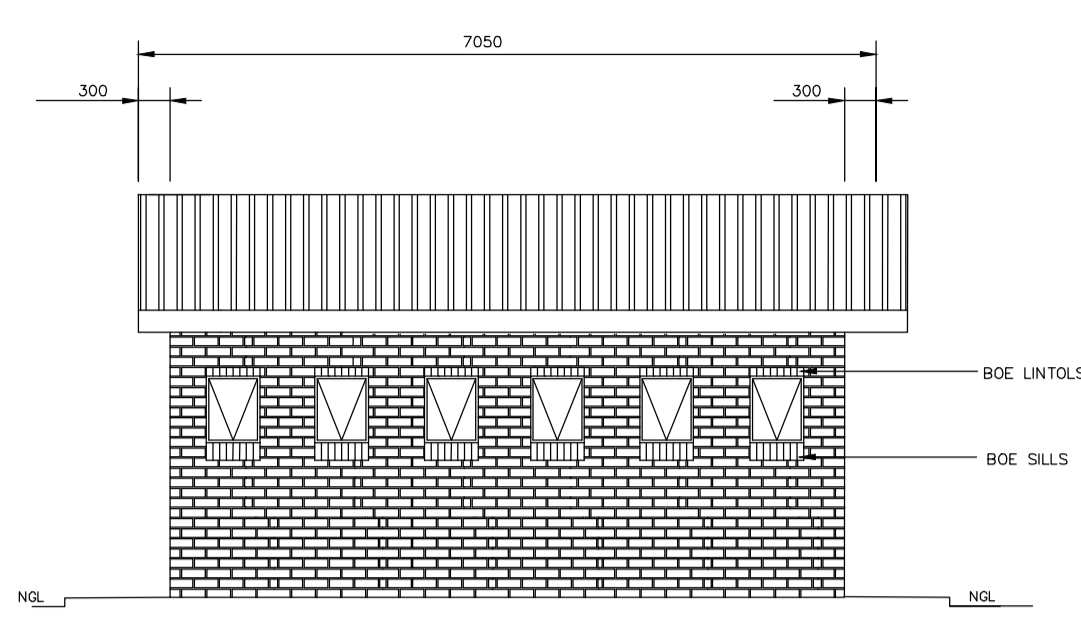
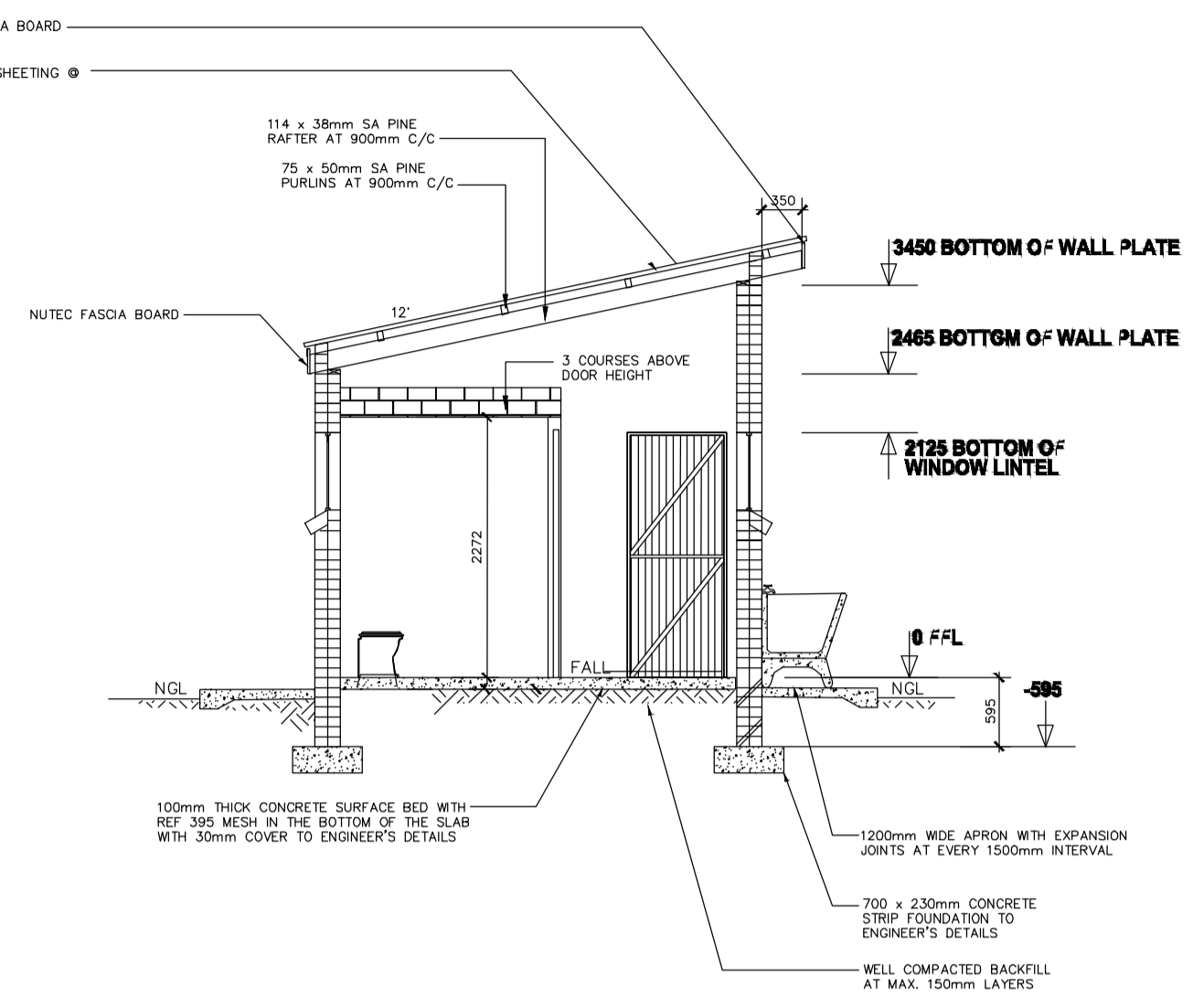


# FD4

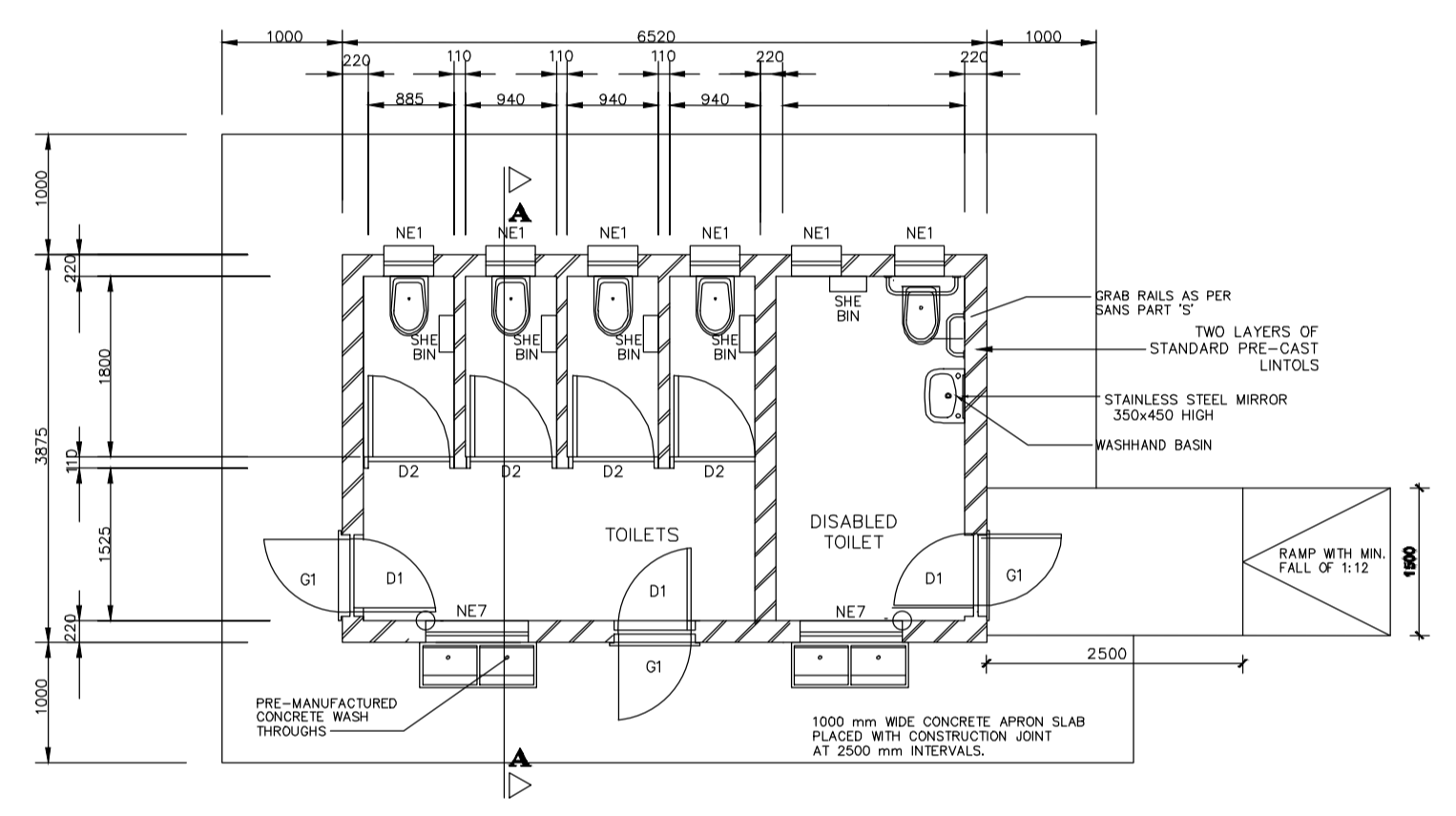


**NORTH ELEVATION**  
SCALE 1:75

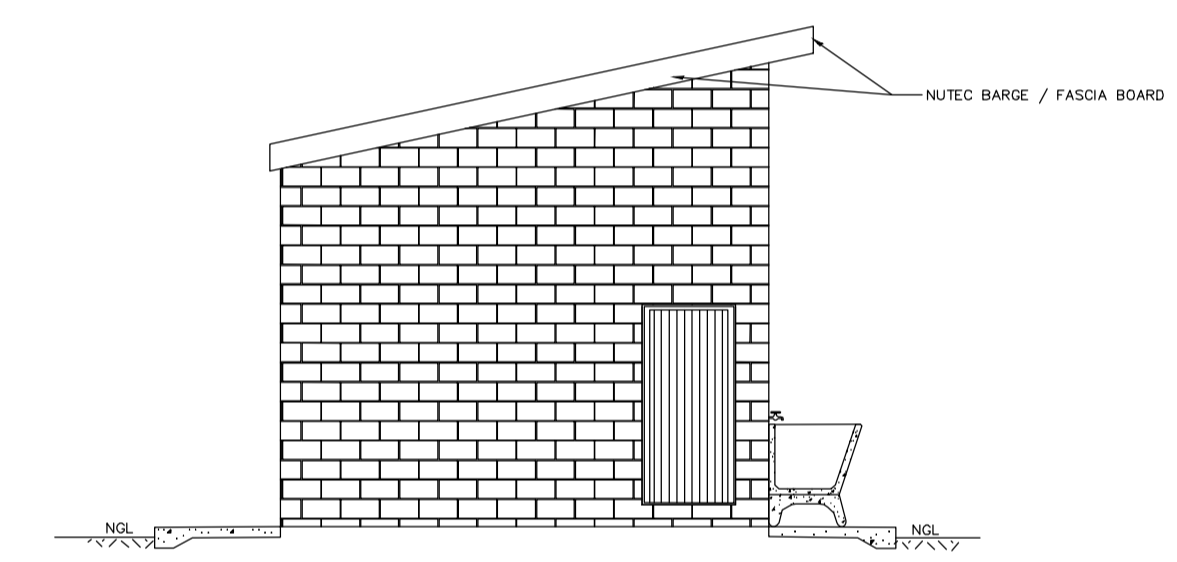


**SECTION A-A**  
SCALE 1:75

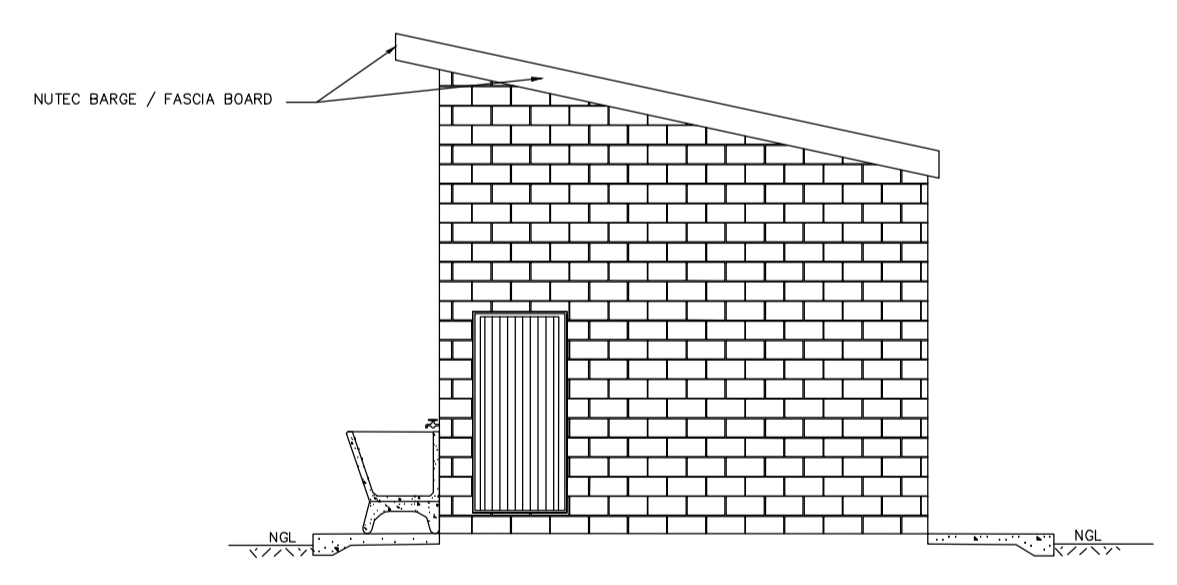
NOTE: ENVIRO LOO INSTALLATION AS PER MANUFACTURER'S SPECIFICATION AND DETAILS



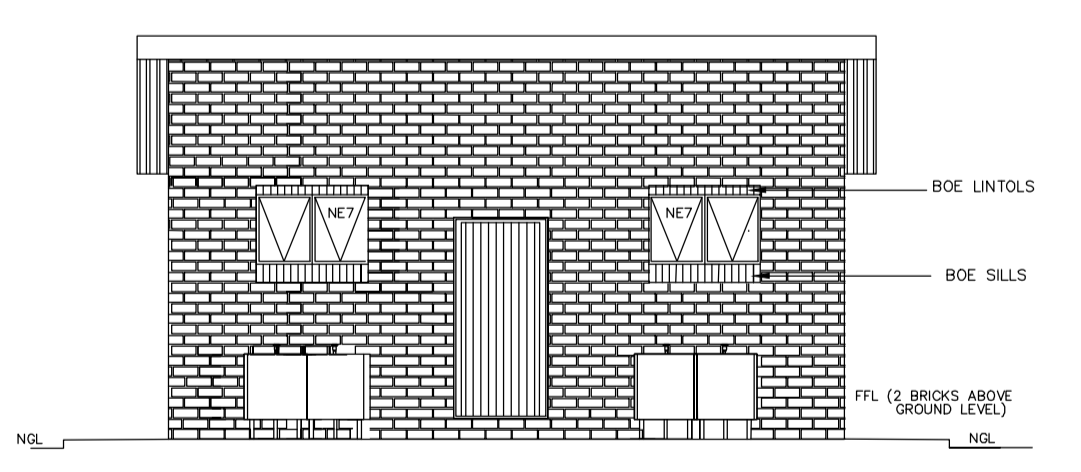
**FLOOR LAYOUT**  
SCALE 1:75



**EAST ELEVATION**  
SCALE 1:75



**WEST ELEVATION**  
SCALE 1:75



**SOUTH ELEVATION**  
SCALE 1:75

- GENERAL NOTES:**
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND SABS 0400 OF 1990
  - CONTRACTOR TO READ ONLY FIGURED DIMENSION
  - CONTRACTOR TO VERIFY ALL DIMENSION ON SITE BEFORE COMMENCING WITH ANY WORK.

- NOTES AND SPECIFICATIONS:**
- GENERAL**
- Use dimensions provided and do not scale drawing.
  - All work to comply with SANS, PW371 and SABS.
  - All dimensions, levels and positions to be verified on site prior to construction.
  - All concrete work to be as per Engineer's details and specifications.
  - All pits to face North.
  - All brickwork have brickforce at every 2nd course in pit lining and 3rd course in superstructure.
- PIT EXCAVATION**
- All stages of pit excavation to be inspected and approved by Engineer and signed off.
  - All pit lining to be inspected by EnviroLoo Services before slab casting.
- COMPACTION OF SURFACES**
- All ground surfaces receiving concrete floors / slab should be compacted to 150mm layers 93% ModAASHTO density before casting concrete.
- CONCRETE WORKS**
- All concrete to be as per Engineer's details and specifications.
  - 25 MPa strength concrete to be used throughout construction.
- Concrete Mixes: Proportions**
- Concrete Strength at 28 Days 25Mpa:  
1 : 2 : 2 (mix proportion by volume)  
1 bag cement : 0.08m<sup>3</sup> Sand : 0.09m<sup>3</sup> Stone (Volume/Bag)  
385 kg cement : 820 kg sand : 960 kg stone (Mass/m<sup>3</sup>)
- Pre-cast concrete lintols to be used as support under top slab of pit.
  - All concrete aprons to be 1000mm wide..
- MORTAR**
- Mixed proportions to be:  
1 cement : 3 sand  
(i.e.1 bag cement : 3 wheelbarrows (37 litres) sand)
- BRICKWORK**
- Sub-structure
- All pit lining / foundation brickwork to be solid NFP clay brick.
  - All internal surface of pit lining to be painted with two coats black epoxy paint installing Enviro-Loo units.
- Super-structure
- All external walls / partitions to be of clay face brick to SABS quality.
  - All cubicle partition walls to be 3 courses above door height.
  - All brickwork above door openings should have brickforce on every course to at least 3 courses.
  - Air bricks: Standard 230X152mm terra-cotta vermin proofed louvered air grating to be used above all window openings.
- ROOF SHEETING**
- 0.6mm kliplock chromadek roof sheeting.
- ROOF TIMBER / CEILING**
- All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
  - Timber connections (Hurricane Clips) are required all intercessions between timber rafters and purlins.
  - Sisalation is to be applied interval under all roof surfaces.
- METALWORK**
- All metalwork should be primed before installation.
  - All steel window should have 6x20mm flat bar burglar proofing.
- PLUMBING**
- Double concrete wash trough to be used.
  - All wash troughs should be connected to the school's water supply system and the waste water should be piped to a soakaway.
  - The soakaway should be as per Engineer's detail and position to be determined on site.
  - Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.
- GLAZING**
- 6.28mm obscure safety glass
  - Stainless steel mirrors size 350x450mm high.
- PAINTING**
- All paintwork to comply with SABS and PW371 specification.
  - All steel window and door frames including doors and fascia / barge boards to be discharge points.

NOTE: ALL EXTERNAL DOORS TO HAVE GATES

WINDOW SCHEDULE		WINDOW SCHEDULE	
WINDOW NO.	N2	WINDOW NO.	N1
CATALOGUE	NE7	CATALOGUE	NE1
FRAME	332 x 184mm HIGH STANDARD STEEL WINDOW FRAME	FRAME	332 x 184mm HIGH STANDARD STEEL WINDOW FRAME
FRAME FINISH	SPRINT PRIMING SYSTEMS IN PRE-FRAME SURFACE WITH 2CO. CHROMATE PRIMER & 2 CO. UNIVERSAL BROWN COLOUR ENAMEL PAINT ON STEEL	FRAME FINISH	SPRINT PRIMING SYSTEMS IN PRE-FRAME SURFACE WITH 2CO. CHROMATE PRIMER & 2 CO. UNIVERSAL BROWN COLOUR ENAMEL PAINT ON STEEL
GLAZING	6.28mm OBSCURE SAFETY GLASS	GLAZING	6.28mm OBSCURE SAFETY GLASS
NO. REQUIRED	2	NO. REQUIRED	4

DISABLED ENTRANCE DOOR		ENTRANCE DOOR		DOOR SCHEDULE	
FRAME TYPE	DOUBLE HEAVY STEEL FRAME TO FIT 200mm WALL (21)	FRAME TYPE	DOUBLE HEAVY STEEL FRAME TO FIT 200mm WALL (21)	DOOR NO.	SD1
FRAME FINISH	PRIME AND PAINT UNDERCOAT AND 2CO. FINISHING COATS IN GLOSS ENAMEL COLOUR TBC	FRAME FINISH	PRIME AND PAINT UNDERCOAT AND 2CO. FINISHING COATS IN GLOSS ENAMEL COLOUR TBC	CATALOGUE	SD1
DOOR LEAF	44mm FRAME LEDGED AND BRICED DOOR SIZE 1800x2100mm INCLUDING EXTERNAL WEATHER BARS	DOOR LEAF	44mm FRAME LEDGED AND BRICED DOOR SIZE 1800x2100mm INCLUDING EXTERNAL WEATHER BARS	DOOR LEAF	813 x 1814 x 44mm SEMI SOLID DOOR
LEAF FINISH	UNDER COAT AND MINIMUM 2 COATS GLOSS ENAMEL COLOUR TBC	LEAF FINISH	UNDER COAT AND MINIMUM 2 COATS GLOSS ENAMEL COLOUR TBC	LEAF FINISH	3co. SPRING GOLDEN BROWN HIGH GLOSS ENAMEL PAINT
LOOK	3 LEVER WORTICE LOOK SET	LOOK	3 LEVER WORTICE LOOK SET	LOOK	3 LEVER WORTICE LOCK STANDARDS AS PER MANUFACTURER WITH HANDLE BOLT
IRONMONGERY	100mm BRACE CABIN HOOK	IRONMONGERY	100mm BRACE CABIN HOOK	NO. REQUIRED	2

**NOTES:**

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**LEGEND:**

28.09.2023	1	ISSUED FOR TENDER	BS
DATE	NO.	REVISION / VARIATIONS	KUT

**CLIENT:**

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

**DEPARTMENT OF EDUCATION**  
CNR 113 BILLARD & 24 EXCELSIOR STREET  
POLOKWANE  
0700

**IMPLEMENTING AGENT:**

**THE MVULA TRUST**  
A leading developmental NGO

ROP 6 RHODES DRIFT OFFICE PARK  
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**KUTLO**  
CONSULTING ENGINEERS

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Fax No.: 086 674 3237  
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**PROJECT:**

**LIMPOPO DEPARTMENT OF EDUCATION**

**WATER, SANITATION AND FENCING PROGRAMME**

**TITLE:**

**LAERSKOOL BYSONDERHEID**  
FD4 (GIRLS) - WATERBORNE  
4x SEATS, 1x DISABLED

**DRAWING No.:** K1000-LB-004

SCALE:	1 : 75	DESIGNED:	BS
		DRAWN:	KN
DATE:	SEPTEMBER 2023	APPROVED:	BS
REV. NO.	1		