

Building Committee file

18th June 63

In Replyance.

Mr. J. Louth,
Building R1,
N.I.R.N.S.

AH/MJT

MIRNS - Proposed Extension to Converter Hall R4
Project Estimate - Job No. 6708

Further to the Rutherford Laboratory Building Committee meeting on the 10th instant and our subsequent meeting when the above project was discussed in further detail, I now attach Banda sketch No. 1146 together with brief AR.12 which now embodies your revised requirements. Our Q.S. Project Estimate for this scheme is as follows:-

	£
Building & Civil - Externals	3,000
Electrical	400
Mechanical	1,600
Total	£5,000
Fees	15%
	<u>£750</u>

The estimate excludes any allowance for equipment or furniture - these being supplied entirely by N.I.R.N.S.

A summary of expenditure and construction period is attached based on the assumption that this project is negotiated with Messrs. Chivers and freedom of access to R4 is given to the Contractor.

Six copies of relevant papers are attached.

For your added information the Building and Civil plus externals work out at 105/3 per ft. super, and the mechanical and electrical at £2,000 work out at 70/2 per ft. super.

Submitted for approval and for instructions to proceed with detailed working drawings.

K. H. Choate
K. H. Choate,
Assistant Chief Architect.

PROJECT ESTIMATE1. Title and Site:-

Proposed extension to Converter Hall - N.I.R.N.S. R4.

2. Estimated Capital Expenditure

Year	B & C	M & E	Externals	Totals
1963/64	1,000	1,000	100	2,100
1964/65	1,900	1,000	-	2,900
Totals	2,900	2,000	100	5,000

TOTAL FOR CAPITAL SANCTION £5,0003. ESTIMATED ENGINEERING GROUP CHARGES

Design of Building and Civil work	}	15%
Electrical work and instrumentation		
Conventional Mechanical Services		
Purchase, inspection, cranes and progress		
Cost Estimate	}	<u>£750</u> *
Supervision and Site Construction		

4. The foregoing estimates and rates of expenditure are based on current costs of labour and materials and allow for:-

Receipt of Planning Approval by June 25th, 1963
 Commencement of site construction by Oct. 1st, 1963
 Completion of site construction by Feb. 28th, 1964.

5. Estimates include for all work described in:-

Brief AR.12 and Banda Sketch 1146.

6. Estimates exclude:-

Furniture, plant and equipment.

Date 17th June, 1963.Signed *R. H. H. H.*
Assistant Chief Architect* Footnote:- These charges are included in the Engineering Group Budget.

AH/MJT

Establishment **M.I.R.N.S.**Project **R4 - Extension to Converter Hall****FUNCTIONAL SPECIFICATION BRIEF**

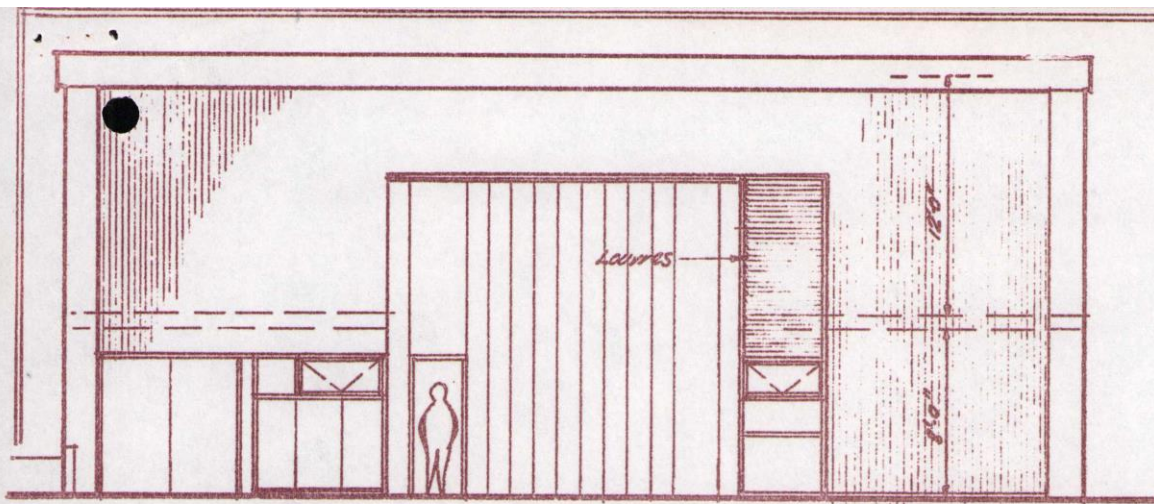
Client Division

Function	Mercury maintenance		
Number of Male = Ind.	} 2		
= Non-Ind.			
Occupants Female = Ind.			} Nil
= Non-Ind.			
Roofs	No special requirements 4" Reinforced wood wool slabs		
Floors	No special requirements Epoxy resin impervious finish Special* Concrete		
Walls	Piling or Special Foundations Paint faced Gloss paint impervious to Mercury vapour Plastered Acoustic Shielding Demountable Partitions Framed or Load Bearing		
Ceilings	No special requirements Special* as for walls		
Doors	No special requirements Special* Normal		
Windows	No special requirements Special* Single Double Fixed & opening - Hardwood Cill height to suit design Curtains Blinds		
Height of Rooms	Ground floor approx. 8'6" 1st floor approx. 11'6"		
Special Filaments by Architects*	Nil		
Fire Protection	CO2 Hand extinguishers supplied by MIRS Alarms Auto Heat Rise Smoke Detectors		
Sanitary Accommodation	1 Lav. basin only.		
Heating	Input Steam Warm air from existing building Hot Water		
Hazard*	Toxic Fumes		
Ventilation	Pneum Heating to 60° Max. " Extract 10 air changes per hour " Active " Non Active " Toxic " Filtered " Non Filtered		

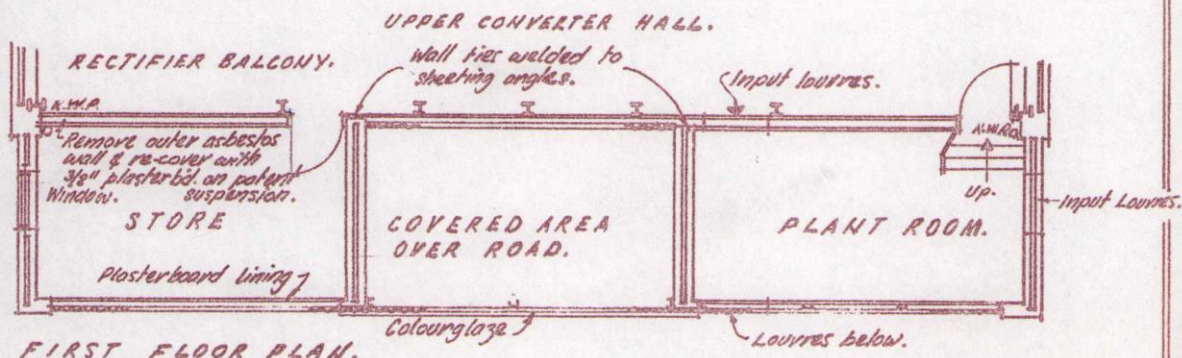
Air Sampling	Particulate } Yes Gaseous }
Lighting	No special requirements 15 F.C. Special* Flush Clean finish
Cranes	Hand Electric } Nil Lifts } Hoists } Monorails }
Quote operating speeds and hook clearances	
Effluent & Drainage	Sewage (Foul) Nil Radio Active Trade waste Storm Water Photographic
Services -	Water Drinking Raw Domestic Raw Process Hot Domestic - storage heater Hot Process Domestic Distilled Conductivity Cooling
Services -	Steam Process } Compressed Air } Town Gas } Nil Vacuum } Gas Argon } Gas Argon & Nitrogen } Gas Nitrogen } Gas Oxygen }
Electricity	A.C. Power to Equipment No special requirements D.C. Special* Standby Guaranteed Power Plugs Lighting Points
Furniture*	All by Client
Security	Fencing - Height } Burglar Alarms } Nil
Plant & Equipment User's	Nil
Moundings	Nil
Access (Roads & Paths)	Existing
Streetlighting	Existing
Fencing & Gates	Nil
Telephones	No

Notes:- All items marked * to be amplified on appendices
if required. All items MUST be answered YES or
NO, PROBABLE etc.

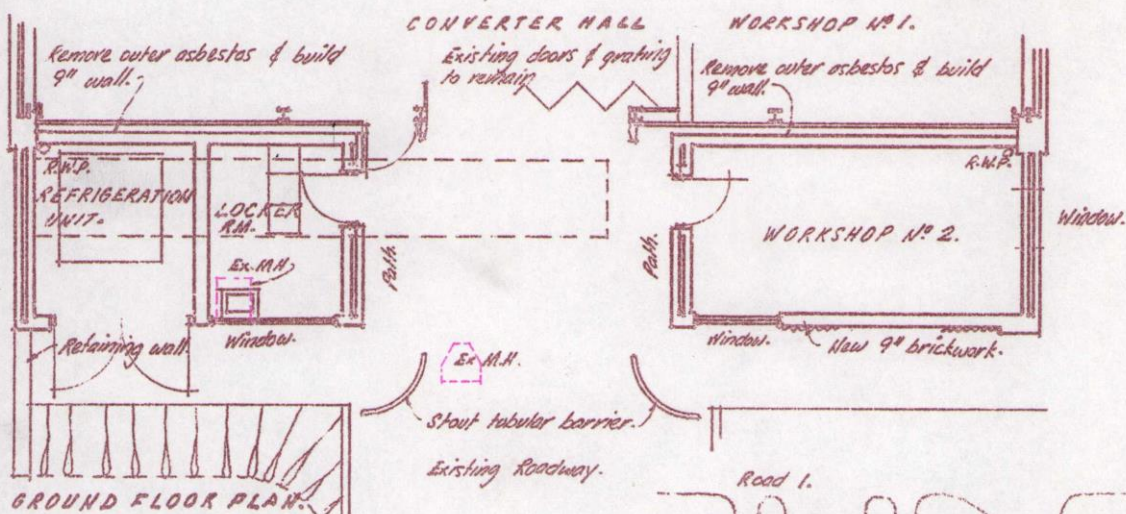
Signed: Alan Hancock Date: 17.6.67 Signed: _____ Date: _____



EAST ELEVATION.



FIRST FLOOR PLAN.



GROUND FLOOR PLAN.

N.I.R.N.S. R.4.
PROPOSED EXTENSION TO
CONVERTER HALL. CHILTON.

Scale 1/8th inch = 1ft.

Appd By. *[Signature]*

Date 17.6.63.

ARCH REF. 1146.

LOCATION
PLAN 1/250.

