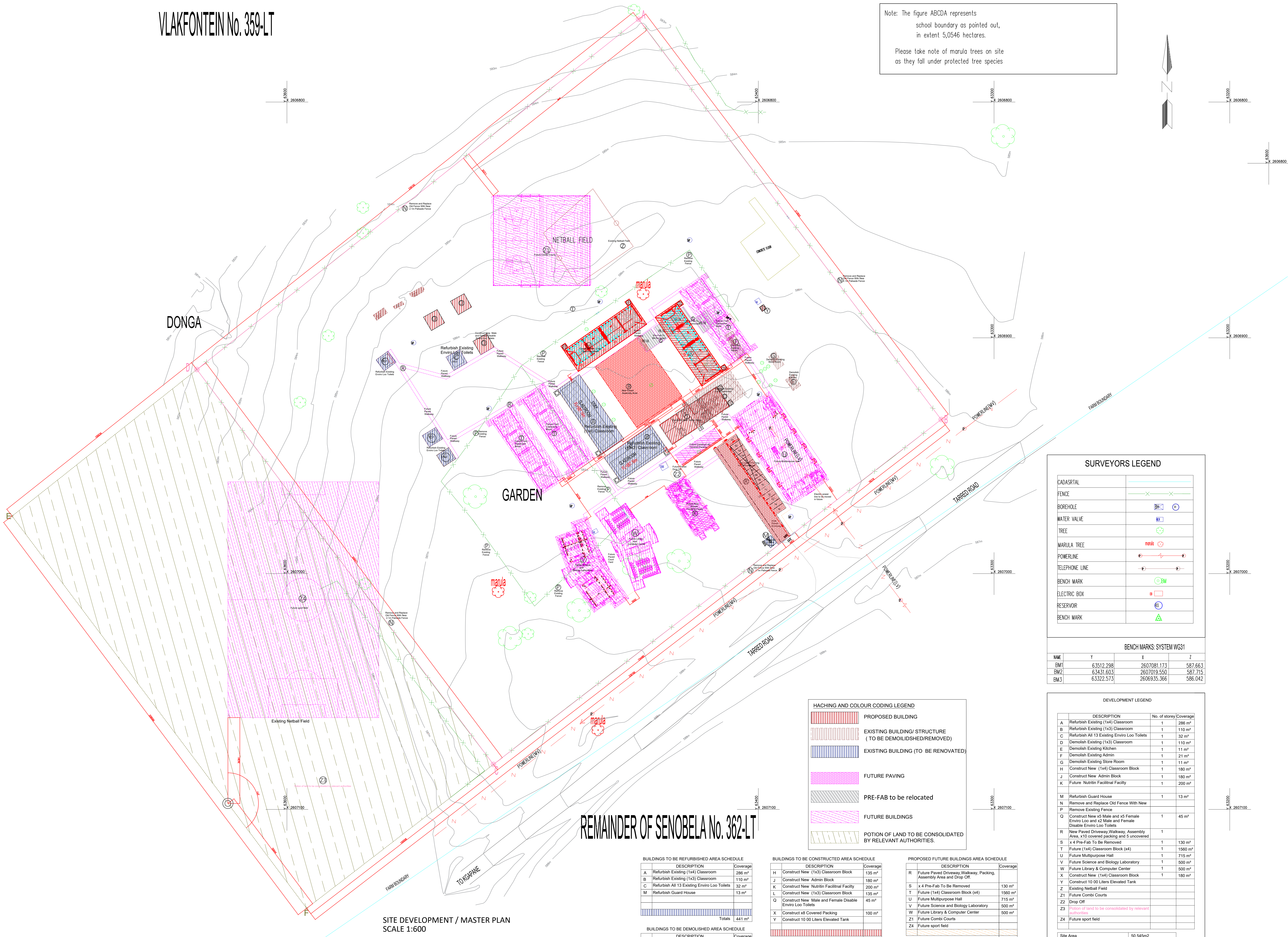


NB: MAKE ALL REFERENCES TO THE LEGENDS, DRAINAGE AND BULK WATER SUPPLY TO CIVIL ENGINEERS, FIRE PROTECTION TO MECHANICAL ENGINEERS

VLAKFONTEIN No. 359-LT



Note: The figure ABCDA represents school boundary as pointed out, in extent 5,0546 hectares.

Please take note of marula trees on site as they fall under protected tree species

SURVEYORS LEGEND	
CADASTRAL	
FENCE	
BORHOLE	
WATER VALVE	
TREE	
MARULA TREE	
POWERLINE	
TELEPHONE LINE	
BENCH MARK	
ELECTRIC BOX	
RESERVOIR	
BENCH MARK	

BENCH MARKS: SYSTEM WG31			
NAME	Y	X	Z
B.M1	63512.238	2607081.173	587.663
B.M2	63431.853	2607019.550	587.715
B.M3	63322.573	2606935.366	586.042

HACHING AND COLOUR CODING LEGEND	
	PROPOSED BUILDING
	EXISTING BUILDINGS/STRUCTURE (TO BE DEMOLISHED/REMOVED)
	EXISTING BUILDING (TO BE RENOVATED)
	FUTURE PAVING
	PRE-FAB to be relocated
	FUTURE BUILDINGS
	POTION OF LAND TO BE CONSOLIDATED BY RELEVANT AUTHORITIES.

DEVELOPMENT LEGEND		
DESCRIPTION	No. of storey	Coverage
A Refurbish Existing (1x4) Classroom	1	208 m²
B Refurbish Existing (1x3) Classroom	1	110 m²
C Refurbish All 13 Existing Enviro Loo Toilets	1	32 m²
D Demolish Existing (1x3) Classroom	1	110 m²
E Demolish Existing Kitchen	1	11 m²
F Demolish Existing Admin	1	21 m²
G Demolish Existing Store Room	1	11 m²
H Construct New (1x4) Classroom Block	1	180 m²
I Construct New Admin Block	1	180 m²
J Future Nutrition Facility	1	200 m²
M Refurbish Guard House	1	13 m²
N Remove and Replace Old Fence With New		
P Remove Existing Fence		
Q Construct New x5 Male and x5 Female Enviro Loo and x2 Male and Female Disable Enviro Loo Toilets	1	45 m²
R New Paved Driveway/Walkway/Assembly Area, x10 covered parking and 5 uncovered	1	
S x 4 Pre-Fab To Be Removed	1	130 m²
T Future (1x4) Classroom Block (x4)	1	1560 m²
U Future Multipurpose Hall	1	715 m²
V Future Science and Biology Laboratory	1	500 m²
W Future Library & Computer Center	1	500 m²
X Construct New (1x4) Classroom Block	1	180 m²
Y Construct 10 00 Liters Elevated Tank		
Z Existing Netball Field		
Z1 Future Combi Courts		
Z2 Drop Off		
Z3 Portion of land to be consolidated by relevant authorities		
Z4 Future sport field		

BUILDINGS TO BE REFURBISHED AREA SCHEDULE	
DESCRIPTION	Coverage
A Refurbish Existing (1x4) Classroom	208 m²
B Refurbish Existing (1x3) Classroom	110 m²
C Refurbish All 13 Existing Enviro Loo Toilets	32 m²
M Refurbish Guard House	13 m²
Totals	441 m²

BUILDINGS TO BE DEMOLISHED AREA SCHEDULE	
DESCRIPTION	Coverage
D Demolish Existing (1x3) Classroom	110 m²
E Demolish Existing Kitchen	11 m²
F Demolish Existing Admin	21 m²
G Demolish Existing Store Room	11 m²
Totals	153 m²

BUILDINGS TO BE CONSTRUCTED AREA SCHEDULE	
DESCRIPTION	Coverage
H Construct New (1x3) Classroom Block	135 m²
J Construct New Admin Block	180 m²
K Construct New Nutrition Facility	200 m²
L Construct New (1x3) Classroom Block	135 m²
Q Construct New Male and Female Disable Enviro Loo Toilets	45 m²
X Construct x8 Covered Packing	100 m²
Y Construct 10 00 Liters Elevated Tank	
Totals	795 m²

CURRENT PROPOSED BUILT AREA SCHEDULE	
DESCRIPTION	Coverage
BUILDINGS TO BE REFURBISHED	441 m²
BUILDINGS TO BE CONSTRUCTED	795 m²
Totals	1236 m²

PROPOSED FUTURE BUILDINGS AREA SCHEDULE	
DESCRIPTION	Coverage
R Future Paved Driveway/Walkway, Parking, Assembly Area and Drop Off	
S x 4 Pre-Fab To Be Removed	130 m²
T Future (1x4) Classroom Block (x4)	1560 m²
U Future Multipurpose Hall	715 m²
V Future Science and Biology Laboratory	500 m²
W Future Library & Computer Center	500 m²
Z1 Future Combi Courts	
Z2 Drop Off	
Z3 Portion of land to be consolidated by relevant authorities	
Z4 Future sport field	
Totals	3405 m²

FUTURE PROPOSED BUILDINGS AREA SCHEDULE	
DESCRIPTION	Coverage
CURRENT PROPOSED BUILDING AREA	1236 m²
PROPOSED FUTURE BUILDINGS AREA	3405 m²
Totals	4641 m²

Site Area	50 545m2
Portion of land to be consolidated	20 876m2
Portion of land to be consolidated (Permitted)	71 421m2
Coverage	m2
Occupancy Class	A3 (School)
Parking Ratio	1/1,1m2
Height Restriction	
Zoning	
Arbitrage	

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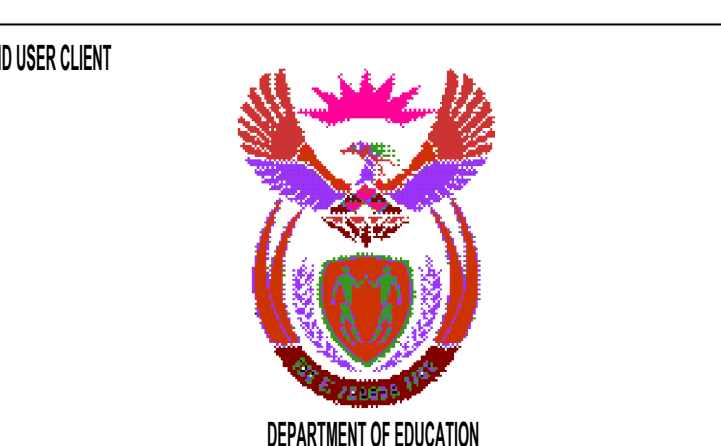
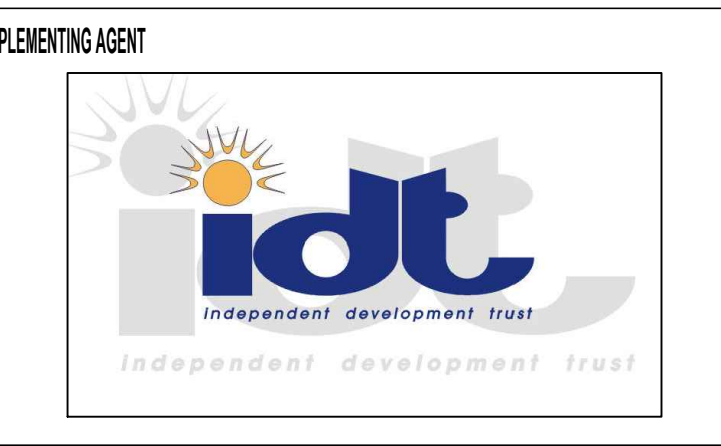
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PROJECT
MOLAI JUBILEE SECONDARY SCHOOL

SITE DEVELOPMENT / MASTER PLAN

ISSUED FOR		UITGEEK VIR		PRELIMINARY		INFORMATION		TENDER-CONTRACT		MEASUREMENT		CONSTRUCTION		APPROVAL		DATE	
				VOORLOPIG		INLIGTING		TENDER-KONTRAK		MEETWERK		KONSTRUKSIE		GOEDKEURING		DATUM	
																SIGNATURE	
																HANDTEKENING	

PROJECT NO. VC-L19-02

DESIGNING NO. VC-L19-02-MJS-000-01

REVISIONS NO. 00

SCALE: 1:600

PAGE SIZE: A3

DATE: 2024/08/01

SETTER: D. VAN DER MERWE

CHECKED: D. VAN DER MERWE

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VLAKFONTEIN No. 359-LT

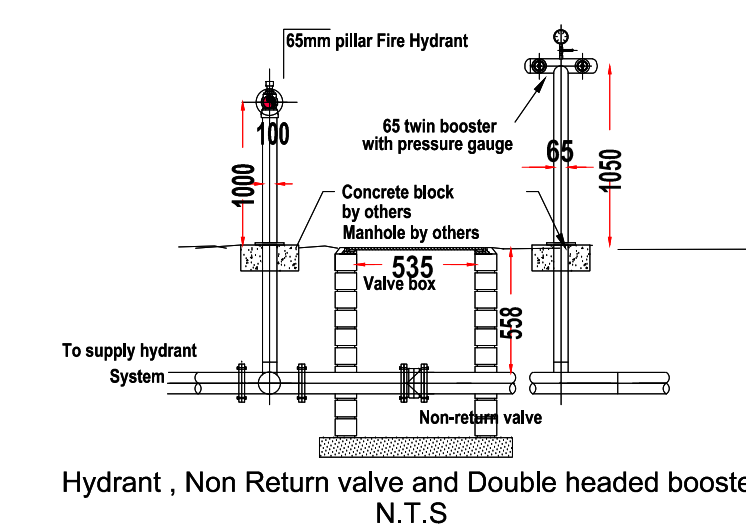
REMAINDER OF SENOBELA No. 362-LT

SITE DEVELOPMENT / MASTER PLAN
SCALE 1:600

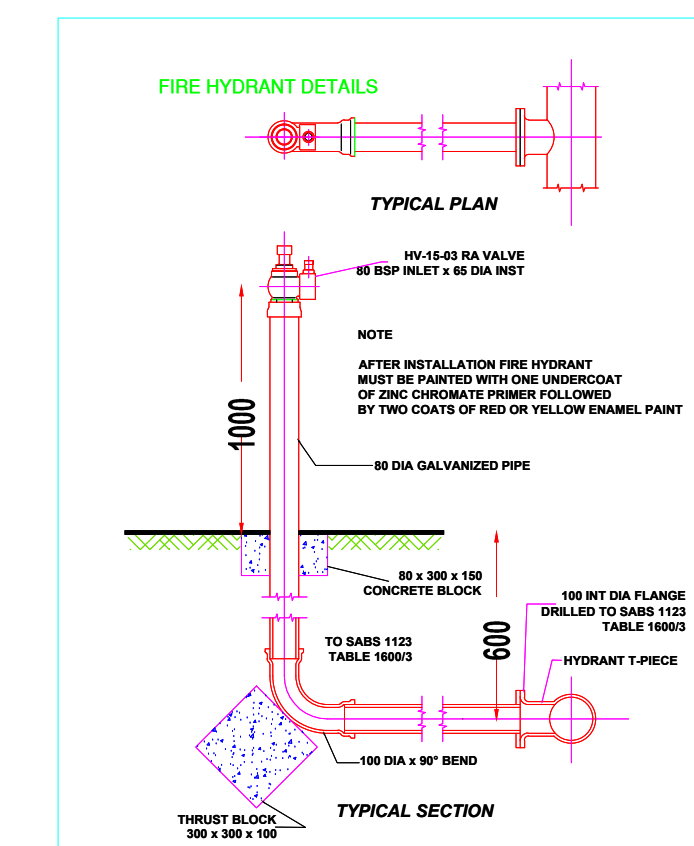
LEGEND	
SYMBOL	NAME
	COLD WATER PIPELINE
	FIRE PIPE RETICULATION
	SEWER PIPE
	FIRE HYDRANT
	FIRE EXTINGUISHER
	FIRE HORSE REEL
	ASSEMBLY POINT

NOTES:

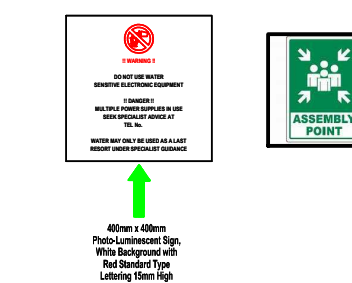
1. ALL PLUMBING WORKS TO BE DONE BY A REGISTERED PLUMBER & THE CERTIFICATE IS TO BE ISSUED
2. ALL INTERNAL COLD & HOT WATER PIPING TO BE SANS 460 CLASS 1 COPPER TYPE
3. DOMESTIC COLD WATER PIPE TO BE HDPE OUTSIDE THE BUILDING, WHICH IS TO CHANGE TO COPPER AS IT ENTERS THE BUILDING.
4. ALL THE MAIN BRANCHING PIPES ARE TO BE Ø25 mm AND ALL THE TAKE OFFS TO BE Ø15mm
5. ALL EXTERNAL WATER PIPING (DOMESTIC & FIRE) SHALL BE ATLEAST 600mm BELOW THE NGL.



Fire Equipment Amounts:
65mm Pillar Type Fire Hydrant -6
Non-return Valve -
Double Headed Booster Connection - 1



Signage Legend:



DIE ONTWERP OP HIERDIE
TEKENING BLY DIE EIENDOM
VAN DIE ARCHITEKTE
KOPIEERIG VOORBEHOUD

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Nedbank Building
Polokwane
0700
Limpopo

PROJEN/PROJECT	
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MOLAI JUBILEE SECONDARY
SCHOOL

SITE FIRE PROTECTION AND WATER RETICULATION PLAN

ISSUED FOR UITGEEK VIR	PRELIMINARY VOORLOP	INFORMATION INFORMATIE	TENDER-CONTRACT TENDER-KONTRAKT	MEASUREMENT METEERK	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDKEURING	DATE DATUM
							SIGNATURE HANDTEKENING
PROJECT No. PROJECT No.	DRAWING No. TEKENING No.				REVISION No. WYSIGINGS No.		
VC-L19-02	VC-L19-02-MJS-000-02				00		

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1:600	A0	01/2019	X.I THOMBA	N.L BREMBE

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VLAKFONTEIN No. 359-LT

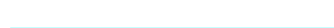
Note: The figure ABCDA represents school boundary as pointed out, in extent 5,0546 hectares.

Please take note of marula trees on site as they fall under protected tree species

SITE DEVELOPMENT / MASTER PLAN
SCALE 1:600

REMAINDER OF SENOBELA No. 362-LT

Legend

	WATER CHANEL
	V-DRAIN
	FALL DIRECTION
	BERM

DIE ONTWERP OP HIERDIE
TEKENING BLY DIE EIENDOM
VAN DIE ARQITEKTE
KOPIEREG VOORBEHOUD

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REVISIONS			
REV. NO.	DATE	DRAWN	DESCRIPTION

Sl. No.	QTY	UNIT	AMOUNT

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PROJECT	PROJECT
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MOLAI JUBILEE SECONDARY
SCHOOL

SITE STORM WATER MANAGEMENT
SITE PLAN

ISSUED FOR UITGEERK VIR	PRELIMINARY VOORLOFPG	INFORMATION INLIGTING	TENDER-CONTRACT TEINDER-KONTRAK	MEASUREMENT METEERING	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDGEKURING	DATE DATUM
							SIGNATURE HANDTEKENING
PROJECT N°: PROJECT N°	TEKENING N°: DRAWING N°				WYSINGS N°: REVISION N°		
VC-L19-02	VC-L19-02-MJS-000-03				00		

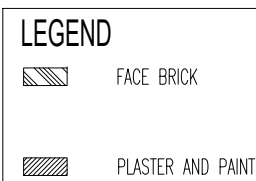
SKAAL/SCALE	PAGE SIZE	DATUM/DATE	GETEKEN/DRAWN	NAGESIEN/CHKD
1:600	A4	01/2019	XI THOMBA	N.L. BHEMBE



	W3 - CAT. NO.	2. STANDARD MID STEEL, STEEL-TO-HP HUNG OPEN TO WINDOW-FRAMES - CAT SHE#14 COMPLETE WITH BURG-LAR-PROOFING OUT OF 10mm DIA. SILD ROUND-BARS.
GLAZING		5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
FINISH		PUTTY TO RECEASE PANTY TO MATCH WINDOW FRAME
		CLEAN WITH STEEL BRUSH, BRUSH OFF SILD ROUND-BARS.
		1. UNUSUAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHT.
No. of WINDOWS	W2 - CAT. NO.	14. (FOURTEEN)
		2. STANDARD MID STEEL, STEEL-TO-HP HUNG OPEN TO WINDOW-FRAMES - CAT SHE#14 COMPLETE WITH BURG-LAR-PROOFING OUT OF 10mm DIA. SILD ROUND-BARS.
GLAZING		5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
FINISH		PUTTY TO RECEASE PANTY TO MATCH WINDOW FRAME
		CLEAN WITH STEEL BRUSH, BRUSH OFF SILD ROUND-BARS.
		1. UNUSUAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHT.
No. of WINDOWS	W3 - CAT. NO.	2. (ONE)
		2. STANDARD MID STEEL, STEEL-TO-HP HUNG OPEN TO WINDOW-FRAMES - CAT SHE#15 COMPLETE WITH BURG-LAR-PROOFING OUT OF 10mm DIA. SILD ROUND-BARS.
GLAZING		5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
FINISH		PUTTY TO RECEASE PANTY TO MATCH WINDOW FRAME
		CLEAN WITH STEEL BRUSH, BRUSH OFF SILD ROUND-BARS.
		1. UNUSUAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHT.
No. of WINDOWS	W4 - CAT. NO.	2. (THREE)
		2. STANDARD MID STEEL, STEEL-TO-HP HUNG OPEN TO WINDOW-FRAMES - CAT SHE#15 COMPLETE WITH BURG-LAR-PROOFING OUT OF 10mm DIA. SILD ROUND-BARS.
GLAZING		5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
FINISH		PUTTY TO RECEASE PANTY TO MATCH WINDOW FRAME
		CLEAN WITH STEEL BRUSH, BRUSH OFF SILD ROUND-BARS.
		1. UNUSUAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHT.
No. of WINDOWS	W5 - PURPOSED MADE	15. (ONE)
		EXTRUDED ALUMINIUM PROPOSED MADE FRAME ACCORDING TO AMSA SIZE: 1625x4 x 1300H
GLAZING		6mm CLEAR FLOAT SHEET GLAZING SECURED IN FRAME WITH NATURAL ANODISED ALUMINIUM FINISH.
FINISH		TO MANUFACTURERS SPECIFICATIONS
No. of WINDOWS	W6 - PURPOSED MADE	16. (ONE)
		EXTRUDED ALUMINIUM PROPOSED MADE FRAME ACCORDING TO AMSA SIZE: 1625x4 x 1300H
GLAZING		6mm CLEAR FLOAT SHEET GLAZING SECURED IN FRAME WITH NATURAL ANODISED ALUMINIUM FINISH.
FINISH		TO MANUFACTURERS SPECIFICATIONS
No. of WINDOWS	W7 - PURPOSED MADE	17. (ONE)
		EXTRUDED ALUMINIUM PROPOSED MADE FRAME ACCORDING TO AMSA SIZE: 1625x4 x 1300H
GLAZING		6mm CLEAR FLOAT SHEET GLAZING SECURED IN FRAME WITH NATURAL ANODISED ALUMINIUM FINISH.
FINISH		TO MANUFACTURERS SPECIFICATIONS
No. of WINDOWS	W8 - CAT. NO.	18. (ONE)
		2. STANDARD MID STEEL, STEEL-TO-HP HUNG OPEN TO WINDOW-FRAMES - CAT SHE#15/SHE#15 COMPLETE WITH BURG-LAR-PROOFING OUT OF 10mm DIA. SILD ROUND-BARS.
GLAZING		5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
FINISH		PUTTY TO RECEASE PANTY TO MATCH WINDOW FRAME
		CLEAN WITH STEEL BRUSH, BRUSH OFF SILD ROUND-BARS.
		1. UNUSUAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHT.

FURNITURE NOTES:

- **STATIONERY STORE**
 - 4 Rows 450mm wide x 16mm thick melamine shelving on wall bands and brackets at 600mm centres.
- **KITCHEN**
 - Floor cabinets on levelers with Formica worktops over, complete with aluminium skirting. Price inclusive of drop-in sink.
- **RECEPTION / CLERK OFFICE**
 - 5 200mm long x 600mm wide x 32mm thick Formica worktop on powder coated steel brackets, including 1 x F4503 drawer unit.
- **PRINCIPAL'S OFFICE**
 - 5 300mm long storage cupboard on levelers. 32mm thick Formica worktop over.
- **VICE PRINCIPAL'S OFFICE**
 - 2 400mm long storage cupboard on levelers. 32mm thick Formica worktop over.
- **STRONG ROOM**
 - 4 Rows 300mm wide x 16mm thick melamine shelving on wall bands and brackets at 600mm centres.
- **PRINT ROOM**
 - 2 600mm long x 600mm wide x 32mm thick Formica worktop over floor cabinets.



DIE ONTWERP OP HIERDIE
TEKENING BLY DIE EIENDOM
VAN DIE ARGITEKTE
KOPIEREG VOORBEHOU

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DEPARTMENT OF EDUCATION

PRINCIPAL AGENT



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 0700
 Limpopo

PROJEK/PROJEC

Molai Jubilee Secondary School

DRAWING

ADMIN BLOCK : FLOOR PLAN AND ELEVATIONS.

ISSUED FOR UITGELEK VIR		PRELIMINARY VOORLOPIG	INFORMATION INLICHTING	TENDER-CONTRACT TENDER-CONTRAK	MEASUREMENT METTING	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDKEURING	SIGNATURE HANDTEKENING	DATE DATUM
PROJECT Nr./PROJECT No.		TEKENING Nr. DRAWING No.		DESIGNATION REVISION No.		00			
VC-L19-02		VC-L19-02-MAD-100-01							

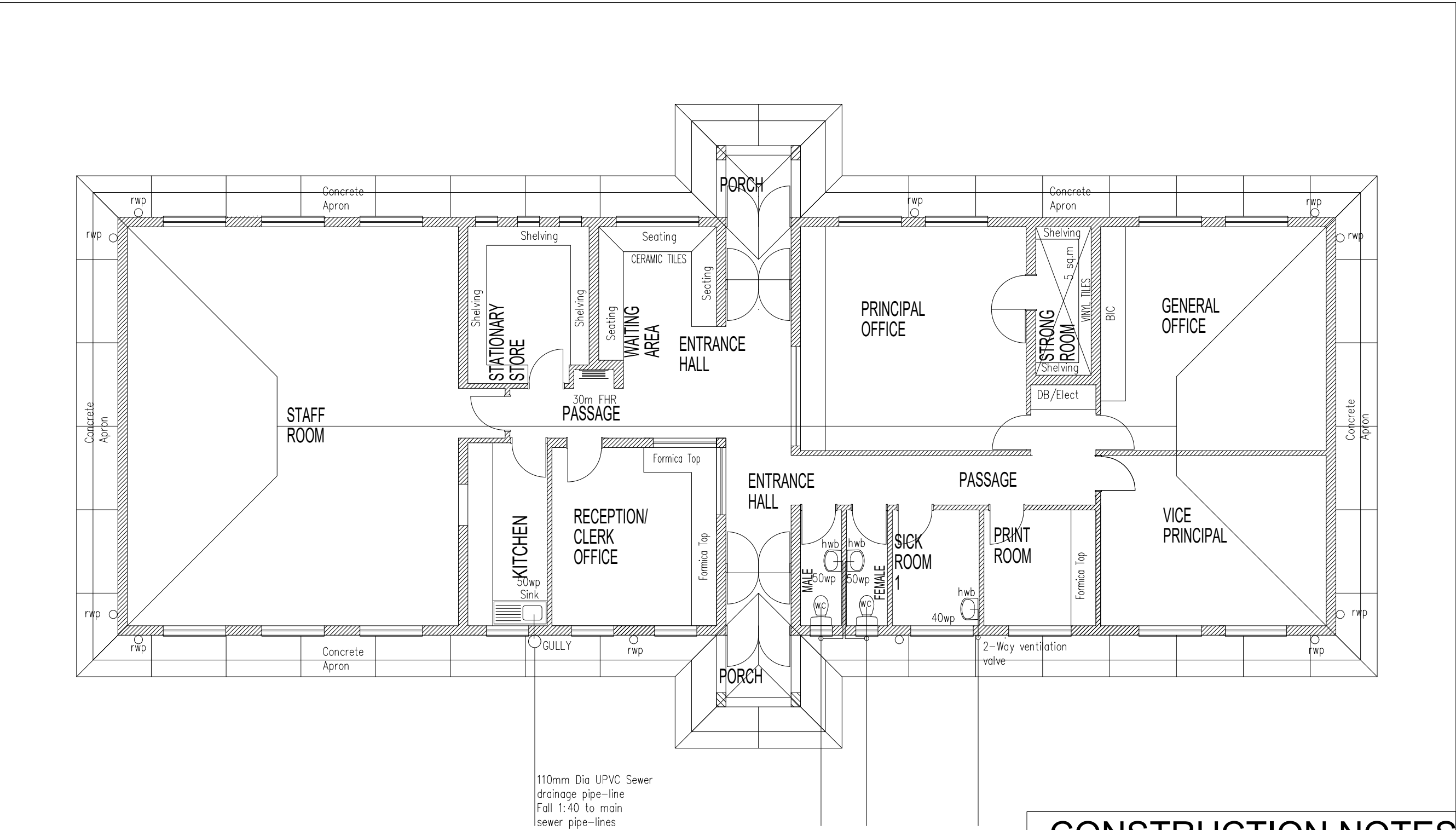
PHASE/STAGE WORKING DRAWINGS

SKALA/SCALE	DATUM/DATE	GE
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1:100	01/2019
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01/2015	
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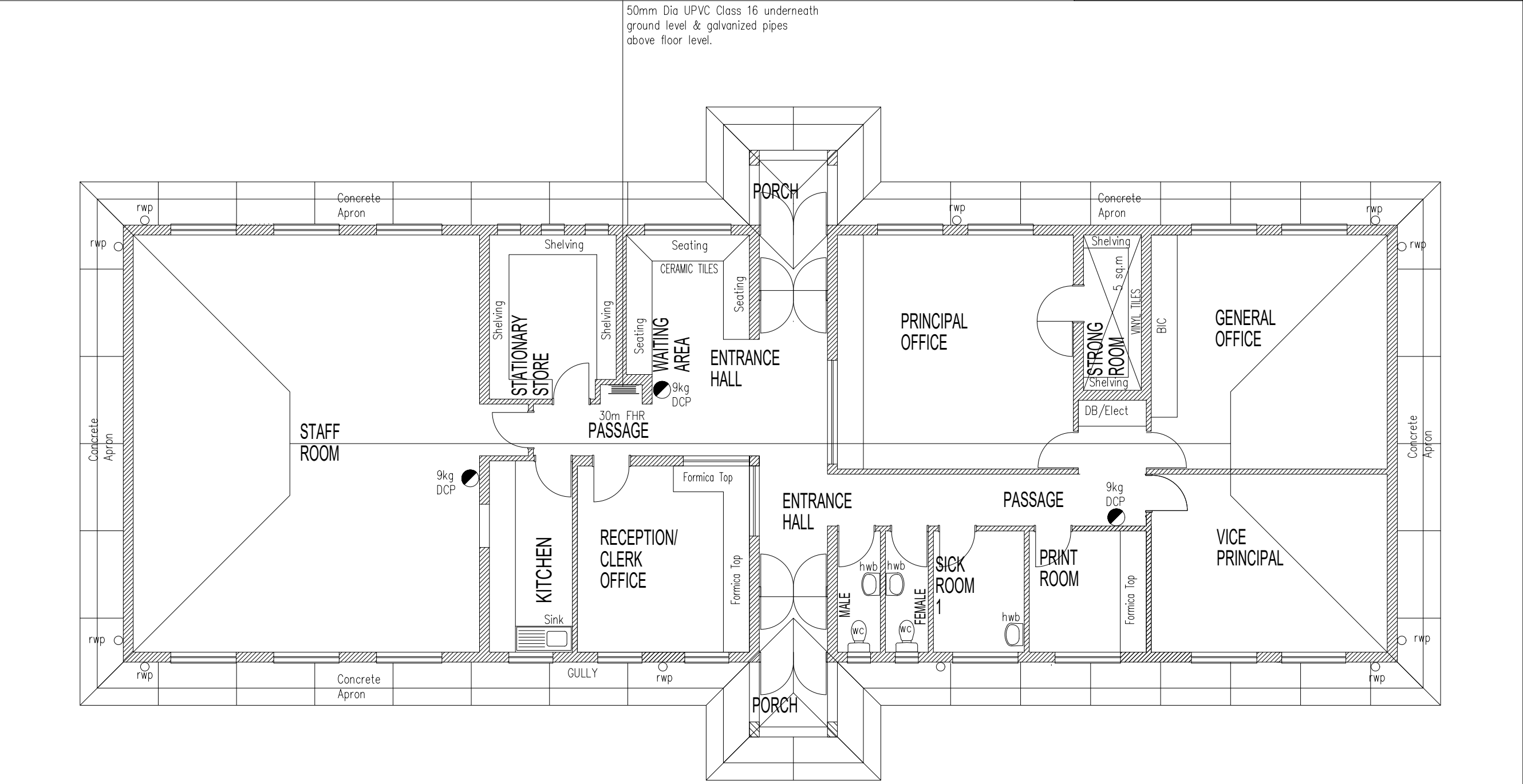
**GROUND FLOOR PLAN:
NEW ADMIN BUILDING:
Scale 1:100.**



**GROUND FLOOR PLAN:
SEWER DRAINAGE LAYOUT:
NEW ADMIN BUILDING:
Scale 1:100.**

CONSTRUCTION NOTES

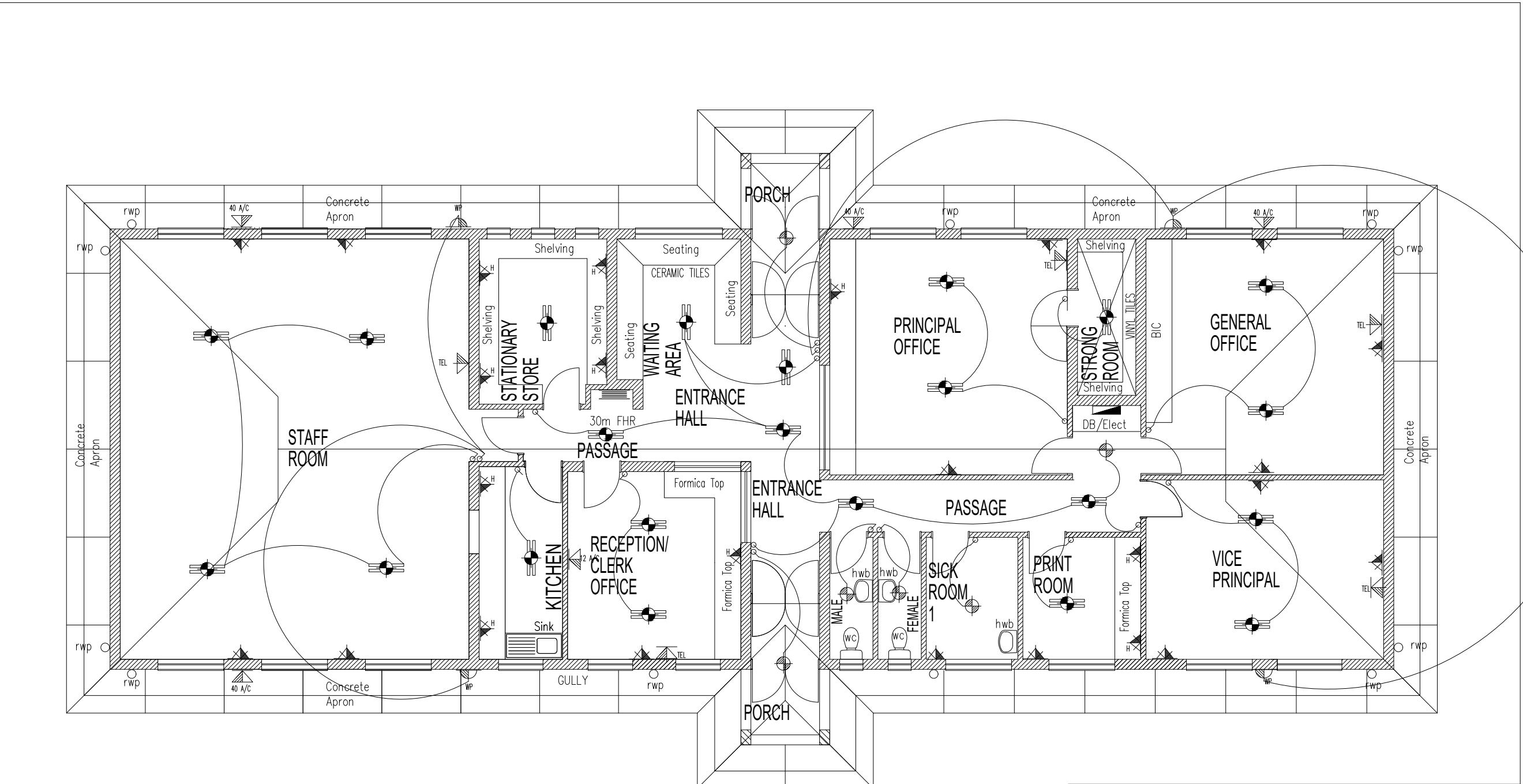
Foundations:
A1. STRIP FOUNDATIONS – 700x250mm 15Mpa CONCRETE STRIP FOUNDATION. TOP OF FOUNDATION TO BE MIN 340mm BELOW N.G.L.
A2. FILLING – APPROVED HARDWARE FILLING COMPACTED IN LAYERS OF MAX. 150mm. FILLING TO BE TREATED WITH SABS APPROVED INSECTICIDE AND WEED KILLER TO COMPLY WITH SABS 1164 & 1165.
Surfacebeds & floors:
B1. SURFACEBED – 85mm THICK 15Mpa CONCRETE SURFACEBED ON USB GREEN 250 MICRON DAMP PROOF MEMBRANE, SURFACEBED CAST IN SECTIONS OF MAX. 200mm.
B2. SCREED & FLOOR FINISH – “Marky Super Mator” 25mm THICK FULLY FLEXIBLE VINYL FLOOR SHEETING ON 1:4 SMOOTH CEMENT SAND SCREED TO A TOTAL THICKNESS OF 30mm. ALL LAD AND FINISHED STRICTLY TO MANUFACTURERS SPEC.
B3. SCREED & FLOOR FINISH – 30mm 1:4 CEMENT SAND SCREED TO RECEIVE “Marky” 2mm THICK FULLY FLEXIBLE VINYL ASBESTOS FLOOR TILES, LAD STRICTLY TO MANUFACTURERS SPEC.
B4. APRON – 1200mm WIDE 15Mpa CONCRETE APRON WITH WOOD FLOAT FINISH. APRON TO BE CAST IN LENGTHS OF MAX. 3m & TO HAVE A 1:100 FALL AWAY FROM BUILDING.



**GROUND FLOOR PLAN:
FIRE EQUIPMENT & WATER:
NEW ADMIN BUILDING:
Scale 1:100.**

NOTE:
ALL FIRE ESCAPE SIGNAGE ACCORDING TO SABS STANDARDS 150 x 150mm

Window Sills:
E1. INTERNAL WINDOW CILL – 15mm THICK FIBRE CEMENT WINDOW SILL BEDDED IN 1:4 CEMENT SAND MORTAR. SAND & APPLY ALKALI RESISTANT SEALER AND TWO COATS WHITE EMULSION PAINT.
E2. EXTERNAL WINDOW CILL – APPROVED FACEBRICK ON EDGE, TO MATCH WALLS. JOINTS TO BE SQUARE & RECESSED.
Ceiling & Cornice:
F1. CORNICE – 75mm DEPTH COVED CORNICE NAILED TO WALL AND CEILING AT 450mm CENTRES MAX. AND TO RECEIVE PAINT FINISH TO MATCH CEILING.
F2. CEILING – 6mm CLAD FIBRE CEMENT CEILING NAILED TO 38x28mm S&P BATTENS AT MAX. 400mm C/C WITH GALVANISED CLOUT NAILS. PROVIDE GALVANISED H-PROFILE JOINTING STRIPS TO BE PAINTED. PREPARE AND APPLY 1 UNIVERSAL UNDERCOAT & TWO COATS PLYCON POLYN ACrylic PAINT.

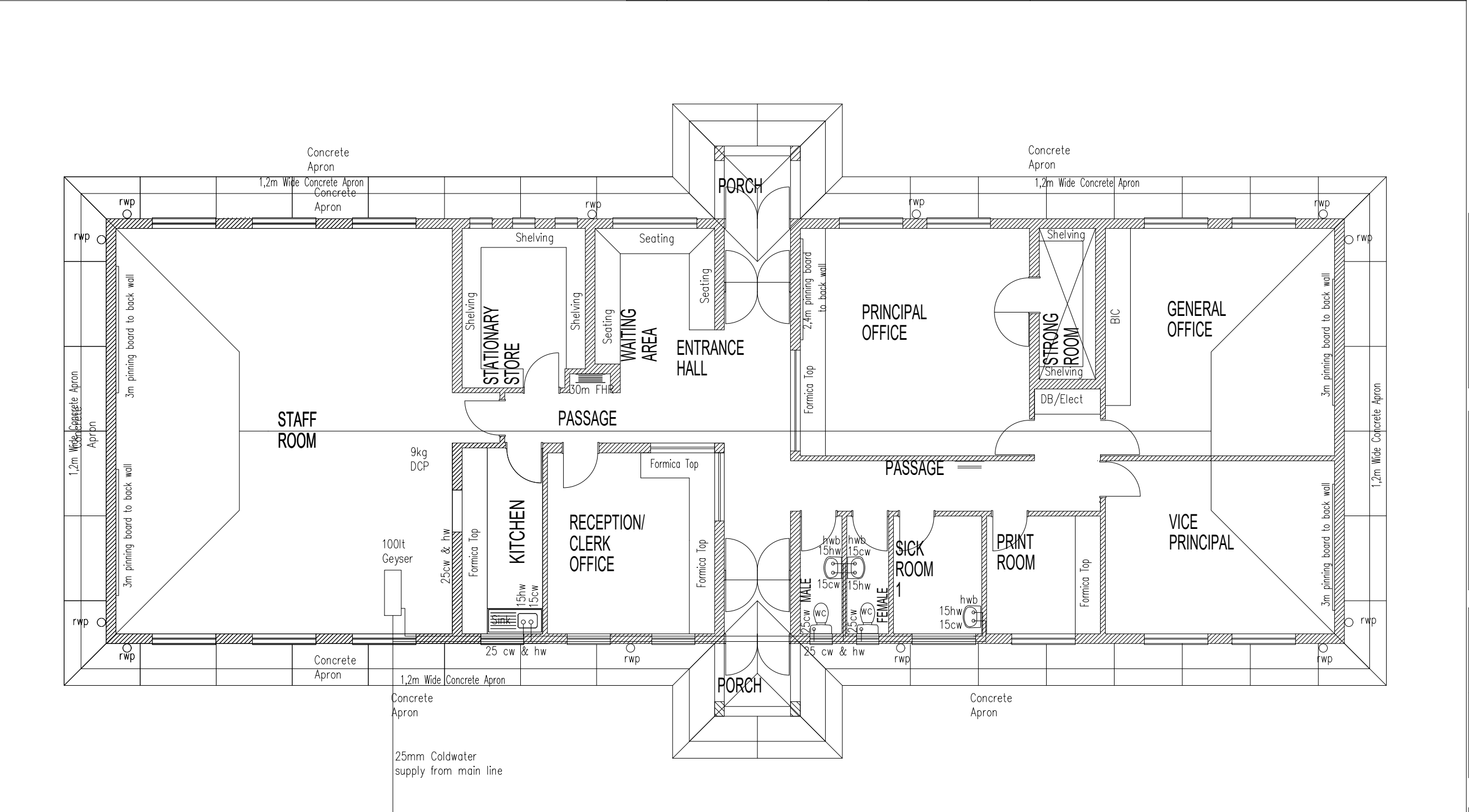


**GROUND FLOOR PLAN:
ELECTRICAL LAYOUT:
NEW ADMIN BUILDING:
Scale 1:100.**

ELECTRICAL LEGEND

CEILING LIGHT FITTING	15 AMP DOUBLE PLUG BUILT IN 340mm ABOVE FFL
DECORATIVE WALL LIGHT FITTING	15 AMP DOUBLE PLUG POINT BUILT IN 1000mm ABOVE FFL
DECORATIVE WATERPROOF EXTERNAL WALL MOUNTED LIGHT FITTING	TELEPHONE POINT
DOUBLE TUBE FLUO FITTING FLUORESCENT LIGHT COMPLETE WITH DIFFUSER	12 AMP ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING
DISTRIBUTION BOARD & PRE PAID METERBOX	40 AMP ISOLATOR FOR A/C UNIT MOUNTED 500mm BELOW ROOFS EAVE
	LIGHT SWITCH

Skirtings:
C1. SKIRTING – 70mm HIGH “MARLEY” RIDGED PVC SKIRTING SCREWED AND PLUGE TO WALL AT 450mm C/C.
Walls & Structure:
D1. EXTERNAL WALLS – APPROVED FACEBRICK WALLS IN STRETCHER BOND TO RECEIVE 10mm WIDE x 6mm DEEP SQUARE RECESSED JOINTS IN BOTH DIRECTIONS.
D2. BRICKFORCE: BRICKFORCE TO 230 AND 115 WALLS FOUNDATION WALLS – EVERY 2ND COURSE, SUPERSTRUCTURE – EVERY 4TH COURSE, OVER OPENINGS FORMED IN BRICKWORK, EVERY COURSE FOR 4 COURSES EXTENDING 500mm BEYOND OPENING IN BOTH DIRECTIONS.
D3. 226x76mm S&P BEAM TO BE BUILT IN & TIED DOWN TO FACEBRICK COLUMNS WITH 2.5mm GALVANISED WIRE TIES. BEAM TO BE CRESSOTE TREATED PRIOR TO BEING BUILT IN.
D4. LINTOL – APPROVED FACEBRICK ON EDGE LINTOL OVER ALL WINDOW & DOOR OPENINGS. BRICKWORK TO RECEIVE 106mm SQUARE RECESSED JOINTS.
D5. D.P.C. – PROVIDE 375 MICRON EPIC IN WALLS AT FLOOR LEVEL & UNDER ALL EXTERNAL WINDOW CILLS.
D6. INTERNAL WALLS – APPROVED STOCKBRICK WALLS IN STRETCHER BOND TO RECEIVE 1 x COAT SMOOTH 1:5 CEMENT SAND PLASTER TO RECEIVE 14MERT UNIVERSAL UNDERCOAT AND TWO COATS PLYCON POLYN SUPER ACRYLIC PVA. COLOUR AS PER ARCHITECT.
D7. WALL TILES – PROVIDE STANDARD 150x150mm WHITE GLAZED WALL TILES FROM FLOOR TO TOP OF WINDOW HEIGHT(2295mm). TILES TO BE LAD WITH MANUFACTURERS APPROVED TILING ADHESIVE, AND WHITE TILING GROUT.



**GROUND FLOOR PLAN:
WATER RETICULATION:
NEW ADMIN BUILDING:
Scale 1:100.**

Roof & Fascia:
G1. ROOF SHEETING – 0.6mm “ALUPLOK” ROOF SHEETING IN CHROMADEL FINISH ON 76x20mm S&P PURLINS AT MAX. 1200mm C/C ON PATENT & APPROVED PRE-FABRICATED ROOF TRUSS SYSTEM.
G2. RIDGE CAPPING – STANDARD FACTORY MANUFACTURED RIDGES AND FLASHINGS IN FINISH TO MATCH ROOF COVERING.
G3. FASCIA – 25x100mm THICK FC77 PRESSED FIBRE CEMENT FASCIA, SCREW FIXED TO TRUSS ENDS & COUNTER BATTEN WITH COUNTERSUNK BRASS SCREWS. PREPARE & APPLY ONE UNIVERSAL UNDERCOAT & TWO COATS PLYCON POLYN SUPER ACRYLIC PVA PAINT.
G4. TRUSS SYSTEM: TIMBER PATENT & APPROVED PRE-FABRICATED SYSTEM AT 1200mm C/C MAX. PURLINS 50 x 75mm SA PINE AT 1400mm C/C MAX. WALL PLATE 114 x 38mm SA PINE TO BE CRESSOTE TREATED BEFORE FIXING. CERTIFICATE & GUARANTEE FOR DESIGN & ERECTION TO BE SUPPLIED BY TRUSS MANUFACTURER. ALL EXPOSED TIMBER SECTIONS AS WELL AS SECTIONS IN CONTACT WITH WET TRACES TO BE CRESSOTE TREATED BEFORE FIXING. INFO POSITION: TRUSS TO BE SECURED TO WALLS AT WALL PLATE WITH 2.5mm GALV. STEEL WIRE TIES, BUILT INTO WALLS MIN 6 BRICK COURSES.

DIE ONTWERP OP HERDE TEKENING BLIJF DE EIGENDOM VAN DE ARCHITECTE KOPPELDE VOORBEHOUD

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REV. NO.	DATE	DRAWN	DESCRIPTION

IMPLEMENTING AGENT


independent development trust

END USER CLIENT


DEPARTMENT OF EDUCATION

PRINCIPAL AGENT


rendeals four consulting
Empowering inspirational change

ARCHITECTS

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Gauteng

PROJECT/PROJECT

Molai Jubilee Secondary School

DRAWING

ADMIN BLOCK : ELECTRICAL FIRE, SEWER, EQUIPMENT AND WATER RETICULATION.

ISSUED FOR	PRELIMINARY	INFORMATION	TENDER-CONTRACT	MEASUREMENT	CONSTRUCTION	APPROVAL	SIGNATURE	DATE
UTTCERIK VIR	VOORLOF	INLEIDING	TENDER-KONTRAK	MEETINGS	KONSTRUKSIE	GOEDKEURING	HANDTEKENING	DATUM
VC-L19-02								

PROJ. NO./PROJECT NO.

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DRAWING N.:

TEKENING N.:

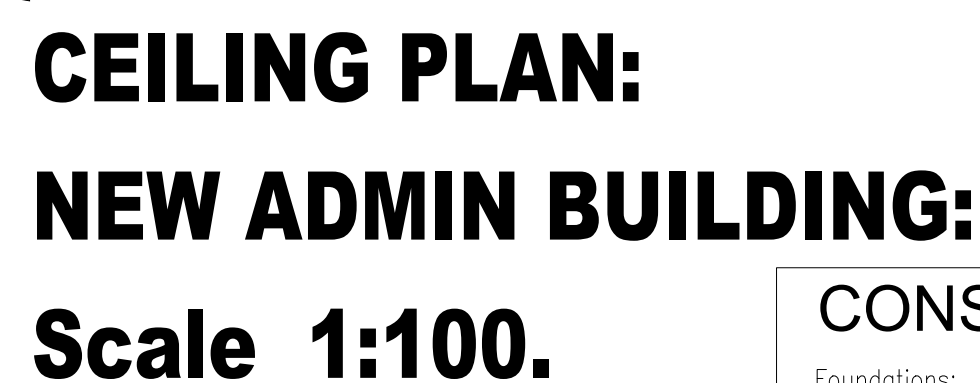
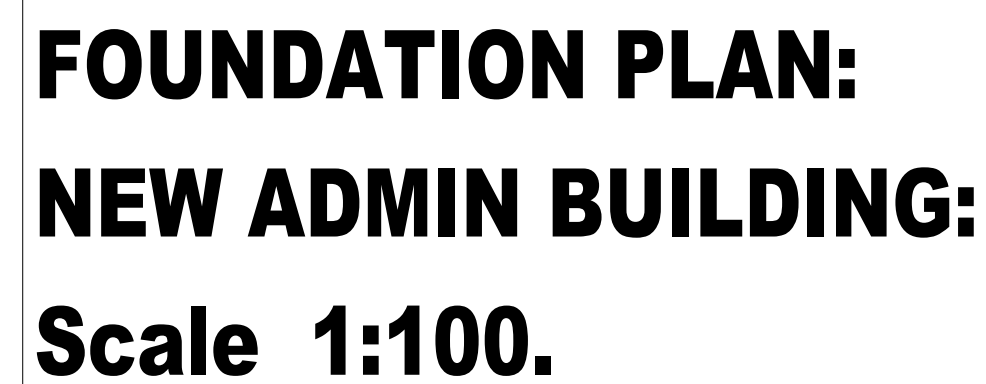
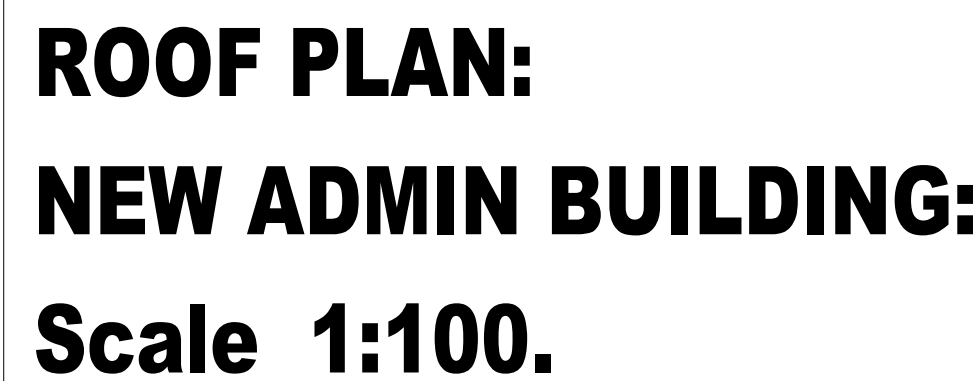
REVISION N.:

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FASE/STAGE

WORKING DRAWINGS

SKAAL/SCALE	DATUM/DATE	GETEKEN/DRAWN	NAEKSIE/CHECKED
1:100	01/2019	XI THEMBA	NLI BHEMVE



Foundations:

- 1. STRIP FOUNDATIONS – 700x250mm 15Mpa CONCRETE STRIP FOUNDATION.
TOP OF FOUNDATION TO BE MIN 340mm BELOW N.G.L.
- 2. FILLING – APPROVED HARDCORE FILLING COMPACTED IN LAYERS OF MAX. 150mm. FILLING TO BE COMPLETED WITH S&S APPROVED INSECTICIDE AND WEED KILLER TO COMPLY WITH S&S 1164 & 1165.

Surfacedecks & floors:

- 1. SURFACEDECK – 85mm THICK 15Mpa CONCRETE SURFACEDECK ON URS GREEN 250 MEDIUM DRAIN PORE MEMBRANE. SURFACEDECK CAST IN SECTIONS OF MAX. 200mm
- 2. SCREED & FLOOR FINISH – “Norsky Super Mix” 30mm THICK FLY ASH FLY ASH FLOOR FINISH TO 1/4 SMOOTH CEMENT SAND SCREED TO A TOTAL THICKNESS OF 30mm. ALL L&D AND FINISHED STRIPT TO MANUFACTURERS SPEC.
- 3. SCREED & FLOOR FINISH – 30mm 1:4 CEMENT SAND SCREED TO RECEIVE “Norsky” 2mm THICK FLY ASH FLY ASH ASBESTOS FLOOR FINISH, L&D FINISH TO MANUFACTURERS SPEC.
- 4. ASPON – 1200mm wide 15Mpa CONCRETE ASPON WITH WOOD FLAT FINISH ASPON TO BE CAST IN LENGTHS OF MAX. 3m & to have a 1:100 fall towards BUILDING.

Skirtings:

- 1. SKIRTING – 15mm THICK “MARLEY” RIDGED PVC SKIRTING SCREWED AND PLUGE TO WALL AT 450mm C/C

Walls & Structure:

- 1. EXTERNAL WALLS – APPROVED FACEBRICK WALLS IN STRETCHER BOND TO RECEIVE 10mm V&A 6mm deep SQUARE RECESSED JOINTS IN BOTH DIRECTIONS.
- 2. BROWDERFACE BRICK – BROWDERFACE TO 230 AND 115 WALLS FOUNDATION WALLS – 2ND COURSE, SUPERSTRUCTURE – 4 COURSES EXTENDING OVER OPENINGS FORMED IN BROWDERFACE. EVERY COURSE TO BE 400mm OUTSIDE 500mm BEYOND OPENING IN BOTH DIRECTIONS.
- 3. 226x10mm S&S BEAMS TO BE BUILT IN & TIED DOWN TO FACEBRICK COLUMNS WITH 3mm GALVANIZED WIRE TIES BEAM TO BE CROSSTIE TIED PRIOR TO BEING BUILT IN.
- 4. UNTIL – APPROVED FACEBRICK ON EDGE UNTIL OVER ALL WINDOW & DOOR OPENINGS. BROWDERFACE TO RECEIVE 10mmx50mm SQUARE RECESSED JOINTS.
- 5. D.P.C. – PROVIDE 370S REINFORCING IRON IN WALLS AT FLOOR LEVEL & UNDER ALL EXTERNAL WINDOW GLASS.
- 6. INTERIOR WALLS – APPROVED STOCKBRICK WALLS IN STRETCHER BOND TO RECEIVE 10mm V&A 6mm deep SQUARE RECESSED JOINTS TO RECEIVE 1/4 SMOOTH 1:5 CEMENT SAND PLASTER TO RECEIVE 10mmx10mm UNIVERSAL UNDERCOAT AND TWO COATS PLASSON POLYMER SUPER ACRYLIC PVA COLOUR AS PER APPLICATOR.
- 7. WALL TILES – PROVIDE STANDARD 150x150mm WHITE GLAZED WALL TILES FROM TOP OF WINDOW HEIGHT(2290mm) TO TIES TO L&D WITH MANUFACTURERS APPROVED TUNG OILING AND WHITE TILING GROUT.

Window Sills

E1. INTERNAL WINDOW SILL – 15mm thick FIBRE CEMENT WINDOW SILL BEDDED IN 1:4 CEMENT SAND MORTAR. SAND & APPLY ALKALI RESISTANT SEALER AND TWO COATS MAT ENAMEL PAINT.

E2. EXTERNAL WINDOW SILL – APPROVED FACEBOOK ON EDGE, TO MATCH WALLS. JOINTS TO BE SQUARE & RECESSED.

Ceiling & Cornice:

F1. CORNICE – 75mm OPISCON DUELED CORNICE NAIL TO WALL AND CEILING. AT 450mm CENTRES MAX. AND CEILING PANEL FINISH TO MATCH CEILING

F2. CEILING – 6mm CLAUDET FIBRE CEMENT CEILING NAIL TO 38x38mm SQA BATTENS AT MAX. 400mm C/C WITH GALVANISED CLOUT NAILS. PROVIDE GALVANISED H-PROFILE JOINTING STRIPS TO BE PRE PAINTED. PREHIRE AND APPLY 1/3UNIVERSAL UNDERCOAT & TWO COATS PLASTON POLYN SUPER ACRYLIC PVA PAINT.

Roof & Fascia:

G1. ROOF SHEETING – 0.6mm "XPLOR" ROOF SHEETING IN CHROMADEK FINISH ON 76x50mm SQA PURLINS AT MAX. 1200mm C/C ON PINE AT APPROVED PRE-FABRICATED ROOF TRUSS SYSTEM.

G2. RIDGE CAPPING – STANDARD FACTORY MANUFACTURED RIDGES AND FLASHINGS IN FINISH TO MATCH ROOF COVERING.

G3. FASCIA & GUTTERS – 250x20mm TYPED PCP PRESSURE BRED CONCRETE BRASS SQUEW PILED TO TRUSS ENDS & COUNTER BATTEN WITH GALVANISED BRASS SCISSORS. PREHIRE & APPLY ONE UNIVERSAL UNDERCOAT & TWO COATS PLASTON POLYN SUPER ACRYLIC PVA PAINT.

100 x 100 x 6mm GUTTERS WITH 100mm DIA RAINWATER DOWNPIPES WITH 100mm x 100mm FLORES.

G4. TRUSS SYSTEM: TRUSSER PANEL AT APPROVED PRE-FABRICATED SYSTEM AT 1200mm C/C MAX. PURLINS 50 x 76mm SQA PINE AT 1400mm C/C MAX. WALL PLATE 114 x 38mm SQA PINE TO BE CROSCOTE TREATED BEFORE FINISH. CERTIFICATE & GUARANTEE FOR DESIGN & ERECTION TO BE SUPPLIED BY TRUSS MANUFACTURER. ALL EXPOSED TRUSS SECTIONS AS WELL AS SECTIONS IN CONTACT WITH TRUCKS TO BE CROSCOTE TREATED BEFORE FINISH. INTO POSITION. TRUSSES TO BE SECURED TO WALLS AT WALLPLATE WITH 2.5mm GALV. STEEL WIRE TIES, BUILT INTO WALLS W/ BRICK COURSES.

NOTES:

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REVISIONS		
REV. No.:	DATE	DESCRIPTION

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IMPLEMENTING AGENT	
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END USER CLIENT



DEPARTMENT OF EDUCATION

PRINCIPAL AGENT



ARCHITECTS

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architects & project managers

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PROJEK/PROJECT

Molai Jubilee Secondary School

DRAWING

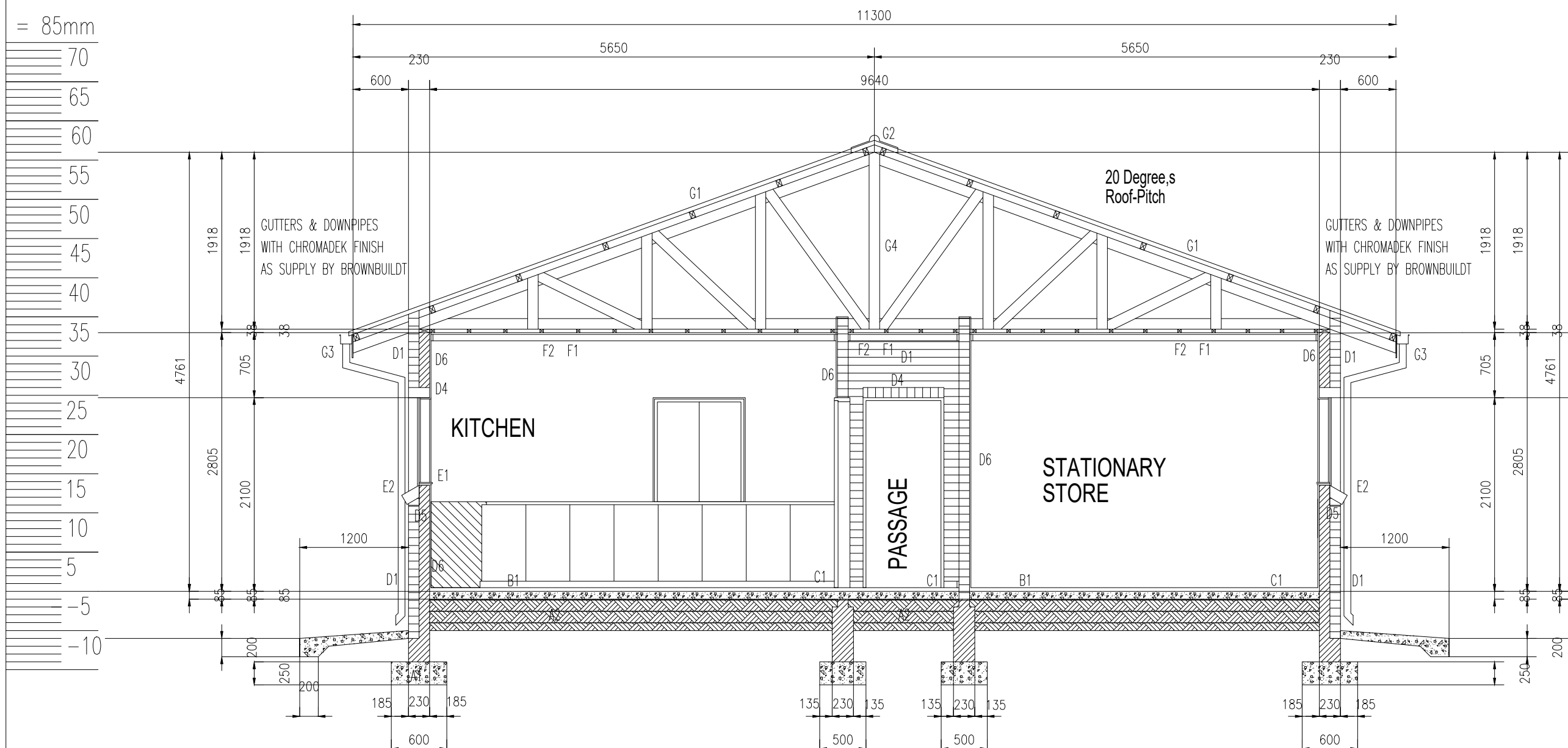
ADMIN BLOCK : ROOF PLAN, CEILING PLAN
AND FOUNDATION PLAN.

ISSUED FOR UITGEREIK VIR	PRELIMINARY VOORLOPIG	INCLUSTING INSKOUTERS TEKENING- CONTRACT MEASUREMENT METEERING	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDKEURING	DATE DATUM
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PROJECT Nr./PROEKT No.		TEKENING Nr. DRAWING No.		WYSIGINGS REVISION No.	
VC-LI19-02	VC-LI19-02-MAD-100-03			00	

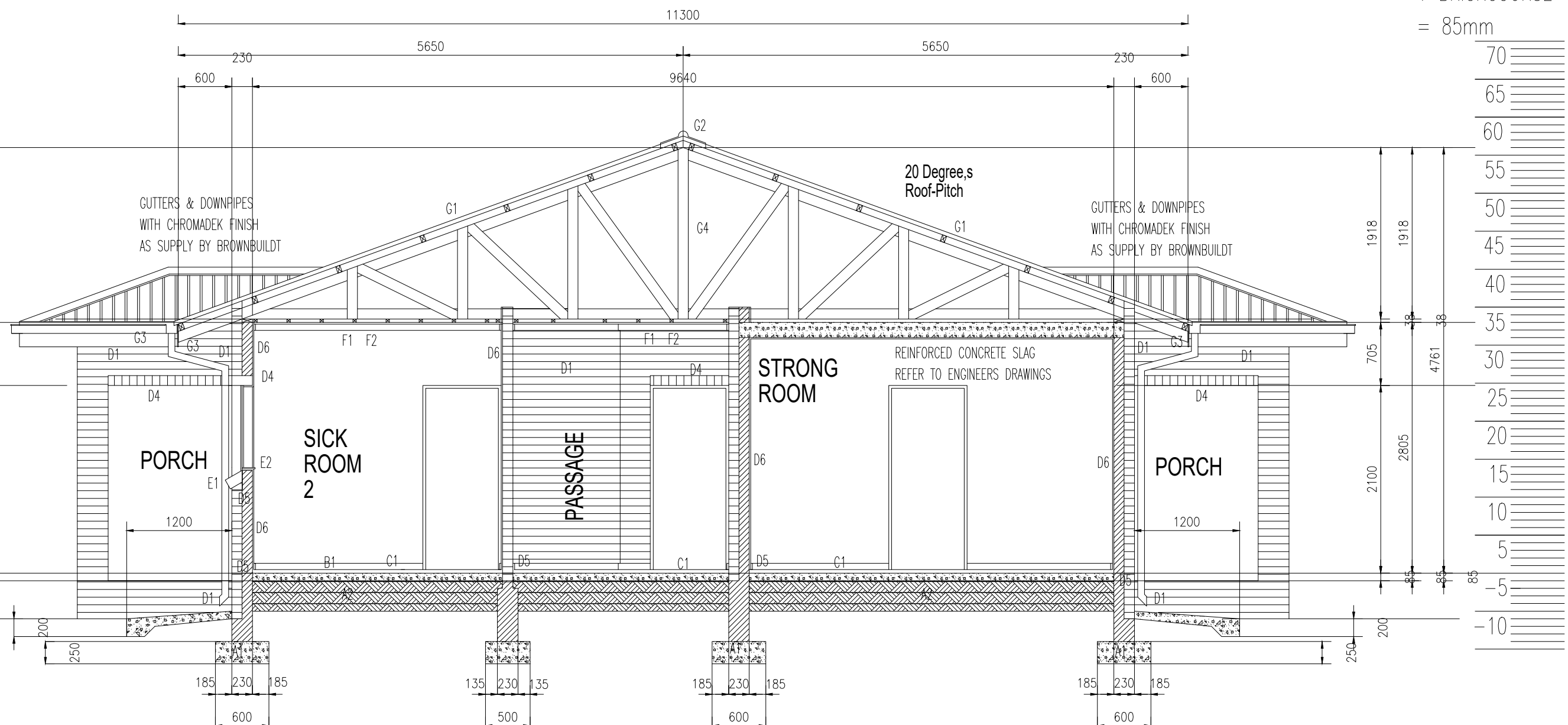
PHASE/STAGE	WORKING DRAWINGS
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SKALA/SCALE 1:100	DATUM/DATE 01/2019	GETEKEN/DRAWN X.J THEMBA	NAGESIEN/CHECKED N.J. BHEMBE
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1 BRICKCOURSE
= 85mm



SECTION A-A:
Scale 1:50.



SECTION B-B:
Scale 1:50.

CONSTRUCTION NOTES

Foundations:

- A1. STRIP FOUNDATIONS – 700x250mm 15Mpa CONCRETE STRIP FOUNDATION.
TOP OF FOUNDATION TO BE MIN 340mm BELOW N.G.L.
A2. FILLING – APPROVED HARDCORE FILLING COMPACTED IN LAYERS OF MAX. 150mm. FILLING TO BE TREATED WITH SABS APPROVED INSECTICIDE AND WEED KILLER TO COMPLY WITH SABS 1164 & 1165.

Surfacebeds & floors:

- B1. SURFACEBED – 85mm THICK 15Mpa CONCRETE SURFACEBED ON USB GREEN 250 MICRON DAMP PROOF MEMBRANE. SURFACEBED CAST IN SECTIONS OF MAX. 200mm.
B2. SCREED & FLOOR FINISH – “Marley Super Metro” 25mm THICK FULLY FLEXIBLE VINYL FLOOR SHEETING ON 1:4 SMOOTH CEMENT SAND SCREED TO A TOTAL THICKNESS OF 30mm. ALL LAD AND FINISHED STRICTLY TO MANUFACTURERS SPEC.
B3. SCREED & FLOOR FINISH – 30mm 1:4 CEMENT SAND SCREED TO RECEIVE “Marley” 25mm THICK FULLY FLEXIBLE VINYL ASBESTOS FLOOR TILES, LAD STRICTLY TO MANUFACTURERS SPEC.
B4. APRON – 1200mm WIDE 15Mpa CONCRETE APRON WITH WOOD FLOAT FINISH. APRON TO BE CAST IN LENGTHS OF MAX. 3m & TO HAVE A 1:100 FALL AWAY FROM BUILDING.

Skirlings:

- C1. SKIRTING – 70mm HIGH “MARLEY” RIDGED PVC SKIRTING SCREWED AND PLUGE TO WALL AT 450mm C/C.

Walls & Structure:

- D1. EXTERNAL WALLS – APPROVED FACEBRICK WALLS IN STRETCHER BOND TO RECEIVE 10mm WIDE x 6mm DEEP SQUARE RECESSED JOINTS IN BOTH DIRECTIONS.
D2. BRICKWORK: BRC BRICKWORK TO 230 AND 115 WALLS FOUNDATION WALLS – EVERY 2ND COURSE, SUPERSTRUCTURE – EVERY 4TH COURSE. OVER OPENINGS FORMED IN BRICKWORK, EVERY COURSE FOR 4 COURSES EXTENDING 500mm BEYOND OPENING IN BOTH DIRECTIONS.
D3. 228x76mm SAP BEAM TO BE BUILT IN & TIED DOWN TO FACEBRICK COLUMNS WITH 2.5mm GALVANISED WIRE TIES. BEAM TO BE CREOSOTE TREATED PRIOR TO BEING BUILT IN.
D4. LINTOL – APPROVED FACEBRICK ON EDGE LINTOL OVER ALL WINDOW & DOOR OPENINGS. BRICKWORK TO RECEIVE 10x6mm SQUARE RECESSED JOINTS.
D5. D.P.C. – PROVIDE 375 MICRON DPC IN WALLS AT FLOOR LEVEL & UNDER ALL EXTERNAL WINDOW SILLS.
D6. INTERNAL WALLS – APPROVED STOCKBRICK WALLS IN STRETCHER BOND TO RECEIVE 1 x COAT SMOOTH 1:5 CEMENT SAND PLASTER TO RECEIVE 1MERT UNIVERSAL UNDERCOAT AND TWO COATS PLASSON POLVIN SUPER ACRYLIC PVA. COLOUR AS PER ARCHITECT.
D7. WALL TILES – PROVIDE STANDARD 150x150mm WHITE GLAZED WALL TILES FROM FLOOR TO TOP OF WINDOW HEIGHT(225mm). TILES TO BE LAD WITH MANUFACTURERS APPROVED TILING ADHESIVE, AND WHITE TILING GROUT.

Window Sills:

- E1. INTERNAL WINDOW SILL – 15mm THICK FIBRE CEMENT WINDOW SILL BEDDED IN 1:4 CEMENT SAND MORTAR. SAND & APPLY ALKALI RESISTANT SEALER AND TWO COATS MAT ENAMEL PAINT.
E2. EXTERNAL WINDOW SILL – APPROVED FACEBRICK ON EDGE, TO MATCH WALLS. JOINTS TO BE SQUARE & RECESSED.

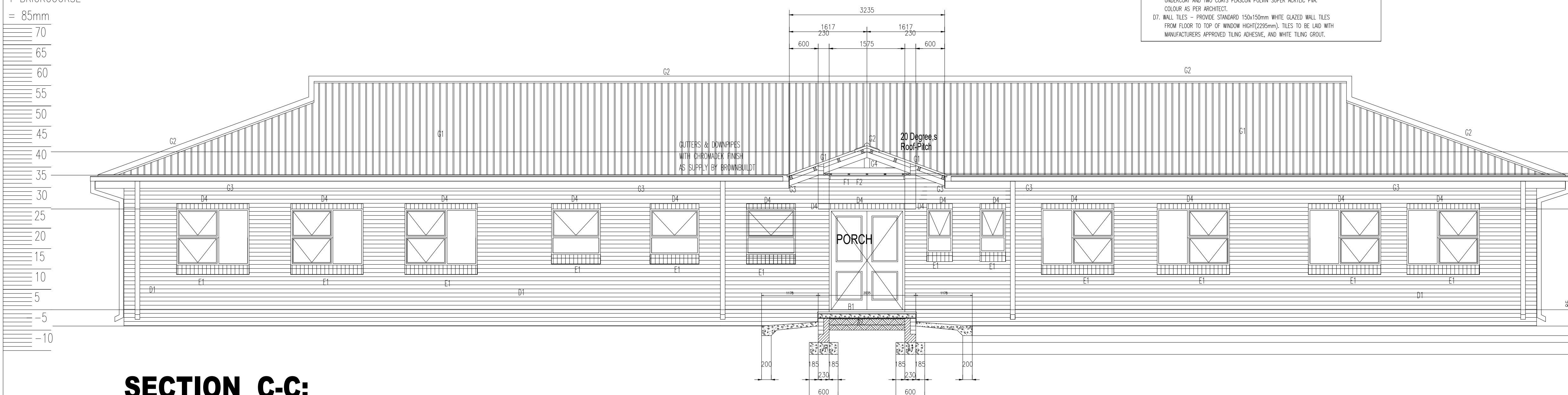
Ceiling & Cornice:

- F1. CORNICE – 75mm OPSUM COVED CORNICE NAILED TO WALL AND CEILING. AT 450mm CENTRES MAX. AND TO RECEIVE PAINT FINISH TO MATCH CEILING.
F2. CEILING – 6mm CLADIT FIBRE CEMENT CEILING NAILED TO 38x38mm SAP BATTENS AT MAX. 400mm C/C WITH GALVANISED CLOUT NAILS. PROVIDE GALVANISED H-PROFILE JOINTING STRIPS TO BE PRE PAINTED. PREPARE AND APPLY 1xUNIVERSAL UNDERCOAT & TWO COATS PLASSON POLVIN SUPER ACRYLIC PVA PAINT.

Roof & Fascia:

- G1. ROOF SHEETING – 0.6mm “KULPOK” ROOF SHEETING IN CHROMADEK FINISH ON 76x50mm SAP PURLINS AT MAX. 1200mm C/C ON PATENT & APPROVED PRE-FABRICATED ROOF TRUSS SYSTEM.
G2. RIDGE CAPPING – STANDARD FACTORY MANUFACTURED RIDGES AND FLASHING IN FINISH TO MATCH ROOF COVERING.
G3. FASCIA & GUTTERS – 25x10mm THICK FC77 PRESSED FIBRE CEMENT FASCIA. SCREW FIXED TO TRUSS ENDS & COUNTER BATTEN WITH COUNTERSUNK BRASS SCREWS. PREPARE & APPLY ONE UNIVERSAL UNDERCOAT & TWO COATS PLASSON POLVIN SUPER ACRYLIC PVA PAINT. 100 x 100 x 0.6mm GUTTERS WITH 100mm DA RAINWATER DOWNPIPES WITH CHROMADEK FINISH.
G4. TRUSS SYSTEM: TIMBER PATENT & APPROVED PRE-FABRICATED SYSTEM AT 1200mm C/C MAX. PURLINS 50 x 76mm SA PINE AT 1400mm C/C MAX. WALL PLATE 114 x 38mm SA PINE TO BE CREOSOTE TREATED BEFORE FIXING. CERTIFICATE & GUARANTEE FOR DESIGN & ERECTION TO BE SUPPLIED BY TRUSS MANUFACTURER. ALL EXPOSED TIMBER SECTIONS AS WELL AS SECTIONS IN CONTACT WITH WET TRADES TO BE CREOSOTE TREATED BEFORE FIXING INTO POSITION. TRUSS TO BE SECURED TO WALLS AT WALLPLATE WITH 2.5mm GALV. STEEL WIRE TIES, BUILT INTO WALLS MIN 6 BRICK COURSES.

1 BRICKCOURSE
= 85mm



SECTION C-C:
Scale 1:50.

1 BRICKCOURSE
= 85mm

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REVISIONS

REV. NO. DATE DRAWN DESCRIPTION

IMPLEMENTING AGENT



END USER CLIENT



PRINCIPAL AGENT



ARCHITECTS



PROJECT/PROJECT

Molai Jubilee Secondary School

DRAWING

ADMIN BLOCK : SECTIONS

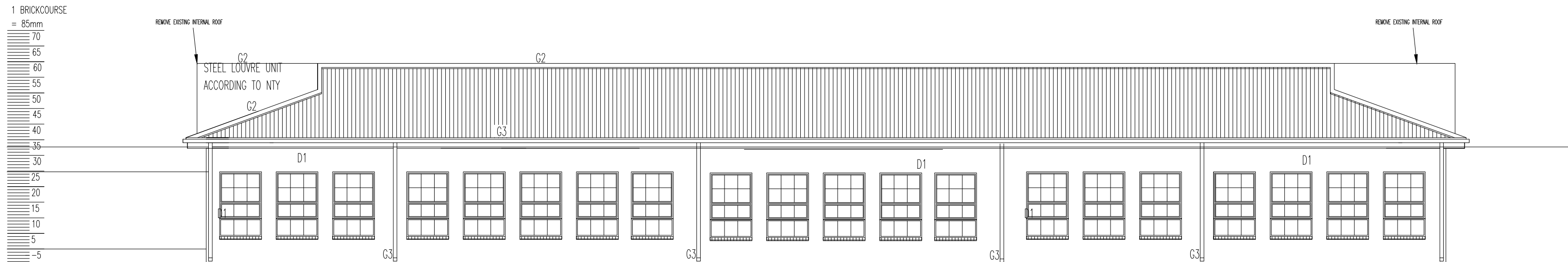
ISSUED FOR	PRELIMINARY	INFORMATION	TENDER-CONTRACT	MEASUREMENT	REVISIONS	APPROVAL	DATE
UITREKEK VIR	VOORLOF	INLIGTING	TENDER-KONTRAK	MEETREK	KONSTRUKSIE	GOEDKEURING	DATUM

PROJECT No./PROJECT No.	TEKENING No./DRAWING No.	REVISIONS No./REVISION No.
VC-L19-02	VC-L19-02-MAD-200-01	00

FASE/STAGE	WORKING DRAWINGS
SKAAL/SCALE	DATUM/DATE
1:100	01/2019
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XJ THEMA	NLL BHEMRE

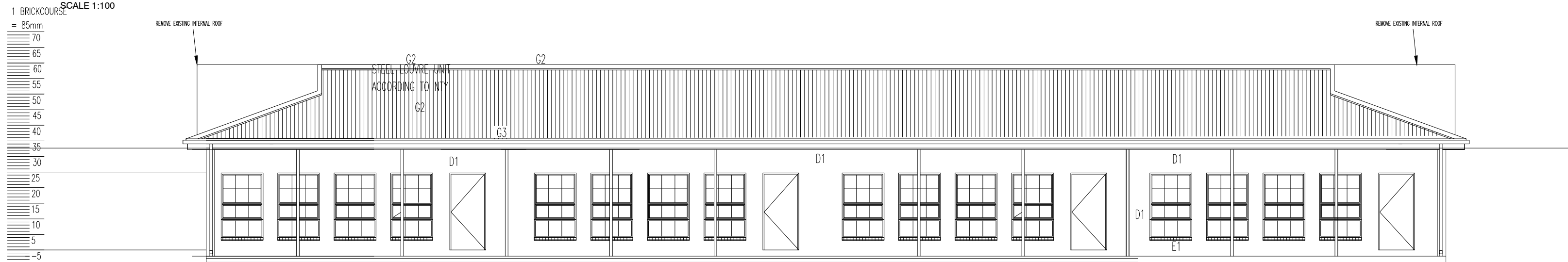


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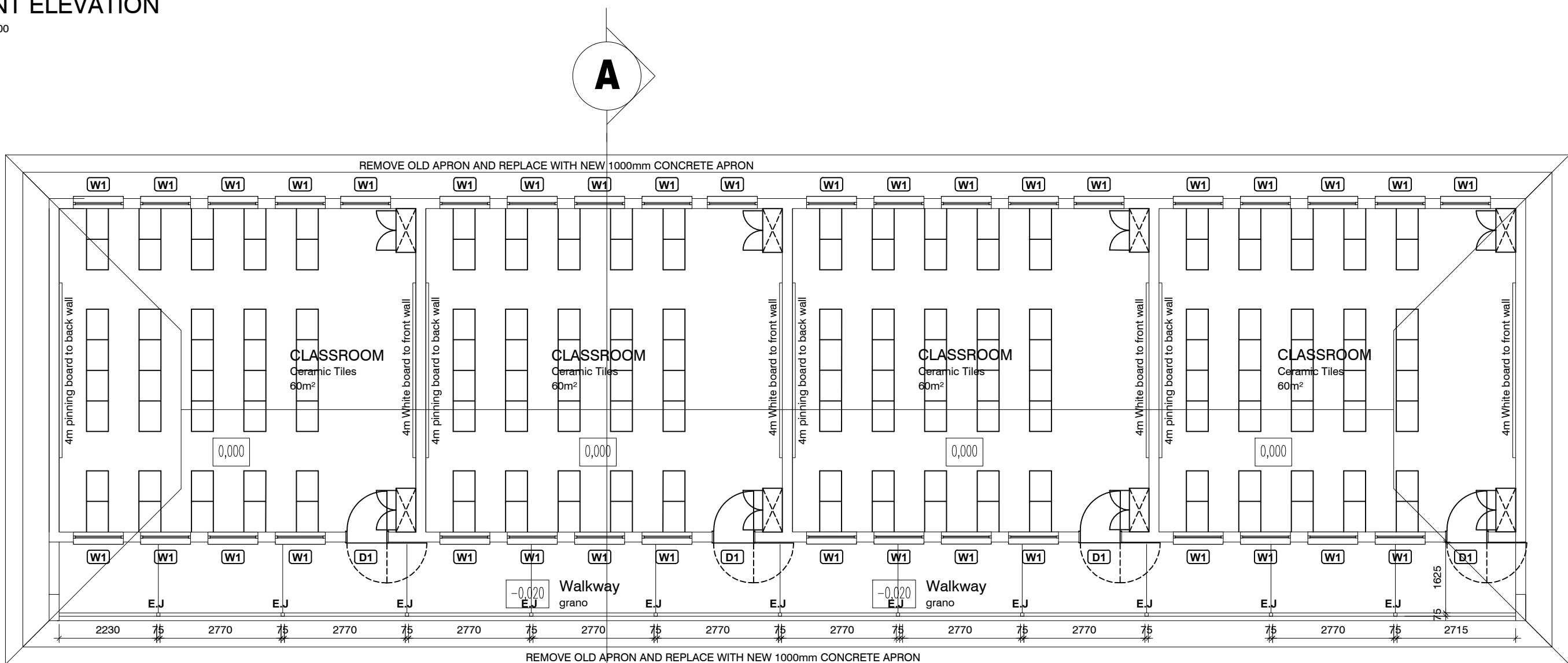
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SCALE 1:100



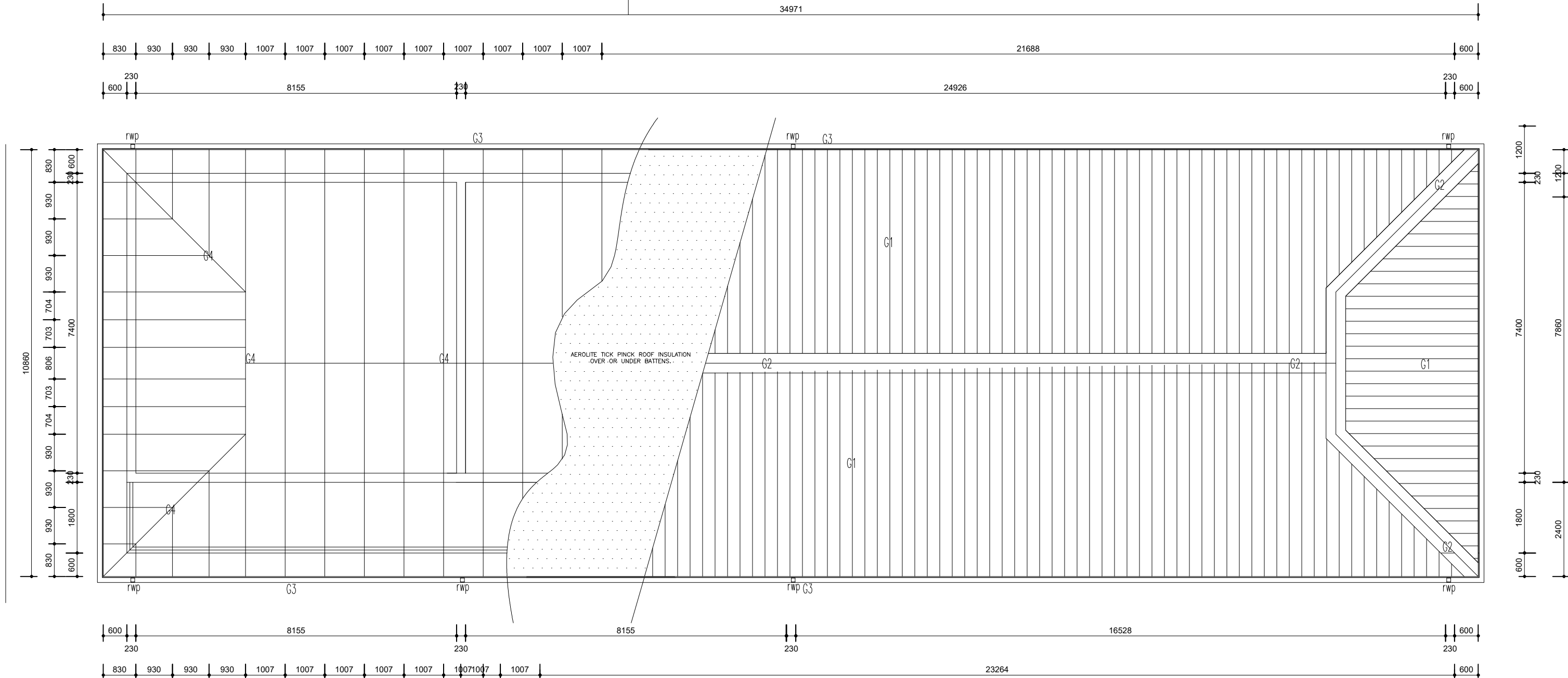
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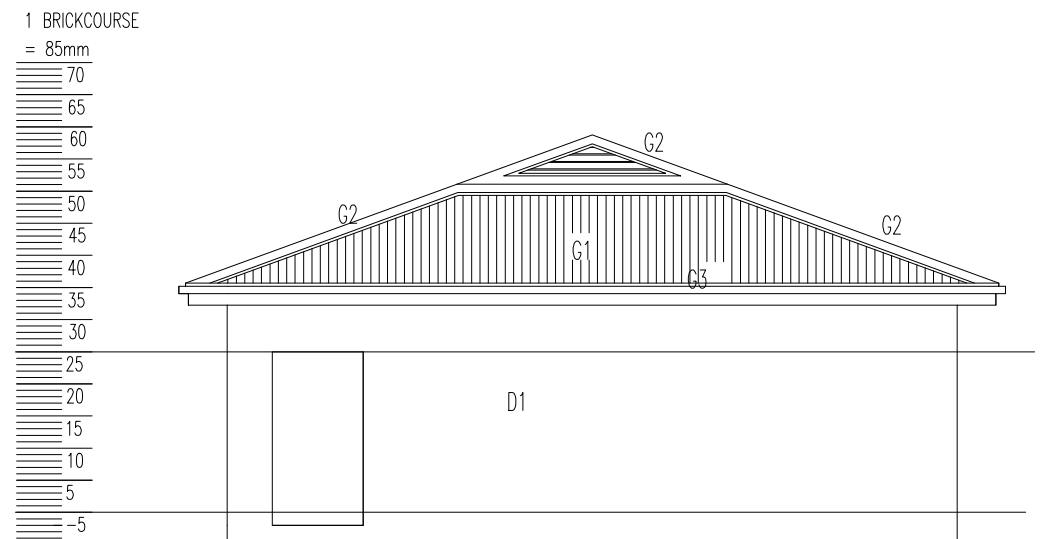
EXISTING CLASSROOM PLAN

SCALE 1:100



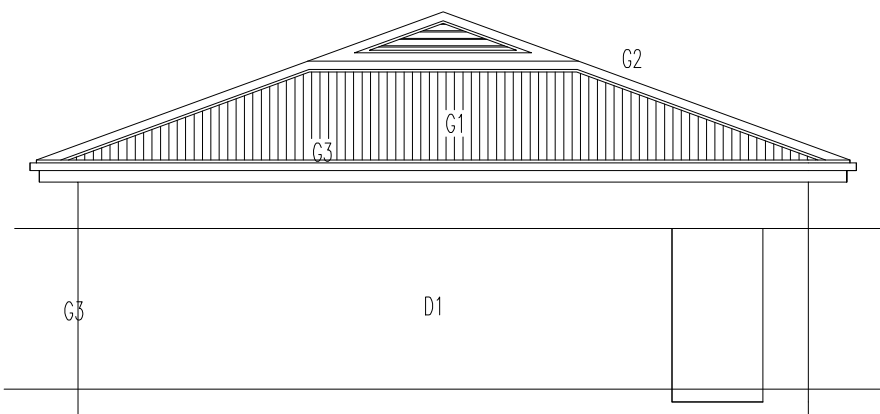
X3 CLASSROOM BLOCK NEW ROOF PLAN

SCALE 1:100



SIDE ELEVATIONS A

SCALE 1:100



SIDE ELEVATIONS B

SCALE 1:100

REFURBISH EXISTING CLASS BLOCK A

REMOVE EXISTING ROOF AND REPLACE WITH NEW. REMOVE DOORS AND FRAMES AND REPLACE WITH NEW. BRUSH/SHAVE INTERNAL WALLS IN THE CLASS ROOM WHICH WAS CONVERTED TO AN ADMIN OFFICE AND CONVERT IT BACK TO A CLASSROOM. PAINT ALL WINDOWS AND CLEAN FACE BRICK. PLASTER ON INDICATED SECTIONS INSIDE THE CLASSROOMS. CLASSROOM TO BE REFURBISH AS PER SPECIFICATION BELOW

WINDOW SCHEDULE: REFURBISH (W1)

FINISH : CLEAN WITH STEEL BRUSH & APPLY 1 COAT DURAPRIME, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.

REMOVE DOORS AND REPLACE WITH

D1 FRAME : STANDARD MILDSTEEL 813x203x12mm SINGLE REBATE PRESSED METAL DOOR FRAME FOR 115mm WALLS
FINISH WITH 1 COAT DURAPRIME, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL COLOUR AS PER ARCHITECT.
DOOR : 813x203x44mm SOLID R & F PANEL MERANTI DOOR WITH WASONITE BACKING - TO RECEIVE 1 LOCKS WANDER
IRONMONGERY : 3 x PARLIAMENT HINGES.
LOCKSET : "SOLID BLESBROK" 440/513 2-LEVER LOCKSET.
No of DOORS : 4 (H1 - 2)(H2 - 2)

NOTE: DOOR D1:
NTY 914 CLASSROOM COMBO COMBINATION DOOR FRAME WITH SECURITY GATE (BOTH OPENING OUT) CONSISTING OF:

FRAME FOR DOOR 914 x 2032mm HIGH FITTED WITH THREE PARLIAMENT HINGES.

SINGLE SECURITY GATE AND FRAME, GATE 914 x 2032mm HIGH OVERALL FORMED OF 25 x 25 x 2mm TUBULAR SECTION FRAME MITRED AND WELDED AT ANGLES AND TWO 25 x 25 x 2mm TUBULAR SECTION HORIZONTAL MIDDLE RAILS, GATE FILLED IN WITH 12 x 12mm SQUARE SECTION VERTICAL RAILS AT 100mm CENTRES AND FITTED WITH LOCKING BOLT SUITABLE FOR PADLOCK, FRAME FORMED OF 25 x 38 x 2mm TUBULAR SECTION STILES AND TOP RAIL MITRED AND WELDED AT ANGLES AND FITTED WITH THREE HINGES WELDED TO GATE AND FRAME, FRAME FACTORY WELDED AT MAXIMUM 250mm CENTRES TO DOOR FRAME

REMOVE DOORS AND REPLACE WITH

Surfacebeds & floors:

B3. SCORED & FLOOR FINISH - 30mm 1:4 CEMENT SAND SCORED TO RECEIVE 400mm x 400mm Ceramic FLOOR TILES, LAD STRICTLY TO MANUFACTURERS SPEC.
B4. APRON - 1200mm WIDE 150mm CONCRETE APRON WITH WOOD FLOAT FINISH. APRON TO BE CAST IN LENGTHS OF MAX. 3m & TO HAVE A 1:100 FALL AWAY FROM BUILDING.

Skirtings:

C1. SKIRTING - 75mm HIGH MERANTI
Walls & Structure:
D1. CLEAN AND WASH FACE BRICK FINISH WITH SUGAR SOAP
D6. INTERNAL WALLS - APPROVED STRECHROCK WALLS IN STRETCHOVERLAP TO RECEIVE 1 x COAT SMOOTH 1:5 CEMENT SAND PLASTER TO RECEIVE THERMIT UNIVERSAL UNDERCOAT AND TWO COATS PLASSON POLVIN SUPER ACRYLIC PVA. COLOR AS PER ARCHITECT.
D7. WALL TILES - PROVIDE STANDARD 150x150mm WHITE GLAZED WALL TILES FROM FLOOR TO TOP OF WINDOW HEIGHT(2250mm). TILES TO BE LAD WITH MANUFACTURERS APPROVED TILING ADHESIVE, AND WHITE TILING GROUT.

Window Sills:

E1. INTERNAL WINDOW CILL - 15mm THICK FIBRE CEMENT WINDOW SILL BEDDED IN 1:4 CEMENT SAND MORTAR. SAND & APPLY ALKALI RESISTANT SEALER AND TWO COATS WAT ENAMEL PAINT.
E2. EXTERNAL WINDOW CILL - APPROVED FACEBRICK ON EDGE, TO MATCH WALLS. JOINTS TO BE SQUARE & RECESSED.

Ceiling & Cornice:

F1. CORNICE - 75mm GYPSUM COVERED CORNICE NAILED TO WALL AND CEILING AT 450mm CENTRES MAX. AND TO RECESS PAINT FINISH TO MATCH CEILING
F2. CEILING - 6mm CLOUT FIBRE CEMENT CEILING NAILED TO 38x38mm SAP BATTENS AT MAX. 400mm C/C WITH GALVANISED CLOUT NAILS. PROVIDE GALVANISED H-PROFILE JOINTING STRIPS TO BE PRE PAINTED. PREPARE AND APPLY 1xUNIVERSAL UNDERCOAT & TWO COATS PLASSON POLVIN SUPER ACRYLIC PVA PAINT.
Roof & Facia:
G1. ROOF SHEETING - 0,6mm "XULPOK" ROOF SHEETING IN CHROMADECK FINISH ON 76x50mm SAP PURLING AT MAX. 1200mm C/C ON PATENT & APPROVED PRE-FABRICATED ROOF TRUSS SYSTEM.
G2. RIDGE CAPPING - STANDARD FACTORY MANUFACTURED RIDGES AND FLASHINGS IN FINISH TO MATCH ROOF COVERING.
G3. FACIA & GUTTERS - 250x10mm THICK PC77 PRESSED FIBRE CEMENT FACIA, SCREW FIXED TO TRUSS DUES & COUNTER BATTEN WITH COUNTERSINK BRASS SCREWS. PREPARE & APPLY ONE UNIVERSAL UNDERCOAT & TWO COATS PLASSON POLVIN SUPER ACRYLIC PVA PAINT
100 x 100 x 0,6mm GUTTERS WITH 100mm DIA RAINWATER DOWNPIES WITH CHROMADECK FINISH.
G4. TRUSS SYSTEM: TIMBER PATENT & APPROVED PRE-FABRICATED SYSTEM AT 1200mm C/C MAX. PURLING 50 x 76mm SA PINE AT 1400mm C/C MAX. WALL PLATE 114 x 38mm SA PINE TO BE CREOSOTE TREATED BEFORE FIXING. CERTIFICATE & GUARANTEE FOR DESIGN & ERECTION TO BE SUPPLIED BY TRUSS MANUFACTURER. ALL EXPOSED TIMBER SECTIONS AS WELL AS SECTIONS IN CONTACT WITH MET TRADES TO BE CREOSOTE TREATED BEFORE FIXING INTO POSITION. TRUSS TO BE SECURED TO WALLS AT WALLPLATE WITH 2,5mm GALV. STEEL WIRE TIES, BUILT INTO WALLS MIN 6 BRICK COURSES.

NOTES: FURNITURE:

CUPBOARDS - FORMICA TOPS WITH WHITE MELAMINE
CUPBOARD ACC TO DETAIL LAYOUT PROVIDED BY CUPBOARD CONNECTIONS.
FLOOR MOUNTED BENCHES - FREE-STANDING FLOOR MOUNTED BENCHES WITH BACK RESTS - CODE SBFM.
SHELVING: CODE SM2100/300 18mm WHITE MELAMINE SHELVING COMPLETE WITH WALLBANDS & BRACKETS AS SUPPLY BY CUPBOARD CONNECTIONS.

DE: ONTWERP: OP: HIERDE
TEKENING: BY: DE: ONDEND
VAN DE: ARCHITECT
KOPING: VOORBEHOUD

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COMPUTER: REF.

REVISIONS

REV. NO.: DATE: DRAWN: DESCRIPTION:

IMPLEMENTING AGENT



END USER CLIENT



DEPARTMENT OF EDUCATION

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GAUTENG

PROJECT/PROJECT

Molai Jubilee Secondary School

DRAWING

EXISTING X 4 CLASS ROOM BLOCK :
REFURBISHMENT DETAILS.

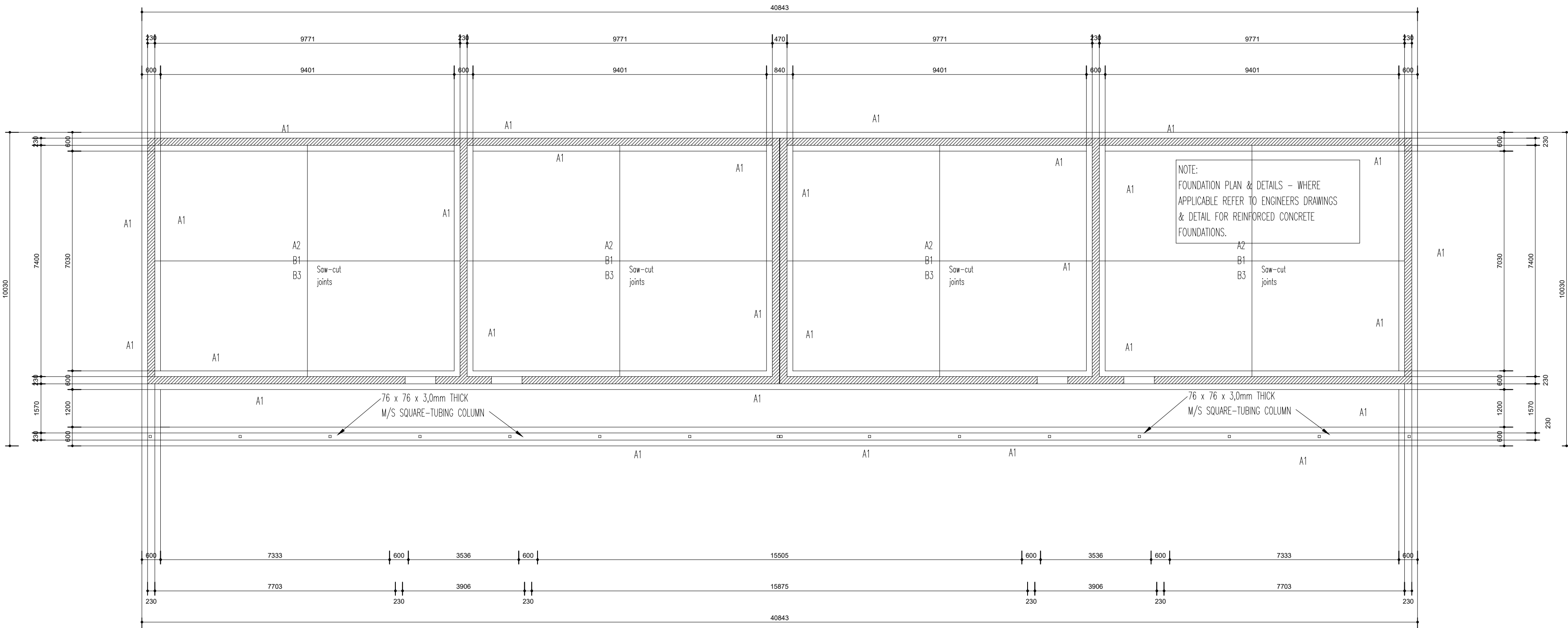
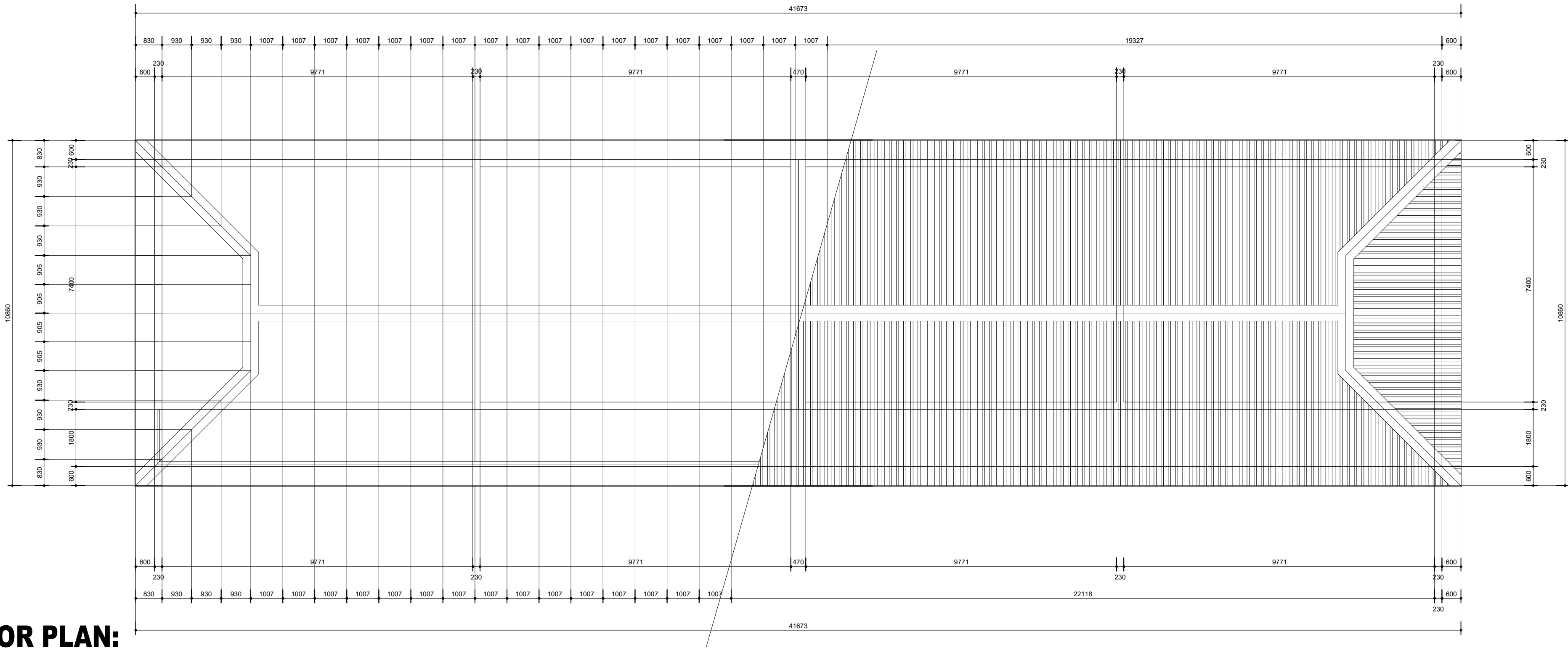
ISSUED FOR UITGEEREK VIR	PRELIMINARY VOORLOP	INFORMATION INFORMATIE	TENDER-CONTRACT TENDER-KONTRAK	MEASUREMENT METWET	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDKEURING	SCHAKELING HANDTEKENING
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PROJECT No./PROJECT No.	TEKENING No. DRAWING No.	WYSIGINGS No. REVISION No.
VC-L19-02	VC-L19-02-X4CLA-100-02	00

FASE/STAGE	WORKING DRAWINGS
SKAL/SCALE 1:100	DATUM/DATE 01/2019
GETEKEN/DRAWN XJ. THEMBA	NAGESSEN/CHECKED NLL. BHEMBE



GROUND FLOOR PLAN:
4 X CLASSROOM-BLOCK:
ROOF PLAN LAYOUT
Scale 1:100.



GROUND FLOOR PLAN:
4 X CLASSROOM-BLOCK:
FOUNDATION LAYOUT
Scale 1:100.

NOTES: FURNITURE:

CUPBOARDS - FORMICA TOPS WITH WHITE MELAMINE
CUPBOARD ACC TO DETAIL LAYOUT PROVIDED BY
CUPBOARD CONNECTIONS.
FLOOR MOUNTED BENCHES - FREE-STANDING FLOOR
MOUNTED BENCHES WITH BACK RESTS - CODE SBFM.
SHELVING: CODE SM2/00/300 16mm WHITE MELAMINE
SHELVING COMPLETE WITH WALLBANDS & BRACKETS
AS SUPPLY BY CUPBOARD CONNECTIONS.

WINDOW SCHEDULE:

W1 - CAT. No. : STANDARD MILDSTEEL SCHOOLTYPE CENTRE PIVOT
MILDSTEEL WINDOW, CODE - 6/3/9 (NTY 1143846 &
2 x 1143 x 650)
GLAZING : 3mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME
5mm THICK RECURVED GLASS FOR WINDOW CODE 3 & 5
FINISH : CLEAN WITH STEEL BRUSH & APPLY 1 COAT DURAPHOS, 1
UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT.
COLOUR AS PER ARCHITECT.
No of WINDOWS : 18 (THIRTY SIX) PROVIDE BURGULAR BARS OUT OF 12 x 12mm
M/S SQUARE SOLID BARS TO LINE UP WITH VERTICAL &
HORIZONTAL SECTIONS OF WINDOWS - FINISH DITTO FRAME

W2 - CAT. No. : STANDARD MILDSTEEL SCHOOLTYPE CENTRE PIVOT
MILDSTEEL WINDOW, CODE - 6 (NTY 1143846)
GLAZING : 3mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY
PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME
5mm THICK RECURVED GLASS FOR WINDOW CODE 3 & 5
FINISH : CLEAN WITH STEEL BRUSH & APPLY 1 COAT DURAPHOS, 1
UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT.
COLOUR AS PER ARCHITECT.
No of WINDOWS : 2 (FOUR) PROVIDE BURGULAR BARS OUT OF 12 x 12mm
M/S SQUARE SOLID BARS TO LINE UP WITH VERTICAL &
HORIZONTAL SECTIONS OF WINDOWS - FINISH DITTO FRAME

DOOR SCHEDULE:

D1 FRAME : STANDARD MILDSTEEL 813x2032x1,2mm SINGLE REBATE PRESSED
METAL DOOR FRAME FOR 115mm WALLS
FINISH WITH 1 COAT DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO
COATS GLOSS ENAMEL COLOUR AS PER ARCHITECT.
DOOR : 914x2032x44mm SOLID R & F PANEL MERANTI DOOR WITH MASONITE
BACKING - TO RECEIVE 3 COATS VARNISH.
IRONMONGERY : HINGES - 3 x PARLIAMENT HINGES.
LOCKSET - "SOLID BLESSBOK" 460/313 2-LEVER LOCKSET.
No of DOORS : 4 (4H - 1)(4H - 1)

D2 FRAME : STANDARD MILDSTEEL 813x2032x1,2mm SINGLE REBATE PRESSED
METAL DOOR FRAME FOR 115mm WALLS
FINISH WITH 1 COAT DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO
COATS GLOSS ENAMEL COLOUR AS PER ARCHITECT.
DOOR : 914x2032x40mm SEM SOLID CORE-DOOR.
FINISH WITH 1/2 COAT UNIVERSAL UNDERCOAT AND 2/COATS
ACRYLIC PVA. CLOUR TO ARCHITECT.
IRONMONGERY : HINGES - 2x100mm W/S BUTTERFLY HINGES PER DOOR LEAF
LOCKSET - "SOLID BLESSBOK" 460/313 2-LEVER LOCKSET.
PROVIDE DISABLE 150 x 150mm SATIN CHROME SIGNS
AGAINST DOORS.
No of DOORS : 4 (4H - 0)(4H - 2)

NOTE: DOOR D1:

NTY 914 CLASSROOM COMBO COMBINATION DOOR FRAME WITH SECURITY GATE
(BOTH OPENING OUT) CONSISTING OF:

FRAME FOR DOOR 914 x 2032mm HIGH FITTED WITH THREE PARLIAMENT HINGES.

SINGLE SECURITY GATE AND FRAME , GATE 914 x 2032mm HIGH OVERALL FORMED OF
25 x 25 x 2mm TUBULAR SECTION FRAME MITRED AND WELDED AT ANOLES AND TWO
25 x 25 x 2mm TUBULAR SECTION HORIZONTAL MIDDLE RAILS , GATE FILLED IN WITH
12 x 12mm SQUARE SECTION VERTICAL RAILS AT 100mm CENTRES AND FITTED WITH LOCKING
BOLT SUITABLE FOR PADLOCK , FRAME FORMED OF 25 x 38 x 2mm TUBULAR SECTION
STILES AND TOP RAIL MITRED AND WELDED AT ANOLES AND FITTED WITH THREE HINGES
WELDED TO GATE AND FRAME , FRAME FACTORY WELDED AT MAXIMUM 250mm CENTRES TO
DOOR FRAME

CONSTRUCTION NOTES

- Foundations:
A1. STRIP FOUNDATIONS - 700x250mm 15Mpa CONCRETE STRIP FOUNDATION.
TOP OF FOUNDATION TO BE MIN 340mm BELOW N.G.L.
A2. FILLING - APPROVED HARDWARE FILLING COMPACTED IN LAYERS OF MAX.
150mm. FILLING TO BE TREATED WITH SABS APPROVED INSECTICIDE
AND WEED KILLER TO COMPLY WITH SABS 1164 & 1165.
Surfacebeds & floors:
B1. SURFACEBED - 85mm THICK 15Mpa CONCRETE SURFACEBED ON USB GREEN 250
MICRON DAMP PROOF MEMBRANE. SURFACEBED CAST IN SECTIONS OF MAX. 20sqm
B2. FLOOR FINISH - 400MM X 400MM CERAMIC TILE
B3. SCREED & FLOOR FINISH - 30mm 1:4 CEMENT SAND SCREED FILL
B4. APRON - 1200mm WIDE 15Mpa CONCRETE APRON WITH WOOD FLOAT FINISH. APRON
TO BE CAST IN LENGTHS OF MAX. 3m & TO HAVE A 1:100 FALL AWAY FROM BUILDING.
Skirtings:
C1. SKIRTING - 75mm HIGH MERANTI

Walls & Structure:

- D1. EXTERNAL WALLS - APPROVED FACEBRICK WALLS IN STRETCHBOND TO RECEIVE
10mm WIDE x 6mm DEEP SQUARE RECESSED JOINTS IN BOTH DIRECTIONS.
D2. BRICKFORCE: BRG BRICKFORCE TO 230 AND 115 WALLS FOUNDATION WALLS - EVERY
2ND COURSE, SUPERSTRUCTURE - EVERY 4TH COURSE. OVER OPENINGS FORMED IN
BRICKWORK, EVERY COURSE FOR 4 COURSES EXTENDING 500mm BEYOND OPENING IN
BOTH DIRECTIONS.
D3. 228x76mm SAP BEAM TO BE BUILT IN & TIED DOWN TO FACEBRICK COLUMNS
WITH 2,5mm GALVANISED WIRE TIES. BEAM TO BE CREOSOTE TREATED PRIOR
TO BEING BUILT IN.
D4. UNTOL - APPROVED FACEBRICK ON EDGE UNTOL OVER ALL WINDOW & DOOR OPENINGS.
BRICKWORK TO RECEIVE 106mm SQUARE RECESSED JOINTS.
D5. D.P.C. - PROVIDE 375 MARION DPC IN WALLS AT FLOOR LEVEL & UNDER ALL
EXTERNAL WINDOW CILLS.
D6. INTERNAL WALLS - APPROVED STOCKBRICK WALLS IN STRETCHBOND TO RECEIVE
1 x COAT SMOOTH 1:5 CEMENT SAND PLASTER TO RECEIVE 1xMERIT UNIVERSAL
UNDERCOAT AND TWO COATS PLUSCON FOLVIN SUPER ACRYLIC PVA.
COLOR AS PER ARCHITECT.
D7. WALL TILES - PROVIDE STANDARD 150x150mm WHITE GLAZED WALL TILES
FROM FLOOR TO TOP OF WINDOW HEIGHT(2295mm). TILES TO BE Laid WITH
MANUFACTURERS APPROVED TILING ADHESIVE, AND WHITE TILING GROUT.

Window Sills:

- E1. INTERNAL WINDOW CILL - 15mm THICK FIBRE CEMENT WINDOW SILL BEDDED IN 1:4

DE ONTWERP OP HIERDIE
TEKENING BLIJF DIE EIGENDOM
VAN DIE ARCHITECTE
KOPIEEREN VOORBEHOUD

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REV. No. DATE DRAWN DESCRIPTION

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END USER CLIENT



PRINCIPAL AGENT



ARCHITECTS



PROJECT/PROJECT

Molai Jubilee Secondary School

DRAWING

X4 CLASSROOM BLOCK ROOF PLAN AND
FOUNDATION LAY.

ISSUED FOR UITGEEREK VIR	PRELIMINARY VOORLOFPG	INFORMATION INFORMATIE	TESTING CONTRACT TOEGESTUURDE KONTRAK	MEASUREMENT METINGS	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDKEURING	SCHOOL SCHOOL	DATE DATUM
PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02	PROJECT No. VC-L19-02

FASE/STAGE

WORKING DRAWINGS

SKAAL/SCALE

DATUM/DATE

GETEKEN/DRAWN

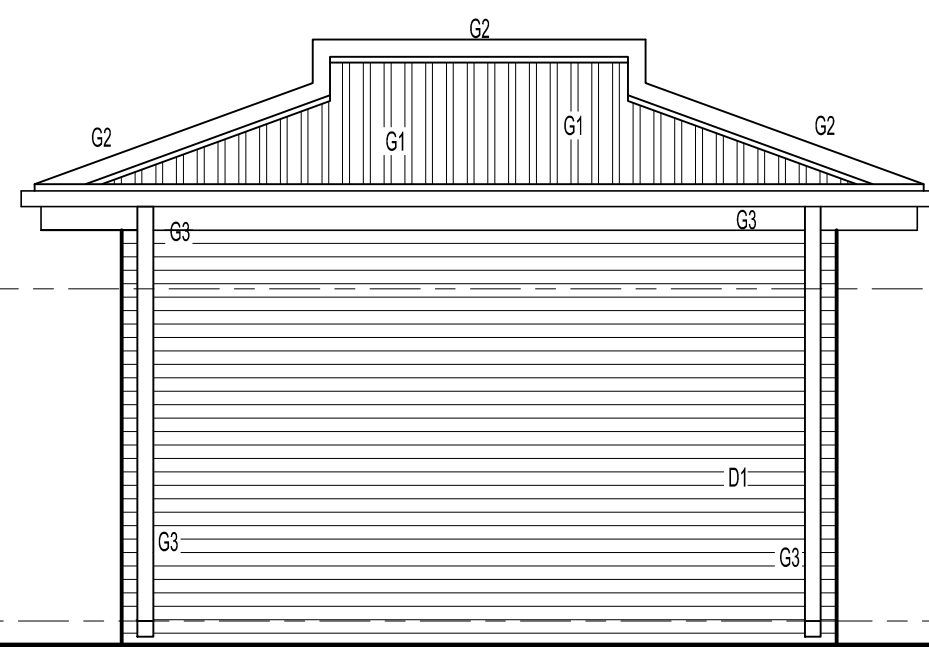
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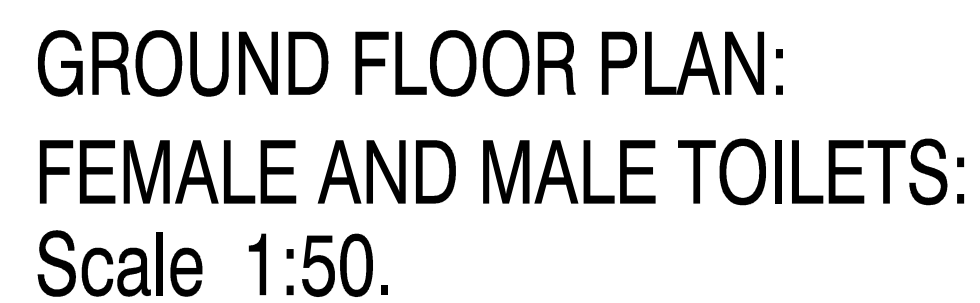


Technical drawing of a building facade. The roof features gables labeled G1 and G2, and a central section labeled G3. The facade includes four windows labeled D4, each with shutters labeled E2. The drawing is a line art representation of a building elevation.

A technical drawing of a building facade. The drawing shows a gabled roof with a small triangular window at the peak. The roof is labeled G2 on both sides. The main body of the building has horizontal siding and is labeled G3 on the left and right sides. A central door is labeled D1. Above the door is a small rectangular window labeled D4. The roofline is labeled G1.

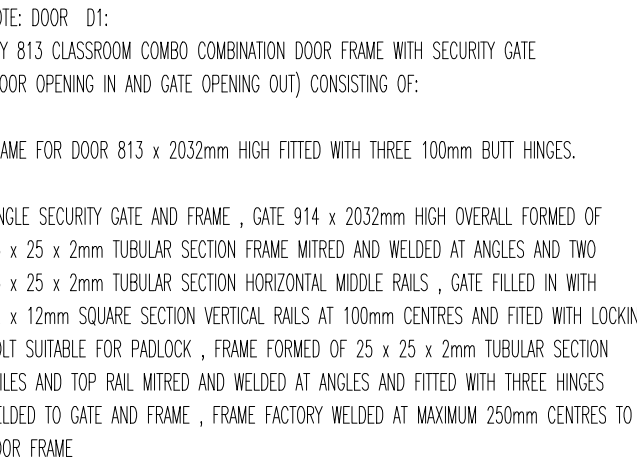
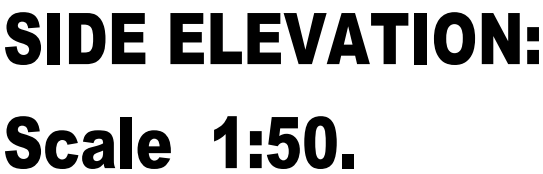
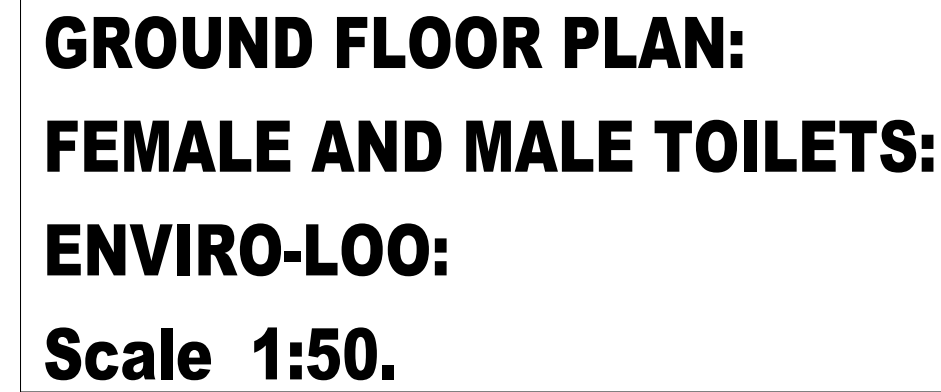
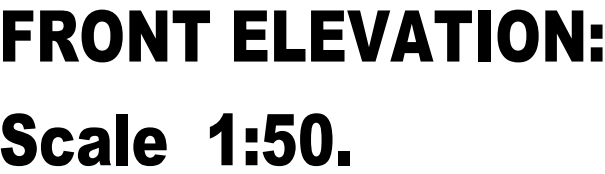
1 BRICKCOURSE
= 85mm

40
35
30
25
20
15
10
5
-5
-10



GALV. STEEL WIRE TIES, BUILT INTO WALLS MIN 6 BRICK COURSES.

SKAAL/SCALE	PAGE SIZE	DATUM/DATE	GETEKEN/DRAWN	NAGESMEN/CHECKED
	A0	01/2019	XJ THEMBA	NL BHEMBE



1. Foundations:

STRIP FOUNDATION: ~ 700x250mm 15mpa CONCRETE STRIP FOUNDATION.
TOP OF FOUNDATION TO BE MIN 345mm BELOW N.G.L.
FLOOR: APPROVED WADROSE FILLING COMPACTED IN LAYERS OF MAX. 150mm. FILLING TO BE MIXED WITH SABS AND APPROVED INSECTICIDE AND WEED KILLER TO COMPLY WITH SABS 1164 & 1165.

2. Surfaces/cbs & floors:

1. SURFACED: ~ 85mm thick 10mpa concrete SURFACED ON USE GREEN 250 MUKRON DPM PAPER MEMBRANE. SURFACED CAST IN SECTIONS OF MAX. 200mm.
2. SCORED & FLOOR FINISH: "Makley Super Metro" 2.5mm thick FLOOR FILLABLE 2mm thick FLOOR SHEETING ON 14 SMOOTH CONCRETE SAND SCORED TO A TOTAL THICKNESS OF 30mm. ALL LAD AND FINISHED STRICHT TO MANUFACTURERS SPEC.
3. SCORED & FLOOR FINISH: ~ 35mm 14 CEMENT SAND SCORED TO RECEIVE "Makley Super Metro" FILLABLE VINYL ASBESTOS FLOOR TILES, LAD STRICHT TO MANUFACTURERS SPEC.
4. APRON ~ 1200mm wide 15mpa concrete APRON WITH WOOD FLOOR FINISH. APRON TO BE CAST IN LENGTHS OF MAX. 3m. TO HAVE A 1:100 FALL AWAY FROM BUILDING.

Skirtings:

1. SKIRTING ~ 70mm high "MARLE" ROODED Pvc SKIRTING SCREWED AND PULICE TO WALL AT 400mm C/C.

Walls & Structure:

1. EXTERNAL WALLS: APPROVED FACEWORK WALLS IN STRETCHBROD TO RECEIVE 10mm wide 6.0mm DEEP COURSE RECESSED JOINTS IN BOTH DIRECTIONS.
2. BROCKFORSCE: BRICK BROCKFORSCE TO 230 AND 115 WALLS FOUNDATIONS WALLS - EVERY 2ND COURSE, SUPERSTRUCTURE - EVERY 4TH COURSE, OVER OPENINGS FORMED IN BROCKFORSCE, EVERY COURSE FOR COURSE 4 DISCOUNTING 500mm BEYOND OPENING IN BOTH DIRECTIONS.
3. 228mm/250mm DEEP C&B TO BE BUILT IN & TIED DOWN TO FACEWORK COLUMNS WITH 2.5mm GALVANISED MESH TIES. BEAM TO BE CRESOSITE TREATED CORNER TO BE BUILT IN.
4. LINTOL - APPROVED FACEWORK ON EDGE LINTOL OVER ALL WINDOW & DOOR OPENINGS. BROCKFORSCE TO RECEIVE 10mm DEEP C&B RECESSED JOINTS.
5. D.P.C. - PROVIDE 375 1000mm DPC IN WALLS AT FLOOR LEVEL AND UNDER ALL EXTERNAL WALLS.
6. INTERNAL WALLS: APPROVED STOCKBRICK WALLS IN STRETCHBROD TO RECEIVE 1 x COAT SMOOTH 15 CEMENT SAND PLASTER TO RECEIVE 14WERT UNIVERSAL UNDERCOAT AND 2 TOPS PLASTER PLAIN SUPER ACRIUM PVA.
COLOR AS PER ARCHITECT.
7. WALL - PROVIDE STANDARD 150x150mm white GLAZED WALL TILES FROM FLOOR TO TOP OF WINDOW HEAD(225mm) TILES TO BE LAD WITH MANUFACTURERS APPROVED TILING ADHESIVE, AND WHITE TILING GROUT.

Window Sills:

E1. INTERNAL WINDOW CILL – 15mm THICK FIBRE CEMENT WINDOW SILL BEDDED IN 1:4 CEMENT SAND MORTAR. SAND & APPLY ALKALI RESISTANT SEALER AND TWO COATS MAT ENAMEL PAINT.

E2. EXTERNAL WINDOW CILL – APPROVED FACEBRICK ON EDGE, TO MATCH WALLS. JOINT TO BE SQUARE & RECESSED.

Ceiling & Cornice:

F1. CORNICE – 75mm GYPSUM CONED CORNICE NAILED TO WALL AND CEILING AT 450mm CENTERS MAX. AND TO RECEIVE PAINT FINISH TO MATCH CEILING

F2. CEILING – 6mm CLADIT FIBRE CEMENT CEILING NAILED TO 3x3x38mm SAP BATTENS AT MAX. 400mm C/C WITH GALVANISED CLOUT NAILS. PROVIDE GALVANISED H-PROFILE JOINTING STRIPS TO BE PRE PAINTED. PREPARE AND APPLY 1xUNIVERSAL UNDERCOAT & TWO COATS PLASCON POLYN SUPER ACRYLIC PVA PAINT.

- 1. roof SHEETING – 0.6mm "KULPRO" ROOF SHEETING IN CHROMAQUEE FINISH
ON 76x50mm S&B FURLING AT MAX 1200mm/c/c ON PATENT & APPROVED FIRE
RESISTANT ROOF TRUSS SYSTEM
- 2. RIDGE CAPPING – STANDARD FACTORY MANUFACTURED RIDGES AND
FLASHINGS IN LINE TO MATCH ROOF COVERING.
- 3. FACIA & GUTTERS – 250x100mm THICK TR72 PRESSED BRICK CEMENT FACIA, SCREW
FIXED TO TRUSS ENDS & COUNTER BATTEN WITH COUNTERSUNK BRASS SCROWS.
PREFABRICATED UNIVERSAL UNDERCUT & TWO COATS POLYURETHANE POLYUR
ACRYLIC EVA PAINT
X 100 x 0.6mm GUTTERS WITH 100mm DIA RAINWATER DOWNPIPES WITH
CHROMAQUEE FINISH
- 4. TRUSS SYSTEM – MANUFACTURED TO APPROVED PRE-FABRICATED SYSTEM AT
MAX 1200mm S&B FURLING SLO 30° 30mm S&B FURLING C/C 1400mm/c/c MAX
WALL PLATE 114 x 38mm S&B PAINT TO BE DRESSCODE TREATED BEFORE FIXING.
CERTIFICATE & QUOTATIONS FOR DESIGN & ERECTION TO BE SUPPLIED BY
TRUSS MANUFACTURER. ALL EXPOSED TRUSS SECTIONS AS WELL AS SECTIONS
IN CONTACT WITH NET TRACES TO BE DRESSCODE TREATED BEFORE FIXING
INTO POSITION. TRUSS TO BE SECURED TO WALLS WITH ALUMINIUM WITH 25mm
GALV. STEEL WIRE TIES, BUILT INTO GUTS WITH 6 BRICK COURSES.

DIE ONTWERP OP HERDIE
 TEKENING BILJ DIE EENDOM
 VAN DIE ARCHITEKTE
 KOPKEER TOEBEHOU

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REV. No.:	DATE	DRAWN	DESCRIPTION

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PRINCIPAL AGENT



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PROJEK/PROJECT

Molai Jubilee Secondary School

DRAWING

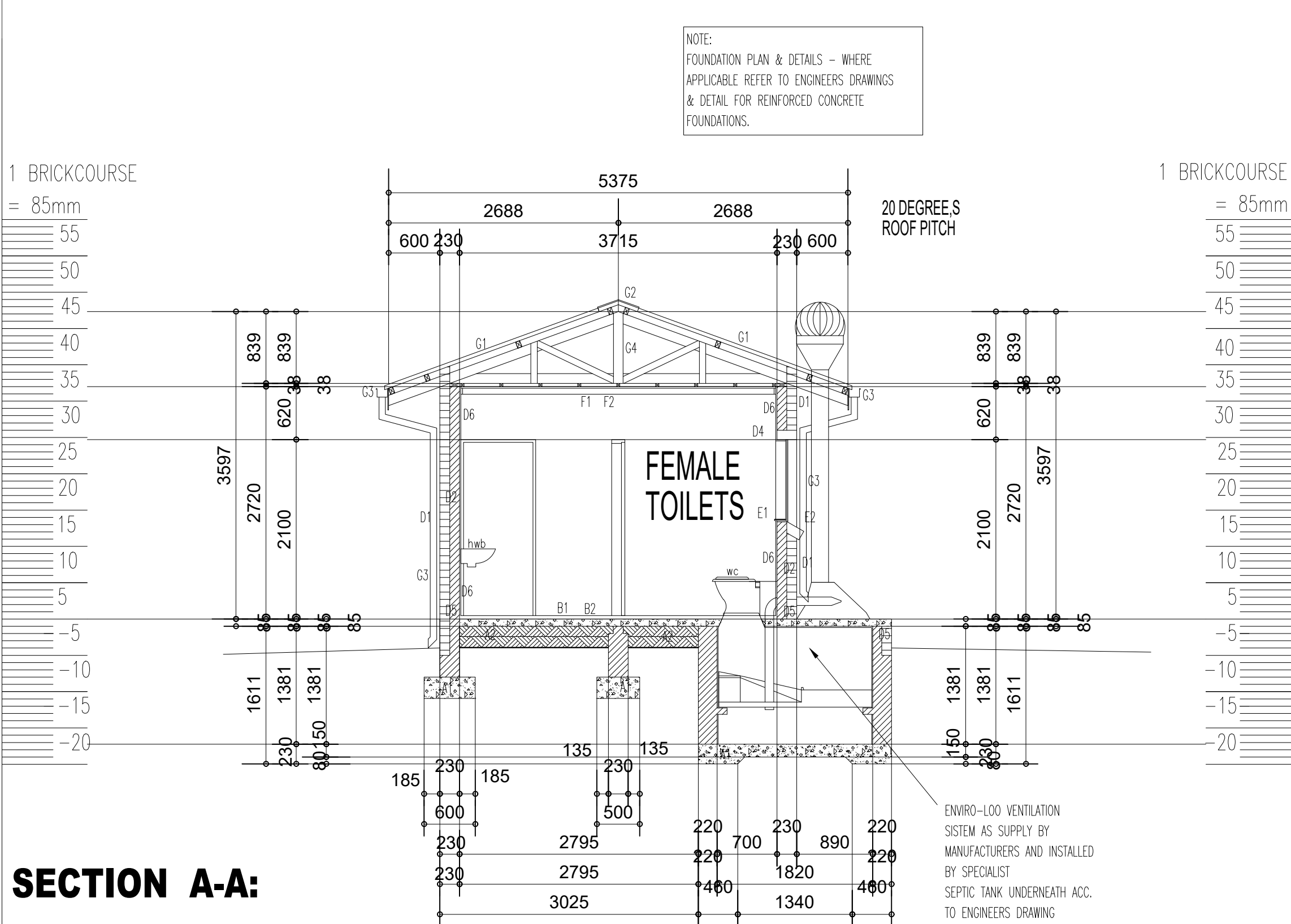
X2 FEMALE AND MALE TOILETS ROOF
PLAN, CEILING PLAN, SECTION, AND
FOUNDATION PLAN.

ISSUED FOR UITGEPREK VIR	PRELIMINARY VOORLOPIG	INFORMATION INLIGTING	TENDER—CONTRACT TENDER—KONTRAK	MEASUREMENT METTING	CONSTRUCTION KONSTRUKSIE	APPROVAL GOEDKEURING	SIGNATURE HANDTEKENING	DATE DATUM
PROJECT No./PROEKT No.	TEKENING No./ DRAWING No.			REVISION No./ WYSIGINGS No.				
VC-L19-02	VC-L19-02-x2TL-200-01			00				

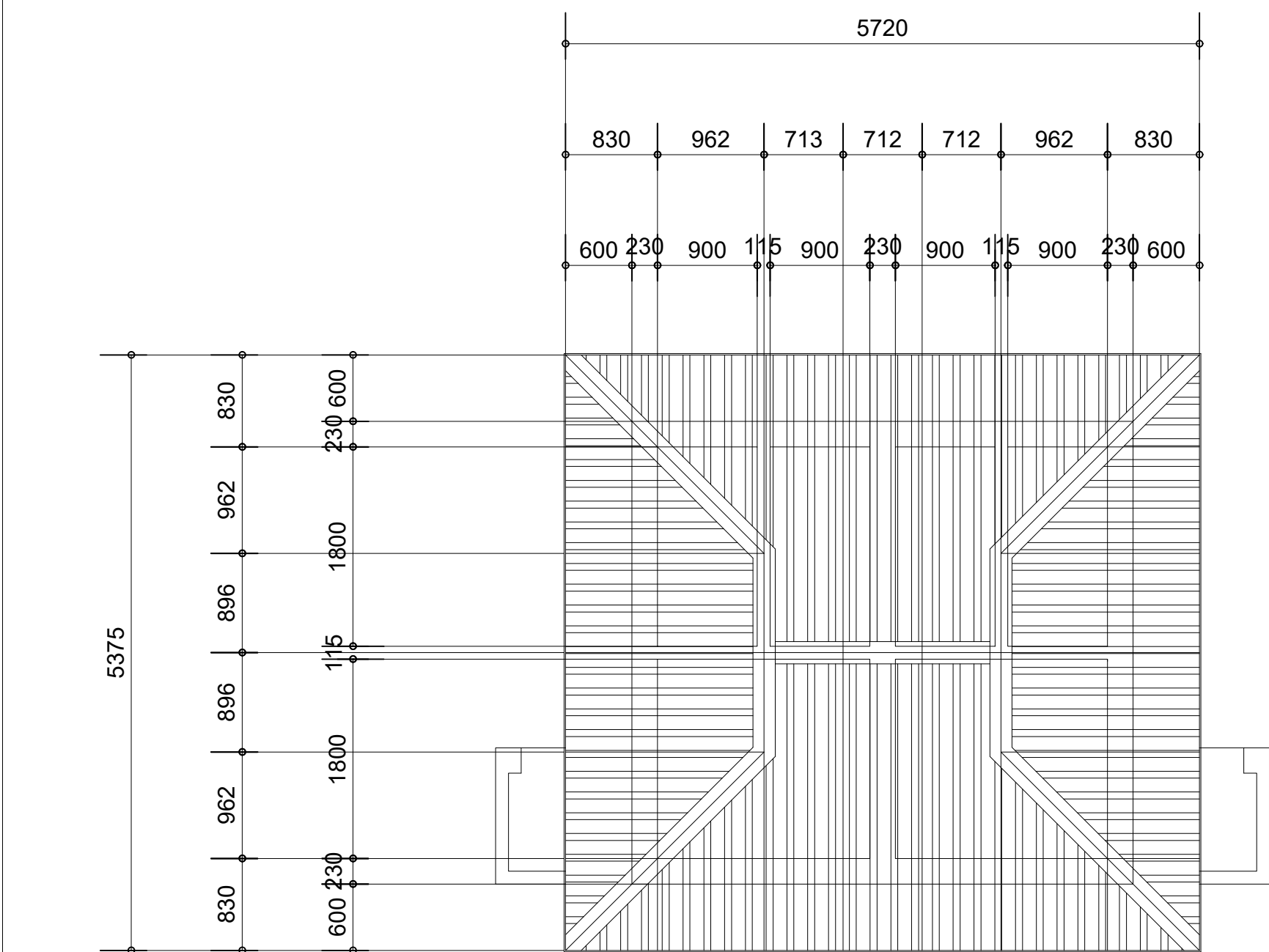
FASE/STAGE	WORKING DRAWINGS
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SKALA/SCALE 1:100	DATUM/DATE 01/2019	GETEKEN/DRAWN XJ THEMBA	NAGESIEN/CHECKED NL BHEMBE
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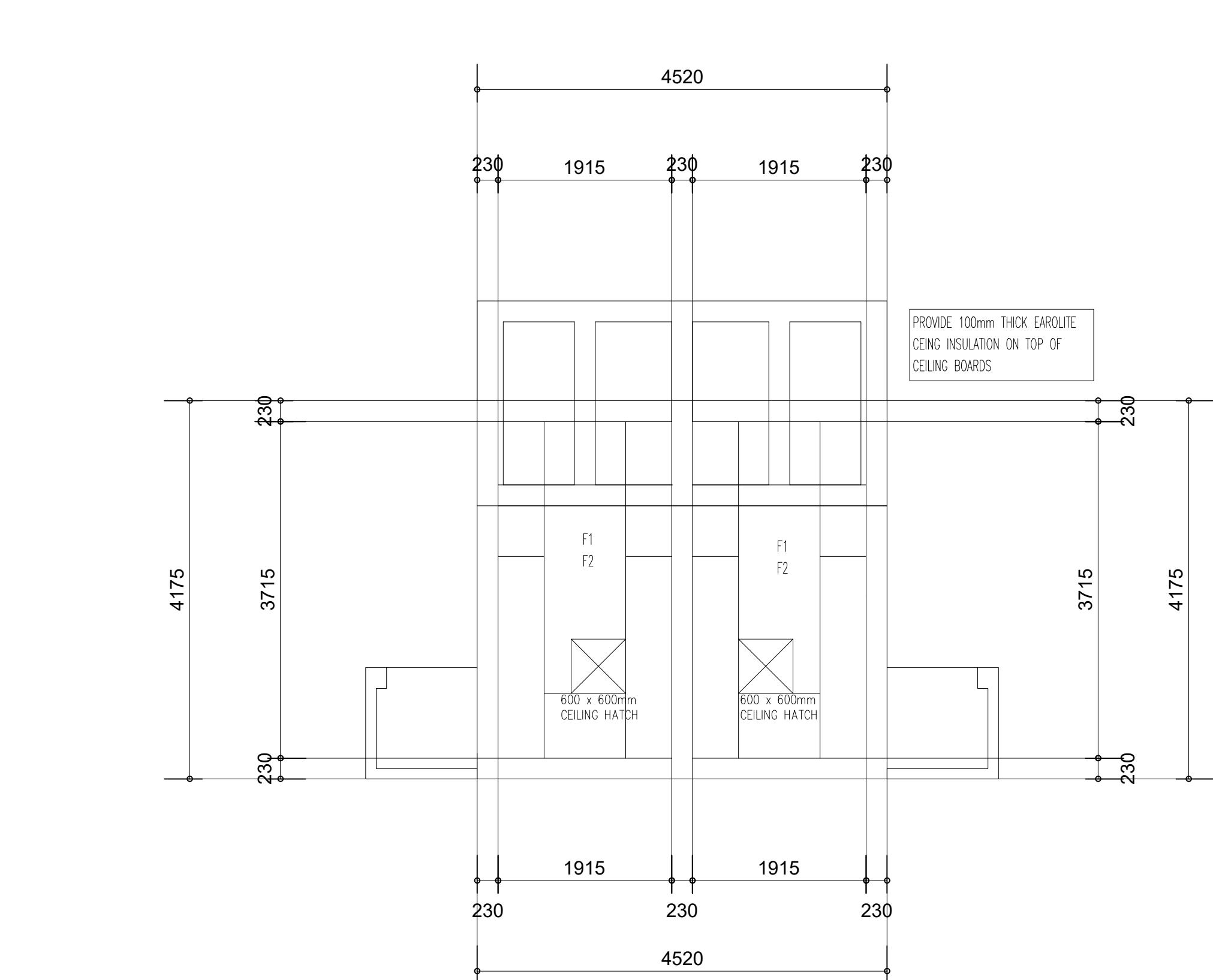
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1:100	01/2019	X.I. THEMBA	N.I. BHEMBE



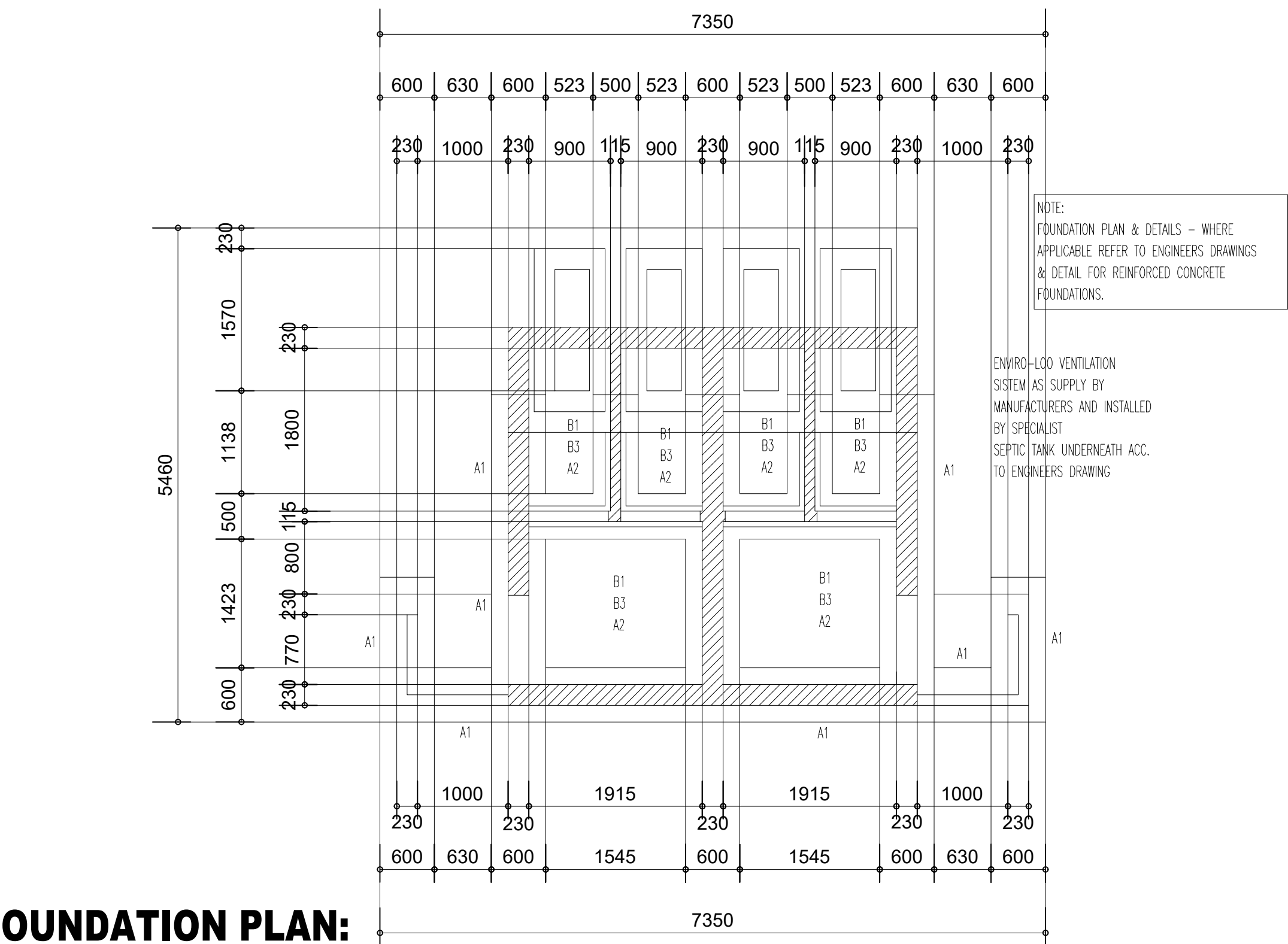
SECTION A-A:
Scale 1:50.



ROOF PLAN:
MALE AND FEMALE TOILETS:
ENVIRO-LOO:
Scale 1:50.



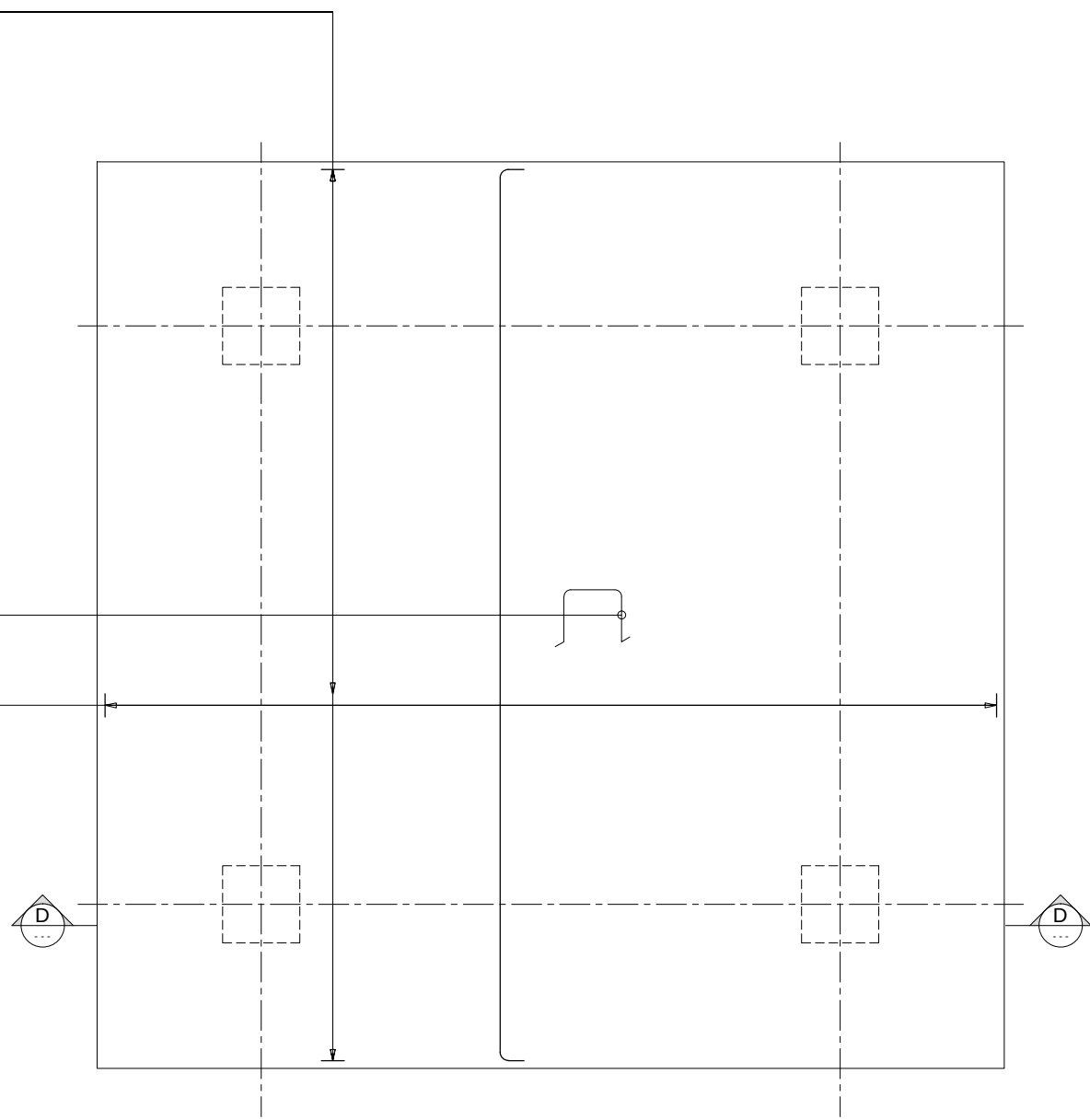
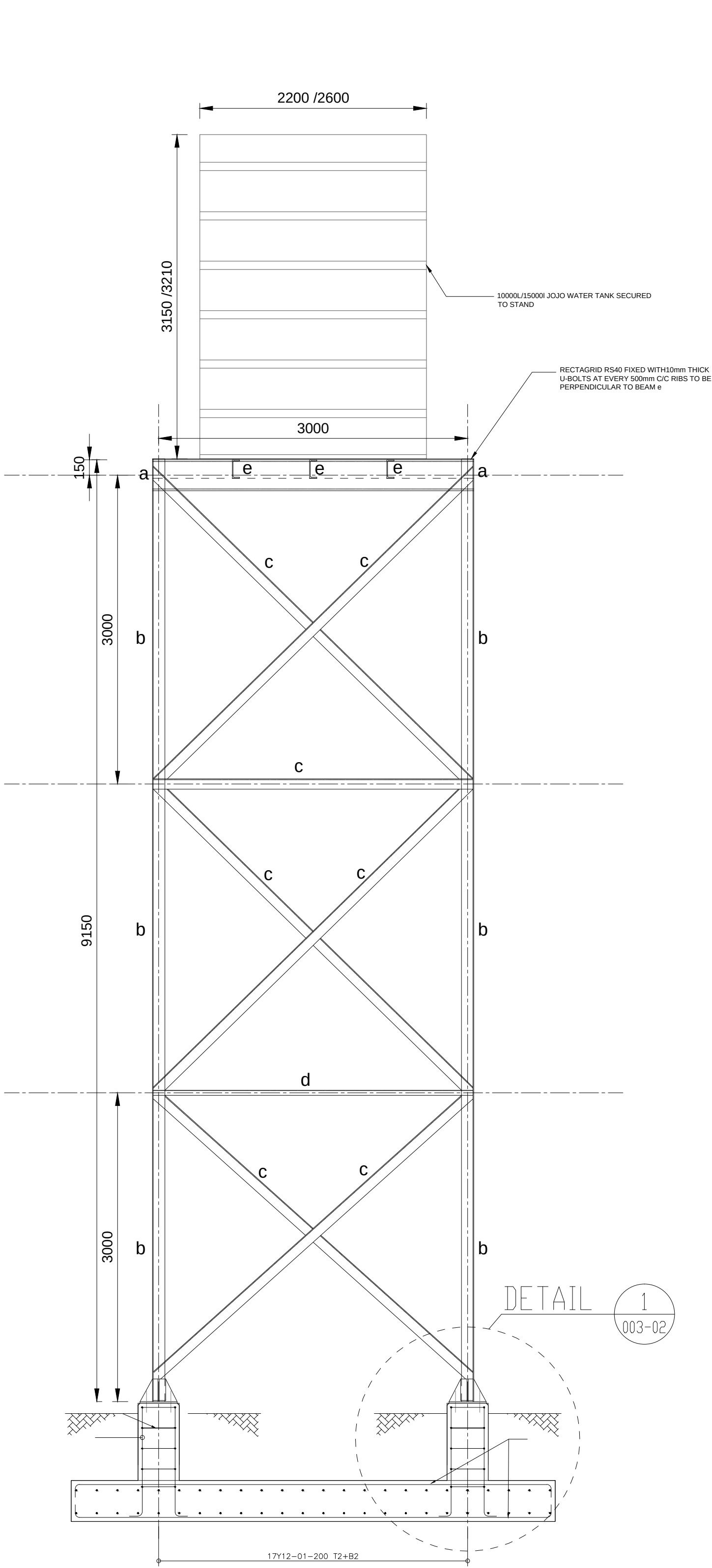
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MALE AND FEMALE TOILETS:
ENVIRO-LOO:
Scale 1:50.



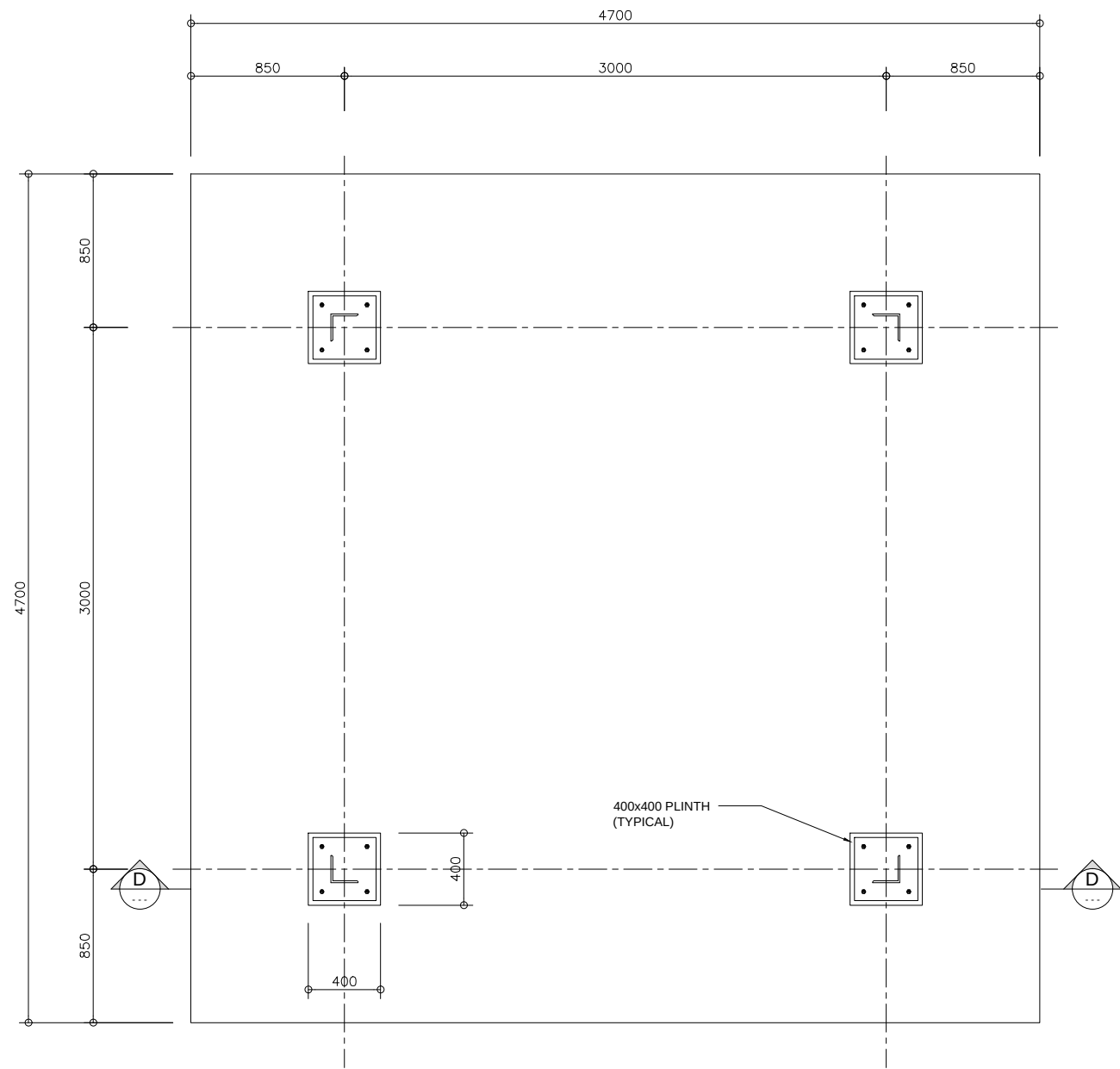
FOUNDATION PLAN:
MALE AND FEMALE TOILETS:
ENVIRO-LOO:
Scale 1:50.

CONSTRUCTION NOTES

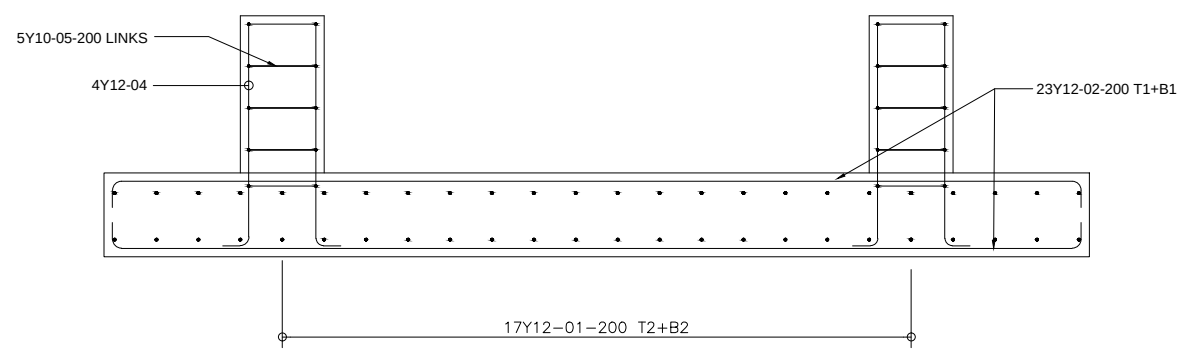
- Foundations:
- A1. STRIP FOUNDATIONS – 700x250mm 15Mpa CONCRETE STRIP FOUNDATION.
TOP OF FOUNDATION TO BE MIN 340mm BELOW N.G.L.
- A2. FILLING – APPROVED HARDWARE FILLING COMPACTED IN LAYERS OF MAX. 150mm. FILLING TO BE TREATED WITH SABS APPROVED INSECTICIDE AND WEED KILLER TO COMPLY WITH SABS 1164 & 1165.
- Surfacebeds & floors:
- B1. SURFACEBED – 85mm THICK 15Mpa CONCRETE SURFACEBED ON USB GREEN 250 MKRON DAMP PROOF MEMBRANE. SURFACEBED CAST IN SECTIONS OF MAX. 2000mm.
- B2. SCREED & FLOOR FINISH – "Marley Super Metro" 25mm THICK FULLY FLEXIBLE VINYL FLOOR SHEETING ON 1:4 SMOOTH CEMENT SAND SCREED TO A TOTAL THICKNESS OF 30mm. ALL LAD AND FINISHED STRICTLY TO MANUFACTURERS SPEC.
- B3. SCREED & FLOOR FINISH – 30mm 1:4 CEMENT SAND SCREED TO RECEIVE "Marley" 2mm THICK FULLY FLEXIBLE VINYL ASBESTOS FLOOR TILES, LAD STRICTLY TO MANUFACTURERS SPEC.
- B4. APRON – 1200mm WIDE 15Mpa CONCRETE APRON WITH WOOD FLOAT FINISH. APRON TO BE CAST IN LENGTHS OF MAX. 3m & TO HAVE A 1:100 FALL AWAY FROM BUILDING.
- Skirtings:
- C1. SKIRTING – 70mm HIGH "MARLEY" RIDGED PVC SKIRTING SCREWED AND PLUGE TO WALL AT 450mm C/C.
- Walls & Structure:
- D1. EXTERNAL WALLS – APPROVED FACEBRICK WALLS IN STRETCHERBOND TO RECEIVE 10mm WIDE x 6mm DEEP SQUARE RECESSED JOINTS IN BOTH DIRECTIONS.
- D2. BRICKFORCE: BRICK FORCE TO 230 AND 115 WALLS FOUNDATION WALLS – EVERY 2ND COURSE, SUPERSTRUCTURE – EVERY 4TH COURSE. OVER OPENINGS FORMED IN BRICKWORK, EVERY COURSE FOR 4 COURSES EXTENDING 500mm BEYOND OPENING IN BOTH DIRECTIONS.
- D3. 228x76mm SAP BEAM TO BE BUILT IN & TIED DOWN TO FACEBRICK COLUMNS WITH 2.5mm GALVANISED WIRE TIES. BEAM TO BE CREOSOTE TREATED PRIOR TO BEING BUILT IN.
- D4. LINTOL – APPROVED FACEBRICK ON EDGE LINTOL OVER ALL WINDOW & DOOR OPENINGS. BRICKWORK TO RECEIVE 100mm SQUARE RECESSED JOINTS.
- D5. D.P.C. – PROVIDE 375 MKRON DPC IN WALLS AT FLOOR LEVEL & UNDER ALL EXTERNAL WINDOW CILLS.
- D6. INTERNAL WALLS – APPROVED STOCKBRICK WALLS IN STRETCHERBOND TO RECEIVE 1 x COAT SMOOTH 1:5 CEMENT SAND PLASTER TO RECEIVE 1MMBIT UNIVERSAL UNDERCOAT AND TWO COATS PLUSCON POLYVIN SUPER ACRYLIC PVA. COLOUR AS PER ARCHITECT.
- D7. WALL TILES – PROVIDE STANDARD 150x150mm WHITE GLAZED WALL TILES FROM FLOOR TO TOP OF WINDOW HEIGHT (2295mm). TILES TO BE LAD WITH MANUFACTURERS APPROVED TILING ADHESIVE, AND WHITE TILING GROUT.
- Window Sills:
- E1. INTERNAL WINDOW CILL – 15mm THICK FIBRE CEMENT WINDOW SILL BEDDED IN 1:4 CEMENT SAND MORTAR. SAND & APPLY ALKALI RESISTANT SEALER AND TWO COATS WAT ENAMEL PAINT.
- E2. EXTERNAL WINDOW CILL – APPROVED FACEBRICK ON EDGE, TO MATCH WALLS. JOINTS TO BE SQUARE & RECESSED.
- Ceiling & Cornice:
- F1. CORNICE – 75mm GIPSUM COVERED CORNICE NAILED TO WALL AND CEILING AT 450mm CENTERS MAX. AND TO RECEIVE PAINT FINISH TO MATCH CEILING.
- F2. CEILING – 6mm CLADIT FIBRE CEMENT CEILING NAILED TO 38x38mm SAP BATTENS AT MAX. 400mm C/C WITH GALVANISED CLOUT NAILS. PROVIDE GALVANISED H-PROFILE JOINTING STRIPS TO BE PRE PAINTED. PREPARE AND APPLY 1MMBIT UNIVERSAL UNDERCOAT & TWO COATS PLUSCON POLYVIN SUPER ACRYLIC PVA PAINT.
- Roof & Facia:
- G1. ROOF SHEETING – 0.6mm "XLPLOW" ROOF SHEETING IN CHROMADECK FINISH ON 76x50mm SAP PURLING AT MAX. 1200mm C/C ON PATENT & APPROVED PRE-FABRICATED ROOF TRUSS SYSTEM.
- G2. RIDGE CAPPING – STANDARD FACTORY MANUFACTURED RIDGES AND FLASHINGS IN FINISH TO MATCH ROOF COVERING.
- G3. FACIA & GUTTERS – 250x100mm THICK FC77 PRESSED FIBRE CEMENT FACIA, SCREW FIXED TO TRUSS ENDS & COUNTER BATTEN WITH COUNTERSUNK BRASS SCREWS. PREPARE & APPLY ONE UNIVERSAL UNDERCOAT & TWO COATS PLUSCON POLYVIN SUPER ACRYLIC PVA PAINT.
- G4. TRUSS SYSTEM TIMBER PATENT & APPROVED PRE-FABRICATED SYSTEM AT 1200mm C/C MAX. PURLING 50 x 76mm SA PINE AT 1400mm C/C MAX. WALL PLATE 114 x 38mm SA PINE TO BE CREOSOTE TREATED BEFORE FIXING. CERTIFICATE & GUARANTEE FOR DESIGN & ERECTION TO BE SUPPLIED BY TRUSS MANUFACTURER. ALL EXPOSED TIMBER SECTIONS AS WELL AS SECTIONS IN CONTACT WITH WET TRADES TO BE CREOSOTE TREATED BEFORE FIXING INTO POSITION. TRUSS TO BE SECURED TO WALLS AT WALLPLATE WITH 2.5mm GALV. STEEL WIRE TIES, BUILT INTO WALLS MIN 6 BRICK COURSES.



FOUNDATION REINFORCEMENT LAYOUT
SCALE 1 : 25

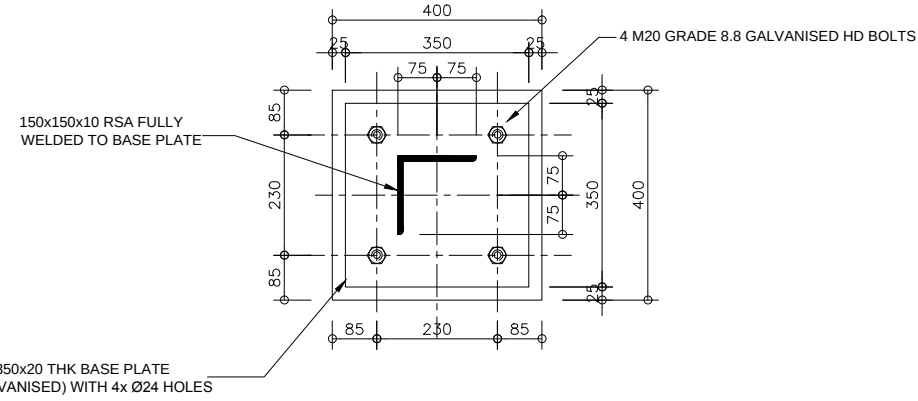


FOUNDATION LAYOUT
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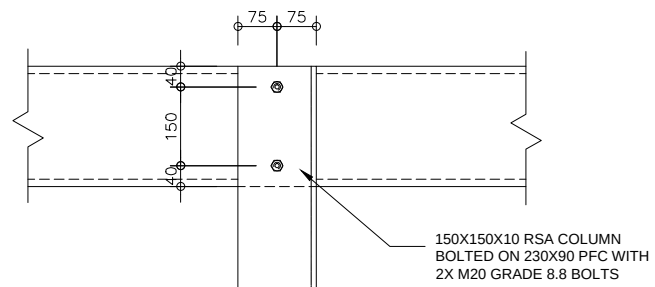


SECTION D-D
SCALE 1 : 25

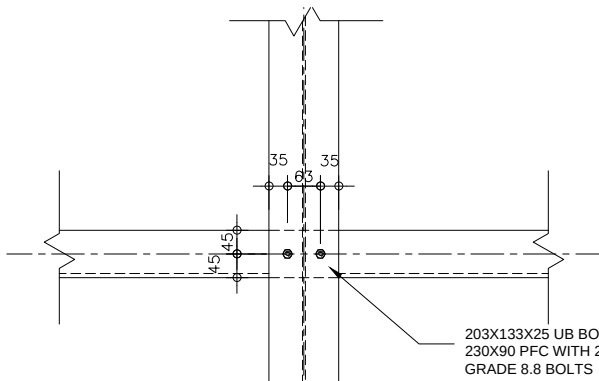
STEEL LEGEND		
Mark	Size	Description
a	203x133x25 UB	BEAM
b	230x90 PFC	BEAM
c	150x150x10 L	COLUMN
d	125x75x8 RSA	BEAM
e	90x90x8 RSA	CROSS BRACING
f	90x90x8 RSA	HORIZONTAL BRACING



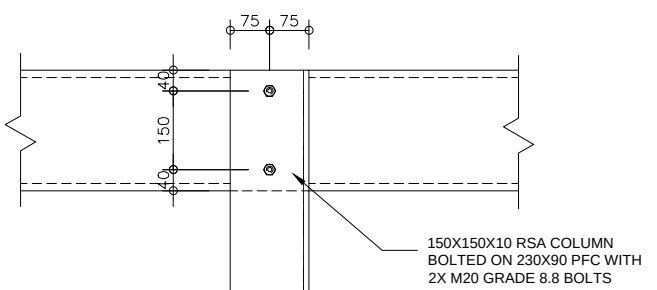
SECTION C-C
SCALE 1 : 10



DETAIL 2
SCALE 1 : 10



DETAIL 3
SCALE 1 : 10



DETAIL 2
SCALE 1 : 10

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4. ALL WATERPROOFING AND EARTH POISONING DETAILS TO BE IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATION AND INSTRUCTIONS.

CONCRETE NOTES:
FOUNDATIONS
1.1 EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
1.2 ALL FOUNDATIONS TO BE BUILT ON FIRM IN-SITU SOIL (NOT ON FILL).
1.3 PILING LOGS TO BE USED TO RECORD DEPTH, DIAMETER, REINFORCING, DATE CAST, CUT OFF LEVEL, CONCRETE STRENGTH AND REFERENCE TO RELEVANT CUBES MADE FOR TESTING.
CONCRETE
2.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:
FOUNDATIONS: 25 MPa
GROUND BEAMS: 25 MPa
COLUMNS & WALLS: 25 MPa
SURFACE BEDS (INTERNAL): 25 MPa
SURFACE BEDS (EXTERNAL): 25 MPa
SUSPENDED SLABS: 25 MPa
2.2 NOMINAL CONCRETE AGGREGATE SIZE 19mm
2.3 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.
2.4 ALL CONCRETE TO BE CONSTRUCTED TO THE SABS 1200 G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS OTHERWISE SPECIFIED.
2.5 CONCRETE CUBE TESTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL.

REINFORCEMENT
3.1 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY THE ENGINEER BEFORE ANY CONCRETE IS CAST.
3.2 LAP LENGTH TO REINFORCING TO BE MIN. 50 x SMALLER DIAMETER, UNLESS OTHERWISE NOTED.
3.3 MINIMUM COVER TO REINFORCING:
PILE CAPS & GROUND BEAMS 50mm
COLUMNS & WALLS 30mm
STRIP & PAD FOUNDATIONS 50mm
SUSPENDED SLABS 30mm
BEND TO SLABS 30mm
3.4 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE.
3.5 REINFORCING YIELD STRENGTH:
HIGH TENSILE 'Y' 450 MPa
MILD STEEL 'R' 250 MPa
WELDED STEEL WIRE MESH 485 MPa

FORMWORK
4.1 STRIPPING TIMES FOR:
COLUMN AND WALL SHUTTERING 15 DAYS
SLAB PROPS 14 DAYS
BEAM PROPS 21 DAYS
4.2 CONCRETE FINISHES:
SURFACEBED POWER FLOAT
SUSPENDED SLABS WOOD FLOAT
COLUMNS & WALLS OFF SHUTTER
BEAMS OFF SHUTTER
SLAB SOFFIT OFF SHUTTER

0	03/08/18	ISSUED FOR CONSTRUCTION	EL
REV	DATE	COMMENTS	BY

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Kempston Park, 1519
P.O. Box 2106, Johannesburg, 2000
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Architect:

Client:

DEPARTMENT OF
EDUCATION

Client:

Independent Development Trust

Project:
MOLAI-JUBILEE SECONDARY SCHOOL

Drawing Title:

REINFORCEMENT

Consultant's Signature:

R.KHOROMBI.....

Drawn:	Checked:	Designed:	Scale:
P. MAAKE	R.KHOROMBI	P. LOUW	AS SHOWN

Job Number:	Discipline:	Dwg Number:	Rev:	Dwg Size:
201411-LP-BLD	SC	004	0	A0

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REV	DATE	COMMENTS	BY

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rendeals
four consulting

Client:

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
EDUCATION

Client:

idt
Independent Development Trust

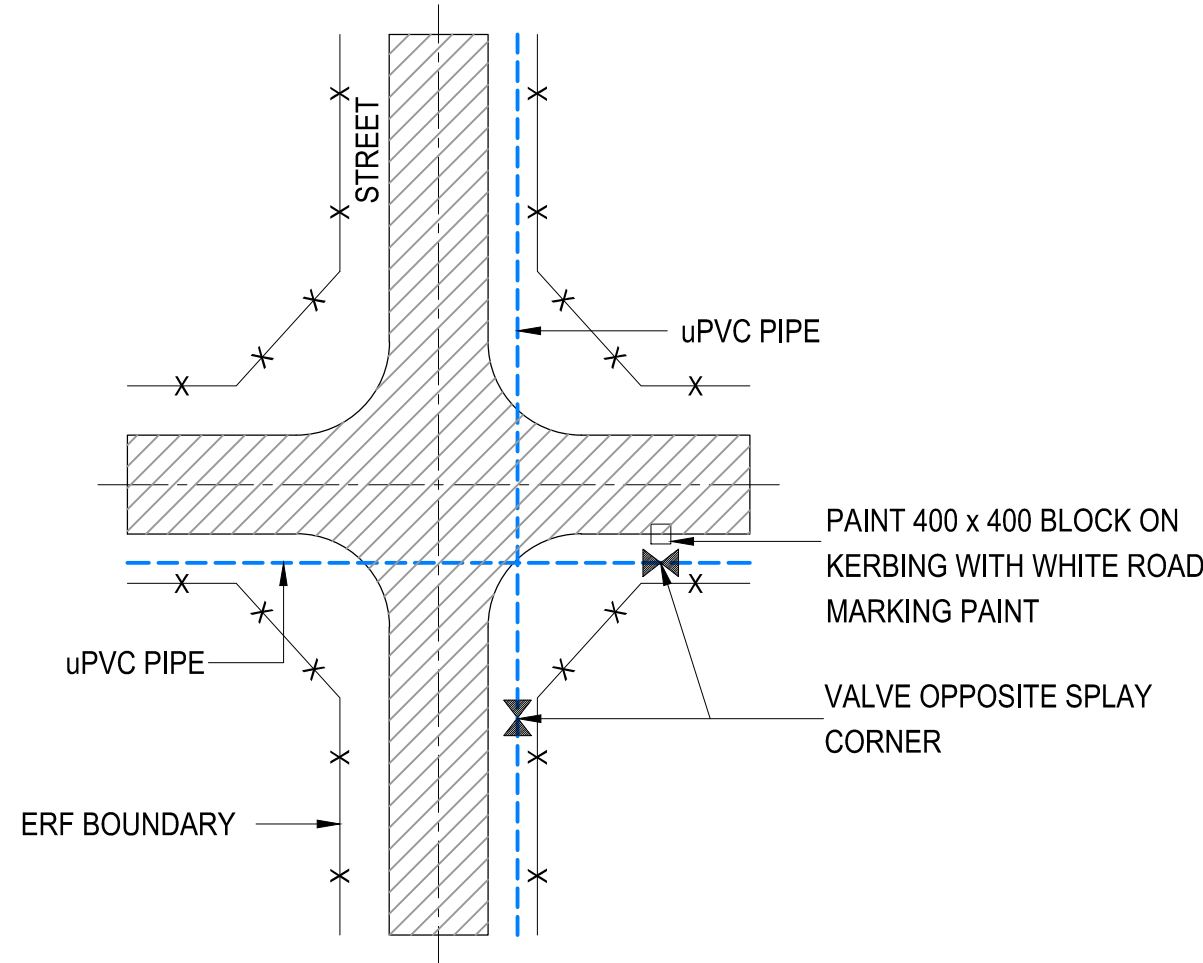
Project:

MOLAI-JUBILEE SECONDARY SCHOOL

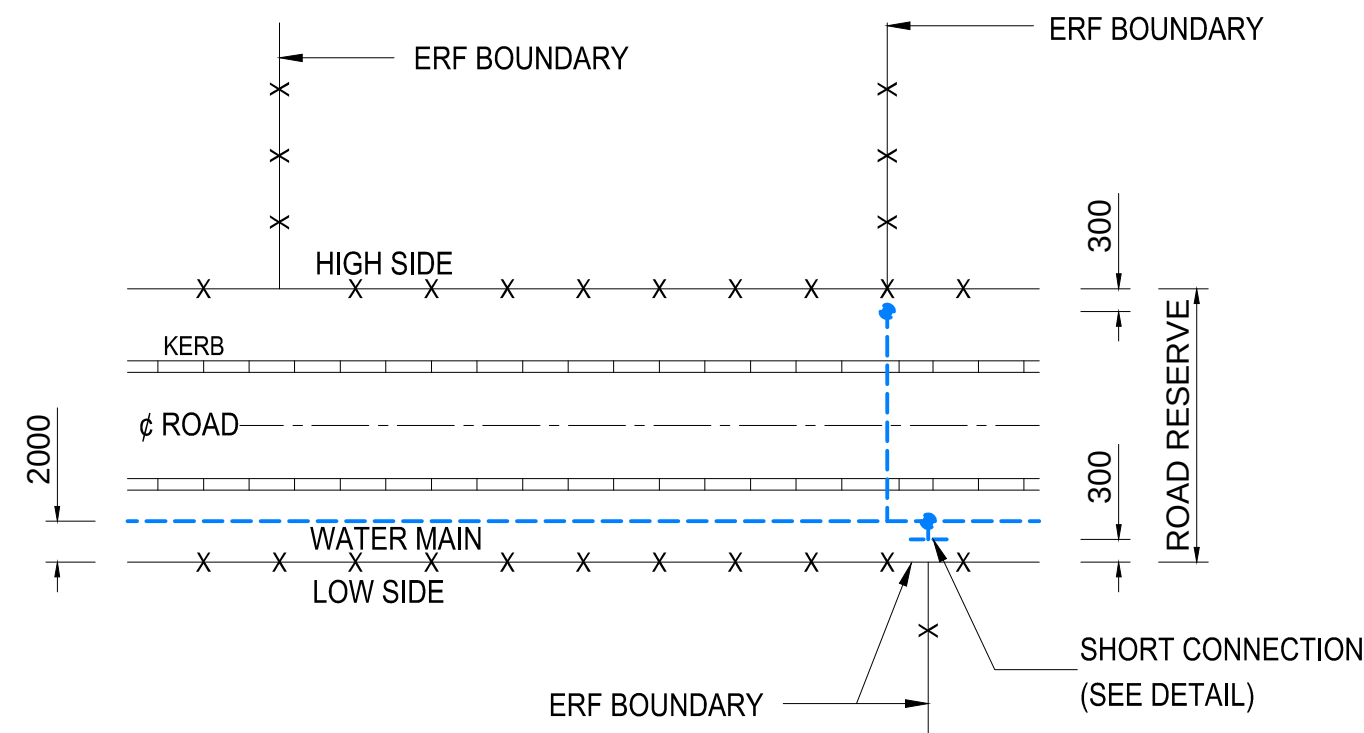
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**WATER GENERAL
TYPICAL DETAILS**

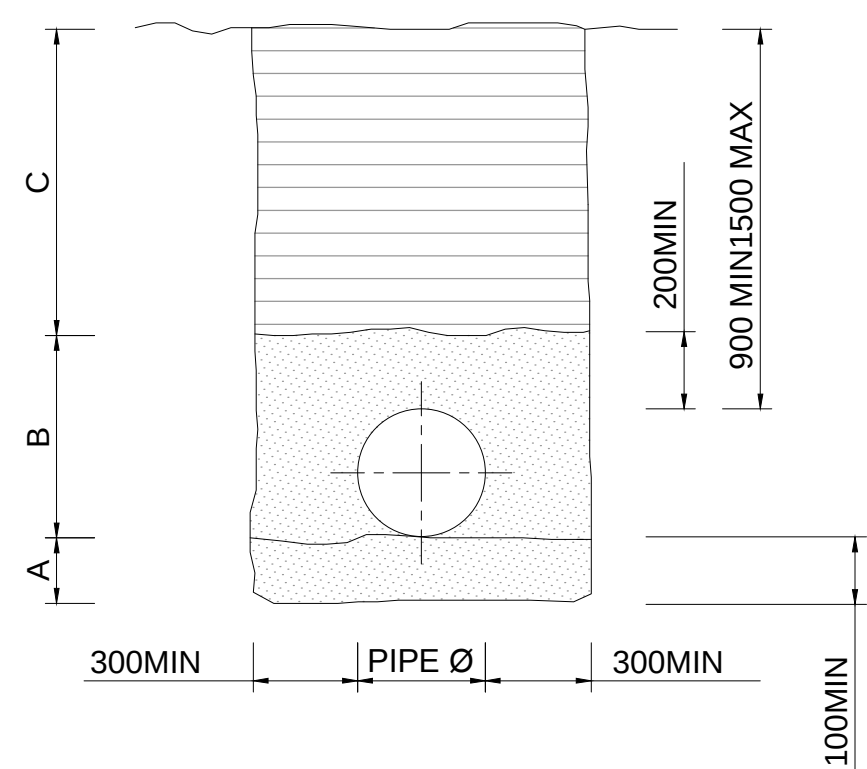
Consultant's Signature:				
R. KHOROMBI				
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201411-LP-BLD	CIV	002	A	A1



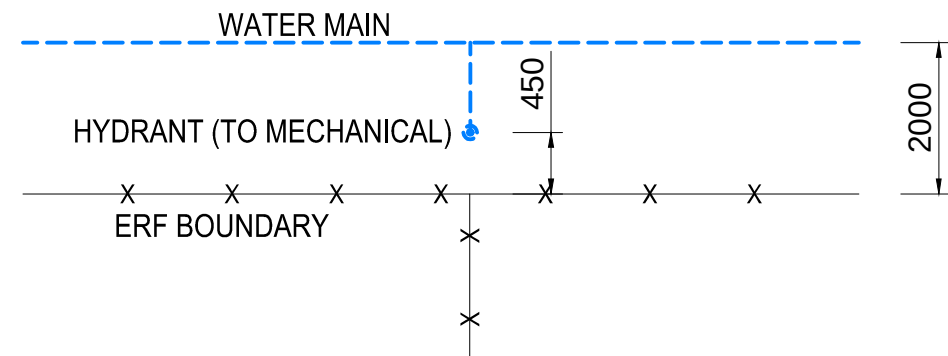
PIPE & VALVES AT INTERSECTION
NOT TO SCALE



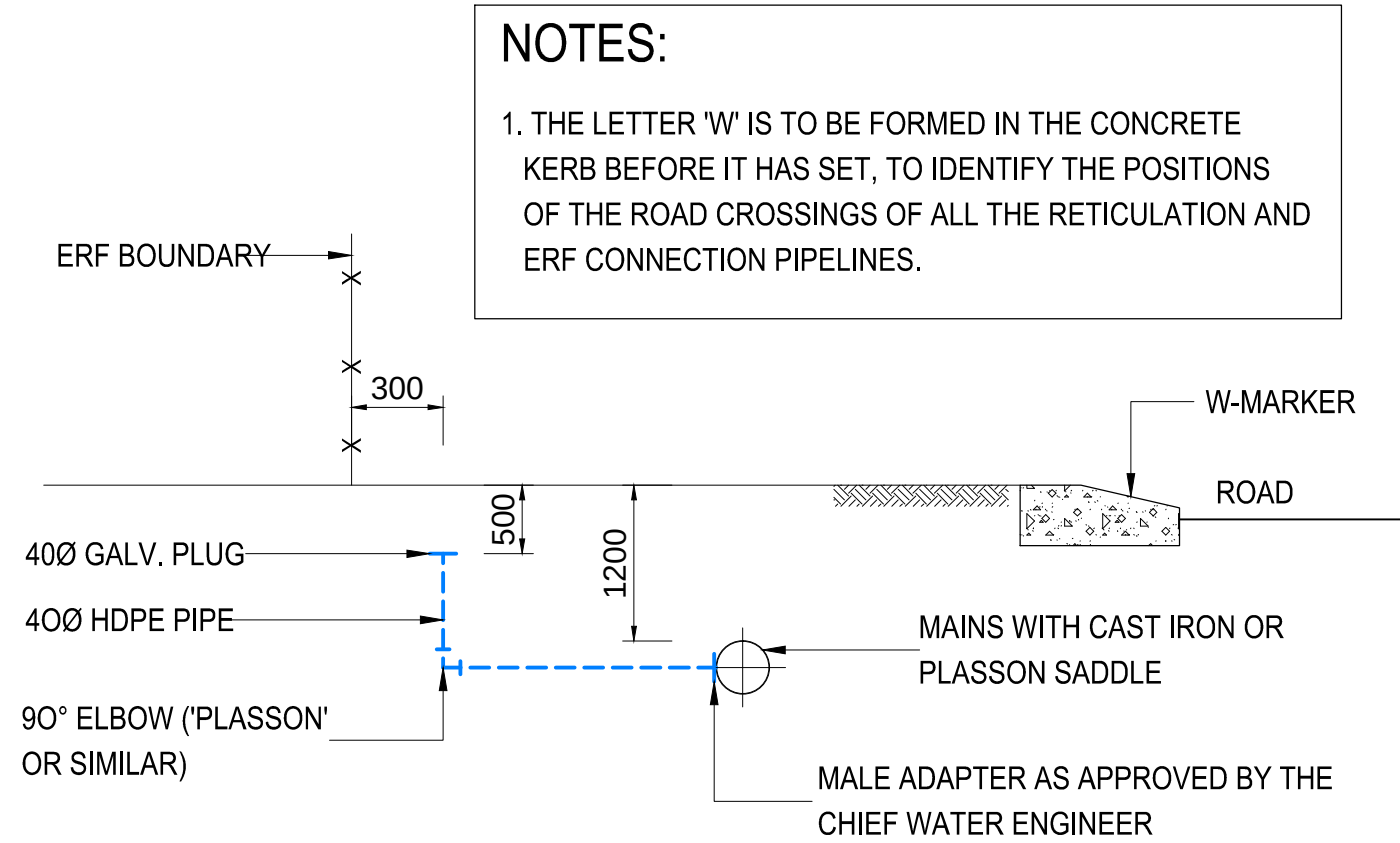
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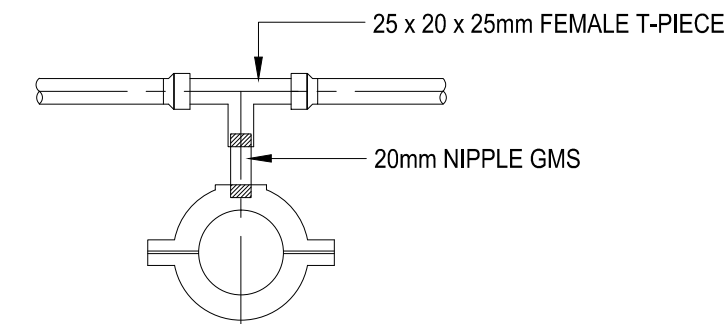
TYPICAL CROSS SECTION OF PIPE TRENCH
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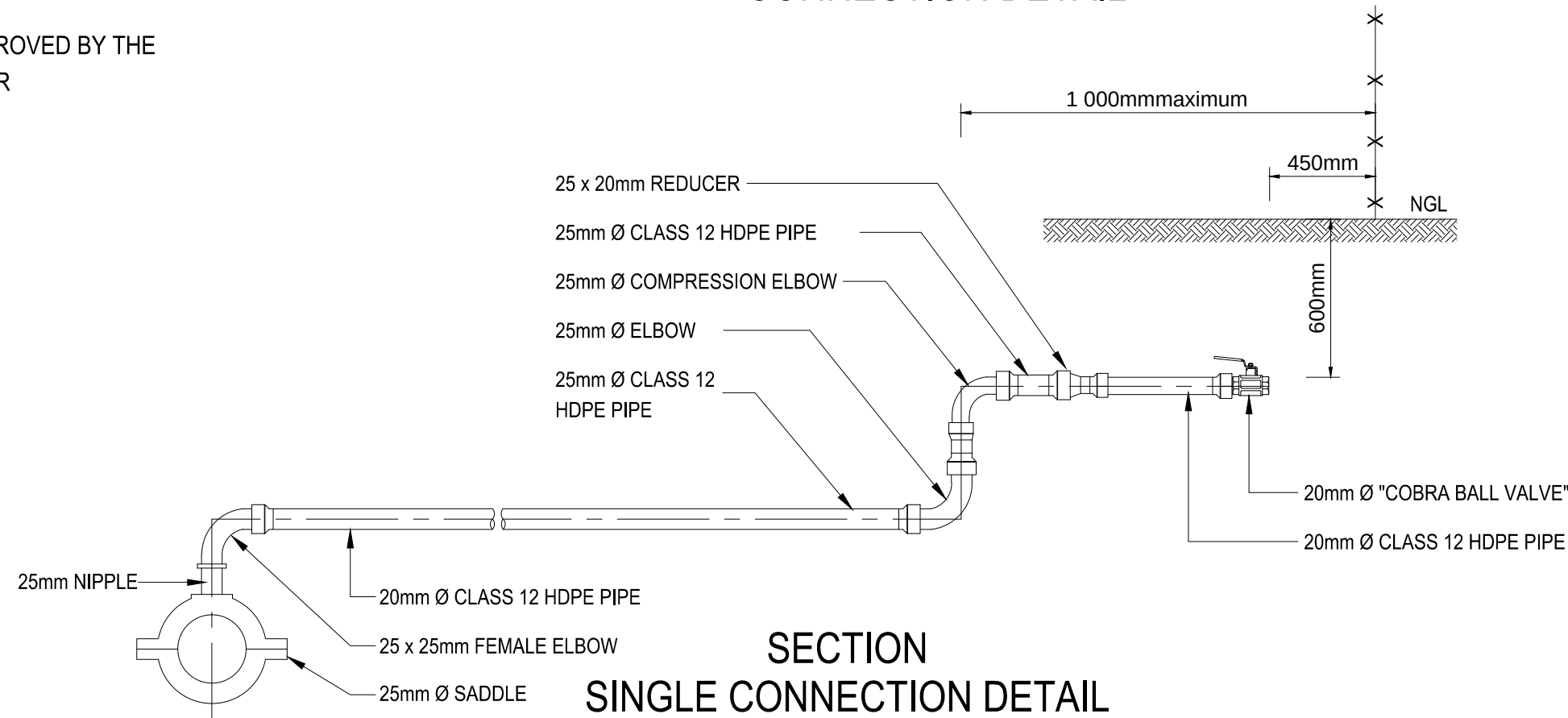
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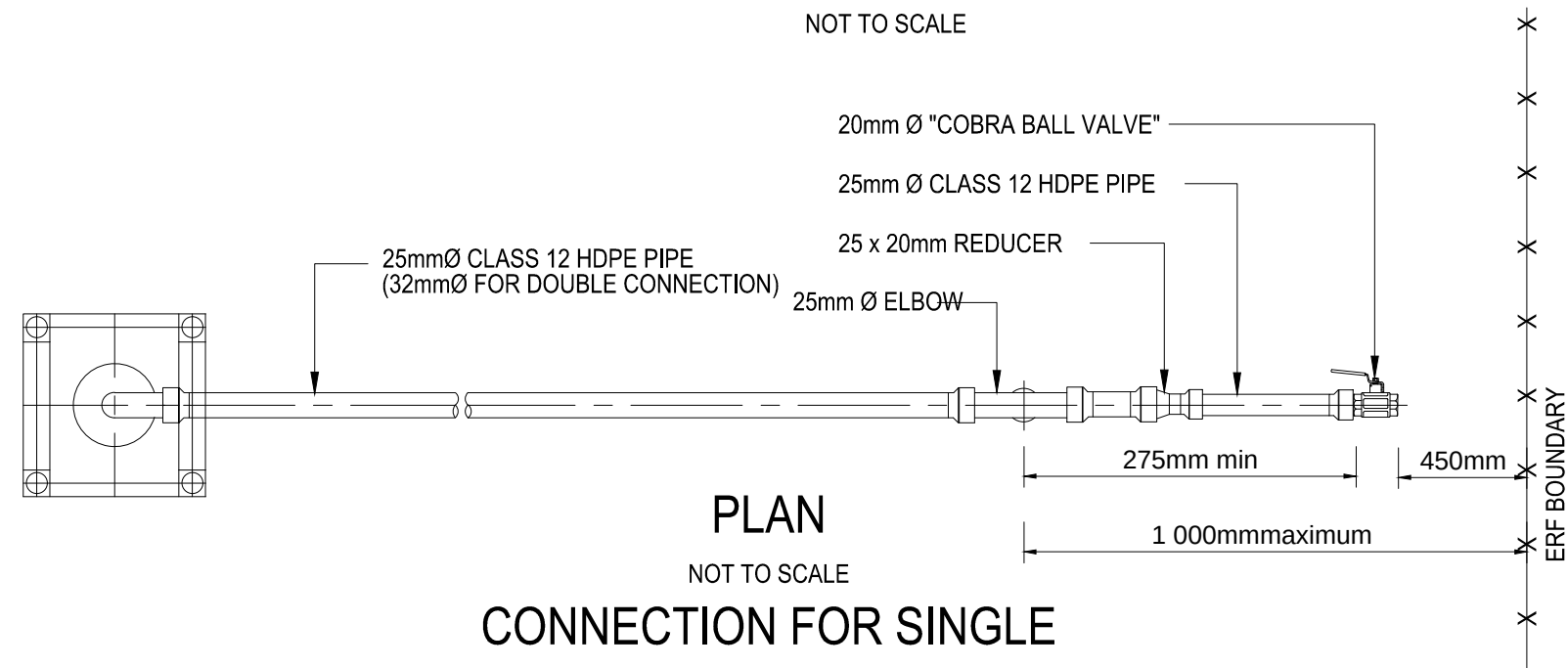
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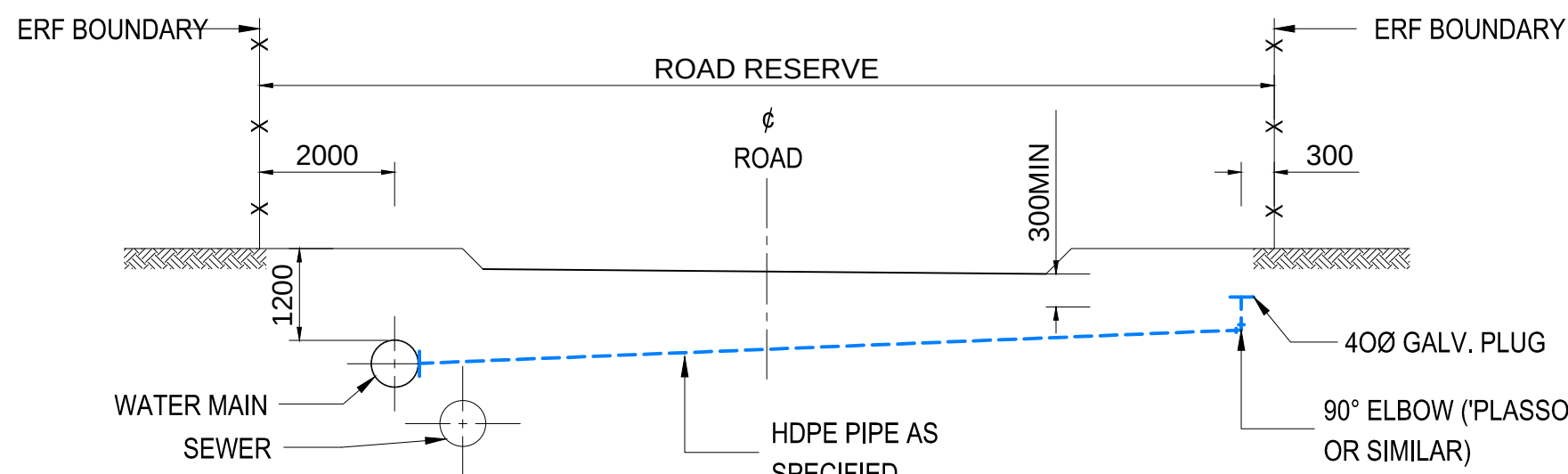
CONNECTION DETAIL



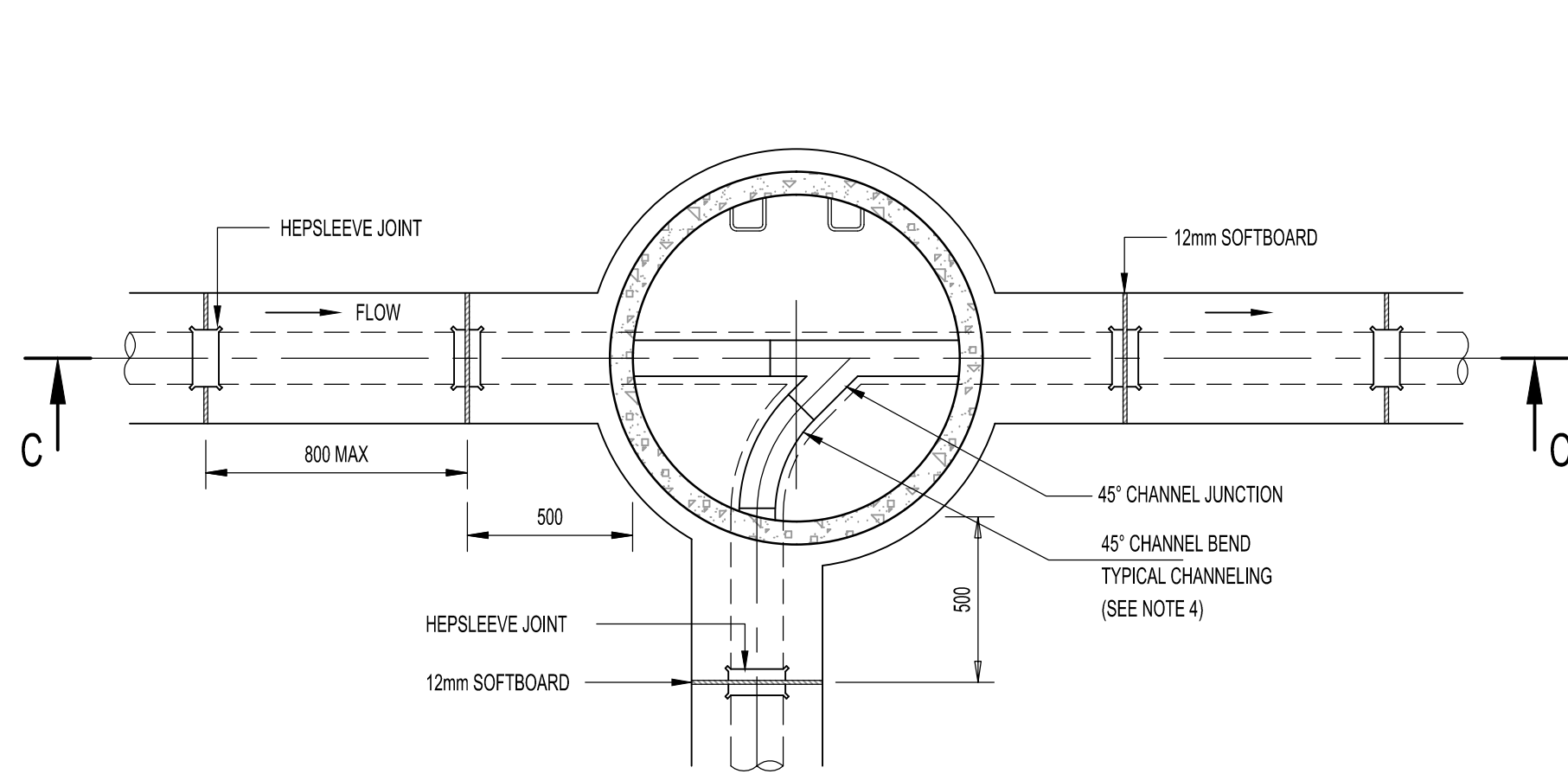
**SECTION
SINGLE CONNECTION DETAIL**
NOT TO SCALE



**PLAN
CONNECTION FOR SINGLE**
NOT TO SCALE

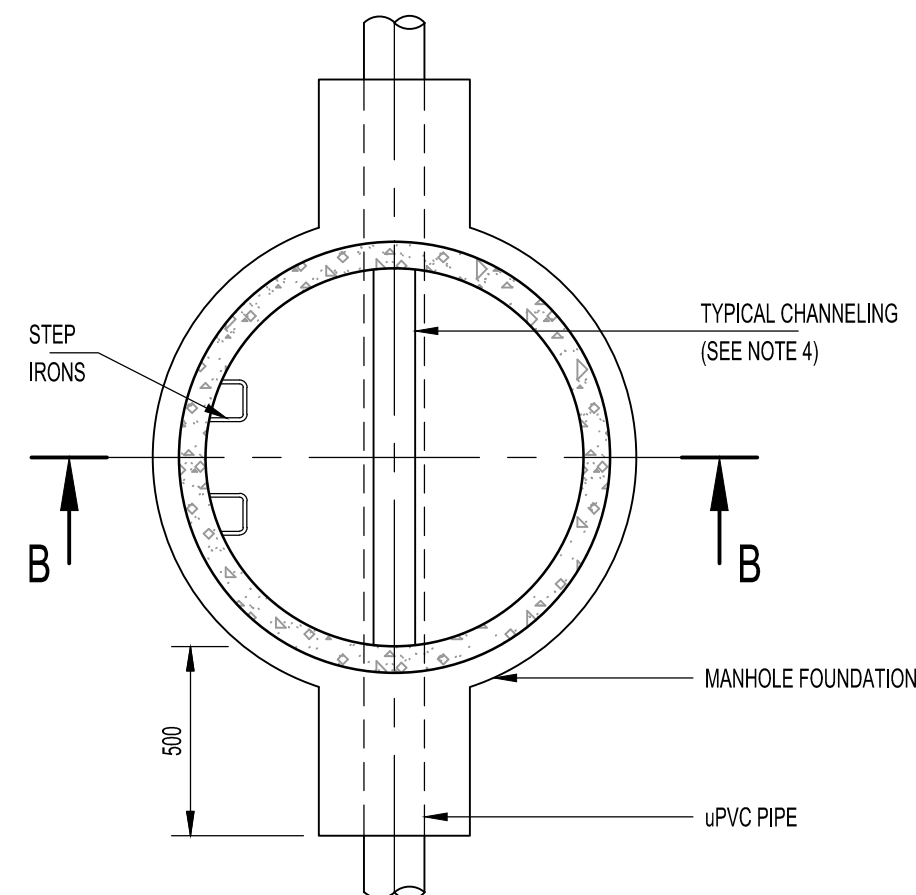


**SECTION
LONG CONNECTION**
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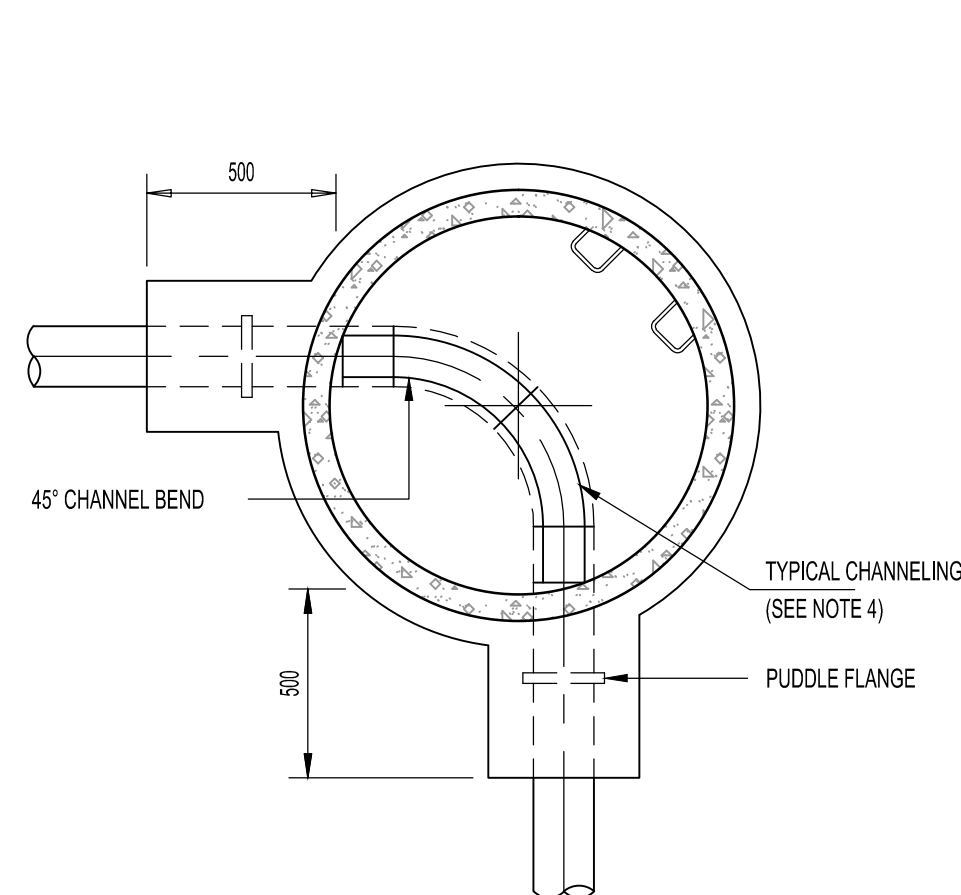
PLAN
(TYPICAL EXAMPLE WHERE
CLAY PIPES ARE USED)

SCALE 1 : 20



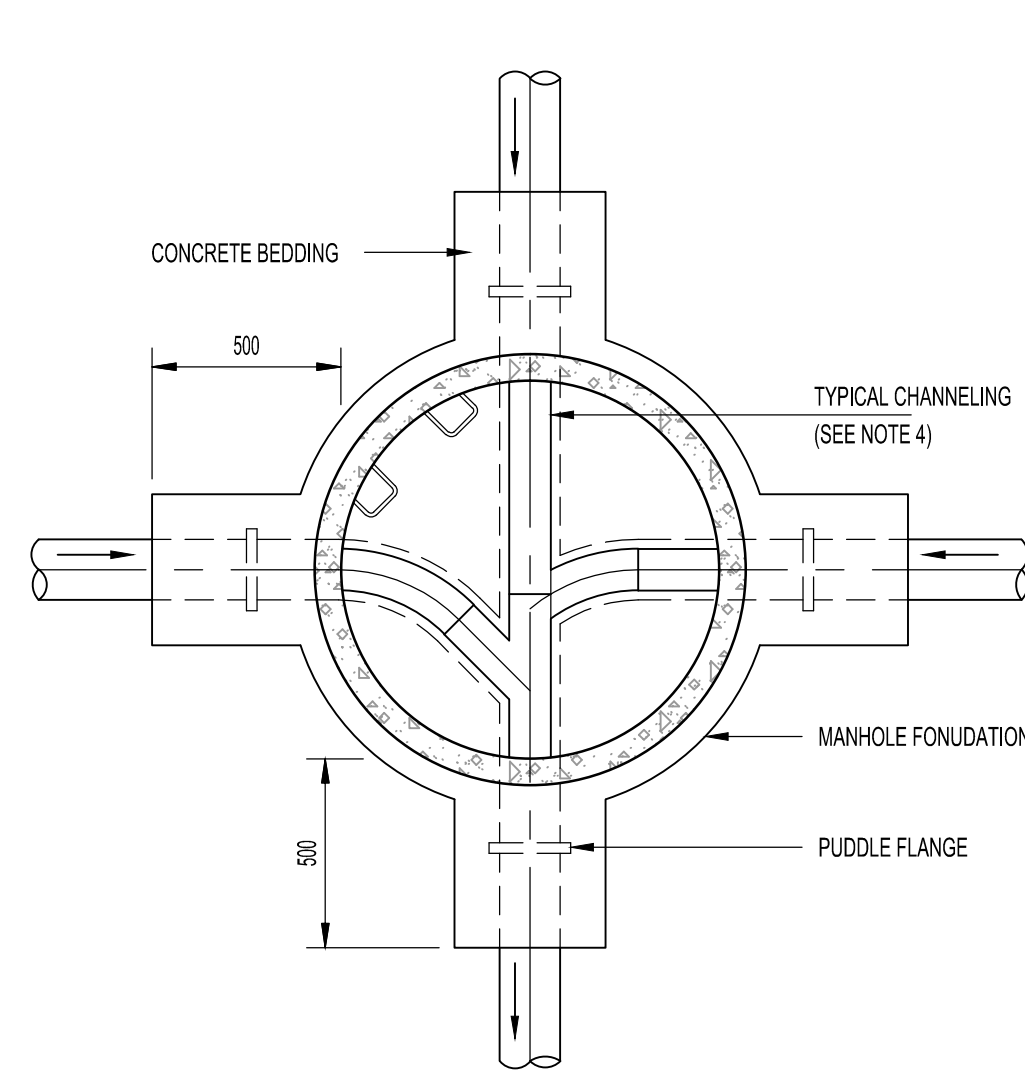
SECTION A-A
(TYPICAL EXAMPLE WHERE
uPVC PIPES ARE USED)

SCALE 1 : 20



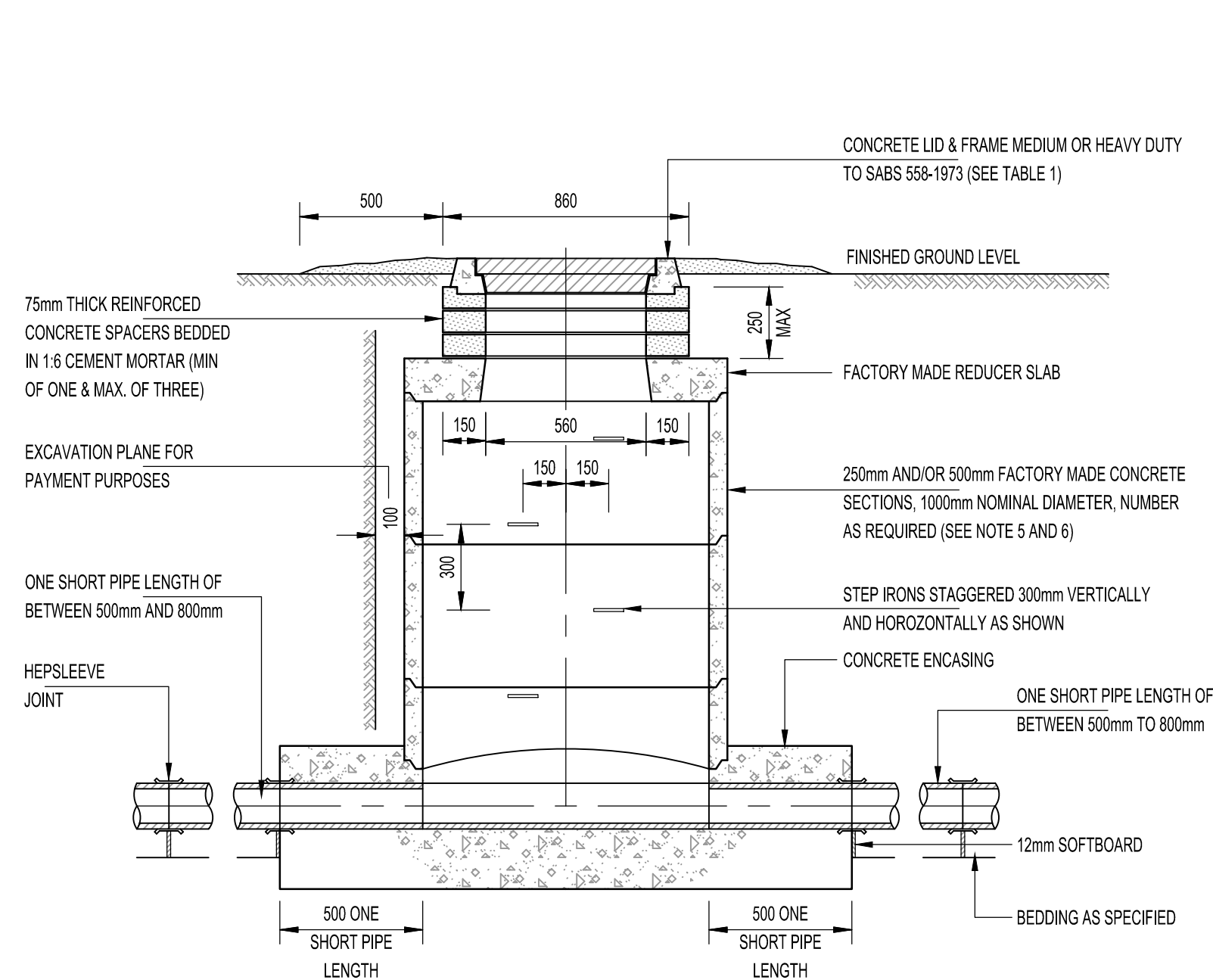
PLAN
(TYPICAL EXAMPLE WHERE
HDPE PIPES ARE USED)

SCALE 1 : 20



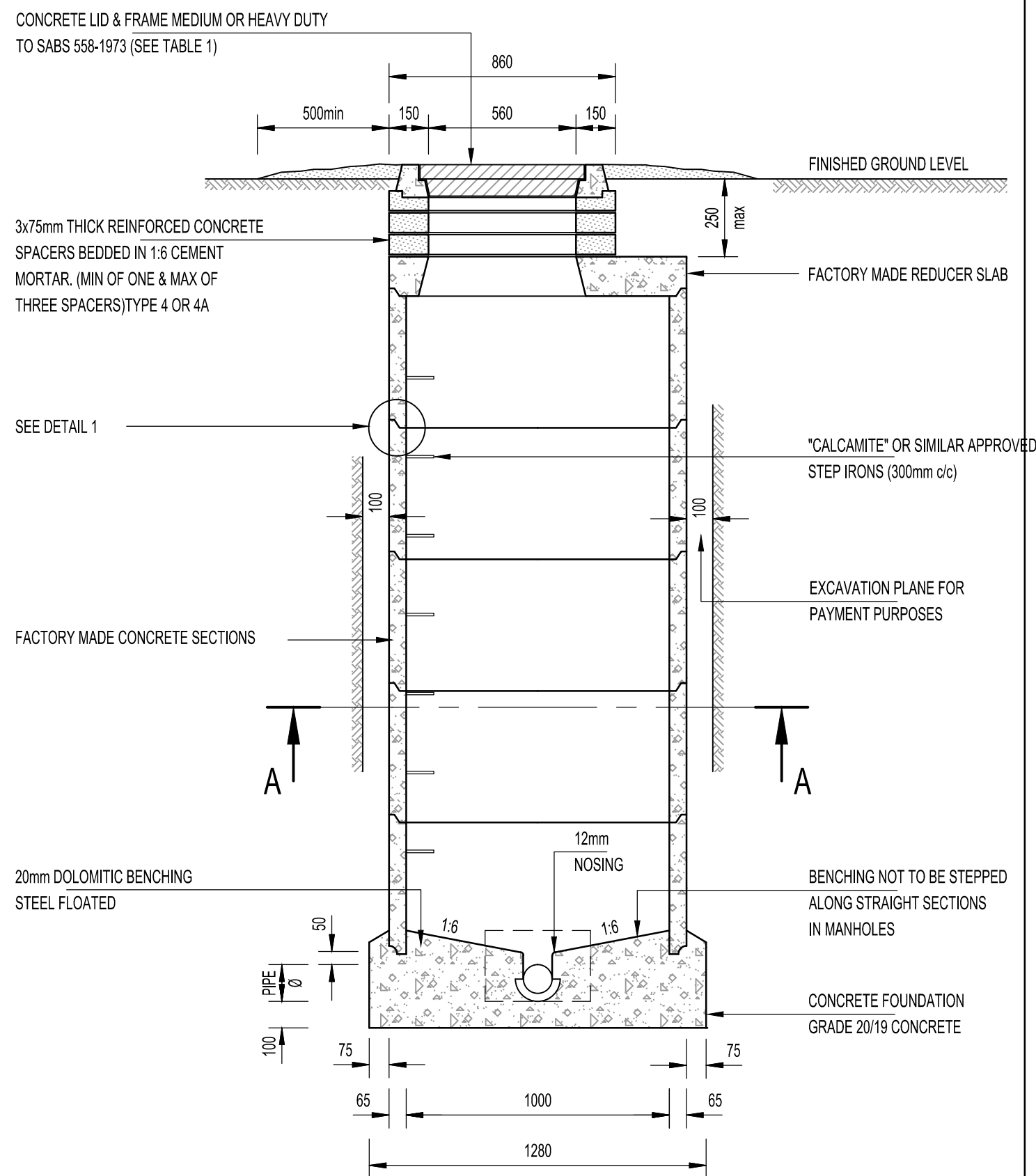
PLAN

SCALE 1 : 20



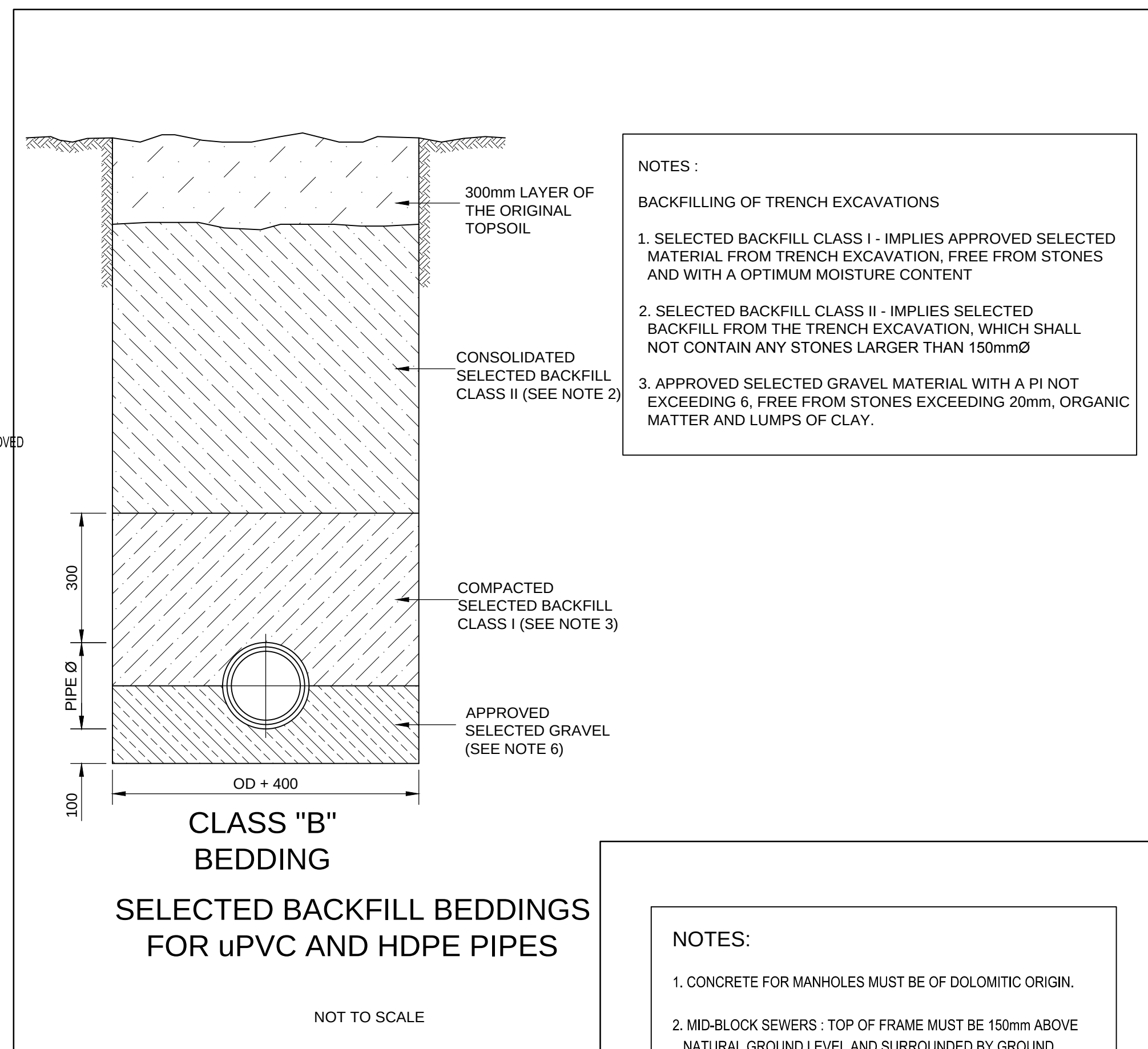
SECTION C-C

SCALE 1 : 20



SECTION B-B

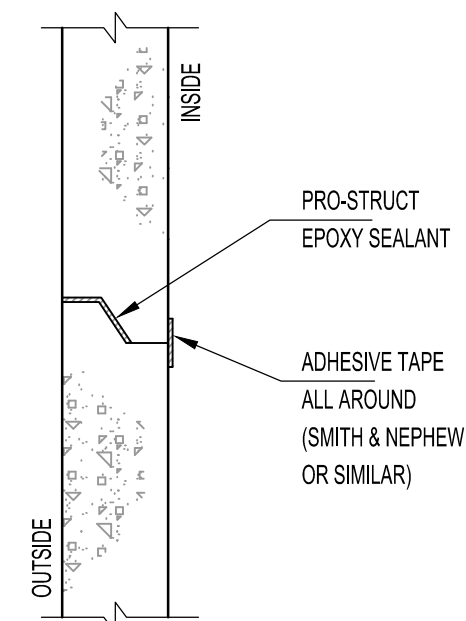
SCALE 1 : 20



CLASS "B"
BEDDING

SELECTED BACKFILL BEDDINGS
FOR uPVC AND HDPE PIPES

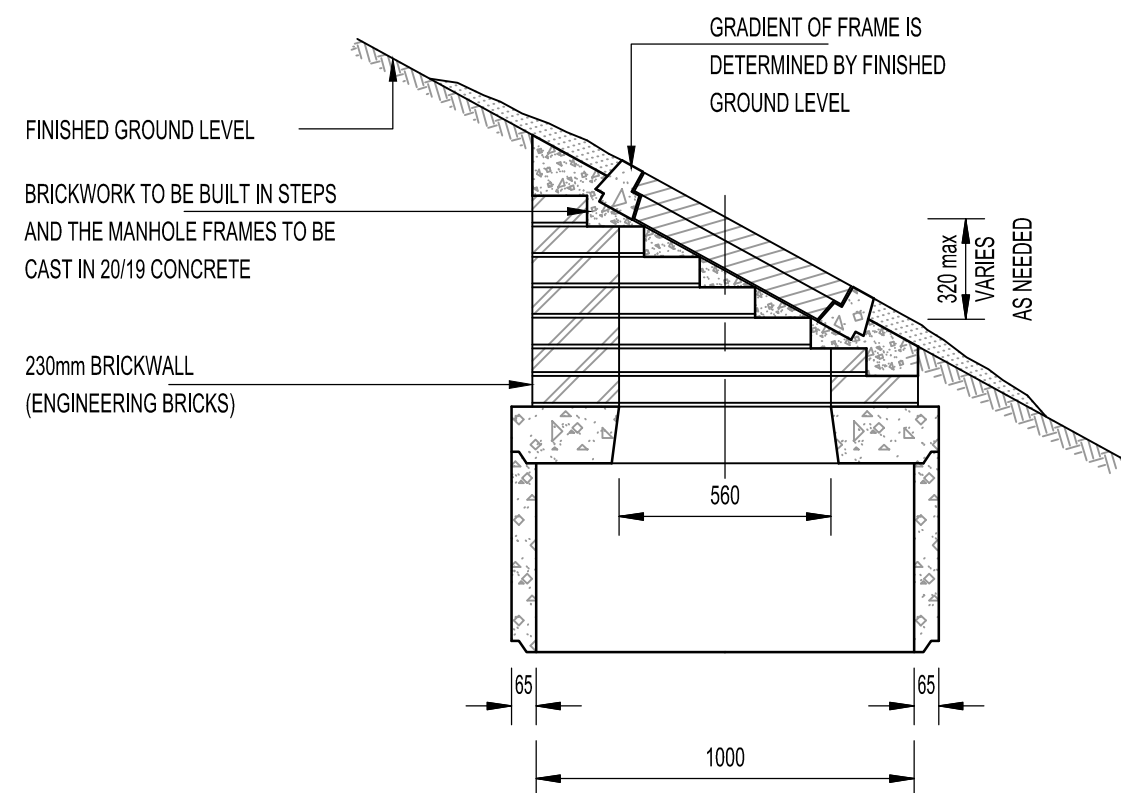
NOT TO SCALE



DETAIL 1

SCALE 1 : 5

TABLE 1	
MANHOLE COVERS (SABS 558/1973)	
POSITION OF MANHOLE	TYPE OF COVER
CARRIAGEWAYS	HEAVY DUTY CONCRETE LID & FRAME
STREET RESERVES	MEDIUM DUTY CONCRETE LID & FRAME
ERVEN	MEDIUM DUTY CONCRETE LID & FRAME
NOTE : CONCRETE COVERS ARE USED ONLY WITH WRITTEN INSTRUCTION FROM THE ENGINEER	



BUILT IN MANHOLE FRAME AT FINISHED SLOPED SIDEWALKS

(WITH WRITTEN PERMISSION FROM THE CITY ENGINEER ONLY)

SCALE 1 : 20

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 4. ALL WATERPROOFING AND EARTH POISONING DETAILS TO BE IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATION AND INSTRUCTIONS.

A	13/09/19	ISSUED FOR APPROVAL		P.L.	
REV	DATE	COMMENTS		BY	

Consulting Engineer:



Project:
MOLAI-JUBILEE SECONDARY SCHOOL

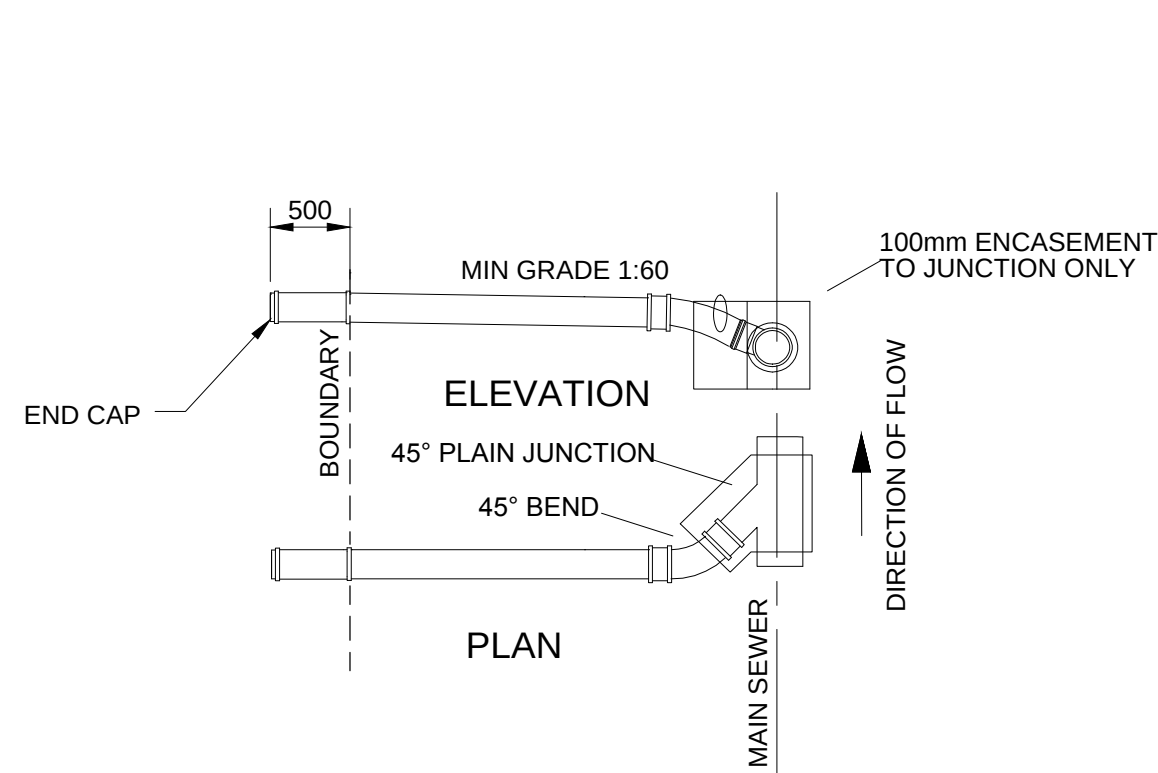
Drawing Title:
SEWER MANHOLE TYPICAL DETAILS

Consultant's Signature:

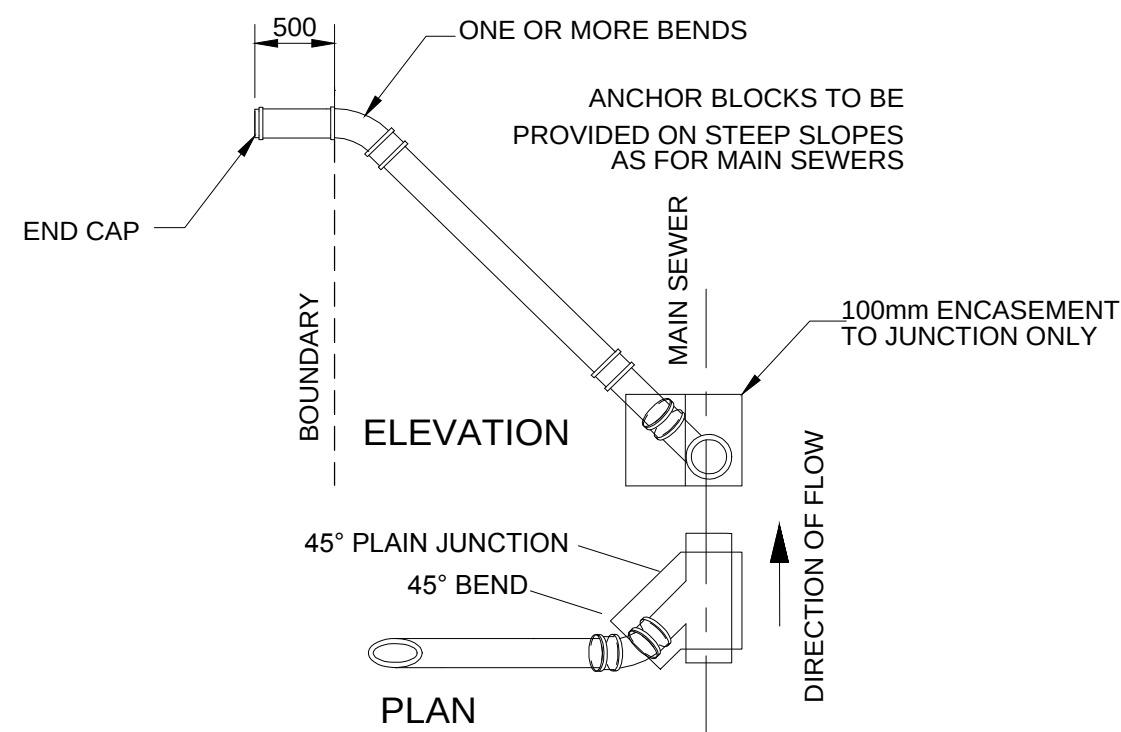
Drawn:	Checked:	Designed:	Scale:
P. MAAKE	P. LOUW	P. LOUW	AS SHOWN
Job Number:	Discipline:	Dwg Number:	Rev:
201411-LP-BLD	CIV	005	A
			A1

NOTES:

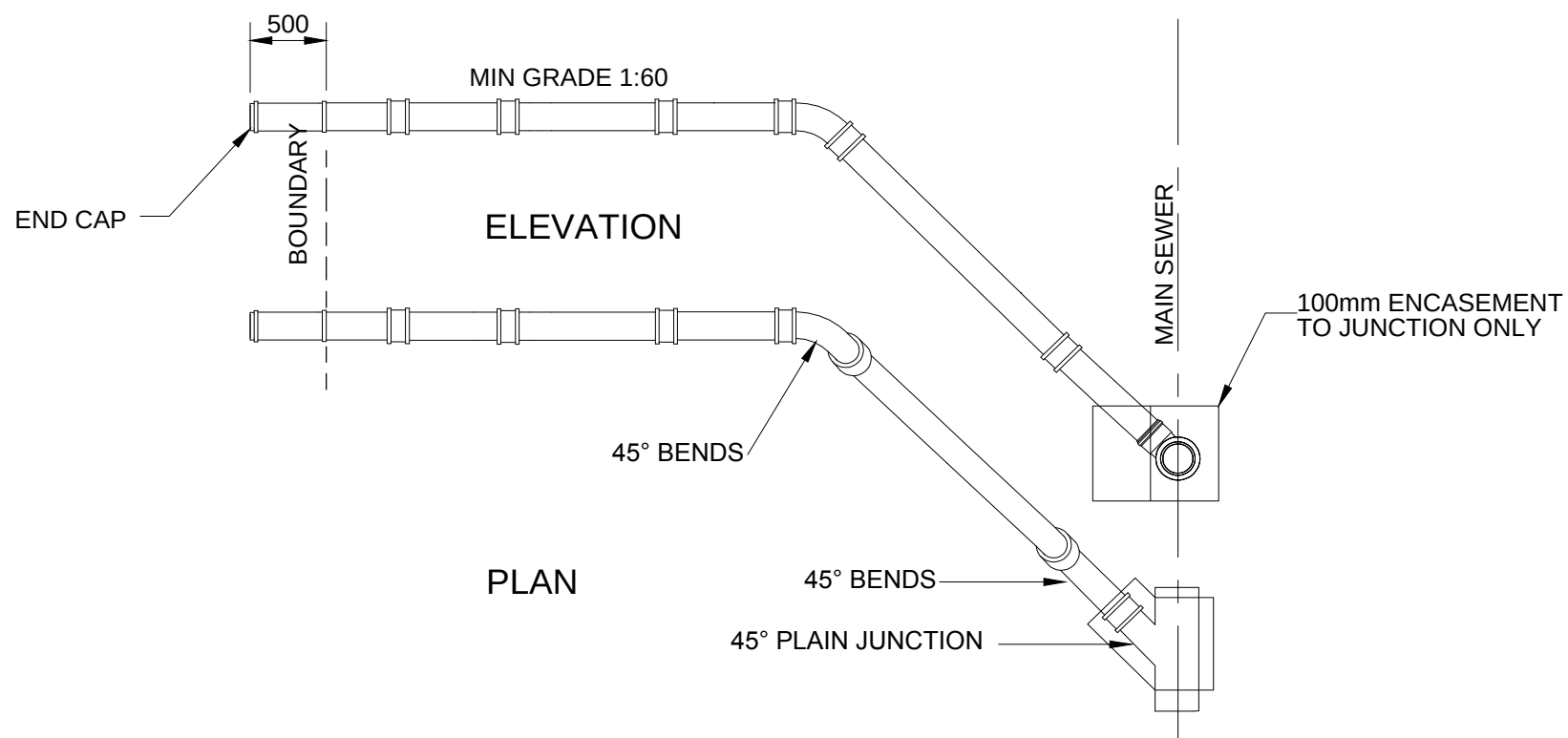
1. CONCRETE FOR MANHOLES MUST BE OF DOLOMITIC ORIGIN.
2. MID-BLOCK SEWERS : TOP OF FRAME MUST BE 150mm ABOVE NATURAL GROUND LEVEL AND SURROUNDED BY GROUND.
3. GRAVEL SIDEWALKS :
a) TOP OF THE FRAME MUST BE 50mm ABOVE FINISHED GROUND LEVEL OF SIDEWALKS
b) IN CASE SIDEWALK IS NOT FINISHED OFF THE HEIGHT OF THE FRAME MUST BE DETERMINED BY THE ENGINEER.
4. CHANNELING MUST BE BUILT WITH GLAZED EARTHENWARE PIPES.
5. CONCRETE SECTIONS MUST BE FIXED WITH AN EPOXY AND SILICA MIXTURE (WHICH HAS BEEN APPROVED BY THE ENGINEER).
6. FACTORY MADE MANHOLE SECTIONS MUST BE IN ACCORDANCE WITH S.A.B.S. 1924-1981.
7. MANHOLE FRAMES MAY ONLY BE BUILT IN ON SLOPED FINISHED SIDEWALKS ON A WRITTEN INSTRUCTION BY THE ENGINEER.
8. OVER EXCAVATION MAY ONLY BE FILLED AFTER APPROVAL BY THE ENGINEER WITH GRADE 20/19 CONCRETE OR SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.
9. NO PART OF THE MANHOLE MAY BE FINISHED OFF WITH CEMENT-WASH OR MARTAR.



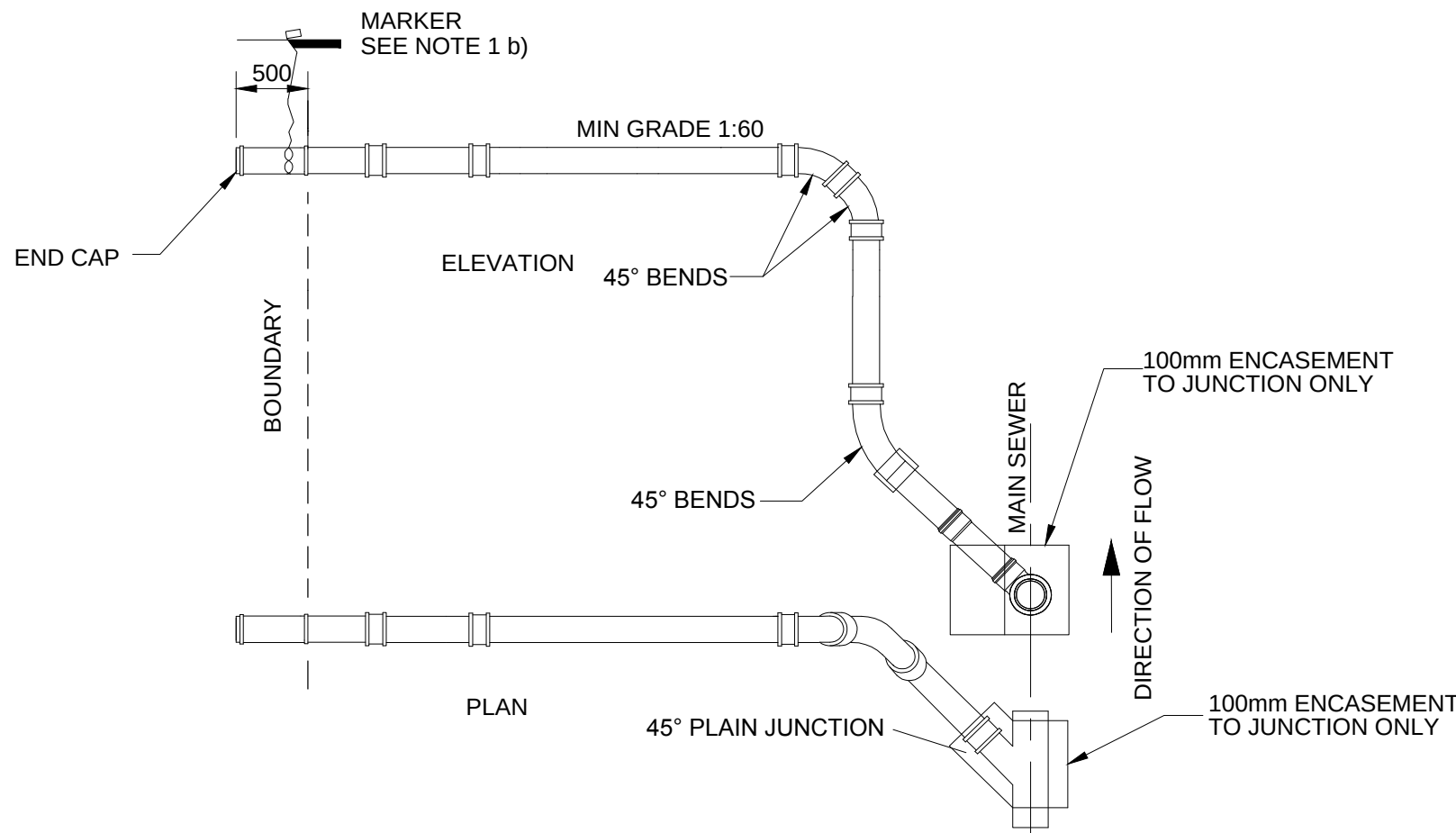
ON GRADE CONNECTION



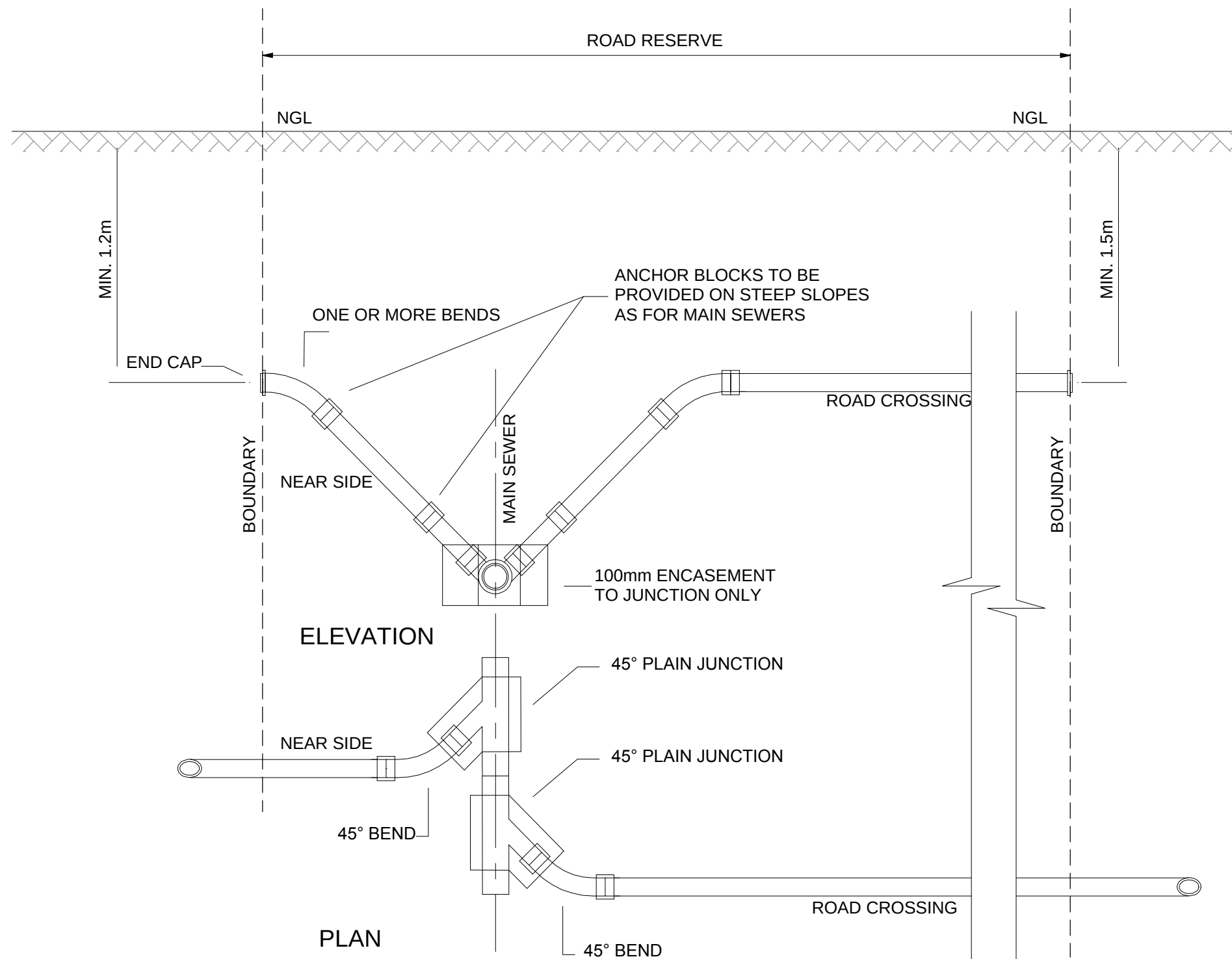
SLOPING DROP CONNECTION



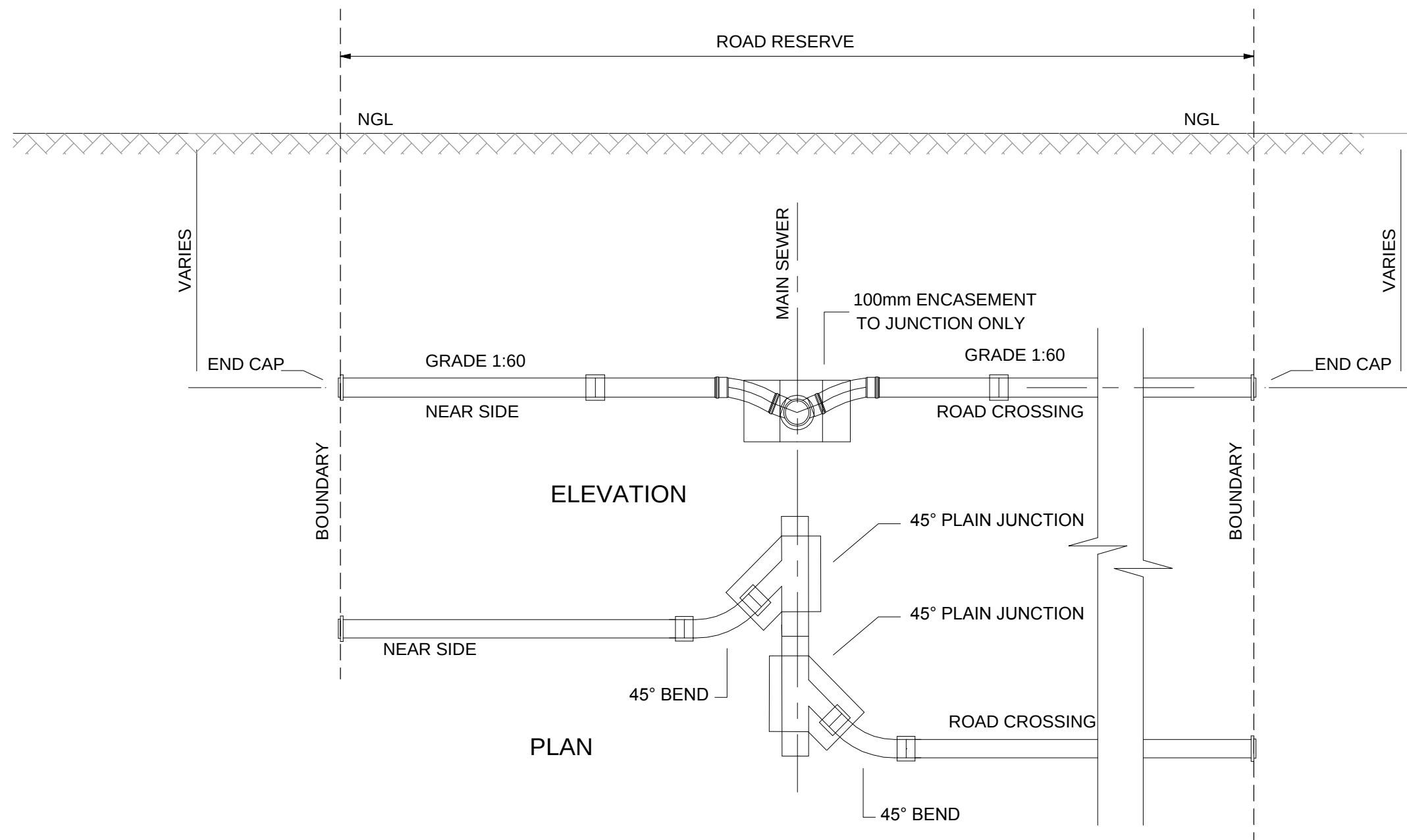
DEPTH DIFFERENCE 1m & LESS



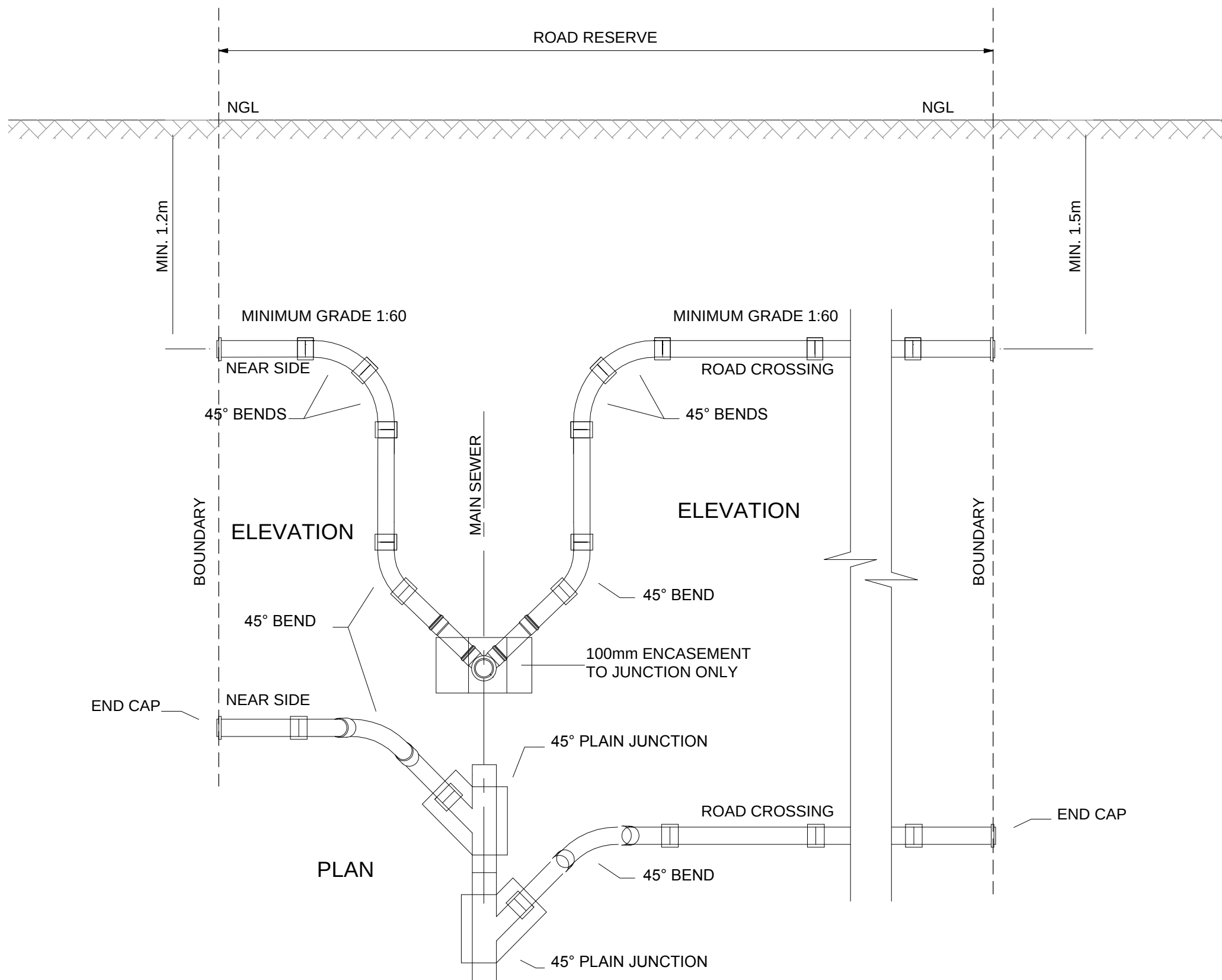
VERTICAL DROP CONNECTION



SLOPE DROP CONNECTION
TYPE 2 (ONE OR BOTH SIDES)



ON GRADE CONNECTION
TYPE 1(ONE OR BOTH SIDES)



VERTICAL DROP CONNECTION
TYPE 4 (ONE OR BOTH SIDES)

- NOTES**
1. PRECAST CONCRETE MANHOLES AND SLABS ARE TO COMPLY WITH SABS 1294(1993).
 2. PIPE SECTIONS AND SLABS ARE TO BE BEDDED ON A 2:1 CEMENT MORTAR GROUT TO FORM A COMPACTED WATER TIGHT JOINT OF APPROXIMATELY 5mm.
 3. MANHOLE SHAFTS ARE TO BE PLACED OVER THE LARGEST LANDING ON DOWN STREAM SIDE.
 4. STEPS TO BE LOCATED OVER LARGEST LANDING ON DOWN STREAM SIDE.
 5. MANHOLE COVER AND FRAMES SHOULD BE AS FOLLOWS:
5a FOR ROADWAYS, SANITARY LANES, OPEN LAND AND PARK:
1. SABS 558-1991 AS AMENDED HEAVY DUTY TYPE 2A - CAST IRON CIRCULAR COVER AND SQUARE FRAME WEIGHING APPROXIMATELY 190kg - DR
2. HEAVY DUTY PRECAST CONCRETE COVER (WITH STEEL LIP RING) AND FRAME.
5b FOR FOOTWAYS AND SERVITUDES - HEAVY DUTY PRECAST CONCRETE COVER (WITH STEEL LIP RING) AND FRAME.
 6. THE MAXIMUM PROTRUSION OF PIPES INTO MANHOLES TO BE 50mm.
 7. MINIMUM CHANNEL INSERT BETWEEN STANDARD FITTINGS TO BE GREATER THAN 100mm.
 8. THE VERTICAL DISTANCE BETWEEN STEP IRONS IS 250mm + OR - 12mm. THE HORIZONTAL DISTANCE BETWEEN THE CENTRES OF THE TREADS IS 150mm + OR - 12mm.
 9. ALL PIPES AND FITTINGS MUST BE VITRIFIED CLAY AND COMPLY WITH SABS 559 (1993).

- NOTES**
1. ALL CONNECTIONS TO BE CAPPED BEFORE BACKFILLING AND TO BE WIRE MARKED.
 2. ALL PIPES, FITTINGS TO SABS 559 (1993), AS AMENDED.
 3. ALL CONCRETE TO BE 15MPa AS PER SABS 1200 (1982).
 4. THE MINIMUM GRADE OF THE SEWER CONNECTION IS TO BE 1 IN 60.
 5. IN ALL CASES THE JUNCTION INTO THE MAIN SEWER IS TO BE ENCASED.

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REV	DATE	COMMENTS	BY

Consulting Engineer:



Client:



Client:



Project:

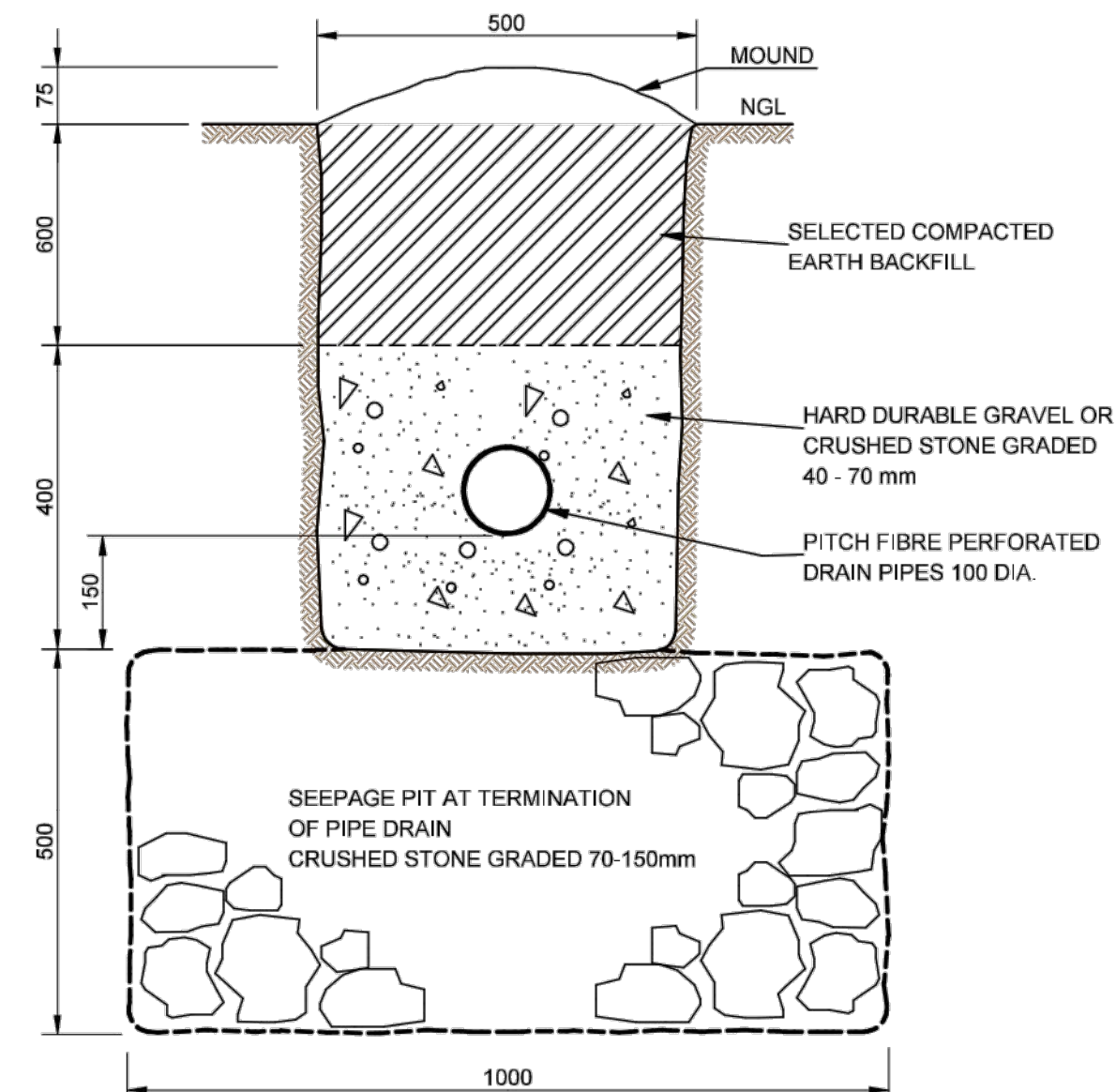
MOLAI-JUBILEE SECONDARY SCHOOL

Drawing Title:

SEWER CONNECTION DETAILS

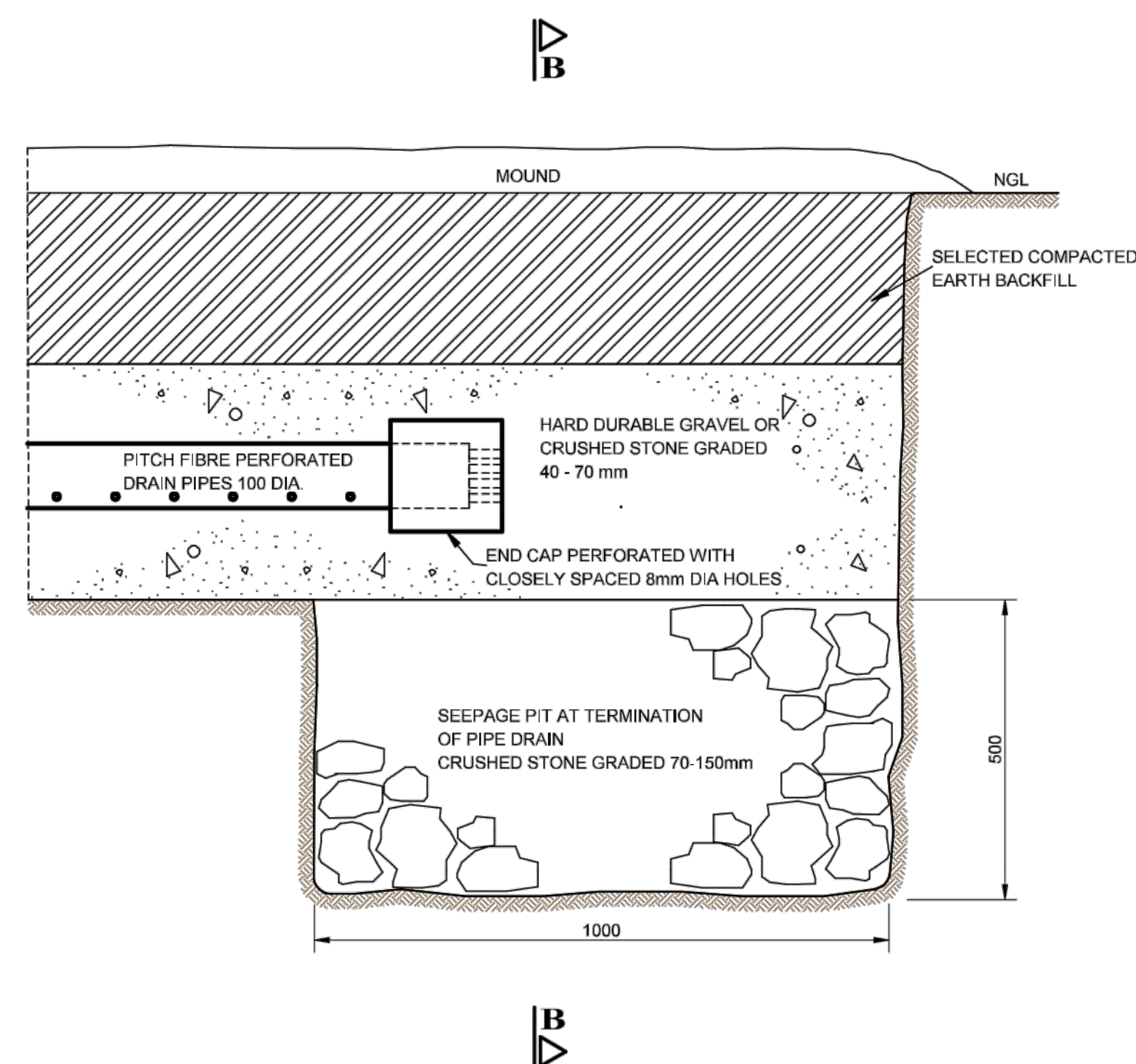
Consultant's Signature:

P. LOUW			
Drawn:	Checked:	Designed:	Scale:
P. MAAKE	P. LOUW	P. LOUW	N.T.S.
Job Number:	Discipline:	Dwg Number:	Rev:
201411-LP-BLD	CIV	006	A



SECTION B-B

SCALE 1:10



SECTION THROUGH SEEPAGE PIT

SCALE 1:10

REF. No.	REF. DESCRIPTION
A	600 x 600mm DUCT CAST IRON MANHOLE COVER AND FRAME (SA TYPE) 4 (2 OFF)
B	SMOOTH FINE SIKKIMKAL ALL EXPOSED SURFACES TO HAVE A 15mm THICK PLASTER COAT. MORTAR SHALL BE SET OF A 1:3:6 RATIO
C	200mm THICK R/C SLAB TO BE CLASS 25/50 CONCRETE AND HAVING REB 3#S REINFORCEMENT IN TOP AND BOTTOM (50mm cover)
D	200mm THICK FLOOR SLAB TO BE CLASS 25/50 CONCRETE AND HAVING REB 3#S REINFORCEMENT IN BOTTOM (50mm cover)
E	150mm x 600mm S/S JOINT (45°)
F	160mm x 600mm S/S SEWER PIPE 850mm LONG WITH SOCKET
G	160mm x 600mm S/S SEWER PIPE 600mm LONG WITH SOCKET
H	160mm x 600mm S/S SEWER JOINT (90°) (2 OFF)
I	160mm x 1 x 110mm x 600mm S/S FIBER PIPE (2 OFF)
J	160mm x PERFORATED PITCH FIBER PIPE (TOTAL LENGTH 12m)
M	TERRACE TO BE FORMED AROUND SEPTIC TANK WITH 100mm CAST AND FILL SLOPE

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Consulting Engineer:



Client:	
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	Client



Project:

MOLAI-JUBILEE SECONDARY
SCHOOL

Drawing Title:

SEPTIC TANK LAYOUT AND DETAILS

Consultant's Signature: _____

P. LOUW

Drawn:
P. MAAKE

Checked:
P. LOUW

Designed:	P. LOUW
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Scale:
N.T.S.

Job Number:

201411-LP-BLD

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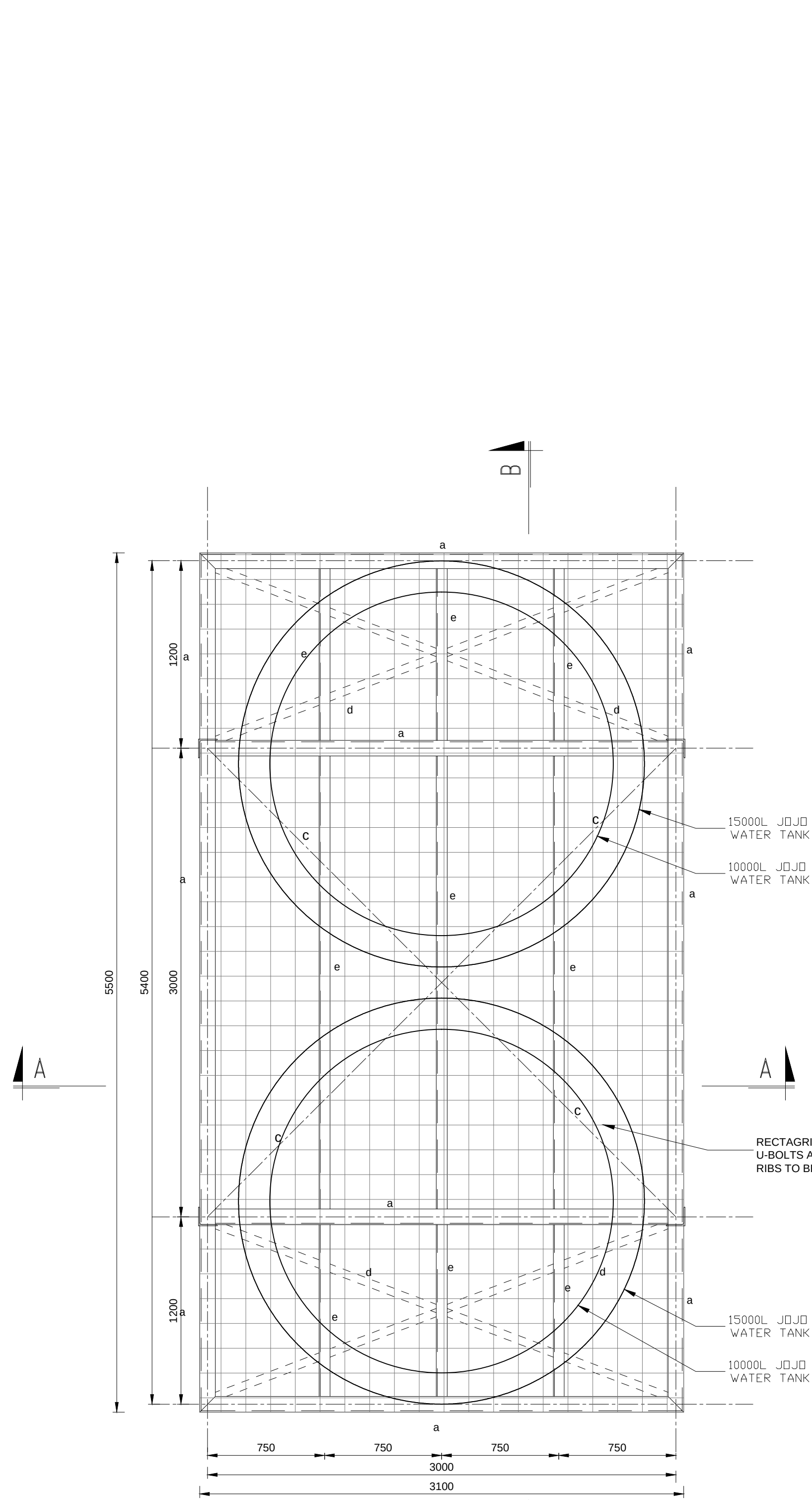
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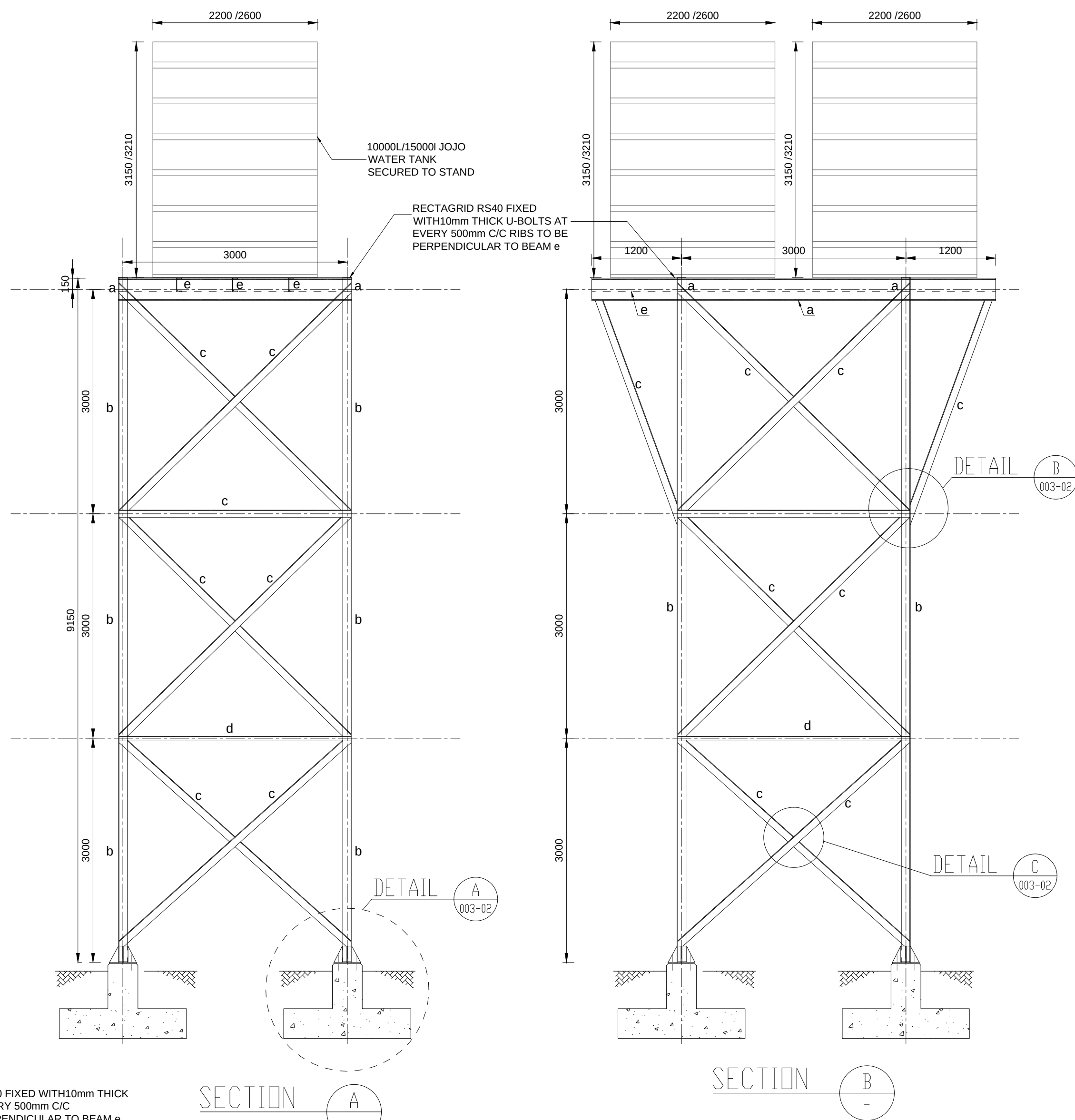
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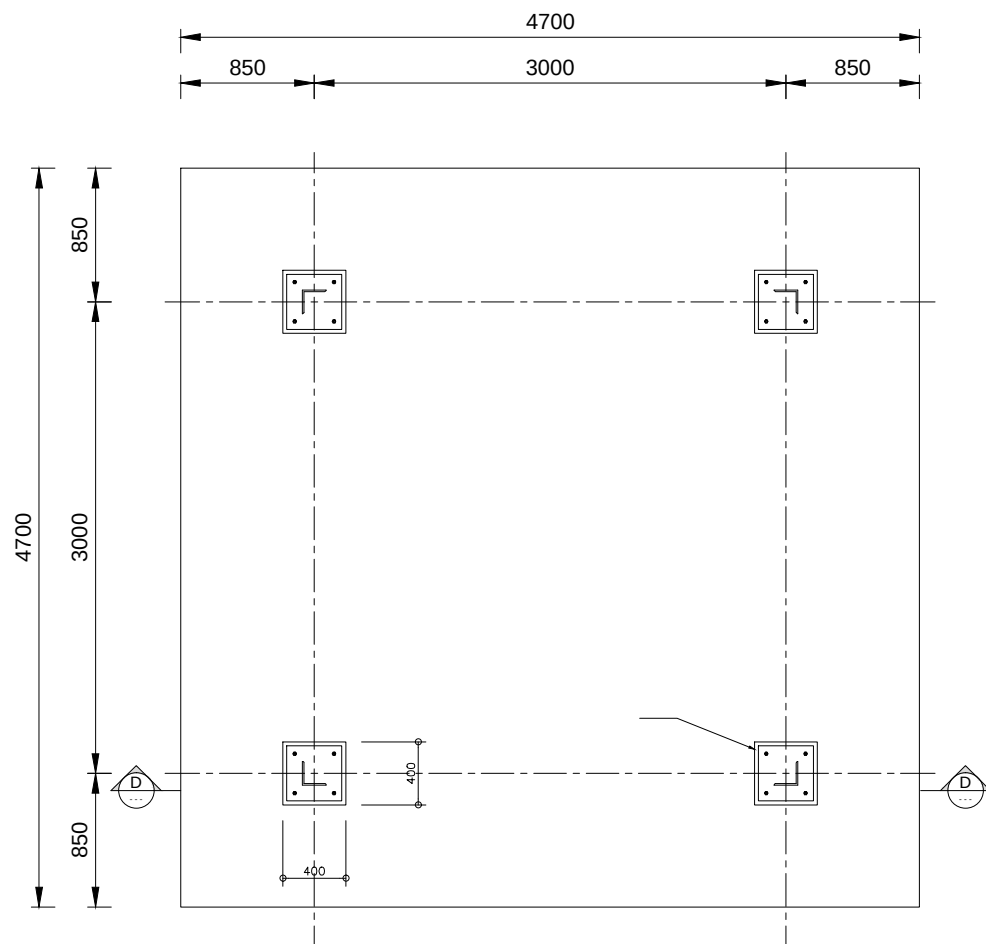


PLAN LAYOUT
SCALE 1:25



SECTION A
SCALE 1:50

SECTION B
SCALE 1:50



FOOTING LAYOUT
SCALE 1:50

LEGEND:

- a - PFC 300x100
- b - 150x150x10 L
- c - 120x120x8 L
- d - 90x90x8 L
- e - PFC 180x70

NOTES:

- 1.1) The contractor shall check all dimensions on site beforehand and report any discrepancies.
- 1.2) All instructions from the engineer shall be written in the site instruction book.
- 1.3) All exposed concrete edges to have a 20x20 chamfer.
- 1.4) The supervising engineer to confirm the following design conditions:

SOIL BEARING PRESSURE: 150KPa
CONCRETE STRENGTH: 25MPa
COVER TO REINFORCEMENT: 50mm
STEEL GRADE: S355JR
WELDS: Minimum 6mm Fillet welds
LOADS: 2x10/15Kl Plastic water tanks
The contractor shall inform the engineer 48Hrs prior to carry out the following inspections:
i. When foundation excavations are complete
ii. When reinforcement has been fixed and ready for concrete pouring.
iii. When structural steel is ready for erection on site

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CONCRETE NOTES:
FOUNDATIONS
1.1 EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST.
1.2 ALL FOUNDATIONS TO BE BUILT ON FIRM IN-SITU SOIL (NOT ON FILL).
1.3 PILING LOGS TO BE USED TO RECORD DEPTH, DIAMETER, REINFORCING, DATE CAST, CUT OFF LEVEL, CONCRETE STRENGTH AND REFERENCE TO RELEVANT CUBES MADE FOR TESTING.

CONCRETE
2.1 CONCRETE CHARACTERISTIC 28 DAY STRENGTH:
FOUNDATIONS: 25 MPa
GROUND BEAMS: 25 MPa
COLUMNS & WALLS: 25 MPa
SURFACE BEDS (INTERNAL): 25 MPa
SURFACE BEDS (EXTERNAL): 25 MPa
SUSPENDED SLABS: 25 MPa
2.2 NOMINAL CONCRETE AGGREGATE SIZE 19mm
2.3 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 5 DAYS AFTER CASTING.

2.4 ALL CONCRETE TO BE CONSTRUCTED TO THE SABS 1200 G PERMISSIBLE DEVIATION DEGREE OF ACCURACY CLASS II UNLESS OTHERWISE SPECIFIED.
2.5 CONCRETE CUBE TESTS TO BE SUBMITTED TO ENGINEER FOR APPROVAL.

REINFORCEMENT
3.1 ALL REINFORCEMENT TO BE CHECKED AND APPROVED BY THE ENGINEER BEFORE ANY CONCRETE IS CAST.

3.2 LAP LENGTH TO REINFORCING TO BE MIN. 50 x SMALLER DIAMETER, UNLESS OTHERWISE NOTED.

3.3 MINIMUM COVER TO REINFORCING:
PILE CAPS & GROUND BEAMS 50mm
COLUMNS & WALLS: 30mm
STRIP & PAD FOUNDATIONS: 50mm
SUSPENDED SLABS 30mm
BENDS TO SLABS 30mm

3.4 THE CONTRACTOR MUST TAKE PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT HAS BEEN ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE.

3.5 REINFORCING YIELD STRENGTH:
HIGH TENSILE Y 450 MPa
MILD STEEL Y 250 MPa
WELDED STEEL WIRE MESH 485 MPa

FORMWORK
4.1 STRIPPING TIMES FOR:
COLUMN AND WALL SHUTTERING 15 DAYS
SLAB PROPS 14 DAYS
BEAM PROPS 21 DAYS
4.2 CONCRETE FINISHES:
SURFACING POWER FLOAT
SUSPENDED SLABS WOOD FLOAT
COLUMNS & WALLS OFF SHUTTER
BEAMS OFF SHUTTER
SLAB SOFFIT OFF SHUTTER

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REV	DATE	COMMENTS	BY

Consulting Engineer:
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86 Monument Road, Nimrod Park
Kempston Park, 1619
P.O. Box 2106, Johannesburg, 2000
Tel: 011 394 4358, Fax: 011 394 4357

Architect:
AKISA ARCHITECTS

Client:
LIMPOPO PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF EDUCATION

Client:
idt
Independent Development Trust

Project:
MOLAI-JUBILEE SECONDARY SCHOOL S

Drawing Title:
ELEVATED WATER TANK AND TYPICAL DETAILS (10 000L X 2)

Consultant's Signature:

Drawn:	Checked:	Designed:	Scale:
P. MAAKE	R. KHOROMBI	P. LOUW	AS SHOWN
Job Number:	Discipline:	Dwg Number:	Rev:
201411-LP-BLD	SC	003	0
			Dwg Size:
			A0

	REFERENCE DWG. NUMBER	DESCRIPTION	REV

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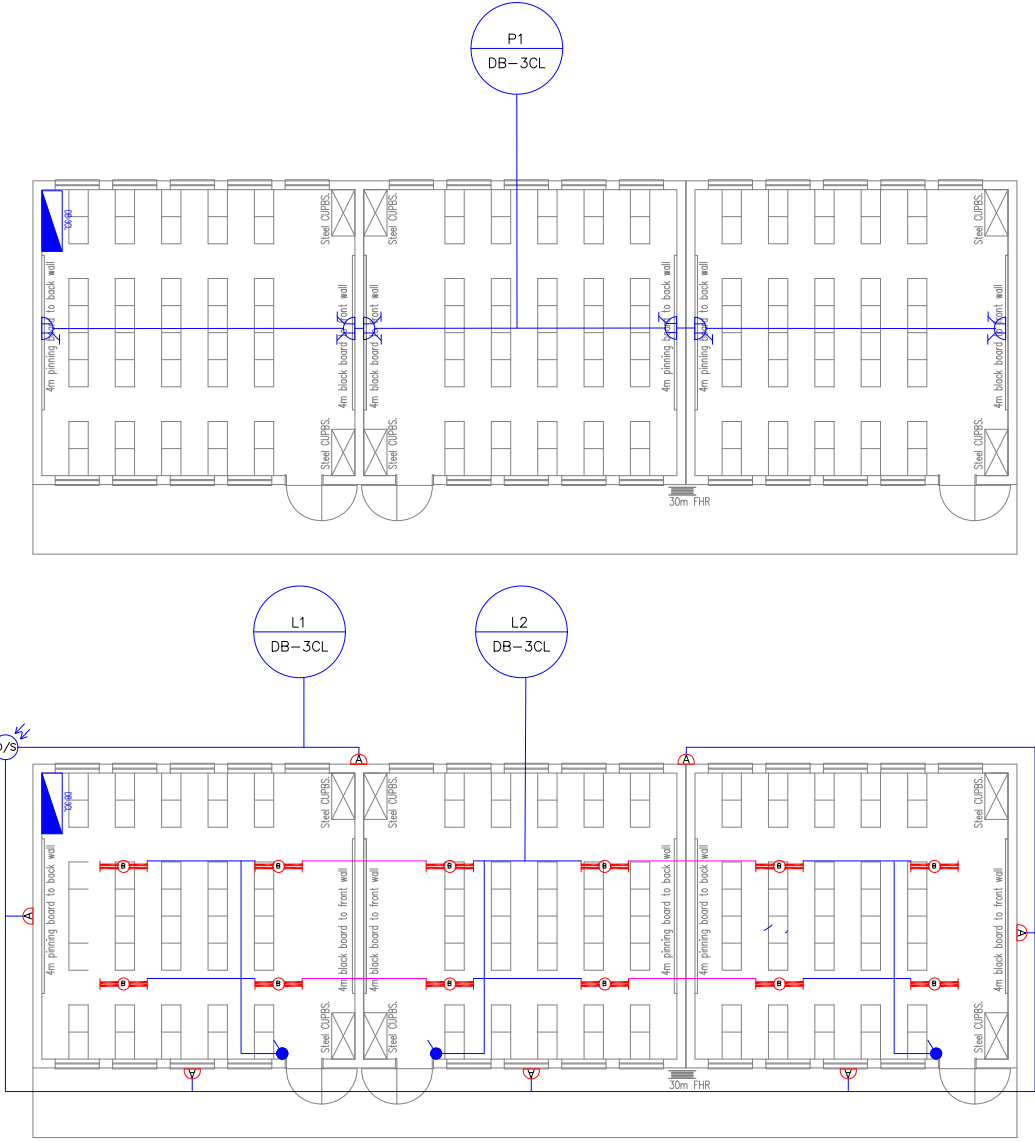
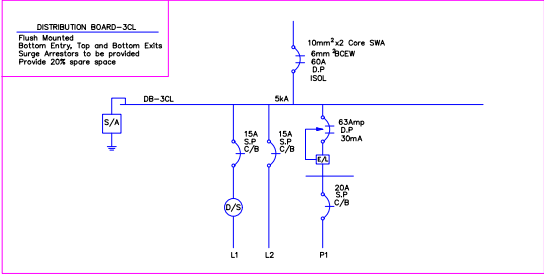
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3. ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2X23W 1.2m T5 FLUORESCENT FITTING
	2X37W 1.5m T5 FLUORESCENT FITTING
	2x23W 1.2m LBR LIGHT FITTING
	3x23W 1.2m LBR LIGHT FITTING
	NORMAL SINGLE SOCKET OUTLET
	100 x 100 NORMAL DOUBLE SOCKET OUTLET
	DEDICATED SINGLE SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	THREE PHASE ISOLATOR
	DATA POINT
	TELEPHONE POINT
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	2 Compartment Power Skirting Carrier Beige Colour.
	CIRCUIT
	SWITCHING

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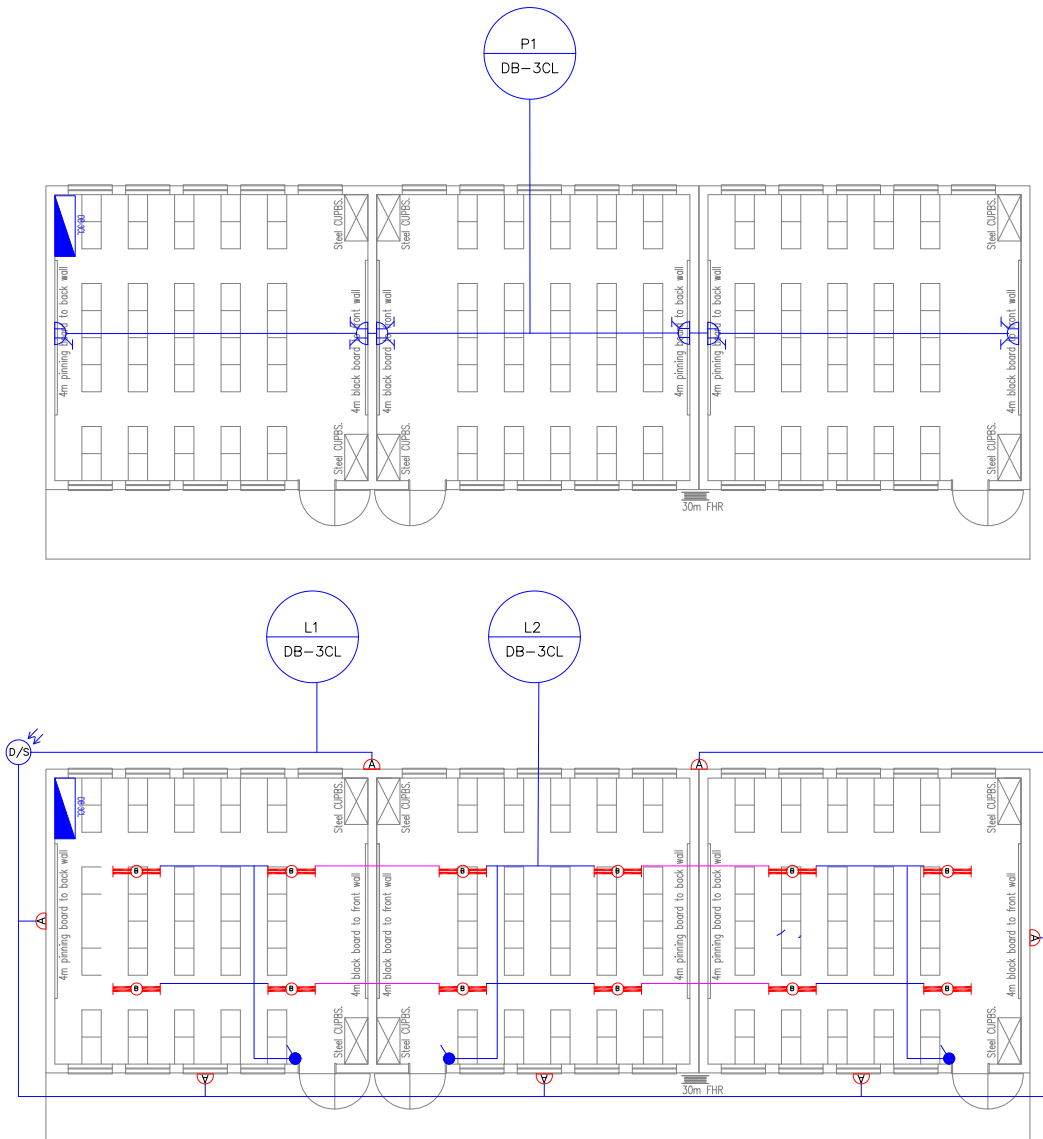
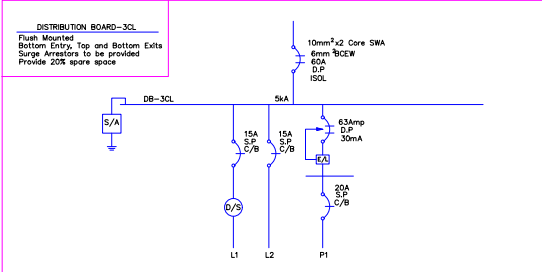
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4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62035-1.
5. IF BUSH UNITS ARE USED, THEY MUST SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

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	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2x23W 1.2m T5 FLUORESCENT FITTING
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	2x23W 1.2m LBR LIGHT FITTING
	3x23W 1.2m LBR LIGHT FITTING
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	DEDICATED SINGLE SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	THREE PHASE ISOLATOR
	DATA POINT
	TELEPHONE POINT
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	2 Compartment Power Skirting Carrier Beige Colour.
	CIRCUIT
	SWITCHING

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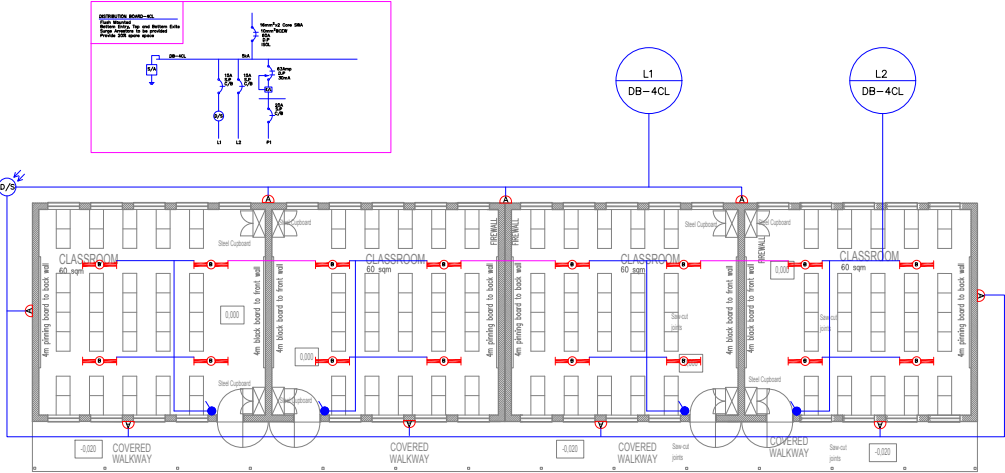
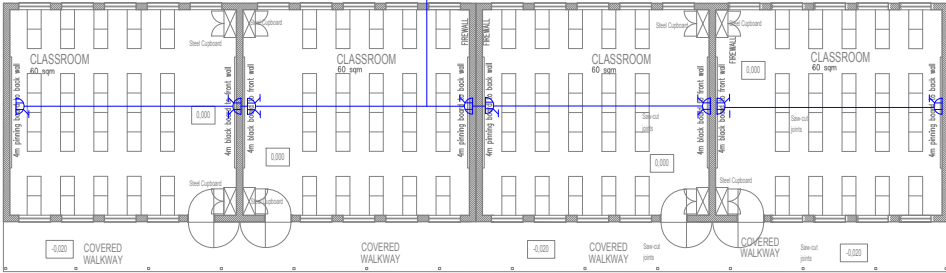
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4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1.
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2X23W 1.2m T5 FLUORESCENT FITTING
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	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	2 Compartment Power Skirting Carrier Beige Colour.
	CIRCUIT
	SWITCHING



4 CLASSROOM-BLOCK

Scale 1:100.

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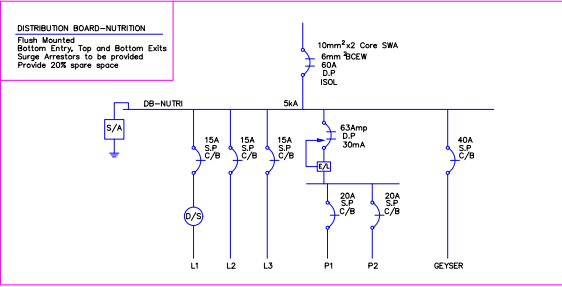
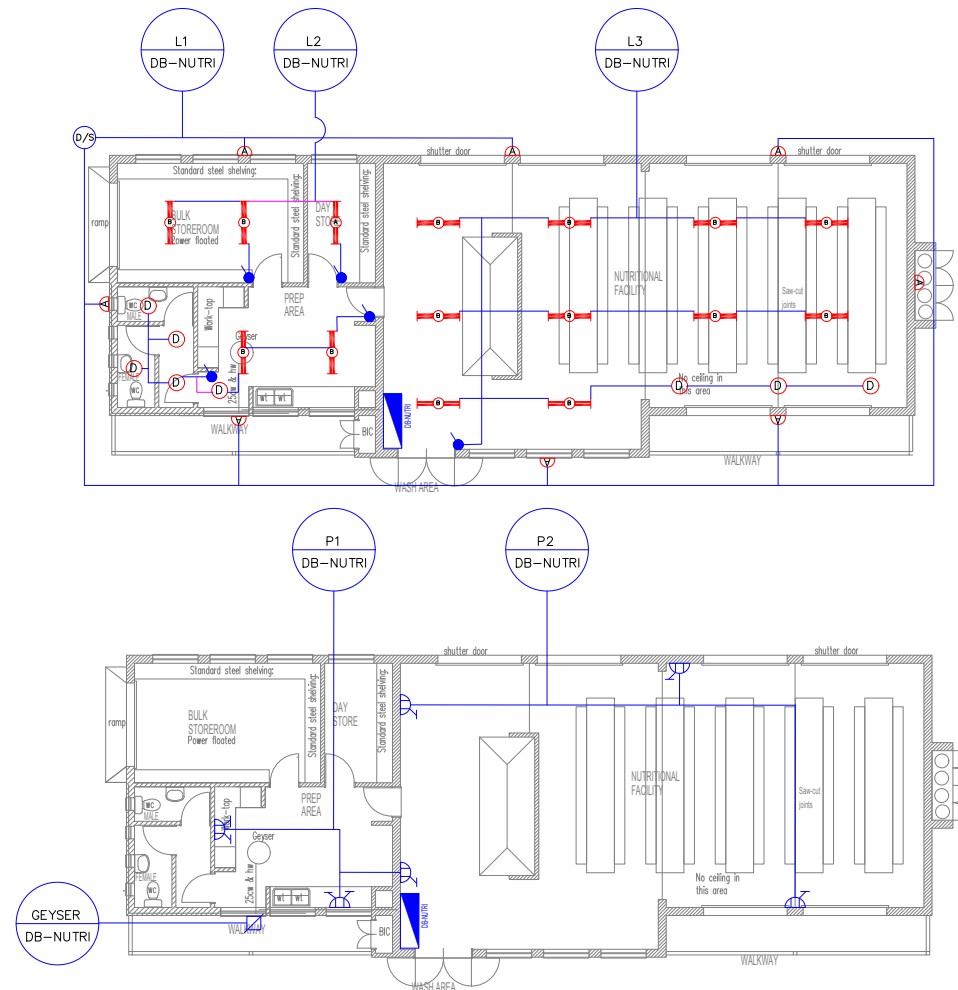
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3. ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1.
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2X23W 1.2m T5 FLUORESCENT FITTING
	2X37W 1.5m T5 FLUORESCENT FITTING
	2x23W 1.2m LBR LIGHT FITTING
	2x23W 1.2m LBR LIGHT FITTING
	NORMAL SINGLE SOCKET OUTLET
	100 x 100 NORMAL DOUBLE SOCKET OUTLET
	DEDICATED SINGLE SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	THREE PHASE ISOLATOR
	DATA POINT
	TELEPHONE POINT
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	2 Compartment Power Skirting Carrier Beige Colour.
	CIRCUIT
	SWITCHING

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ISSUED FOR TENDER

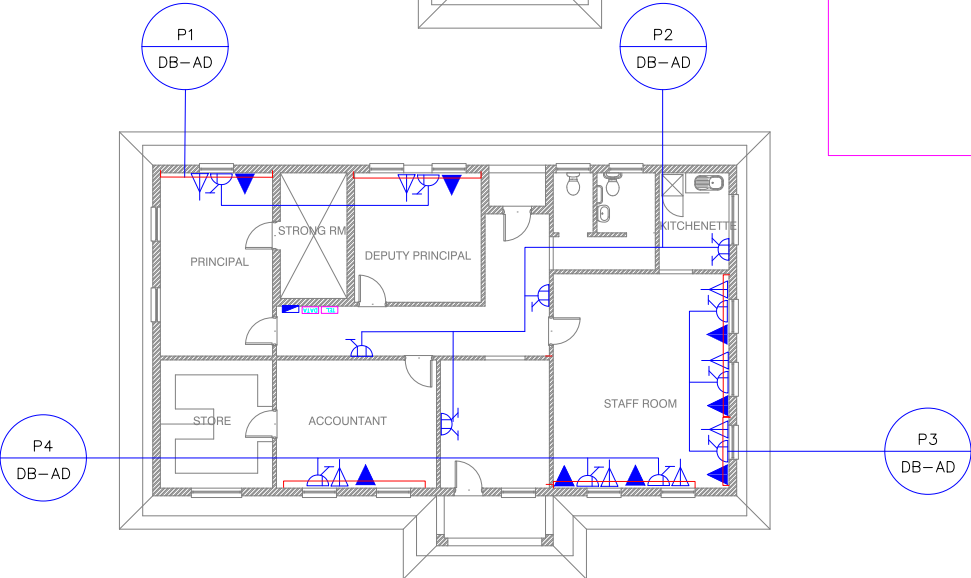
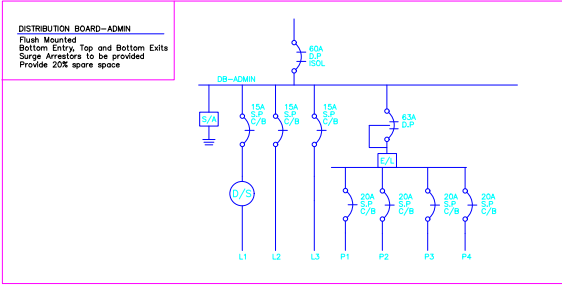
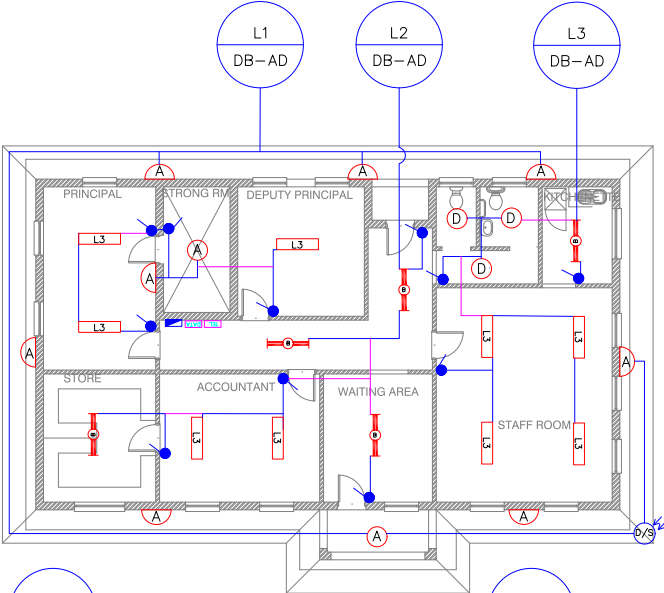
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	DISTRIBUTION BOARD NORMAL
	2 Compartment Power Skirting Carrier Beige Colour.
	CIRCUIT
	SWITCHING

[illegible]

ISSUED FOR TENDER

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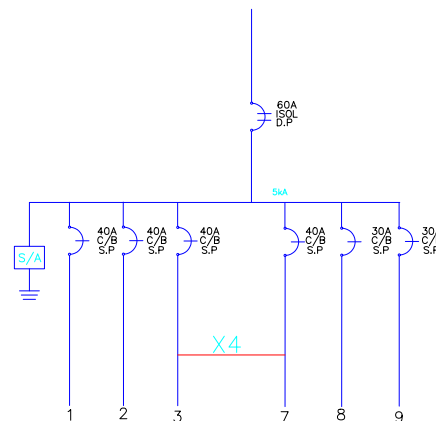
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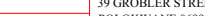
3CR12 – Powder Coated – Electric orange – IP65
Plinth mounted – base painted black
Doors – padlockable, with 3point locking device
and suitable steel or brass door restraints
Hinges inside panels, with square key catches

Separate cubicle for Main Switch and busbars
Royce Thompson or equivalent photo cell, behind perspex
Switch gear and meters – CBI or equivalent
>30% spare space
Fault level : 5kA, Busbars (HDHC)



LEGEND

C/B	CIRCUIT BREAKER
S.P	SINGLE POLE
D.P	DOUBLE POLE
T.P	TRIPPLE POLE
S/A	SURGE ARRESTOR
ISOL	ISOLATOR

					CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR. DESIGNED CHECKED DRAWN PROJECT MNG. APPROVED CLIENT	DATE 11/03/2019 11/03/2019 11/03/2019 - - -	BY E.KHUMALO V.FUNGHENI E.KHUMALO - -	SIGNATURE	SCALE DO NOT SCALE IF IN DOUBT ASK.	TITLE MOLAI JUBILEE SECONDARY SCHOOL 16 KVA KIOSK LAYOUT			
REV	DATE	CHK	APP	DESCRIPTION									PROJECT No	DRG SIZE	DRAWING No.	MC/IDT/EE/06