Record of Executive Business and Manager's Orders

WITHDRAWAL OF BUILDING BYE LAW APPLICATIONS

£3,447.50

Charges due in relation to applications under the Building Bye Laws have not been paid in respect of the particular application listed hereunder:

FEE DUE FEE PAID £3,447.50 NIL

BALANCE DUE REG. REF.

DATE DEC.DUE

APPLICANT

PROPOSAL

Extn. to exist. warehouse & offices @ Site 17 Clondalkin Ind. Estate.

It should be noted that a period of not less than two months has expired since the application listed has been received.

RECOMMENDATION:

Para 3 (11) of the approved schedule of charges provides that:

"In accordance with Section 6 of the Local Government (Financial Provisions) (No. 2) Act, 1983 where:-

- (a) no fee is submitted with the application, or
- (b) the fee submitted is less than the appropriate fee payable as set out in the schedule of fees,

the County Council 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of two months commencing on the day the application is received the application will be regarded as having been withdrawn and if a fee less than the appropriate fee has been paid, it will be refunded.

I recommend that the abyve application be regarded as having been withdrawn.

SENIOR ADMINISTRATIVE OFFICER.

ORDER:

The Building Bye Law application listed by the Senior Administrative Officer is hereby regarded as having been withdrawn. The applicant to be informed accordingly.

K.O' Anilya

ASSISTANT CITY AND COUNTY MANAGER.

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

BYE LAW APPLICATION FEFS

REF. NO.:	91A/0844		a	ERTIFICATE NO.: _	15118.	
PROPOSAL:	Extension to	Words	use & office			
LOCATION:	Unit 17 CRag	avenue	Clondalia	Indistricul	Estato	
Talat ICEL	Nut Ross				** (* 1) a * 1	

· · · · · · · · · · · · · · · · · · ·	1	2	3	4	5	6	7
CLASS	DWEILINGS/ARFA LENGIH/STRUCTURE	RATE	AMT. OF EE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FEE APPL.	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ £55					
В	Domestic Ext. (Improvement/ Alts.)	@ £30 ·					
С	Building for office or other comm. purpose 984.47m	@ £3.50 per M ² cr £70	13447.50	NIC	3447	50	
D	Building or other structure for purposes of agriculture	@ £1.00 per M ² in excess of 300 M ² Min. £70			apple	cation mungo	7
Е	Petrol Filling Station	@ £200 .			10/2		
F	Dev. of prop. not coming within any of the forgoing classes	£70 or £9 per .1 hect. whichever is the greater					

Column 1 Certified:	Signed:	Grade: DAT	Date: 29/5/91.
Column 1 Endorsed:	Signed:	Grade:	Date: \$ 91
Columns 2,3,4.5,6 &	7 Certified:	Signed: Grade: Scrade:	- vace/-/-
Columns 2,3,4,5,6 &	7 Endorsed:	Signed: Grade:	Date:(_

LCCATION COVERNMENT (FLANING AND DEVELOPMENT) ACTS, 1953 TO 1952

ASSESSMENT FIRM CIAL CONTRIBUTION

REG. REF.:

CONT. PEG.:

SERVICES INVOLVED: WATER/FOUR SELECTION TO THE

AREA OF SITE:

MEASURED EY:

CHECKED EY:

YETHOD OF ASSESSANT:

TOTAL ASSESSMENT

WAYGER'S CREED NOOLY

COMHAIRLE CHONTAE ATHA CLIATH DUBLIN COUNTY COUNCIL

NO FEE WITH BYE LAW APPLICATION			
TELEPHONE: 724755			
EXTENSION: 231/234	PLANNING DEPARTMENT,	! - 	
FAX.: 724896	IRISH LIFE CENTRE.	·* ·	
	LOWER ABBEY STREET.,	ı	
Rooney Associates,	DUBLIN 1.	an and the same of the same	Statement of the statem
100 South Circular Road,			
Dublin R.	30/5/Q1	And the section of th	en e
REG. REF.: 91A/0844		egggy Timesy on The selection of the se	
	ffice at Unite 17 Craq Terreco	; Clondalk	in Ind. Estate
for Nat Ross.	The state of the s		
I refer to your application for Bye I wish to inform you that the Plann application until the appropriate fappropriate fee has been received becommencing on the day the applications having been withdrawn.	ing Authority will not comment ee is paid. <u>If no fee or a f</u> by the Council on the expirati	ce to consi ee less that ton of two m	ider the
The correct fee for the above menti	oned application is £ 3,447	.50	
Please quote the Register Reference	No. stated above when submi	tting the fo	8 6.
Yours faithfully,	, in the state of		
		and the	
	.		•

*25427 CERTIFICATE NO: 917/0844 Extension to Warehouse & office unit 17 CRag TOPRACO, Condallan AHTL CF. RECEIPT N EATE DUE LLINGS/AREA FOSSES FEE REG. LENGTH/STRUCT EE5E **E**£1.5 ISSp per M in excees . of 300m² Him.£40 ಫ್ರಕ್ಷಾ (. 984.47 i hect-£250 - # = 1 = = = x it herr herry Signi. G-ECE:

LOCATION GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1953 TO 1982

ASSESSMENT OF FINANCIAL CONTRIBUTION

REG.	REF.:	914/844
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CONT. REG.:

SERVICES INVOLVED: WATER/FOUL SEVER/SERFACE VALUE

AREA OF SITE:

FLOCE AREA OF FRESENT PROPOSAL: 10597FT

MEASURED EY:

CHECKED BY:

WETHOU OF ASSESSMENT:

TOTAL ASSESSMENT:

WANAGER'S CEDEFEE NO: F/ DATEDLAL DATE

ENTERED IN CONTRIBUTIONS REGISTERS

10,597@f750

La 1,000 19: ful 1.C. 10597 X 0.75

DEVELORMENT CONTROL ASSISTANT GRADE

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COMHAIRLE CHONTAE ATHA CLIATE

Record of Executive Business and Manager's Ord

Register Reference: 91A/0844 Date Received: 12thpAuguet F1991

SECURITY:

Open Space:

Roads:

S. Sers:

Other:

C. sh:

Name and

Correspondence : Rooney Associates,

: 100 South Circular Road,

Address

Dublin 8.

Development : Extension to existing warehouse and offices

Location

: Site 17 Clondalkin Industrial Estate

Applicant : Nat Ross

: Permission App. Type

Zoning

Floor Area: 914 Sq.metres

(MG/BB)

Report of Dublin Planning Officer dated 1st October, 1991.

This is an application for PERMISSION for a warehouse extension at site 17 Clondalkin for Nat Ross.

The proposed development provided for an extensive warehouse extension and new attic accommodation at this site. It was considered to be excessive in terms of site coverage and also by reason of the fact that insufficient car parking areas were proposed. Furthermore information was submitted on the nature of the existing business or that proposed at the extension (see report dated 17.7.91 on file).

The applicants were requested to submit additional information to provide for a possible reduction in floor area and to clarify desails of the applicants Nat Rous business with regard to parking, as follows:-

- The applicant is requested to submit a revised site location map which identifies the entire site, the subject of the current application outlined in red, i.e. the area of Site 17.
- 2. The proposed development involves the construction of a warehouse and office extension of floor area 984.47 sq. metres at Unit 17 Clondalkin Industrial Estate. This would effectively double the floor area of the existing building on site and would result in an overall level of site coverage of c. 65%. This would be in excess of the level of site coverage normally permitted in areas zoned 'E', i.e. 45%, and would result in the overdevelopment of the site. The applicants are requested to submit any proposals they might have to reduce the level of site coverage to a level acceptable to the Planning Authority.

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0844

Page No: 0002

Location: Site 17 Clondalkin Industrial Estate

- 3. The applicants are requested to submit details of the existing operation on site,
- (i) an outline of goods stored,
- (ii) details of the numbers employed,
- (iii) details of hours of operation,
- (iv) details of the numbers and time of delivery traffic into and out of the site.
- 4. With regard to the proposed extension, the applicant is requested to clarify,
- (i) what purpose it is intended to use the proposed warehouse extention for,
- (ii) details of any likely increase in the numbers employed at the site,
- (iii) details of the expected increase in delivery traffic into and out of the site.
- 5. The applicant is requested to submit details of how it is intended to cater for car and truck parking and loading on site in accordance with Development Plan Standards.
- 6. The applicant is requested to submit detailed proposals for the landscaping and boundary treatment of the site.
- 7. From site inspection it was noted that there are a number of containers located on the site. The applicant is requested to clarify (i) the use of these containers, (ii) whether planning permission has ever been sought or granted in respect of these structures. If not, the applicant is advised to regularise this situation.

Additional Information on this application was submitted on 12th August, 1991.

A revised site map identified the entire site outlined in red.

Revised drawings were submitted which reduced the width of the proposed building by 2 metres. The applicant's state that this results in a reduction in a level of site coverage of 59.9% which they contend is less than that permitted at adjoining sites.

With regard to the existing operation on site the goods stored are furniture and household goods. 5 no. staff are employed in the offices and 4 no. in the warehouse. Normal hours of operation are 8.00 - 5.30 p.m. and there area 3 - 4 deliveries into and out of the site per day.

With regard to the proposed extension the applicants note that similar goods

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0844

Page No: 0003

Location: Site 17 Clondalkin Industrial Estate

i.e. household goods will be stored. An additional 6/7 staff will be employed and there will be an increase in traffic of 3/4 trucks per day.

With regard to car parking the applicants state that parking for 24 cars can be provided, which they state is in excess of that needed to cater for staff and visiting traffic. There will be no provision for truck parking - at present trucks are parked in warehouse at night for security purposes. According to the submission truck deliveries will unload at doorways on the east and west or will drive through the warehouse and unload inside. A new entrance is now proposed off Canal turn (close to entrance with adjoining factory) to facilitate truck access and car parking in front of building.

The applicants state that it is intended to plant shrubs/trees etc. on completion of proposed development.

With regard to containers on site the applicants note that they house goods which will be stored in the proposed extension.

The revised submission reduces the floor area of the proposed building by c. 70 sq. metres. While this is only a small decrease in the context of the size of the overall development, it allows for an increase in the circulation area/parking. The proposed new entrance will also allow for improved circulation around the site. This entrance will be within c. 56 metres of the entrance to the adjoining site. This is considered acceptable given the level of traffic proposed.

Additional car parking has been indicated on lodged plans i.e 24 spaces. While this is substantially less than that required to meet development plan standards it appears adequate to meet the staffing requirements at the existing and proposed warehouse.

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following (1) conditions:-

CONDITIONS / REASONS

Ol The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by additional information received on 12th August 1991 save as may be required by the other conditions attached hereto.

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0844

Page No: 0004

Location: Site 17 Clondalkin Industrial Estate

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 Act, 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 That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council. REASON: In order to comply with the Sanitary Services Acts, 1978 -1964.
- 06 That no industrial effluent be permitted without prior approval from Planning Authority. REASON: In the interest of health.
- 07 That the area between the building and roads must not be used for truck parking or other storage or display purpose, but must be reserved for car parking and landscaping as shown on lodged plans. REASON: In the interest of the proper planning and development of the area.
- 08 That details of landscaping and boundary treatment to be submitted and approved by the Planning Authority and work thereon commenced prior to the occupation of the proposed development. In this regard a strip of land 5 th side of the property and work boundaries

 08 REASON: In the interest of the proper planning and development of the area.
- 09 That no advertising sign or structure be erected except those which are exempted development, without prior approval of Planning Authority. REASON: In the interest of the proper planning and development of the area.

details regarding the proposed access o be egreed the common recop ~

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0844
Page No: 0005
Location: Site 17 Clondalkin Industrial Estate
11. That the student be used for warshowing purposes to take place.
11. That the structure be used for warshowing purposes only as proposed in application on manufacturing nocesses to take place. Leave: hafficient offstut car partial facilities are available to compy with Dureleyment the standards.
12. That a financial contribution in the sum of £7,948. Be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development, and which facilitate this development; this contribution to be paid before the commencement of development on the site.
REASON: 12. The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the development should contribute towards the cost of providing the services.
Endorsed:- for Principal Officer
Order: A decision pursuant to section 26(1) of the Local Government (Planning and Development) Acts, 1963-1990 to GRANT PERMISSION for the above proposal subject to the (IV) conditions set out above is hereby made. Dated: 10V ASSISTANT CITY & COUNTY MANAGER
to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 4 September, 1991.
Octobel

(W)

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Register Reference: 91A/0844

Date : 29th May 1991

Development: Extension to existing warehouse and offices

LOCATION

: Site 17 Clondalkin Industrial Estate

Applicant

: Nat Ross

App. Type

: PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 23rd May 1991

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

Date received in Sanitary Services 6. JUN 1991

SAN SERVICES

FOUL SEWER

Provision of the Mark Polletic Act.

PLANNING DEPT.

DEVELOPMENT CONTROL SECT

Date

Date

SURFACE WATER

Plantage

Surface water

Plantage

Surface water

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

d.9.

M.

DEVELO Date Time: Register Reference: 911/0844	PMENT CONTROL SECT State: 29th May 1991
ENDORSED	DATE
Water SUPPLY Noto a silable Scienting rights to be	
endorsed 39000 I	DATE 10/2/9/

Record of Executive Business and Manager's Orders

Proposed construction of an extension to existing warehouse and offices at Site 17. Clondalkin Industrial Estate, for Nat Ross.

Rooney Associates, 100 South Circular Road, Dublin 8. Reg. Ref. Appl. Rec'd: Floor Area: 91A/0844 23/5/91 984.47sq. m.

Site Area:

4100sq. m.

Zoning:

Report of the Dublin Planning Officer, dated 17 July 1991

This is an application for PERMISSION for an extension to an existing warehouse and offices at site 17, Clondalkin Industrial Estate, for Nat Ross.

The proposed site which has an area of c.1 acre (4100sq. metres) is located at the junction of Crag Terrace and Canal Turn in the Clondalkin Industrial Estate in an area zoned 'E' - "to provide for industry and related uses" in the Dublin County Development Plan 1983.

This site is rectangular in shape and is surrounded by low walls at the Crag Terrace and Canal Turn frontages. The boundary with the adjoining site to the east comprises a wire fence. There is a 2m. high block wall and wire fence along the northern boundary. The southern boundary at Canal Turn has been landscaped.

Existing buildings on site include a large warehouse of floor area 922sq. metres and associated office accommodation.

Reg. Ref. No. 85A/116 refers to a grant of planning permission for alterations and extension of offices at Unit 17, Nat Ross Ltd.

From site inspection it was noted that there are several containers (c.10 no.) located on this site which are possibly used for storage purposes. These are not indicated on drawings lodged and the applicants do not mention them in their application. There is no evidence from the planning Register of permission ever having been granted for these structures (temporary or otherwise).

The current application provides for the construction of a warehouse and office extension of floor area 984.47sq. metres. This is to be located to the north of and would effectively double the floor area of the existing facility on site.

Contd/....

Record of Executive Business and Manager's Orders

Proposed construction of an extension to existing warehouse and offices at Site 17, Clondalkin Industrial Estate, for Nat Ross,

This would result in a level of site coverage of c.63% taking site coverage as the proportion of the area behind the building lines at both Crag Terrace and Canal Turn which is covered by buildings. The proposed development would result in a level of site coverage of c.57% taking site coverage as the proportion of the site covered by buildings behind the building line at Crag Terrace (on which the main entrances to the site are located). This is significantly in excess of the 45% normally permitted in areas zoned 'E'.

Such a high level of site coverage is considered undesirable. In this instance, because of the location of the proposed buildings on site, it would restrict circulation around the site and would significantly reduce the areas available for car parking, loading, unloading etc.

Lodged plans provide for 2 no. entrances to the new extension on the eastern and western elevations. 7 no. car parking spaces are identified to the west of the building adjoining the northernmost entrance at Crag Terrace. It is noted that some car parking spaces are required to serve the entire development and meet Development Plan Standards. Some 30 no. spaces would be required to accommodate the proposed extension to Development Plan Standards. A certain proportion of car parking could be provided around the site boundaries. However, this would be likely to conflict with heavier delivery traffic etc.

No details have been submitted by the applicants regarding the use of the existing or proposed warehouse, from site inspection it was noted that the existing warehouse is used by Nat Ross Ltd., for the storage of goods for house removals etc. There were only c.5 cars parked on site (on the site of the proposed offices) and it is considered unlikely that such a warehousing activity would generate a parking requirement to Development Plan Standards. However, the applicant should be required to clarify this matter by additional information, i.e. numbers currently employed, expected increase in numbers employed, etc., so as to satisfy the Planning Authority that a lesser amount of parking spaces would be sufficient.

The current proposal is considered to be too excessive and would represent overdevelopment of this site. A revised proposal which would leave adequate site areas for parking/circulation etc., would be acceptable. I recommend the applicants be requested to submit Additional Information on this application to clarify inter alia, whether it is possible to provide for a less extensive extension and to clarify the requirements of the applicants Nat Ross Limiteds' Business with regard to parking etc.

Contd/....

- 17

Record of Executive Business and Manager's Orders

Proposed construction of an extension to existing warehouse and offices at Site 17, Clondalkin Industrial Estate, for Nat Ross.

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

- The applicants are requested to submit a revised site location map which identifies the entire site, the subject of the current application outlined in red, i.e. the area of Site 17.
- The proposed development involves the construction of a warehouse and office extension of floor area 984.47sq. 2. metres at Unit 17 Clondalkin Industrial Estate. This would effectively double the floor area of the existing building on site and would result in an overall level of site coverage of c.62%. This would be in excess of the level of site coverage normally permitted in areas zoned 'E', i.e. 45% and would result in the overdevelopment of the site. The applicants are requested to submit any proposals they might have to reduce the level of site coverage to a level acceptable to the Planning Authority.
- з. The applicants are requested to submit details of the existing operation on site,
 - (i)
 - (ii)
 - (iii)
 - an outline of the goods stored, details of the numbers employed, details of the hours of operation, details of the numbers and time of delivery traffic (iv) into and out of the site.
- With regard to the proposed extension, the applicant is 4. requested to clarify,
 - (i)what purpose it is intended to use the proposed warehouse extension for,
 - details of any likely increase in the numbers (ii)employed at the site,
 - details of the expected increase in delivery traffic into and out of the site.
- The applicant is requested to submit details of how it is 5. intended to gater for car and truck parking and loading on site in accordance with Nevelopment flat standards
- 6. The applicant is requested to submit detailed proposals for the landscaping and boundary treatment of the site.

Contd/....

Record of Executive Business and Manager's Orders

Proposed construction of an extension to existing warehouse and offices at Site 17, Clondalkin Industrial Estate, for Nat Ross.

7. From site inspection it was noted that there are a number of containers located on the site. The applicant is requested to clarify (i) the use of these containers, (ii) whether planning permission has ever been sought or granted in respect of these structures. If not, the applicant is advised to regularise this situation.

5 (MG/CM)

Endorsed:- for Principal Officer

For Dublin Planning Officer

_ .

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

Dated:

/Q July, 1991.

Assistant City & County Manager.

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

- <u>11</u>	DUBLIN COUNTY COUNCIL		- antmont
uildin Control Departm Iffey House, ara Street, ublin 1.	nent,	Planning Dep Irish Life (Lower Abbey Dublin 1.	Centre,
elephone: 773066	The state of the s	"Telephone: Extension:	724755 231/234
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4th June, 1992		entropy of the second	TP
LOCAL GO	OVERNMENT (PLANNING AND DEVELOPMENT) ACT	s, 1963 TO 1982	
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DCATION:	Site 17 Clondalkin Industrial Estate		
PROPOSED DEVELOPMENT:	Extension to warehouse		· La TV
APPLICANT:	Nat Ross		
PLANNING REG.REF.:	91A/844		
DATE OF RECEIPT	5th May, 1992		- · · · · ·
OF SUBMISSION:		2 4 Maria - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•
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Rooney Associates

Augustine House, Merchants Road, Galway. Telephone: 63030, 65150 Fax: 65150 100 South Circular Road, Dublin 8. Telephone: 543118, 535922 Fax: 535922

DUDLIN COUNTY COUNCIL
Planning Dyp: Registry Section
APPLICATION REGEIVED

05 MAY 1992

Consulting Structural and Civil Engineers

DFR/jw/91/15

4th May, 1992

Dublin County Council, Planning Department, Block 2, Irish Life Centre, Lower Abbey Street, DUBLIN, 1. 4 COUNTY COUNCIL ANNING DEFT. L AECEIVED 5 MAY 1992 REG No. 914

2.3.0

Low

Re: Extension to Existing Warehouse at

Site 17, Clondalkin Industrial Estate

- Ref: P/4621/91

Dear Sirs,

In compliance with Condition No.8 of the above planning permission, we enclose herewith one copy of our Drg. No: 91/15/1 together with landscaping scheme prepared by Finola Reid for your approval.

. ...

Yours faithfully,

Dermot F. Rooney, ROONEY ASSOCIATES

Encls.

Directors

Dermot F. Rooney BE, CEng, FiStructE, MICE, FIEI, MConsEl Irene T. Rooney (Secretary)

Associates Donal M. Crowley BE, CEng. MIEI, MConsEl Francis J. Doherty BSc (Eng), C.Eng, MIStructE Multidisciplinary Engineering Resources Group Europe
A European Network of established Consulting Engineering Firms



_ Finola Reid _____

Plants & Gardens 17 Parnell Road, Harold's Cross, Dublin 12. Tel. 01-541980.

For the attention of me S. Farrell:

Enclosed please find diamings for two

Points to note: -

- i) Existing grass border on banal Jum to be improved by addition of infill planting of Ledge.
- 2. Three new trees of good ecological standing to be used to increase visual impact
- 3. 50 new plants to be planted using flant material of named origin suitable for this site and giving a range of leaf textures and colours to enchance the led.
- 4. Bed to be finished with a high quality take mulch.
- 5. Bed will be fertilised with a seaweed meal and benemeal to ensure Kapid settling in and growth of new plantings.

 (. Trees to be staked a treed with offurfiale suppose

_ Finola Reid _____

Plants & Gardens 17 Parnell Road, Harold's Cross, Dublin 12. Tel. 01-541980.

PAGE TNO

New should border on boundary of beogriferrace. Points to note:-

-) Fine trees of good grade and qualify in the 8-10 CM just (8.5.) to be used. These will be stated - tied + trained.
- 2. Shows sie chan to ensure a good colour schene all year hound. They will be of top ketail quality premium grade. This is reflected in the frice list for same.
- 3. Bed will be composed of 20 cubic meters of Wicklow loam sufflied from reputable source, free of weeds, glass etc.
- 4. Bed will be fertelæd, peat added, boneneal used when planting.
- 5. Bed will be desired with 2" cover of high quality book mulch supplied from Kinbark, bo. Wexford.

SHRUB + TREE PLANTINGS ON BOUNDARY OF CANAL TURN.

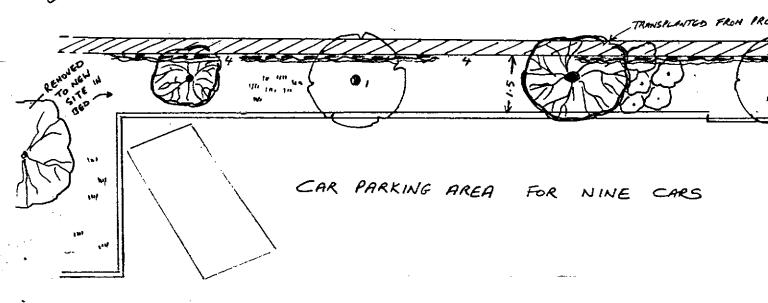
- 1. QUERCUS RUBRA
- 2. QUERCUS RUBRA
- 3. QUERCUS RUBAR
- 4. INFILL WITH PRINET HEDDING TO MATCH EXISTING ONES (36 PLANTS)

FIFTY ASSORTED PLANTS TO GIVE GROUND COVER AND SHELTER.
THESE WILL COMPRISE:

- 8 PHILADELPHUS IN VARIETY
- 3 CORYLUS PURPUREA
- 5 PEROVSKIA ATRIPLKIOLIA
- 3 TEUCRIUM FRUTICANS
- 3 CARYOFTERIS X CLANDONENSIS
- 20 HELIANTHEMUMS IN VARIETY BEN FHADA; ROSE OF LEESWOOD ETC IN
- 3 OZOTHAMNUS LEDIFOLIUS
- 5 PARAHESE CATARRACTAE

PROPOSED NEW

PUBLIC FOOT



FINOLA REID PLANTS & GARDEN

17 PARNELL ROAD, HAROLDS CROSS. DUBLIN, 12. TEL 541980

GROUPS

PATH

REQUIRING INFILL OF 36 EXTRA PLANTS

THE SUITABLE FOR

CHANGING TO SHRUB BED WITH 50

ASSOCIED SHRUBS AND PERENNIALS.

SEE ATTACHED PLANT LIST FOR DETAIL OF

GENERA, SIECIES AND CULTURAS.



= EXISTING TREES INCLUDING LARGE
TRANSPLANTED TREE FROM DREA OF NEW
ENTRANCE

PLANTING LIST L. TO RIGHT:-

PITTOSPERUM TENUIFOLIUM PURPUREUM

PYRUS SALICIFICLIA PENDULA'

BERBERIS ROSE GLOW'

ATRIPLEX HALIHUM 10

COTINUS COGGRYIA ROYAL PURPLE

1 BETULA UTILIS V. JACQUEHONTIAE

= 8 HEBE GREAT ORME.

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POTENTILLA SNOWFLAKE'

= 24

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= 3 BERBERIS X OTTOWENSIS 'SUPERBA'

BETULA UTILIS TACQUENONTAE

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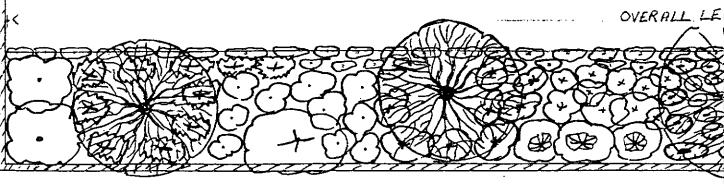
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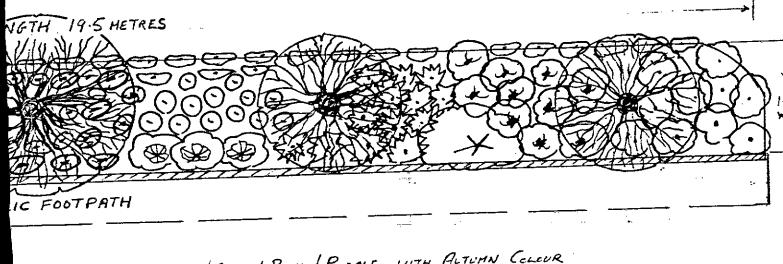
FINOLA REID PLANTS & GARDEN

17 PARNELL ROAD, HAROLDS CROSS, DUBLIN, 12. 131 541980

NEW WAREHOUSE EXTENSION

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1/	CANOPY
	,
E	

CONCRETE APRON



HEHE OF SILVER | WHITE | GREY | PINK | PURPLE WITH ALTUMN COLOUR



Dublin County Council Comhairle Chontae Atha Cliath

Planning Department



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

		sociates,	
100 Sou	ıth	Circular	Road,
Dublin	8.		

Reg. Ref.: 91A/0844

10 October 1991

Re:	Permission offices at	for	exte	ension Clonda	to alkim	exísting n Industr	waı ial	rehouse Estate	and for
	Nat Ross.								

I, the undersigned, hereby acknowledge receipt of Notification of Decision, dated 10 October 1991, in connection with the above.

Signed:

On behalf of:

__(Name)

(Address)

100 South Cercular Fold.

I hereby certify that the above Notification, dated 10 October 1991, was handed by me to the above signed today.

SIGNED:

10.10.91

DATED:

-

DUBLIN COUNTY COUNCIL

Tel. 724755 (ext. 262/264)

7

IMPORTANT: Turn overleaf for further information

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

Notification of Decision to Grant Permission

Local	Government (Planning	and	Develo	pment	Acts,	1963-198	<u>3</u>
			(c+)	· · · · · · · · ·	f i i j	bubas :	· 6- 1

	Order P/4621/91 - 10.10.1991		
100 South Circular Road,	nd Date		
er den de de la companyación de la	Reference No.		
Dublin 8.	Control No		
Nat Ross Application	n Received on		
Applicant			
In pursuance of its functions under the above-mentioned Acts, the Dubli the County Health District of Dublin, did by Order dated as above make a extension to existing warehouse and of Industrial Estate	n County Council, being the Planning Authority for decision to grant Permission for:- ffices at site 17 Clondalkin		
The state of the s	Buddhala an Arrette alle Atzailleanna. Bankan an an Arrette alle ar		
SUBJECT TO THE FOLLOWING CONDITIONS			
CONDITIONS	REASONS FOR CONDITIONS		
transport of the second of the	St. Tall to the state of the st		
1. The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by additional information received on 12th August, 1991, save as may be required by the other conditions attached hereto. 2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development. 3. That the requirements of the Chief	1. To ensure that the development shall be in accordance with the permission and that effective control be maintained. 2. In order to comply with the Sanitary Services Acts, 1878-1964.		
strictly adhered to in the	of fire hazard.		
4. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.	4. In the interest of health.		
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·			
and the state of t	For Principal Officer 10th October, 1991.		
	Health District of Dublin, did by Order dated as above make a decision to grant Permission. Extension to existing warehouse and offices at site 17 Clondalkin Industrial Estate. The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as many be required by the other conditions attached hereto. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development. The development of the Chief Fire Officer be ascertained and strictly adhered to in the development. The development of the Chief Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.		

- 5. That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council.
- 6. That no industrial effluent be permitted without prior approval from Planning Authority.
- 7. That the area between the building and roads must not be used for truck parking or other storage or display purpose, but must be reserted for car parking and landscaping as shown on lodged plans.
- 8. That details of landscaping and boundary treatment to be submitted and approved by the Planning Authority and work thereon commenced prior to the occupation of the proposed In this regard a strip development. of land 5 ft. wide to be reserved for landscaping purposes adjoining both ROAD boundaries.
- 9. That no advertising sign or structure be erected, except those which are exempted development, without prior approval of the Planning Authority.
- 10. That details regarding the proposed access onto Canal Turn be agreed with the Council's Roads Department prior to the commencement of development on site

contd.;./

- In order to comply with the Sanitary Services Acts 1878-1964.
- 6. In the interest of health.
- In the interest of the proper planning and development of the area.
- 8. In the interest of the proper planning and development of the area.
- 9. In the interest of the proper planning and development of the area.
- 10. In the interest of traffic safety...

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

7

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

An appeal shall be in writing and shall state the subject matter and grounds of the appeal. It should be addressed to:-An Bord Pleanala, Blocks 6 and 7, Irish Life Centre, Lower Abbey Street, Dublin 1.

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

Approval of the Council under Building Bye-Laws must be obtained and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced. FUTURE PRINT LTD.

DUBLIN COUNTY COUNCIL

Tel. 724755 (ext. 262/264)

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

Notification of Decision to Grant Permission

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

Rooney Associates, De	-ber and Data
100 South Circular Road, Be Dublin 8.	91A/0844
Beauty 2 day of the second	gister Reference No.
Plan 8.	anning Control No
Ar	milication Received on
Nat Ross.	Floor Area: 914 sq. metres.
Applicant	
In pursuance of its functions under the above-mentioned Acts, the	ne Dublin County Council, being the Planning Authority for
the County Health District of Dublin, did by Order dated as above extension to existing warehouse a	make a decision to grant Permission/Approved for:-
Industrial Estate.	
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DUD TOT TO THE FOLLOWING CONDITIONS	
SUBJECT TO THE FOLLOWING CONDITIONS	DEACOND FOR CONDITIONS
CONDITIONS	REASONS FOR CONDITIONS
11. That the structure be used for	11. Insufficient off-street
warehousing purposes only as proposed	1 Fr
application and no manufacturing proce	esses available to comply with
to take place.	Development Plan Standards
12. That a financial contribution in t	the 12. The provision of such
sum of £7,948 be paid by the proposer	services in the area by the
the Dublin County Council towards the	cost Council will facilitate the proposed development. It is
of provision of public services in the area of the proposed development and w	
facilitate this development; this	the developer should
contribution to be paid before the	contribute towards the cos
commencement of development on the sit	ce. of providing the services.
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Circular hehalf of the Dublin County Council	
Signed on behalf of the Dublin County Council	For Puncinal Officer
ografie de la composition della composition dell	10th October 1991
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IMPORTANT: Turn overleaf for further information	

REASONS FOR CONDITIONS CONDITIONS

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FUTURE PRINT LTD.

Dublin County Council Comhairle Chontae Atha Cliath

Planning Department

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



Bloc 2, Ionad Bheatha na hÉireann, 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/0844

Date: 13th August 1991

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

Dear Sir/Madam,

DEVELOPMENT : Extension to existing warehouse and offices

LOCATION : Site 17 Clondalkin Industrial Estate

APPLICANT : Nat Ross

APP. TYPE : Additional Information

With reference to the above, I acknowledge receipt of your application received on 12th August 1991.

Yours faithfully,
for PRINCIPAL OFFICER

Rooney Associates, 100 South Circular Road, Dublin 8.



Consulting Structural and Civil Engineers

49 William Street, Galway. Telephone: 63030, 65150 Fax: 65150

100 South Circular Road, Dublin 8. Telephone: 543118, 535922 Fax: 535922

DFR/jw/91/15

9th August, 1991

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

12. AUG 91

Proposed Construction of an Extension to Re: Existing Warehouse and Office at Site 17, Clondalkin Industrial Estate, for Nat Ross Ltd. Reg. Ref. No: 91A/0844

12.0.AI 9177/0844

"ADDITIONAL INFORMATION"

Dear Sirs,

We refer to your letter dated 19th July, 1991 in connection with the above and wish to reply as follows to your request for additional information.

- We enclose herewith four copies of Drawing No. 91/15/05 which is a site plan indentifying the entire site (Site 17).
- We enclose 4 copies of Drawing No. 91/15/1B and 91/15/3A which show a reduction in span of the proposed extension of 2 metres. We have calculated that this reduction in floor area reduces the level of site coverage to 59.5% which is less than that permitted for nearby buildings, which have a similar large frontage to the public road.

We have, for instance, calculated the site coverage buildings on Site 14 to be 69.8% and for Site 15 to be 59.8% (See Drg. No. 91/15/5).

We would also submit that the site coverage requirement quoted by you of 45% is not appropriate in this case where the building is a specialist warehouse designed to store standard size storage crates. A condition of the planning permission granted for the existing building on this site (P/4223/78: 16/10/78) was that the building should be used only for warehousing purposes and that no production or manufacturing processes be carried out therein. Four copies of the planning permission are enclosed herewith.

3. Requested Details of thee Existing Operation on Site:

- (i) The goods stored in the existing building are furniture and household goods which are packed into standard wooden crates (approx. 2.2M long x 1.6M wide x 2.4M high) and stacked four crates high.
- (ii) 5 No. Staff are employed in the offices and 4 No. staff in the warehouse.
- (iii) Normal working hours are 8.00 am to 5.30 pm with overtime only being necessary for warehouse staff when deliveries are made outside these hours which is not a regular occurrence.
 - (iv) Normal traffic movement into and out of the site amounts to 3/4 trucks per day.

4. Requested Details relating to the Proposed Extension

- (i) The proposed extension will be used to house the same goods as are stored in the existing building, i.e. furniture and household goods which will also be packed in standard timber crates.
- (ii) An extra 6/7 staff will be employed.
- (iii) The increase in normal traffic will be of the order of 3/4 trucks per day.

5. Requested Details on Car and Truck Parking

The revised Site Layout (Drg. No: 91/15/01B) shows that parking for 24 No. cars can be provided, which we would submit is in excess of what would be needed when staff numbers and visiting traffic requirements are considered.

There would be no provision for parking of trucks. The present practice is that trucks are stored in the warehouse at night for security purposes.

Trucks delivering to the warehouse will unload at doorways on the East and West sides of the warehouse or will drive through into the warehouse to be unloaded inside. In order to facilitate truck access to the East side doorways of the warehouse and to allow car parking in front of the offices, it is now proposed that a new entrance be opened off Canal Turn as shown on Drg. No. 91/15/01B.

6. Details of Landscaping

On completion of the proposed development it is proposed to improve the general appearance of the site by the planting of trees, shrubs and grassed areas.

7. Existing Containers on Site

These containers house goods which will be stored in the proposed warehouse extension.

We also enclose herewith cheque in the amount of £3,447.50 being fee for Bye-Laws omitted on our application.

Yours faithfully,

Dermot F. Rooney, ROONEY ASSOCIATES

Encls.

c.c. Mr. Andrew Purcell

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N. COUNTY COUNC PLANNING DEPARTMENT, 43 9 Tel. 742951-(Ext. 143/145) 46 - 49 DAME STREET. and a contestation of the second of the seco Eur 1922 Seems lo spots i removale de la companya d 11 : 115anc 905 Cocal Government (Planning and Devalopment) Acts, 1963 & 1976 : 20 917 9 915 Ve 21 49 924 County Health District of Dublin, did by Order dated as above make a decision to grant Permission/ADXXXXXX for:-Warehouse building and offices at Clondalkin Ind. Estate, Ballymanagin, Clondalkin, Co; Dublin. NAT. Ross - 7. OBJECT TO THE FOLLOWING CONDITIONS: E. Tage to accept the state of something the creeken REASONS FOR CONDITIONS OF THE TOTAL OF THE POST OF THE CONDITIONS Subject to the conditions of this permission the destruction to be carried out and completed strictly be in accordance with the permission and effective control be maintained. in accordance with the plans and specification a sodescription. lodged with the application. That before development commences approval under the 2. In order to comply with the Sanitary Building Bye-laws be obtained and all conditions of Services Acts, 1878-1964. that approval be observed in the development. That the requirements of the Chief Fire Officer be 3. In the interest of safety and al avoidance of fire hazard. ascertained and complied with in full before the structure proposed in the development are put into It the requirements of the Chief Medical Officer be 4. In the interest of health. ascertained and adhered to in this development. In order to comply with the Sanitary That the water supply and drainage arrangements be Services Acts, 1878-1964 in accordance with the requirements of the Council's Stary Services Engineer. To prevent unauthorised development. That the proposed building be used for warehousing purposes and ancillary offices and no production or manufacturing processes to be carried out. That off-street car parking and loading and unloading 7,

In the interest of the proper planning and development of the area.

8. In the interest of road safety.

facilities be provided in accordance with Development / Plan Standards. Circulation aisles to be 20-ft. 1897 - 17 M That prior to occupation of the proposed building all work must be completed on the new vehicular access from the site to the Clondalkin/Palmerstown Road and conditions attached to decision Order No: P/467/76 dated 16/2/76 relating to the general development of the estate, shall have been complied Signed on behalf of the Dublin County Council Council County Council County Council County Council County Council Council County Council Coun with.

for Principal Officer

17th October, 1973.

1 2 AUG 1991

IMPORTANT: Turn overleaf for further information. 914 0844 Fitter APPLICATION THE

CONDITIONS TO CONTINUE OF THE PROPERTY OF THE That the applicant submit further details of proposed connections to public foul sever to Sanitary Services Engineers. In this regard there appears to be an error in the details submitted of the canection to the estate sever.

That a financial contribution in the sum of £2,025 be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development, and which facilitate this development; this contribution to be paid before the commencement of development on the site.

That no development takes place until such time as the necessary security provisions for the completion of development works in accordance with decision dated 16/2/76, Order No: P/467/76 have been coupled to 2. That details of a standard boundary treatment and landscaping scheme be submitted for approval of Planning Authority and work thereon to be completed prior to occupation of building. In this regard boundary to be reserved for shribs and suitable planting. 3. That no advertising sign or structure be erected except those which are exempted development, without

the prior approval of the Planning Authority. the prior approval of the Planning Authority.

4. That the area between the building and adjoining adjoining and adjoining and adjoining and adjoining adjoining and adjoining and adjoining adjoining adjoining and adjoining adjoining and adjoining adjoining and adjoining adjoining adjoining adjoining and adjoining adjoini

roads be used solely for car parking and landscaping mos planning and developmen and must not be used for storage purposes of any of libers area and of still description.

15. That the applicant regrade and realign and clearthe Gallanstown Stream from County Council culvert to the end of the site at his expense as agreed in discussion with Sanitary Services ? partment.

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Tooling Inc

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to comply 9. In order Services Acts, 1878-1964.

the provision of these shall the area by the Coulcilivity facilitate the provosed beyon It is considered Teasonable the developers should towards, the cost of PLO the services. planning and development

imij. Francott i i i di 12. In the interest of the proper planning and development of the are

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13. To prevent unauthorised

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15. To ensure a satisfactory of development. 2301-200 Shiplibus Eligiparoval is commented dans regulrements niedrabina ತ್ತಾರಂ ವಿಗಾ ಶಿಲ

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for Principal

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If there is no appeal to An Bord Pleanala against this decision PERMISSION/APPROVAL will be granted by the Council as soon NOTE: as may be after the expiration of the period for the taking of such appeal. If every appeal made in accordance with the Acts has ig in GW He to build like In been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

An appeal against the decision may be made to Bord Pleanala. The applicant may appeal within one month from the data of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty-one days beginning on the date of the decision. J. S. S. 186

State of the State An appeal shall be in writing and shall state the subject matter and grounds of the appeal, it should be addressed to:-

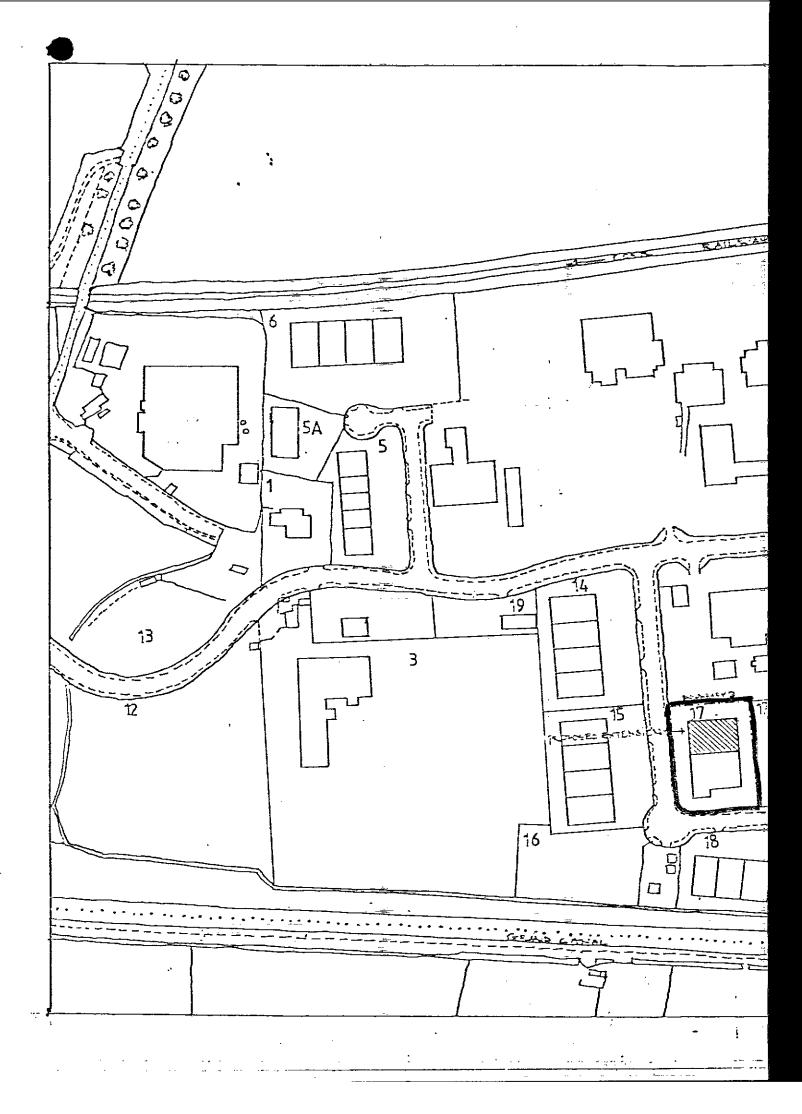
An Bord Pleanala, Holbrook House, Holles Street, Dublin 2.

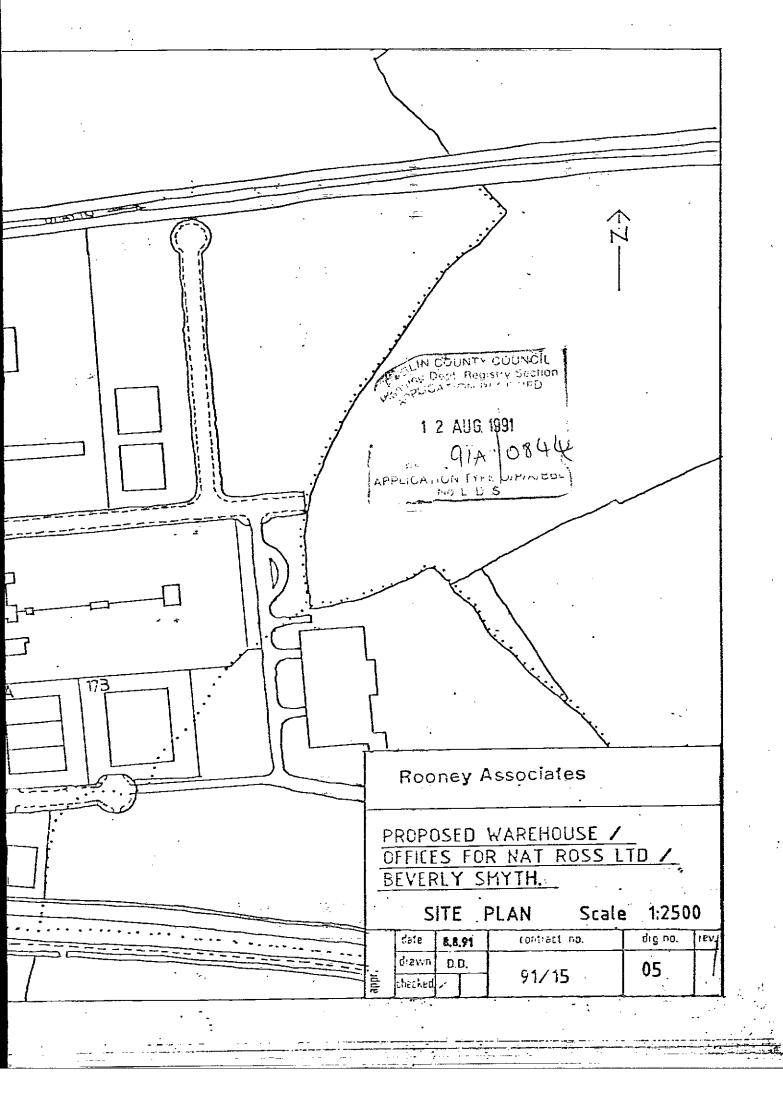
An appeal by the applicant for PERMISSION/APPROVAL should be accompanied by this form and a deposit of £10.

Approval of the Council under Building Bye-Laws must be obtained and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced.

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PULL SCRATCRE





Rooney Associates, 100 South Circular Road, Dublin 8. Reg. Ref. No. 91A/0844

19 July 1991

Re: Proposed construction of an extension to existing warehouse and offices at Site 17, Clondalkin Industrial Estate, for Nat Ross.

Dear Sir,

With reference to your planning application, received here on 23rd May, 1991, 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, 1963-1983, the following additional information must be submitted in quadruplicate:

- 1. The applicants are requested to submit a revised site location map which identifies the entire site, the subject of the current application outlined in red, i.e. the area of Site 17.
- The proposed development involves the construction of a warehouse and office extension of floor area 984.47sq. metres at Unit 17 Clondalkin Industrial Estate. This would effectively double the floor area of the existing building on site and would result in an overall level of site coverage of c.65%. This would be in excess of the level of site coverage normally permitted in areas zoned 'E', i.e. 45% and would result in the overdevelopment of the site. The applicants are requested to submit any proposals they might have to reduce the level of site coverage to a level acceptable to the Planning Authority.
- The applicants are requested to submit details of the existing operation on site,

(i) an outline of the goods stored,

(ii) details of the numbers employed,

(iii) details of the hours of operation,

(iv) details of the numbers and time of delivery traffic into and out of the site.

Contd..../

4. With regard to the proposed extension, the applicant is requested to clarify,

requested to clarify,

(i) what purpose it is intended to use the proposed warehouse extension for,

(ii) details of any likely increase in the numbers employed at the site,

(iii) details of the expected increase in delivery traffic into and out of the site.

- 5. The applicant is requested to submit details of how it is intended to cater for car and truck parking and loading on site, in accordance with Development Plan Standards.
- 6. The applicant is requested to submit detailed proposals for the landscaping and boundary treatment of the site.
- 7. From site inspection it was noted that there are a number of containers located on the site. The applicant is requested to clarify (i) the use of these containers, (ii) whether planning permission has ever been sought or granted in respect of these structures. If not, the applicant is advised to regularise this situation.

Please mark your reply "Additional Information" and quote the Reg. Ref. No. given above.

Yours faithfully,

for Principal Officer.

Dublin County Council Comhairle Chontae Atha Cliath

Planning Department

Building Control Department, Liffey House, Tara Street, Dublin 1. Telephone:773066 Bioc 2, Ionad Bheatha na hÉireann, 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/0844

Date : 24th May 1991

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

Dear Sir/Madam,

DEVELOPMENT: Extension to existing warehouse and offices

LOCATION : Site 17 Clondalkin Industrial Estate

APPLICANT : Nat Ross

APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to above, I acknowledge receipt of your application received on 23rd May 1991.

Yours faithfully,

PRINCIPAL OFFICER

Rooney Associates, 100 South Circular Road, Dublin 8.

Dublin County Council Countie Chontae Atha Cliath



Planning Application Form/ Bye - Law Application Form

PLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.
 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 17, Crag Terrace, Clondalkin Industrial Estate, (If none, give description sufficient to identify). Clondalkin, Co. Dublin.
3. Name of applicant (Principal not Agent) Nial Doris
Address C/o Nat Ross, Unit 17, Clondalkin Industrial Estate. Tel No. 571011
4. Name and address of Rooney Associates, person or firm responsible 100 South Circular Road, Dublin, 8. Tel. No 543118
5. Name and address to which Rooney Associates, notifications should be sent 100 South Circular Road, Dublin, 8. 8. Brief description of
proposed development Extension to existing warehouse and offices 23 May
7. Method of drainage to public sewer 8. Source of Water Supply Wains TION
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. Warehouse and Offices
(b) Proposed use of each floor Warehouse and Offices
10 Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof?
11.(a) Area of Site
[122.82 24/5]
(b) Floor area of proposed development
(c) Floor area of buildings proposed to be retained within site
12.State applicant's legal interest or estate in site (i.e. freehold, leasehold, etc.) Freehold.
13.Are you now applying also for an approval under the Building Bye Laws? Yes ☑ No ☐ Place ✓ in appropriate box.
14.Please state the extent to which the Draft Building Regulations have been taken in account in your proposal;
In accordance with Draft Building Regulations
15,List of documents enclosed with
CO. DUBLIN - Nat Ross is 4 Sets of Drawing Nos: 91/15-01, 02, 03 and 04; Structural applying to Dublin County Coun-
chilor permission to construct an extension to existing warehouse Calculations and copy of newspaper advertisement.
Industrial Estate. 984.47 Sq. m.
No of dwellings proposed (if any)
Fee Payable £1722.82 Basis of Calculation £1.75 per M ² . If a reduced fee is tendered details of previous relevant payment should be given
Signature of Applicant (or his Agent) Detailed Date 2/5/199/
Application Type P/BBL FOR OFFICE USE ONLY Register Reference 9) A 0844 Amount Received £ 17-16
Receipt No

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

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

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

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

INDUSTRIAL DEVELOPMENT:

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

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

SUMMARY OF CLASSES OF DEVELOPMENT/FEES

CLASS NO.	DESCRIPTION	<u>fee</u>	
1. 2. 3. 4.	Provision of dwelling - House/Flat. Domestic extensions/other improvements. Provision of agricultural buildings (See Regs.) Other buildings (i.e. office, commercial, etc.) Use of land (Mining, deposit or waste).	£32.00 each. £16.00 each. £40.00 minimum. £ 1.75 per sq.metre (Min. £40.00). £25.00 per 0.1 ha. (Min. £250.00).	
6. 7.	Use of land (Camping, parking, storage). Provision of plant/machinery/tank or other structure for storage purposes.	£25,00 per 0.1 ha. (Min. £40,00). £25,00 per 0.1 ha. (Min. £100,00).	
8. 9.	Petrol filling station. Advertising structures. Electricity transmission lines.	£100.00, £ 10.00 per sq. m. (Min. £40.00), £ 25.00per 1,000m.(Min. £40.00).	
10. 11.	Any other development.	£ 5.00 per 0.1ha. (Min. £40.00).	

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

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

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

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D BY DUBLIN COUNT 46/49 U	PPER O'CONNELL SEEFET O	N 3973	
4.0. 	£!772.87	14 3313	
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from Conclusion Conc	1 (lonekod, D14		THE TAX SOURCE STORES
the sum of the sum of		ence, being	Pounds
Epplication oil	1 17 Cos Terrous	Clo dalk _ In	CLAS INCE
Michael O Han	Cashier	S. CAREY Principal Officer	

Bye-Law Calculations

for

Proposed Warehouse/Office

for

Nat Ross Ltd./Beverly Smith

RECEIVED

23MAY 1991 91A/0844 REG! SEC.

Rooney Associates, Consulting Engineers, 100, South Circular Road, DUBLIN, 8.

May, 1991

Consulting Engineers

Contract NA	T-R085		Job ref.	91/15
Part of structure	CONTENT	s	Calc. Shee	et No.
Drawing ref.	Calculations by	Checked by	Date	

Members ref.	CALCULATIONS	OUTPUT
~		
	JUDEX to CALCULATIONS	
		PAGE NO.
	GENERAL DESIGN INFORMATION	
	CENERAL DESIGN INFORMATION	
	CODES_AND SPECIFICATIONS	2.
3.	LOADING (ROOF)	
4.	Wind Loading	4
<u> </u>	Purlius & SiDE Rails	5
6	PORTAL FRAME	
	JOBING JOHNS	
7	EQUES CONNECTION	11
_8	Gara Ports	
9.	BRAGING DESIGN	
_10.	FOUNDATION SISING	23
	Stubb bean Connection	24
		· · · · · · · · · · · · · · · · · · ·
	Office Design	26
		-
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<u> </u>		

Consulting Engineers

Contract NAT-ROSS

Job ref. 91/15

Part of structure GENERAL DESIGN Calc. Sheet No.

NFORMATION

Drawing ref. Calculations by Checked by Date

(Tan)

lembers if.	CALCULATIONS	OUTPUT
	,	
Building	ASSUMPTIONS.	
	<u>, , , , , , , , , , , , , , , , , , , </u>	
		Dalum
Roof	Double Stin Metal Dedung or	
-	ou Steel Postal Francs @ 6.	000e/e.
	1 - 1 1 9 11	
FOWDATION	Pad Foundations to Porto	Stanerion Z
		•
~		
1	Stability	
	Stability is provided by the	•
Pantal	Frame action in one direct	tion,
except	- at the two gobben when	e the
	Ossord are bross I will I	,
	the wind Load on the 2	
	·	
bays.		_
In the	other direction wind brace	1-20
1s pre	wided of Each End boy	
. w. y. v. nga -	•	
	•	

Consulting Engineers

Part of structure Cook AND Calc. Sheet No.

Street Figure 1. Calculations by Checked by Date

Supplementary 1. Calculations by Checked by Date

Members

CALCULATIONS

OUTPUT

Codes OF PRACTICE

18.5 5950: 1985 Structural Use of Steelwork in Buildings

B.S 8110: 1985 Structural the of Concrete

CP III. Chapter 5, Part 2 1942: Wind Landing.

3.8. 6399: 1984: Dasign Localing for Buildings.

MATERAL SPECIFICATIONS.

Concrete: Structural Elemente - 30 N 20

Rembercement: High yield stel bors - fy=460m/m2

Structural Steelwork - Grade 43

Consulting Engineers

Contract NAT-ROSS Job ref. 91/15

Part of structure Calc. Sheet No. 3.

Drawing ref. Calculations by Checked by Date

Ç₽

Members ref.	CALCULATIONS	ООТРИТ
Rec	OF LOADING. ROOF PITCH = 18	2 ¹ / ₂ ° .
		kn/mz (on Plow)
· · · · · · · · · · · · · · · · ·	Live Load = Snow Load	= 0.75
estrono e	DEAD LOAD : Double Stim Deck	mg =0.15.
	Porlins	
	Rafter 5/wt	₹ 0 · 0 5 ,
	Sarvices	=0.10
		°0.40
	Gh = 0.4kn/42.	
.	Qx= 0.75 km/m2	
	Wearvice = 1.15 kg	_{ሬን}
	W4H = 1.76kn/	
		·

Consulting Engineers

Part of structure Wind Landing Calc. Sheet No. 4

Drawing ref. Calculations by Checked by Date 11/4/91

1	Members		
•	ref.	CALCULATIONS	OUTPUT

WIND LOADING

Basic Wind speed (Dublin) = Abu/s

5, = 53 = 1.00

[h= 10.6, Class B, Category 3]) 52=0.74

Vs = 34 4/5.

9= 0.71kn/42.

ROOF Cp factors

Wino 1 To Ridge

+0.2/0.3

Wins // To Ridge

40.5

/ = 47 =) 1.38...

h = 10/ = 0.29 A10'S
34 B. 3:04

+0.2

A=-0.5

-0.2

Consulting Engineers

Part of structure Purlius \$\frac{1}{2}\$ \$\frac{1}{2}\$ Calc. Sheet No.

- 4	•	••		 	
	Members ref.		CALCULATIONS		OUTPUT
1				 	

PURLINS

LOADING :

(1) Max Downword lading on Forting.

(Excluding 5-ut) = (0.75)+(0.15)+0.10.

= 1.0 ku/u²

(i) Hox Uplift (wind) = (0.9+0.2) × 0.71 = 0.78 kg/m².

> nett uplift 0.78 - [0.15) + (0.05)]

= 0.58 kg/2 < c 10kg/g/L

=) From Kingapon Catalogue Spor = 6.00m

Hulti-beam Porling Sections.

IGSXMS & 15000/c

bay Single sport.

Sheeting Rails on Sidewalk

Have mind Load/42 = 0.71 (07+0.3) = 0.71 ky/22.

5000 E Gm.

Provide 140 xi45 @ 1500 c/e.
140 x 285 End bay.

Consulting Engineers

Contract NAT-ROSS Job ref. 91/15

Part of structure PORTAL FRAME Calc. Sheet No.

Drawing ref. Calculations by Checked by Date 11/4/9/.

Members ref.	CALCULATIONS	OUTPUT
10.6	8.0	
*	25.5H 0.475h	ે.

LOADING.

- (1) GK ON Refters = 6.000 X 0.4 X Cos 12 = 2.34 km/me (on Slepe)
- (11) Qx cm Relites = 6:000 x 0.75 x Cas 12° * 4:40 km/m.
- (iii) Wk on 1st Rober = 6.000 x 0.9 x 0.41 = -3.83 km/m.

 on 2nd Polto = 6.000 x 0.6 x 0.41 = -2.55 km/m.

 on 3rd Polto = 6.000 x 0.3 x 0.41 = -1.28 km/m.

WK on Windward Stenchen

= 0.7 × 6.000 × 0 M1 3 2.98 km/m.

WK on herword Stenchen.

= 0.2 × 6.000 × 0.71 3 0.852 km/m.

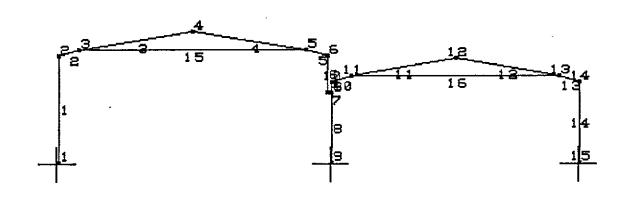
Consulting Engineers

Contract	VAT-ROSS	Job ref. 91/15
Part of structure	Partal Frame	Calc. Sheet No.
Drawing ref.	Calculations by Checked by	Date 11/4/91

Members ref.	CALCULATIONS	OUTPUT

Design for Following Load CASES =

ROONEY ASSOCIATES	PAGE JOB NO. RUN NO.	1 91/15	
NAT-ROSS PORTAL DESIGN	AUTHOR DATE	GMD 11/4/91	
EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) Units: S.I. METRIC (Steel)		MS LTD. 1991 e : PUR1	





2.956242

Materia	l Properties	<u> </u>		·	
ENTRY NO.	TABLE REF./ DESCRIPTION	YOUNG'S MODULUS (kN/mm2)	POISSON'S RATIO	COEFFICIENT OF THERMAL EXP. (/ Deg C)	WEIGHT/UNIT VOLUME (kN/m3)
1 SI	Steel - Deg. C	205	.300	1.200E-05	77

ROONEY ASSOCIATES

PAGE 2
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RUHOR GMD
DATE 11/4/91

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991
Units: S.I. METRIC (Steel)

Data File: PUR1

Joint Co-ordinates

JOINT	(m)	Z (m)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	.000 1.950 12.750 23.550 25.500 25.975 25.975 27.875 37.675 47.475 49.425	.000 10.600 11.200 13.000 11.200 10.600 7.000 7.000 8.000 8.600 10.400 8.600 8.000

Section Properties
N.B. If a Shear Area value field is null (empty),
shear distortions are ignored in the analysis.

SECTIO NO.	N REFERENCE	AREA Ax (cm2)	Iy (cm4)	zMAX (mm)	Az SHEAR AREA (cm2)
	DESCRIPTION				
1	UB/27 533*210*92 UB	1.180E+02	5.540E+04	2.665E+02	5.090E+01
2	UB/32 457*191*74 UB	9.500E+01	3.340E+04	2.286E+02	3.864E+01
3	M150%G2	1.158E+02	8.466E+04	3.429E+02	
4	CHS/12 60.3*3.2 CHS	5.740E+00	2.350E+01	3.015E+01	2.870E+00

Member/Element Incidences

Menmer/Ereme	110 110.	COCITOOD			·
MEMBER/ ELEMENT NO.	NODE 1	NODE 2	NODE 3	NODE 4	MEMBER LENGTH (m)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 2 3 4 5 6 7 8 8 10 11 12 13	2 3 4 5 6 7 8 9 10 11 12 13 14 15			10.600 2.040 10.949 10.949 2.040 3.600 .475 7.000 1.992 9.964 9.964 2.040 8.000

ROONEY ASSOCIATES	PAGE JOB NO. RUN NO.	3 91/15 1	
NAT-ROSS PORTAL DESIGN	AUTHOR DATE	GMD 11/4/91	
EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c)	ENCAD SYSTE	MS LTD. 1991 e : PUR1	

Member/Element Incidences

MEMBER/ ELEMENT NO.	NODE 1	NODE 2	NODE 3	NODE 4	MEMBER LENGTH (m)
15 16	3 11	5 13			21.600 19.600

Member/Element Details

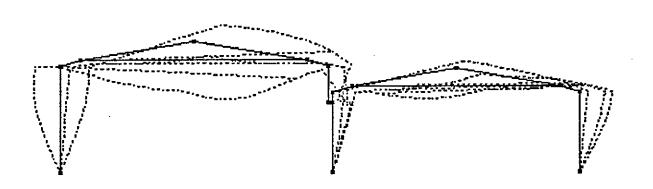
			-
MEMBER/ ELEMENT NO.	y AXIS FLEXURE TYPE NO.	SECTION/ THICKNESS GROUP	MATERIAL GROUP
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	FFF FFF FFF FFF FFF FFF FFF FFF FFF FF	1 3 2 2 3 2 2 1 1 3 2 2 3 1 4 4	1 1 1 1 1 1 1 1 1 1

ROONEY ASSOCIATES

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Units: S.I. METRIC (Steel)

Data File: PUR1



Z E1 : C1,C2,C3

DefXZ.____200 mm

XStrXZ.____20m

NAT-ROSS

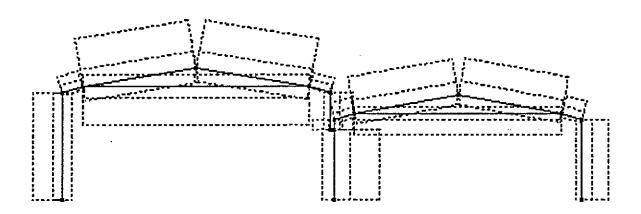
31.03732 2.956242 PAGE 5
JOB NO. 91/15
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AUTHOR GMD
DATE 11/4/91

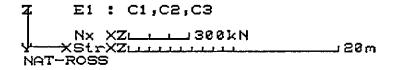
22: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991
Data File: PUR1

E1 : C1,C2,C3

My XZLLLLL500kNm XStrXZLLLLLLLLL ROSS 1.0E-002 2.956242

ROONEY ASSOCIATES	PAGE JOB NO. RUN NO.	6 91/15
NAT-ROSS PORTAL DESIGN	AUTHOR DATE	GMD 11/4/91
EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c)	ENCAD SYSTE	MS LTD. 1991





1.9E-002 2.956242

Envelope	Case	E1	:	C1,	C2,	C3
A					•	

Member	r End	Forces		
MBR .	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
1	1	-46.2826 C3	-42.9660 C1	.0000
1	1	145.5131 C1	41.1829 C3	C1 .0000
1	2	-46.2826 C3	-42.9660 C1	-455.4392 C1
1	2	145.5131 C1	-3.0403 C3	202.1554 C3

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: PUR1

Envelope Case E1: C1, C2, C3

Membe	er End	Forces		
MBR	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
2	2	-10.7052	-45.1301 C3	-455.4392 C1
2	2	C3 83.8593	126.4427 C1	202.1554 C3
2	3	C1 -10.7052	-39.1930 C3	-218.9383 C1
2	3	C3 83.8593 C1	105.3958 C1	116.1366 C3
3	3	-70.4297	-29.4300	-218.9383 C1
3	3	C3 260,5610	C3 83,6998	116.1366 C3
3	4	C1 -70.4297 C3	C1 -29.2498 C1	-31.6660 C3
3	4	260.5610 C1	2.4315 C3	79.1474 C1
4	4	-67.4113	-20.5420 C3	-31.6660 C3
4	4	C3 255.9631 C1	56.8376 C1	79.1474 C1
4	5	-67.4113	-56.1120 C1	-82.1541 C3
4	5	C3 255.9631 C1	11.3195 C3	83.1192 C1
5	5	-5.3057	-78,6643	-82.1541 C3
5	5	C3 75,6342	C1 21.6447	83.1192 C1
5	6	C1 -5.3057	C3 -99.7113	-98.8436
5	6	C3 75.6342 C1	C1 27.5817 C3	C1 -31.9377 C3
6	6	-27.9224	3.0403	-98.8 43 6 C1
6	6	C3 117.5449	C3 42.9660	-31.9377 C3
6	7	C1 -27.9224	C1 7.3344	-13.2631 C3
6	7	C3 117.5449 C1	C3 42.9660 C1	55.8339 C1
7	7	7.3344 C3	-117.5449 C1	-13.2631 C3
7	7	42.9660	27.9224	55.8339 C1
7	8	C1 7.3344	-117.5449	.0000
7	8	C3 42.9660 C1	C1 27.9224 C3	C1 C1
8	8	-65.8592	-12.8098	-122.4058 C3
8	8	C3 225.6743	C1 17.4865	89.6688 C1
8	9	C1 -65,8592	C3 -12,8098	.0000
8	9	C3 225.6743 C1	C1 17.4865 C3	C2 _0000 C3

8 91/15 1 PAGE ROONEY ASSOCIATES JOB NO. RUN NO. AUTHOR DATE NAT-ROSS PORTAL DESIGN 11/4/91

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991
Units: S.I. METRIC (Steel)
Data File: PUR1

Envelope Case E1 : C1, C2, C3

Membe	r End	Forces	· · · · · · · · · · · · · · · · · · ·	<u> </u>
MBR	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
9	8	-37.9368 C3	-55.7758 C1	-89.6688 C1
9	8	108.1294 C1	10.1521 C3	122.4058 C3
9	10	-37.936 8 C3	-55.7758 C1	-145.4446 C1
9	10	108.1294 C1	10.1521 C3	132.5579 C3
10	10	-21.1049 C3	-33.1188 C3	-145.4446 C1
10	10	85.7480 C1	86.3145 C1	132.5579 C3
10	11	-21.1049 C3	-27.3206 C3	6.0585 C1
10	11	85.7480 C1	65.7600 C1	72.3456 C3
11	11	-51.7672 C3	-23.4417 C3	6.0585 C1
11	11	187.5377 C1	55.5643 C1	72.3456 C3
11	12	-51.7672 C3	-47.2237 C1	-16.7735 C3
11	12	187.537 7 C1.	5.5534 C3	47.6110 C1
12	12	-50.3618 C3	-13.2050 C3	-16.7735 C3
12	12	192.0785 C1	22.5017 C1	47.6110 C1
12	13	-50.3618 C3	-80.2862 C1	-240.2695 C1
12	13	192.0785 C1	15.7900 C3	-3.8951 C3
13	13	-18.6148 C3	-90.4150 C1	-240,2695 C1
13	13	92.652 4 C1	20.0400 C3	-3.8951 C3
13	14	-18.6148 C3	-111.4620 C1	-446.2064 C1
13	14	92.652 4 C1	25.9771 C3	43.0474 C3
14	14	-30.3027 C3	-10.1521 C3	-446.2064 C1
14	14	133.7808 C1	55.7758 C1	43.0474 C3
14	15	-30.3027 C3	6097 C3	C3 .0000
14	15	133.7808 C1	55.7758 C1	C1 .0000
15	3	-194.1001 C1	.0000 C1	.0000
15	3	65.9276 C3	C1	C1.0000
15	5	-194.1001	C1 C1	C1 .0000
15	5	65.9276 C3	C1	C1 -0000

9 91/15 1 GMD 11/4/ PAGE JOB NO. RUN NO. ROONEY ASSOCIATES AUTHOR NAT-ROSS 11/4/91 DATE PORTAL DESIGN

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: PUR1

Envelope Case E1 : C1,C2,C3 Member End Forces

MBR	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
16	11	-112.4491	.0000 C1	.0000 C1
16	11	34.7826 C3	.0000 C1	.0000 C1
16	13	-112.4491 C1	0000 C1	.0000 C1
16	13	34.7826 C3	0000 C1	.0000 C1

Envelope Case E1 : C1,C2,C3 Support Reactions

Reactions		
X FORCE (kN)	z force (kn)	Y MOMENT (kNm)
-41.1829 C3 42.9660 C1	-46.2826 C3 145.5131 C1	.0000 C1 .0000 C1
-17.4865 C3 12.8098 C1	-65.8592 C3 225.6743 C1	.0000 C1 .0000
-55.7758 C1 .6097 C3	-30.3027 C3 133.7808 C1	.0000 C1 .0000 C1
	X FORCE (kN). -41.1829 C3 42.9660 C1 -17.4865 C3 12.8098 C1 -55.7758 C1	X FORCE (kN) -41.1829 -46.2826 C3 42.9660 145.5131 C1 -17.4865 -65.8592 C3 12.8098 225.6743 C1 -55.7758 -30.3027 C3 .6097 133.7808

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ROONEY ASSOCIATES

PAGE 1

JOB NO. 91/15

RUN NO. 1

NAT-ROSS
PORTAL DESIGN

EN5950: STEELWORK DESIGN PROGRAM V2.0
Units: S.I. METRIC (Steel)

PAGE 1

JOB NO. 91/15

RUN NO. 1

AUTHOR GMD
DATE 11/4/91

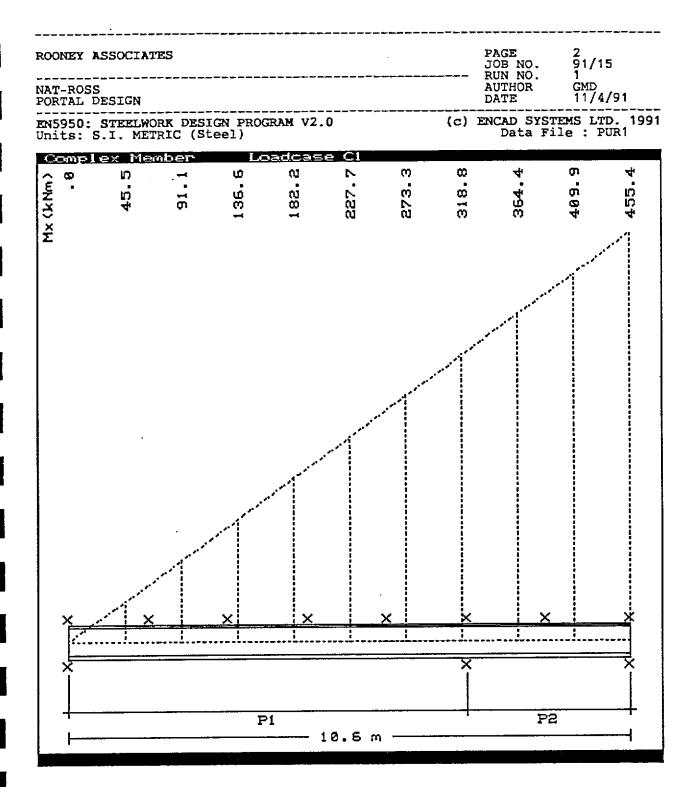
EN5950: STEELWORK DESIGN PROGRAM V2.0
Units: S.I. METRIC (Steel)

Data File: PUR1
```

COMPLEX MEMBER CAPACITY CHECK

Intermediate Flange Restraints
'Top' Flange Spacing (m) = 6*1.5
'Bottom' Flange Spacing (m) = 7.5
Distance of Restraint from Tension Flange = 83 mm a = 349 mm

Complex Member			I	des C1 53	3*210*92 U	B		G	erd 43
LENGTH NO.	START (m)	END (m)	SHEAR CAPACITY	AXIAL/ FLEXURAL	OVERALL BUCKLING		TION ILITY	LOAD/ CAPACITY	TEST RESULT
1 2 3 4 5 6	.000 1.500 3.000 4.500 6.000 7.500 9.000	1.500 3.000 4.500 6.000 7.500 9.000 10.600	.05 .05 .05 .05 .05 .05	.16 .26 .36 .46 .56	.12 .22 .32 .41 .51 .61	P1 P1 P1 P1 P2 P2	.94 .94 .94 .94 .81	.94 .94 .94 .94 .81	PASS PASS PASS PASS PASS PASS PASS



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PAGE
ROONEY ASSOCIATES
                                                                      JOB NO.
RUN NO.
                                                                                    91/15
1
                                                                      AUTHOR
NAT-ROSS
                                                                      DATE
PORTAL DESIGN
EN5950: STEELWORK DESIGN PROGRAM V2.0 (C) ENCAD SYSTEMS LTD. 1991
Units: S.I. METRIC (Steel) Data File: PUR1
```

COMPLEX MEMBER CAPACITY CHECK

Member Details
Member String = 2,3
Length = 12.989 m
Section Group = 2
Group Title =
Table Ref. = UB Steel Grade = 43 Section No. = 32 Section Ref. = 457*191*74 UB Orientation = 0

Section Depths - Taper Definition (!) Section Class based on 100% dimensions Position (m) = .000 1.020 2.040 12.989 Pepth = 200 150 100 100

Intermediate Flange Restraints
'Top' Flange Spacing (m) = 8*1.4
'Bottom' Flange Spacing (m) =
Distance of Restraint from Tension Flange = 83 mm a = 311 mm

Loadcase = Auto = C1 = 1.4*B1+1.6*B3+1.4*B2+1.6*B4 *** SECTION OK 0.62 *** Mode (A/M) No.

Details

Complex Member	Capaci String	ities 2,3	L	des C1 45	7*191*74 U	B (1)		G	rd 43
LENGTH NO.	START (m)	END (m)	SHEAR CAPACITY	AXIAL/ FLEXURAL	OVERALL BUCKLING		RTION BILITY	LOAD/ CAPACITY	TEST RESULT
1 2 3 4 5 6 7 8	.000 1.400 2.800 5.600 7.000 8.400 9.800 11.200	1.400 2.800 4.200 5.600 7.000 8.400 9.800 11.200 12.989	.11 .09 .07 .05 .03	.48 .61 .48 .27 .28 .36 .39 .40	.48 .62 .49 .28 .29 .37 .40	P1 P1 P1 P2 P3 P4 P5	.58 .58 .58 .58 NA NA NA	.58 .58 .58 .29 .37 .40 .41	PASS PASS PASS PASS PASS PASS PASS PASS

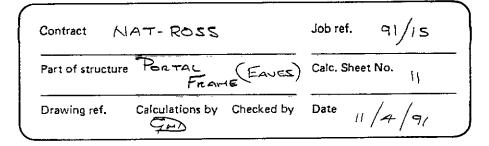
ROONEY ASSOCIATES 4 91/15 1 PAGE JOB NO. RUN NO. NAT-ROSS AUTHOR PORTAL DESIGN 11/4/91 DATE EN5950: STEELWORK DESIGN PROGRAM V2.0 Units: S.I. METRIC (Steel) (c) ENCAD SYSTEMS LTD. 1991 Data File : PUR1 Complex Member Loadcase C1 81.3 ອ ເນ 299.9 . ភ្នា -51.5 -91.9 455.4 -114.8 -120.3 Mx (KNm) -168.4 173 P1 P2 P3 P4 P5 P6 12.989 m -

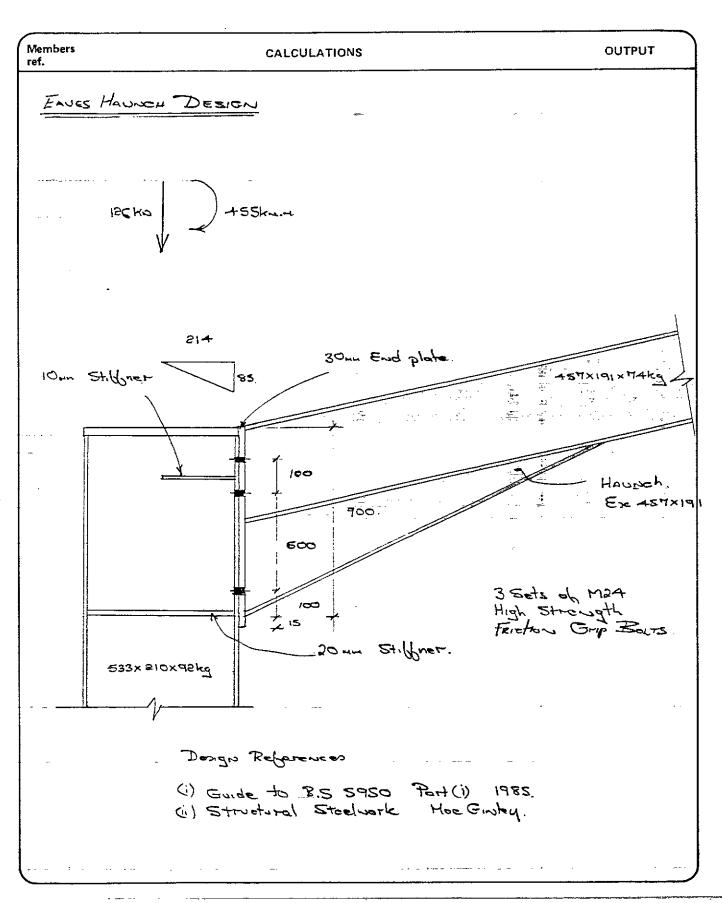
Consulting Engineers

Contract NAT-ROSS	Job ref. 91/15
Part of structure PERTAL FRAME	Calc. Sheet No.
Drawing ref. Calculations by Checked by	Date

Vembers	CALCULATIONS	OUTPUT
ef.		
	on the first Andrew	
Sumar	ry of Results From Analysis	
1 Rofter Si	ection = 457 x 191 x 74 UB	·
2. Stouchier	5 Section: 533xxeiox92 UB	
		?
	tauchen Section: 457x191X74 UP	
4. Restraint	Required to inver blonge of	
	tanchier of 7.54 above Grown	
1000 8	TEACHION OF THE STATE OF THE ST	
level.	-	
. <u>. </u>		
. • •		
	• •	
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		·
	· · · · · · · · · · · · · · · · · · ·	
	· -	
 -		
<u> </u>	•	

Consulting Engineers





Consulting Engineers

Members ref.

CALCULATIONS

OUTPUT

FORCES ON JOINT, 455 KN.M = HULL

125 KN = Yulk

(i) TENSION BOHS

TRY MEA GRADE 43 THEN Strength Fish Grip Bolh

Pr= 1861~

(ii) SHEAR BOLTS

SHEAR FORCE FU = 126km

SHEAR CADACITY 2 BOTTOM BOLTS

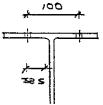
Pr = 204 ks.

(iii) WELD SIZE

0.75 Sf 3 0.5 x 14:5

5f > 9.6mm Use 10mm Filler WELD all around.

(IN) END PLATE THICKNESS



length Resisting BENDING * 2×82× Tan 60°.

huit = 100 mu . . .

Consulting Engineers

Contract /	NAT-ROSS	Job ref. 91/15.
Part of structur	TE PERTOL FRANKEEAU	Calc. Sheet No.
Drawing ref.	Calculations by Checked by	Date 15/4/91

Members ref.	CALCULATIONS	ОUТРИТ
(14) Contid.	B.M = 161×32 = 2.576kn.H.	

ADOPT 30- End spote

(V) TENSION IN STANCHION WEB.

235 < 275

(VI) BEARING + Buckling on web @ BTM OF HAUNCH.

(a).
$$b_1 = 14.5 + 20 + 15 = 59.5 + 1$$

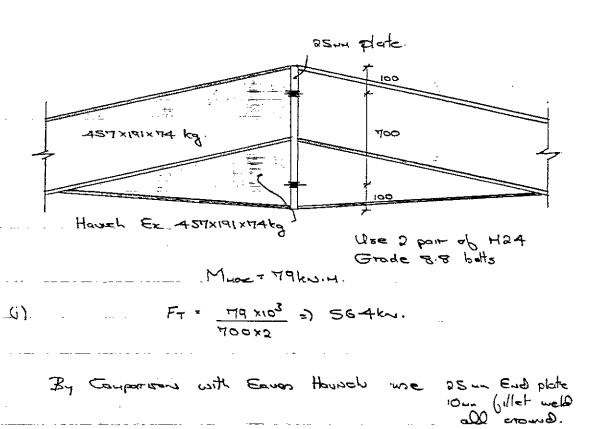
 $n_2 = 2 \times 2.5 (12.7 + 15.6) = 141.5 + 1$

Consulting Engineers

Contract NAT-ROSS	Job ref. 91/15
Part of structure Partial Frame (Eaves)	Calc. Sheet No.
Drawing ref. Calculations by Checked	1 by Date 15/4/91

Members ref.	CALCULATIONS .	ООТРИТ
	$\lambda = 2.5 \left(\frac{476}{10.2}\right) =$	ne
	72 · (59.5+533) × 10	.5 × 10 €
- 	Pw = 640 km	
	Even though Stillner us required provide 20-4	net Stillier
· · -	anjwary	•

(VII) RIDGE HAUNCH CONNECTION



Consulting Engineers

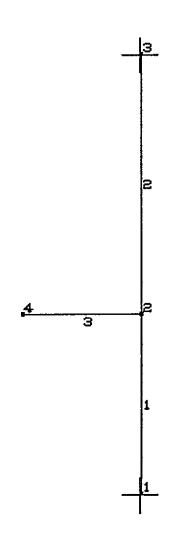
Contract /	ATT-ROSS	Job ref. 91/15
Part of structur	e GARLE POST Design	Calc. Sheet No.
Drawing ref.	Calculations by Checked	by Date 11/4/9/

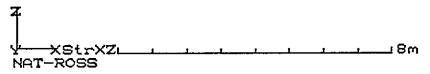
Members ref.	CALCULATIONS	ОUТРUТ
\ \ 1		
MINE	Pests	
LOAD	ndg. •.	
	Ultimate Wind lood height of wind Post.	
	/M	
	Pressure = 1.4 x 0 91x (0,4+03) x 5.8 = 5.76 km/	-
	<u>-</u>	
	Suction = 1.4 x 0.41x (0.5+0.2) x 5.8 = 4.03 km/	۹ .
·		
Kendi	mag Moment:	
	Mpress. = 5.76 x 13.52 = 131.2 kn.m.	
	8	
4		
:	M suction = 4.03 x 13.52 = 919 km. m	
!	₹.	
_ (1) fs	r pressure Looding, LE = 1500 Try 356	KIUIKSANE
	34.5 HP= 544 Km/m	
	- 34.5 HP: 544 Km/m	
(1) for	- Suction - Leading.	
	Lateral Rootrants From deals	
	@ Every thread of height	
	he= 4.5 H	
> > 135	20:90. At 4500 a) 114	,
14	વ <u>'</u> કુ લ દ્વ	
	Mb = 126 km/m.	
DEFARS	7:0	
!	W(service) = 5.76 => 4.11 km/	•
	- 14 · · · · · · · · · · · · · · · · · ·	
	A	
	A service = <u>SXA-11 x 13500</u> = 52mm, 354 x 205000 x 16100 x 10 ⁴	
	Allewable = 13500 = 54 mg 50	

ROONEY ASSOCIATES

PAGE 1
JOB NO. 91/15
RUN NO. 1
AUTHOR GMD
DATE 12/4/91

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991
Units: S.I. METRIC (Steel)





9.592593

materia.	1 Properties				<u> </u>
ENTRY NO.	TABLE REF./ DESCRIPTION	YOUNG'S MODULUS (kN/mm2)	POISSON'S RATIO	COEFFICIENT OF THERMAL EXP. (/ Deg C)	WEIGHT/UNIT VOLUME (kN/m3)
1 SI	Steel - Deg. C	205	.300	1.200E-05	7 7

161

2 91/15 ROONEY ASSOCIATES PAGE JOB NO. RUN NO. AUTHOR NAT-ROSS WIND POST DESIGN DATE EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: PUR2 Joint Co-ordinates x JOINT Z (m) (m)3.500 .000 3.500 5.500 3.500 13.500 .000 5.500 3 4 Section Properties
N.B. If a Shear Area value field is null (empty),
shear distortions are ignored in the analysis. SECTION Az SHEAR AREA Iy (cm4) NO. REFERENCE AREA Ax zMAX (cm2) (cm2) (mm) DESCRIPTION 1 UB/46 356*171*57 UB 7.220E+01 1.610E+04 1.793E+02 2.649E+01 3.790E+01 2.490E+03 1.016E+02 203*89*29.78 RSC Member/Element Incidences MEMBER/ NODE NODE NODE NODE MEMBER ELEMENT NO. LENGTH (m) 1 2 3 1 2 5.500 8.000 2 Member/Element Details MEMBER/ Y AXIS SECTION/ MATERIAL ELEMENT FLEXURE THICKNESS GROUP TYPE NO. GROUP NO.

18°

25~

1

Ż 3 FF

FF FF 1

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ROONEY ASSOCIATES

PAGE 3

JOB NO. 91/15

RUN NO. 1

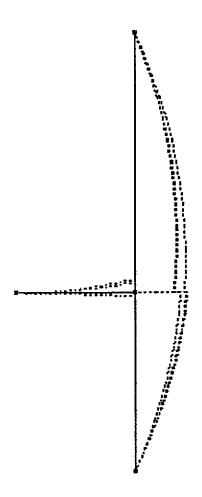
RUN NO. 1

AUTHOR GMD

AUTHOR GMD

12/4/91

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: PUR2



Z E1: C1,C2,C3

My XZL , ____ 200kNm

Y XStrXZL , ____ 8m

NAT-ROSS

1.2E-002 9.592593

Envelope Case E1 : C1,C2,C3

MBR	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
1	1	-2.9742 C3	31.4794 C3	.0000
1	1	11.1253 C2	34.5637 C2	C3 .0000
1	2	-2.9742 C3	5.2994	101.1416 C3
1	2	11.1253 C2	C3 8.3837 C2	118.1052 C2

.

4 91/15 1 GMD 12/4/ PAGE JOB NO. RUN NO. ROONEY ASSOCIATES NAT-ROSS WIND POST DESIGN AUTHOR 12/4/91 DATE EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: PUR2

Envelope Case E1 : C1,C2,C3 Member End Forces

11011100		<u> </u>		
MBR	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
2	2	-7.6487 C2	5.2994 C3	85.2507 C2
2	2	2.0448 C3	8.3837 C2	109.9249 C3
2	3	-7.6487 C2	-32.7806 C3	C3 .0000
2	3	2.0448 C3	-29.6963 C2	C2 .0000
3	2	.0000 C3	-5.0190 C3	-32.8545 C2
3	2		18.7740 C2	8.7832 C3
3	4	C3 C3		C2 .0000
3	4	ci 0000	C3 0000	C1 .0000

Grd 43

PAGE ROONEY ASSOCIATES JOB NO. RUN NO. AUTHOR DATE 91/15 1 GMD NAT-ROSS 12/4/91 WIND POST DESIGN

(c) ENCAD SYSTEMS LTD. 1991 Data File: PUR2 EN5950: STEELWORK DESIGN PROGRAM V2.0 Units: S.I. METRIC (Steel)

COMPLEX MEMBER CAPACITY CHECK

Member Details
Member String = 1,2
Length = 13.500 m
Section Group = 1
Group Title =
Table Ref. = UB

* Depth

Steel Grade = 43
Section No. = 46
Section Ref. = 356*171*57 UB

Section Depths - Taper Definition
Position (m) = .000 13.500
Pupple = 100 100

Intermediate Flange Restraints
'Top' Flange Spacing (m) = 5.5,1*5.5
'Bottom' Flange Spacing (m) = 5.5
Distance of Restraint from Tension Flange = 83 mm a = 262 mm

Loadcase *** SECTION OK 0.89 *** Mode (A/M) = Auto No.

= C3 = 1.4*B1+1.0*B2+1.4*B5 Details

Ldcs C3 356*171*57 UB Complex Capacities Member String 1,2

LENGTH	START	END	SHEAR	AXIAL/	OVERALL		TION	LOAD/	TEST
NO.	(m)	(m)	CAPACITY	FLEXURAL	BUCKLING		ILITY	CAPACITY	RESULT
1	.000	5.500	.07	.37	.66	P1	NA	.66	PASS
2	5.500	11.000	.04	.41	.89	P2	NA	.89	PASS
3	11.000	13.500	.07	.24	.26	P3	NA	.26	PASS

NAT-ROSS WIND POST DESIGEN5950: STEELWO Units: S.I. MET	N RK DESI	eer)					PAGE JOB NO. RUN NO. AUTHOR DATE NCAD SYS Data P	2 91/1 1 GMD 12/4 STEMS LT	/91 TD. 1991
Complex Men © 0 E X X X I X X	-67.6	188 188	1 188.6 5	-112.8 -12.8	-107.6	-93.7	-71.8	-39.9	8
X			×				×		× / / / / / / / / / / / / / / / / / / /
1	P1		 -	13.5	n <u>P2</u>			РЗ	

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3
91/15
                                                                                           PAGE
ROONEY ASSOCIATES
                                                                                           JOB NO.
RUN NO.
                                                                                                             1
                                                                                           AUTHOR
NAT-ROSS
                                                                                           DATE
WIND POST DESIGN
                                                                                   (c) ENCAD SYSTEMS LTD. 1991
Data File : PUR2
EN5950: STEELWORK DESIGN PROGRAM V2.0 Units: S.I. METRIC (Steel)
COMPLEX MEMBER CAPACITY CHECK
Member Details
Member String = 3
Length = 3.500 m
Section Group = 2
Group Title =
Table Ref. = RSC
                                                            Steel Grade = 43
Section No. = 9
Section Ref. = 203*89*29.78 RSC
                                                            Orientation =
Section Depths - Taper Definition Position (m) = .000 3.500 $\frac{1}{2}$ Depth = 100 100
Intermediate Flange Restraints
'Top' Flange Spacing (m) =
'Bottom' Flange Spacing (m) =
Distance of Restraint from Tension Flange =
                                                                                                     mm
Loadcase
                                                                 *** SECTION OK 0.69 ***
Mode (A/M)
                       = Auto
                       = C2
= 1.4*B1+1.2*B2+1.2*B3+1.2*B4
No.
Details
Complex Capacities
Member String 3
                                             Ldcs C2 203*89*29.78 RSC
                                                                                                                  Grd 43
LENGTH START END SHEAR AXIAL/ OVERALL PORTION LOAD/ TEST NO. (m) (m) CAPACITY FLEXURAL BUCKLING STABILITY CAPACITY RESULT
```

.42

3.500

.000

.07

.69

P1

After the second of the second of the second of

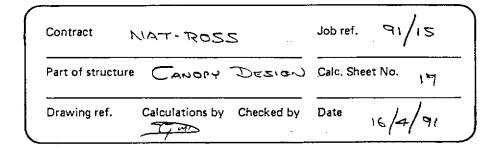
NA

.69

PASS

PAGE JOB NO. RUN NO. AUTHOR DATE 4 91/15 1 ROONEY ASSOCIATES GMD 12/4/91 NAT-ROSS WIND POST DESIGN (c) ENCAD SYSTEMS LTD. 1991 Data File : PUR2 EN5950: STEELWORK DESIGN PROGRAM V2.0 Units: S.I. METRIC (Steel) Complex Member Loadcase C2 5.26 21.03 2.96 32.85 33 88 16.10 11.83 1.31 Mx (KNm) 26.61 8.21 Pi 3.5 m

Consulting Engineers



ref.	JTPUT
CANORY DESIGN WIND POSTS TO THE STATE OF TH	

FROM COMPUTER ANALYSIS MARX = 32kw.M.

TRY 203×89 CHANNEL.

Contract	VAT- ROSS		Job ref.	91/15.
Part of structur	Des.	.ev	Caic. Shee	et No.
Drawing ref.	Calculations by	Checked by	Date	17/4/91

Members ref.	CALCULATIONS	ОИТРИТ
WELD D	SEGNITIUS 25GNITIUS 203XTG R.E. C	FRONT = 32×103 2×250
		159>64.
	MMax = 32ku.m. Vhox = 18km Honout is taken by the Florides Ff = 32x103 = 168km (203.2-12.9)	
	Lut = 2×88.9 7 177 8 mm.	: :
Assume	Fueld = 168 x103 = 168 u/	
SHEAR.	meld sher = 18×103.	3) 9.14 W
	2×175-8×0.7×8	50 eh

Consulting Engineers

Part of structure BRACING DESIGN Calc. Sheet No.

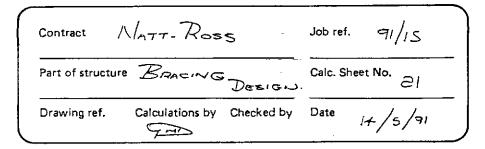
Drawing ref. Calculations by Checked by Date

[5/4/9]

Members ref.	CALCULATIONS	OUTPUT
- · · · · · · · · · · · · · · · · · · ·	BRACING DESIGN.	
	Reactions @ Ends of Wind Posts	
	= 1.4 × 0.71 (0.77+0.3) × 5.48 × 13.5 =>	37 ku (Worst)
	+ Wind Drag Elbert on Root	
	= 0.04×1.4×0.41×5.8 [34-4(5.8)]	39-5km
	19.71 km 39.5 km 39.5 km 39.5 km 19.74 km 39.5 km 39.5 km 79 km	≠ ·· 6·0 · · · · · · · · · · · · · · · · · ·
	98.71k~	
	5·8·4	
	(i) The Designo The Force = 109km.	·
	Jry 50 × 80 × 8 Angle.	
	Pe = Ae Py	
	TE = 726 × 275 =) 199 km.	
	(1) Struct Dougn. Struct Force = 89.5kw. LE = 5.1u.	

Contract ^	VAT - Ross		Job r ef.	91/15
Part of structur	e Bracing	Desen	Calc. Shee	t No. 20
Drawing ref.	Calculations by	Checked by	Date	=/4/9,

Members ref.	CALCULATIONS		оитрит
	114.3 × 3.6 C.H.S.		
	$\frac{D}{E} = \frac{114}{36} = 316$	50 Phetic	- : : :-:
		-22. de	 · ·
	72 = 12.8×102 × 13"	न	
	= 171 k~	So oh	· · · · · · · · · · · · · · · · · · ·
(III) EAVES	. Tie net as a Strut	·	
	FE = 79k2.		
ļ	LE = 0.7×6000=	4200	
-	ADOPT ISOXIS2 × 23	ು ಲ	
(IV) 510E	BRACING.	=	
	133k		
		182X182X23 VC.	· · · · · · · · · · · · · · · · · · ·
Try 189.	TX 5 C.H. 5		
	189.9: 24.8 2) Ploste. 1=	F= 180	المستعدد المستعدد



Members ref.	CALCULATIONS	ОИТРИТ
	TRANSFER OF WIND LOAD FROM NEW BUILDING. INTO THAT OF THE OLD BUILDING.	
	Roof Bracing	
	30m	New Building
	Existing Bulding	SX23 UC Membee.
	FORCE = 98.7km.	
i	109km 3.0H	
	ADOPT A BOXBOXB Angle.	
······································		

Contract r	VAT-ROSS	Job ref. 91/15
Part of structur	e GARUE ERACING.	Calc. Sheet No.
Drawing ref.	Calculations by Checked	by Date 15/4/91

Members ref.	CALCULATIONS	ОИТРИТ
	Bracing.	
- ·		
	490	8.2k~
- · · · · · · · · · · · · · · · · · · ·		8,54
	3343	16-4-kn.
	\$ 5.8n,	<u> </u>
	WIND FORCE ON GARLE = 0.71(0.7+0.3)×3×	5:5 XI 4 2,
	= BEKN, AND 16.4 Compression However FE=18.5km, A	
	LE = 0.85×7.65 = 65.	
<i>28.</i> 2	7x 3:2 CiHS. 72 = 35kn.	· · · · · · · · · · · · · · · · · · ·
are store .		
· · · · · · · · · · · · · · · · · · ·		
;		su va vast

Consulting Engineers

Contract N	VAT-ROSS	•	Job ref.	91/15
Part of structure	FOUNDATE SIZIN		Calc. She	et No. 23
Drawing ref.	Calculations by	Checked by	Date /	6/4/91

Members ref.	CALCULATIONS	OUTPUT

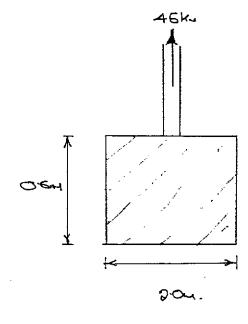
CATER FOR UPLIFT

MARE UPLIFT FORCE = 46KW (FROM COMPUTER AMALYSIS.)

WEIGHT OF FOUNDATION = 46km

Assume 2:0m × 20m sq pads.

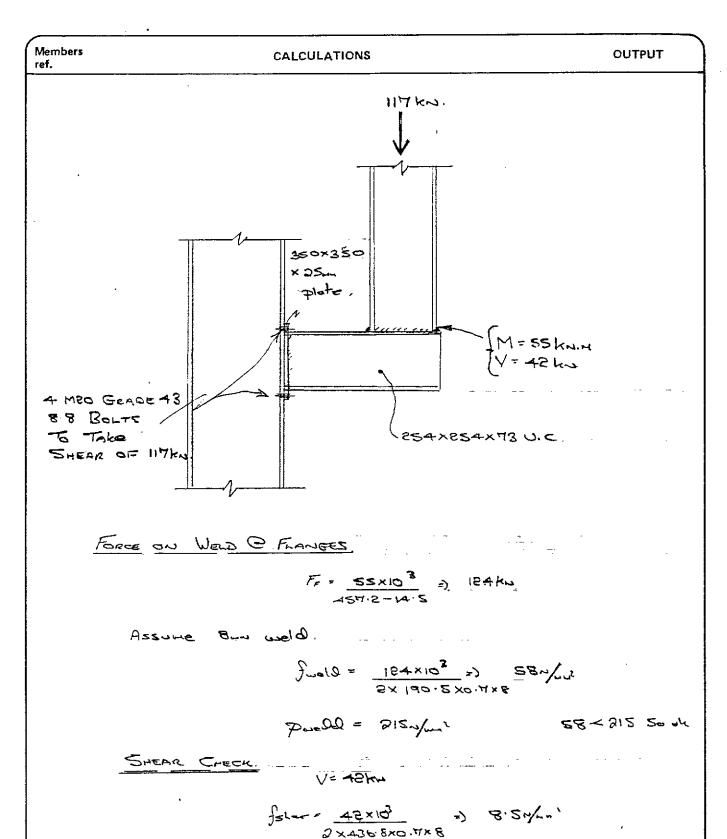
Provide 204 sq bose by 0.64 deep.



Consulting Engineers

Contract N	AT-ROSS	Job ref. 91/15
Part of structure	STUBB BEAM.	Calc. Sheet No.
rawing ref.	Calculations by Checked by	Date 15/4/9/

8.5<215 5 ok.



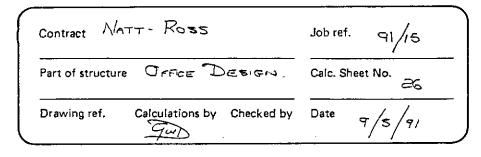
Consulting Engineers

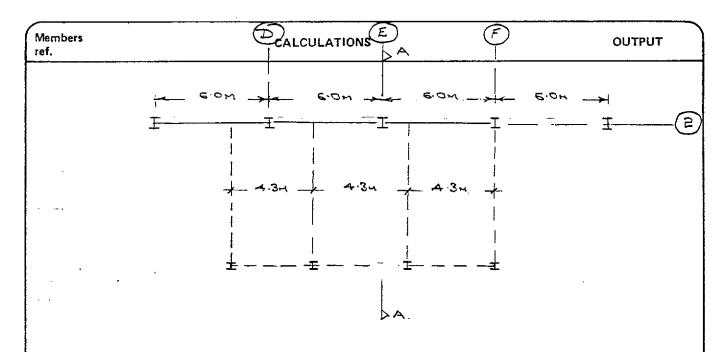
Part of structure The Fore Calc. Sheet No. 25

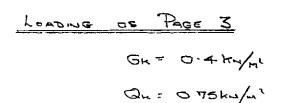
Drawing ref. Calculations by Checked by Date 17/4/91

Members ref.	CALCULATIONS	ОИТРИТ
THE D	ESIGN.	
	MAXIMUM TIE FORCE = 167km.	
	Provide_ 50.3 x 4:0 C.H.S. C.	GRACITY = 194km.
	8 mu wold.	50·3×4·0 C#S
	2×22_ \$ Bout	
	WORD Stress = 164 X103 3) 18	,
	- · · · · · · · · · · · · · · · · · · ·	188~818 500
,		
· · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
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Consulting Engineers



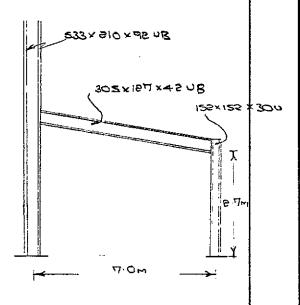




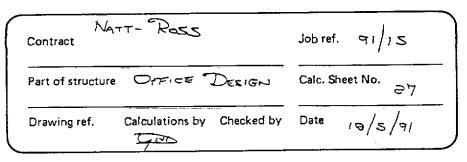
Gh on Robber = 0.4 x 4.3 = 1.72 km/m.

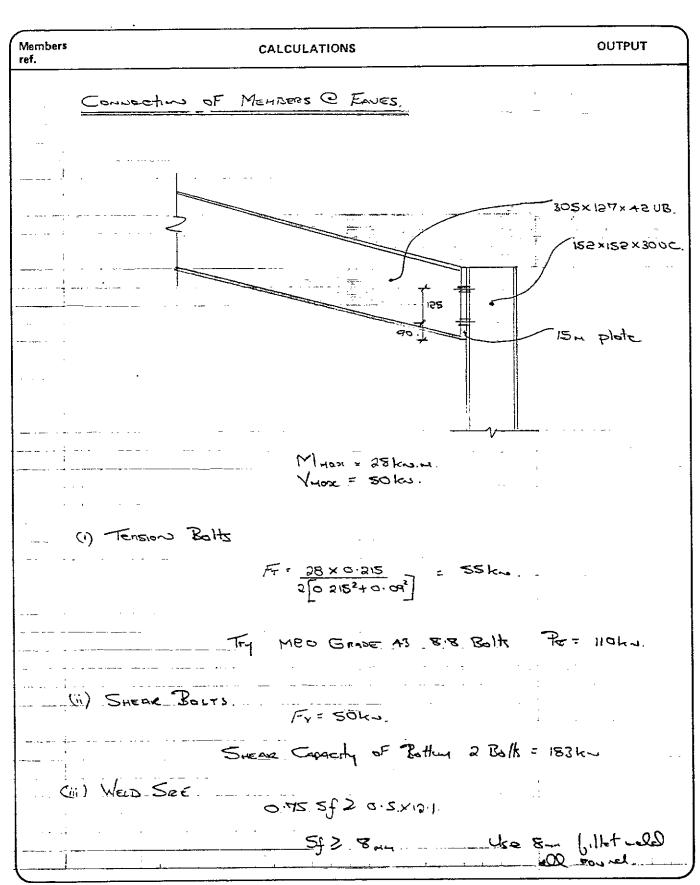
Qh on Robber = 0.75 x 4.3 = 3.22 km/m.

When on Robber = 0.41 x 4.3 = 3.05 km/m.



Consulting Engineers





Consulting Engineers

Contract NATT - ROSS. Job ref. 91/15

Part of structure OFFICE DES. Calc. Sheet No. 20

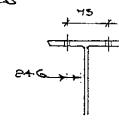
Drawing ref. Calculations by Checked by Date 10/5/91

(Mem	bers

CALCULATIONS

OUTPUT

(IV) END PLATE THICKNESS



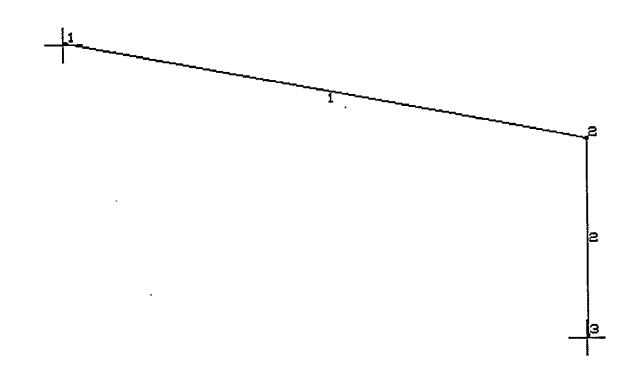
length Rosseting Bending = 2x24.6x Tan 60.

* 85mm

Bending Homent = 35x24.6 = 0.676.km.m.

ADOPT 1544 PRATE

ROONEY ASSOCIATES	PAGE JOB NO.	1 91/15
NAT-ROSS OFFICE FRAME	RUN NO. AUTHOR DATE	GMD 10/5/91
EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c)	ENCAD SYSTE	MS LTD. 1991 e: NATOF



Z Y XStrXZLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	31
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Materia.	l Properties	=	·		
ENTRY NO.	TABLE REF./ DESCRIPTION	YOUNG'S MODULUS (kN/mm2)	POISSON'S RATIO	COEFFICIENT OF THERMAL EXP. (/ Deg C)	WEIGHT/UNIT VOLUME (kN/m3)
1 SI	Steel - Deg. C	205	.300	1.200E-05	77

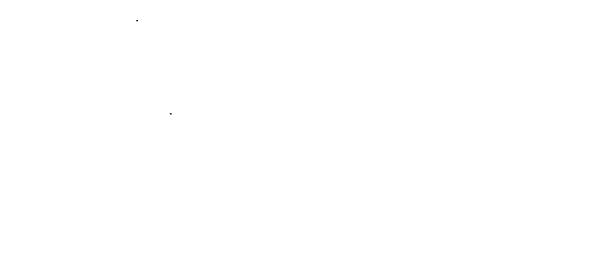
ROONEY NAT-ROS OFFICE	ASSOCIATES					PAGE JOB NO. RUN NO. AUTHOR DATE	2 91/15 1 GMD 10/5/91
 EN202:		E/FINITE :	ELEMEN.	r analys	GIS-V4.0	(c) ENCAD SY	
Joint C	o-ordinate	e <u>s</u>					
JOINT	X (m)	Z (m)			-		•
1 2 3	,000 7,000 7,000	4.200 2.800 .000					
N.B. II		Tea value tions are	ignor	ed in th	ne analysis.		Az SHEAR
NO.	REFE	ERENCE	AR. (EA Ax cm2)	Iy (cm4)	zMAX (mm)	AREA (cm2)
	DESCE	RIPTION		:			
1	UB/55 305*127*42	UB	5.3	20E+01	8.140E+03	1.533E+02	2.252E+01
			3 0	20E+01	1.740E+03	7 875E±01	8.816E+00
2	UC/30 152*152*30) UC				7.0752.01	3.3.02.02.
	152*152*30) UC					
Member/	/Element Ir	ncidences				-	
Member/	/Element Ir	ncidences	NODE 3	NODE 4	MEMBER LENGTH		
Member/ MEMBH ELEMENT	/Element Ir Property No. 1	ncidences NODE 2	NODE 3	NODE 4	MEMBER LENGTH (m)	-	·

ROONEY ASSOCIATES

PAGE 3
JOB NO. 91/15
RUN NO. 1
AUTHOR GMD
DATE 10/5/91

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991
Units: S.I. METRIC (Steel)

Data File: NATOF



Z E1: C1,C2,C3

DefXZL____30mm

XStrXZL_____4m

NAT-ROSS

32.67199 20.87318

Envelope	Case	E1	:	C1,	,C2,	C3

POINE	ובע	pracemen	163				
JOINT	Х	LINEAR (mm)	Z	LINEAR (mm)	Y	ROTATION (rad)	
1		.00000 C1		.00000 C1		00258 C3	
1		.00000 C1		_00000 C1		.00987 C2	
2		11369 C2		19202 C2		00771 C2	
2		.02970 C3		.05017 C3		00201 C3	

ROONEY ASSOCIATES

PAGE 4

JOB NO. 91/15

RUN NO. 1

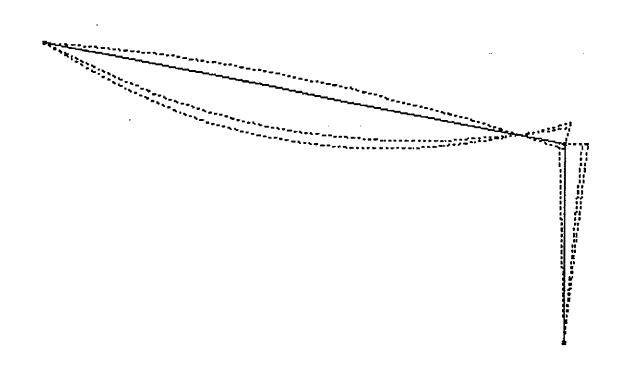
NAT-ROSS AUTHOR GMD
OFFICE FRAME

DATE 10/5/91

EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: NATOF

Envelope Case E1 : C1,C2,C3
Joint Displacements

OOMIC	DISPIACEMENT	<u>.6</u>	
JOINT	X LINEAR (mm)	Z LINEAR (mm)	Y ROTATION (rad)
3	.00000 C1	.00000	00093
3	.00000 C1	.00000 C1	C3 .00357 C2
3		100000 C1	.00 C2



Z E1 : C1,C2,C3

My XZLLLLL 70 kNm

XStrXZLLLLL 4m

NAT-ROSS

1.0E-002 20.87318

ROONEY ASSOCIATES PAGE 5 JOB NO. 91/15 RUN NO. 1 AUTHOR GMD DATE 10/5/91 EN202: PLANE FRAME/FINITE ELEMENT ANALYSIS-V4.0 (c) ENCAD SYSTEMS LTD. 1991 Units: S.I. METRIC (Steel) Data File: NATOF

Envelope Case E1 : C1,C2,C3.

Memb	er End	Forces		:
MBR	JOINT	AXIAL Nx (kN)	SHEAR Sz (kN)	MOMENT My (kNm)
1	1	5105 C3	-11.1277 C3	.0000
1	1	1.9540	42.5921 C2	.0000
1	2	C2 -5.3825 C3	-50.6479 C2	-28.7535 C2
1	2	20.6020 C2	13.2323 C3	7.5122 C3
2	2	-14.0310 C3	-2.6829 C3	-28.7535 C2
2	2	53.7047 C2	10.2691 C2	7.5122 c3
2	3	-14.0310 C3	-2.6829 C3	.0000 C3
2	3	53.7047 C2	10.2691 C2	.0000 C1

Envelope Case E1 : C1,C2,C3

Support	Reactions	· · · · · <u>· · · · · · </u>	
JOINT	X FORCE . (kN)	Z FORCE (kN)	Y MOMENT (kNm)
1	-2.6829 C3	-10.8115 C3	.0000
1	10.2691 C2	41.3818 C2	C1 .0000
3	-10.2691 C2	-14.0310 C3	.0000 C1
3	2.6829 C3	53.7047 C2	.0000 C1

```
PAGE
ROONEY ASSOCIATES
                                                                                                                 91/15
                                                                                              JOB NO.
RUN NO.
                                                                                               AUTHOR
NAT-ROSS
                                                                                              DATE
OFFICE FRAME
EN5950: STEELWORK DESIGN PROGRAM V2.0
Units: S.I. METRIC (Steel)
                                                                                    (c) ENCAD SYSTEMS LTD. 1991
Data File: NATOF
COMPLEX MEMBER CAPACITY CHECK
Member Details
Member String = 1
Length = 7.139 m
Section Group = 1
Group Title =
Table Ref. = UB
                                                              Steel Grade = 43
Section No. = 55
Section Ref. = 305*127*42 UB
Orientation = 0
Section Depths - Taper Definition
Position (m) = .000 7.139
Popth = 100 100
 Depth
Intermediate Flange Restraints
'Top' Flange Spacing (m) = 4*1.4
'Bottom' Flange Spacing (m) =
Distance of Restraint from Tension Flange = 83 mm  a = 236 mm
Loadcase
Mode (A/M)
                                                                   *** SECTION OK 0.46 ***
                       = Auto
= C2
= 1.2*B1+1.2*B2+1.2*B3
 No.
Details
              Capacities
                                                Idcs C2 305*127*42 UB
                                                                                                                       Grđ 43
```

Memper Complex	Capaci String		ט	ucs cz 30					
LENGTH NO.	START (m)	END (m)	SHEAR CAPACITY	AXIAL/ FLEXURAL	OVERALL BUCKLING		TION ILITY	LOAD/ CAPACITY	TEST RESULT
1 2 3 4 5	.000 1.400 2.800 4.200 5.600	1.400 2.800 4.200 5.600 7.139	.11 .06 .03 .08 .13	.28 .41 .42 .39 .21	.28 .45 .46 .42 .24	P1 P2 P3 P4 P5	NA NA NA NA	.28 .45 .46 .42 .24	PASS PASS PASS PASS PASS

NAT- OFF	ROSS ICE FRA	EELWORK	DESIGN PR				JC RU AU DJ	AGE DB NO. DIN NO. DITHOR ATE CAD SYS Data F	2 91/15 1 GMD 10/5/91 TEMS LTD.	1991
Mx (kNm)		•	-47.58 -61.26	-68.37	€ C2 88 89	-62.62	-49.76	138.85	60	X 28, 75
	X									
İ	<u> </u>	P1	, bs	_	P3 7.138 :	n —	P4		P5	

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PAGE
ROONEY ASSOCIATES
                                                                                                               91/15
                                                                                             JOB NO.
                                                                                                              1
GMD
                                                                                            RUN NO.
                                                                                             AUTHOR
NAT-ROSS
                                                                                                               10/5/91
                                                                                            DATE
OFFICE FRAME
                                                                                   (c) ENCAD SYSTEMS LTD. 1991
Data File: NATOF
EN5950: STEELWORK DESIGN PROGRAM V2.0 Units: S.I. METRIC (Steel)
COMPLEX MEMBER CAPACITY CHECK
Member Details
Member String = 2
Length = 2.800 m
Section Group = 2
Group Title =
Table Ref. = UC
                                                             Steel Grade = 43
Section No. = 30
Section Ref. = 152*152*30 UC
Orientation = 0
Section Depths - Taper Definition Position (m) = .000 2.800 

* Depth = 100 100
Intermediate Flange Restraints
'Top' Flange Spacing (m) =
'Bottom' Flange Spacing (m) =
Distance of Restraint from Tension Flange =
                                                                                                       mm
Loadcase
                                                                  *** SECTION OK 0.47 ***
Mode (A/M)
                      = Auto
                       = C2
= 1.2*B1+1.2*B2+1.2*B3
No.
Details
                                    Ldcs C2 152*152*30 UC
                                                                                                                     Grd 43
Complex Capacities
Member String 2
 LENGTH START END SHEAR AXIAL/ OVERALL PORTION LOAD/ TEST NO. (m) (m) CAPACITY FLEXURAL BUCKLING STABILITY CAPACITY RESULT
```

. 47

.06

.000 2.800

.36

P1

NA

. 47

PASS

Consulting Engineers

Contract NATT - Ross	Job ref. 91/15
Part of structure Office Design	Calc. Sheet No. 30
Drawing ref. Calculations by Checked b	Date 9/8/9/

Viembers ref.	CALCULATIONS	ОИТРИТ
	1 / / Do	
Design	U OF MEMBER to TAKE LEAN- to RAFTER.	
	4PKN (From Arabysis)	
ļ —· ·	€w.	
	∂Bk~·	
	Muse = 56 kg.m	
	λ = 0.88×0000 = 188	
	and the same and t	
	7 - 188 -> 7	
	x 26.8	
		
	λLT = n.υ.ν.λ.	-
	- 1 X 0 872 X 0.73 x 188	
. 1	च्या अ	
	7b= 96 N/m	
	Mb= 610×103×96×10-6.	
	112 - 010×10 × 14 × 10	
	= 58.5 km.m.	• :
	5. Adopt 305×127 XA2 UB	-
-	Se Adapt 303x1811 A.TA 30	2.
	-	
Re	DOF SHEETING RAILS @ 1400 %.	
	—	 -
	SINCE SPAN IS REDUCED	
	to 4.3m Use Some	
	SHEETING PAILS AS THE ROOF	······································

Consulting Engineers

Contract /	LATT - RO	55	Job ref.	91/15	
Part of structure	OFFICE	DESIGN	Calc. St	heet No. 31	
Drawing ref.	Calculations by	Checked by	Date	10/5/01	

Members ref.	CALCULATIONS	ОИТРИТ
Design of	5 Channel Sheeting Rails	
Try 10	EXSL CHANNELL SECTION	<u> </u>
	Sheeting Fully Rostrans SEC	
FISSOME	Tanagara Kasilara	
	He= 5=Py.) 48.8x31	75x10-2:13.48km.m.
		· · - ····· - ·
		,
	U.D.L ON CHAMBEL = O.TIXI'SX	1:4 Say 15 = c/c.
	149 KW/	4.
	· · Hunoze = 3.44 km.m	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		• •
Pallee	then CHECIT.	-: -:
	The second section is a second	
	Aallowle = 5×106×43	<u>330^{4.}</u> 20×808×ю ⁴
	= 12·4 mm,	- ·
	A act 2 = 4330 -7	12 mg So ok
	360	
		· · · · · · · · · · · · · · · · · · ·
	·	

Contract N	TT- POSS	Job ref	· 91/15
Part of structure	OFFICE DESIG	Calc. Si	heet No.
Drawing ref.	Calculations by Checked	by Date	13/5/91

Members ref.	CALCULATIONS	ОUТРИТ
7	OF MEHRERS @ ROOF LEVEL OF OFFE	で ₽ <
#50CN	OF_TIENBERS - NOOF REGION OF CITY	
	e 7	٤.
		-
······································		. –
		-
	WIND LOAD FOR = O.MIXI.A	x / 2 < x 2 , a c)
	BRACING DESIGN	5 2
	= 6.00ku.	
		•
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7	
	*	
	58. 11. 4.3	3+
<u>. </u>		4
	7	
4		
1	6.0km	
1	6.0km	
1	6.0km	
	6.0km	
	6.0km	
	6.0km	

