg. cement

N/mm ²	Kg.	Maximum size			Maximum size			
		Low only	Low	Medium	High	Low	Medium	High
Workability								
Slump (m.m.)		0-6	12-25	25-50	50-120	25-50	50-100	100-175
Compacting Factor		.80-.86	.82-.88	.88-.94	.94-.97	.82-.88	.88-.94	.94-.97
30.0	70	100	150	115	90	180	140	115
20.0	90	Not required	190	160	140	225	190	170

NOTES

- 1 Cement shall comply with IS 1 or BS 12 or BS 146. Aggregate shall comply with IS 5 or BS 882 or BS 1047. The coarse aggregate shall be graded within the terms of the relevant IS or BS.
- 2 If the specific gravity of either the coarse or the fine aggregate differs significantly from 2.6, the weight of each type of aggregate should be adjusted in proportion to the specific gravity of the materials.
- 3 The weights are based on the use of a sand having a grading within the limits of grading Zone 2 in BS 882. See Clause 209e of CP114.
- 4 If a crushed stone sand or a crushed gravel sand is used instead of sand, the weight of the coarse aggregate should be reduced by at least 12 Kg without altering the weight of sand.
- 4 The weight of the fine aggregate should be decreased by at least 12Kg if its grading is within the limits of grading Zone 3 of BS 882 and increased by at least 12Kg if its grading is within the limits of grading Zone 2 of BS 882; the weight of coarse aggregate should be increased or decreased respectively, by the same amount so that the total weight of aggregate remains the same.

TRIAL MIXES - continued

The concrete from each mix shall be tested in accordance with Clause 3.8 and must satisfy the strength requirements of Table No. 1.

3 When the mix has been approved, no variations shall be made in the proportions, the original source of the cement and aggregates or in the type, size and grading zone of the latter without the consent of the Engineer who may require further tests to be made.

4. The Engineer may also require practical tests to be made on the Site by filling trial moulds to confirm the suitability of the mix for the Works. In these tests, the type of plant used for mixing, the method of compaction used, and the formwork face to the mould shall be similar in all respects to those intended for use in the Works.

5 When the Contractor intends to purchase factory-made pre-cast concrete units, the Engineer may dispense with trial mixes and laboratory tests, provided that evidence is given which satisfies him that the factory regularly produces concrete which complies with the Specification. The evidence shall include details of mix proportions, water: cement ratio, workability and strengths obtained at 28 days and 7 days.

3.4. ADMIXTURES.

1 Unless agreed by the Engineer neither admixtures nor cement containing additives shall be used.

3.5. DELIVERY AND STORAGE OF MATERIALS.

1 Cement shall be stored in a dry weather-proof shed with a raised wooden floor or in a silo and shall be delivered in quantities sufficient to ensure that there is no suspension or interruption of the work of concreting at any time. If stored in sheds, each consignment shall be kept separate and distinct.

2 Coarse aggregate, unless otherwise agreed by the Engineer, shall be delivered to the Site in separate sizes (2 sizes when the maximum size is 20mm and 3 sizes when the maximum size is 40mm or more).

3 All aggregate brought upon the Site shall be kept free from contact with deleterious matter and in the case of aggregate passing a 5mm sieve they shall be deposited on the site of mixing for not less than 8 hours before use. Aggregates of different sizes shall be stored in different hoppers, or different stockpiles which shall be separated from each other.

3.6. MIXING CONCRETE.

1 The weighing and water-dispensing mechanisms shall be maintained in good order. Their accuracy shall be maintained within the tolerances described in BS 1303 and checked against accurate weights and volumes when required by the Engineer.

2 The weights of cement and each size of aggregate as indicated by the mechanisms employed shall be within a tolerance of ± 2 per cent of the respective weights per batch agreed by the Engineer. The weight of the fine and coarse aggregates shall be adjusted to allow for the free water contained in them. The water to be added to the mix shall be reduced by the quantity of the free water contained in the fine and coarse aggregates, which shall be determined by the Contractor by a method approved by the Engineer immediately before mixing begins, and further as the Engineer requires.

3 Unless otherwise agreed by the Engineer, concrete shall be mixed in a batch type mixer manufactured in accordance with BS 1305 or in a batch type mixer, a specimen of which has been tested in accordance with BS 3963 and having a mixing performance within the limits of Table 6 of BS 1305. Where appropriate the batch capacity, method of loading, mixing time and drum speed shall conform to the details furnished in accordance with the requirements of BS 3963 for the mix which corresponds most closely to the mix proportions being used. The mixing blades of pan mixers shall be maintained within the tolerances specified by the manufacturer of the mixer and the blades shall be replaced when it is no longer

possible to maintain the tolerances by adjustment.

4 Mixers which have been out of use for more than 30 minutes shall be thoroughly cleaned before any fresh concrete is mixed. Unless otherwise agreed by the Engineer, the first batch of concrete through the mixer shall then contain only two thirds of the normal quantity of coarse aggregate. Mixing plant shall be thoroughly cleaned before changing from one type of cement to another.

5 Concrete shall not be mixed when the air temperature in the shade is below 3°C unless special precautions are taken which have been approved by the Engineer. No frozen material or materials containing ice shall be used.

6 During hot weather the Contractor shall ensure that the constituent materials of the concrete are sufficiently cool to prevent the concrete from stiffening in the interval between its discharge from the mixer and compaction in its final position.

3.7. READY-MIXED CONCRETE.

1 Ready-mixed concrete as defined in BS 1926, batched off the Site, may be used only with the agreement of the Engineer and shall comply with all requirements of the Contract.

2 The concrete shall be carried in purpose made agitators, operating continuously, or truck mixers. The concrete shall be compacted and in its final position within 2 hours of the introduction of cement to the aggregates, unless a longer time is agreed by the Engineer. The time of such introduction shall be recorded on the Delivery Note together with the weight of the constituents of each mix.

3 When truck mixed concrete is used, water shall be added under supervision either at the Site or at the central batching plant as agreed by the Engineer but in no circumstances shall water be added in transit.

4 Unless otherwise agreed by the Engineer, truck mixer units and their mixing and discharge performance shall comply with the requirements of BS 4251. Mixing shall continue for the number and rate of revolutions recommended in accordance with item 9 in Appendix B of BS 4251 or, in the absence of the manufacturer's instructions, mixing shall continue for not less than 100 revolutions at a rate of not less than 7 revolutions per minute.

3.8. SAMPLING

Sampling shall be in accordance with the requirements of BS 1881. Cubes for the works tested shall be made by the Contractor at regular intervals in groups of six. The location and time of such samples shall be agreed with the Engineer.

The Cubes shall be tested by the Nominated Testing Authority, three at 7 days and three at 21 days where Portland cement is used.

3.9. TRANSPORT AND PLACING.

1 The method of transporting and placing concrete shall be to the approval of the Engineer. Concrete shall be so transported and placed that contamination, segregation or loss of the constituent materials does not occur.

2 All formwork and reinforcement contained in it shall be clean and free from standing water, snow or ice immediately before the placing of the concrete.

3 Concrete shall not be placed in any part of the structure until the Engineer's approval has been given.

4 If concreting is not started within 24 hours of approval being given, approval shall again be obtained from the Engineer. Concreting shall then proceed continuously over the area between construction joints. Fresh concrete shall not be placed against in-situ concrete which has been in position for more than 30 minutes unless a construction joint is formed in accordance with Clause 311. When in-situ concrete has been in place for 4 hours no further concrete shall be placed against it for a further 20 hours.

5 Concrete when deposited shall have a temperature of not less than 5°C and not more than 32°C. It shall be compacted in its final position within 30 minutes of discharge from the mixer unless carried in purpose made agitators, operating continuously, when the time shall be within 2 hours of the introduction of cement to the mix and within 30 minutes of discharge from the agitator.

6 Except where otherwise agreed by the Engineer, concrete shall be deposited in horizontal layers to a compacted depth not exceeding 450mm where internal vibrators are used or 300mm in all other cases.

7 Unless otherwise agreed by the Engineer, concrete shall not be dropped into place from a height exceeding 1,800mm. When trucking or chutes are used they shall be kept clean and used in such a way as to avoid segregation.

8 No concrete shall be placed inflowing water. Underwater concrete shall be placed in position by tremies, or by pipeline from the mixer. Full details of the method proposed shall be submitted in advance to the Engineer and his approval obtained before placing begins. Where the concrete is placed by a tremie, its size and method of operation shall be in accordance with Civil Engineering Code of Practice 'Foundations'. During and after concreting under water, pumping or dewatering operations in the immediate vicinity shall be suspended until the Engineer permits them to be continued.

3.10. COMPACTION OF CONCRETE.

1 All concrete shall be compacted to produce a dense homogeneous mass. Unless otherwise agreed by the Engineer, it shall be compacted with the assistance of vibrators. Sufficient vibrators in serviceable condition shall be on site so that spare equipment is always available in the event of breakdown.

2 Internal vibrators shall be capable of producing not less than 10,000 cycles per minute, and external vibrators not less than 3,000 cycles per minute.

3 Vibration shall not be applied by way of the reinforcement. Where vibrators of the immersion type are used, contact with reinforcement and all inserts shall be avoided, so far as is practicable.

4 Concrete shall not be subjected to vibration between 4 and 24 hours after compaction.

3.11. CONSTRUCTION JOINTS.

1 The position and detail of any construction joints not described in the Contract shall be subject to the approval of the Engineer, and shall be so arranged as to minimise the possibility of the occurrence of shrinkage cracks. The maximum dimension of any pour shall be approx. 9m.

2 The upper surface of lifts of concrete walls and columns shall be horizontal and if the formwork extends above the joint on the exposed face it shall be cleaned of adhering concrete before the next lift is placed. The concrete placed immediately above a horizontal construction joint shall contain only two thirds the normal quantity of coarse aggregate, shall not be the first batch through the mixer and shall be thoroughly compacted and worked against the existing concrete

3 In the case of vertical surfaces, a 1:1 slurry of cement and concreting sand shall, wherever possible, be well worked into them immediately before the fresh concrete is placed.

4 Where sections of the work are carried out in lifts, the reinforcement projecting above the lift being cast shall be adequately supported so as to prevent movement of the bars during the casting and settling of the concrete.

5 Wherever possible laitance and all loose material shall be removed while the concrete is still green and no further roughening shall then be required. Where this is not possible, it shall be removed by mechanical means provided the concrete has been in position for more than 24 hours. The roughened surface shall then be washed with clean water.

6 Where joints occur in waterproof concrete the stop ends shall be removed within 12 hours after pouring and the laitance removed by compressed air and water jet to the satisfaction of the Engineer. In waterproof structures no pour shall exceed 50 sq. m in area.

3.12. CURING OF CONCRETE.

1 Immediately after compaction and for 7 days thereafter concrete shall be protected against harmful effects of weather, including rain, rapid temperature changes, frost and from drying out. The methods of protection used shall be subject to the approval of the Engineer. When elevated-temperature curing is used, the temperature of the concrete shall not exceed 50°C within 2 hours nor 100°C within 6 hours of the concrete being placed; the rise in temperature within any period of 30 minutes shall not exceed 10°C. The rate of subsequent cooling shall not exceed the rate of heating. The method of curing employed shall prevent loss of moisture from the concrete. Details of the method to be used shall be subject to the approval of the Engineer.

3.13. EARLY LOADING

1 Except as specified for prestressed concrete, concrete shall at no time be subjected to loading, including its own weight, which will induce a compressive stress in it exceeding 0.33 of its compressive strength at the time of loading or of the specified 28 day strength.

2 For the purpose of this clause, the assessment of the strength of the concrete and the stresses produced by the loads shall be subject to the agreement of the Engineer.

3.14. WATERPROOF CONCRETE (i.e. BASEMENT RETAINING/WALLS AND FLOORS DESIGNED IN COMPLIANCE WITH CP 102)

When the use of waterproof concrete is specified, it shall be the Contractor's responsibility to ensure that the resulting construction is watertight. The Contractor shall carry out at his own cost all necessary remedial measures which the Engineer requires.

3.15. INSPECTION

Inspection of reinforcement and formwork prior to concreting: no concrete shall be poured until the reinforcement has been checked in its final position in the formwork by the Engineer. Sufficient notice shall be given to allow such inspection to take place. Before starting to pour concrete all the reinforcement for that pour shall be in position and properly fixed.

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/1652

Date : 17th October 1991

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

Dear Sir/Madam,

DEVELOPMENT : Relocate 1,000 gallon diesel oil storage tank and bund enclosure at side

LOCATION : Unit No. C.1 Ballymount Drive, Lr. Ballymount Road,
Walkinstown

APPLICANT : Nicholas Laboratories Ltd

APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to the above, I acknowledge receipt of your application received on 16th October 1991.

Yours faithfully,

.....

for PRINCIPAL OFFICER

Integrated Development Services Ltd
146 Lower Drumcondra Road,
Drumcondra,
Dublin 9.



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 Unit C.1, Ballymount Drive, Ballymount Road, Dublin, 12
(If none, give description sufficient to identify)

3. Name of applicant (Principal not Agent) Nicholas Laboratories Ltd.,
Address Unit C.1, Ballymount Drive, Ballymount Rd., Dublin 12 Tel. No. 503911

4. Name and address of Integrated Development Services Ltd., 146 Lower Drumcondra Road,
person or firm responsible Drumcondra, Dublin. Tel. No 370936
for preparation of drawings

5. Name and address to which As 4 Above.
notifications should be sent

6. Brief description of Relocation of 1,166 gallon diesel oil tank.
proposed development

7. Method of drainage N/A 8. Source of Water Supply N/A

9. In the case of any building or buildings to be retained on site, please state:-
(a) Present use of each floor Industrial / Office.
or use when last used.
(b) Proposed use of each floor Industrial / Office.

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

11. (a) Area of Site C. 2040 Sq. m.
(b) Floor area of proposed development N/A Sq. m.
(c) Floor area of buildings proposed to be retained within site N/A Sq. m.

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

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

14. Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:
AS FAR AS POSSIBLE

15. List of documents enclosed with SEE LETTER OF APPLICATION.
DUBLIN 12 Nicholas Laboratories Ltd seek permission to relocate 1,000 gallon diesel oil storage tank and bund enclosure at side of Unit No C.1 Ballymount Drive, 12 Ballymount Rd. Walkinstown.

16. Gross floor space of proposed development (See back) N/A Sq. m.
No of dwellings proposed (if any) None Class(es) of Development 4C
Fee Payable £ 110.00 Basis of Calculation £40.00 planning, £70.00 bye law.
If a reduced fee is tendered details of previous relevant payment should be given

Signature of Applicant (or his Agent) [Signature] Date 15/10/91

Application Type P/B FOR OFFICE USE ONLY
Register Reference 91A/1652
Amount Received £
Receipt No 22-1
Date

Irish Press 9/10/91

*440 16/10
N 50923
470 N 50385*

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

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

1. Name and Address of applicant.
2. Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.
3. The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.
 - (a) The address of the structure or the location of the land.
 - (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
 - (c) The name of the applicant.

NB. Applications must be received within 2 weeks from date of publication of the notice.
4. Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1:2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.
5. In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are:
 - (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.
 - (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.
 - (ii) A layout and a survey plan of each floor of any structure to which the application relates.
 - (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.
6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

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

INDUSTRIAL DEVELOPMENT:

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

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

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 APPLICATIONS

CLASS NO.	DESCRIPTION	FEE
A	Dwelling (House/Flat)	£55.00 each
B	Domestic Extension (improvement/alteration)	£30.00 each
C	Building — Office/Commercial Purposes	£3.50 per m ² (min. £70.00)
D	Agricultural Buildings/Structures	£1.00 per m ² in excess of 300 sq. metres (min. - £70.00) (Max. - £300.00)
E	Petrol Filling Station	£200.00
F	Development or Proposals not coming within any of the foregoing classes.	£9.00 per 0.1 ha (£70.00 min.)
		Min. Fee £30.00 Max. Fee £20,000

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

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls. For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.

RECEIPT CODE

COMHAIRLE CHONTAE ÁTHA CLIATH

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

PAID BY
CASH
CHEQUE
M.O.
B.C.
I.T.

REC. NO. N 50385

£ 70.00

Received this 16th day of October 1991

from Integrated Dev. Services Ltd,
146 Lower Drumcondra Rd,
D.9

the sum of seventy Pounds

Pence, being fee for bye-law application at Unit Ct. Ballymount

Drive
Noelces Deane Cashier

S. CAREY
Principal Officer

Class A

COMHAIRLE CHONTAE ÁTHA CLIATH

RECEIPT CODE

PAID BY

DUBLIN COUNTY COUNCIL

CASH

46/49 UPPER O'CONNELL STREET,

CHEQUE

DUBLIN 1.

M.O.

B.L.

I.T.

N 50903

E 40.00

Received this

16th

day of

October

1991

from

Integrated Dev. Services Ltd

146 Lower Drumcondra Rd

D 9

the sum of

forty

Pounds

Pence being

two pence

planning application at

Unit C1

Ballymount Drive

Moolen Lane

Cashier

S. CAREY

Principal Officer

16/10/91

Integrated Development Services Ltd.

Property Acquisition and Development Consultants.

146 Lower Drumcondra Road, Dublin 9, Ireland. Telephone: (01) 370936, 379362, 360033. Fax: (01) 369303.

Principal Officer,
Dublin Co. Council,
Planning Department,
Irish Life Centre,
Lower Abbey St.,
Dublin, 1.

15th October, 1991.

RE; RELOCATION OF 1,166 GALLON OIL STORAGE TANK AT UNIT C.1, BALLYMOUNT DRIVE, BALLYMOUNT INDUSTRIAL ESTATE FOR NICHOLAS LABORATORIES LTD.

Dear Sir,

On behalf of Nicholas Laboratories Ltd. we apply for planning permission and bye law approval on the above. Structural calculations will be forwarded as soon as possible.

We enclose the following;

1 No. Copy;

- Newspaper Advert. Irish Press 9/10/91.
- Completed Application Form.
- Cheque in the amount of £110.00.

4 No. Copies;

- Drawing No. 61391/3 ; Site Location Map.
- Drawing No. 61391/2A; Bund wall, Sections and Plan.
- Drawing No. 61391/1 ; Plans and Elevations Units C1 & C2 and Relocated Oil Tank.

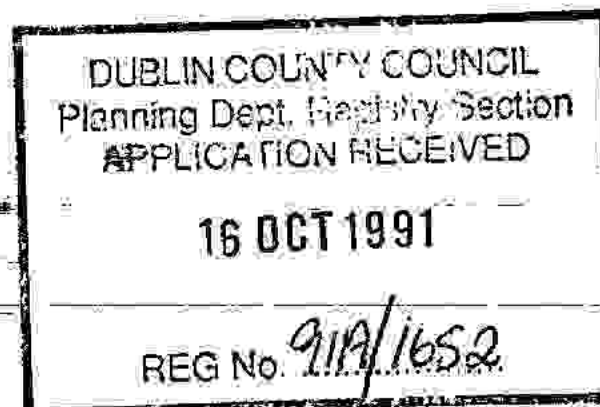
Due to continuous vandalism our clients Nicholas Laboratories Ltd. wish to relocate their oil storage from the 3 no. tanks at the rear of the block of units to a 1,166 gallon tank in an area directly in front of the unit itself.

A further reason for the relocation is the Section 12 Notice received from Dublin Co. Council Engineering Department, Sanitary Services Section and the fact that the underground oil pipes have apparently failed and obviously cannot be replaced as they pass under factory units not in our clients ownership.

Our proposal is, we feel, the best option to eliminate vandalism and ground pollution.

Yours faithfully,

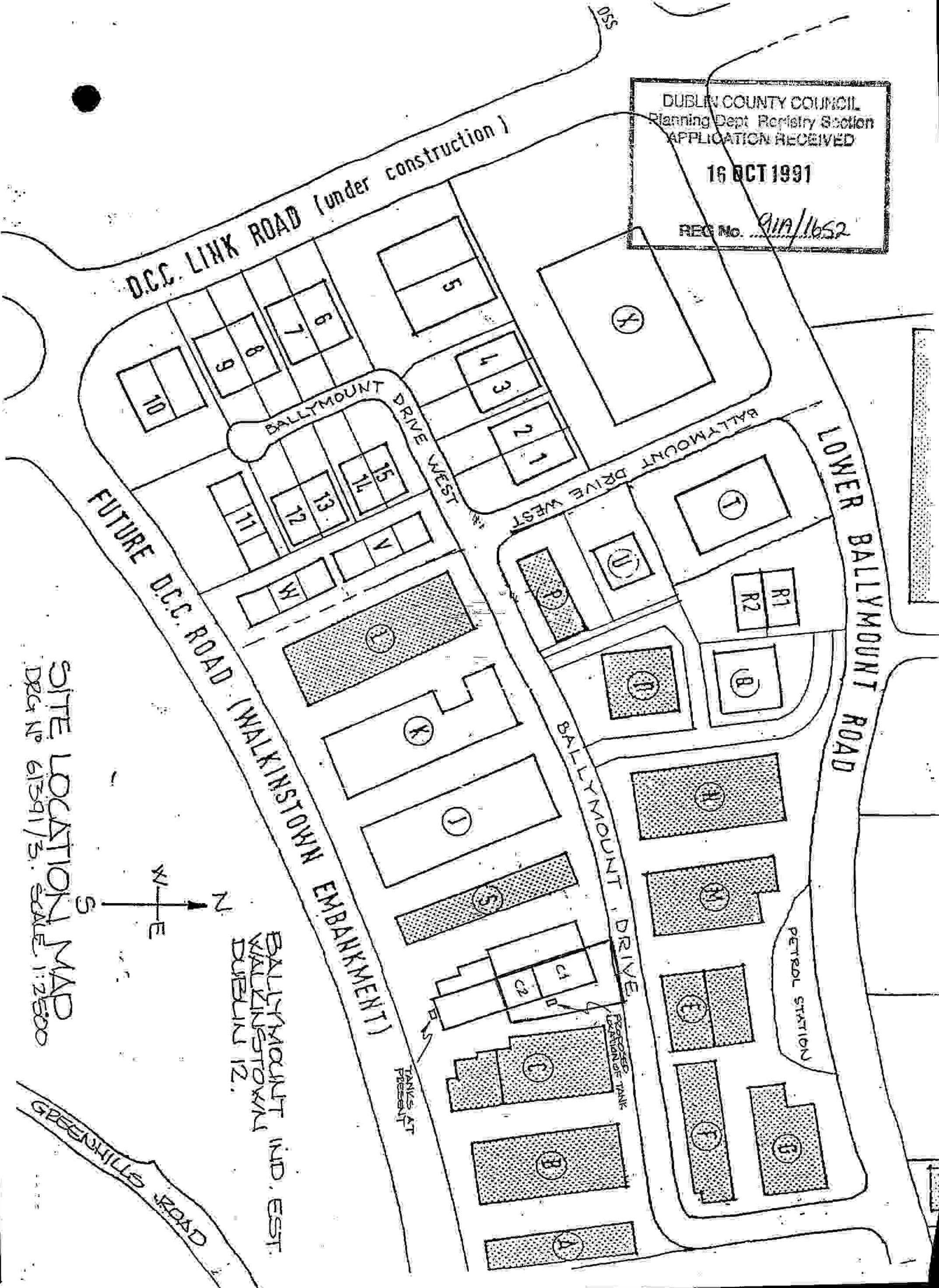

KEVIN J. HAMELL
for INTEGRATED DEVELOPMENT SERVICES.



ENCLS.

c.c. Nicholas Laboratories.

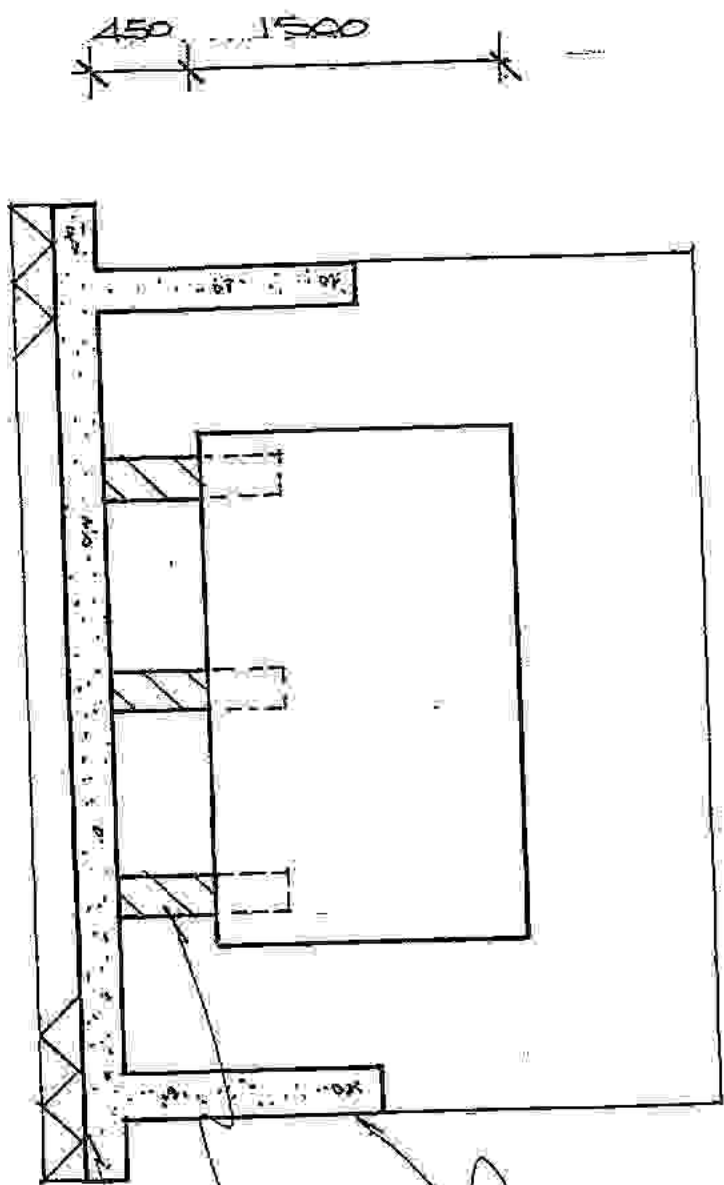
DUBLIN COUNTY COUNCIL
 Planning Dept Registry Section
 APPLICATION RECEIVED
 16 OCT 1991
 REG No. *91A/1652*



SITE LOCATION MAP
 DRG No 61391/3. SCALE 1:2500

BALLYMOUNT IND. EST.
 WALKINSTOWN
 DUBLIN 12.

GREENHILLS ROAD

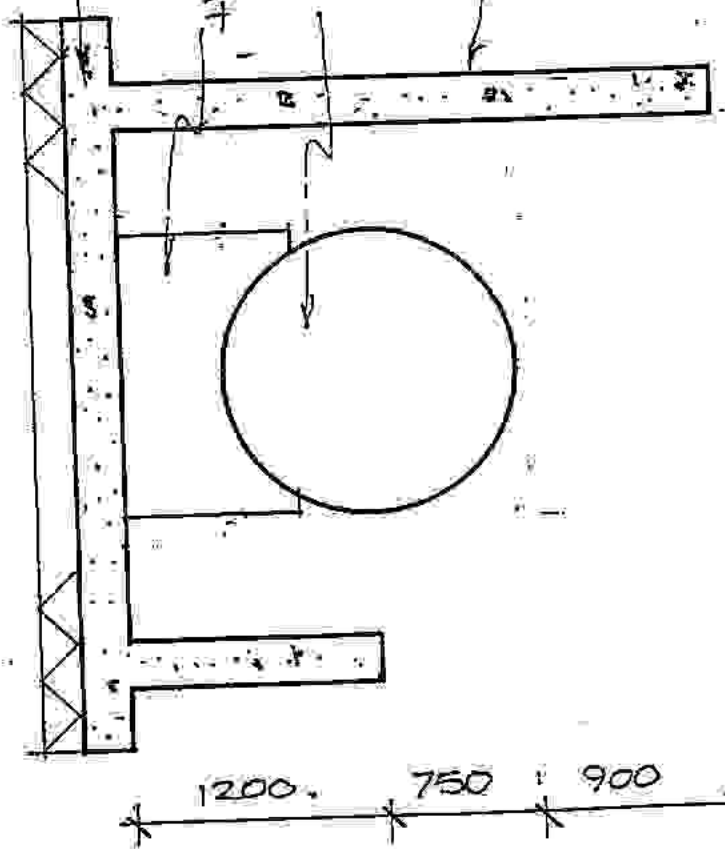


225 MM IN-SITU RC WALLS

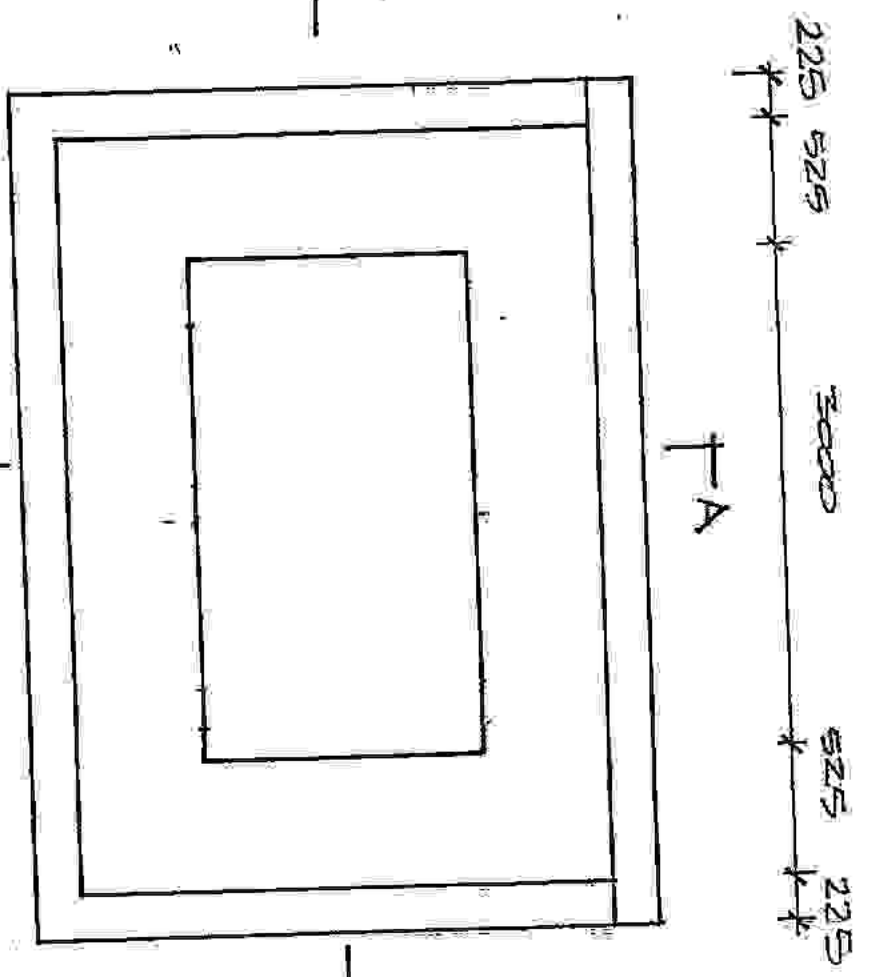
1166 GALLON OIL STORAGE TANK. 1.15M Ø 5M LONG.

SOLID CONCRETE BLOCK STRESS WALLS, BEDDED IN A SAND/CEMENT MORTAR.

225 IN-SITU R.C. SLAB ON 225 MM WELL COMPACTED HARDWARE.



SECTION A-A



SECTION B-B

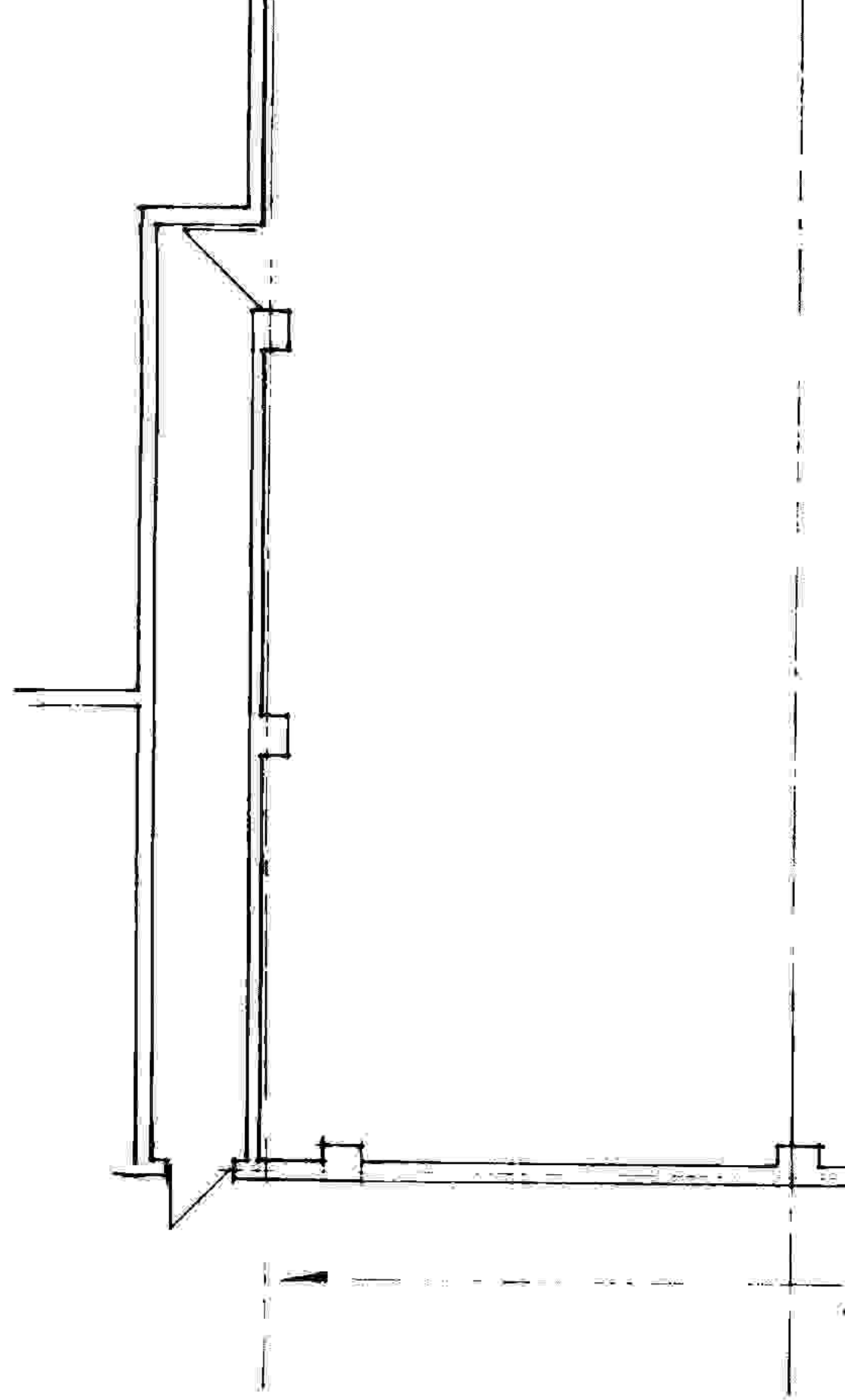
DUBLIN COUNTY COUNCIL
 Planning Dept. Registry Section
 APPLICATION RECEIVED
 16 OCT 1991
 REG No. 91A/1652.

IN-SITU R.C. BLIND WALLS, FLOOR SLAB
 ETC. TO STRUCTURAL ENGINEER'S
 DESIGN.

No	REVISION	DATE
X	TANK SIZE & SHAPE AMENDED	10/91

INTEGRATED DEVELOPMENT SERVICES
 145 LOWER DUBLIN ROAD D19
 CLIENT: NICHOLAS LABORATORIES
 DGS TITLE: PROPOSED NEW OIL TANK & BLIND
 WALL, PLAN & SECTIONS
 DRA N° 61391/2A SCALE 1:50 DATE 10/91

PLAN



GROUND FLOOR PLAN 1:100

905 HIGH RIGID WALL
CAST IN BASE SLAB.

