NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING

PART I - SUPPLEMENTARY EXAMINATIONS –August 2013

AQS 1102 – DESCRIPTIVE GEOMETRY

Time: 4 Hours   Total Marks: 100

Instructions

Answer ALL questions
Number all your sheets.

QUESTION 1

A young couple, Mr and Mrs X have embarked on building their dream house on stand number 15 Berwick Road Southdowns Gweru.The corner rectangular stand at a T –junction measures sixty meters (60m) along the twelve meter (12m) wide main road which runs from north to south and Forty meters (40m) wide along the smaller road .The attached sketch is not scaled and is the proposal for Mr and Mrs X's house.

The structure shall be located such that it will be nineteen meters (19m) from the main road boundary and Twenty three (23m)from the other road.

WINDOW SIZES
C4   1511 x 951
C1   533 x 951
ES1   1533 x 654

DOOR SIZES
External Door 813 x 2032
Internal doors 762 x 2032

Draw the following at appropriate scales for approval by Gweru City Council :
   a) Site plan   **(10 marks**)
   b) Floor plan   **(40marks**)
   c) Two elevations (front and side)   **(25 marks**)

QUESTION 2
   a) State and explain any three types of three dimensional (3 –D) drawings. **(10 marks)**
   b) Discuss two main categories of orthographic projections including symbols used to represent each category.   (**10 marks**)
c) List any five main parties involved in a construction project.   (**5 marks**)

END OF EXAMINATION