

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For the following qualifications :-

B.Sc.

ES2040: Quantity Surveying and Contract Procurement

COURSE CODE : **ENVS2040**

UNIT VALUE : **0.50**

DATE : **26-APR-02**

TIME : **10.00**

TIME ALLOWED : **3 hours**

02-C0428-3-40

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TURN OVER

ENVS2040 QUANTITY SURVEYING AND CONTRACT PROCUREMENT

Answer FOUR questions
All questions carry equal marks

QUESTION 1

Critically evaluate the client objectives of time, cost and quality in terms of the traditional, design and build and construction management procurement methods. *(25 marks)*

QUESTION 2

A contractor has a contract from a major property developer city client to construct a high quality ten-storey speculative office building. Appraise the terms, cost and value in relation to this contract and to both parties. *(25 marks)*

QUESTION 3

The RIBA Outline Plan of Work 1998 provides work stages into which the process of designing building projects and administering building contracts may be divided. Stages C, D and E of the pre-construction period are described as follows:

- C Outline Proposals**
Commence development of Strategic Brief into full Project Brief.
Preparation of Outline Proposals and estimate of cost.
Review of procurement route.

- D Detailed Proposals**
Complete development of the Project Brief.
Preparation of Detailed Proposals.
Application for full Development Control approval.

- E Final Proposals**
Preparation of Final Proposals for the project sufficient for co-ordination of all components and elements of the project.

Discuss the Quantity Surveyor's involvement and contribution within these stages.

QUESTION 4

During the final proposals of the pre-construction period, the client informs the design team that he wishes to include within the project a major artistic feature incorporating the company's logo. Discuss the options available to the client at both pre-contract and post-contract stages to have the work involved in this specialist feature carried out.

(25 marks)

QUESTION 5

Take off the quantities for the concrete and formwork to the first and second floor columns and the suspended floors and attached beams to the first and second floors only of the reinforced concrete framed building in accordance with the attached drawings. Adjust the measurements to take account of the staircase openings.

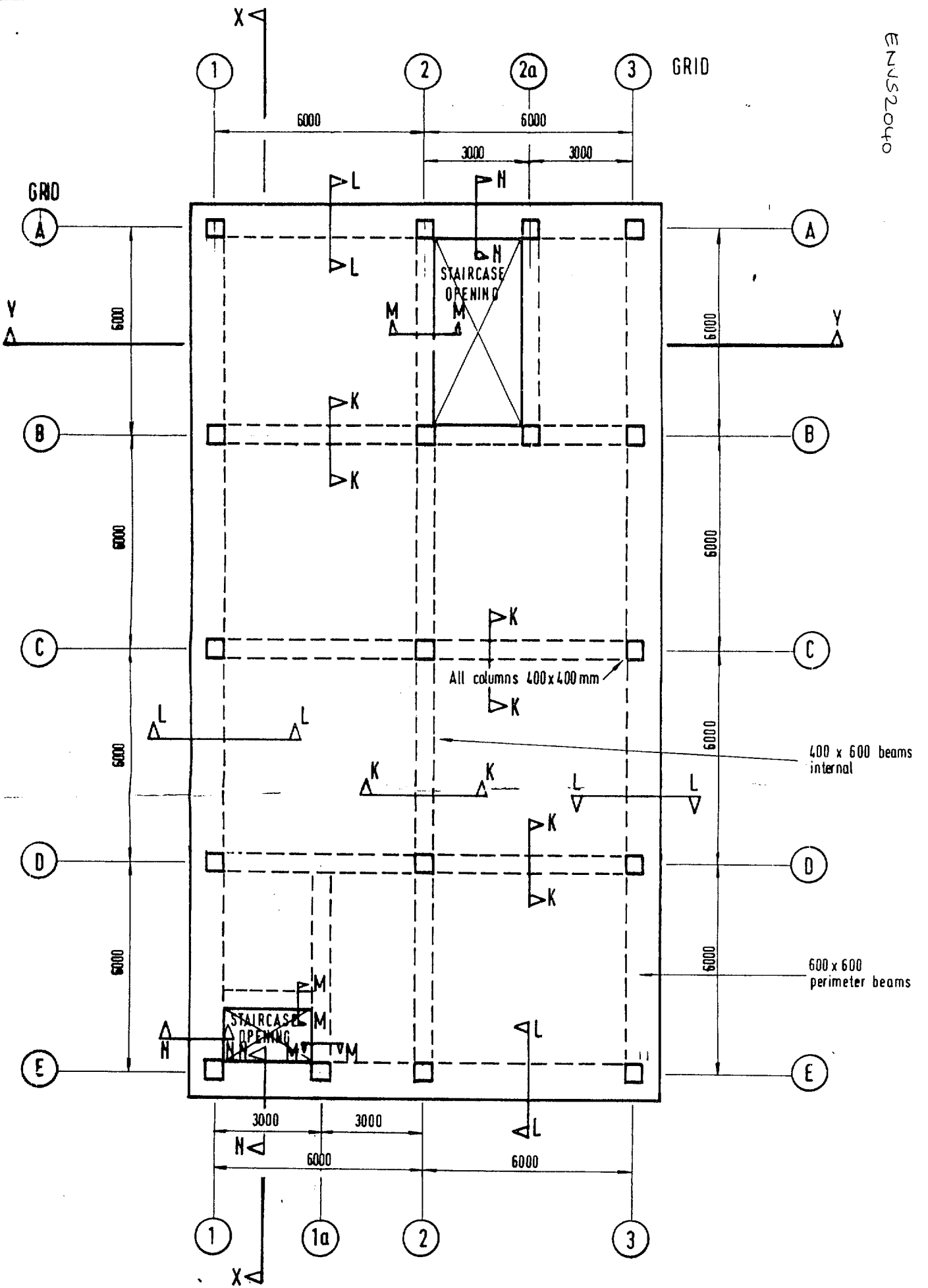
(25 marks)

QUESTION 6

Within the time period in which the contractor has to complete the estimate and submit the tender bid, a pre-tender project appreciation meeting should be arranged with the contractors' interested staff. This meeting would usually have available to it a detailed report on the tender documents as well as reports from visits to the design consultants and the proposed construction site. Discuss the purpose of such a meeting, indicating the likely agenda items and meeting outcomes.

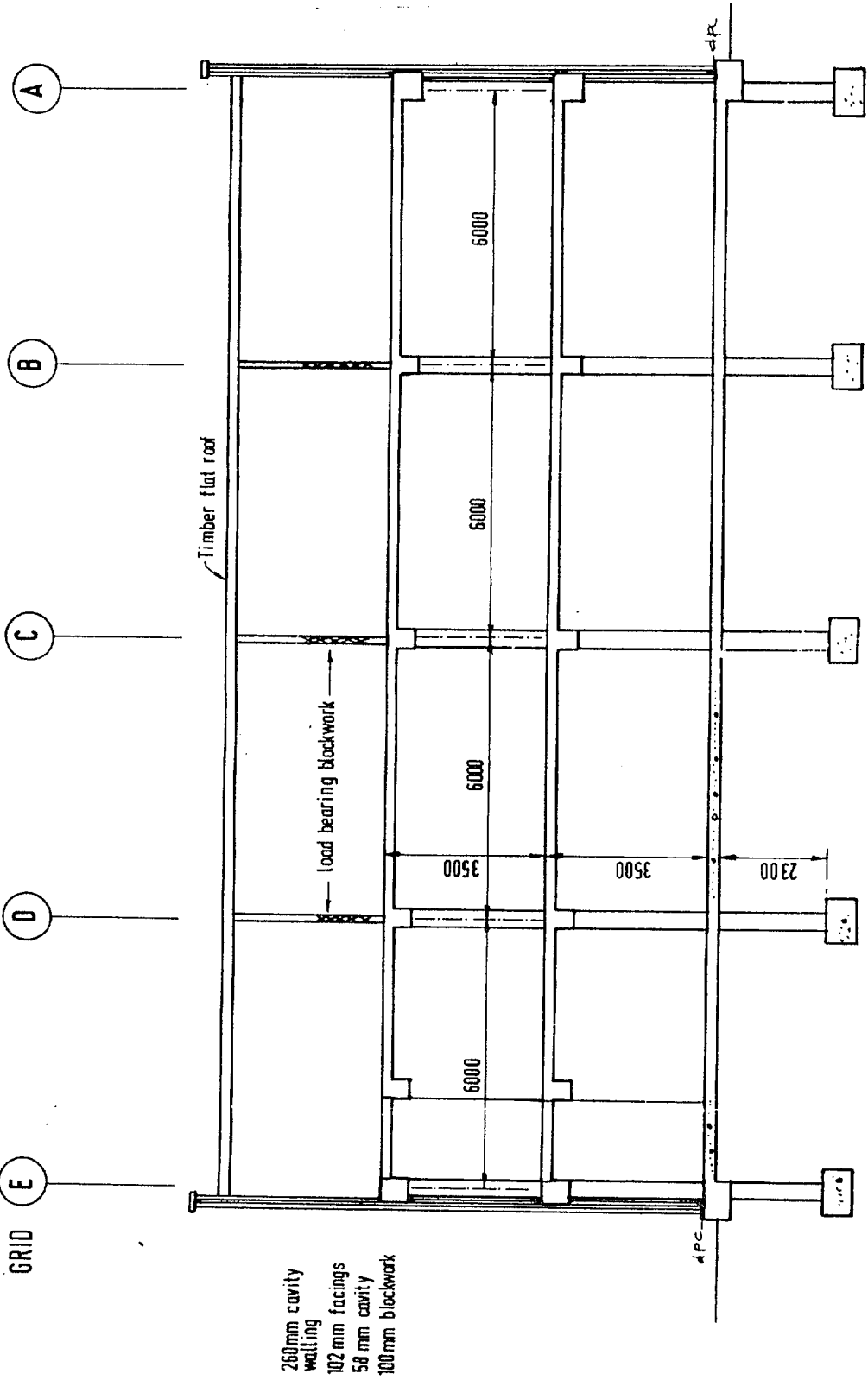
(25 marks)

END OF PAPER



FIRST FLOOR & SECOND FLOOR PLANS
SCALE 1:100

ENNS 2040



Reinforced Concrete to have crushing strength of 30 N/mm² at 28 days.

20mm max aggregate size.

Floors to be finished with tamped surface.

Surface finish of concrete to be left as struck for subsequent plastering.

Reinforcement to be supplied by firm approved by the Architect.

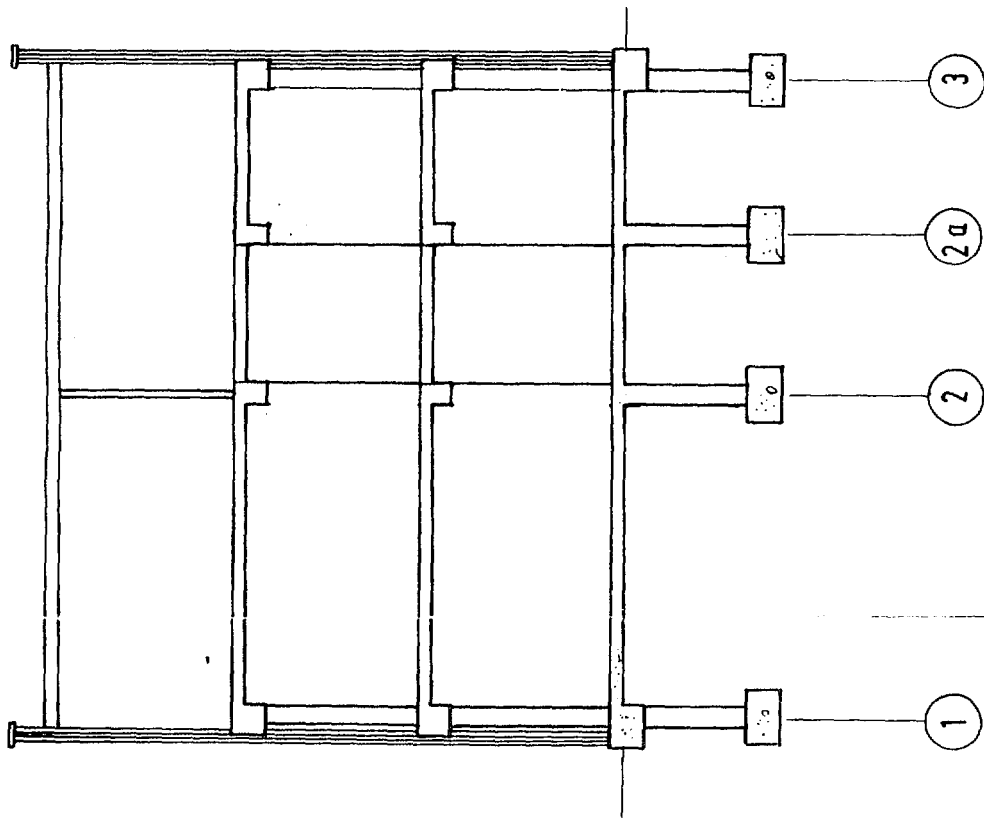
	SLABS	COLS
32mm HT bars	9000	3500 Kg
20mm HT bars	14000	- Kg
16mm HT bars	3400	- Kg
10mm M S links	800	500 Kg

Formwork
Substructure type '1'
Superstructure type '3'

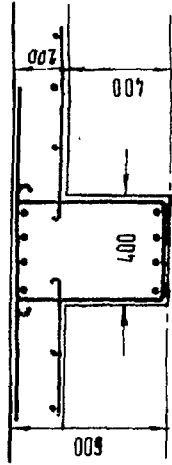
SECTION X-X
SCALE 1:100

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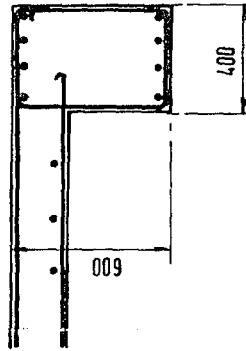
ENVS 2040



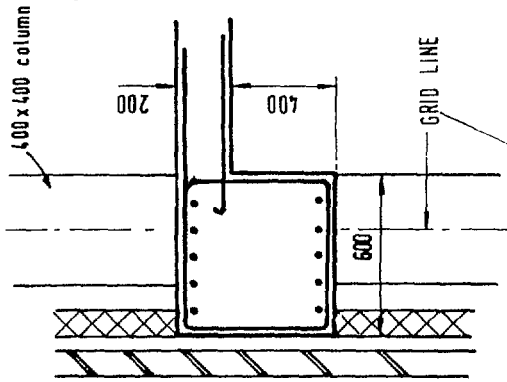
SECTION Y-Y
SCALE 1:100



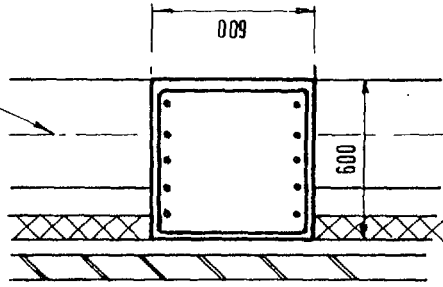
DETAIL K
SCALE 1:20



DETAIL M
SCALE 1:20



DETAIL L
SCALE 1:20



DETAIL N
SCALE 1:20