

3.6.1. THE CONSTRUCTION INDUSTRY CIVIL DRAWINGS

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GENERAL INFORMATION FOR GRADE 10

- The build environment
- Title block
- Specifications
- Site plan (grade 12)
- Floor plan
- Elevation views
- A sectional view
- The arrow indicating position North

THE CONSTRUCTION INDUSTRY

- Buildings and shelters form part of our environment.



THE CONSTRUCTION INDUSTRY

- Buildings are built on basic principles of civil technology.



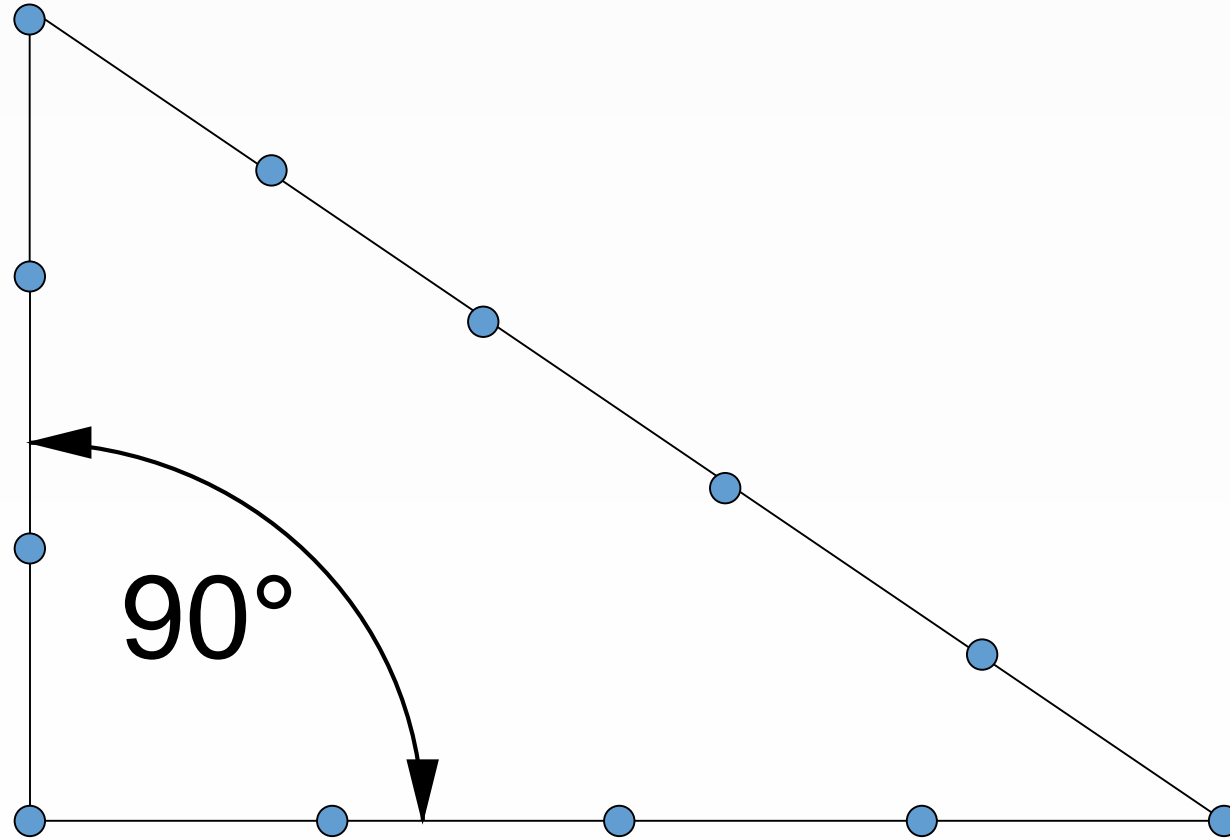
WHAT ARE THE BASIC PRINCIPLES OF BUILDING ?

- To save costs always build...
 - Horizontal
 - At 90°
 - Vertical

HORIZONTAL



METHOD TO CREATE A 90° ANGLE



VERTICAL



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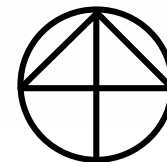
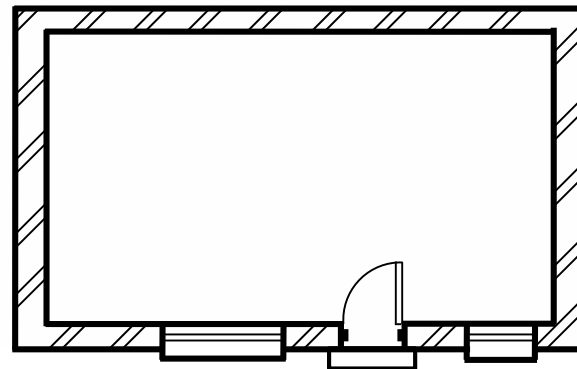
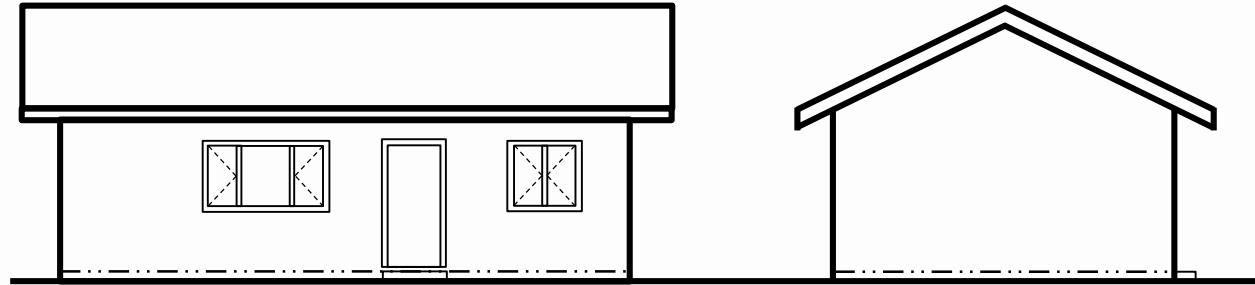
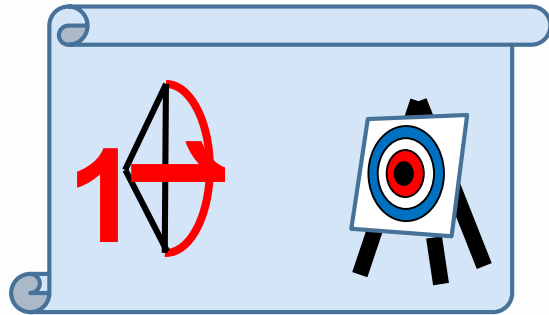
WHAT ARE THE BASIC PRINCIPLES OF BUILDING ?

- Drawings should be drawn in **1st angle orthographic projection**.
- Drawings should communicate the correct information.
- Good planning is priority.

FIRST ANGLE ORTHOGRAPHIC PROJECTIONS (F.A.O.P.)

SOUTH
ELEVATION

WEST
ELEVATION



FLOOR
PLAN

WHAT ARE THE BASIC PRINCIPLES OF BUILDING ?

- All instructions must be clear to the builder



WHAT ARE THE BASIC PRINCIPLES OF BUILDING ?

- What must appear on a house plan?
 - A title block and frame
 - Specification notes
 - The site plan
 - The floor plan
 - The four elevations
 - A sectional view
 - The arrow indicating position north

A TITLE BLOCK AND FRAME (Grade 10, 11 & 12)

Notes:

Copyright stamp:

Date issued:

Architect:

Project name:

Project title:

Drawing title:

Project No:

Drawing No:

Code ref:

Scale; Date; Drawn;
Checked

NOTES INCLUDE THE FOLLOWING

- Detail information (full sentences) about...
 - Roof type which must be tiles or corrugated iron, etc.
 - Spacing of trusses should be not larger...
 - Steel or wooden windows must be used...
 - Guttering should be of PVC and...
 - Fascia boards must be of fiber cement,
 - The usage of DPC is compulsory...

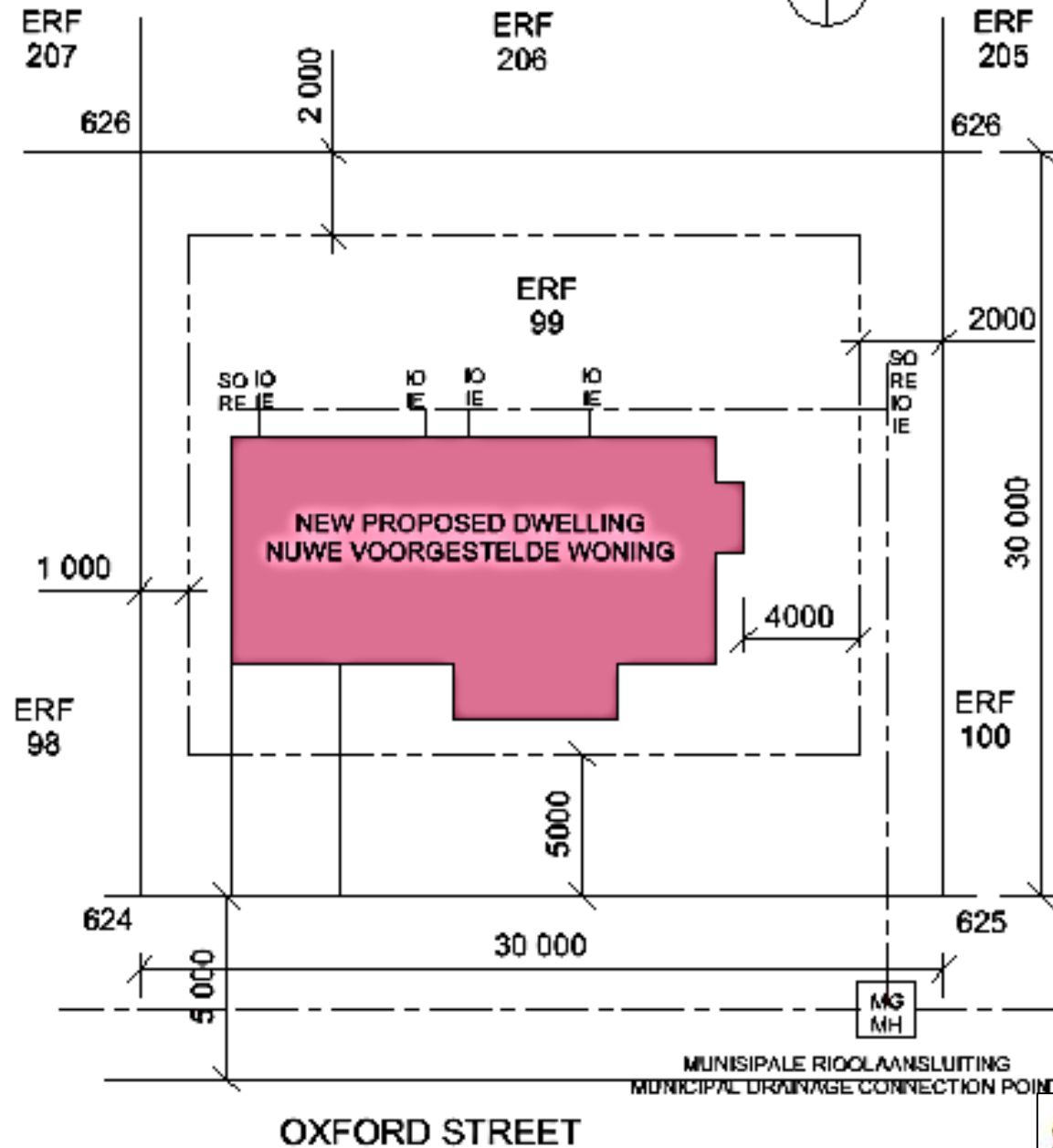
TABLES INCLUDE THE FOLLOWING

- Descriptive information about...
 - Room designation.
 - DPC.
 - NGL.
 - Window codes.
 - Plot numbers.
 - Dimensioning.

A SITE PLAN (grade 12)

SITE PLAN
TERREINPLAN

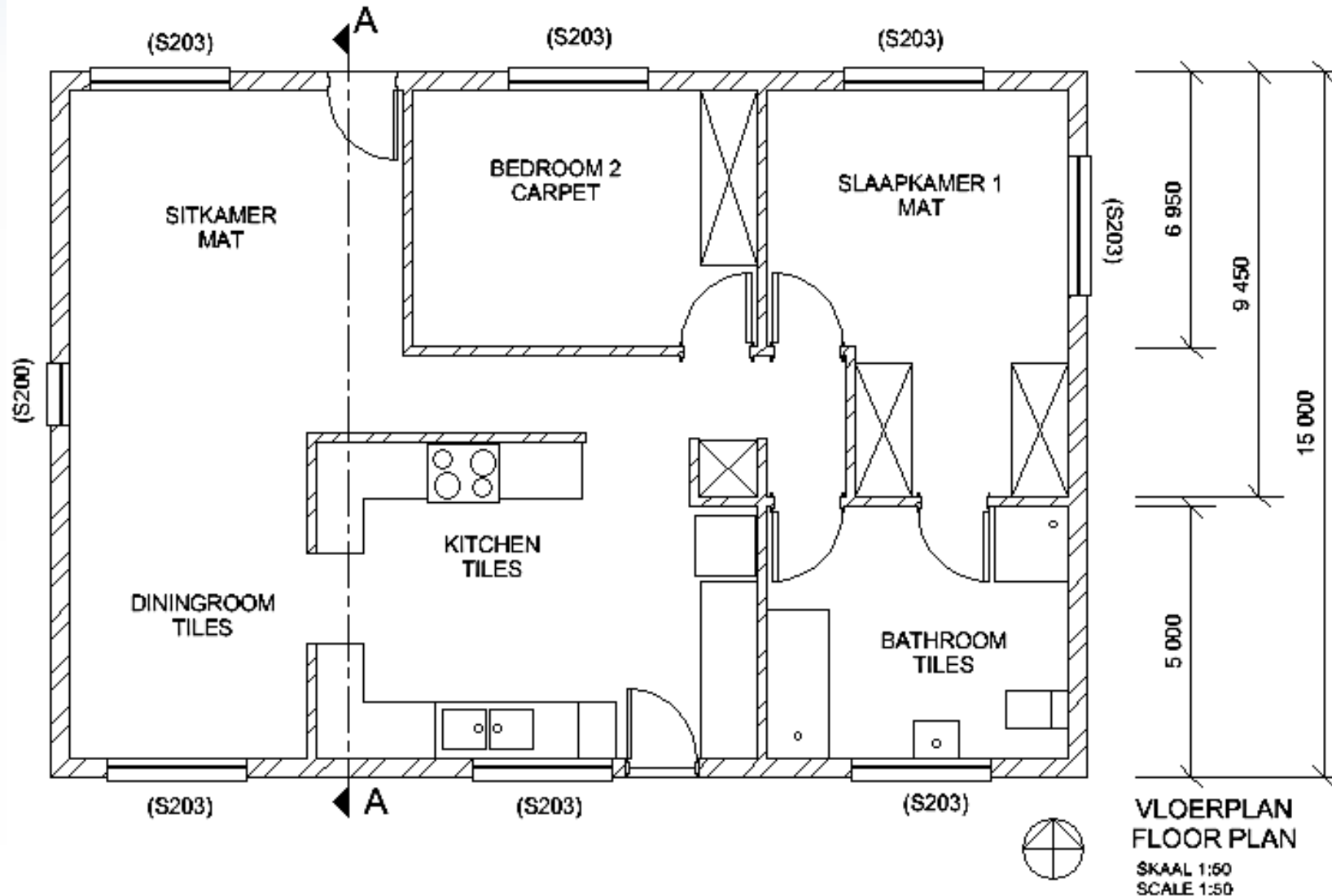
SKAAL 1:200
SCALE 1:200



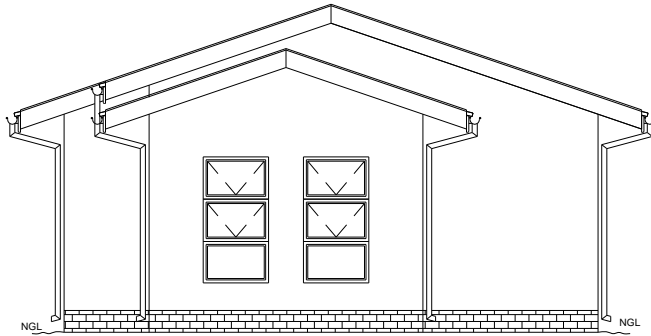
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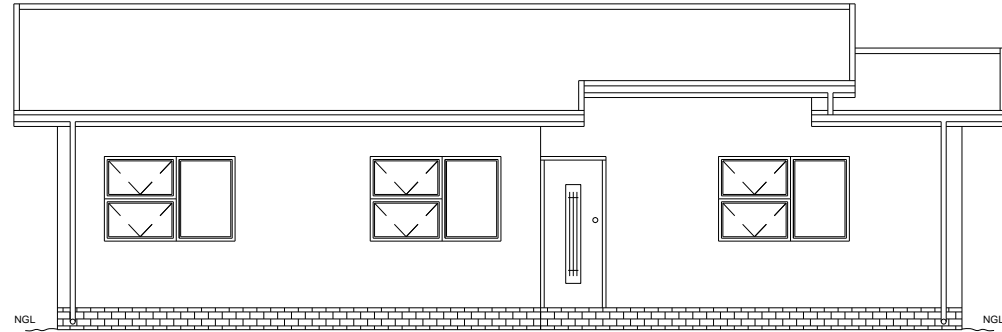
FLOOR PLAN (grade 10 & 11)



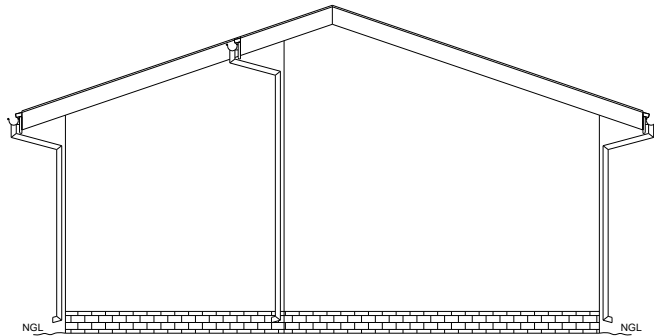
ELEVATION VIEWS (grade 10, 11 & 12)



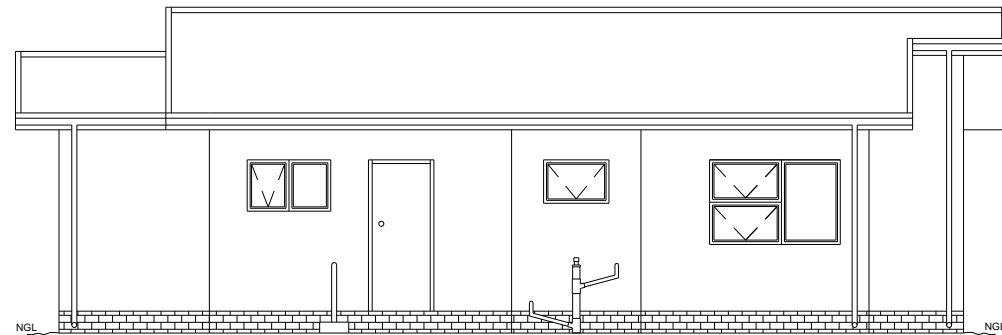
WEST ELEVATION
SCALE 1:100



NORTH ELEVATION
SCALE 1:100

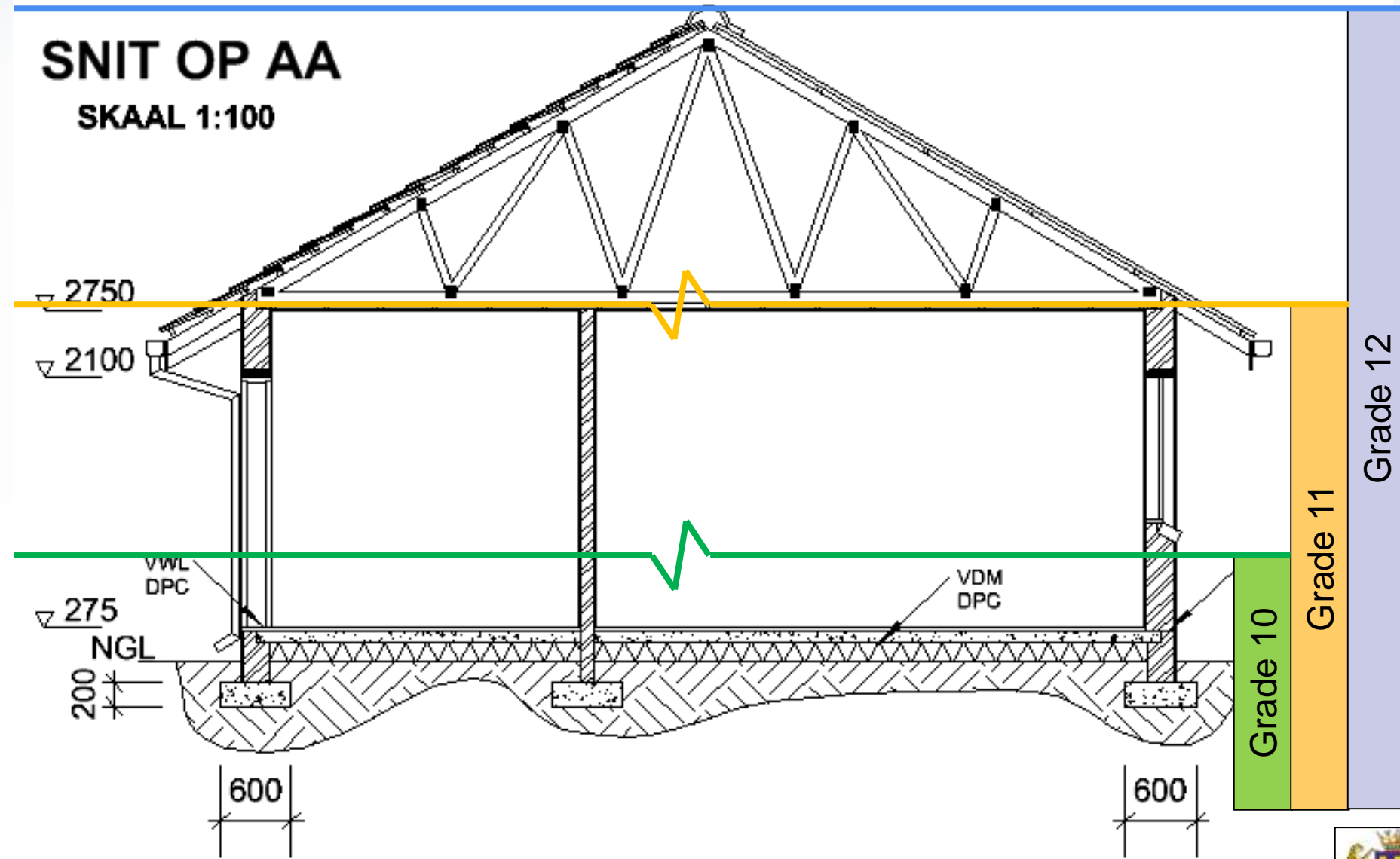


EAST ELEVATION
SCALE 1:100

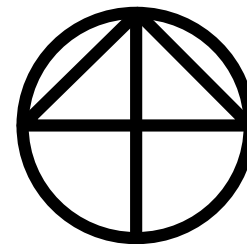


SOUTH ELEVATION
SCALE 1:100

A SECTIONAL VIEW



THE ARROW INDICATING NORTH (grade 1,11 & 12)



ARGITEK:
JC DE WET
BUS: 1 780,
BAINSVLEI,
9338
TEL NO: 083 437 4224

SACAP REG NO: TO 13631

OPPERVLAKTE VAN ...

ERF: 2 000 m²

BESTAANDE WONING: 269,8 m²
WONING AANBOUINGS: 8,4 m²
TOTAAL NUWE WONING: 278 m²

SKAAL VAN

VLOERPLAN - 1:100
AANSIGTE - 1:100
SNITPLANNE - 1:100
TERREINPLAN - 1:200

AANBOUING AAN WONING VAN
MNR & MEV DU PLESSIS

ERF 177,
12 FRANS VENTERSTRAAT,
LANGENHOVENPARK,
BLOEMFONTEIN

HANDTEKENING VAN KLIENT:

DATUM: JANUARIE 2010

GETEKEN DEUR: PC VILJOEN

NAGESIEN DEUR: JC DE WET
&
MEDEWERKERS

HANDTEKENING: _____

TEKENING NO: _____