

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/0985

Date : 18th June 1991

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

Dear Sir/Madam,

DEVELOPMENT : Electrical building including transformers and switch
rooms and material storage silos

LOCATION : Unit 5 Westgate Business Park, Ballymount Road Upper

APPLICANT : Caraplas Ltd

APP. TYPE : PERMISSION

With reference to above, I acknowledge receipt of your application received
on 14th June 1991.

Yours faithfully,

.....
PRINCIPAL OFFICER

P.C. O'Grady Associates,
Architects,
4 Cecilia Street,
Dublin 2.



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 5 WESTGATE BUSINESS PARK
 (If none, give description sufficient to identify) DUBLIN 24 BYE LAW APPLICATION

3. Name of applicant (Principal not Agent) CARA PLAS. LTD. 170 N41611
 Address C/O. P.C.O GRADY ASSOC. Tel. No. _____

4. Name and address of P.C.O GRADY ASSOCIATES ARCHITECTS
 person or firm responsible A. CECILIA STREET DUBLIN 2 Tel. No. 775907
 for preparation of drawings

5. Name and address to which P.C.O GRADY ASSOCIATES ARCHITECTS
 notifications should be sent A. CECILIA STREET DUBLIN 2

6. Brief description of proposed development (A) ELECTRICAL DISTRIBUTION BUILDINGS (B) STORAGE TANKS

7. Method of drainage _____ 8. Source of Water Supply _____

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 LIGHT INDUSTRY
 (b) Proposed use of each floor SAME N41242

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 _____ Sq. m.
 (b) Floor area of proposed development 182 Sq. m.
 (c) Floor area of buildings proposed to be retained within site _____ Sq. m.

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

13.Are you now applying also for an approval under the Building Bye Laws? YES FOR (A)
 Yes No Place in appropriate box. NO FOR (B)

14.Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:
TO THE FULLEST EXTENT.

15.List of documents enclosed with A SETS A AND DRAWINGS

1 NO PLANNING ADVERT
1 NO LETTER / CHEQUE

16. Floor space of proposed development (See back) 182 Sq. m.

No of dwellings proposed (if any) _____ Class(es) of Development 7 PLANNING

Fee Payable £ 100.00 Basis of Calculation F.B.B.L.

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

Signature of Applicant (or his Agent) John O'Spina Date 14 June 1991

Application Type P FOR OFFICE USE ONLY

Register Reference 91A/0985

Amount Received £ 2.16.4 14/6

Receipt No _____

Date _____

13/6/91

DUBLIN 24 - permission sought for electrical building including transformers and switch rooms, and material storage silos at Unit 5, Westgate Business Park, Ballymount Road Upper, for Caraplas Ltd.

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.

COMHAIRLE CHONTAE ATHA CLIATH

PAID BY **DUBLIN COUNTY COUNCIL**

CASH **46/49 UPPER O'CONNELL STREET,**

CHEQUE **DUBLIN 7.**

N 41611

Received this 14 day of Dec 1971

from D J C O'Grady
4 Castillon Street

the sum of Seven Pounds

Pence being 00

application of U.S. Washworks Ltd

McNamee Cashier

S. CAREY
Principal Officer

COMHAIRLE GHONTAE ATHA CLIATH

DUBLIN COUNTY COUNCIL

86/89 UPPER O'CONNELL STREET

DUBLIN 1

PAID BY
CASH
CHECK
M.O.
B.L.
T

IN 41242

Received this _____ day of _____ 19__

from _____

the sum of _____ Pounds

Pence being _____

for _____

[Signature]
Cashier

[Signature]
S. CAREY
Principal Officer

P.C.
O'GRADY
ASSOCIATES

ARCHITECTS
&
PLANNING
CONSULTANTS

CECILIA HOUSE
4 CECILIA STREET
DUBLIN 2.

TEL:
6793690
775907

VAT NO:
9F71410E

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

14th June, 1991.

DUBLIN COUNTY COUNCIL
PLANNING Dept. Reg. No.
APPLICATION

14 JUN 1991

Re: Unit No. 5 Westgate Business Park,
Ballymount, Dublin 12.
Reg. Ref. 90A 970

REG NO. 91A/0985
APPLICATION TYPE O/P/A
NO L D 3

Dear Sir,

On behalf of my Clients, Caraplas Ltd, I wish to
apply for Planning Permission for

- (a) An electrical distribution building.
- (b) 3 No. material storage silos.
at the above premises.

My clients, who are engaged in the plastic manufacturing
business require these facilities to enable them to
establish their business which is I.D.A. sponsored.

The structures will be sheeted with "Plastisol" metal
sheeting of similar shade to that of the factory units.

The electrical distribution building comprises three
E.S.B. transformers and associated metering and swichgear
to cater for the electrical manufacturing process within the
factory.

The three silos are for the storage of the raw material,
which is a plastic bead which will subsequently be made into
a sheet material. It is envisaged that one silo will be
built immediately and that two further silos will be added as
the business develops.

If there are any queries we shall be pleased to attend to
discuss these proposals in detail with you.

Yours faithfully,

John C. O'Grady

John C. O'Grady.

J.C. O'GRADY
Dip Env Econ. M.I.Arch.S.

P.C. O'GRADY
E.F.A.S. M.I.Arch.S.
Consultant.

P.S. B.B.L. Approval ESSENT ALSO FOR
(a) ELECTRICAL DISTRIBUTION BUILDING ONLY

COMHAIRLE CHONTAE ATHA CLIATH

DUBLIN COUNTY COUNCIL

INCORRECT FEE WITH BYE LAW APPLICATION

TELEPHONE: 724755

EXTENSION: 231/234

FAX.: 724896

PLANNING DEPARTMENT,

IRISH LIFE CENTRE,

LOWER ABBEY STREET,

DUBLIN 1.

P. C. O'Grady Associates,

Architects.

4 Cecilia Street.

Dublin 2.

15/7/91

REG. REF.: 91A/0985

RE: Electrical Distribution Building and storage silos at Unit 5, Westgate Business Park,
Dublin 2, for Ceraplas Ltd.

Dear Sir/Madam,

I refer to your application for Bye Law approval in respect of the above proposal. I wish to inform you that the Planning Authority will not commence to consider the application until the appropriate fee is paid. If no fee or a fee less than the appropriate fee has been received by the County Council on the expiration of two months, commencing on the day the application is received, the application will be regarded as having been withdrawn.

The correct fee for the above mentioned application is £ 329.00.

Please quote the Register Reference No. stated above when submitting the fee.

AMOUNT LODGED = £234.25

AMOUNT DUE = £ 94.75

Yours faithfully,


for PRINCIPAL OFFICER

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

ASSESSMENT OF FINANCIAL CONTRIBUTION


EG. REF: 91A/985.

CONT. REG.:

SERVICES INVOLVED: WATER/FOUL SEWER/SURFACE WATER

AREA OF SITE:

LOCAL AREA OF PRESENT PROPOSAL: 1003.76 sqft

MEASURED BY: 

12/7/81

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT

MANAGER'S ORDERED NO: P/

DATED

ENTERED IN CONTRIBUTIONS REGISTER:

DEVELOPMENT CONTROL ASSISTANT GRADE

REF. NO.: 91A/0985 CERTIFICATE NO.: 15445 B
 PROPOSAL: Electrical Distribution Buidy + Storage Silo
 LOCATION: Unit 5 Westgate Business Park D-24
 APPLICANT: Carablen 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	93.075 m² Building for office or other comm. purpose <u>171.0 m²</u>	@ £3.50 per M ² or £70	<u>329</u> 114.50 <u>50.50</u> + 70		<u>259</u> 114.50 <u>50.50</u>		<u>234.75 paid</u> <u>N45281</u> <u>12/7/91</u>
D	Building or other structure for purposes of agriculture	@ £1.00 per M ² in excess of 300 M ² Min. £70					<u>Balance due: £24.75</u> <u>2475 2/7</u> <u>N45336</u>
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>Bye-law Approval not kept sight for</u> <u>silos as per call</u> <u>phone to follow</u> <u>letter recd 23/1/91</u>

* Area of Proposed Portion As Imposed

Column 1 Certified: Signed: [Signature] Grade: D/TC Date: 21/6/91
 Column 1 Endorsed: Signed: [Signature] Grade: 4 Date: 2/7/91
 Columns 2,3,4,5,6 & 7 Certified: Signed: [Signature] Grade: S.O Date: 20/6/91
 Columns 2,3,4,5,6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

9/11/1985

CERTIFICATE NO: 25677

Electrical Distributor Bldg + Storage Subs
Unit 5 Westgate Business Park, D2
Carrollton, Md

1	2	3	4	5	6	7
DWELLINGS/AREA LENGTH/STRUCT	RATE	AMT. OF FEE REQ.	AMOUNT LOGGED	BALANCE DUE	BALANCE DUE	DATE/ RECEIPT NO.
Dwellings	8332					
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* 93.25 m2
171.0m

164.50
~~229.25~~ / 100

64.50
~~129.25~~

64.50 paid
N 44184 12/4

100
NIL
100

100.00 paid
N 44184 12/4

* Area 4 Proposed part A temporary

[Signature]

DHR 2/6/91

DHL 12/7/91

S.O. 10/6/91

Copies 2, 3, 4, 5, 6 & 7 Certified Signed
Copies 2, 3, 4, 5, 6 & 7 Enclosed Signed

LOCATION GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1962

ASSESSMENT OF FINANCIAL CONTRIBUTION

EG. REF. : 91A/985

FORM REG. :

SERVICES INVOLVED: WATER/POUR SEWER/SURFACE WATER

REA. OR. SITE:

FLOOR AREA OF PRESENT PROPOSAL: 1841 FT²

MEASURED BY:

J. Y
21/6/91.

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT

ANAGER'S ORDERED NO. / DATE / TIME

DATED

ENTERED IN CONTRIBUTIONS REGISTER:

DEVELOPMENT CONTROL ASSISTANT

Register Reference : 91A/0985

Date : 25th June 1991

Development : Electrical building including transformers and switch rooms and material storage silos

LOCATION : Unit 5 Westgate Business Park, Ballymount Road Upper

Applicant : Caraplas Ltd

App. Type : PERMISSION

Planning officer : N.O'BYRNE

Date Recd. : 14th June 1991

DUBLIN COUNTY COUNCIL
31 JUL 1991
ENVIRONMENTAL HEALTH

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

Yours faithfully,

Paul Nolan

PRINCIPAL OFFICER

No objections provided compliance with
1 Safety in Industries Acts 1955-80
2 Health Safety + Welfare at work Act 1989.
Note: Water supply not indicated on plan.

Jackie Kelly
6/8/91. 245

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 20.08.91
Time 4.00

John Healy 6/8/91

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

SS + EHO

Ⓜ

Register Reference : 91A/0985

Date : 25th June 1991

Development : Electrical building including transformers and switch rooms and material storage silos

LOCATION : Unit 5 Westgate Business Park, Ballymount Road Upper

Applicant : Caraplas Ltd

App. Type : PERMISSION

Planning Officer : N.O'BYRNE

Date Recd. : 14th June 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 Tobin

DUBLIN Co. COUNCIL
27 JUN 1991
SAN SERVICES

PRINCIPAL OFFICER
30 JUL 1991
JJ

Date received in sanitary services 27 JUN 1991..

FOUL SEWER

No objection

DUBLIN COUNTY COUNCIL
31 JUL 1991
ENVIRONMENTAL HEALTH
OFFICERS

SURFACE WATER

No objection

PLANNING DEPT.
DEVELOPMENT CONTROL SEC
Date 20.08.91
Time 4.00
Michael Linn
26.7.91

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

PLANNING DEPT.
 DEVELOPMENT CONTROL SECT
 Date 20.08.91
 Time 4.00

Register Reference : 91A/0985

Date : 25th June 1991

ENDORSED _____

DATE _____

DUBLIN COUNTY COUNCIL
 31 JUL 1991
 PUBLIC HEALTH

WATER SUPPLY

*Recommendation -
 to deal with the fire water main layout
 provided.*

[Signature]
 28/6/91

ENDORSED _____

DATE _____

[Signature] 29/7/91

BOC
 28/6/91

SS + EHO

Register Reference : 91A/0985

Date : 25th June 1991

Development : Electrical building including transformers and switch rooms and material storage silos

LOCATION : Unit 5 Westgate Business Park, Ballymount Road, Dublin 4

Applicant : Caraplas Ltd

App. Type : PERMISSION

Planning Officer : N.O'BYRNE

Date Recd. : 14th June 1991

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 31.07.91
Time 2.15

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

Yours faithfully,

Paul Tobin

DUBLIN CO. COUNCIL
27 JUN 1991
SAN SERVICES

DUBLIN CO. COUNCIL
PRINCIPAL OFFICER
SANITARY SERVICES
30 JUL 1991
Returned *JJ*

Date received in Sanitary Services 27 JUN 1991..

FOUL SEWER

No objection

SURFACE WATER

No objection

M. L. L. L.
26.7.91

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

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 31.07.91
Time 2.15

Register Reference : 91A/0985

Date : 25th June 1991

.....
ENDORSED _____ DATE _____

WATER SUPPLY.....

*Recommendation - Insufficient information
to deal with the file re new water main layout
provided.*

[Signature]
28/6/91

ENDORSED *[Signature]* DATE 29/7/91

[Signature]
28/6/91

Register Reference : 91A/0985

Date : 25th June 1991

Development : Electrical building including transformers and switch rooms and material storage silos

LOCATION : Unit 5 Westgate Business Park, Ballymount Road Upper

Applicant : Caraplas Ltd

App. Type : PERMISSION

Planning Officer : N.O'BYRNE

Date Recd. : 14th June 1991

DUBLIN COUNTY COUNCIL
31 JUL 1991
ENVIRONMENTAL HEALTH

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 SE.
Date 13.08.1991
Time.....

Yours faithfully,

Paul Galvin

PRINCIPAL OFFICER

No objections provided compliance with
1. Safety in Industries Acts 1955-80.
2. Health Safety + Welfare at work Act. 1989.
Note. Water supply not indicated on plan.

Jackie Kelly
6/8/91. EMB.

John Healy 6/8/91

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

P/3634/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/0985

Date Received : 14th June 1991

Correspondence : P.C. O'Grady Associates,
Name and : Architects,
Address : 4 Cecilia Street,
Dublin 2.

Development : Electrical building including transformers and switch rooms and material storage silos

EN 211E

Location : Unit 5 Westgate Business Park, Ballymount Road Upper

Applicant : Caraplas Ltd

App. Type : Permission

Zoning :

Standard:	Nil
Reqs:	Nil
St. Fees:	Contributions
Open Space:	one being collected
Other:	at a Pleasant
SECURITY:	one
Bond / O.P.:	with
Cash:	Industrial
	unit
	construction

(NOB/DK)

Report of the Dublin Planning Officer dated 30th July, 1991.

This is an application for PERMISSION for an electrical building and 3 material storage silos at Unit 5, Westgate Business Park, Ballymount Road Upper.

The site is located in an area subject to the zoning objective "to provide for industrial and related uses."

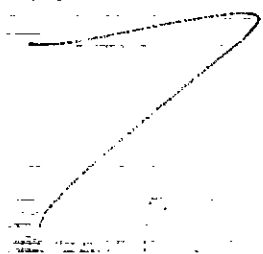
Reg. Ref. 89A-0882 refers to a decision to grant planning permission for an industrial/warehousing development on a site including the current site.

Reg. Ref. 90A-0970 refers to a decision to grant planning permission for 7 light industrial/warehouse units including two storey offices and ancillary site development works. Development commenced on foot of this permission. The current application refers to unit 5 of this permission.

The current application is for an electrical distribution building and 3 material storage sites. It is proposed that unit 5 be used for the manufacturing of plastic sheeting which requires a large supply of electricity. The silos are intended for the storage of the raw materials for the manufacturing process.

Unit 5 as approved has been built. The current proposal would involve a reduction of 6 in the number of approved car parking spaces to 102. The applicants have indicated that the maximum anticipated level of employment is 55 and that the balance of the car parking area would be adequate. An amended plan indicating car parking layout has been submitted with a letter dated 12th June, 1991.

July



COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0985

Page No: 0002

Location: Unit 5 Westgate Business Park, Ballymount Road Upper

Roads Department report *not received*

External finish to the proposed electrical building is the same as the existing unit. A similar external colour is proposed for the silos.

Supervising Environmental Health Officer reports *not received*

Chief Fire Officers report *not received*

The proposal is acceptable.

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

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

- 01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto. *have not to be shown on plans*
REASON: To ensure that the development shall be in accordance with the 9120-6-1 lodged permission and that effective control be maintained. *12/7/91*
- 02 That before development commences, approval under the Building Bye-Laws be obtained and all conditions of that approval be observed in the development.
REASON: In order to comply with the Sanitary Services Acts, 1878-1964.
- 03 That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development.
REASON: In the interest of safety and the avoidance of fire hazard.
- 04 That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.
REASON: In the interest of health.
- 05 The development shall be carried out in conformity with conditions nos. 7-8, 10-13 and 15 of the decision to grant permission by order no. P/3776/90 dated 21st August, 1990, Reg. Ref. No. 90A-0970, save as amended to conform with the revisions indicated in the plans lodged with the Dublin County Council in connection with this application.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0985

Page No: 0003

Location: Unit 5 Westgate Business park, Ballymount Road Upper

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

06 The external colour and finish of the silos and building shall match that of the existing unit 5.

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

6

Endorsed: *[Signature]*
for Principal Officer

[Signature]
for Dublin Planning Officer

Order: A decision pursuant to Section 26(1) of the Local Government (Planning and Development) Acts, 1963-1990 to GRANT PERMISSION for the above proposal subject to the (6) conditions set out above is hereby made.

Dated : 9 August 1991 *[Signature]*
ASSISTANT CITY AND COUNTY MANAGER *Approved Officer*

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 26th July, 1991.

6th August



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/0985

Date : 21st June 1991

Dear Sir/Madam,

Development : Electrical building including transformers and switch
rooms and material storage silos

LOCATION : Unit 5 Westgate Business Park, Ballymount Road Upper

Applicant : Caraplas Ltd

App. Type : PERMISSION

Date Recd : 14th June 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 399.25 .

I should be obliged if you would submit the balance of 299.25
as soon as possible as a decision cannot be made on this application
until the correct fee is received.

Yours faithfully,

.....
PRINCIPAL OFFICER

P.C. O'Grady Associates,
Architects,
4 Cecilia Street,
Dublin 2.



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

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

Decision Order Number : P/ 3631 /91 Date of Decision : 9th August 1991

Register Reference : 91A/0985 Date Received : 14th June 1991

Applicant : Caraplas Ltd

Development : Electrical building including transformers and switch
rooms and material storage silos

Location : Unit 5 Westgate Business Park, Ballymount Road Upper

Time Extension(s) up to and including :

Additional Information Requested/Received : //

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

Subject to the Conditions on the attached Numbered Pages.

NUMBER OF CONDITIONS:- 6...ATTACHED.

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

Date: 12/8/91.....

P.C. O'Grady Associates,
Architects,
4 Cecilia Street,
Dublin 2.

NOTES

1. An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.
2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:-

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

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

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

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

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

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

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

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

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

Reg.Ref. 91A/0985
Decision Order No. P/ 3631 /91
Page No: 0002



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

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

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto. Layout to be as shown on plans 9120-47 lodged 12th July, 1991.

REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That before development commences, approval under the Building Bye-Laws be obtained and all conditions of that approval be observed in the development.

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

03 That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development.

REASON: In the interest of safety and the avoidance of fire hazard.

04 That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.

REASON: In the interest of health.

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

06 The external colour and finish of the silos and building shall match that of the existing unit 5.

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5. Approval of the Council under the 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.

COMHAIRLE CHONTAE ATHA CLIATH

PAID BY **DUBLIN COUNTY COUNCIL**

46/49 UPPER O'CONNELL STREET, DUBLIN 1. **BYE LAW APPLICATION.**

CASH
CHEQUE
M.O.
B.L.
I.T.

REC. No. N 45336

Balance

£24.75

Received this 23rd day of July 1991

from P. J. C. O'Grady
Cecilia House
4 Cecilia St.

the sum of Twenty four Pounds

seventy five Pence, being balance

of fee on 91A/985

M. O'Grady Cashier

S. CAREY
Principal Officer Clare

P.C.
O'GRADY
ASSOCIATES

ARCHITECTS
&
PLANNING
CONSULTANTS

CECILIA HOUSE
4 CECILIA STREET
DUBLIN 2.

TEL:
6793690
775907

VAT NO:
9F71410E

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

19th July, 1991.

Attn: Ms Noleen Deane.

Re: Reg. Ref. 91A/0985
Electrical Distribution Building and storage silos at
Unit 5, Westgate Business Park, Dublin 24.

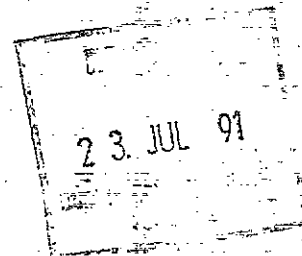
Caraplas Ltd.

Dear Ms. Deane,

Further to our telephone call on Tuesday 16th Inst. I wish to confirm that no Bye-Law Application has been made in respect of the storage silos. Accordingly I enclose a cheque for £24.75 being the balance claimed by you.

Yours sincerely,

J.C. O'Grady
John C. O'Grady.



J.C. O'GRADY
Dip Env Econ. M.I.Arch.S.

P.C. O'GRADY
F.F.A.S. M.I.Arch.S.
Consultant.

COMHAIRLE CHONTAE ÁTHA CLIATH

RECEIPT CODE

PAID BY DUBLIN COUNTY COUNCIL

CASH 46/49 UPPER O'CONNELL STREET
CHEQUE DUBLIN 1.

M.O.
S.L.
I.T.

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

N 44184

Balance

£164.50

Received this 12th day of July 1991

From P. J. O'Leary,
4 Cecilia Street
D.2

The sum of one hundred sixty four Pounds

fifty Pence, being balance

of planning application fee on
91A/985

Boyle Cashier

S. CAREY
Principal Officer

COMHAIRLE CHONTAE ATHA CLIATH

PAID BY CASH
 CHEQUE
DUBLIN COUNTY COUNCIL
46/49 UPPER O'CONNELL STREET
DUBLIN 1

BYE-LAW APPLICATION

REC. No. N 45231

Received this

day of

1971

from *P. J. O'Leary*

the sum of

Pounds

hence being

M. O'Connell Cashier

S. CAREY
Principal Officer

P.C.
O'GRADY
ASSOCIATES

ARCHITECTS
&
PLANNING
CONSULTANTS

CECILIA HOUSE
4 CECILIA STREET
DUBLIN 2.

TEL:
6793690
775907

VAT NO:
9F71410E

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

1st July, 1991.

Attn: Richard Whelan.

Re: Reg. Ref. 91 A/0985.
Unit 5, Westgate Business Park, Ballymount, Dublin 24.
Caraplas Ltd.

Dear Mr. Whelan,

Further to our meeting this morning I wish to submit an additional fee in respect of this application. I confirm that the transformer compound is an open yard, with no roof.

Fee: 95 sq. m. of structure @ 5.25	£ 498.75
Less paid.	£ 100.00
Balance.	£ 398.75

03 JUL 91

I enclose a cheque for this amount. The fee of twenty pounds for the 3 silos and transformers remains the same.

Yours sincerely,

John C. O'Grady.

J.C. O'GRADY
Dip Env Econ. M.I.Arch.S.

P.C. O'GRADY
F.F.A.S. M.I.Arch.S.
Consultant.

P.C.
O'GRADY
ASSOCIATES

ARCHITECTS
&
PLANNING
CONSULTANTS

CECILIA HOUSE
4 CECILIA STREET
DUBLIN 2.

TEL:
6793690
775907

VAT NO:
9F71410E

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

12th June, 1991.

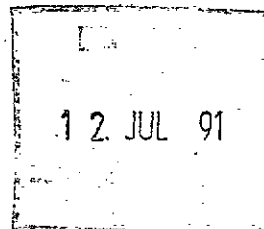
Attn: Niall O'Byrne.

91A/0985

1.4.0

Unit 5

Re: Reg. Ref. 91A/0985.
Unit 5, Western Business Park,
Ballymount, Dublin 24.



Dear Mr. O'Byrne,

Further to our telephone conversation of 11th Inst., I wish to confirm the following.

1. The raw material storage silos will be clad in a brown metal cladding, of similar profile and shade to that used to clad the factory.
2. The initial employment at the premises is estimated at 16, rising to a maximum of 55, in five years time.
3. A drawing is enclosed showing 102 car spaces available. The proposed electrical building will occupy 6 car spaces, thus reducing the total spaces indicated on a previous approved plan from 109 (actual 108) to 102.

Yours faithfully,

J.C. O'GRADY
Dip Env Econ. M.I.Arch.S.

John C. O'Grady.

P.C. O'GRADY
F.F.A.S. M.I.Arch.S.
Consultant.

1 JUN 1991

ISS. No. 114-01
APPLICATION TYPE ORIGINAL

GENERAL SPECIFICATION FOR

MV SUBSTATION & METERING

SWITCHROOM BUILDINGS

SEPTEMBER 1990
REVISION 5
WEP/REF: DDP857/EMG

STATION DESIGN SECTION
PLANT DIVISION
DISTRIBUTION DEPARTMENT

GENERAL SPECIFICATION FOR
MV SUBSTATION & METERING
SWITCHROOM BUILDINGS

NOTE:

Throughout this Specification, the word "Substation" may be replaced with "Metering Switchroom", except in the Specification of Internal Dimensions.

General Specification for MV Substation &
Metering Switchroom Buildings

	CONTENTS	PAGE
1.	GENERAL	1
2.	DESCRIPTION OF MATERIALS AND WORKMANSHIP	7
3.	DESCRIPTION OF WORKS	14
4.	ATTACHED LIST OF DRAWINGS	19

GENERAL SPECIFICATION FOR
MV SUBSTATION AND METERING SWITCHROOM BUILDINGS

1. GENERAL: The substation is to be built and completed in accordance with the enclosed drawings: (D202506, D202507 and D202508).
- 1.1 Introduction: The 'Purchaser', 'Employer' and 'Engineer' refer here to the party (or their agents) whose need for electricity supply requires the building of the substation. The actual substation building and rights of access will be the property of ESB as provided by the Purchaser free of charge under the Conditions Governing Electricity Supply at Medium Voltage.
- 1.2 Indenture of Contract: The Contractor will be required to enter into a formal indenture of Contract with the Purchaser of the substation building (not ESB) which will include the General Conditions of Contract, Drawings, Specification and any further clauses deemed necessary to ensure the completion of the works, and the proper protection of the parties to the Contract.
- 1.3 Conditions of Contract: The conditions of Contract applicable to this Contract shall be the "Conditions of Contract and Forms of Tender, Agreement and Bond for Use in Connection with Works of Civil Engineering Construction" Third Edition 1980 adopted by the Institution of Engineers of Ireland jointly with the Association of Consulting Engineers and the Civil Engineering Contractor's Association as amended, and added to by the attached Amendments and Additions, the Form of Tender, the Bill of Quantities and the drawings and such other drawings and instructions as shall be supplied to the Contractor by the engineer from time to time during the progress of the work.

- 1.4 Prime Cost: The words "Prime Cost" or initials "PC" applied herein to goods fixed by the Contractor shall mean the sum paid to Specialist Firms or Merchants, after deducting all trade or any other discount for such in the ordinary course of delivery and shall be exclusive of the cost of fixing and the Contractor's profit.
- 1.5 Provisional Amount: All provisional amounts in quantities are to be at the entire disposal of the Engineer who may add to or deduct from same or make alterations he deems necessary. Any difference shall be adjusted in the settlement of accounts.
- 1.6 Vouchers: All vouchers received by the Contractor in respect of PC. Items and Provisional Amounts shall be produced when required by the Engineer.
- 1.7 Payments: Payments shall be agreed between the Purchaser and the Contractor.
- 1.8 Plant: The Contractor must provide all and every kind of scaffolding, platform ladders, tools, tackle, hoists, machinery, rods, stakes, wooden boxes as measures and everything else in the nature of plant which will be required.
- 1.9 Sheds and Latrines: The Contractors must provide all sheds for storage of materials and latrines for the use of workmen. An area should be designated by the Purchaser for their location. All sheds and surplus materials must be cleared off the site on completion and the areas occupied by same made good.
- 1.10 Watching and Lighting: The Contractor shall make provision for all necessary watching and lighting at all times for the protection and safety of the works.
- 1.11 Notices: The Contractor shall allow for and serve all notices to Authorities and persons, making all applications to such and paying all fees legally demanded and indemnifying ESB against all claims and charges in connection therewith.

- 1.12 Act of the Oireachtas: The Contractor must conform to the provision of all Acts passed or adopted by the Oireachtas which may in any way affect the execution of the work. The Contractor shall observe all Orders, Rules, Regulations, Bye-Laws of Local Authorities and shall indemnify the Employers against all claims or liabilities arising.
- 1.13 Setting Out of Works: The works shall be carefully set out, checked and kept correct. Errors made in the setting out together with errors in the subsequent work, shall be the sole responsibility of the Contractor and shall be corrected at his expense.
- 1.14 Dimensions: All figured dimensions on the drawings are to be taken in preference to scale.
- 1.15 Other Contractors: In the event of other Contractors, Specialists or persons being engaged upon the site, the Contractor will be required to give free access to such Contractors, Specialists or persons and allow them the free use of scaffolding and plant and space for working and storage of materials.
- 1.16 Protection of Works: Any part of the works liable to injury shall be properly cased up and protected. Where in the opinion of the Engineer, or as conveyed to him by an ESB representative, work has been injured due to want of proper protection, the work shall be made good at the expense of the contractor.
- 1.17 Foreman: Should the Contractor employ a competent full time Foreman during the currency of the contract who shall be actively engaged on the supervision of the works during all working hours, then the Foreman shall be deemed to represent the Contractor and all instructions given to him by the Engineer shall be binding as if given direct to the Contractor.

1.18 Take Charge of Works: Allow for taking complete charge of the works from commencement until completion and thereafter for the duration of the maintenance period (six months). Also, allow for being responsible for and making good all injuries and damages occasioned by defective materials, workmanship or causes over which the Contractor has control. The Contractor shall indemnify the Employers against all claims for injuries to persons, animals or property.

1.19 Clearing Away at Completion: On completion of the works, the Contractor shall clear away all sheds, offices, latrines, plant, surplus materials, waste and rubbish and leave the site clean and tidy.

1.20 Insurances: Provide for effecting an Insurance protecting the Contractor and ESB jointly and severally against and Third Party Risks and Claims arising from or in connection with the work. The Contractor's Public Liability Policy shall be for £1,000,000.

Provide for paying Employers' Contributions under the Unemployment Insurance Act, the National Health Insurance Act, and all amending and extending Acts, the Widows' and Orphans' Pensions Act, the Holidays (Employees) Act, and the Intermittent Employment Act, and any other Act or Acts that may be in force at the date of tendering.

The Fire, Third Party and Workmen's Compensation policies are to be endorsed to cover the Electricity Supply Board as Principal. The Contractor's attention is drawn to Clause 59, Subsection A (1) (B) of the ICEI Conditions of Contract which will be strictly enforced.

1.21 Insurance Guarantee: ESB will require the Contractor at his own expense to enter into an Insurance Guarantee approved by ESB for 25% of the Contract amount for the due performance and completion of the Contract.

1.22

Contingencies:

The Contractor shall provide in his estimate the sum of £1,000.00 which shall be at the disposal of the Engineer in connection with contingencies which may arise during the period of the contract. This amount shall be deducted in whole or in part by the Engineer if not required.

1.23

Discrepancies:

In case of any discrepancies between drawings and specification, the ESB representative will decide which shall be followed.

1.24

Safety:

The Contractor will be required to administer and control his site activities in a manner conducive to the achievement and maintenance of adequate safety for his employees and those for whom he has a responsibility. The Contractor's attention is specially drawn to the obligation for strict compliance with the Safety in Industry Acts 1955 and 1980.

It shall be the responsibility of the Contractor to ensure that the requisite items of safety apparel and equipment necessary for the various working conditions pertaining are available and utilised by both his staff and those of the sub contractors.

The Contractor shall provide for the incorporation of safety devices on all plant. All plant which becomes defective shall immediately cease work.

In addition, the Contractor shall ensure that only personnel necessary for the ongoing work are permitted onto the site and that all admitted personnel are aware of all precautions to be observed. Precautions shall also be taken with the erection and storage of ladders, scaffolding and any other climbing aids to ensure that they are not used to gain unauthorised access to the station.

- 1.25 Damage to Buildings, Etc.: The Contractor shall make good any damage caused by his own or any sub contractors to buildings or structures of any kind, at his own expense and pay all costs and charges in connection therewith.
- Repairs, maintenance, etc., necessitated during and/or at the completion of the contract resulting from such damage shall likewise be the sole responsibility of the Contractor.
- 1.26 Damage to Roads and Footpaths: The Contractor shall reimburse the Local Authority for repairs of any damage caused to footpaths, roads, etc. The repairs may not be carried out by the Contractor.
- 1.27 Attendance: Attendance on sub contractor shall mean both general and special as required, rates for attendance should include for all scaffolding, plant, etc. which are required by the sub contractor.
- 1.28 Assignments and Sub-Letting: The Contractor's attention is drawn to Clauses 3 and 4 of the Conditions of Contract. Consent to the sub letting of any part of the works will not be granted unless such proposed sub letting is stated by the Contractor in his tender and approved prior to the acceptance of the tender by ESB.

2. DESCRIPTION OF MATERIALS AND WORKMANSHIP:
- 2.1 Generally: All materials shall be the best of their respective kinds and of Irish origin wherever possible. Workmanship is to be of the best possible description and to the entire satisfaction of the Engineer.
- 2.2 Unsound Materials: The Contractor shall not be entitled to any remunerations or allowances for the delay in progress of the works occasioned by the order of the Engineer for the removal of unsound or imperfect materials or workmanship.
- 2.3 Setting Out and Levels: No excavation is to be started until the position of works included in the Contract has been set out, the levels of existing ground recorded and the proposed road and drain levels shown on layout plan have been indicated on the ground with timber pegs by the Contractor's representative in consultation with the Clerk of Works.
- 2.4 Excavation: Quantities for excavation are taken nett. The Contractor's price is to take this into account as no further allowance for shuttering, etc., will be allowed. Excavation in rock is taken as nett. The Contractor's unit price for excavation is to include for removal of all surplus materials from the site.
- 2.5 Inspection of Excavations: The Contractor shall notify the Engineer when excavations are complete, and no concrete is to be poured until the Engineer has examined the excavated areas and approved of same.
- 2.6 Level and Consolidate: Bottoms of all excavations are to be levelled and consolidated before any concrete is poured or hardcore placed in position.
- 2.7 Planking and Strutting: Provide and fix all temporary planking and everything required to retain the face of excavation. Shuttering quantities are taken in the Bill of Quantities as Provisional for all foundations. Where shuttering is not used, the plan dimensions are to be increased by 150mm overall. The Tenderer's unit rates are deemed to cover this.

- 2.8 Excavation Free from Water: All excavations are to be kept free from all storm or percolating water by bailing, pumping or otherwise. The Contractor's unit rate will be deemed to include for all pumping etc. required.
- 2.9 Hand Excavation near Live ESB Cables: All excavations near live ESB cables are to be carried out by hand and under the supervision of ESB's representative.
- 2.10 Hardcore: In no case will "pitrun" gravel be allowed as hardcore. Hardcore is to be composed of broken brick or stone of size 75mm to 150mm consolidated in layers not exceeding 225mm with at least 8 passes of a 10 ton roller and blinder with coarse sand or gravel.
- 2.11 Blockwork: Shall be fairfaced solid concrete blocks; crushing strength 7N/MM² to comply with BS 5628. Blocks are to be laid and jointed in 3:1 sand cement mortar.
- 2.12 Mortar: Cement mortar shall consist of one part by volume of sand (unless other proportions are included in the Bill of Quantities or on the drawings) and shall be accurately gauged and thoroughly mixed, using the minimum amount of water required for workability. It shall be made in small quantities only, and any mortar which has begun to set or which has been mixed for more than half an hour or otherwise damaged will be rejected.
- 2.13 Concrete:
- 2.13.1 Materials:
- 2.13.1.1 Cement: Cement shall be ordinary Portland Cement of Irish manufacture, complying with Irish Standard 1 or BS 12. The use of other cements shall be subject to the Engineer's written approval, and the Contractor shall store them separately and take all precautions in their use including the investigation of the use of suitable methods, equipment, aggregates and other ingredients to be employed with them. High alumina cement shall not be used without written permission.

2.13.1.2 Aggregates:

Concrete aggregates shall normally consist of naturally occurring materials, from a source to be approved by the Engineer and to be open to his inspection before the start of the works and during their progress. They shall comply with BS 882 or IS 5 and shall be supplied as fine and coarse aggregates. An all in aggregate will not be allowed for any reinforced concrete work.

Fine aggregate shall be clean, sharp, natural pit sand or sand derived from crushing gravel or stone; it shall be graded within the required BS Grading limits for Class "A" natural sand and shall be free from all clay, organic matter or any deleterious substances.

Coarse aggregate shall be crushed or uncrushed gravel or stone; it shall be clean and evenly graded to the maximum sizes specified and within the required BS Grading limits for 20mm and 40mm coarse aggregates.

Fine and coarse aggregates shall be delivered and stored separately.

Aggregates which do not comply with the specification or which have become contaminated, defective or otherwise unsatisfactory shall be removed from the site, or otherwise disposed of to the Engineer's satisfaction.

2.13.1.3 Water:

Where not supplied by the Client under contract, water for the mixing and curing of concrete, mortar, plaster and grout shall be taken from an approved source and shall be clean and free from deleterious substances including salt, oil, alkali, or organic matter. The methods of delivery and storing the water shall be to the approval of the Engineer.

2.13.1.4 Admixtures:

Suitable admixtures may only be used in concrete mixes with the prior approval of the Engineer. The use of admixtures, where permitted, shall be in accordance with Clause 6.2.4 of CP 110, Part 1.

If used, admixtures shall be stored and handled so as to avoid contamination or damage to their properties by temperature or moisture changes or other causes. If two or more admixtures are thought to be required in any one mix or if it is proposed to use an admixture with any cement, the manufacturers shall be consulted and full details of such consultation submitted to the Engineer for approval.

Admixture for which no BX exists, such as superplasticisers, shall be identified by type and proprietary brand name. Proposals for the use of such admixtures shall be submitted by the Contractor with his tender, together with full details of any proposed alterations to design mixes as defined in this Specification.

2.13.2 Production and Quality:

2.13.2.1 Grades of Concrete:

Unless specified otherwise, all grades of concrete are classed as "design mixes" as defined in BS 5328.

The grades of concrete to be employed will be indicated on the Drawings, in the Bill of Quantities or by instructions given by the Engineer from time to time. Thus 25/20 means that the grade is 25 and the maximum size of aggregate is 20mm.

The various grades of concrete shall have the following properties:

Grade	*Characteristic Strength N/mm ²
10	10
15	15
20	20
25	25
30	30
40	40
50	50
60	60

* As defined in BS 5328.

- 2.13.2.2 Minimum Cement Content: The minimum permissible cement content for different conditions of exposure to which the finished concrete will be exposed shall be in accordance with Table 28, CP 110 Part 1. Cement content shall in all cases have the minimum value given in this Table irrespective of the requirements to produce the strength specified in this Specification.
- 2.13.2.3 Machine Mixing: The mixing shall be carried out in a mechanical mixer of an approved type and the mixing shall continue for a minimum of two minutes after the water has been added.
- 2.13.2.4 Hand Mixing: The Engineer may at his discretion allow small quantities of concrete to be mixed by hand. When permitted the cement content for hand mixed concrete shall be increased by 1%. A fine spray shall be used for adding the water and the turning over of the concrete shall be continued until the whole is thoroughly mixed.
- 2.13.2.5 Placing Concrete: All concrete must be placed within 30 minutes of water being added to the mix and any concrete which is not placed within that time shall be remixed or reagitated before being placed. Concrete shall not be dropped, shovelled from, or thrown from a height greater than 900mm into moulds or trenches. Skips must be used as directed to lower the concrete into moulds or trenches.
- 2.13.2.6 Reinforcement: All bar reinforcements shall conform to BS 49, 4461, 4482 and 4483. All steel to be entirely free from dirt, oil, paint, loose rust or scale when fixed in position.
- 2.13.2.7 Vibrating: The Tenderer's unit rates for concrete shall be deemed to include for vibrating the concrete with a mechanical vibrator.
- 2.13.2.8 Defective Finish: Where any concrete is found to be defective in the quality, accuracy or appearance of its finish, it shall be at the sole discretion of the Engineer to have it removed and replaced by concrete of the required standard or otherwise dealt with at no additional cost to the Board, or if he so decides, the payment for the defective area may be deducted or adjusted.

Repairs to the surface of concrete shall be carried out as soon as possible after removal of the shutters, subject to the Engineer's prior approval of the extent, nature and method of repair.

2.13.2.9 Shuttering:

Shuttering shall consist of sound and properly seasoned timber of suitable thickness, tongued and grooved, or otherwise wrot and close jointed boarding erected true to line and to the shapes required by the work and shall be of suitable design and substantial construction to carry the loads due to wet concrete and incidental loading without appreciable distortion or deflection. Wire or similar ties may not be left embedded in any concrete having a face exposed to the weather. Bolts will be allowed provided they are properly greased to allow for easy withdrawal and holes afterwards made good.

All formwork to be thoroughly cleaned, hosed with water and oil to prevent adhesion before any concrete is placed. The minimum times for the removal of shuttering shall be in accordance with the relevant table in the BS code CP 110.

Care shall be exercised to ensure that the exact cover as specified to the reinforcement is obtained for the particular parts of the works. Approved fine concrete washers or pads may be used to maintain the correct cover.

Before placing any concrete the shuttering to the soffitts of beams, lintels and slabs shall be covered with a thin coat of cement grout in the proportions of 2 parts by weight of cement to one part by weight of water.

2.13.2.10 Frosty Weather:

No concrete shall be placed when the atmospheric temperature is below 38 degrees F. on a falling thermometer or below 34 degrees F. on a rising thermometer.

2.13.2.11 Joints in Concrete:

All joints, construction or otherwise in concrete shall be formed on horizontal or vertical planes against firm well strutted shuttering. All such joints shall be formed with tapered grooves of a size suitable for their function taking into account the thickness of the member in which the joint is formed.

2.13.2.12 Curing:

Concrete after being placed in situ and during the early stages of hardening shall be protected from the harmful effects of sunshine, drying wind and cold, for a period of least 7 days.

3. DESCRIPTION OF WORKS:

3.1

Fire Safety Requirements:

The principal concern associated with ESB substations is that other buildings and the general public are not put at risk in the event of a fire originating in the substation. Substations incorporated into a customer's building must meet the following requirements:

- The Substation room must open through an external wall of the main building to the open air and access to the substation entrance must be unrestricted. If possible, the doors of the substation should be at ground level. It is permissible to position the door open in a basement provided:
 - (a) the stairway leading to the doors is adequate to facilitate the installation of the transformer,
 - (b) a lobby with fire doors of at least the quality of the substation doors is erected in front of the substation doors.
- There should be no communication between the substation internal space and the main building space. all cable openings at or above ground level must be sealed off with a 6:1 vermiculite cement mix. Where openings are provided to the customer's space below floor level, the cable ducts should be filled with clean dry sand.
- Substation ventilation must be through the external wall or door only.
- The walls and ceiling which separate the substation from the rest of the building should have at least four hour fire resistance construction (to BS 476) and be reasonably explosion proof. In particular, the substation ceiling must be of reinforced concrete and independent of the main building. It is possible to incorporate it in a floor or roof of the main building only if these are of reinforced concrete construction.

- No pipes or services not forming part of the substation equipment must pass through the substation enclosure.
- The substation doors must open outwards through a full 180 degrees.

Free standing substations must meet the following requirements:

- All cable openings at or above ground level must be sealed off with a 6 : 1 Vermiculite cement mix. Where openings are provided to the consumer's premises below floor level, the cable ducts should be filled with clean dry sand.
- The walls and ceiling should have at least four hour fire resistance construction (to BS 476) and be reasonably explosion proof. In particular, the substation ceiling must be of reinforced concrete.
- No pipes or services not forming part of the substation equipment must pass through the substation enclosure.
- The substation doors must open outwards through a full 180 degrees.

- 3.2 Excavation: Excavate to a minimum depth of 830mm for wall foundations and remove surplus material from site. Excavate to further depth, if required, to reach a firm stratum and remove material from site.
- 3.3 Blinding: A 50mm layer of grade 10 concrete is to be laid as blinding to wall foundations.
- 3.4 Foundations: Foundations for walls, piers and equipment are to be positioned as shown in the drawings. Foundations are to be constructed in Grade 25 concrete, laid in horizontal benches between strong timber shuttering and of the size and depth shown. The Contractor is to include for any stepping required to ensure horizontal foundations. All foundations are to be reinforced with high tensile steel mesh to BS A252 or heavier.

- 3.5 Walls: Walls of substation to be either:
- (a) 215mm Fairfaced Concrete Blocks laid and jointed in 3:1 sand cement mortar. Joints on inside face of wall to be recess pointed.
 - (b) Cavity wall, having a 115mm thick outer leaf in selected brick to match adjoining boundary walls, a 50mm cavity and an inner leaf constructed with 100mm solid concrete blocks, laid and jointed in 3:1 sand cement mortar, joints in brick and block walls to be recess pointed.
- 3.6 Lintel: A pre-stressed concrete Lintel is to be provided over the door ope.
- 3.7 Floor Slab: The floor is to consist of Grade 25 Concrete 150mm thick, reinforced on top with A252 square mesh reinforcement. The floor slab is to receive a power float finish and is to be painted with a 2 pack polyurethane dust retarder. The concrete is to be laid on a layer of 1000 gauge "Visqueen" D.P.M. turned up at all edges and laid on a 230mm layer of well compacted and blinded hardcore.
- 3.8 Damp Proof Membrane: An approved type damp proof membrane is to be laid on all rising walls and also on top of walls for roof bearing. The D.P.M. is to be lapped well at joints and corners.
- 3.9 Doors: Galvanised steel doors per Drawing D204386 is the preferred option, wooden doors are to be used only when aesthetic require their use. Galvanised doors to be painted pine green (colour 5-061 from BS 2660 1955) or some other suitable colour as will blend with the surroundings.

Suppliers of hinges and bolts for wooden doors:

: H. May & Co.,
Bluebell Ind. Est.,
Dublin.
Ph. : (01) 508542

: Adare Iron Works Ltd.,
Station Road,
Adare,
Co. Limerick.
Ph. : (061) 94156

: Harty Steerine Ltd.,
Crossbeg Ind. est.,
Ballymount Road,
Dublin.
Ph. : (01) 521744

- 3.10 Trimmer to Threshold: A 50mm x 50mm x 6mm galvanised mild steel angle with 50 x 6 x 100mm LG fishtailed fixing plates is to be set into the entrance door step.
- 3.11 Louvres: Galvanised steel ventilators are to be provided in free standing substations. The ventilators are to be constructed in accordance with Drawing C56069B or manufactured as follows:
- Top and bottom frame made from 102 x 51 x 10.42kg/m mila steel channels of length shown on drawing. Side frame made from similar section. Angles to be 70 x 70 x 6mm mild steel spaced 25mm apart with the centre of the angle facing upwards. All welding to the neat seam welds and to be filled smooth. Two fixing flats are to be provided in side frame channels made from 100mm x 5mm x 125mm LG mild steel plates. Ventilators are to be hot dip galvanised after manufacture.
- 3.12 Spud Block: Concrete spud blocks are to be provided and fixed at entrance doors to suit 150mm x 75mm door frames. Spud blocks are to take 10mm dia steel spuds which are to be inserted in the bottom of each door frame.
- 3.13 Rainwater Pipe: If it is a free standing substation, (or if the roof is open to the atmosphere) a 65mm square PVC rainwater pipe is to be provided. Rainwater pipe to be fixed 25mm clear of finished wall surface. Rainwater outlet to be provided in flat roof. All joints in rainwater pipe to be PVC cement sealed. Drainage pipes must on no account pass inside the substation.

- 3.14 Internal Walls: All joints in internal blockwork to be recess pointed in 3:1 cement mortar as the work proceeds. The finished walls and ceiling are to be given two coats of an approved white emulsion.
- 3.15 External Walls: All joints on external faces of walls to be raked out. The wall surfaces are then to be scudded with coarse sand and cement (2:1), then scratch coated and floated in two separate 10mm thick coats of sand and cement (3:1).
- 3.16 Plaster Reveals: All plaster reveals to be 18mm thick at entrance doors and vents.
- 3.17 Plinths: Plinths to be formed at bottom of all walls. All plinths to be scudded, scratched and floated in cement mortar (3:1) and finished with a wooden float to a nap texture.
- 3.18 Approach: Where required, a driveway is to be laid, 3 metres wide, consisting of a 100mm thick layer of Grade 25 concrete on a 150mm layer of hardcore.
- 3.19 Piers & Gates: Piers and gates, where required for driveway are to match surrounding garden gates.

LIST OF ATTACHED DRAWINGS

BUILDING DETAILS:

- D202506 Standard Building Details for MV/LV Indoor Substation - Substation incorporated in Main Building.
- D202507 Standard Building Details for MV/LV Indoor Substation - Substation is free standing.
- D202508 Standard Building Details for MV Metering Switchroom - Switchroom incorporated in Main building.
- D204384 Medium Voltage Substation Building Details of foundations and Floor slab.
- D204385 Medium Voltage Substation Outdoor Building Roof slab details.
- D204396 Medium Voltage Switchroom Building Details of Foundations and Floor Slab.
- D204397 Medium Voltage Switchroom Outdoor Building - Roof Slab Details.
- DOORS
- D202116 Steel Door for 10kV Indoor Substation (1984) (with vents).
- D204367 Steel Door (single) for MV Indoor Switchroom 1990.
- D204386 Steel Door for MV Indoor Substation 1990 (without vents).
- C56069B MV Substation General Details of M.S. Louvres. Second Revision.

NOTES

1. General:

This drawing must be read in conjunction with the "General Specification for 10kV Substation and Metering Switchroom Buildings".

The structure shall be of brick, concrete block or equivalent material and comply with the best practise for permanent damp proof buildings.

2. Doors:

Door shall be of galvanised steel as specified, see drawing no. D204386.

3.

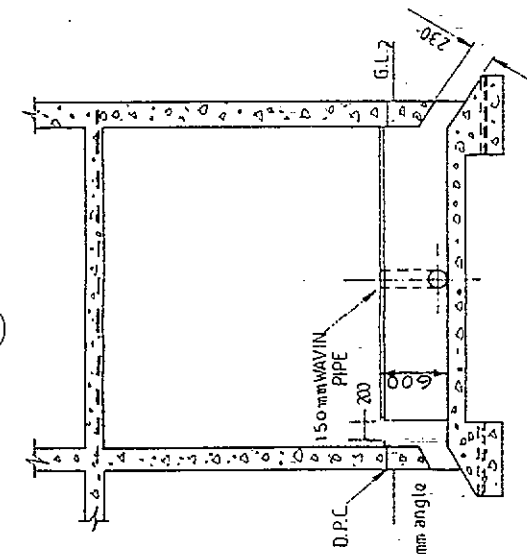
This drawing also applies to 10kV Metering Switchrooms which accommodate a transformer to feed the network. (Switchroom is incorporated in the main building.)

4. Related Drawings:

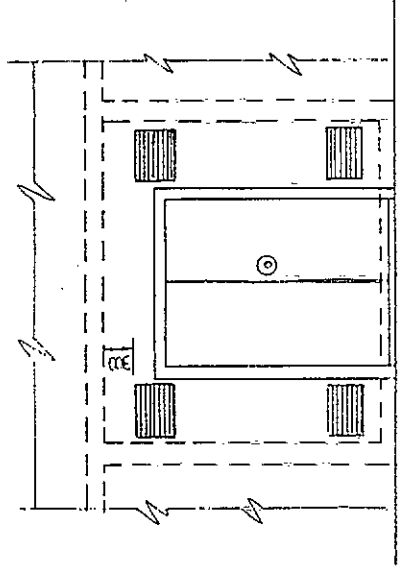
See Drawings D204384 and D204385 for floor and roof slab details.

5. Ventilation:

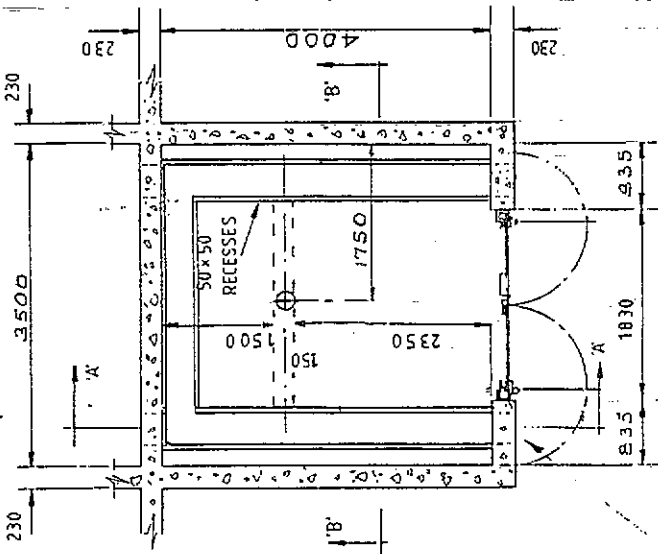
Where additional ventilation is required, use vented door as per D202116.



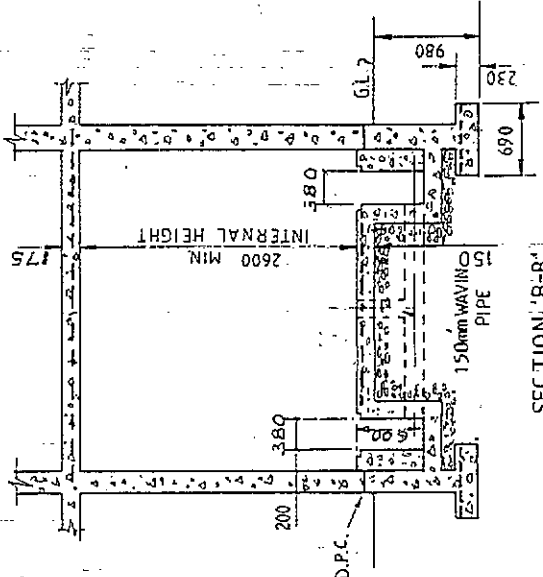
SECTION 'A-A'



FRONT ELEVATION



SECTIONAL PLAN



SECTION 'B-B'

COPIES	NO.	TO	DATE

DRAWN	T.S.	3/84
TRACED	J.M.	3/84
CHECKED	J.M.	3/84
APPROVED	J.M.	6/84
M'FILMED		
SCALE:	N.T.S.	

NO.	SIG.	DATE	MIF
1	JM	19/10/87	
2	JM	17/11/88	
3	JM	17/11/89	
4	JM	20/11/89	
5	JM	11/11/91	
6	JM	11/11/91	
7	JM	7/5/90	

SECTIONAL PLAN Door Opening 1800
 REVISIONS
 DEPTH OF RECESSES ADDED
 ROOF DIMENSION INCREASED
 DIMENSIONS ALTERED
 RECESSES EXTENDED
 NOTE RE CABLE DUCT ADDED.

NO. 1	SCALE	AS SHOWN IN SECTION

NOTES

1. General:

This drawing must be read in conjunction with the "General Specification for 10kV Substation and Metering Switchroom Buildings".

The structure shall be of brick, concrete block or equivalent material and comply with the best practise for permanent damp proof buildings.

2. Doors:

Doors shall be of galvanised steel as specified. The masonry opening for double doors should be 2,44m high by 1.82m wide. Detail of the required doors are given in Drawing No.'s D204386 and D204387.

3. Ventilation:

Where additional ventilation is required, use vented door as per D202116.

4. Louvres:

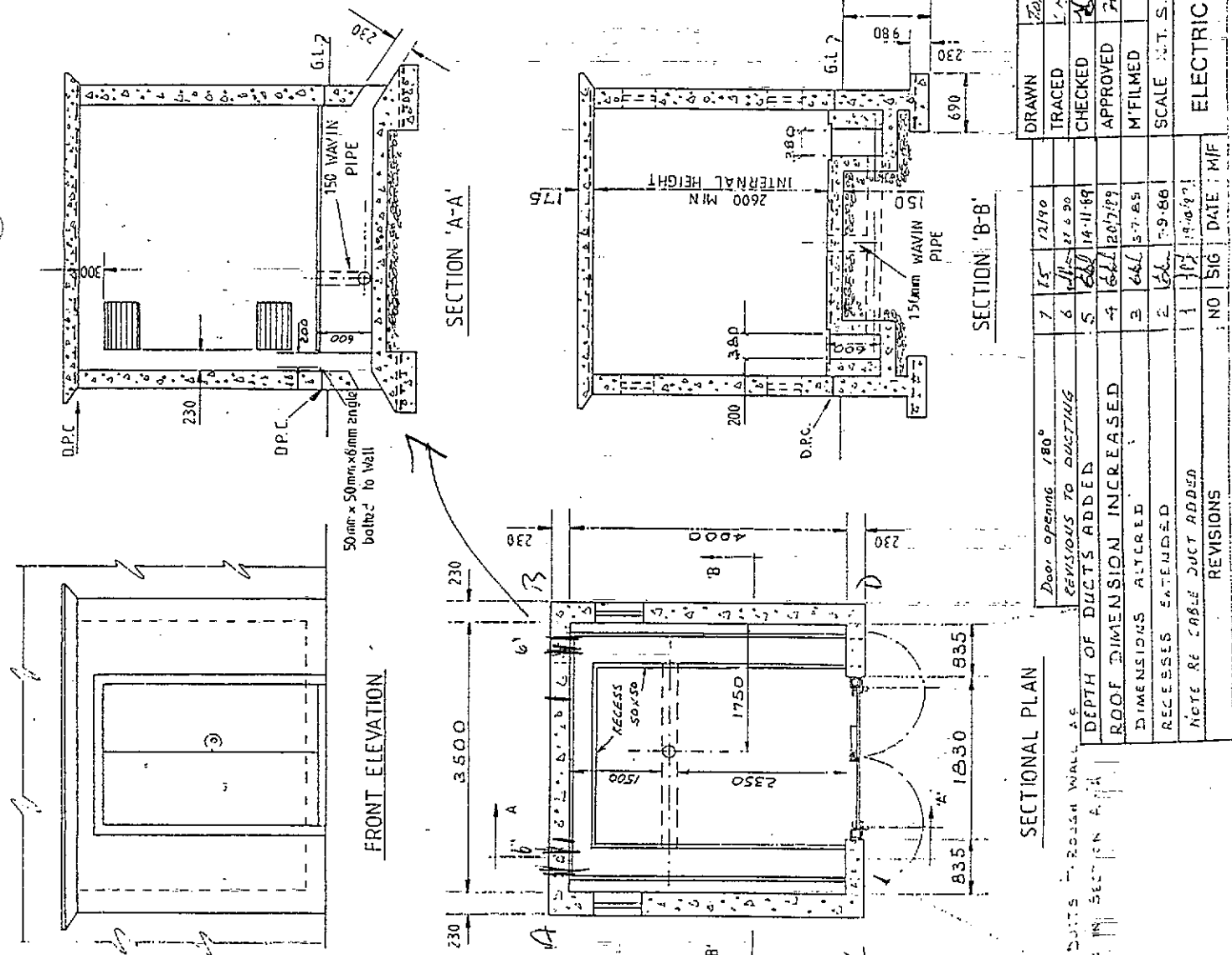
Details of louvres are given in Drawing No. C560698.

5. Related Drawings:

This drawing also applies to 10kV free Standing Metering Switchrooms which accommodate a Transformer to feed the network.

6. See Drawings:

D204386 and D204385 for floor and roof slab details.



COPIES	NO.	TO

DRAWN	20.7	3/84
TRACED	1/84	5/84
CHECKED	1/84	5/84
APPROVED	2/84	5/84
M/FILMED	7/84	5/84
SCALE	N.T.S.	

NO.	SIG.	DATE	M/F
7	ES	12/90	
6	JL	27/90	
5	ES	16/11/89	
4	ES	20/89	
3	ES	5/7/85	
2	ES	7/9/86	
1	ES	18/10/81	

REVISIONS

REVISIONS TO DUCTING

DEPTH OF DUCTS ADDED

ROOF DIMENSION INCREASED

DIMENSIONS ALTERED

RECESSES EXTENDED

NOTE RE CABLE DUCT ADDED

REVISIONS

NO SIG DATE M/F

DOOR OPENING 180°

DEPTH OF DUCTS TO DUCTING

ROOF DIMENSION INCREASED

DIMENSIONS ALTERED

RECESSES EXTENDED

NOTE RE CABLE DUCT ADDED

RO / 1

A3 SHEET

STANDARD BUILDING DETAILS FOR

M.V.L.V. INDOOR SUBSTATION

SUBSTATION IS FREE STANDING

ELECTRICITY SUPPLY BOARD, IRELAND

D 202 507

NOTES

1. General:

This drawing must be read in conjunction with the "General Specification for HV Substation and Metering Switchroom Buildings".

The structure shall be of brick, concrete block or equivalent material and comply with the best practise for permanent damp proof buildings.

2. Cable Opes:

A cable opes should be provided to convey cables into the consumer's switchroom. The appropriate wall for this opes is dependant on the location of the consumer's switchroom. The opes shall be positioned in the trench of the back of the substation.

3. Doors:

Door shall be of galvanised steel as specified. The masonry opes for a single door should be 2.2m high by 1.12m wide. Details of the required door are given in Drawing No. D204367.

4. Related Drawings:

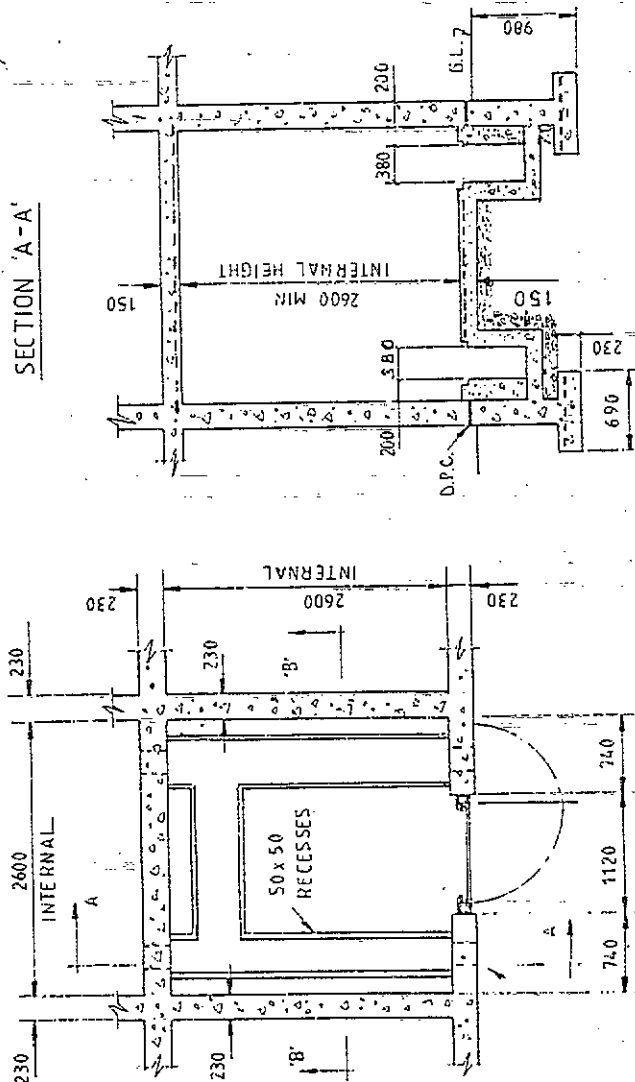
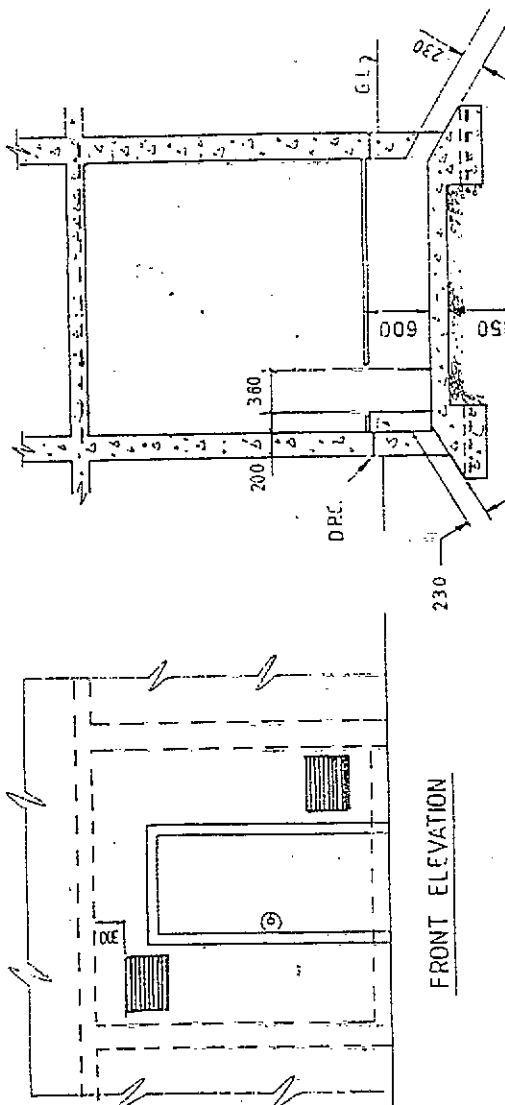
See Drawings D204396 and D204397 for floor and roof slab details.

5. Freestanding Switchrooms:

Since a feed must be provided from the metering switchroom to the M.V. meters, situated in the consumer's premises, it is unlikely that the metering switchroom will be freestanding. If a freestanding switchroom must be constructed the general layout and dimensions shown in this drawing should be used.

6. Louvres:

Details of Louvres are given in Drawing No. P56069B.



STANDARD BUILDING DETAILS FOR
M.V METERING SWITCHROOM -
SWITCHROOM INCORPORATED IN MAIN
BUILDING

DRAWN	107	3/83
TRACED	174	3/84
CHECKED	210	5/84
APPROVED	80	6/84
M-FILMED		
SCALE	1:50	

Door Opening	1800	4	7.5	Dec 90
Ducting & Trenches	Altered	3	7.5	Nov 91
TRENCH DIMENSIONS ON	ALTERED	2	8.11.88	19
NOTE RE CABLE DUCT RODED		1	1.10.87	1

NOTE
CABLE DUCT THROUGH WALL AS
SHOWN IN SECTION A-A

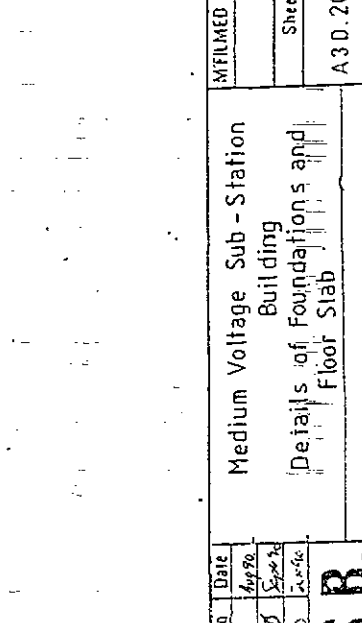
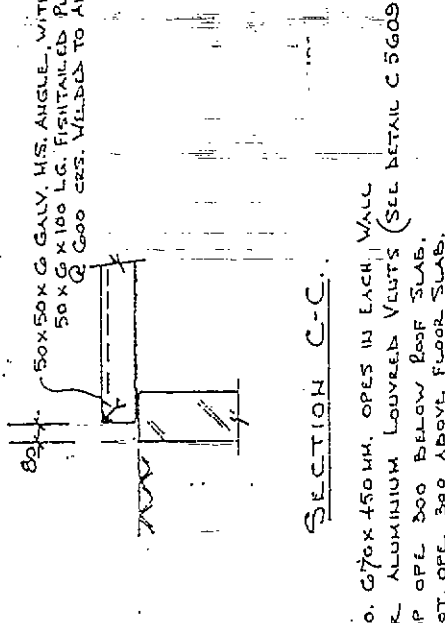
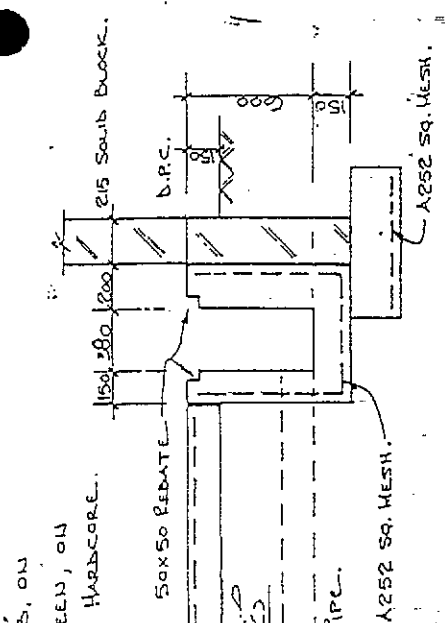
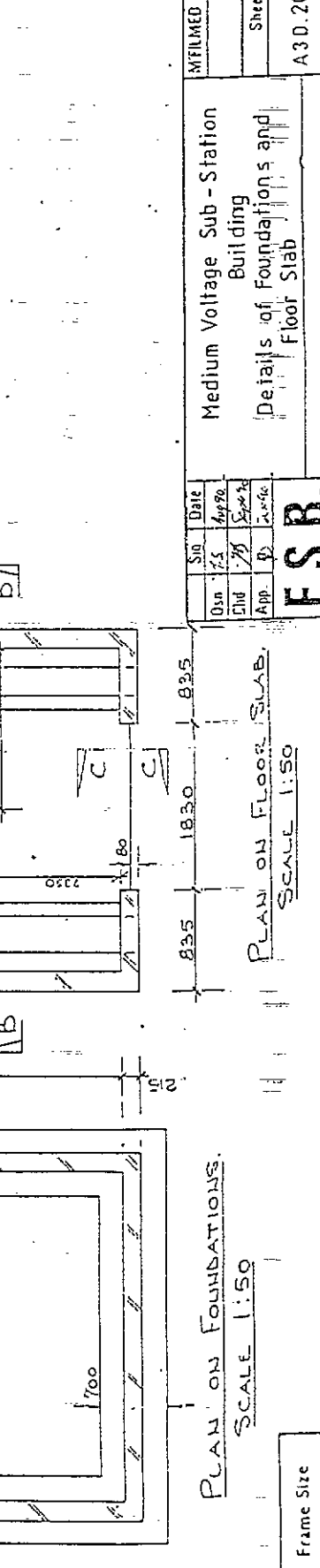
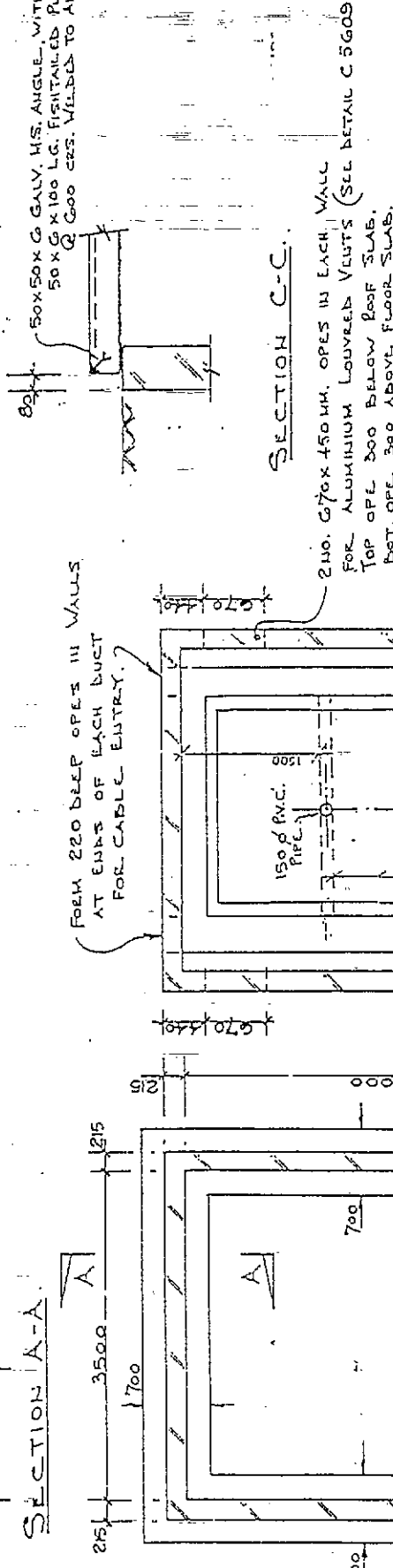
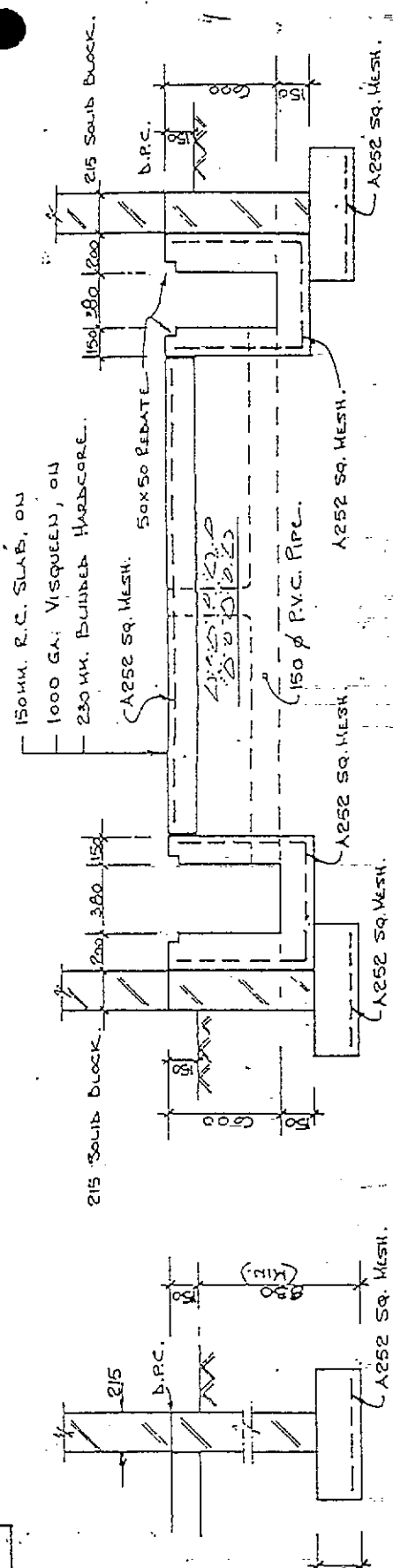
NO	SIG	DATE	I/M/F

REVISIONS

R0 |
A3 SHEET

ELECTRICITY SUPPLY BOARD, IRELAND

D 202 508



150MM. R.C. SLAB, ON
1000 GA. VISQUEEN, ON
230 MM. BUHBER HARDCORE.
A252 SQ. MESH.
50x50 REBAR.
215 SOLID BLOCK.
215
D.P.C.
150 Ø P.V.C. PIPE.
A252 SQ. MESH.
SECTION A-A.

210 Ø 70x150 MM. OPES IN EACH WALL
FOR ALUMINIUM LOUVERED VENTS (SEE DETAIL C 5609 C).
TOP OFE 300 BELOW ROOF SLAB.
BOT. OFE 300 ABOVE FLOOR SLAB.
A252 SQ. MESH.
SECTION B-B.

FORM 220 DEEP OPES IN VAULTS
AT ENDS OF EACH BUXT
FOR CABLE ENTRY.
150 Ø P.V.C. PIPE.
A252 SQ. MESH.
SECTION C-C.

PLAN ON FOUNDATIONS.
SCALE 1:50

PLAN ON FLOOR SLAB.
SCALE 1:50

DETAILS OF FOUNDATIONS AND
FLOOR SLAB.
SCALE 1:50

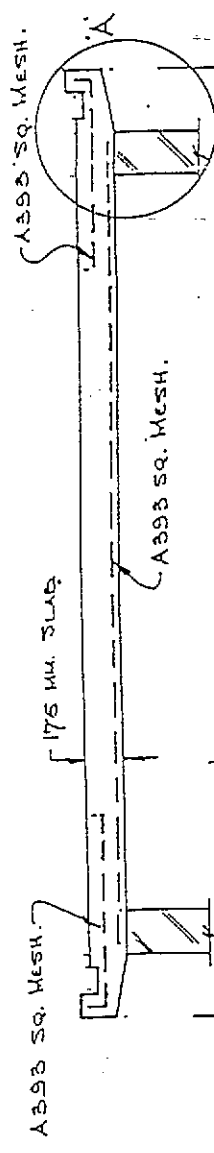
Original Frame Size
390 x 267 (A3)

Rev	Date	By	App.
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2	1/5	1/5	1/5
3	1/5	1/5	1/5

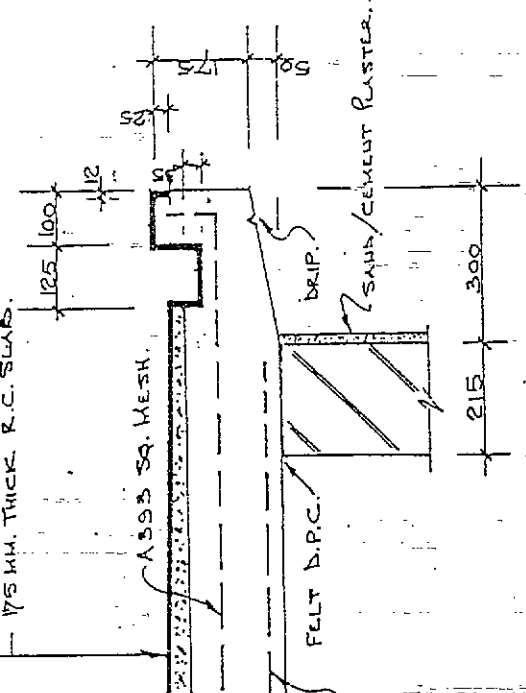
Medium Voltage Sub-Station
Building
Details of Foundations and
Floor Slab

E.S.B.
A3D.204384

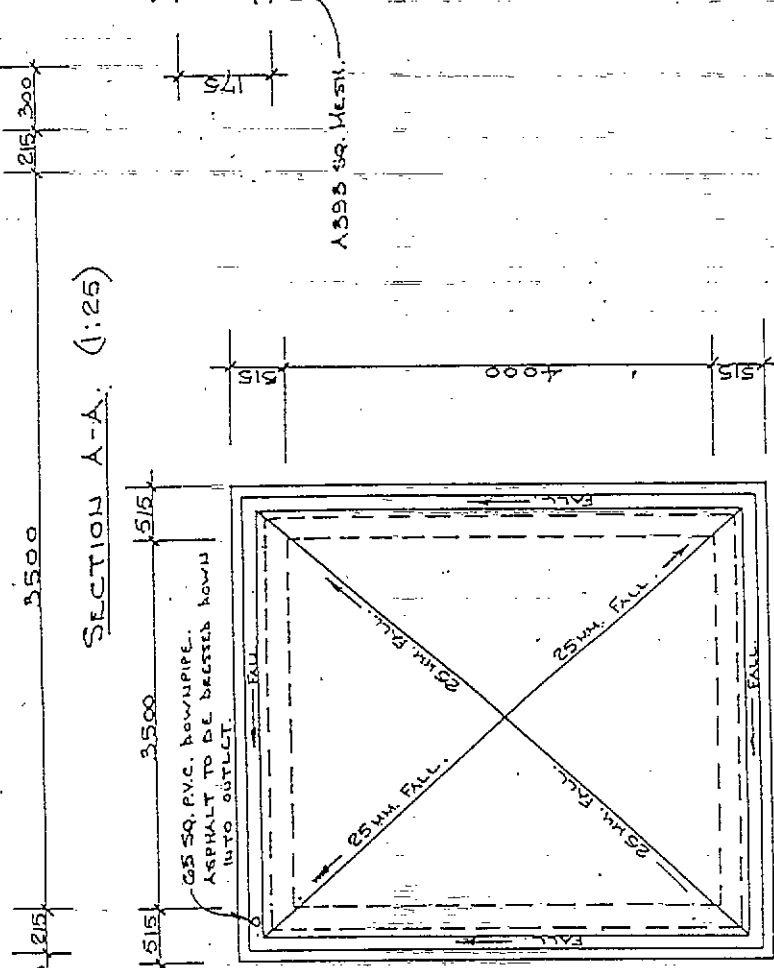
M/FILMED
Sheets
Sheet



20MM ASPHALT, LAID IN TWO 10MM LAYERS, ON
 25 MM (MIN) SAND/CEMENT SCREEN LAID TO FALLS, ON
 75 MM THICK R.C. SLAB.



DETAIL AT 'A'
 SCALE 1:10



SECTION A-A (1:25)

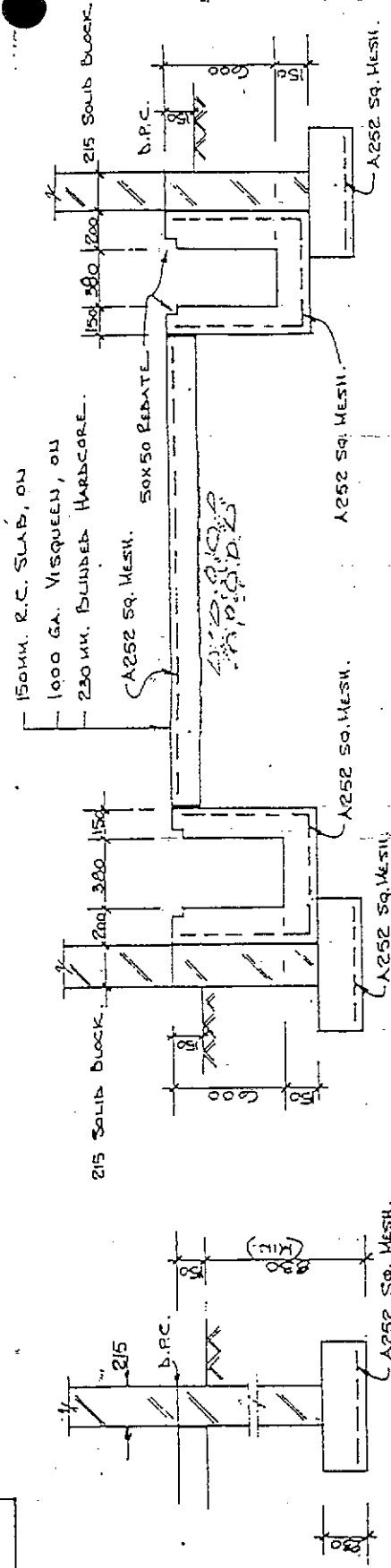
PLAN ON ROOF SLAB
 SCALE 1:50

M/T/L/M/D		SHEETS		SHEET	
Dsn.	75	Rev.	PD	A3D.204385	
Chd.	PD	Scale	1:50		
App.	6	By	6/19		

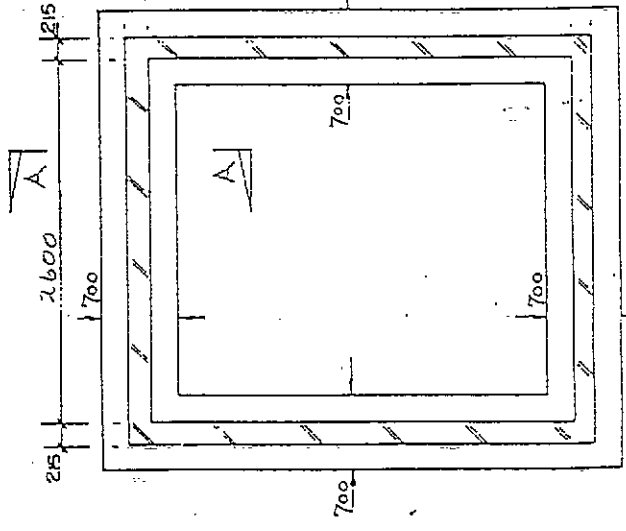
Medium Voltage Sub - Station
 Outdoor Building
 Roof Slab Details

E.S.B.

Original Frame Size
 350 x 267 (A3)



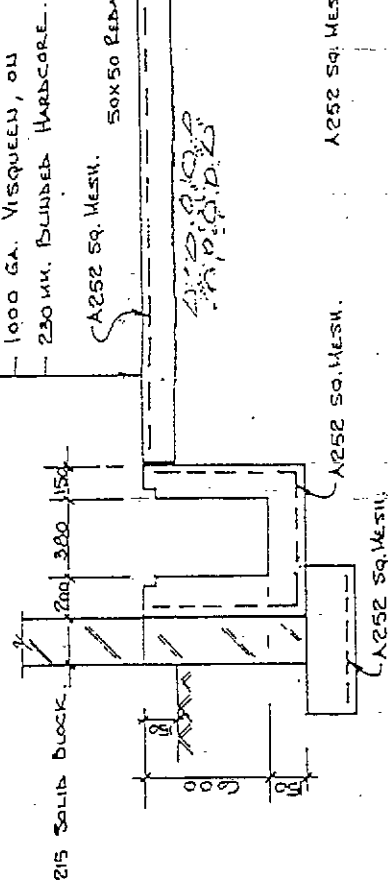
SECTION A-A



PLAN ON FOUNDATIONS

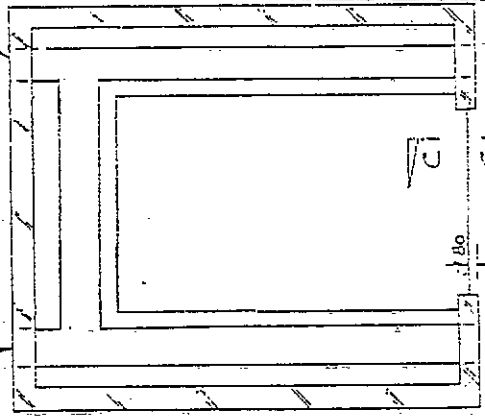
N.T.S

Original Frame Size
390 x 267 (A3)



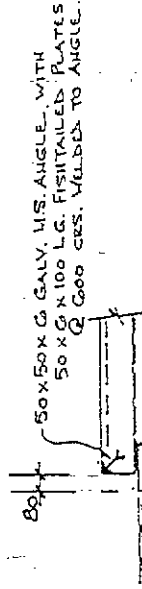
SECTION B-B

FORM 220 DEEP OPES IN WALLS
AT ENDS OF EACH BUILT
FOR CABLE ENTRY.



PLAN ON FLOOR SLAB

N.T.S



SECTION C-C

Medium Voltage Switchroom
Building
Details of Foundations and
Floor Slab

Desn	Appr	Chd	Rev	Date
				Apr 28
				Apr 28
				Apr 28

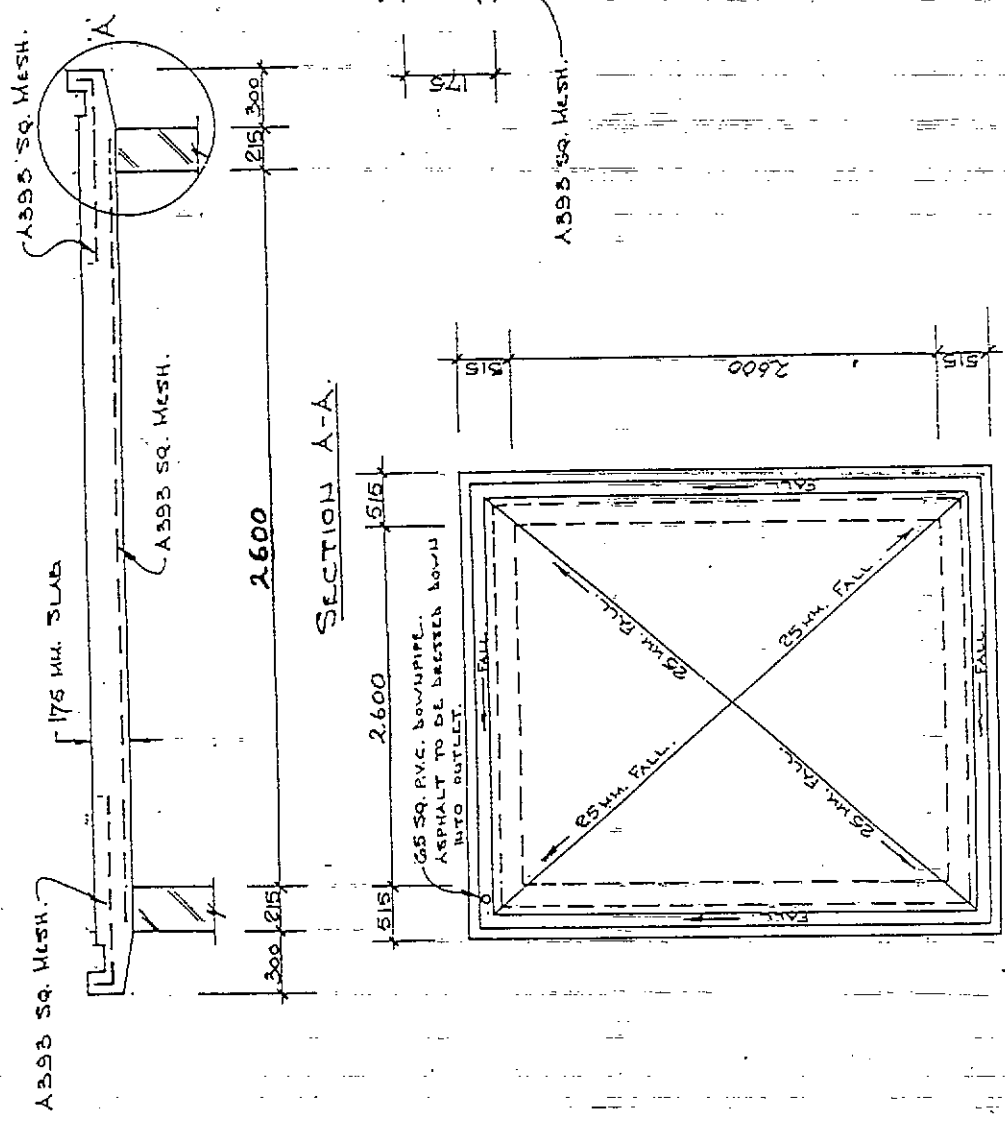
E.S.B.

REFILED

Sheets

Sheet

A30.204396



20MM ASPHALT, LAID IN TWO 10MM LAYERS, ON
 25MM (MIN) SAND/CEMENT SCREED LAID TO FALLS, ON
 175MM THICK R.C. SLAB.

DETAIL AT 'A'
 N.T.S

PLAN ON ROOF SLAB
 N.T.S

Sig	Date
Dsn. 123	Aug 90
Chd. AB	Sept 10
App. AB	Sept 10

E.S.B.

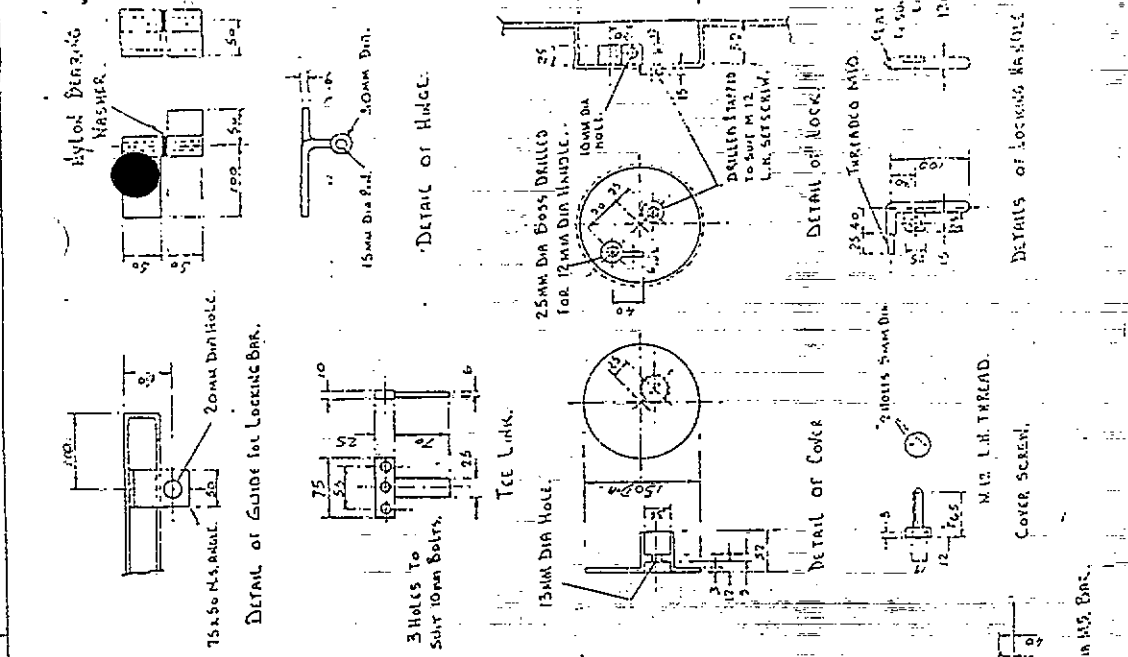
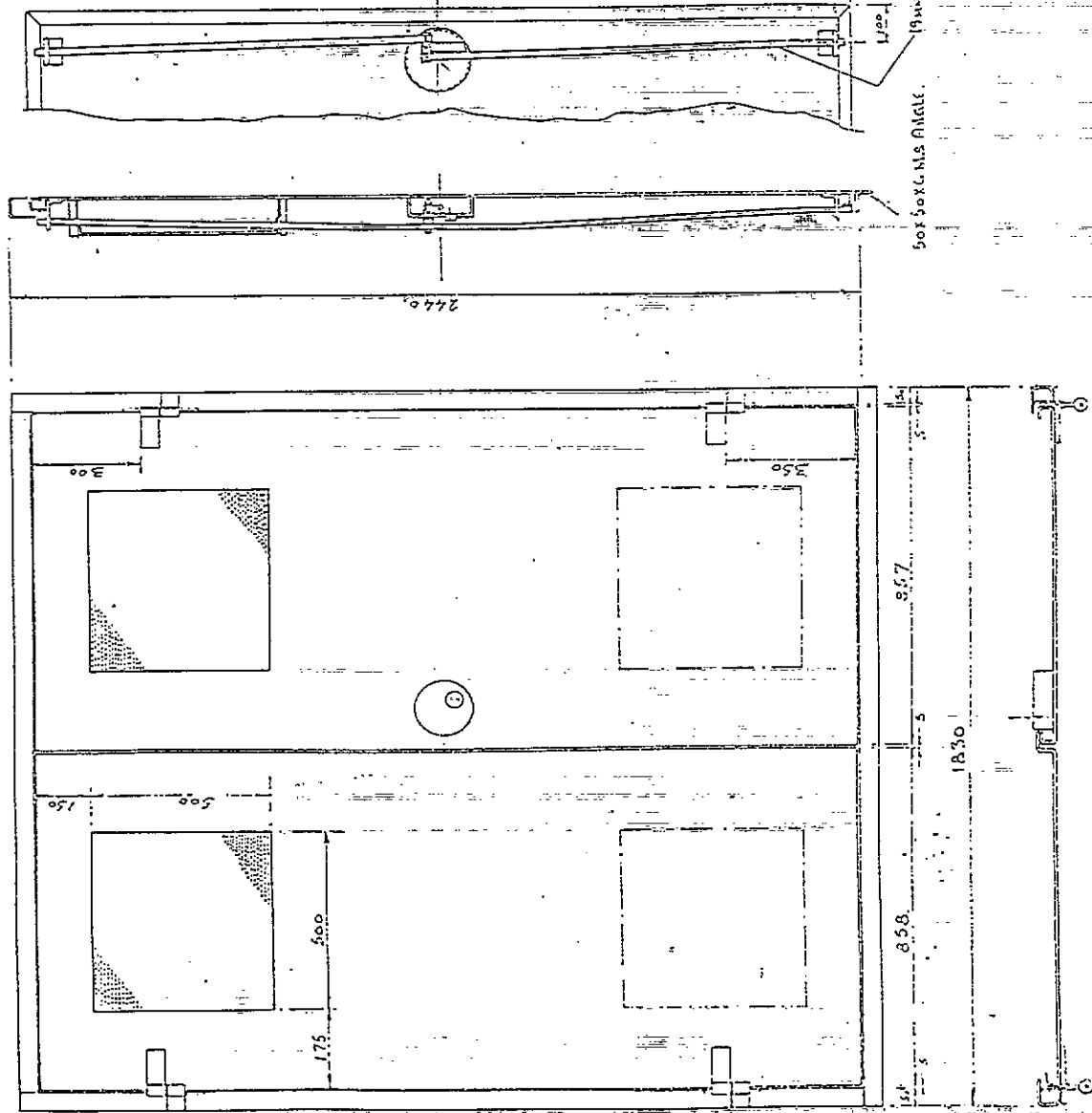
Medium Voltage Switchroom
 Outdoor Building
 Roof Slab Details

30.204397

Original Frame Size
 390 x 267 (A3)

COPIES

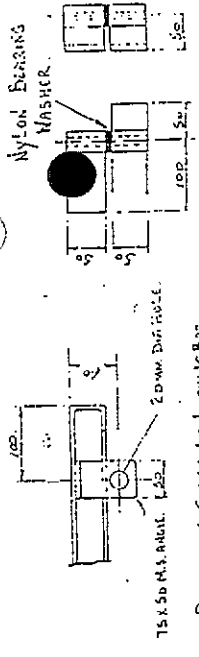
DATE



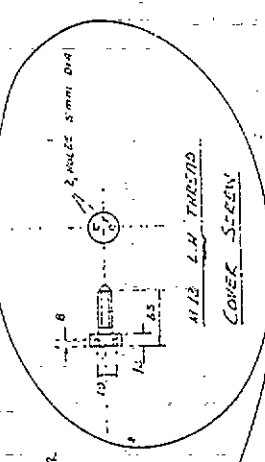
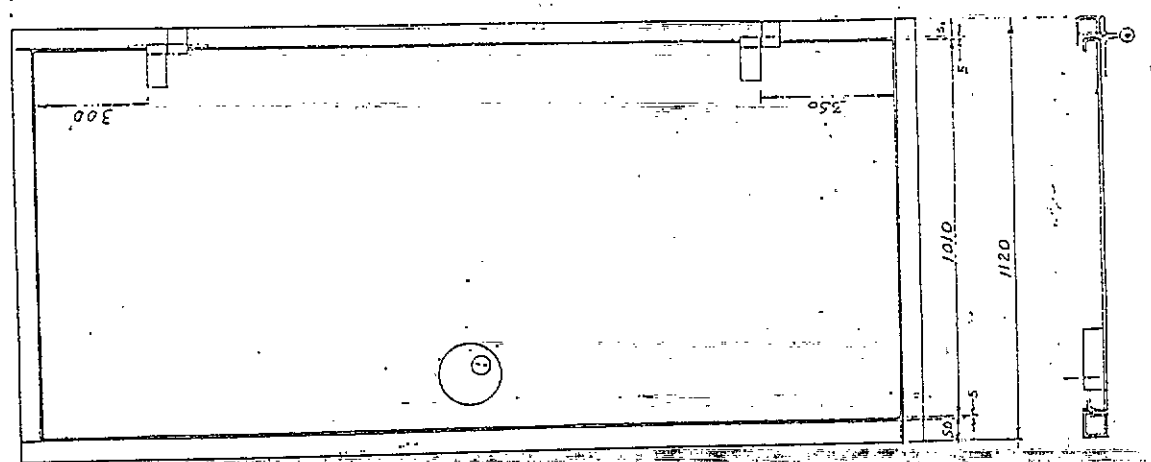
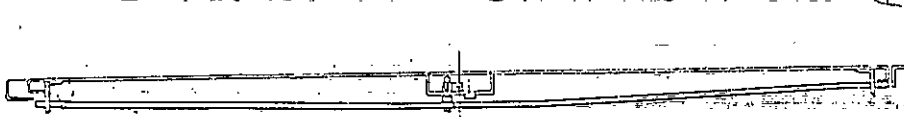
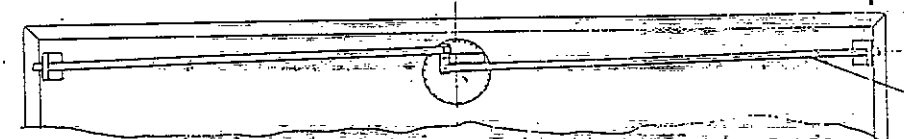
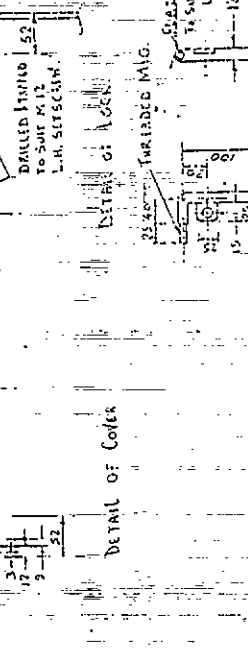
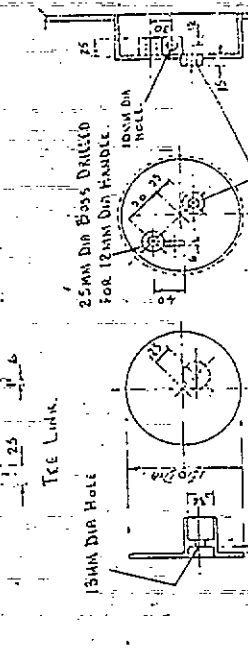
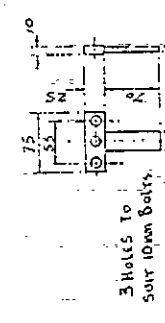
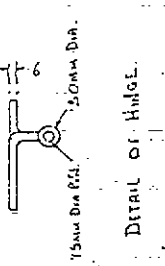
DOOR & FRAME TO BE CONSTRUCTED FROM 716 M/S. SHEET,
 CONTINUED WHERE NECESSARY TO PREVENT INTERFERING DRIVING
 SPRINGS FROM OCCURRING.
 MOUNTING PLATE TO BE EXPANDED METAL 1579T TO BE ASSED FOR VENTING
 FINISHED EXPANDED METAL 1579T TO BE ASSED FOR VENTING
 VENTILE FLANGES SHOULD BE FITTED TO ALL ROUND VENTS.
 SECTION VENTS ONLY FITTED WITH GASKETS

DRAWN: 10.4.84
 CHECKED:
 APPROVED:
 REC:
 SCALE: 1:10 & 1:5
 19.4.84

ELECTRICITY SUPPLY BOARD, IRELAND
 APP 207/H16
 MV INDOOR SUBSTATION 1984
 STIFF DOORS (WITH VENTS)



DETAIL OF GUIDE FOR LOCKING BAR.



DOOR & FRAME TO BE CONSTRUCTED FROM 5MM M.S. SHEET.
 REINFORCED WHERE NECESSARY TO PREVENT BUCKLING DURING
 OPERATING.

STEEL DOOR (SINGLE)
 FOR M.V. INDOOR SWITCHROOM / 1980

ORIGIN	Ad	As	As
CHECKED	ZB	As	As
APPROVED	SE	As	As
REG	As	As	As
SCALE 1:10 & 1:5			

ELECTRICITY SUPPLY BOARD, IRELAND.

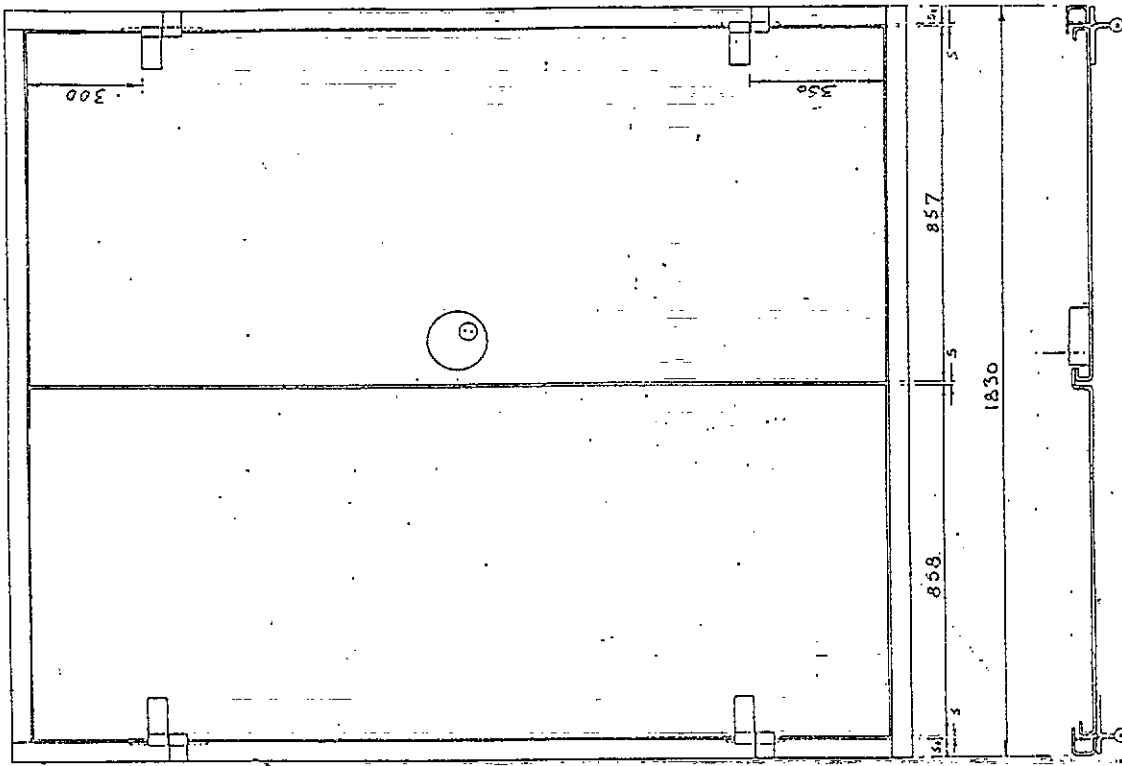
A20.200.0007

COPIES	
ON	
DATE	
TO	

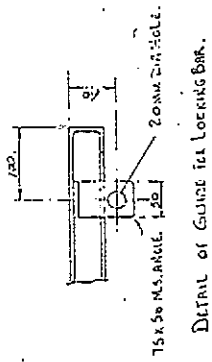
PROJECT DATA

COPIES

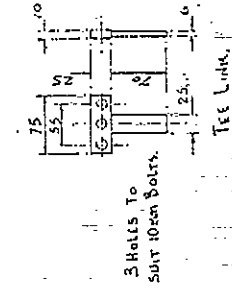
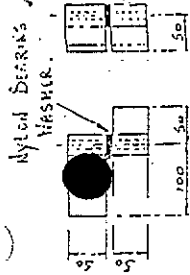
NO	TO



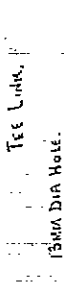
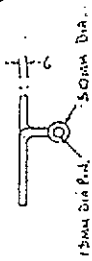
DOOR & FRAME TO BE CONSTRUCTED FROM 5mm MS. SHEET.
 REINFORCED WHERE NECESSARY TO PREVENT BUCKLING DURING
 SELF-RISING.



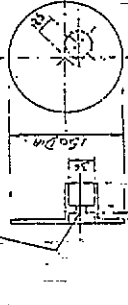
DETAIL OF GUIDE FOR LOCKING BAR.



DETAIL OF HANDLE.



25MM DIA BOLT DRILLED FOR 12MM DIA HANDLE.

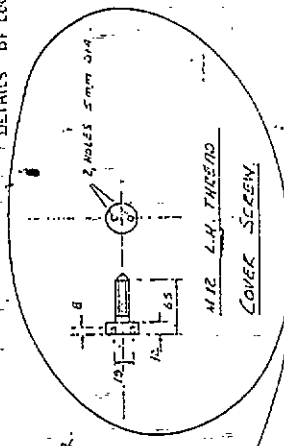


DETAIL OF COILER

DETAIL OF LOCK



DETAILS OF LOCKING HANDLE.



50x50x6 MS ANGLE.

19mm DIA MS BAR.

DRAWN	AH	DATE	16.10.
CHECKED	JH	DATE	17.10.
APPROVED	VD	DATE	17.10.
REG			

SCALE: 1:10 & 1:5.

STEEL DOOR (without vents)
 FOR M.V. INDOOR SUBSTATION 1990

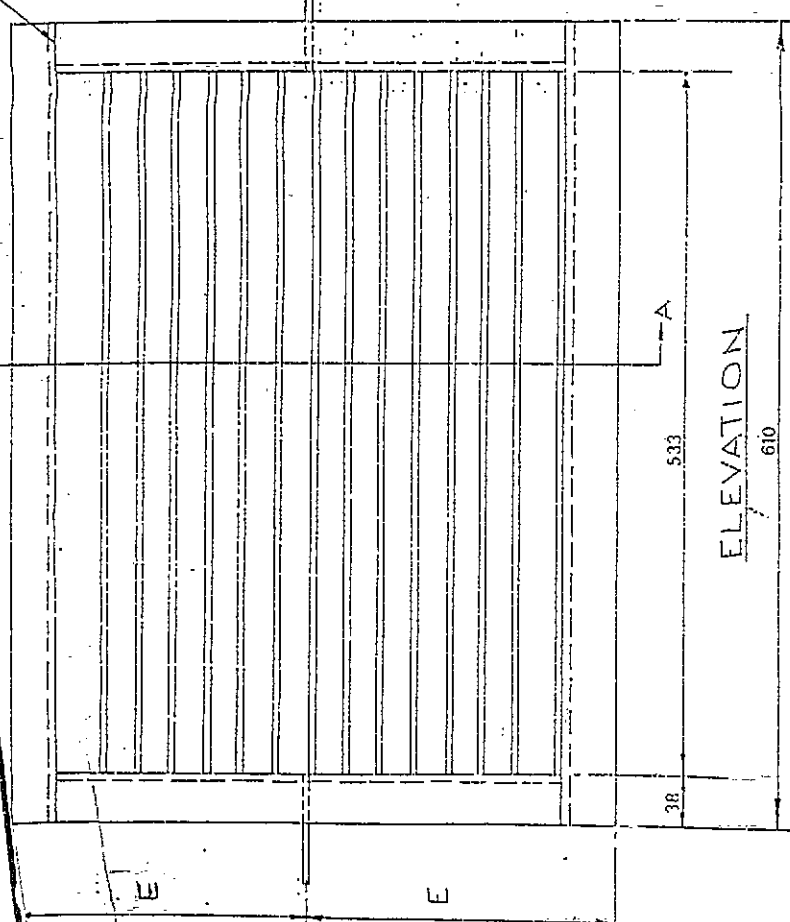
ELECTRICITY SUPPLY BOARD, IRELAND.

A2D. 204388

REVISONS

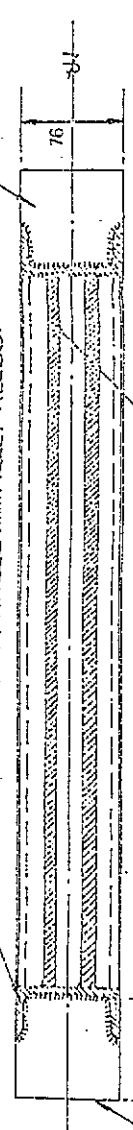
NO.	DATE	BY

TOP AND BOTTOM CHANNELS FILLET WELDED - 6mm TO SIDE CHANNELS



ELEVATION
610

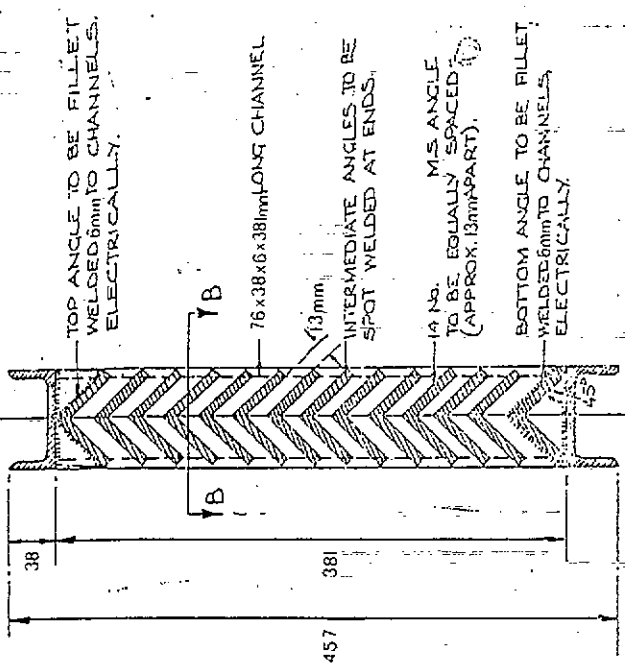
76x38x6 LONG CHANNEL WELDED TO TOP AND BOTTOM CHANNELS 6mm FILLET WELDS.



SECTIONAL PLAN B-B

All dimensions are in mm.

Original frame Size
370 x 257 (A3)



SECTION A-A

SCALE: 1:6mm FULL SIZE

		ELECTRICITY SUPPLY BOARD CIVIL WORKS DEPARTMENT DUBLIN	
Drawn H. J. SMITH	Traced H. J. SMITH	Checked J. J. SULLIVAN	Approved J. J. SULLIVAN
M.V. SUB-STATIONS GENERAL DETAILS OF M.S. LOUVRES SECOND REVISION		C 560696	

REVISIONS
 A. SIZES OF CHANNELS ALTERED 29.7.56.
 B. REVISIONS