

DEVELOPMENT CONTROL TECHNICAL INFORMATION

THE ROYAL
BOROUGH OF



M. L
KENSINGTON
AND CHELSEA

ADDRESS ROYAL MARSDEN HOSPITAL
201-211 FULHAM ROAD

POLLING DISTRICT STC

PP040189
PP040189

PP040189

- HB Buildings of Architectural Interest
- AMI Areas of Metropolitan Importance
- MDO Major Sites with Development Opportunities
- MOL Metropolitan Open Land
- SBA Small Business Area
- PSC Principal Shopping Centre (Core or Non-core)
- LSC Local Shopping Centre
- AI Sites of Archeological Importance
- SV Designated View of St. Paul's from Richmond
- SNCI Sites of Nature Conservation Importance
- REG 7 Restricted size and use of Estate Agent Boards
- ART IV Restrictions of Permitted Development Rights

Conservation Area	HB	CPO	TPO	AMI	MDO	MOL	SBA	Unsuitable for Diplomatic Use	PSC		LSC	AI	SV	SNCI	REG 7	ART IV	
									C	N							

	Within the line of Safeguarding of the Proposed Chelsea/Hackney underground line
	Within the line of Safeguarding of the Proposed Eastwest/Crossrail underground line

Density	
Site Area	
Habitable Rooms Proposed	
Proposed Density	

Plot Ratio	
Site Area	
Zoned Ratio	
Floor Area Proposed	
Proposed Plot Ratio	

Notes:

Daylighting	Complies	
	Infringes	

Car Parking	Spaces Required	
	Spaces Proposed	

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP140480

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No	Brief Description of Proposal	1	of	56	Adverts & History No
	OUTLINE - ERECT AN OUT PATIENTS DEPARTMENT AT THE ROYAL CANCER HOSPITAL.				CA 2109 CA/04/0109

Received	26/05/1952	Decision & Date	
Completed		Conditional	16/07/1952
Revised			

TP No	Brief Description of Proposal	2	of	56
	APPROVAL TO DETAIL DRAWINGS.			

Received	14/08/1952	Decision & Date	
Completed		Approval of Details	27/09/1952L
Revised			

TP No	Brief Description of Proposal	3	of	56
	ERECT A NEW DEMONSTRATION ROOM ON ROOF OF THE EAST WING WITH NEW EXTERNAL BRICK WORK TO MATCH EXISTING AS STATED IN LETTER 27.8.57.			

Received	15/07/1957	Decision & Date	
Completed		Unconditional	13/09/1957
Revised			

TP No	Brief Description of Proposal	4	of	56
	CIRCULAR 100 OBSERVATIONS - PROPOSAL TO ERECT A ROOF EXTENSION TO THE EAST WING OF HOSPITAL AS SUB DRAWINGS. TO OBJECT AS EXTENSION DOES NOT COMPLY WITH STANDARD IN RESPECT OF DAYLIGHTING TO BUILDINGS AND WOULD ADVERSELY AFFECT SMALL HOUSES ON STEWARTS GROVE.			

Received	02/01/1967	Decision & Date	
Completed			17/02/1967L
Revised			

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP610430

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No Brief Description of Proposal 5 of 56

CIRCULAR 100 OBSERVATIONS - NO OBJECTION TO PROPOSED ROOF
EXTENSION TO EAST WING (WOLRIDGE WARD) SUBJECT TO
MATCHING MATERIALS BEING USED.Received 09/06/1967 Decision & Date
Completd 28/07/1967L
Revised

TP No Brief Description of Proposal 6 of 56

ENLARGE EXISTING LIFT MOTOR ROOM AT 5TH FLOOR LEVEL AT
GRAHARD HOUSE.Received 17/10/1967 Decision & Date
Completd Conditional 21/11/1967
Revised

TP No Brief Description of Proposal 7 of 56

THE LAYING OF AN OXYGEN PIPE LINE BETWEEN THE BROMPTON
HOSPITAL AND THE ROYAL MARSDEN HOSPITAL BENEATH
DOVEHOUSE STREET.Received 01/08/1969 Decision & Date
Completd Conditional 21/10/1969
Revised 04/08/1969

TP No Brief Description of Proposal 8 of 56

THE USE OF THE ORATORY SCHOOL FOR HOSPITAL PURPOSES.

Adverts &
History No

CA 2109

Received 12/02/1970 Decision & Date
Completd Conditional 31/07/1970
Revised

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Sitename : Royal Marsden Hospital

Comment :

TP Arch/History : 4797 H 10859

See Also :

PP040480

Xref : Oratory School Buildings, Oratory Lane

Notes :

TP No Brief Description of Proposal 9 of 56

CIRCULAR 80/71 OBS
PROPOSAL TO ENLARGE EXISTING
2 STOREY BUILDING WITHIN HOSPITAL SITE FORM EARLY
BREAST CANCER CLINIC.
NO OBJECTIONS

Received 01/02/1973 Decision & Date
Completd 26/04/1973L
Revised

TP No Brief Description of Proposal 10 of 56

USE SITES OF 1-10 INC AND STEWARTS HOUSE, STEWARTS
GROVE TOGETHER WITH 191-199 (ODD) FULHAM ROAD FOR HOSPITAL
PURPOSES.

Received 08/08/1973 Decision & Date
Completd Refused 11/04/1974
Revised

TP No Brief Description of Proposal 11 of 56

ERECT A BRIDGE OVER ORATORY LANE TO FORM PEDESTRIAN WAY
BETWEEN FORMER ORATORY SCHOOL AND ROYAL MARSDEN HOSPITAL.

Received 08/02/1974 Decision & Date
Completd Conditional 18/09/1974
Revised

TP No Brief Description of Proposal 12 of 56

ERECT EXTENSION OF EXISTING RADIOTHERAPY DEPARTMENT BELOW
GROUND FLOOR LEVEL AND AT EXTENSION TO THE PHARMACY AT
GROUND FLOOR LEVEL.

Received 18/09/1974 Decision & Date
Completd Conditional 20/12/1974
Revised

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site Name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PPG19489

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No Brief Description of Proposal 13 of 56

ERECT A BRIDGE LINK BETWEEN GRANARD HOUSE AND WALLACE
WING WITHIN SITE OF HOSPITAL.Received 15/10/1974 Decision & Date
Completd
Revised

TP No TP/76/0376 Brief Description of Proposal 14 of 56

ERECT A FLUE PIPE FOR GASES LINKED WITH RE-POSITIONED
FUME CUPBOARD WITHIN HOSPITAL COMPLEX OFF STEWARTS GROVE.Received 25/03/1976 Decision & Date
Completd Conditional 24/05/1976
Revised

TP No TP/77/1443 Brief Description of Proposal 15 of 56

ERECT SINGLE STOREY TOILET BLOCK EXTENSION AT ORATORY
SCHOOL WING.Received 28/11/1977 Decision & Date
Completd Conditional 26/01/1978
Revised

TP No TP/83/1482 Brief Description of Proposal 16 of 56

T & C P A - 1971 CIRCULAR 7/77
NO OBJECTION TO ERECTION OF A
BUILDING TO HOUSE A WHOLE BODY SCANNER IN AN OUT-PATIENTS
DEPT. COMPRISING AN EXTENSION AT 1ST FLOOR AND PHARMACY
EXTENSION AT GROUND FLOOR LEVEL OVER COURTYARD AT REAR.Received 07/09/1983 Decision & Date
Completd 16/09/1983 11/11/1983L
Revised

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PPC19489

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No TP/86/2244 Brief Description of Proposal 17 of 56
CREATION OF A LINK CORRIDOR AT FIRST FLOOR LEVEL

Received 24/10/1986 Decision & Date
Completd 28/10/1986 Conditional 24/11/1986
Revised

TP No TP/85/2357 Brief Description of Proposal 18 of 56
ERECTION OF A PREFABRICATED OFFICE EXTENSION TO BE
LOCATED ON THE ROOF, AND REPLACEMENT OF WINDOWS AT
FIFTH FLOOR LEVEL

Received 06/12/1985 Decision & Date
Completd 09/12/1985 29/01/1986L
Revised NO OBS.

TP No TP/86/0881 Brief Description of Proposal 19 of 56
THE COUNCIL RAISES NO OBJECTION TO THE ERECTION OF
A CONSERVATORY AT LOWER GROUND FLOOR LEVEL AND AN EXTENSION
AT GROUND FLOOR LEVEL.

Received 29/04/1986 Decision & Date
Completd 02/05/1986 01/07/1986L
Revised OBS

TP No TP/86/0935 Brief Description of Proposal 20 of 56
THE COUNCIL RAISE NO OBJECTION TO THE PROPOSED CONSTRUCTION
OF A MEDICAL GAS STORE ON THE DOVEHOUSE STREET FRONTAGE.

Received 14/05/1986 Decision & Date
Completd 16/05/1986 26/06/1986?
Revised

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :Xref : Oratory School Buildings, Oratory Lane
Notes :

PP000400

TP No TP/88/0014 Brief Description of Proposal 21 of 56

NO OBJECTION TO ERECTION OF A NEW MORTUARY AND POST MORTEM
BUILDING, AN EXTENSION TO THE ORATORY BUILDING AT 4TH
FLOOR LEVEL AND A PEDESTRIAN RAMP.Received 16/12/1987 Decision & Date
Completd 05/01/1988 Conditional 11/03/1988
Revised

TP No TP/88/1005 Brief Description of Proposal 22 of 56

NO OBJECTION WAS RAISED TO THE PROPOSED ERECTION OF A NEW
THEATRE BLOCK.Received 29/04/1988 Decision & Date
Completd 04/05/1988 01/09/1988L Works
Revised OBS Completed
Y 14/10/1992

TP No TP/88/1014 Brief Description of Proposal 23 of 56

THE COUNCIL RAISES NO OBJECTION TO THE PROPOSED
ERECTION AND RETENTION FOR A PERIOD OF 3 YEARS OF A TWO
STOREY BUILDING TO PROVIDE TEMPORARY HOSPITAL KITCHEN
AND STAFF DINING ROOM FROM JUNE 1988.Received 26/02/1988 Decision & Date
Completd 04/05/1988 29/06/1988L
Revised OBS

TP No TP/88/1267 Brief Description of Proposal 24 of 56

NO OBJECTION TO PROPOSED ERECTION OF A ROOF EXTENSION
TO PART OF THE WALLACE WING ROOF.Received 09/06/1988 Decision & Date
Completd 13/06/1988 Observations 21/07/1988L Works
Revised NO OBJCTN Completed
14/10/1992

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP8/0430

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No TP/89/0163 Brief Description of Proposal 25 of 56

PROPOSED DETAILS OF THE LANDSCAPING AND FULHAM ROAD
FRONTAGE OF PHASE 1 OF THE HOSPITAL REDEVELOPMENT.
TO THE DETAILS WHICH YOU HAVE SUBMITTED PURSUANT TO CIRCULAR
18/84 DECISION LETTER DATED 1/9/88 OF PHASE 1 OF THE
HOSPITAL REDEVELOPMENT.Received 29/12/1988 Decision & Date
Completd 25/01/1989 05/04/1989L
Revised

TP No TP/89/2185 Brief Description of Proposal 26 of 56

NO OBJECTION RAISED ON PROPOSED INSTALLATION OF A
NEW WINDOW AT REAR 3RD FLOOR LEVEL.Received 06/12/1989 Decision & Date
Completd 19/12/1989 Observations 06/02/1990L
Revised

TP No TP/90/0291 Brief Description of Proposal 27 of 56

NO OBJECTION RAISED ON THE PROPOSED BASEMENT AND
GROUND FLOOR EXTENSION TO THE RADIOTHERAPY DEPARTMENTReceived 09/02/1990 Decision & Date
Completd 19/02/1990 Observations 28/03/1990L Works
Revised Completed
14/10/1992

TP No TP/90/2027 Brief Description of Proposal 28 of 56

INFILLING OF TWO LIGHTWELL AREAS AT THE REAR OF THIS
PROPERTY TO CREATE ADDITIONAL OFFICE FLOORSPACE.
NO OBJECTION.
CIRCULAR 18/87Received 23/11/1990 Decision & Date
Completd 28/11/1990 09/08/1991?
Revised 21/06/1991 CON OBS L

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

S.ename : Royal Marsden Hospital

Comment :

TP Arch/History : 4797 H 10859

See Also :

PP000489

Xref : Oratory School Buildings, Oratory Lane

Notes :

TP No TP/92/1967 Brief Description of Proposal 29 of 56

ALTERATIONS TO THE ROOF TO FORM PLANTROOM AND ELEVATIONAL
ALTERATIONS AT THIRD FLOOR LEVEL ON THE FULHAM ROAD
FRONTAGE.

ALSO REVISED 17.2.1993.

Received 07/12/1992 Decision & Date

Completd 14/12/1992 Conditional 08/03/1993

Revised 05/02/1993

TP No / / Brief Description of Proposal 30 of 56

ALTERATIONS SHOWN ON DRAWINGS 2726/002B, 003A AND 004F MAY
BE TREATED AS NON-MATERIAL REVISIONS TO THE PP DATED
8.3.93. (TP/92/1967)

Received 08/03/1994 Decision & Date

Completd 22/03/1994L

Revised

TP No TP/95/0220 Brief Description of Proposal 31 of 56

ERECTION OF A MEDICAL GAS STORAGE CAGE MEASURING 4.27
X 3.66 METRES BY 2 METRES IN HEIGHT, AT ROYAL MARSDEN NHS
TRUST, FULHAM ROAD.

Received 14/12/1994 Decision & Date

Completd 31/01/1995 Conditional 10/04/1995

Revised

TP No TP/95/0912 Brief Description of Proposal 32 of 56

ERECTION OF NEW ENTRANCE LOBBY, WAITING ROOM AND OFFICE
EXTENSION TO OUTPATIENTS ENTRANCE IN DOVEHOUSE STREET, AT
ROYAL MARSEDN N.H.S. TRUST, FULHAM ROAD.

SUPERSEDED BY CONSENT DATED 25.8.1995

Received 24/04/1995 Decision & Date

Completd 01/05/1995 Conditional 31/07/1995

Revised 27/06/1995

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Sitename : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP000480

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No TP/95/0912 Brief Description of Proposal 33 of 56

ERECTION OF NEW ENTRANCE LOBBY, WAITING ROOM & OFFICE
EXTENSION TO OUTPATIENTS ENTRANCE IN DOVEHOUSE STREET AT
ROYAL MARSDEN N.H.S TRUST, FULHAM ROAD.

THIS SUPERSEDES CONSENT DATED 31.7.1995.

Received 24/04/1995	Decision & Date		Works
Completed 01/05/1995	Conditional	25/08/1995	Completed
Revised			Y 15/01/1997

TP No TP/95/2018 Brief Description of Proposal 34 of 56

INSTALLATION OF UPVC FRAMED WINDOWS. (GRANARD HOUSE)

Received 15/09/1995	Decision & Date	
Completed 19/09/1995	Conditional	03/11/1995
Revised		

TP No TP/96/1414 Brief Description of Proposal 35 of 56

REMOVAL OF ROOF ACCESS LADDERS AND REPLACEMENT WITH
BALUSTRADE AT RIDGE LEVEL

Received 19/06/1996	Decision & Date	
Completed 26/06/1996	Unconditional	24/09/1997
Revised		

TP No TP/97/2799 Brief Description of Proposal 36 of 56

REPLACE EXISTING PORCH AND CANOPY TO PRIVATE PATIENTS;
ENTRANCE

Received 08/12/1997	Decision & Date	
Completed 18/12/1997	Conditional	05/03/1998
Revised		

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Tenement : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP040489

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No TP/98/1164 Brief Description of Proposal 37 of 56
INFILLING OF BASEMENT YARD TO PROVIDE ADDITIONAL STORAGE AREA.

Received 08/06/1998 Decision & Date
Completd 18/06/1998 Conditional 29/09/1998
Revised

TP No Brief Description of Proposal 38 of 56

T & C P ACT 1990
FURTHER TO OUR SITE MEETING 30/6/1998 I WRITE TO CONFIRM THE
FOLLOWING:- THE AMENDED DIMENSIONS SHOWN ON YOUR PLANS
AP.339/1B AND 2B ARE ACCEPTABLE AS MINOR AMENDMENTS TO THE
PLANNING PERMISSION GRANTED ON 5/3/1998 REF:TP/97/2799 ..CONT/

Received Decision & Date
Completd
Revised

TP No Brief Description of Proposal 39 of 56

...CONTINUED///
THE USE OF NAYLOR BENTON "LIGHT A/S ETCHED" RECONSTITUTED
STONE IS ACCEPTABLE AS A FINISHING MATERIAL PURSUANT TO
CONDITION 3, ATTACHED TO THE ABOVE PERMISSION.

Received Decision & Date
Completd 02/07/1998L
Revised

TP No TP/98/1389 Brief Description of Proposal 40 of 56

INSTALLATION OF REPLACEMENT WINDOWS IN SOUTH-EAST AND
SOUTH-WEST ELEVATIONS OF THE WALLACE WING, DOVEHOUSE STREET

Received 20/07/1998 Decision & Date
Completd 23/07/1998 Conditional 27/10/1998
Revised 19/10/1998

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Sitename : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP010439

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No TP/98/1389 Brief Description of Proposal 41 of 56

LETTER FROM PLANNING EXPLAINING "... THE DETAILS SHOWN ARE
ACCEPTABLE PURSUANT TO CONDITION 3. ATTACHED TO THE PLANNING
PERMISSION GRANTED UNDER THE ABOVE REFERENCE ON 27.10.98.Received 09/11/1998 Decision & Date
Completd
Revised 18/11/1998L

TP No PP/99/0173 Brief Description of Proposal 42 of 56

RAISE AND MODIFY EXISTING PARAPET WALL TO FLAT ROOF OF
RADIOTHERAPY BUILDING TO SCREEN REPLACEMENT AIR
HANDLING PLANT FOR PHARMACY.Received 08/01/1999 Decision & Date
Completd 26/01/1999 Conditional 27/04/1999
Revised

TP No PP/99/1331 Brief Description of Proposal 43 of 56

ALTERATIONS AND EXTENSIONS TO HISTOPATHOLOGY DEPARTMENT.

Received 29/06/1999 Decision & Date
Completd 01/07/1999 Conditional 17/09/1999
Revised

TP No PP/00/0049 Brief Description of Proposal 44 of 56

ERÉCTION OF A CONSERVATORY TO BE USED AS A DAY ROOM FOR
PATIENTS.Received 22/12/1999 Decision & Date
Completd 06/01/2000 Conditional 08/02/2000
Revised

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PP010180

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No PP/00/0049 Brief Description of Proposal 45 of 56

"I REFER TO YOUR LETTER DATED 19/06/2000 ACCOMPANIED BY PLAN NO. A2Q2988/2 SHOWING REVISIONS TO PROPOSED CONSERVATORY ON ROOF. I CONFIRM THE DETAILS SHOWN ARE ACCEPTABLE AS A MINOR AMENDMENT TO PLANNING PERMISSION GRANTED UNDER ABOVE REFERENCE ON 08/02/2000"

Received	Decision & Date	
Completed	Approval of Details	21/07/2000L
Revised		

TP No PP/00/0049 Brief Description of Proposal 46 of 56

LETTER FROM COUNCIL: "IT IS MY OPINION THAT THE AMENDED CONSERVATORY DESIGN AS INDICATED ON THE SUBMITTED DRAWING NOS. C/9020/3/1 PAGES 1 & 2 IS ACCEPTABLE AS A MINOR AMENDMENT TO PLANNING PERMISSION PP/00/0049 GRANTED ON 08/02/2000 AND AS SUCH DOES NOT REQUIRE PLANNING PERMISSION."

Received	Decision & Date	
Completed		27/02/2002L
Revised		

TP No PP/00/0769 Brief Description of Proposal 47 of 56

OVERHAUL OF EXISTING RAILINGS INCLUDING FORMATION OF NEW ARCHED PEDESTRIAN GATEWAY AND REPLACEMENT OF EXISTING MISMATCHED WINDOWS WITH NEW UPVC.

Received 27/03/2000	Decision & Date	
Completed 29/03/2000	Conditional	11/05/2000
Revised		

TP No PP/00/1169 Brief Description of Proposal 48 of 56

EXTENSION AND REFURBISHMENT OF SECOND AND THIRD FLOORS OF EXISTING RAVEN WARD TO FORM NEW REHABILITATION UNIT FOR CANCER PATIENTS.

Received 12/05/2000	Decision & Date	
Completed 17/05/2000	Conditional	05/09/2000
Revised		

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Name : Royal Marsden Hospital

Comment :
TP Arch/History : 4797 H 10859
See Also :

PPG000000

Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No PP/00/2908 Brief Description of Proposal 49 of 56

REPLACEMENT OF REVOLVING DOOR IN FULHAM ROAD ELEVATION, AT
ROYAL MARSDEN HOSPITAL, 203 FULHAM ROAD.Received 19/12/2000 Decision & Date
Completd 20/12/2000 Conditional 13/03/2001
Revised 02/03/2001

TP No PP/01/0188 Brief Description of Proposal 50 of 56

REPLACEMENT OF SEVEN NO. ALUMINIUM WINDOWS WITH UPVC TYPE TO
COURTYARD ELEVATION OF THE SECOND FLOOR OF WALLACE WING.
AT ROYAL MARSDEN HOSPITAL, WALLACE WING, 203 FULHAM ROAD.Received 19/01/2001 Decision & Date
Completd 25/01/2001 Conditional 02/03/2001
Revised 28/02/2001

TP No PP/01/2272 Brief Description of Proposal 51 of 56

CONSTRUCTION OF RADIOTHERAPY LINAC BUNKER AT BASEMENT/
COURTYARD LEVEL; REMOVAL OF 2 NO. BAYS TO ADJACENT RAVEN WING;
CONSTRUCTION OF REPLACEMENT EXTERNAL STORE.Received 28/09/2001 Decision & Date
Completd 04/10/2001 Conditional 30/11/2001
Revised 16/10/2001

TP No PP/02/0711 Brief Description of Proposal 52 of 56

REPLACEMENT OF EXISTING WINDOWS FACING STEWART'S GROVE WITH
UPVC FRAMED WINDOWS. (ORATORY BUILDING)Received 28/02/2002 Decision & Date
Completd 25/03/2002 Conditional 09/05/2002
Revised

201-211 FULHAM ROAD

Property Card N° : 0328 193 00

Site name : Royal Marsden Hospital

PP040429

Comment :
TP Arch/History : 4797 H 10859
See Also :Xref : Oratory School Buildings, Oratory Lane
Notes :

TP No PP/02/0711 Brief Description of Proposal 53 of 56

LETTER FROM COUNCIL: "IT IS CONSIDERED THAT THE PROPOSED
AMENDMENTS TO THE APPROVED SCHEME WHICH RELATE TO THE
INTRODUCTION OF VERTICAL GLAZING BARS TO THE GROUND AND FIRST
FLOOR WINDOWS, AS SHOWN ON DRAWING FR/100/B ARE ACCEPTABLE &
CAN BE CONSIDERED AS A MINOR AMENDMENT TO PLANNING PERMISSION"Received Decision & Date
Completd 17/09/2002L
Revised

TP No PP/02/2491 Brief Description of Proposal 54 of 56

ERECTION OF SECOND FLOOR EXTENSION TO ORATORY BUILDING.

Received 25/10/2002 Decision & Date
Completd 07/11/2002 Conditional 31/12/2002
Revised 12/12/2002

TP No PP/03/2410 Brief Description of Proposal 55 of 56

ERECTION OF A TEMPORARY OPERATING THEATRE TO REAR OF MAIN
BLOCK AT COURTYARD LEVEL, FOR A PERIOD OF FIVE YEARS.Received 20/11/2003 Decision & Date
Completd 24/11/2003 Conditional 19/01/2004
Revised

TP No PP/04/0132 Brief Description of Proposal 56 of 56

EXTENSION TO PROVIDE SINGLE STOREY OFFICE ACCOMMODATION
WITHIN INTERNAL COURTYARD AT FIRST FLOOR LEVEL.Received 15/01/2004 Decision & Date
Completd 15/01/2004
Revised CURRENT

PLANNING SERVICES APPLICATION

CONSULTATION SHEET

APPLICANT:

N. Fairham,
Frederick Gibberd Partnership,
117/121 Curtain Road,
London,
EC2A 3AD

Jamie Chub
0780847365

APPLICATION NO: PP/04/00489

CASE OFFICER: Ms. K. Redfern

APPLICATION DATED: 25/02/2004

DATE ACKNOWLEDGED: 01 March 2004

APPLICATION COMPLETE: 27/02/2004

DATE TO BE DECIDED BY: 23/04/2004

SITE: Royal Marsden Hospital, 201/211 Fulham Road, London, SW3 6JJ
PROPOSAL: Replacement of existing rooftop plant and provision of additional chiller.

ADDRESSES TO BE CONSULTED

- 1. Stewart House, Stewart Grove
2. 1-6 (consec) Stewart's Grove
3.
4. 34 Summer Place
5.
6. 64-78 (even) } Fulham Road
7.
8. 191-195 (odd) }
9.
10.
11. 7, 9, 11 Sydney Street.
12.
13.
14.
15.

30

CONSULT STATUTORILY

- English Heritage Listed Bdgs - CATEGORY:
English Heritage Setting of Bdgs Grade I or II
English Heritage Demolition in Cons. Area
Demolition Bodies
DoT Trunk Road - Increased traffic
DoT Westway etc.,
Neighbouring Local Authority
Strategic view authorities
Kensington Palace
Civil Aviation Authority (over 300')
Theatres Trust
National Rivers Authority
Thames Water
Crossrail
LRT/Chelsea-Hackney Line/Cross Rail Line 2
Victorian Society
DTLR Dept. Transport Loc.Gov.& Regions

ADVERTISE

- Effect on CA
Setting of Listed Building
Works to Listed Building
Departure from UDP
Demolition in CA
"Major Development"
Environmental Assessment
No Site Notice Required
Notice Required other reason
Police
L.P.A.C
British Waterways
Environmental Health
GLA - CATEGORY:
Govt. Office for London
Twentieth Century Society

1/3

2

Royal Borough of Kensington and Chelsea
GGP Point in Polygon Search Results
Corporate Land and Property Gazetteer at 3rd February 2004
Buildings and their Units

Building Shell	Elon Ltd		66	Fulham Road		SW3 6HH
Non-Residential Shop Unit	Basement And Ground Floor	66	Fulham Road	✓		SW3 6HH
Non-Residential Shop Building		68/70	Fulham Road	✓		SW3 6HH
Building Shell		68a	Fulham Road	✓		SW3 6HH
Residential Unit	Flat A	70	Fulham Road	✓		SW3 6HH
Building Shell		72	Fulham Road			SW3 6HH
Non-Residential Unit		72	Fulham Road	✓		SW3 6HH
Residential Unit	Flat A	72	Fulham Road	✓		SW3 6HH
Building Shell		74	Fulham Road			SW3 6HH
Non-Residential Shop Unit	Ground Floor	74	Fulham Road	✓		SW3 6HH
Non-Residential Building	Great Expectations & Night Owls: Shop	78	Fulham Road	✓		SW3 6HH
Building Shell		181	Fulham Road			SW3 6JN
Non-Residential Unit	Bar/club/restaurant Basement And Ground Floor	181	Fulham Road	✓		SW3 6JN
Residential Unit	Flat 1	181	Fulham Road	✓		SW3 6JN
Residential Unit	Flat 2	181	Fulham Road	✓		SW3 6JN
Residential Unit	Flat 3	181	Fulham Road	✓		SW3 6JN
Non-Residential Shop Building		183/189	Fulham Road	✓		SW3 6JN
Building Shell		189	Fulham Road			SW3 6JN
Residential Unit	Flat 1	191	Fulham Road	✓		SW3 6JL

Residential Unit	Flat 2		191	Fulham Road	✓	SW3 6JL
Residential Unit	Flat 3		191	Fulham Road	✓	SW3 6JL
Building Shell			191/193	Fulham Road		SW3 6JL
Non-Residential Shop Unit	Ground Floor		191/193	Fulham Road		SW3 6JL
Building Shell			191/195	Fulham Road		SW3 6JL
Non-Residential Shop Building			195	Fulham Road	✓	SW3 6JL
Building Shell		Stewart's House		Stewart's Grove		SW3 6PB
Residential Unit	Flat 1	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Unit	Flat 2	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Unit	Flat 3	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Unit	Flat 4	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Unit	Flat 5	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Unit	Flat 6	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Unit	Flat 7	Stewart's House		Stewart's Grove	✓	SW3 6PB
Residential Building			1	Stewart's Grove	✓	SW3 6PD
Residential Building			2	Stewart's Grove	✓	SW3 6PD
Residential Building			3	Stewart's Grove	✓	SW3 6PD
Residential Building			4	Stewart's Grove	✓	SW3 6PD
Residential Building			5	Stewart's Grove	✓	SW3 6PD
Residential Building			6	Stewart's Grove	✓	SW3 6PD
Residential Building			49	Stewart's Grove		SW3 6PH

~~Non-Residential Office Building 53 Stewart's Grove SW3.6PH~~

Non-Residential Building Terence J St. Millett Solicitors: Office 34 Sumner Place ✓ SW7 3NT

~~Building Shell 25 Sydney Mews SW3 6HL~~

~~Residential Building 26 Sydney Mews SW3 6HL~~

Residential Building 7 Sydney Street ✓ SW3 6PU

Residential Building 9/11 Sydney Street ✓ SW3 6PU

Total Number of Buildings and Units Found 46

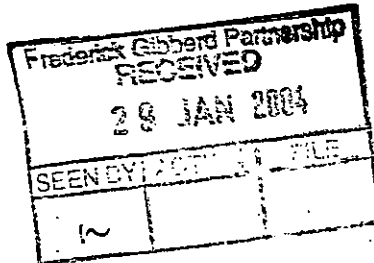
PP010189



Our Ref: HT: 11508/TC

28 January 2004

Howard Cox
CJ Design Partnership Ltd
The Chapel House
66 Bourne Road
Bexley
Kent
DA5 1LU



Hann Tucker Associates

Consultants in Acoustics
Noise and Vibration Control

Duke House 1-2 Duke Street
Woking Surrey GU21 5BA

(T) +44 (0)1483 770595
(F) +44 (0)1483 729565
(E) enquiries@hanntucker.co.uk
(W) www.hanntucker.co.uk

Directors:-
Stuart G Morgan CEng MIMechE MCIBSE FIOA
Simon R Hancock BEng(Hons) MIOA
John L Gibbs MIOA(D)

By post and facsimile on: 01322 555432

Dear Howard

RE: ROYAL MARSDEN HOSPITAL - FULHAM

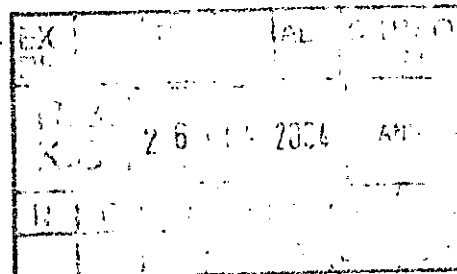
Following the receipt of the additional information as requested in our letter dated the 13th of January please find enclosed a bound copy of our Combined Environmental Noise Survey And Plant Noise Assessment Report 11508/CENS1 pertaining to the above project.

We trust you will find the enclosed to be in order, should you have any comments or queries please do not hesitate to contact us.

Yours sincerely
for HANN TUCKER ASSOCIATES

Teli Chinelis

cc Colin Randle - Marsden Hospital



PP040189

Royal Marsden Hospital Fulham

COMBINED ENVIRONMENTAL NOISE SURVEY AND PLANT NOISE ASSESSMENT REPORT 11508/CENS1

For :

CJ Design Partnership Ltd
The Chapel House
66 Bourne Road
Bexley
Kent
DA5 1LU

28 January 2003

HANN TUCKER ASSOCIATES

Consultants in Acoustics
Noise and Vibration

Duke House
1-2 Duke Street
WOKING
Surrey GU21 5BA

Tel : 01483 770595
Fax : 01483 729565

e-mail: Enquiries@HannTucker.co.uk

EX	RECEIVED	26 JAN 2004
P.O.	K.O.	26 JAN 2004
N	C	

(cb)

PP010480

REPORT 11508/CENS1

CONTENTS	Page
1.0 INTRODUCTION.....	1
2.0 OBJECTIVES.....	1
3.0 SITE DESCRIPTION.....	1
4.0 ACOUSTIC TERMINOLOGY.....	2
5.0 METHODOLOGY.....	3
6.0 RESULTS.....	5
7.0 DISCUSSION OF NOISE CLIMATE.....	6
8.0 PLANT NOISE EMISSION CRITERIA.....	6
9.0 PLANT NOISE ASSESSMENT.....	7
10.0 INTERNAL NOISE ASSESSMENT.....	7
11.0 CONCLUSIONS.....	9

1.0 INTRODUCTION

New items of plant are proposed to be installed at The Royal Marsden Hospital in Fulham.

Roof plant will be subject to noise emission limits enforceable by the Local Authority in order to protect neighbouring noise sensitive premises.

Internal noise sensitive areas will be subject to external noise intrusion from the proposed plant situated inside the lightwell.

Hann Tucker Associates have therefore been commissioned to undertake a detailed environmental noise survey of the site. This report presents the results of the survey.

2.0 OBJECTIVES

To establish, by means of a detailed short daytime fully manned environmental noise monitoring, the existing A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} environmental noise levels at selected accessible roof and lightwell level positions around the proposed development site.

To establish, by means of detailed 24 hour daytime and night time fully automated environmental noise monitoring, the existing A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} environmental noise levels at selected roof and lightwell level positions around the proposed development site.

To measure L_{10} and L_{90} octave band spectra noise levels for typical daytime periods at each measurement position in order to obtain a more detailed description of the noise climate.

Based on the results of the noise survey, and in conjunction with the Local Authority, to recommend suitable plant noise emission criteria.

To carry out an acoustic assessment of the proposed plant items to determine whether they comply or not with the proposed noise emission criteria.

To carry out an acoustic assessment of the required sound reduction of the external building fabric overlooking the lightwell in order for suitable internal noise limits to be met.

3.0 SITE DESCRIPTION

The Royal Marsden Hospital overlooks Fulham Road which is part of the relatively busy A308. The new roof plant is proposed to be positioned at the North East side of the hospital and will replace the existing plant.

Residential premises lie at a lower ground level relative to the hospital, to the North East of the building such that the edge of the hospital building should provide a line of sight screening to the nearest residential premises.

The lightwell, where additional new items of plant are proposed to be located, is affected by noise via two paths; the high level roof opening and a second ground level opening.

4.0 ACOUSTIC TERMINOLOGY

PP020480

The acoustic terms used in our Report are as follows:

- dB** : Decibel - Used as a measurement of sound pressure level. It is the logarithmic ratio of the noise being assessed to a standard reference level.
- dB(A)** : The human ear is more susceptible to mid-frequency noise than the high and low frequencies. To take account of this when measuring noise, the 'A' weighting scale is used so that the measured noise corresponds roughly to the overall level of noise that is discerned by the average human. It is also possible to calculate the 'A' weighted noise level by applying certain corrections to an un-weighted spectrum. The measured or calculated 'A' weighted noise level is known as the dB(A) level.

Because of being a logarithmic scale noise levels in dB(A) do not have a linear relationship to each other. For similar noises, a change in noise level of 10dB(A) represents a doubling or halving of subjective loudness. A change of 3dB(A) is just perceptible.

- L₁₀ & L₉₀**: If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The L_n indices are used for this purpose, and the term refers to the level exceeded for n% of the time, hence L₁₀ is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L₉₀ is the average minimum level and is often used to describe the background noise.

It is common practice to use the L₁₀ index to describe traffic noise, as being a high average, it takes into account the increased annoyance that results from the non-steady nature of traffic noise.

- L_{eq}** : The concept of L_{eq} (equivalent continuous sound level) has up to recently been primarily used in assessing noise in industry but seems now to be finding use in defining many other types of noise, such as aircraft noise, environmental noise and construction noise.

L_{eq} is defined as a notional steady sound level which, over a stated period of time, would contain the same amount of acoustical energy as the actual, fluctuating sound measured over that period (e.g. 1 hour).

The use of digital technology in sound level meters now makes the measurement of L_{eq} very straightforward.

- L_{max}** : L_{max} is the maximum sound pressure level recorded over the period stated. L_{max} is sometimes used in assessing environmental noise where occasional loud noises occur, which may have little effect on the L_{eq} noise level.

5.0 METHODOLOGY

PP010100

5.1 Manned Survey

PP010100

5.1.1 Procedure

Fully manned environmental noise monitoring was undertaken from approximately 14:00 to 14:45 hours on Tuesday 16 December 2003.

During the survey period the wind conditions were calm and from approximately a North Westerly direction. The sky was generally clear. There was no rain during the survey. Road surfaces were dry throughout the survey period.

Measurements were taken of the A-weighted (dBA) L_{10} , L_{50} , L_{eq} and L_{max} sound pressure levels over periods of not less than 15 minutes in each hour. Atypical noises were excluded as far as reasonably possible. The noise levels measured are therefore assumed to be representative of the noise climate during the hour in which the measurements were taken

In addition, at each position typical L_{10} , L_{50} , L_{eq} and L_{max} octave band spectra (from 63Hz to 8kHz) were taken in order to gain a more detailed description of the prevailing noise climate.

5.1.2 Measurement Positions

The noise level measurements were undertaken at 2 positions around the development site. The Positions Nos. 3 and 4 were selected in order to assess typical noise levels at the development site for subsequent use in setting plant noise emission criteria. The measurement positions are described below, and their approximate locations are indicated on the enclosed Site Plan 11508/SP1.

Position No	Description
3	Microphone positioned on a tripod at the edge of the building facing towards the residential premises to the North East.
4	Microphone positioned on a tripod and situated inside the lightwell at the level where the new plant are to be located.

PP010480

5.1.3 Instrumentation

The instrumentation used during the manned survey is presented in the Table below:

Description	Manufacturer	Type
Type 1 Precision Sound Level Meter	Brüel and Kjær	2260
Type 1½" Condenser Microphone	Brüel and Kjær	4189
Type 1 Calibrator	Brüel and Kjær	4231
Pistonphone	Brüel and Kjær	4220

The sound level meter was mounted on a tripod and was fitted with a Brüel and Kjær microphone windshield.

The sound level meter was calibrated prior to and on completion of the surveys. No significant changes were found to have occurred (no more than 0.1 dB).

5.2 Unmanned Survey

5.2.1 Procedure

Fully automated environmental noise monitoring was undertaken from approximately 15:00 hours on Monday 15 December 2003 to 15:00 hours on Tuesday 16 December 2003.

Due to the nature of the survey, i.e. unmanned, it is not possible to accurately comment on the weather conditions throughout the entire survey period. However at the beginning and end of the survey period the wind conditions were calm from approximately a North Westerly direction. The sky was generally clear. We understand that generally throughout the survey period the weather conditions were fair.

Measurements were taken continuously of the A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} sound pressure levels over 15 minute periods.

5.2.2 Measurement Positions

The noise level measurements were undertaken at 2 positions around the development site. The Positions Nos. 1 and 2 were selected in order to assess typical noise levels at the development site for subsequent use in setting plant noise emission criteria and for assessing noise break in to the hospital. The measurement positions are described below, and their approximate locations are indicated on the enclosed Site Plan 11508/SP1.

Position No	Description
1	Microphone attached to ladder inside the lightwell where the new plant is to be located.
2	Microphone positioned on the roof level perimeter fence overlooking the residential premises situated to the North East.

5.2.3 Instrumentation

The instrumentation used during the survey is presented in the Table below:

Description	Manufacturer	Type
Type 1 Data Logging Sound Level Meter	Larson Davis	820
Type 1½" Condenser Microphone	Larson Davis	
Type 1 Calibrator	Larson Davis	CAL200

Each sound level meter, including the extension cable, was calibrated prior to and on completion of the survey. No significant changes were found to have occurred (no more than 0.1 dB).

Each sound level meter was located in an environmental case with the microphone connected to the sound level meter via an extension cable. Each microphone was fitted with a Larson Davis windshield.

6.0 RESULTS

6.1 Results of Manned survey

Typical daytime octave band spectra for each measurement position are presented on Graphs 11508/G1 and 11508/G2 enclosed.

6.2 Results of Unmanned survey

The results have been plotted on Time History Graphs 11508/TH1 and 11508/TH2 enclosed presenting the hourly A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} levels at each measurement position throughout the duration of the survey.

7.0 DISCUSSION OF NOISE CLIMATE

PP010400

7.1 Manned Survey

Throughout the duration of the short manned surveys the dominant noise source was noted to be mostly traffic noise from the nearby A308.

7.2 Unmanned Survey

Due to the nature of the survey, i.e. unmanned, it is not possible to accurately describe the dominant noise sources, or specific noise events throughout the entire survey period. However at the beginning and end of the survey period the dominant noise source was noted to be vehicular traffic.

8.0 PLANT NOISE EMISSION CRITERIA

We understand that the requirements of the Royal Borough of Kensington and Chelsea are as follows:

"Noise emitted by the external building services plant hereby permitted, shall not increase the existing lowest $L_{A90(10min)}$ background noise level at any time when the plant is operating. The noise emitted shall be measured or predicted at 1.0m from the façade of the nearest residential premises or at 1.2m above any adjacent residential garden, terrace, balcony or patio. The plant shall be serviced regularly in accordance with manufactures instructions and as necessary to ensure that the requirements of the condition are maintained."

Based on the above criteria, and the results of the environmental noise survey, we therefore propose the following future plant noise emission criteria to be achieved (with all relevant plant operating simultaneously) at 1 metre from the nearest noise sensitive facades based on the minimum measured L_{A90} noise level.

Position	Noise Emission Limit (dBA)			
	Daytime (07:00 – 18:00)	Evening (18:00 – 23:00)	Night Time (23:00 – 07:00)	24 Hrs
2	43	43	32	32

The criteria presented above may be increased by 5dBA for emergency plant such as standby generators. If plant contains tonal or impulsive characteristics the external design criteria should be reduced by 5dBA.

It should be noted that the above criteria are subject to final approval by the Royal Borough of Kensington and Chelsea.

9.0 PLANT NOISE ASSESSMENT

PP040489

We understand that the proposed new items of plant are as follows:

Plant	Location	Sound Power Level (dB) @ Octave Band Centre Frequency (Hz)								dBA
		63	125	250	500	1k	2k	4k	8k	
Chiller (L01068)	Roof Mounted	48	68	74	80	85	84	80	69	89
AHU 1	Roof Mounted	-	70	63	59	58	44	39	33	62
AHU 2	Lightwell	-	65	57	63	57	43	38	32	62

The chiller and AHU1 are to be located at roof level. We understand that the AHUs will be operated at 30% duty. However, for the purposes of our calculations we have assumed 100% duty since its noise contribution is significantly masked by other sources.

Drawing No 2348/ML/002 indicates the chiller and AHU1 to be approximately the same height

We have carried our calculations based on the above sound power levels for the chiller and AHU1. In our calculations we have subtracted losses for distance attenuation and screening attenuation (building's profile). The calculated total noise levels are as follows:

	AHU1	Chiller	Total
1m from nearest residential premise	11 dBA	42 dBA	42 dBA

With reference to the plant noise emission criteria in Section 8.0 above the chiller unit is acceptable for daytime and evening operation but not for the nighttime period. AHU1 however is acceptable for 24 hours operation.

We offer the following 3 options as possible remedial measures should the chiller be required to operate during the night time.

- OPTION 1:** Replace the chiller unit with a lower noise unit.
- OPTION 2:** Erect an acoustic barrier that will provide sufficient attenuation. Further guidance is included at the end of this report.
- OPTION 3:** Apply attenuation measures to existing chiller such as an acoustic enclosure and silencers on the fans.

10.0 INTERNAL NOISE ASSESSMENT

We understand that the room adjacent to the lightwell is to be utilized as a hospital ward or at any rate will be used for patient care. The external wall currently has windows in it. In order to ensure a reasonable internal noise level we have undertaken calculations to determine the required level of sound insulation for the window area.

Internal Noise Criteria

PP010430

There are no mandatory internal noise criteria for hospitals. Various reference documents present acoustic criteria for residential premises and these are likely to be suitable for hospital wards. The following presents a brief comparison of the various criteria for rooms within residential premises and details our suggested project criteria.

BS 8233: 1999 "Sound insulation and noise reduction for buildings"

British Standard 8233: 1999 "Sound insulation and noise reduction for buildings" recommends design criteria for internal ambient noise levels for dwellings providing a reasonable or good level of protection from external noise. It states that reasonable resting and sleeping conditions in living rooms and bedrooms can be achieved by the following target $L_{Aeq,T}$ internal noise levels:

Room Type	Design Range $L_{Aeq,T}$	
	Good	Reasonable
Living Rooms	30dB	40dB
Bedrooms	30dB	35dB

For night-time periods the document advises that maximum noise levels measured within the bedrooms should also not exceed 45dB L_{Amax} as a reasonable standard.

The BS 8233: 1999 Sound Insulation and Noise Reduction for Buildings also states:

"In gardens and balconies it is desirable that the steady noise level does not exceed 50 $L_{Aeq,T}$ dB and 55 $L_{Aeq,T}$ should be disregarded as the upper limit."

World Health Organisation (WHO) – Guidelines for Community Noise 1999

This document is the basis for many of the acoustic criterion adopted by various groups. The guidelines are generally concerned with avoiding negative effects on sleep disturbance. As a result the following levels are suggested:

Night-time

- 30dB $L_{Aeq,8hr}$
- 45dB L_{Amax}

The document also states "For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45dBA L_{Amax} more than 10-15 times per night, (Vallet & Vernet 1991)". In addition, the guidelines suggest, in order to maintain speech intelligibility and moderate annoyance, internal daytime and evening $L_{Aeq,16hr}$ levels should be below 35dB.

The WHO document also states:-

"To protect the majority of people from being seriously annoyed during the daytime, the outdoor sound level from steady, continuous noise should not exceed 55dB L_{Aeq} on balconies, terraces and in outdoor living areas. To protect the majority of people from being moderately annoyed during the daytime, the outdoor sound level should not exceed 50dB L_{Aeq} . Where it is practical and feasible, the lower outdoor sound level should be considered the maximum desirable sound level for new development."

PP030429

Proposed Internal Noise Criteria

Based on the above, our proposed internal acoustic design criteria and that used in our calculations is summarised in the table below.

Period	Room Usage	Criterion
Daytime (07:00 – 23:00 hours)	Bedrooms	35dB $L_{Aeq,16hr}$
	Other Living Areas	40dB $L_{Aeq,16hr}$
	Non-Habitable Rooms	45dB $L_{Aeq,16hr}$
	Outdoor Amenity Space	50 to 55dB $L_{Aeq,16hr}$
Night Time (23:00 – 07:00 hours)	Bedrooms	30dB $L_{Aeq,8hr}$
	Other Living Areas	45dB L_{Amax}
	Non-Habitable Rooms	35dB $L_{Aeq,8hr}$ 40dB $L_{Aeq,8hr}$

The above criteria have been proposed in order to provide a high level of comfort within the hospital ward whilst maintaining a suitable degree of cost effectiveness with regard to external building fabric

External building fabric specification

We have carried out detailed calculations based on the noise levels measured in the lightwell and the noise emissions from AHU2. Our assessment concludes that in order for the internal noise criteria identified in the previous section to be achieved, the external wall should achieve the following sound reduction indices.

Sound Reduction Index (R)(dB)				
⊗ Octave Band Centre Frequency (Hz)				
125	250	500	1k	2k
28	32	43	46	48

The above sound reduction performances would be typically be achieved by employing one of the following options:

1. Install secondary glazing to the existing window
2. Block up the existing window with 2 layers of plasterboard and 50mm mineral wool in the cavity between the existing glazing and the internal plasterboard.
3. Block up the existing window with blockwork.

For options 1 and 2 also ensure the existing window is adequately sealed.

11.0 CONCLUSIONS

A short daytime fully manned environmental noise survey has been undertaken in order to establish the currently prevailing environmental noise levels around the proposed development site at roof level and within the lightwell.

A detailed 24 hour daytime and night time fully automated environmental noise survey has been undertaken in order to establish the currently prevailing environmental noise climate around the proposed development site at roof level and in the lightwell.

Plant noise emission criteria have been recommended based on the results of the noise surveys and in conjunction with the Local Authority.

PP010409

An assessment of the plant noise emissions has been undertaken in accordance with the requirements of the Local Authority.

Possible remedial measures have been offered for consideration for attenuating noise due to the chiller if required for night time use.

Possible options for improving the sound reduction performance of the wall between the lightwell and new patient areas have been presented.



Teli Chinelis
HANN TUCKER ASSOCIATES

HT: 11508/TC

28 January 2004

ROYAL MARSDEN HOSPITAL, FULHAM**ACOUSTIC SPECIFICATION FOR****IMPERFORATE ACOUSTIC SCREEN**

The acoustic screen shall follow the design guidelines presented in site plan 11508/SP2. The screen shall extend to a height of at least 500mm above the top of the chiller unit.

The exact location and design of the screen shall be formally agreed with Hann Tucker Associates.

The screen shall be imperforate (i.e. no gaps) and acoustically sealed along the base and around any penetrations.

The screen shall comprise 100mm thick mineral wool packed to a density of not less than 48 kg/m³ with glass fibre tissue facing retained between 16 gauge galvanized mild steel sheet - perforated on the plant side with a free area of at least 25%. The screen shall have a minimum superficial mass of at least 27kg/m². The enclosed 11508/SK1 details typical construction of an acoustic screen.

The complete structure shall be inert, rot and vermin proof, and wind resistant to standards agreed with Client.

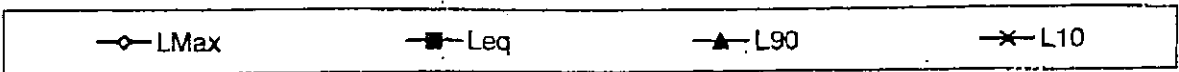
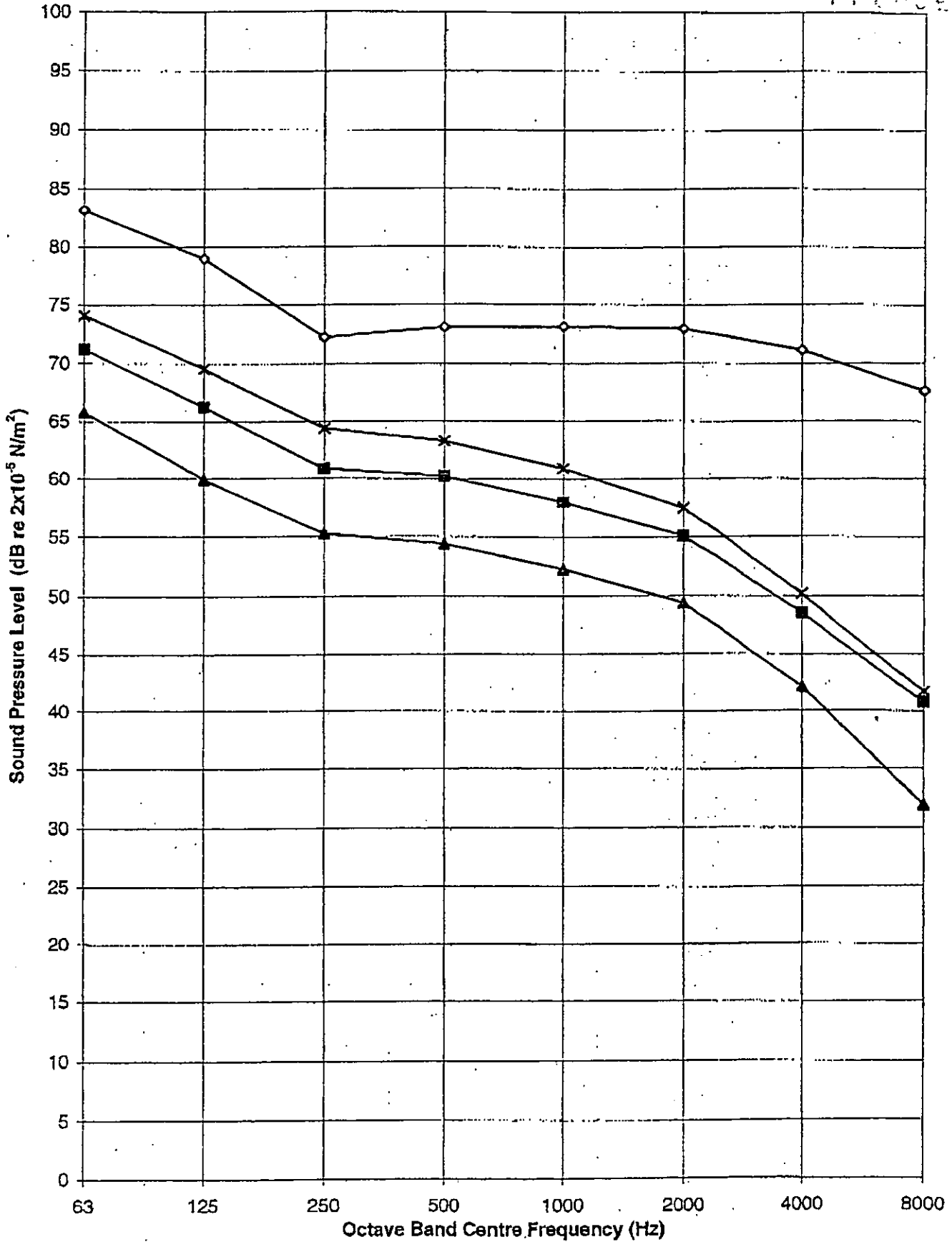
The acoustic media shall not comprise materials which are generally composed of mineral fibres, either man made or naturally occurring, which have a diameter of 3 microns or less and a length of 200 microns or less or which contain any fibres not sealed or otherwise stabilised to ensure fibre migration is prevented.

The Royal Marsden Hospital, Fulham

Octave Band Spectra

Position 3 16/12/03 14:00 - 14:15

PP010433



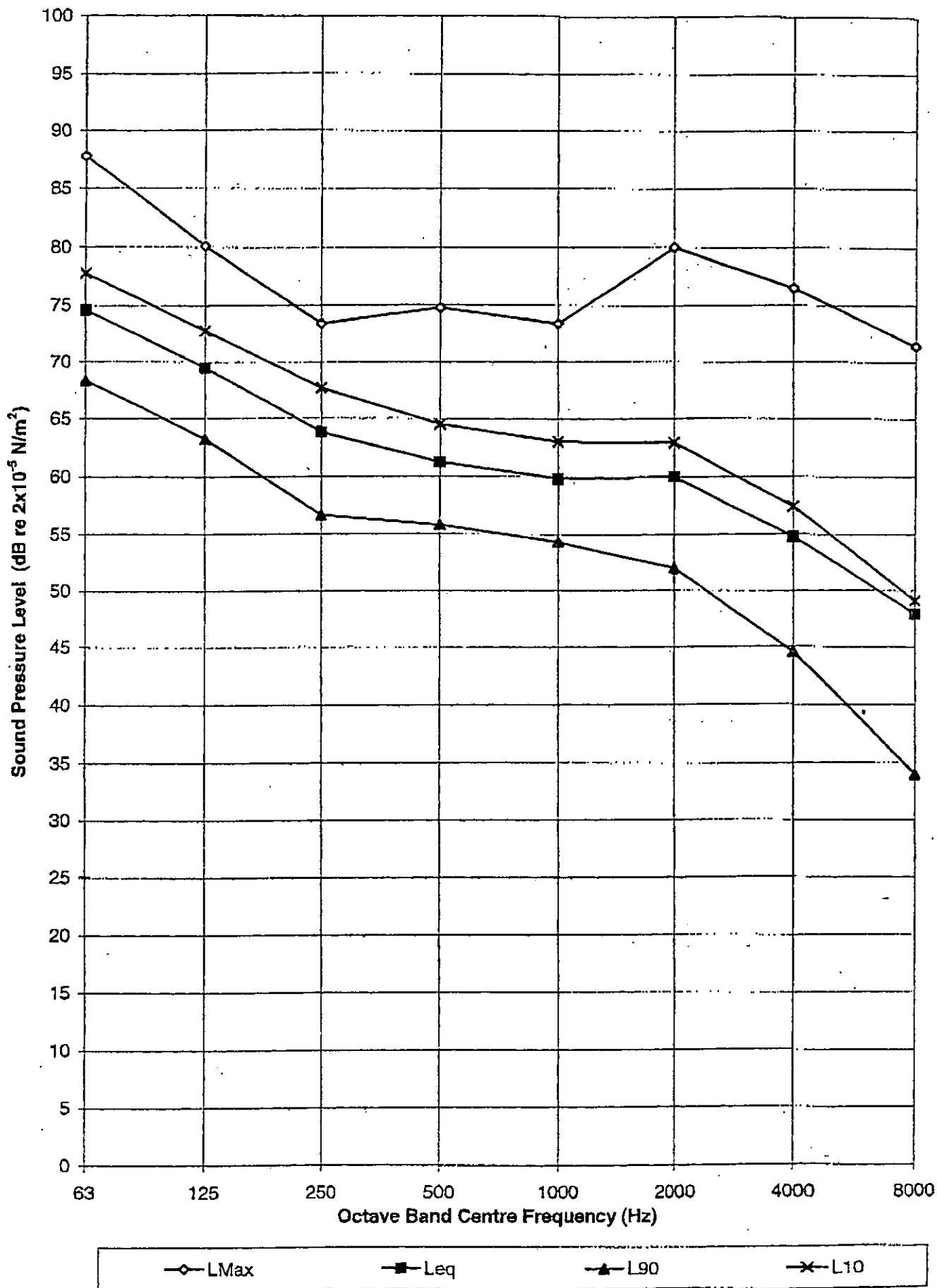
Graph 11508/G1

The Royal Marsden Hospital , Fulham

Octave Band Spectra

Position 4 16/12/03 14:30 - 14:45

PP010439



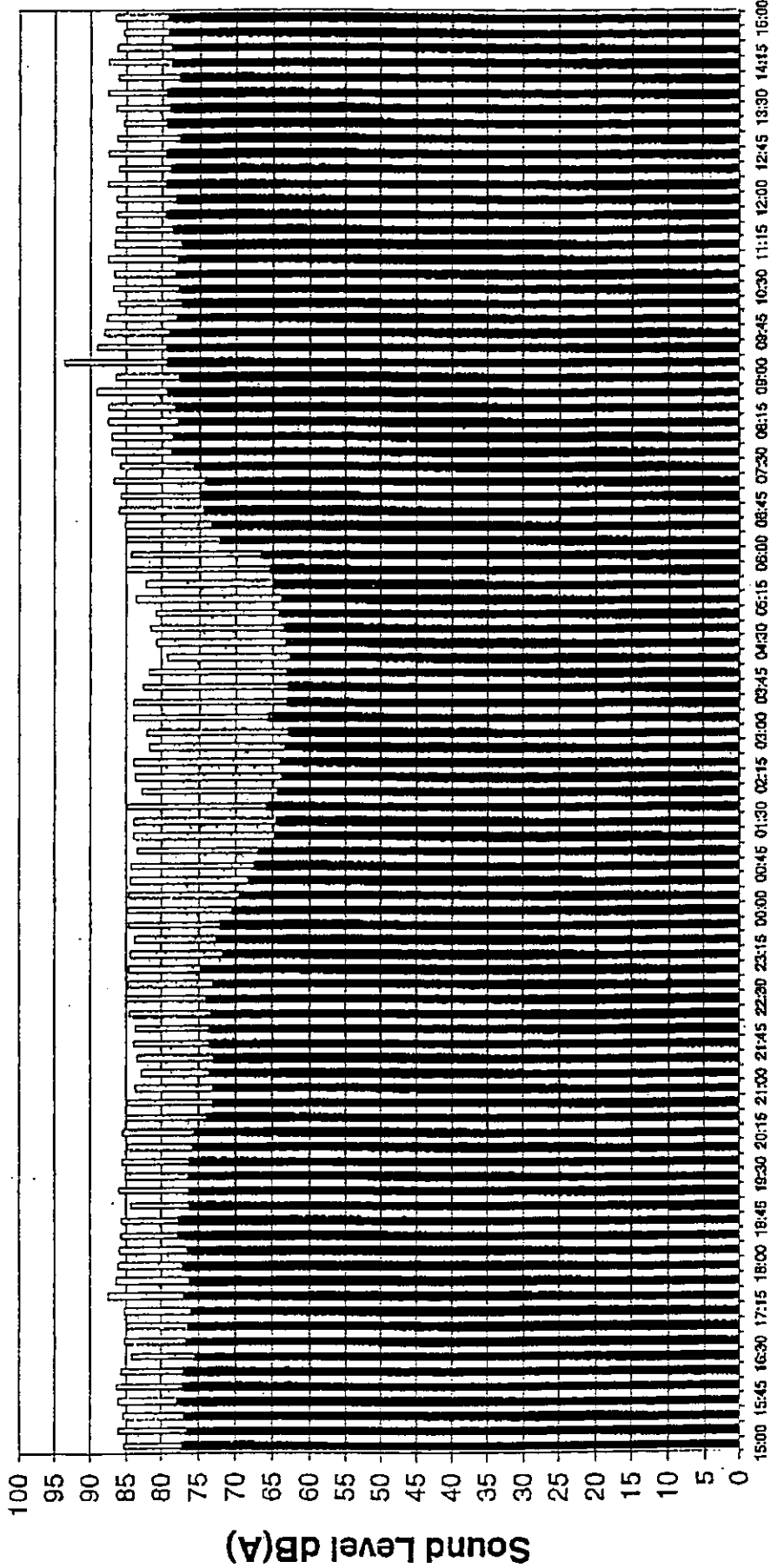
Graph 1150B/G2

The Royal Marsden Hospital, Fulham LA10 and LA90 Environmental Noise Levels

Position 1 Monday 15/12/03 to Tuesday 16/12/03

□	LA10
■	LA90

PPPPPPPP



Tuesday
16/12/03

Monday
15/12/03

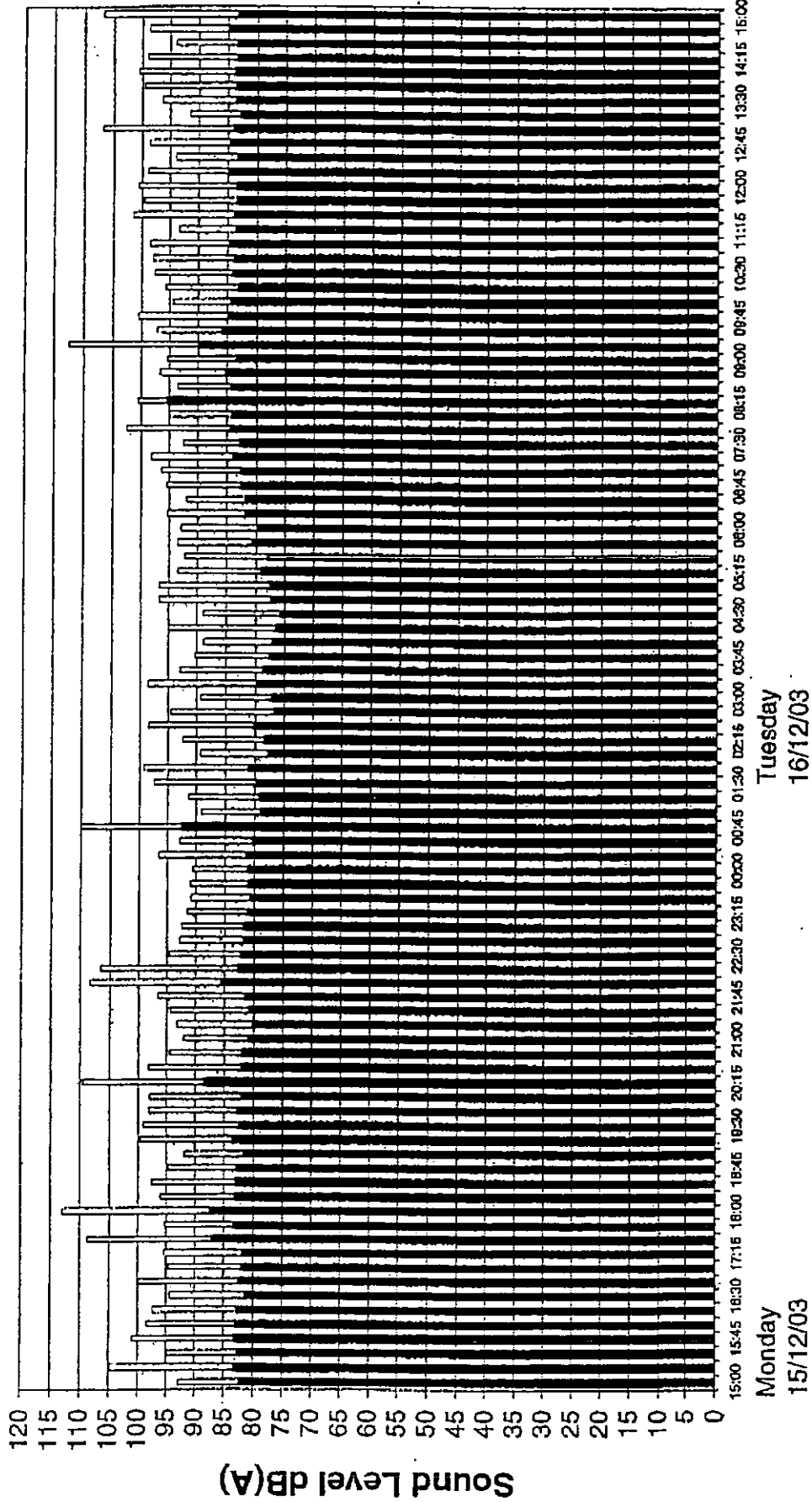
Date/Time-Hrs

11508/TH1

The Royal Marsden Hospital , Fulham
LAmx and LAeq Environmental Noise Levels
Position 1 Monday 15/12/03 to Tuesday 16/12/03

□ LAMax
 ■ LAeq

PPC 1 2 3 4



Monday
15/12/03

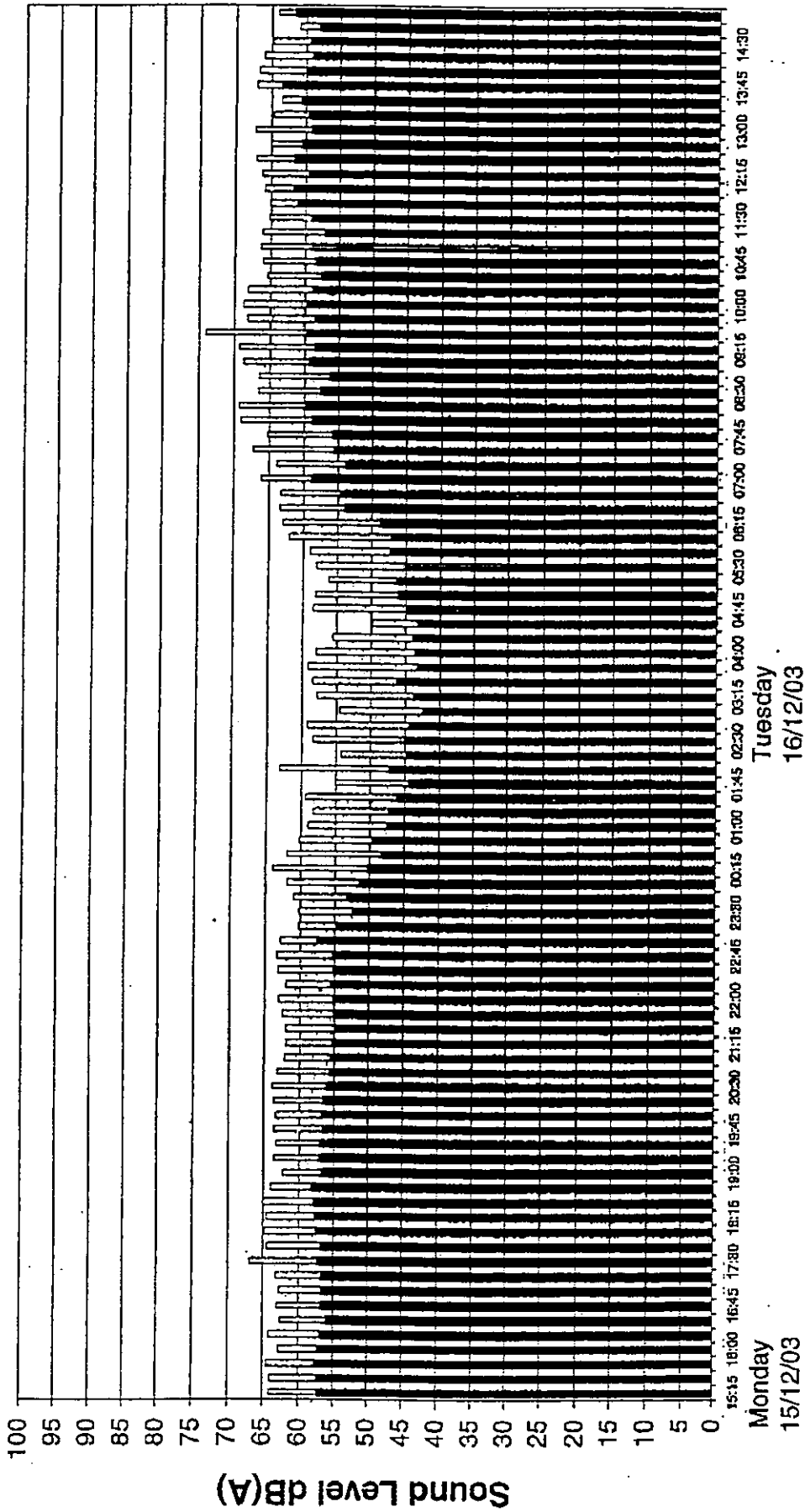
Tuesday
16/12/03

Date/Time-Hrs

The Royal Marsden Hospital , Fulham
LA10 and LA90 Environmental Noise Levels
Position 2 Monday 15/12/03 to Tuesday 16/12/03

□ LA10
 ■ LA90

PP000489

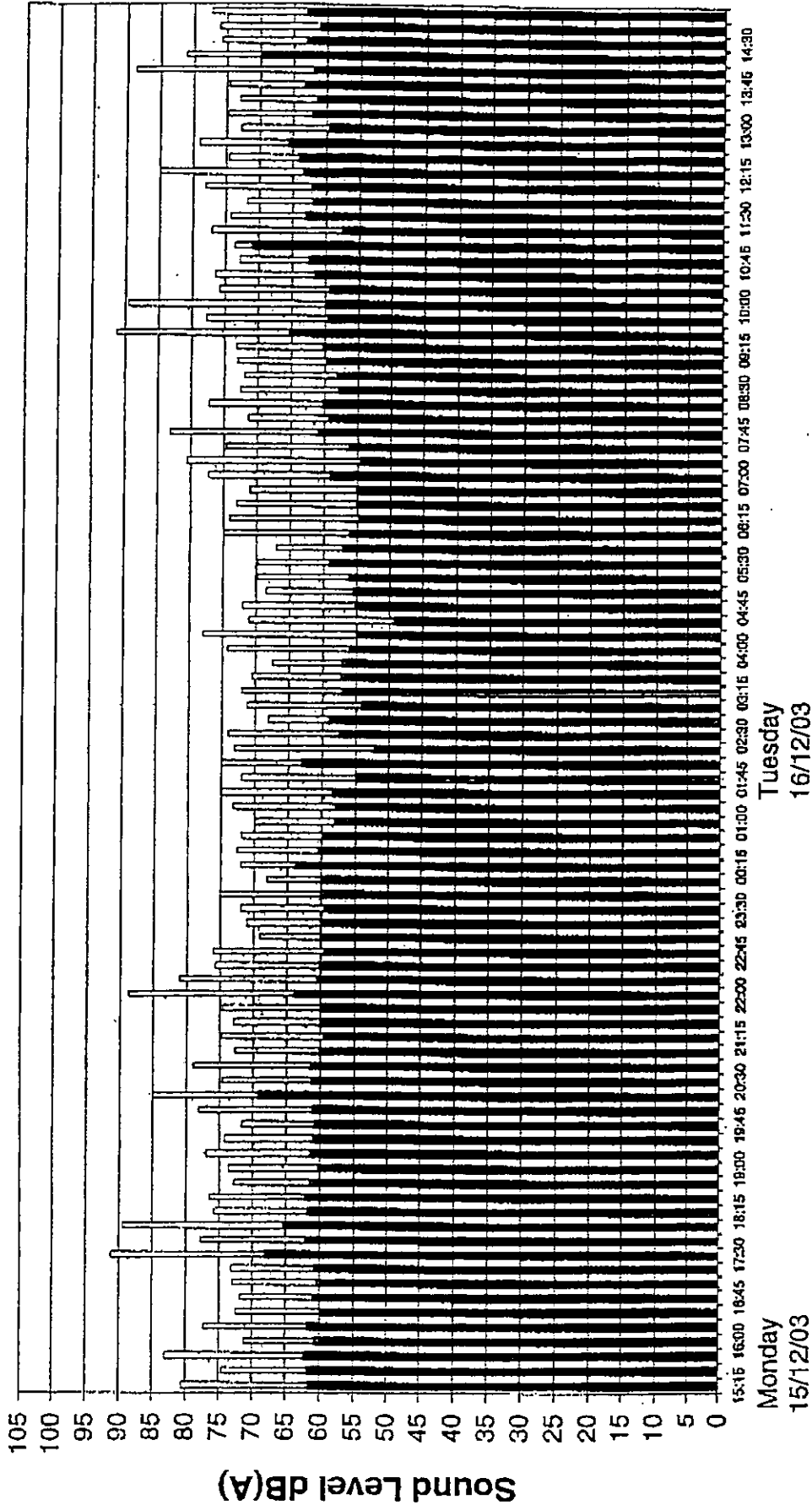
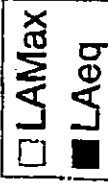


Date/Time-Hrs

11508/TH3

The Royal Marsden Hospital , Fulham
LAmx and LAeq Environmental Noise Levels
Position 2 Monday 15/12/03 to Tuesday 16/12/03

PP010139



Date/Time-Hrs

11508/TH4

Low Level Residential

Low Level Residential

Low Level Residential

Hospital Car
Park Area

PP000010

PP000020

Title
Site plan showing
Approximate Measurement
Positions

Project

Royal Marsden
Hospital
Fulham

Fulham Road (A309)

Drawing No.

11508/SP1

Date

27/01/2004

Scale

N.T.S.

Proposed location
of plant (roof level)

2
3

Royal Marsden Hospital
(North East Corner)

Proposed location
of plant
(lightwell level)

1
4



Hahn Tucker Associates
Consultants in Acoustics
Noise and Vibration Control

Duke House 1-2 Duke Street
Woking Surrey GU21 5BA
Telephone Woking (01483) 770866
Telex Woking (01483) 770875

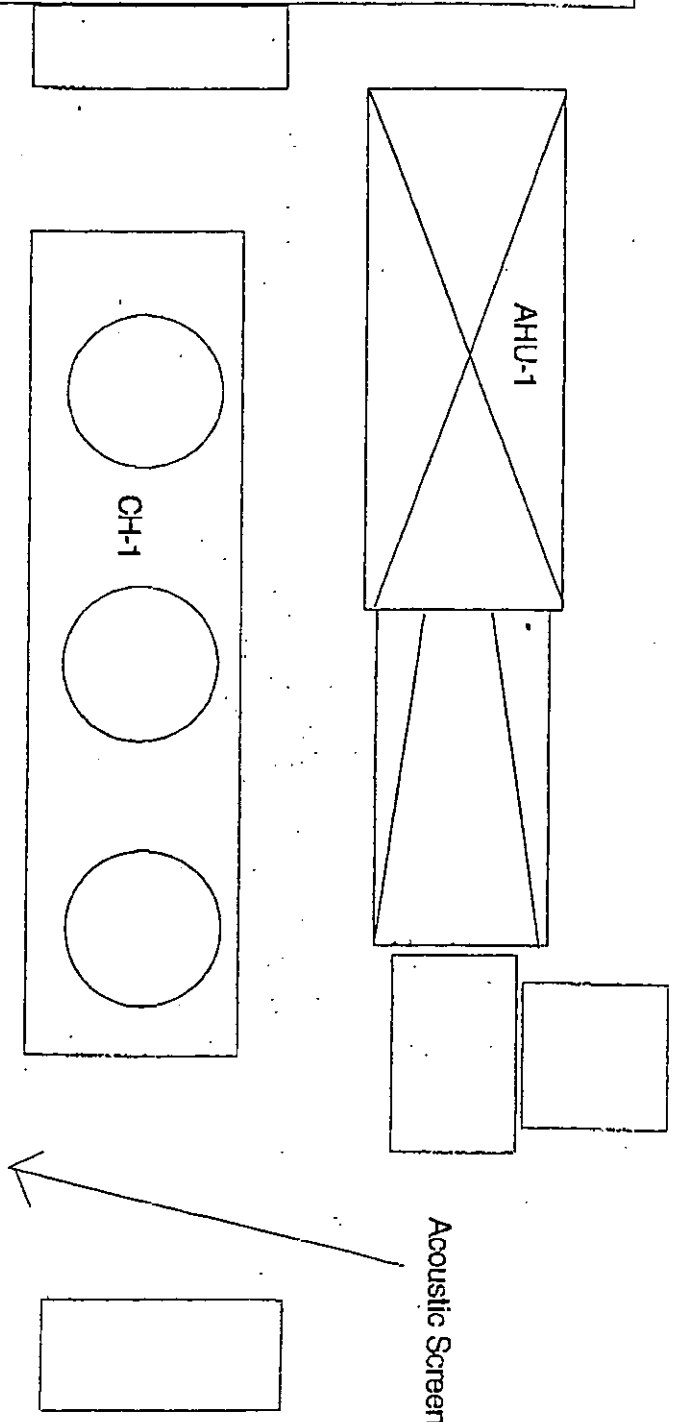
PP000030

Lift Machinery

AHU-1

CH-1

Acoustic Screen




Title
Site plan showing
Approximate location
of acoustic screen

Project
Royal Marsden
Hospital
Fulham

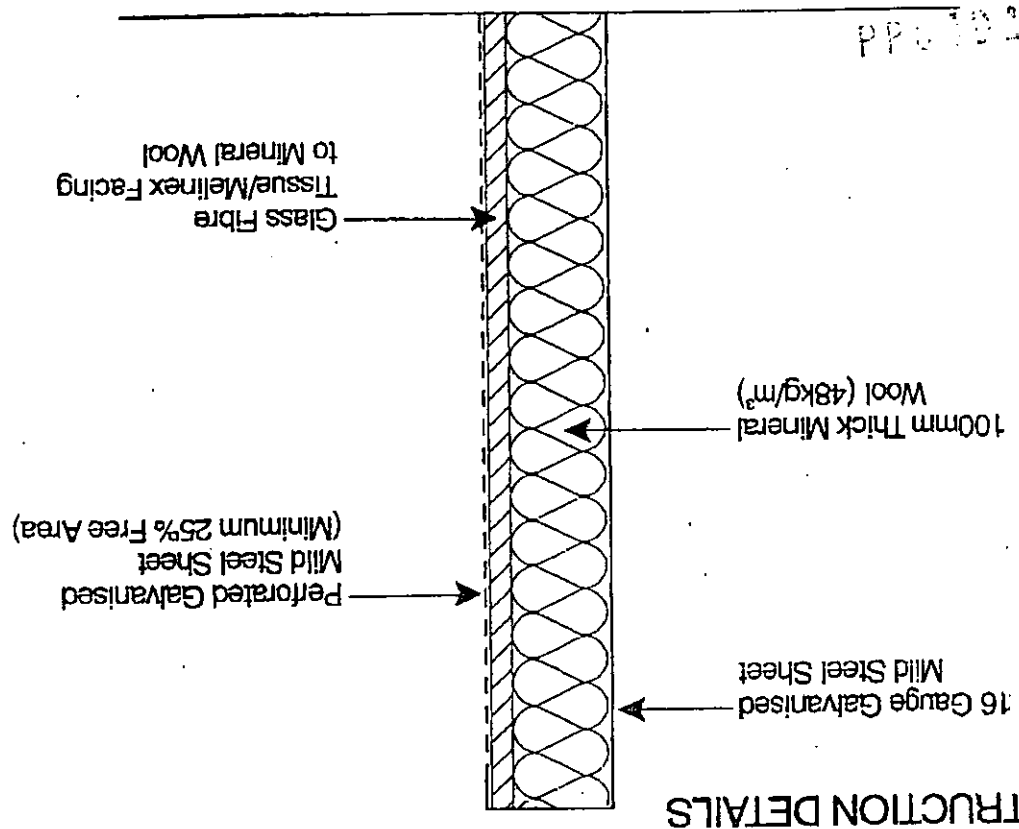
Drawing No.
11508/SP2
Date
28/01/2004
Scale
N.T.S.



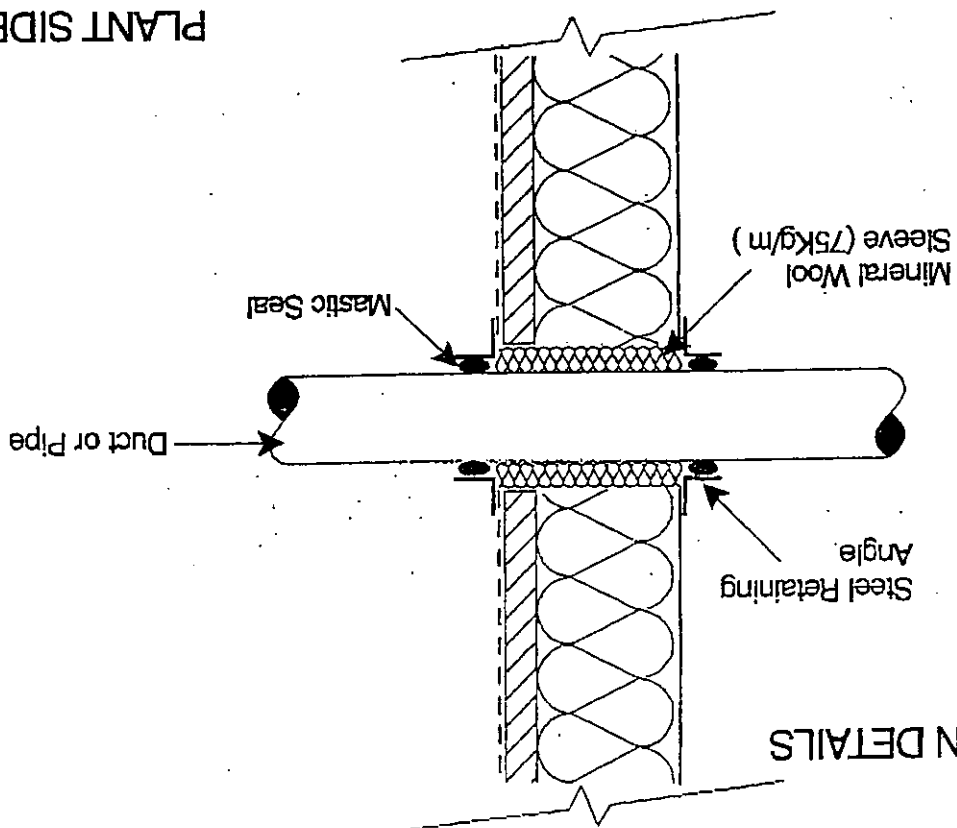
Hann Tucker Associates
Consultants in Acoustics
Noise and Vibration Control
Duke Road 1-2 Duke Street
Woking Surrey GU24 5BA
Telephone Woking (01483) 770395
Fax Woking (01483) 758765

Figure: 11508/SK1	Scale: N.T.S.	Project: Royal Marsden Hospital Fulham	Date: 28/01/04 Date Issued: 12 Dec 2004 Working Survey: 01/21 2004 Telephone: 01483 776856 Facsimile: 01483 776855	 Hann Tucker Associates Consultants in Acoustics Noise and Vibration Control
	Date: 28/01/04			

01508/SK1



PLANT SIDE



23 February 2004

PP015439

Planning and Conservation
 Third Floor Town Hall Hornton Street
 LONDON
 W8 7NX

Dear Sirs

THE ROYAL MARSDEN HOSPITAL, FULHAM ROAD
Rooftop plant

Further to our discussions in your office, we enclose drawings indicating the extent of the rooftop plant proposed at the above site as described in the enclosed issue sheets. This is replacing existing plant in the same location.

This includes; Four sets of drawings as described on room data sheets

Completed application form and certificate A

Acoustic report

Cheque for £110.00

The enclosed drawings and photographs demonstrate the existing and proposed plant is not visible from street level. In light of the surrounding residential area we can confirm that an acoustic survey has been undertaken and that the new plant will be designed within the parameters set by this survey (enclosed).

If there is any further information you require, please do not hesitate to call.

Yours faithfully,



N Fairham
 NSF/G0405/5.01

EX DIR	HCC	TP	AC	AD	CL	AO
P.R. K.C.	25 FEB 2004		PLANNING			
N	C	SW	EP	PP	DO	ES
LAND, PL, DES, ES						

Enc

Cc Mr C Randall
 Mr P Gunn

Royal Marsden Hospital
 CJ Design

Gibberd Limited

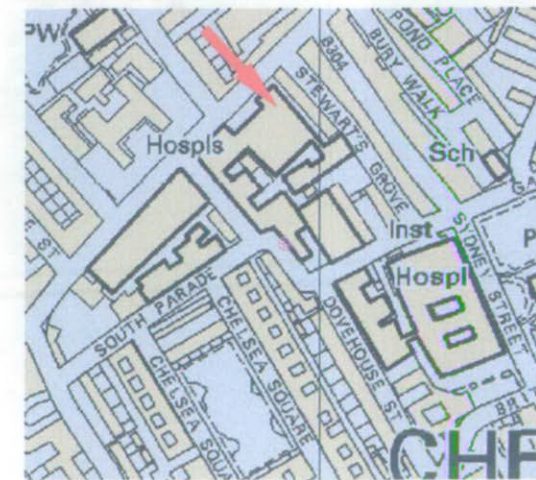
✉ 117-121 Curtain Road
 London EC2A 3AD
 ☎ +44 (0) 20 7739 3400
 📠 +44 (0) 20 7739 8948
 @ studio@gibberd.com
 🌐 www.gibberd.com

EX	INDC	TP	WA	AD	DIH	AO
DR						AK
M.R.		26 FEB 2004		PLANNING		
N.C.						
id	C	SW	SE	APP	REC	
		BY PLAN		DESIGN SHEETS		



View 04

View 04



GIBBERD
Royal Marsden Hospital
View of Existing Plant from Roof

EX DIR	HDC	TP	CAC	AD	CL	NO
R.B.	28 FEB 2004		PLANNING			
K.C.	N	C	SW	SE	NE	NO



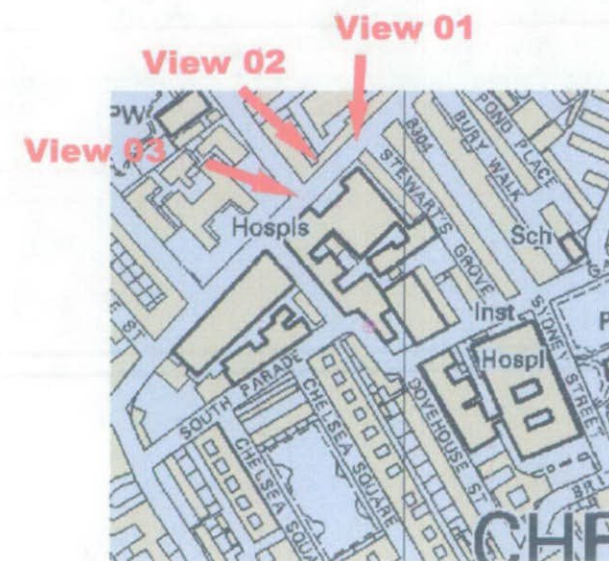
View 01



View 02



View 03



GIBBERD
 Royal Marsden Hospital
 View of Existing Plant from Street

PLA	TC	CD	AD	CLU	AO
					AK
28 FEB 2004 PLANNING					
M	C	SW	PLANNING	REC	

PP040489



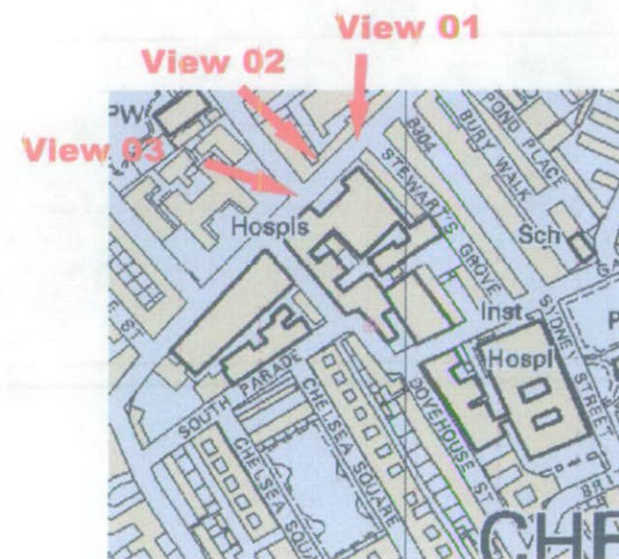
View 01



View 02



View 03



GIBBERD
 Royal Marsden Hospital
 View of Existing Plant from Street

HT: 11508/TC

PP040489
28 January 2004PP040489
PP040489
PP040489
ROYAL MARSDEN HOSPITAL, FULHAM**ACOUSTIC SPECIFICATION FOR****IMPERFORATE ACOUSTIC SCREEN**

The acoustic screen shall follow the design guidelines presented in site plan 11508/SP2. The screen shall extend to a height of at least 500mm above the top of the chiller unit.

The exact location and design of the screen shall be formally agreed with Hann Tucker Associates.

The screen shall be imperforate (i.e. no gaps) and acoustically sealed along the base and around any penetrations.

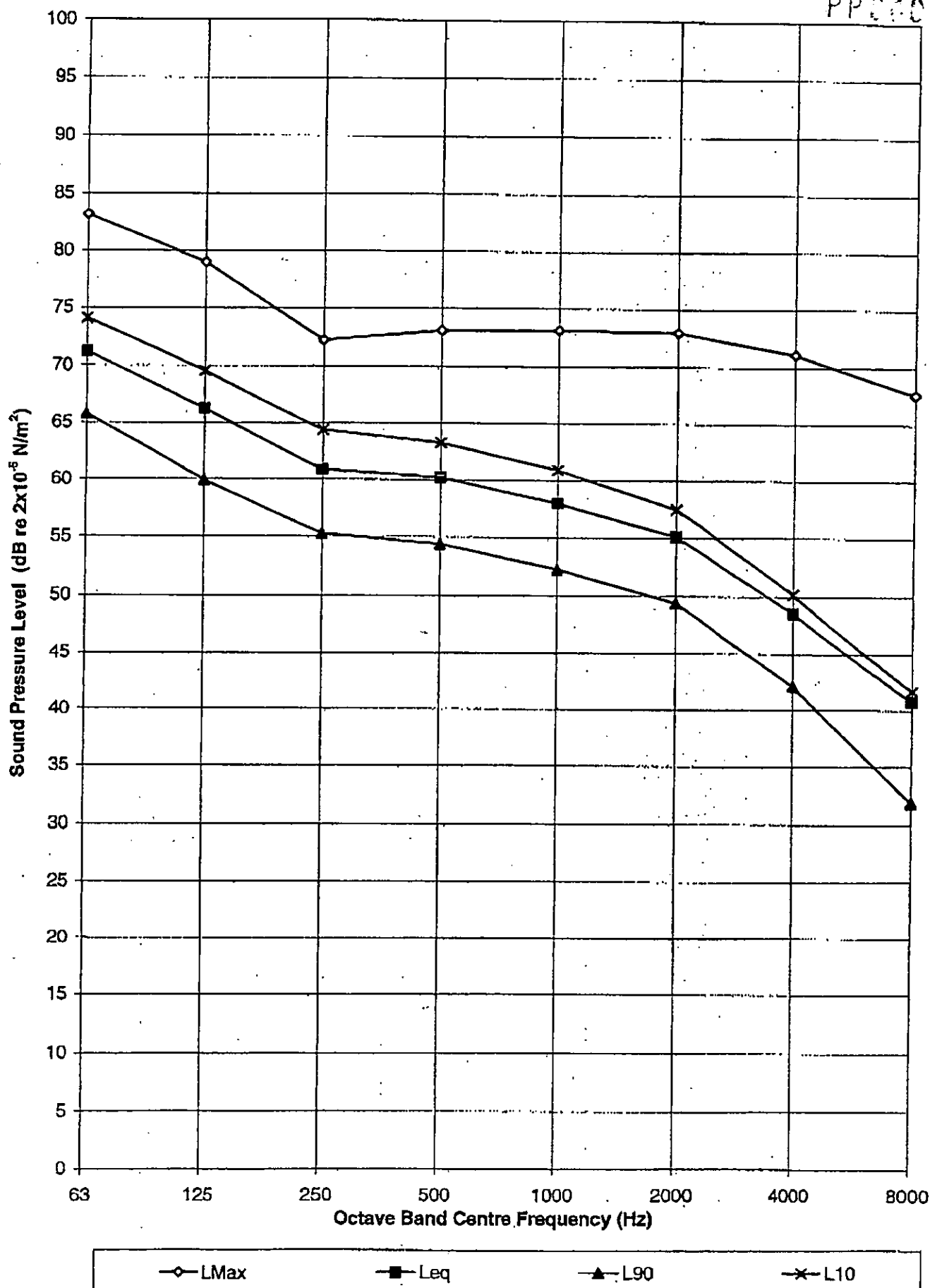
The screen shall comprise 100mm thick mineral wool packed to a density of not less than 48 kg/m³ with glass fibre tissue facing retained between 16 gauge galvanized mild steel sheet - perforated on the plant side with a free area of at least 25%. The screen shall have a minimum superficial mass of at least 27kg/m². The enclosed 11508/SK1 details typical construction of an acoustic screen.

The complete structure shall be inert, rot and vermin proof, and wind resistant to standards agreed with Client.

The acoustic media shall not comprise materials which are generally composed of mineral fibres, either man made or naturally occurring, which have a diameter of 3 microns or less and a length of 200 microns or less or which contain any fibres not sealed or otherwise stabilised to ensure fibre migration is prevented.

The Royal Marsden Hospital, Fulham
Octave Band Spectra
Position 3 16/12/03 14:00 - 14:15

PP040430



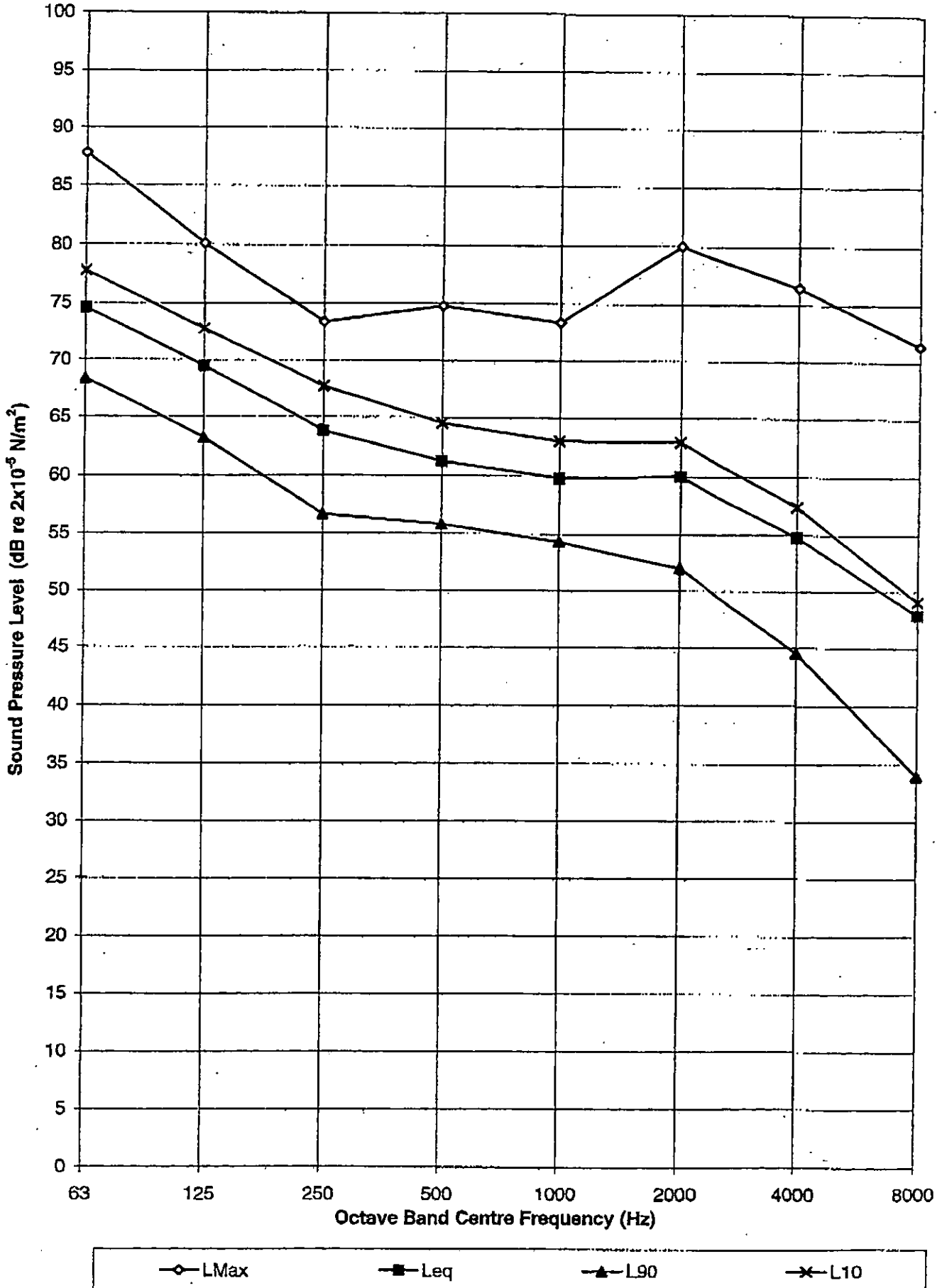
Graph 11508/G1

The Royal Marsden Hospital , Fulham

Octave Band Spectra

Position 4 16/12/03 14:30 - 14:45

PP010439

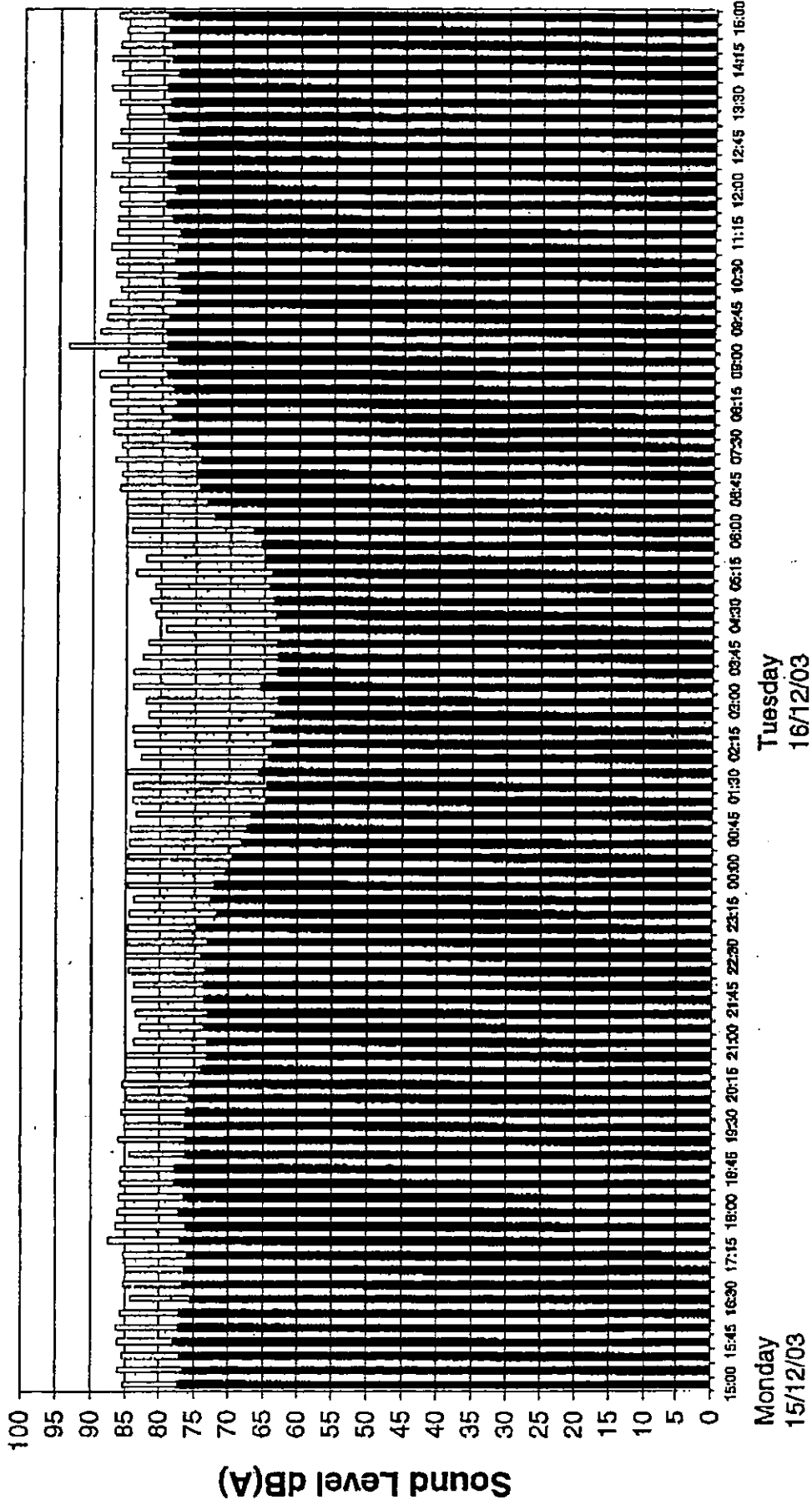


LA10
 LA90

PP640489

11508/TH1

The Royal Marsden Hospital, Fulham
LA10 and LA90 Environmental Noise Levels
Position 1 Monday 15/12/03 to Tuesday 16/12/03

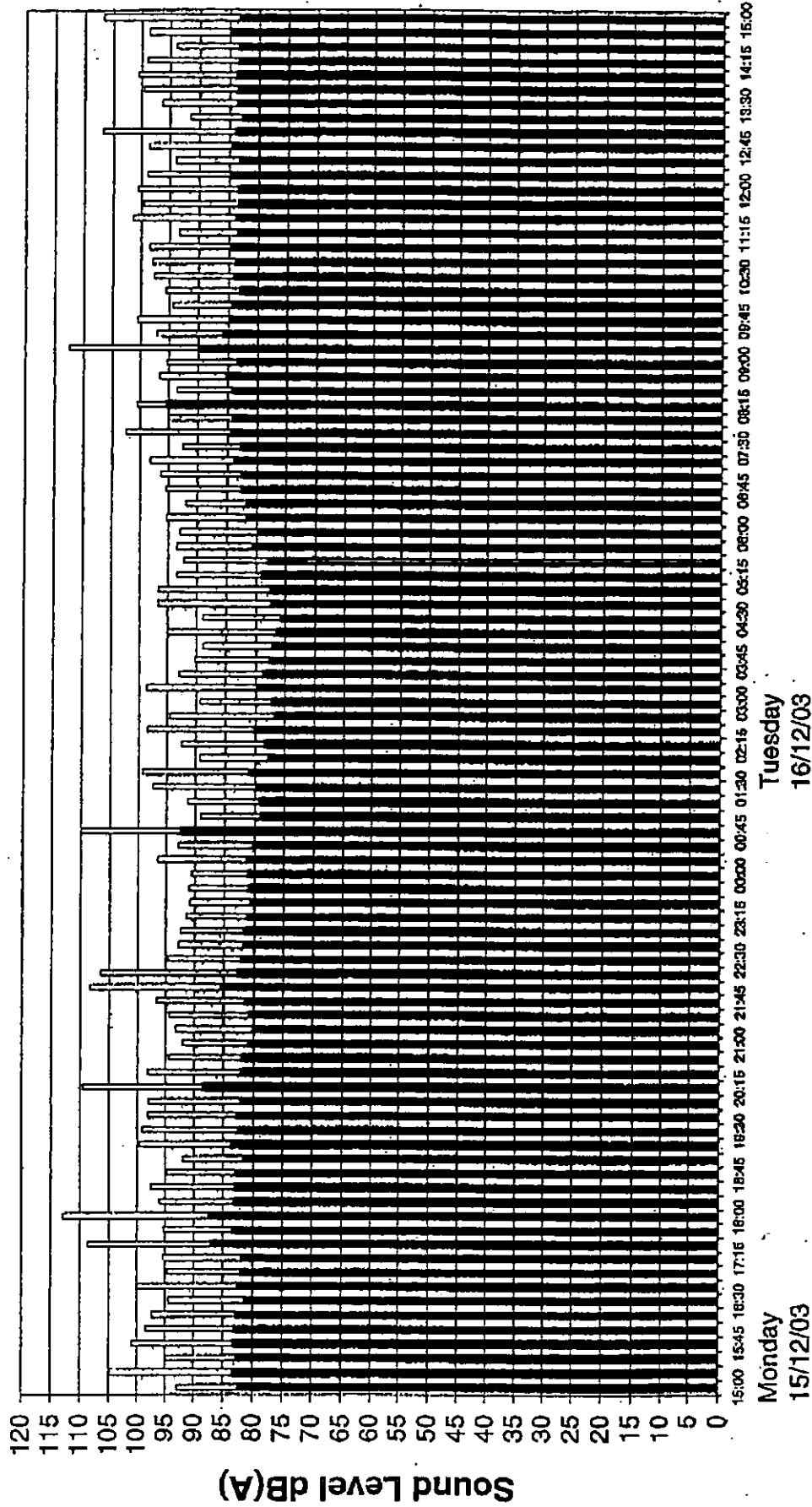


Tuesday
 16/12/03
 Date/Time-Hrs

Monday
 15/12/03

The Royal Marsden Hospital , Fulham
LAmx and LAeq Environmental Noise Levels
Position 1 Monday 15/12/03 to Tuesday 16/12/03

PP 01 02 13 39

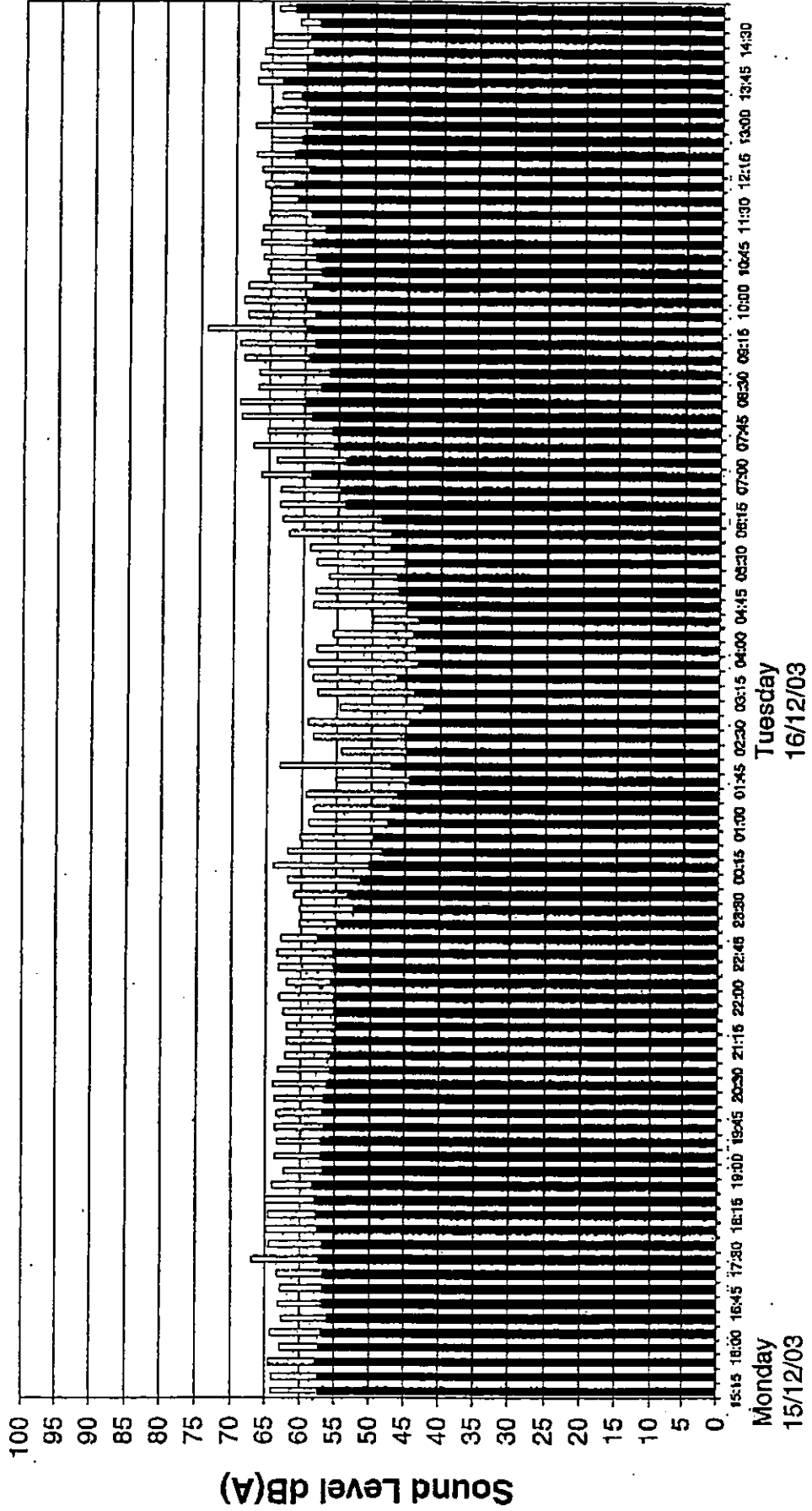


Date/Time-Hrs

The Royal Marsden Hospital, Fulham
LA10 and LA90 Environmental Noise Levels
Position 2 Monday 15/12/03 to Tuesday 16/12/03

□ LA10
 ■ LA90

PP040489

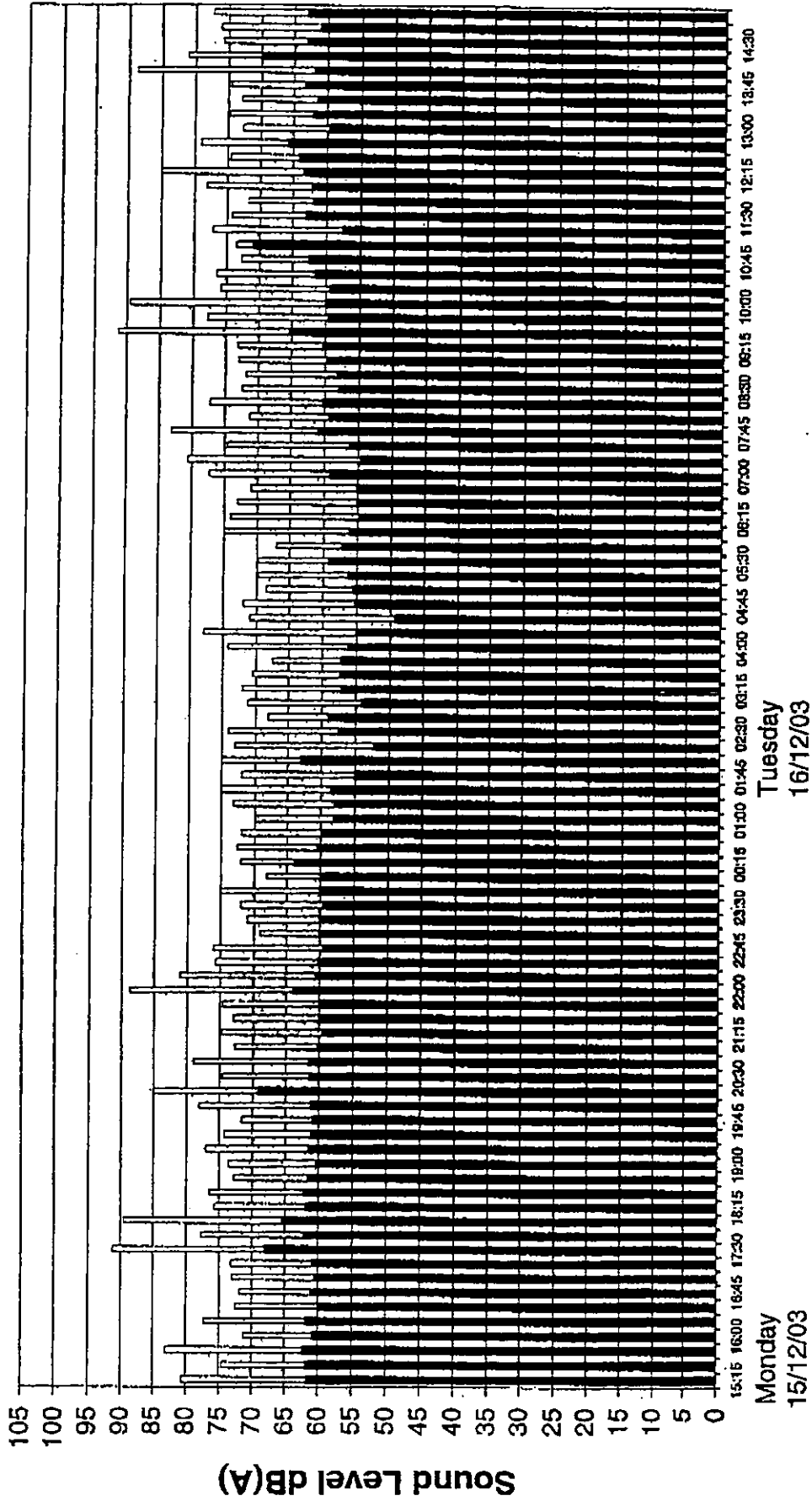


Date/Time-Hrs

The Royal Marsden Hospital , Fulham
LAmx and LAeq Environmental Noise Levels
Position 2 Monday 15/12/03 to Tuesday 16/12/03

PP010130

□ LAMax
 ■ LAeq



11508/TH4

Date/Time-Hrs

Low Level Residential

Low Level Residential

Low Level Residential

Hospital Car
Park Area

PROPOSED

PROPOSED

Proposed location
of plant (roof level)

2
3

Royal Marsden Hospital
(North East Corner)

Fulham Road (A308)

Proposed location
of plant
(lightwell level)

1
4

Title

Site plan showing
Approximate Measurement
Positions

Project

Royal Marsden
Hospital
Fulham

Drawing No.

11508/SP1

Date

27/01/2004

Scale

N.T.S.



Hann Tucker Associates
Consultants in Architecture
Noise and Vibration Control
Duke House 1-2 Duke Street
Woking Surrey GU21 8BA
Telephone Woking (01483) 770555
Facsimile Woking (01483) 725695

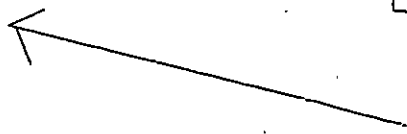
PP0000000

Lift Machinery

AHU-1

CH-1

Acoustic Screen



12

Title

Site plan showing
Approximate location
of acoustic screen

Project

Royal Marsden
Hospital
Fulham

Drawing No.

11508/SP2

Date

28/01/2004

Scale

N.T.S.



Hann Tucker Associates
Consultants in Acoustics
Noise and Vibration Control
Dillon House 1/2 Dillon Street
Woking Surrey GU24 5BA
Telephone Woking (01483) 770996
Facsimile Woking (01483) 728665

Hann Tucker Associates
 Consultants in Acoustics
 Noise and Vibration Control
 Data House 1-2 Dale Street
 Woking Surrey GU24 0SA
 Telephone Woking (01483) 770586
 Facsimile Woking (01483) 729555



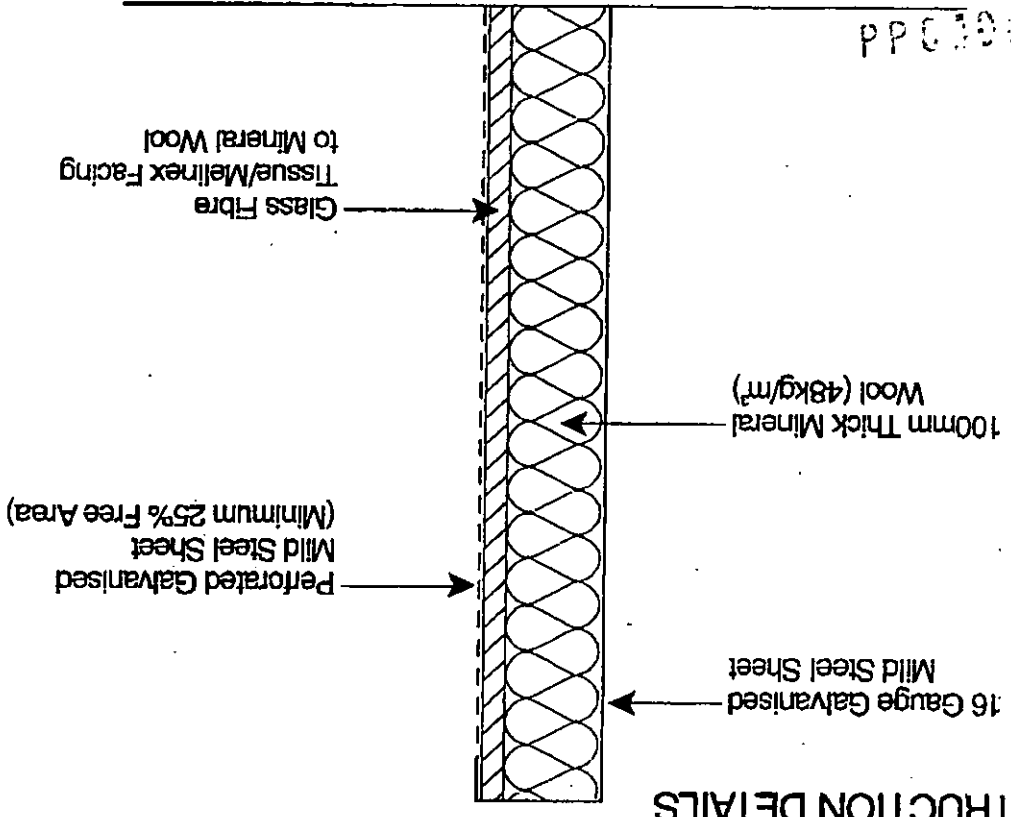
Project: Royal Marsden Hospital Fulham

Date: 28/01/04
 Scale: N.T.S.

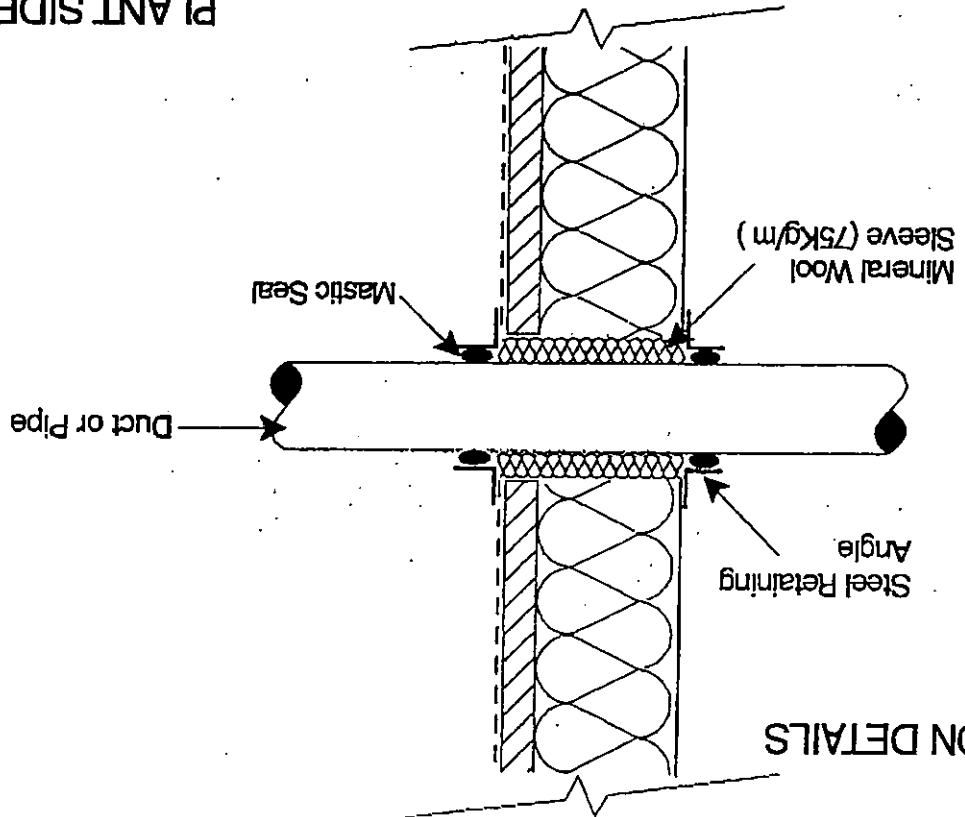
Figure: 11508/SK1

Typical Construction of Acoustic Screen

686663DD



PLANT SIDE



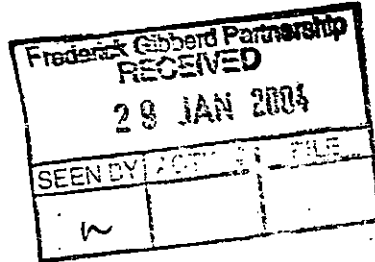


PP050489

Our Ref: HT: 11508/TC

28 January 2004

Howard Cox
CJ Design Partnership Ltd
The Chapel House
66 Bourne Road
Bexley
Kent
DA5 1LU



Hann Tucker Associates

Consultants In Acoustics
Noise and Vibration Control

Duke House 1-2 Duke Street
Woking Surrey GU21 5BA

(T) +44 (0)1483 770595
(F) +44 (0)1483 729565
(E) enquiries@hanntucker.co.uk
(W) www.hanntucker.co.uk

Directors:-
Stuart G Morgan CEng MIMechE MCIBSE FIOA
Simon R Hancock BEng(Hons) MIOA
John L Gibbs MIOA(D)

By post and facsimile on: 01322 555432

Dear Howard

RE: ROYAL MARSDEN HOSPITAL - FULHAM

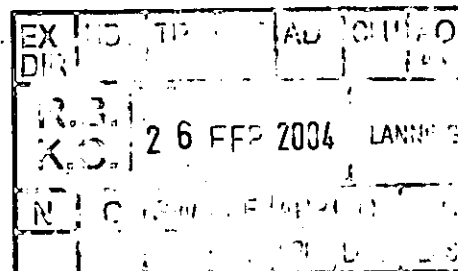
Following the receipt of the additional information as requested in our letter dated the 13th of January please find enclosed a bound copy of our Combined Environmental Noise Survey And Plant Noise Assessment Report 11508/CENS1 pertaining to the above project.

We trust you will find the enclosed to be in order, should you have any comments or queries please do not hesitate to contact us.

Yours sincerely
for HANN TUCKER ASSOCIATES

Teli Chinellis

cc Colin Randle - Marsden Hospital



PP020089

Royal Marsden Hospital Fulham

COMBINED ENVIRONMENTAL NOISE SURVEY AND PLANT NOISE ASSESSMENT REPORT 11508/CENS1

For :

CJ Design Partnership Ltd
The Chapel House
66 Bourne Road
Bexley
Kent
DA5 1LU

28 January 2003

HANN TUCKER ASSOCIATES

Consultants in Acoustics
Noise and Vibration

Duke House
1-2 Duke Street
WOKING
Surrey GU21 5BA

Tel : 01483 770595

Fax : 01483 729565

e-mail :- Enquiries@HannTucker.co.uk

EX	INDC/TP	1000/AD	
DIR			
R.D.			
K.C.	26 FEB 2004	PLANNING	
N	C		

(cb)

PP 010489

REPORT 11508/CENS1

CONTENTS	Page
1.0 INTRODUCTION.....	1
2.0 OBJECTIVES.....	1
3.0 SITE DESCRIPTION.....	1
4.0 ACOUSTIC TERMINOLOGY.....	2
5.0 METHODOLOGY.....	3
6.0 RESULTS.....	5
7.0 DISCUSSION OF NOISE CLIMATE.....	6
8.0 PLANT NOISE EMISSION CRITERIA.....	6
9.0 PLANT NOISE ASSESSMENT.....	7
10.0 INTERNAL NOISE ASSESSMENT.....	7
11.0 CONCLUSIONS.....	9

1.0 INTRODUCTION

New items of plant are proposed to be installed at The Royal Marsden Hospital in Fulham.

Roof plant will be subject to noise emission limits enforceable by the Local Authority in order to protect neighbouring noise sensitive premises.

Internal noise sensitive areas will be subject to external noise intrusion from the proposed plant situated inside the lightwell.

Hann Tucker Associates have therefore been commissioned to undertake a detailed environmental noise survey of the site. This report presents the results of the survey.

2.0 OBJECTIVES

To establish, by means of a detailed short daytime fully manned environmental noise monitoring, the existing A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} environmental noise levels at selected accessible roof and lightwell level positions around the proposed development site.

To establish, by means of detailed 24 hour daytime and night time fully automated environmental noise monitoring, the existing A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} environmental noise levels at selected roof and lightwell level positions around the proposed development site.

To measure L_{10} and L_{90} octave band spectra noise levels for typical daytime periods at each measurement position in order to obtain a more detailed description of the noise climate.

Based on the results of the noise survey, and in conjunction with the Local Authority, to recommend suitable plant noise emission criteria.

To carry out an acoustic assessment of the proposed plant items to determine whether they comply or not with the proposed noise emission criteria.

To carry out an acoustic assessment of the required sound reduction of the external building fabric overlooking the lightwell in order for suitable internal noise limits to be met.

3.0 SITE DESCRIPTION

The Royal Marsden Hospital overlooks Fulham Road which is part of the relatively busy A308. The new roof plant is proposed to be positioned at the North East side of the hospital and will replace the existing plant.

Residential premises lie at a lower ground level relative to the hospital, to the North East of the building such that the edge of the hospital building should provide a line of sight screening to the nearest residential premises.

The lightwell, where additional new items of plant are proposed to be located, is affected by noise via two paths; the high level roof opening and a second ground level opening.

4.0 ACOUSTIC TERMINOLOGY

PP040489

The acoustic terms used in our Report are as follows:

- dB** : Decibel - Used as a measurement of sound pressure level. It is the logarithmic ratio of the noise being assessed to a standard reference level.
- dB(A)** : The human ear is more susceptible to mid-frequency noise than the high and low frequencies. To take account of this when measuring noise, the 'A' weighting scale is used so that the measured noise corresponds roughly to the overall level of noise that is discerned by the average human. It is also possible to calculate the 'A' weighted noise level by applying certain corrections to an un-weighted spectrum. The measured or calculated 'A' weighted noise level is known as the dB(A) level.

Because of being a logarithmic scale noise levels in dB(A) do not have a linear relationship to each other. For similar noises, a change in noise level of 10dB(A) represents a doubling or halving of subjective loudness. A change of 3dB(A) is just perceptible.

- L_{10} & L_{90}** : If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The L_n indices are used for this purpose, and the term refers to the level exceeded for $n\%$ of the time, hence L_{10} is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L_{90} is the average minimum level and is often used to describe the background noise.

It is common practice to use the L_{10} index to describe traffic noise, as being a high average, it takes into account the increased annoyance that results from the non-steady nature of traffic noise.

- L_{eq}** : The concept of L_{eq} (equivalent continuous sound level) has up to recently been primarily used in assessing noise in industry but seems now to be finding use in defining many other types of noise, such as aircraft noise, environmental noise and construction noise.

L_{eq} is defined as a notional steady sound level which, over a stated period of time, would contain the same amount of acoustical energy as the actual, fluctuating sound measured over that period (e.g. 1 hour).

The use of digital technology in sound level meters now makes the measurement of L_{eq} very straightforward.

- L_{max}** : L_{max} is the maximum sound pressure level recorded over the period stated. L_{max} is sometimes used in assessing environmental noise where occasional loud noises occur, which may have little effect on the L_{eq} noise level.

5.0 METHODOLOGY

PP010189

5.1 Manned Survey

PP010139

5.1.1 Procedure

Fully manned environmental noise monitoring was undertaken from approximately 14:00 to 14:45 hours on Tuesday 16 December 2003.

During the survey period the wind conditions were calm and from approximately a North Westerly direction. The sky was generally clear. There was no rain during the survey. Road surfaces were dry throughout the survey period.

Measurements were taken of the A-weighted (dBA) L_{10} , L_{90} , L_{eq} and L_{max} sound pressure levels over periods of not less than 15 minutes in each hour. Atypical noises were excluded as far as reasonably possible. The noise levels measured are therefore assumed to be representative of the noise climate during the hour in which the measurements were taken.

In addition, at each position typical L_{10} , L_{90} , L_{eq} and L_{max} octave band spectra (from 63Hz to 8kHz) were taken in order to gain a more detailed description of the prevailing noise climate.

5.1.2 Measurement Positions

The noise level measurements were undertaken at 2 positions around the development site. The Positions Nos. 3 and 4 were selected in order to assess typical noise levels at the development site for subsequent use in setting plant noise emission criteria. The measurement positions are described below, and their approximate locations are indicated on the enclosed Site Plan 11508/SP1.

Position No	Description
3	Microphone positioned on a tripod at the edge of the building facing towards the residential premises to the North East.
4	Microphone positioned on a tripod and situated inside the lightwell at the level where the new plant are to be located.

PP050489

5.1.3 Instrumentation

The instrumentation used during the manned survey is presented in the Table below:

Description	Manufacturer	Type
Type 1 Precision Sound Level Meter	Brüel and Kjær	2260
Type 1½" Condenser Microphone	Brüel and Kjær	4189
Type 1 Calibrator	Brüel and Kjær	4231
Pistonphone	Brüel and Kjær	4220

The sound level meter was mounted on a tripod and was fitted with a Brüel and Kjær microphone windshield.

The sound level meter was calibrated prior to and on completion of the surveys. No significant changes were found to have occurred (no more than 0.1 dB).

5.2 Unmanned Survey

5.2.1 Procedure

Fully automated environmental noise monitoring was undertaken from approximately 15:00 hours on Monday 15 December 2003 to 15:00 hours on Tuesday 16 December 2003.

Due to the nature of the survey, i.e. unmanned, it is not possible to accurately comment on the weather conditions throughout the entire survey period. However at the beginning and end of the survey period the wind conditions were calm from approximately a North Westerly direction. The sky was generally clear. We understand that generally throughout the survey period the weather conditions were fair.

Measurements were taken continuously of the A-weighted (dBA) L_{10} , L_{50} , L_{50} and L_{max} sound pressure levels over 15 minute periods.

5.2.2 Measurement Positions

The noise level measurements were undertaken at 2 positions around the development site. The Positions Nos. 1 and 2 were selected in order to assess typical noise levels at the development site for subsequent use in setting plant noise emission criteria and for assessing noise break in to the hospital. The measurement positions are described below, and their approximate locations are indicated on the enclosed Site Plan 11508/SP1.

Position No	Description
1	Microphone attached to ladder inside the lightwell where the new plant is to be located.
2	Microphone positioned on the roof level perimeter fence overlooking the residential premises situated to the North East.

5.2.3 Instrumentation

The instrumentation used during the survey is presented in the Table below:

Description	Manufacturer	Type
Type 1 Data Logging Sound Level Meter	Larson Davis	820
Type 1½" Condenser Microphone	Larson Davis	
Type 1 Calibrator	Larson Davis	CAL200

Each sound level meter, including the extension cable, was calibrated prior to and on completion of the survey. No significant changes were found to have occurred (no more than 0.1 dB).

Each sound level meter was located in an environmental case with the microphone connected to the sound level meter via an extension cable. Each microphone was fitted with a Larson Davis windshield.

6.0 RESULTS

6.1 Results of Manned survey

Typical daytime octave band spectra for each measurement position are presented on Graphs 11508/G1 and 11508/G2 enclosed.

6.2 Results of Unmanned survey

The results have been plotted on Time History Graphs 11508/TH1 and 11508/TH2 enclosed presenting the hourly A-weighted (dBA) L_{10} , L_{50} , L_{eq} and L_{max} levels at each measurement position throughout the duration of the survey.

7.0 DISCUSSION OF NOISE CLIMATE

PP010000

7.1 Manned Survey

Throughout the duration of the short manned surveys the dominant noise source was noted to be mostly traffic noise from the nearby A308.

7.2 Unmanned Survey

Due to the nature of the survey, i.e. unmanned, it is not possible to accurately describe the dominant noise sources, or specific noise events throughout the entire survey period. However at the beginning and end of the survey period the dominant noise source was noted to be vehicular traffic.

8.0 PLANT NOISE EMISSION CRITERIA

We understand that the requirements of the Royal Borough of Kensington and Chelsea are as follows:

"Noise emitted by the external building services plant hereby permitted, shall not increase the existing lowest $L_{A90(10min)}$ background noise level at any time when the plant is operating. The noise emitted shall be measured or predicted at 1.0m from the façade of the nearest residential premises or at 1.2m above any adjacent residential garden, terrace, balcony or patio. The plant shall be serviced regularly in accordance with manufactures instructions and as necessary to ensure that the requirements of the condition are maintained."

Based on the above criteria, and the results of the environmental noise survey, we therefore propose the following future plant noise emission criteria to be achieved (with all relevant plant operating simultaneously) at 1 metre from the nearest noise sensitive facades based on the minimum measured L_{A90} noise level.

Position	Noise Emission Limit (dBA)			
	Daytime (07:00 – 18:00)	Evening (18:00 – 23:00)	Night Time (23:00 – 07:00)	24 Hrs
2	43	43	32	32

The criteria presented above may be increased by 5dBA for emergency plant such as standby generators. If plant contains tonal or impulsive characteristics the external design criteria should be reduced by 5dBA.

It should be noted that the above criteria are subject to final approval by the Royal Borough of Kensington and Chelsea.

9.0 PLANT NOISE ASSESSMENT

PP040409

We understand that the proposed new items of plant are as follows:

Plant	Location	Sound Power Level (dB) @ Octave Band Centre Frequency (Hz)								dBA
		63	125	250	500	1k	2k	4k	8k	
Chiller (LQ1065)	Roof Mounted	48	68	74	80	85	84	80	69	89
AHU 1	Roof Mounted	-	70	63	59	58	44	39	33	62
AHU 2	Lightwell	-	65	57	63	57	43	38	32	62

The chiller and AHU1 are to be located at roof level. We understand that the AHUs will be operated at 30% duty. However, for the purposes of our calculations we have assumed 100% duty since its noise contribution is significantly masked by other sources.

Drawing No 2348/ML/002 indicates the chiller and AHU1 to be approximately the same height

We have carried our calculations based on the above sound power levels for the chiller and AHU1. In our calculations we have subtracted losses for distance attenuation and screening attenuation (building's profile). The calculated total noise levels are as follows:

	AHU1	Chiller	Total
1m from nearest residential premise	11 dBA	42 dBA	42 dBA

With reference to the plant noise emission criteria in Section 8.0 above the chiller unit is acceptable for daytime and evening operation but not for the nighttime period. AHU1 however is acceptable for 24 hours operation.

We offer the following 3 options as possible remedial measures should the chiller be required to operate during the night time.

- OPTION 1:** Replace the chiller unit with a lower noise unit.
- OPTION 2:** Erect an acoustic barrier that will provide sufficient attenuation. Further guidance is included at the end of this report.
- OPTION 3:** Apply attenuation measures to existing chiller such as an acoustic enclosure and silencers on the fans.

10.0 INTERNAL NOISE ASSESSMENT

We understand that the room adjacent to the lightwell is to be utilized as a hospital ward or at any rate will be used for patient care. The external wall currently has windows in it. In order to ensure a reasonable internal noise level we have undertaken calculations to determine the required level of sound insulation for the window area.

Internal Noise Criteria

PP040233

There are no mandatory internal noise criteria for hospitals. Various reference documents present acoustic criteria for residential premises and these are likely to be suitable for hospital wards. The following presents a brief comparison of the various criteria for rooms within residential premises and details our suggested project criteria.

BS 8233: 1999 "Sound insulation and noise reduction for buildings"

British Standard 8233: 1999 "Sound insulation and noise reduction for buildings" recommends design criteria for internal ambient noise levels for dwellings providing a reasonable or good level of protection from external noise. It states that reasonable resting and sleeping conditions in living rooms and bedrooms can be achieved by the following target $L_{Aeq,T}$ internal noise levels:

Room Type	Design Range $L_{Aeq,T}$	
	Good	Reasonable
Living Rooms	30dB	40dB
Bedrooms	30dB	35dB

For night-time periods the document advises that maximum noise levels measured within the bedrooms should also not exceed 45dB L_{Amax} as a reasonable standard.

The BS 8233: 1999 Sound Insulation and Noise Reduction for Buildings also states:

"In gardens and balconies it is desirable that the steady noise level does not exceed 50 $L_{Aeq,T}$ dB and 55 $L_{Aeq,T}$ should be disregarded as the upper limit."

World Health Organisation (WHO) – Guidelines for Community Noise 1999

This document is the basis for many of the acoustic criterion adopted by various groups. The guidelines are generally concerned with avoiding negative effects on sleep disturbance. As a result the following levels are suggested:

Night-time - 30dB $L_{Aeq,8hr}$
- 45dB L_{Amax}

The document also states "For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45dBA L_{Amax} more than 10-15 times per night, (Vallet & Vernet 1991)". In addition, the guidelines suggest, in order to maintain speech intelligibility and moderate annoyance, internal daytime and evening $L_{Aeq,16hr}$ levels should be below 35dB.

The WHO document also states:-

"To protect the majority of people from being seriously annoyed during the daytime, the outdoor sound level from steady, continuous noise should not exceed 55dB L_{Aeq} on balconies, terraces and in outdoor living areas. To protect the majority of people from being moderately annoyed during the daytime, the outdoor sound level should not exceed 50dB L_{Aeq} . Where it is practical and feasible, the lower outdoor sound level should be considered the maximum desirable sound level for new development."

PP030489

Proposed Internal Noise Criteria

Based on the above, our proposed internal acoustic design criteria and that used in our calculations is summarised in the table below.

Period	Room Usage	Criterion
Daytime (07:00 – 23:00 hours)	Bedrooms	35dB L _{Aeq,16hr}
	Other Living Areas	40dB L _{Aeq,16hr}
	Non-Habitable Rooms	45dB L _{Aeq,16hr}
	Outdoor Amenity Space	50 to 55dB L _{Aeq,16hr}
Night Time (23:00 – 07:00 hours)	Bedrooms	30dB L _{Aeq,8hr}
	Other Living Areas	45dB L _{Amax}
	Non-Habitable Rooms	35dB L _{Aeq,8hr} 40dB L _{Aeq,8hr}

The above criteria have been proposed in order to provide a high level of comfort within the hospital ward whilst maintaining a suitable degree of cost effectiveness with regard to external building fabric

External building fabric specification

We have carried out detailed calculations based on the noise levels measured in the lightwell and the noise emissions from AHU2. Our assessment concludes that in order for the internal noise criteria identified in the previous section to be achieved, the external wall should achieve the following sound reduction indices.

Sound Reduction Index (R)(dB)				
⊗ Octave Band Centre Frequency (Hz)				
125	250	500	1k	2k
28	32	43	46	48

The above sound reduction performances would be typically be achieved by employing one of the following options:

1. Install secondary glazing to the existing window
2. Block up the existing window with 2 layers of plasterboard and 50mm mineral wool in the cavity between the existing glazing and the internal plasterboard.
3. Block up the existing window with blockwork.

For options 1 and 2 also ensure the existing window is adequately sealed.

11.0 CONCLUSIONS

A short daytime fully manned environmental noise survey has been undertaken in order to establish the currently prevailing environmental noise levels around the proposed development site at roof level and within the lightwell.

A detailed 24 hour daytime and night time fully automated environmental noise survey has been undertaken in order to establish the currently prevailing environmental noise climate around the proposed development site at roof level and in the lightwell.

Plant noise emission criteria have been recommended based on the results of the noise surveys and in conjunction with the Local Authority.

PP010430

An assessment of the plant noise emissions has been undertaken in accordance with the requirements of the Local Authority.

Possible remedial measures have been offered for consideration for attenuating noise due to the chiller if required for night time use.

Possible options for improving the sound reduction performance of the wall between the lightwell and new patient areas have been presented.



Teli Chinelis
HANN TUCKER ASSOCIATES

INFORMATION REQUEST FORM

Planning Services to Environmental Health

TO: Paul Morse - Director of Environmental Health

Address/Issue
 Royal Marsden Hospital
 201/211 Fulham Road, SW3

Planning Reference No.: PP/04/489

Planning Case Officer: K. Redfern

Summary of Proposal:
Policy Issue/Subject of Advice
 (key Features)(Uses,Scale etc.)(Main Issues/Problems).

Replacement of existing rooftop plant and provision of additional chiller

Schedule of Attachments:	Schedule of Key Dates:
Specifications <input checked="" type="checkbox"/>	1. Case initiated/Application received: 27 02 04
Drawings <input checked="" type="checkbox"/>	4. Information required by: 29 03 04
Supporting Info. <input checked="" type="checkbox"/>	2. Sent by Planning Services: 19 03 04
Draft Text etc. <input type="checkbox"/>	5. Returned by Environmental Health: <input type="checkbox"/>
	3. Entered on EHIS: <input type="checkbox"/>

Purpose/Status of Request:

<input checked="" type="checkbox"/> Planning Application	<input type="checkbox"/> Planning Appeal	<input type="checkbox"/> Planning Brief
<input type="checkbox"/> Planning Issues paper	<input type="checkbox"/> Planning Guidance	<input type="checkbox"/> UDP Consultation
<input type="checkbox"/> Impact Assessment	<input type="checkbox"/> General Advice	<input type="checkbox"/> Other

Nature of Request in brief:
 Assessment of noise impact.

Previous Planning History:

Need for telephone discussion of background

Essentials of relevant UDP or other Policy:

Need for telephone discussion of background

Specific Issues for Environmental Health Comment

<input type="checkbox"/> Food	<input type="checkbox"/> Health and Safety	<input type="checkbox"/> HMO's	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Noise and Nuisance	<input type="checkbox"/> Contaminated Land	<input type="checkbox"/> Air Quality	

E.H. Response: (Continue on reverse if necessary) **EHIS Reference No.:** 804416/04

Response to Planning 14/4/2004

E.H. Case officer(s) and telephone number(s): K. Whaffey x5702

Memorandum

DATE: April 14, 2004

TO: Director of Planning,
fao Kathryn Redfern

FROM: Director of Environmental Health
Keith Mehaffy -extension 5702

RE: Royal Marsden Hospital 201-211 Fulham Road London SW3 planning reference pp/04/489

I am in receipt of the above application, regarding the replacement of the existing roof top plant and installation of an additional air-conditioning condenser chiller unit to the north east front flat roof of the property. I have now had the opportunity of assessing the plans and visiting site and I would like to make the following observations

The plant will be located at roof level and on the eastern side and will be screened from the nearest residential dwellings by an upper floor at the hospital. It is proposed that the elevation fronting Fulham Road will have an acoustic screen to absorb the sounds generated its operation. I would consider that the plant is located closer to the hospital wards than neighbouring residential dwellings, in these circumstances it would be advantageous to ensure that the plant is correctly attenuated so as not to create disturbance to the patients.

If you are minded to grant this application I would suggest that a condition should be attached requiring that the units be attenuated such that the lowest background sound level generated during their operation should not be exceeded, within the nearest noise sensitive property.

I hope that this information is useful, please do not hesitate to contact me on the above telephone number should you wish to discuss this matter further.



Mr K Mehaffy
Area Senior Environmental Health Officer
Noise and Nuisance Team.

19 Nov

objection AO Ach → KR

Alison & Nicholas Taggart
1, STEWART'S GROVE, CHELSEA, LONDON. SW3 6PD.
(020) 7351-0403
e-mail: miamax1sg@btinternet.com

M.J. French Esq.
The Planning and Conservation Department,
The Royal Borough of Kensington and Chelsea,
Town Hall,
Hornton Street,
LONDON. W8 7NX

EX DIR	HDC	TP	CAC	AD	CLU	PLANNING
R.B.	K.C.	17 MAR 2004			PLANNING	
N	C	SW	SE	APP	IO	REC
				ARB	FPL	14th March 2004

✓ (5)

Dear Mr. French,

Your Reference: PS/DCSW/PP/04/00489/KR
New Air-Handling Installation at the Marsden Hospital

Thank you for your recent letter concerning the proposed installation of additional air-handling equipment at the Marsden Hospital.

Background noise levels from the Hospital have been noticeably increasing of late. We are very concerned that this proposal may raise these levels yet further.

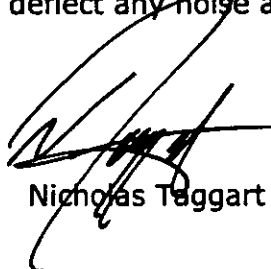
So far as we are aware, all bar one of the Stewart's Grove houses have bedrooms at the rear, immediately adjoining the Hospital. Many of the taller houses in Sydney Street that back on to Stewart's Grove also have bedrooms to the rear, which will be even more exposed to noise from roof-mounted air-handling equipment.

Having lived on the Grove for nearly ten years, we are still struck by how quiet the location is, for central London. There is very little traffic noise, particularly at night, and traffic movements along the Grove at night are very few indeed. In these circumstances, even a small increase in ambient night-time noise would significantly reduce the amenity enjoyed by the residents of Stewart's Grove, and (we suspect) the north-western part of Sydney Street.

We would thus ask whether it would be possible to move the proposed installation further westward, deeper into the Hospital site and thus further away from residential neighbours, or to ask that the Hospital be required to additional efforts to reduce the noise it generates and to deflect any noise away from its residential neighbours.

Yours, sincerely,


Alison J. Taggart


Nicholas Taggart

19/03/04

obj AO Ach → KR

- 2, Stewart's Grove,
LONDON SW3 6PD

M.J. French Esq.
The Planning and Conservation Department,
The Royal Borough of Kensington and Chelsea,
Town Hall,
Hornton Street,
LONDON W8 7NX

6th March 04

Your ref: **PS/DCSW/PP/04/00489/KR**

Dear Mr French,

Re: Royal Marsden Hospital - Additional Chiller Plant

Thank you for your recent letter following which I have inspected the plans for this proposed development and I have sought to understand the sound engineer's report that accompanied the application.

I am a supporter of the Hospital and would like to be able to back the proposal but I am becoming very concerned that background noise levels from the Hospital have been creeping up and that this proposal may raise the levels further.

I would point out that the houses in Stewart's Grove all have bedrooms at the back of the properties and furthermore so do the taller houses in Sydney Street that back on to Stewart's Grove (Have they be informed of this planning application?). There are thus many people who are affected by noise levels from the Hospital air-handling equipment.

Also, I am concerned that the engineer's reference to traffic noise levels might imply that it does not matter if there is some extra background noise. The opposite is true. Firstly, the nature of the noise given off by air-handling equipment is obviously different than the traffic noise and secondly the traffic noise is not persistent and in fact, as far as I am aware, there is usually very little traffic through the night.

I would thus ask whether it would be possible to move the chiller and air handling unit to a location further westward in the Hospital site and thus further away from residential neighbours. //

If this is not possible I think that the Hospital should be asked to take additional efforts to not only reduce noise levels but also deflect any noise away from its residential neighbours.

Yours sincerely,

Elizabeth Ewing
Elizabeth Ewing

EX DIR	HDC	TP	CAC	AD	CLU	AO AK
R.B.	16 MAR 2004				PLANNING	
K.C.						
N	C	SW	SE	APP	IO	REC
			ARB	FPLN	DES	FEEES



NOTICE OF A PLANNING APPLICATION

TOWN AND COUNTRY PLANNING ACT 1990
PLANNING (LISTED BUILDINGS AND CONSERVATION AREAS) ACT 1990

Notice is hereby given the Royal Borough of Kensington and Chelsea Council an application:

(a) for development of land in or adjacent to a Conservation Area.

Details are set out below.

Members of the public may inspect copies of the application, the plans and other documents submitted with it at:

The Planning Information Office, 3rd floor, The Town Hall, Hornton Street, W8 7NX between the hours of 9.15 and 4.45 Mondays to Thursdays and 9.15 to 4.30 Fridays;

For applications in the Chelsea area: The Reference Library, Chelsea Old-Town Hall, Tel. 020-7361-4158.

For postal areas W10, W11 and W2: The 1st floor, North Kensington Library, 108 Ladbroke Grove, W11, Tel. 020-7727-6583.

Anyone who wishes to make representations about this application should write to the Executive Director of Planning and Conservation at the Town Hall (Dept. 705) within 21 days of the date of this notice.

SCHEDULE

Reference: PP/04/00489/KR

Date: 05/03/2004

Royal Marsden Hospital, 201/211 Fulham Road, London, SW3 6JJ

Replacement of existing rooftop plant and provision of additional chiller.

APPLICANT C. Randall,

Development Control Progress Sheet

Application Number.....

Date File Received by Officer.....

Date of Site Visit.....
(Please fill in the Site Visit Box on Acolaid)

Consultation Period Expiry.....

Date Report Passed to Team Leader.....

PLANNING AND CONSERVATION

THE TOWN HALL HORNTON STREET LONDON W8 7NX

Executive Director M J FRENCH FRICS Dip TP MRTPI Cert TS

THE ROYAL
BOROUGH OF



KENSINGTON
AND CHELSEA

FILE COPY

1

Switchboard: 020-7937-5464

Extension: 2079/ 2080

Direct Line: 020-7361- 2079/ 2080

Facsimile: 020-7361-3463

Date: 02 March 2004

My reference: Your reference:
My Ref: PS/DCSW/PP/04/00489/KR

Please ask for:
Planning Information Office

Dear Sir/Madam,

TOWN AND COUNTRY PLANNING ACT 1990

Proposed development at: Royal Marsden Hospital, 201/211 Fulham Road, London, SW3 6JJ

Brief details of the proposed development are set out below. Members of the public may inspect copies of the application, the plans and any other documents submitted with it. The Council's Planning Services Committee, in considering the proposal, welcomes comments either for or against the scheme. Anyone who wishes to make representations about the application should write to the Council at the above address **within 21 days** of the date of this letter. Please telephone should you require further information.

Proposal for which permission is sought Replacement of existing rooftop plant and provision of additional chiller.

Applicant C. Randall, Royal Marsden Hospital, NHS Trust, Fulham Road, London, SW3 6JJ

Yours faithfully

M. J. FRENCH
Executive Director, Planning and Conservation

WHAT MATTERS CAN BE TAKEN INTO ACCOUNT

When dealing with a planning application the Council has to consider the policies of the Borough Plan, known as the Unitary Development Plan, and any other material considerations. The most common of these include (not necessarily in order of importance):

- The scale and appearance of the proposal and impact upon the surrounding area or adjoining neighbours;
- Effect upon the character or appearance of a Conservation Area;
- Effect upon the special historic interest of a Listed Building, or its setting;
- Effect upon traffic, access, and parking;
- Amenity issues such as loss of Sunlight or daylight, Overlooking and loss of privacy, Noise and disturbance resulting from a use, Hours of operation.

WHAT MATTERS CANNOT BE TAKEN INTO ACCOUNT

Often people may wish to object on grounds that, unfortunately, cannot be taken into account because they are not controlled by Planning Legislation. These include (again not in any order of importance):

- Loss of property value;
- Private issues between neighbours such as land covenants, party walls, land and boundary disputes, damage to property;
- Problems associated with construction such as noise, dust, or vehicles (If you experience these problems Environmental Services have some control and you should contact them direct);
- Smells (Also covered by Environmental Services);
- Competition between firms;
- Structural and fire precaution concerns; (These are Building Control matters).

WHAT HAPPENS TO YOUR LETTER

All letters of objection are taken into account when an application is considered. Revised drawings may be received during the consideration of the case and normally you will be informed and given 14 days for further response. Generally planning applications where 3 or more objections have been received are presented to the Planning Services Committee which is made up of elected Ward Councillors. Planning Officers write a report to the Committee with a recommendation as to whether the application should be granted or refused. Letters received are summarised in the report, and copies can be seen by Councillors and members of the public, including the applicant. The Councillors make the decisions and are not bound by the Planning Officer's recommendation. All meetings of the Committee are open to the public.

If you would like further information, about the application itself or when it is likely to be decided, please contact the Planning Department on the telephone number overleaf.

WHERE TO SEE THE PLANS

Details of the application can be seen at the Planning Information Office, 3rd floor, Town Hall, Hornton Street W.8. It is open from 9am to 4.45pm Mondays to Thursdays (4pm Fridays). A Planning Officer will always be there to assist you.

In addition, copies of applications in the Chelsea Area (SW1, SW3, SW10) can be seen at The Reference Library, Chelsea Old Town Hall, Kings Road SW3 (020 7361 4158), for the Central Area (W8, W14, SW5, SW7) can be viewed in the Central Library, Town Hall, Hornton Street, W.8. and applications for districts W10, W11 and W2 in the North of the Borough can be seen at The Information Centre, North Kensington Library, 108 Ladbroke Grove, London W11 (under the Westway near Ladbroke Grove Station 020 7727-6583). Please telephone to check the opening times of these offices.

If you are a registered disabled person, it may be possible for an Officer to come to your home with the plans. Please contact the Planning Department and ask to speak to the Case Officer for the application.

PLEASE QUOTE THE APPLICATION REFERENCE NUMBER ON YOUR REPLY

MEMORANDUM

TO: FOR FILE USE ONLY

**From: EXECUTIVE DIRECTOR
PLANNING & CONSERVATION**

My Ref: PP/04/00489/KR CODE A1

Room No: NEWSPAPER DATE: 05/03/2004

Date: 01 March 2004

DEVELOPMENT AT:

Royal Marsden Hospital, 201/211 Fulham Road, London, SW3 6JJ

DEVELOPMENT:

Replacement of existing rooftop plant and provision of additional chiller.

The above development is to be advertised under:-

1. Section 73 of the Planning (Listed Buildings and Conservation Areas) Act 1990 (development affecting the character or appearance of a Conservation Area or adjoining Conservation Area)

M.J. French

Executive Director, Planning & Conservation

Drawing Issue Sheet


(PA) PLANNING 040439

Project Royal Marsden Hospital- Critical Care Unit
Project No G0405/02

Sheet 1

Dwg no	Drawing Title	Scale	Revision
01	SITE LOCATION & EXISTING ROOF	1:100	-
02	EXISTING SECTIONS A & B	1:100	-
03	EXISTING SECTIONS C & D	1:100	-
04	PROPOSED ROOF PLAN	1:100	-
05	PROPOSED SECTIONS A & B	1:100	-
06	PROPOSED SECTIONS C & D	1:100	-
	VIEW OF EXISTING PLANT FROM STREET	NTS	-
	VIEW OF EXISTING PLANT FROM ROOF	NTS	-

Legend	Distribution	Date	14.01.04
Preliminary	P C Randall RMH		1
Information	I P Gunn CJD		1
Request	R R Herrmann RHA		1
Approval	A L Jones WTP		1
Billing	B S Cook WTC		1
Tender	T Planning Department		4
Construction	C		
Hard Copy	H		
Email Copy	E		

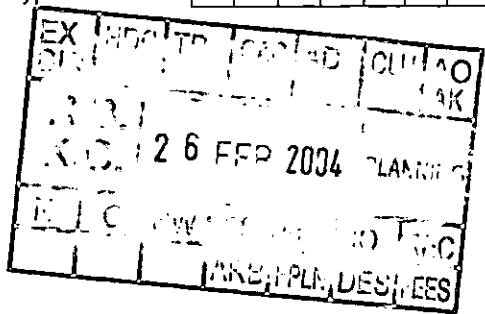

Signature

Purpose of Issue

P											
---	--	--	--	--	--	--	--	--	--	--	--

Media Type

H											
---	--	--	--	--	--	--	--	--	--	--	--



117-121 Curtain Road
London EC2A 3AD
+(44) 20 7739 3400
+(44) 20 7739 8948
studio@gibberd.com
www.gibberd.com

23 February 2004

PP040139

Planning and Conservation
Third Floor Town Hall Horton Street
LONDON
W8 7NX

Dear Sirs

**THE ROYAL MARSDEN HOSPITAL, FULHAM ROAD
Rooftop plant**

Further to our discussions in your office, we enclose drawings indicating the extent of the rooftop plant proposed at the above site as described in the enclosed issue sheets. This is replacing existing plant in the same location.

- This includes;
- Four sets of drawings as described on room data sheets
 - Completed application form and certificate A
 - Acoustic report
 - Cheque for £110.00

The enclosed drawings and photographs demonstrate the existing and proposed plant is not visible from street level. In light of the surrounding residential area we can confirm that an acoustic survey has been undertaken and that the new plant will be designed within the parameters set by this survey (enclosed).

If there is any further information you require, please do not hesitate to call.

Yours faithfully,



N Fairham
NSF/G0405/5.01

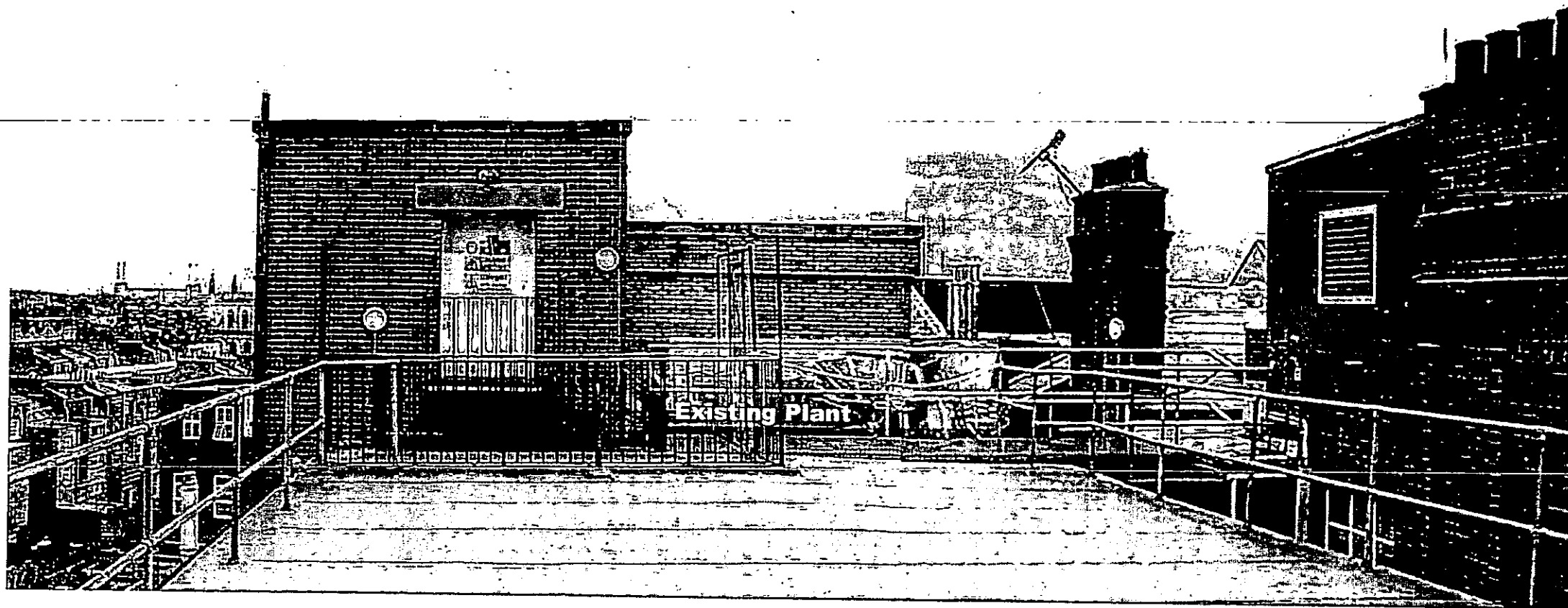
EX DIR	HDC	TP	CAC	AD	CL	AO AK
R.B. K.C.		26 FFP 2004		PLANNING		
N	C	SW	SF	APP	IO	LC
		AND		PL		DES

Enc

Cc Mr C Randall
Mr P Gunn

Royal Marsden Hospital
CJ Design

Gibberd Limited
 117-121 Curtain Road
London EC2A 3AD
 +44 (0) 20 7739 3400
 +44 (0) 20 7739 8948
 studio@gibberd.com
 www.gibberd.com



View 04

View 04



GIBBERD,
Royal Marsden Hospital
View of Existing Plant from Roof

OFFICE COPY



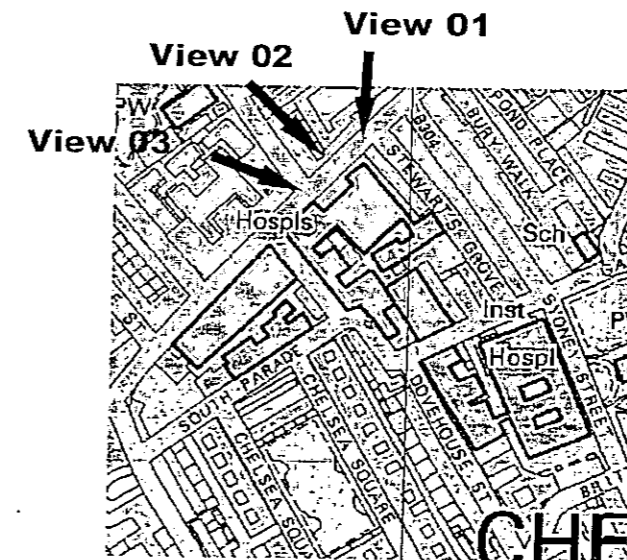
View 01



View 02



View 03



GIBBERD
 Royal Marsden Hospital
 View of Existing Plant from Street

OFFICE COPY