

**General**  
This drawing to be read in conjunction with all relevant architects and engineers drawings.

Dimensions must not be scaled or assumed. After notification, discrepancies or missing dimensions will be corrected in writing by the engineer.

Levels shown to foundations are provisional and will be finalised by the engineer on site.

Foundations have been designed for a permissible bearing pressure of 50 KN/m<sup>2</sup>. Reinforcement shall comply with SANS 920 and be bent to SANS 282.

**Symbols**  
R = Mild steel bars with characteristic strength of 250 MPa.  
Y = Hot rolled or cold worked high yield steel bars with characteristic strength of 450 MPa.  
(Only reinforcement fabricated under the SANS mark shall be deemed to comply with SANS requirements).

Concrete where applicable shall apply:

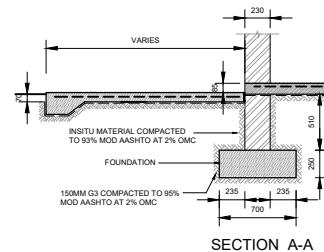
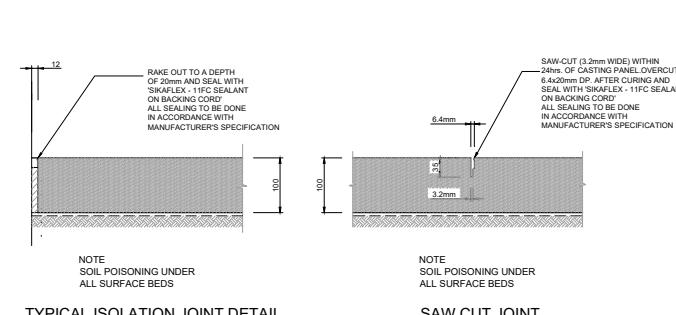
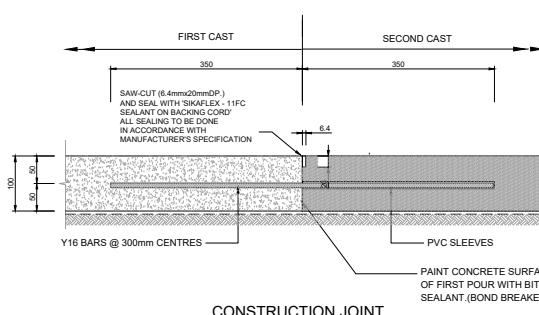
All concrete work shall conform with the latest amended issue of :  
SANS 1200 : Standard Specification for concrete and  
SANS 10100 : The structural use of concrete.

A set of six cubes must be made for every fifty cubic meter (or portion thereof) of concrete and must be tested within 24 hours of casting. The balance must be tested at seven days. The test results are to be submitted to the engineers immediately and should any problem be anticipated no shunting is to be stripped until further notice from the engineer.

All concrete shall be vibrated according to specification. All concrete must be cured continuously for seven days after pouring and effectively protected against dehydration.

All exposed concrete to be chamfered 25mm x 25mm

MEMBER	No. OF BARS PER MEMB	BARS DIA	LENGTH	TOTAL NUMBER	MARK	S C	BENDING				
							A	B	C	D	Efr
SLAB	1	22 Y12	1200	22	S01	20					



Shuttering and propping may only be struck after the lapse of the following times:	
(Ordinary Portland Cement in normal weather conditions)	
Position of Shuttering Props	Striking Time Days
Beam side walls & unloaded columns	2
Slab soffits without removal of slab props	4
Slab soffits with removal of props	7
Props on top side	10
Props unshuttered beams	14
Beams and slabs must be poured with the following cambers.	
Beam or Slab Element	Camber
Canilever beams and slabs	Span/150
Other beams and slabs	Span/400

Concrete strengths are specified in terms of clauses in SANS 1200.			
For the various elements they are as follows			
Structural Element	Concrete Grade		
Blinding	15		
Bases/footings	25		
Beams / Slabs	25		
Walls	25		
Columns	25		
The structure has been designed for the following imposed floor loads:			
Structure	Loading(kN/m <sup>2</sup> )		
Live Load			
Concrete cover to reinforcement (in mm) - Unless otherwise specified			
Bases/footings	50	Slab beams	50
Plinth (top and sides)	50	Columns	50
Plinth (bottom)	75	Slab	50
Ground beams	50	Slab (top steel)	50
Retaining walls (earth face)	50	Slab (bottom steel)	50

Transnet Port Terminals

(TRADING AS TRANSNET PORT TERMINAL) - REG. NO. XXXXX  
202 ANTON LEMBEE  
DURBAN CENTRAL  
4901

JOZINI MUNICIPALITY

MANGWAZANA HIGH SCHOOL  
ADMINISTRATION BLOCK

SURFACE SLAB  
LAYOUTS, SECTIONS AND DETAILS

PROJECT NUMBER	CD	FBS	DS	TYPE	DRAWING NO.	SHEET	REV	ID