

CASE HISTORY :- QUEEN ELIZABETH HOSPITAL BIRMINGHAM

ARCHITECT	BUILDING DESIGN PARTNERSHIP
CONTRACTOR	BALFOUR BEATTY
SUB CONTRACTOR	SMALLWOOD GABION CONSTRUCTION
CONSTRUCTION	2005
GABION WALL DESIGN	HY-TEN GABION SOLUTIONS



GABION FACING WAS CHOSEN BY THE ARCHITECT TO ENHANCE THE VISUAL APPEARANCE OF THE NEW MULTI STOREY CAR PARK AT THE QUEEN ELIZABETH HOSPITAL.

FOLLOWING DISCUSSIONS WITH THE ARCHITECT , HY-TEN PROPOSED TWO ALTERNATIVE DESIGNS:-

- 1) A FREE STANDING GRAVITY STRUCTURE
- 2) A THIN WALLING SUPPORTED BY THE STEEL FRAMEWORK COMBINED WITH ADDITIONAL COLUMN SUPPORT FOR STABILITY.

THE FINAL DESIGN WAS THE FIRST OPTION - A FREE STANDING GRAVITY STRUCTURE COMPRISING OF TRAPEZOIDAL SECTIONS AND COMBINED RECTANGULAR AND TRAPEZOIDAL SECTIONS.

A REQUIREMENT OF THE DESIGN WAS TO HAVE OPENINGS FOR VENTILATION, THESE OPENINGS WERE FORMED WITHIN THE WALL AND REQUIRED LINTELS SITED WITHIN THE WALL TO SUPPORT THE GABIONS ABOVE.

THE GABION SYSTEM USED IN CONSTRUCTION WAS BASED ON THE GABION 700 MODULE UNIT IN RECTANGULAR AND TRAPEZOIDAL FORM.

TO ENSURE QUALITY OF CONSTRUCTION THE GABIONS WERE MANUFACTURED WITH TRIPLE LIFE 76.2x76.2x5.0 mm MESH TO ALL EXTERNAL FACES WITH THE INTERNAL MESH BEING A 76.2x76.2x3.0 mm.

THE WALLS ARE NOW BEING VEGETATED WITH CREEPING PLANT VARIETIES THAT WILL FIND SUPPORT IN THE MESH TO FURTHER ENHANCE THE VISUAL APPEARANCE.



Hy-Ten Gabion Solutions also provides design services and technical support, for further information please contact :

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