

5224
M. P. Bowles
for information

24th August, 1960

NI/GP/60/32

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

ROADS, CAR PARKS AND FENCES
AT THE RUTHERFORD LABORATORY

Covering note by the Secretary

As requested by the Committee, the proposals previously made in paper NI/GP/60/24 have been reviewed, and the standard of the car parks has been substantially reduced.

I shall be grateful if Members will let me know whether they approve the new proposal enclosed herewith. If there are no objections, I will ask the Chairman whether he will give approval on behalf of the Committee.

8th August, 1960

APPENDIX TO

NI/GP/60/32

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

RUTHERFORD LABORATORY BUILDING COMMITTEE

Rutherford Laboratory Site Services
Additional roads, car parks and fences

1. At the meeting of the General Purposes Committee on the 12th May 1960 the Committee took note of paper NI/GP/60/24 but asked for the proposals to be investigated with a view to reducing the overall costs. In re-examining these estimates it was seen that the costs quoted had been prepared by a Quantity Surveyor whose knowledge of current prices was accepted. It was therefore decided to examine the civil engineering specification to judge whether these could be amended.
2. In regard to the car parks detailed in paragraphs (5) and (6) of paper NI/GP/60/24 (a copy of which is appended) some economy is possible by amending the specification so as to make them only suitable for private cars, heavier traffic being parked in the north bus park. The new specification will call for a minimum excavation, a 4" layer of ash and a 2" layer of tarmac. Use will be made of the natural contour to provide a drainage ditch to a soak-away. By adopting the new specification the cost of car park in paragraph (5) will be reduced from £2,500 to £1,100 and the car park in paragraph (6) will be reduced from £6,900 to £2,800. This means that the cost of a car parked will be approximately £30 instead of an approximate cost of £70 given previously.
3. In regard to the roads and fences described in the paper, no reduction in cost is possible, but the additional explanatory points are as follows:-
 - 3.1 In regard to paragraph (1), the cost of this road is £5. 8. Od. per sq. yd. or £36 per yd. run. The specification of the road follows generally that laid down by the D.S.I.R. for medium heavy traffic and as this is a main road into the site this specification should not be relaxed further.
 - 3.2 In regard to paragraph (2), the cost of this road is £7. 5. Od. per sq. yd. or approximately £48 per yd. run, the higher cost in this case being due to the provision of a main drain at a cost of £1,500 which is to cope with run off water from the roads and buildings immediately adjacent.
 - 3.3 In regard to paragraph (3), here again the costs are £5. 8. Od. per sq. yd. or £36 per yd. run, and again it is felt the specification should not be relaxed further. It is appropriate to mention that these standards are much lower than the roads already laid in the vicinity of Nimrod and therefore economies have already been effected.
 - 3.4 In regard to paragraph (4), the actual cost of the road shown would have been £2,300 on a level site, but cutting and excavation will be necessary at an additional cost of £1,200. The overall cost per yd. run will be £55.

4. With the economies introduced in the car park requirements the total estimate is thereby reduced from £29,800 to £24,300. It is recommended that the above proposals be adopted and authority is therefore requested for the work to proceed at the total cost of £24,300.

P. BOWLES
Chairman, Rutherford Laboratory Building Committee

28th April, 1960

COPY OF APPENDIX TO
NI/GP/60/24

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

RUTHERFORD LABORATORY BUILDING COMMITTEE

Rutherford Laboratory Site Services
Additional roads, car parks and fence

The proposals outlined in this paper deal with roads and car parks which will be required before the end of 1961 and which are not already authorised as separate items or included with associated buildings.

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|-----|---|----------------|
| (1) | The secondary access road at present has only the concrete base and is being used as the access to the North car park and as the building contractors entrance for Phase II extensions. This road will require kerbs, draining and surface finish at an estimated cost of | £3,300 |
| (2) | The secondary access road will have to be extended to provide access to the ancillary maintenance building and thence past the cooling towers to link with the present road through the site. This complete with kerbs, drains and surface finish at an estimated cost of | £6,900 |
| (3) | A new North to South link between the secondary access road and the main approach road. This road has been positioned to allow reasonable extension to the existing line of buildings and to give access to the rear of the proposed restaurant, lecture theatre and associated car park. This complete with kerbs, drains and surface finish at an estimated cost of | £5,700 |
| (4) | In order to give an open approach to the new main entrance in the Phase II Laboratory and Office building and to ease the circulation of traffic, an island link at the west end of the main approach road is proposed at an estimated cost including kerbs, draining and surface finish | £3,500 |
| (5) | A car park for approximately 35 cars situated on the eastern side of the contemporary office block is proposed at an estimated cost of | £2,500 |
| (6) | A car park for approximately 100 cars situated on the northern side of the proposed canteen and lecture theatre is proposed at an estimated cost of | £6,900 |
| (7) | A fence running east to west on a line just north of the north car park to prevent people wandering across the area east of the Proton Linear Accelerator where a radiation hazard could exist, is proposed at an estimated cost of | £1,000 |
| | <u>TOTAL</u> | <u>£29,800</u> |

A copy of Sketch 00019 (attached) indicates the above proposals on a site layout. Funds are available in the approved estimates for 1960/61 under the heading of site services and roads.

It is therefore recommended that the above proposals be adopted at the estimated cost of £29,800.

P. BOWLES
Chairman, Rutherford Laboratory Building
Committee.