

28th March, 1961

NI/GP/61/22

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

Plant Store for the Rutherford Laboratory

Note by the Chairman of the Rutherford Laboratory Building Committee

1. To meet the present need for storing equipment the maximum use has been made of storage facilities at Didcot Depot. With the decision to close this depot the War Department have indicated that they will require this storage to be vacated at short notice from about the end of July 1961. Alternate storage facilities have been sought without success.
2. The need therefore exists for a suitably heated single storey building for housing plant items held as spares for NIMROD and the P.L.A. together with experimental and general equipment that will require to be retained for future use within the Rutherford Laboratory.
3. The estimated total floor space of heated storage to meet the requirements of the various groups is 14000 sq. ft. In addition, 4000 sq. ft. of fenced hardstanding is considered necessary to house those items for which "open" storage is permissible. It is recommended that this plant store is located within the Rutherford Laboratory and the proposed siting is shown in the attached sketch plan.
4. A technical survey has been made of firms specialising in the supply and erection of this type of building, and as a result the Southern Works Organisation have obtained tenders from several firms for a "package" construction to include the building supplied, delivered, erected on site, the installation of heating and lighting services and the construction of the hardstanding and approach roads. These tenders are under examination. It is anticipated that construction could be completed 6 months from the placing of the contract, and it appears that the overall cost of the scheme will be approximately as follows:-

Architects and M. and E. Works	£37,000
Stores racking	£ 1,000
Fees	£ 4,000
Total	<u>£42,000</u>

This expenditure will fall mainly in the financial year 1961/62, sufficient funds being available in the approved estimates.

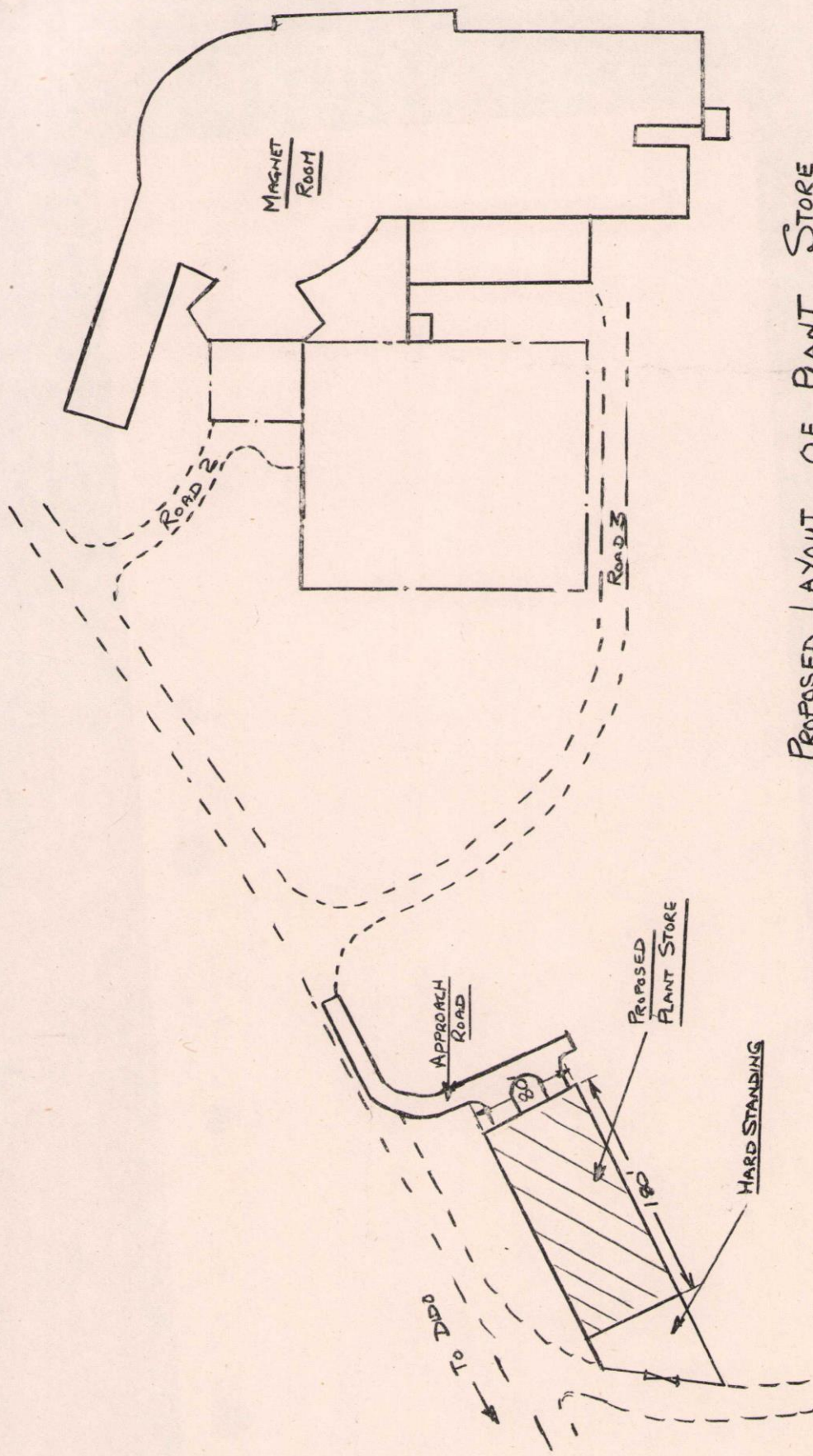
The cost of the plant store excluding the fenced hardstanding and stores racking is approximately £2. 10. Od. per sq. ft. which is considered reasonable for this particular type of building.

5. Approval is sought for the scheme described in this paper at a total cost not exceeding £42,000.

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Circulation: to Members of the G.P.C. and
to Members of the Governing Board for information.



PROPOSED LAYOUT OF PLANT STORE

IN CONFIDENCE

Proposed Plant Stores Building

1. The schemes for the proposed Plant Stores Building and associated siteworks furnished by the undermentioned firms have been examined:-
 - 1.1 Messrs. Turiff Construction Corporation Ltd. - £37,930
 - 1.2 Messrs. Beecham Buildings Ltd. - £32,663
 - 1.3 Messrs. Chivers & Sons Ltd. with Conder Superstructure - £30,453
 - 1.4 Messrs. Chivers & Sons Ltd. with Coseley Superstructure - £28,507
2. No advantage is seen to the scheme furnished by Messrs. Turiff Construction Corporation Ltd. to justify the acceptance of their tender compared with that of the next lowest by Messrs. Beecham Buildings Ltd.
3. Careful consideration has been given to the two schemes provided by Messrs. Chivers & Sons Ltd. and the one scheme by Messrs. Beecham Buildings Ltd. Despite the higher quotation, it is recommended that the latter firm's tender should be accepted as giving better value for the prices quoted.
4. The scheme produced by Messrs. Beecham Buildings Ltd. possesses the following advantages and the price difference is considered fair and reasonable:
 - 4.1 Superior architectural finish and elevations have been achieved. The two schemes offered by Messrs. Chivers & Sons Ltd. present large areas of asbestos sheeting which, when seen from the Bequerel Avenue, will present an ugly shed like appearance.
 - 4.2 The flat type aluminium clad roof conforms with the general styling of other buildings on the site. Messrs. Chivers & Sons Ltd. offer low pitched roofs using asbestos sheeting, a material not considered as safe for industrial buildings.
 - 4.3 The painting and fabric maintenance costs will be negligible compared with the asbestos sheeted, steel framed buildings offered by Messrs. Chivers & Sons Ltd.
 - 4.4 The building floor and external hardstanding offered by Messrs. Beecham Buildings Ltd. is stronger by virtue of the thicker concrete and heavier reinforcing. It is estimated that this accounts for approximately £2,000 in the price difference.
 - 4.5 The "daylight" arrangement in the Messrs. Beecham Buildings Ltd. scheme is superior due to more even distribution of glazing and at high level in the side walls. The latter feature is advantageous in stores allowing stores to be stacked close to the walls without blocking daylight or the possibility of damage to the windows.
 - 4.6 The scheme offered by Messrs. Beecham Buildings Ltd. being in concrete affords less fire damage risk than the painted steel framework offered by Messrs. Chivers.
 - 4.7 The total floor area is slightly greater than any of the other schemes submitted.
5. Apart from the above considerations the general construction and appearance of the building offered by Messrs. Beecham Buildings Ltd. would provide greater flexibility of usage should it be desired to change to a scientific or engineering purpose at some future date, if policy dictated. The construction and appearance of the buildings offered by Messrs. Chivers & Sons Ltd. would make this change more difficult to achieve.
6. It is therefore recommended that the tender submitted by Messrs. Beecham Buildings Ltd. should be accepted.

P. Bowles