

Advanced Diploma in Interior Design Course No: 19218

Module Name: **TECHNICAL COMMUNICATION** Module Number **CUVCRS04B**

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STAIR PROJECT

These notes are to be read in conjunction with the STAIR DETAIL assessment notes issued separately

Project overview

Stairs are an essential element in building design used to link floors of differing heights relative to each other.

I refer you to my separate notes on STAIRS for more detailed background information and methods of calculating stair dimensions to suit your designs.

This project is to:

- 1 CALCULATE the stair geometry for your design using:
 - a) Chosen stair rise and going dimensions to get the desired “grade” of the stair. This is of course relative to your clients age and physical ability and leg lengths.
 - b) Floor to floor height of your project. NOTE HERE that your stair may spring from a raised floor section and its vertical height would be altered to suit. Use of differing floor levels gives the chance to create more dramatic internal spaces.
- 2 DRAW the section through the stair (all its flights) at scale 1:20, just the stair rise:going profile for now.
- 3 CHECK headroom available under overhead beams and other projections. My notes describe the required headroom as a BCA minimum but I want you to check heights of several stairs and assess the psychological effect of having a “too low” or minimum headroom. See if 2300 is a good height for moving furniture or select your chosen solution for this.
- 4 DRAW the plan with all its flights and landings to agree with the section and space available on the floor. Impressed how much floor space these require??
- 5 CONFIRM that overhead projections are where they should be and not creating headroom problems.
- 6 CHOOSE the style of stair you want...either open tread, closed tread, cantilevered, simply-supported.
- 7 NOW ADD DETAIL of stair support construction based on your design choice above. There are sooooo many options here that I suggest you work closely with me to solve your individual issues.
- 8 DESIGN handrail/balustrade design and relate this to the stair construction. There are sooooo many options here as well that I suggest you work closely with me to solve your individual issues.
- 9 DRAW ENLARGED DETAILS at scale 1:5 to describe better the joining of pieces of your stair and methods of fixing and support and finish required.

These drawings will be the same sheet size and have the same style of title block as for your other technical drawings of this project.