

BTK2 Consultants and Project Managers Seadorne Office Park, No.24 Seadorne Road, AMANZIMTOTI 4126

0 10 20 30 40 50 60 70



UPHONGOLO LOCAL MUNICIPALITY E: thokozanim@uphongolo.co.za

2. LARGE SCALE DRAWINGS TAKES PREFERENCE 3. DO NOT SCALE DRAWINGS, DIMENSIONS ONLY

4. DAMAGE TO UNKNOWN SERVICES - THE CONTRACTOR'S LIABILITY WHEN HE ENCOUNTERS UNKNOWN SERVICES IS TO 5. IF ANY PARTICULARS OR THE MEANING OF THE DESCRIPTION OF ANY ITEM IS NOT CLEAR OR IS AMBIGUOUS, INDISTINCT OR CAUSES CONFUSION AS TO ITS MEANING OR IF ANY

THE CONTRACTOR MUST INFORM THE ENGINEER IMMEDIATELY. IN ORDER TO HAVE THE ERROR CORRECTED OR EXPLAINED, AS 6. ALL WORK TO BE EXECUTED IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE LOCAL BY-LAWS & REGULATIONS. FOLLOWING TRADES TO BE EXECUTED IN

ACCORDANCE WITH SABS CODES AND A. STRUCTURAL CONCRETE: SABS-0100 C. STRUCTURAL STEEL: SABS - 0162

01 05/14/2021 For tender purposes only

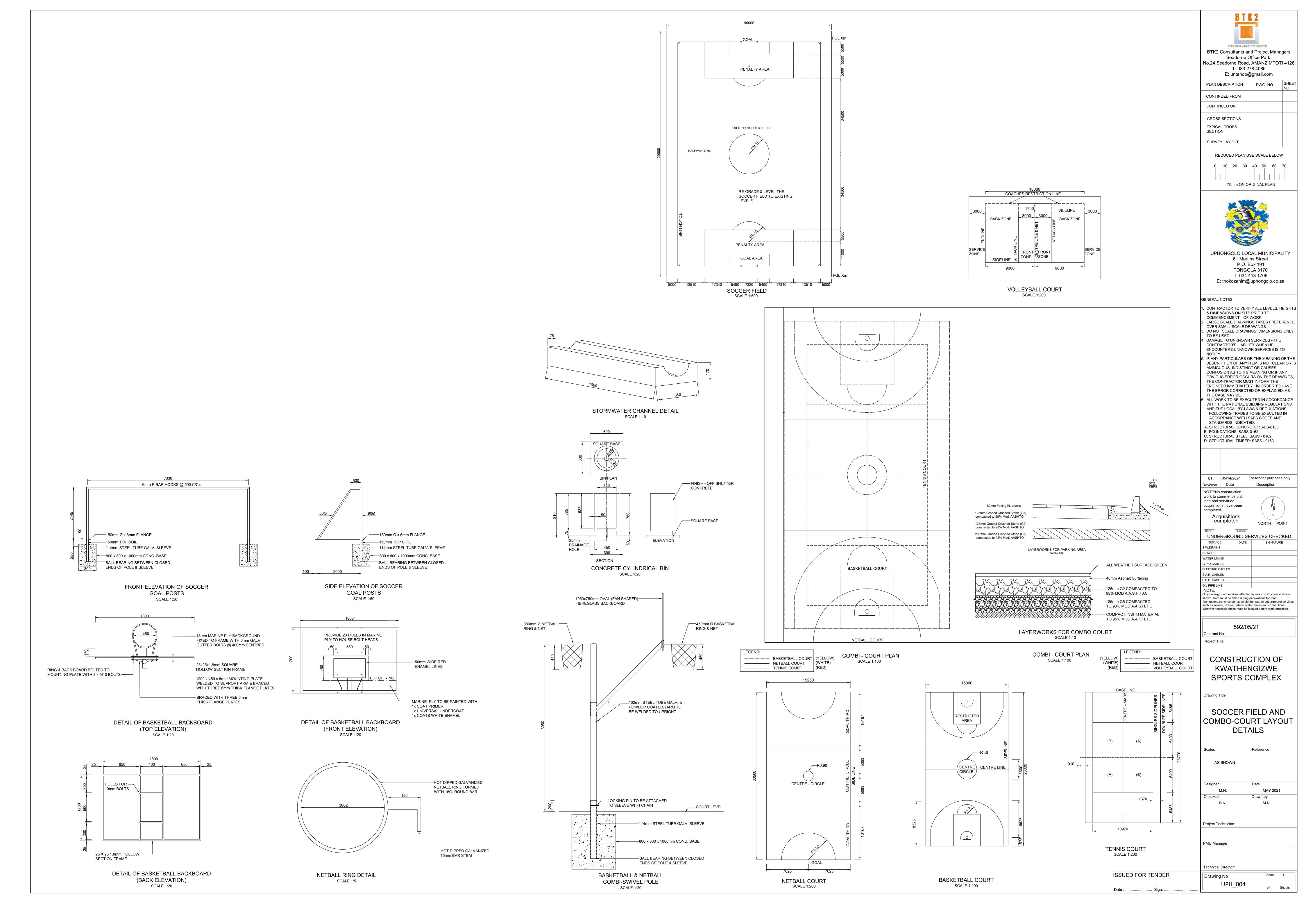
UNDERGROUND SERVICES CHECKED

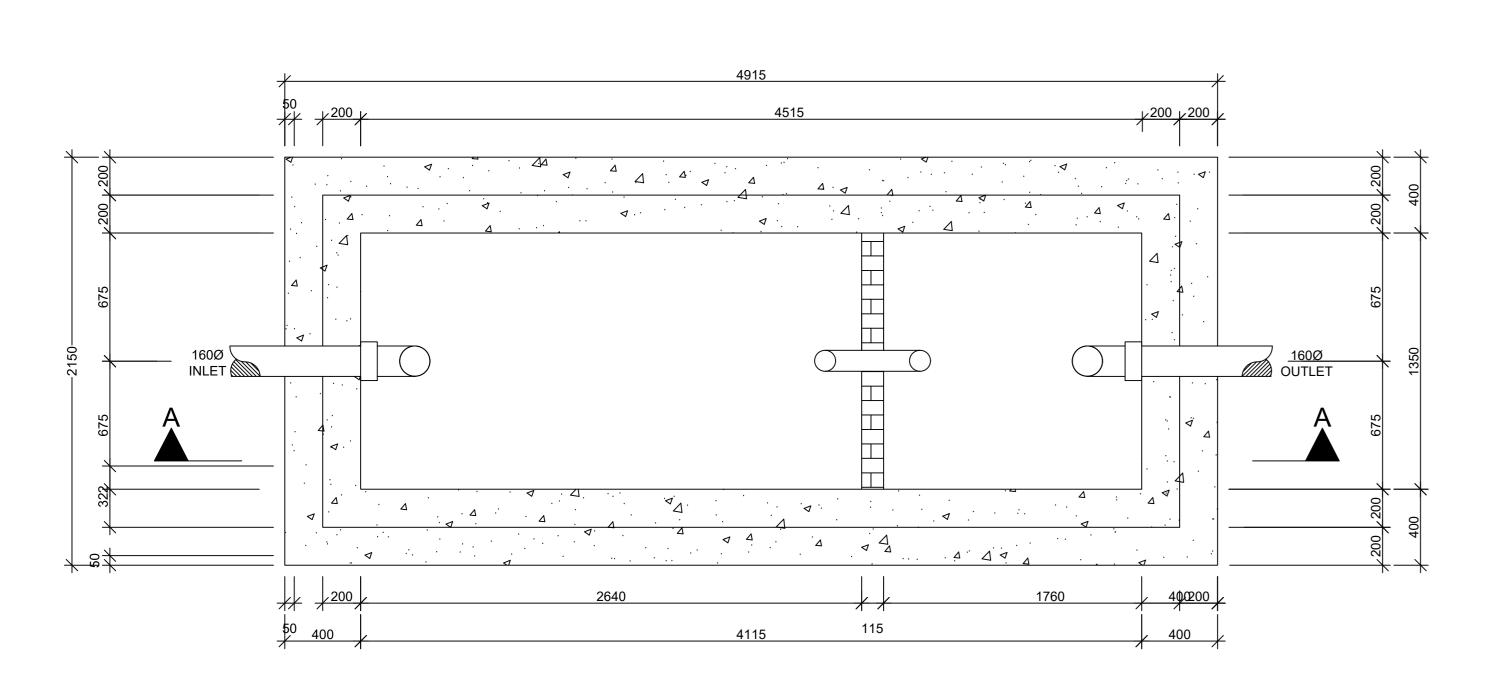
Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations,trenches etc...to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

**CONSTRUCTION OF** KWATHENGIZWE

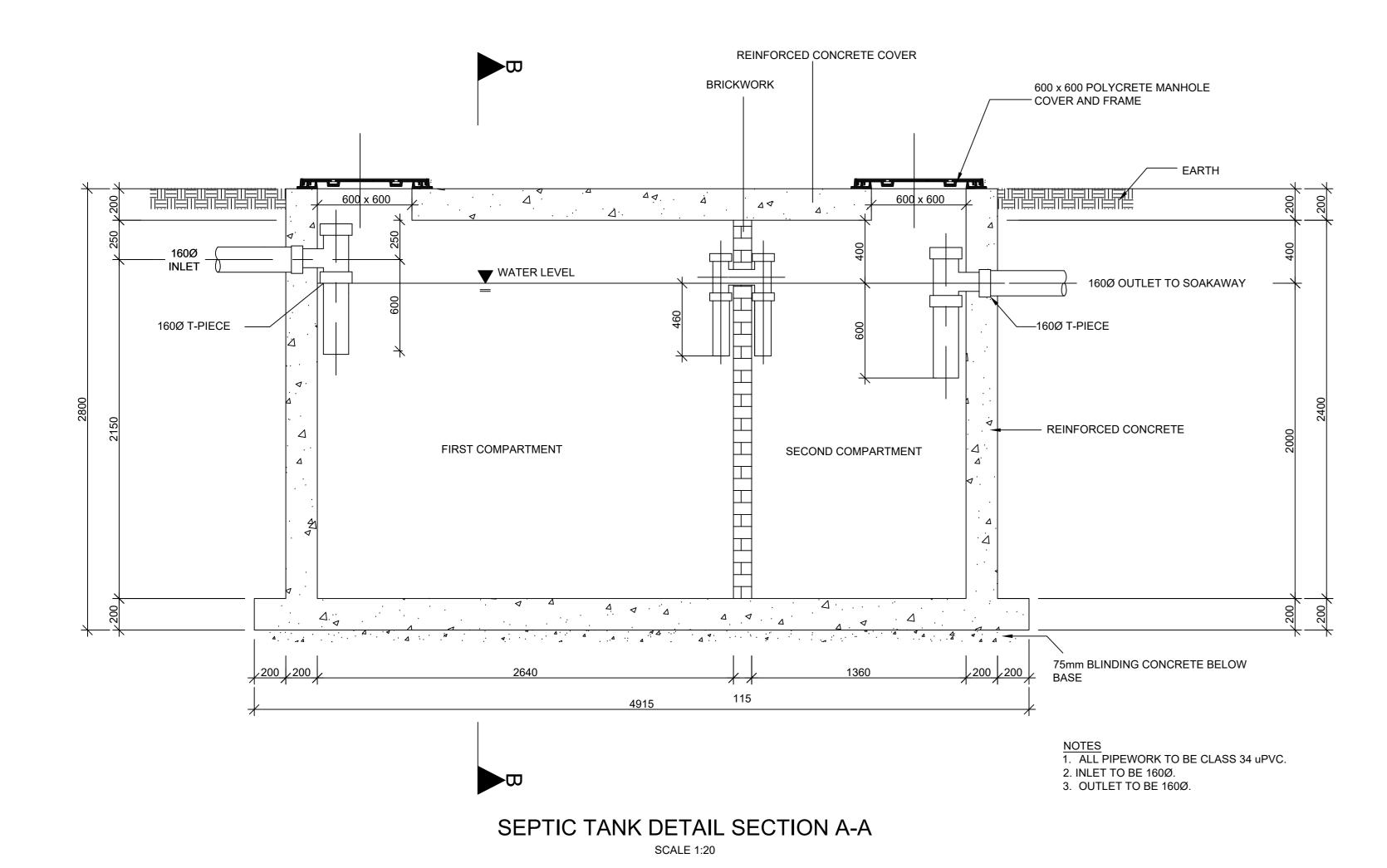
LAYOUT AND SECTIONS

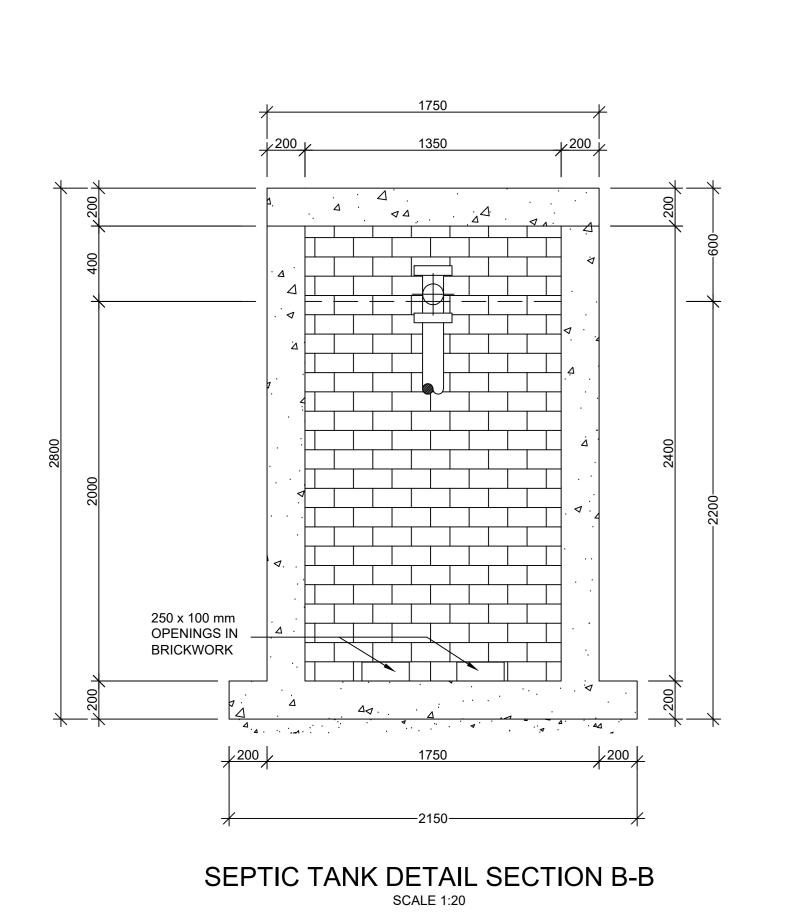
MAY 2021 M.N.

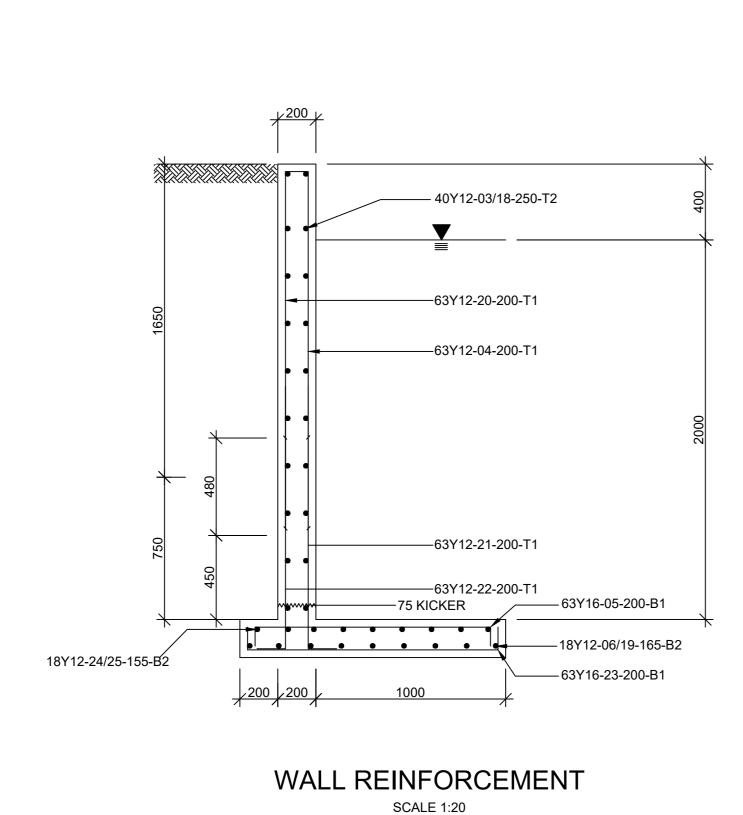


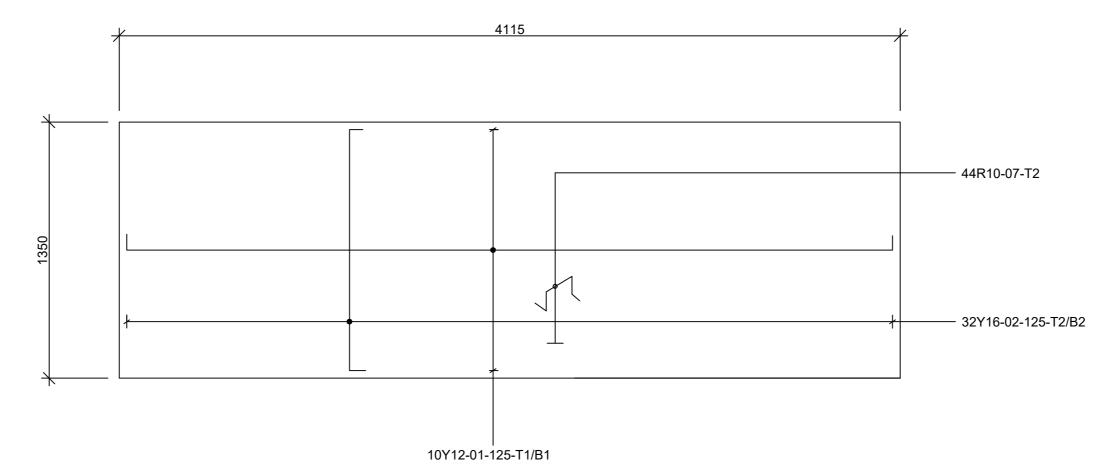


PLAN OF SEPTIC TANK DETAIL SCALE 1:20

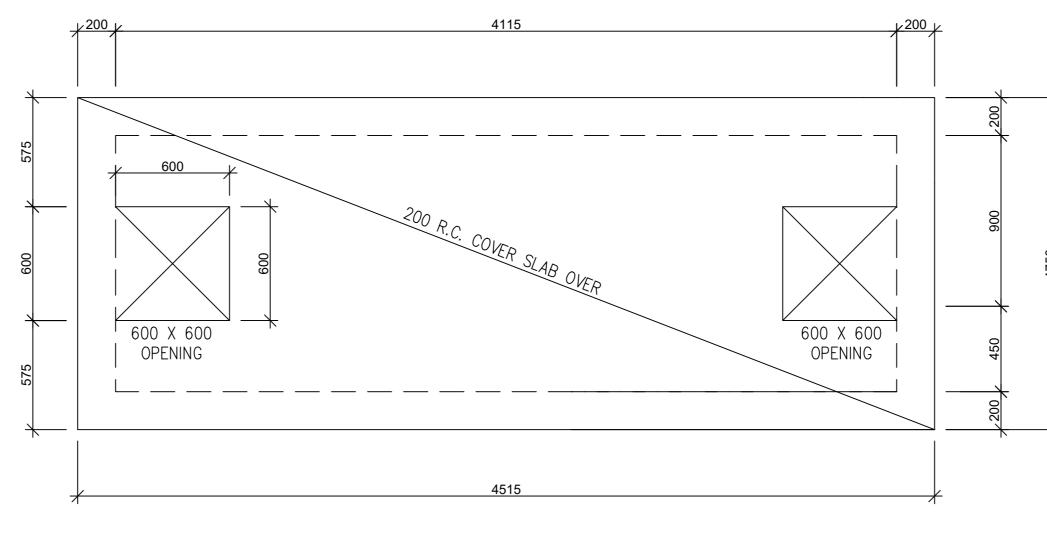








BASE SLAB REINFORCEMENT SCALE 1:20

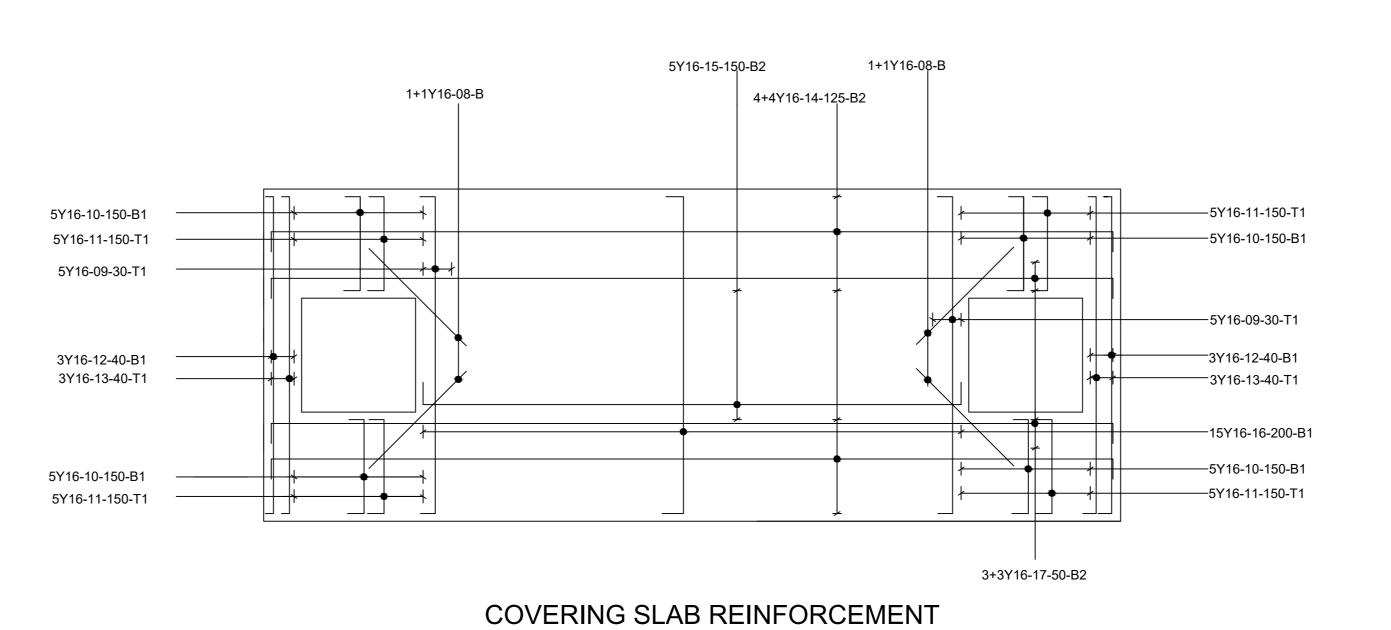


PLAN FOR TOP SLAB SCALE 1:20

	BEI	NDIN	NG S	CHE	DUL	E (S	SABS	82	-199	7)
	REI	NFORCE	EMENT				STAND	ARD BE	NDINGS	3
MARK	DIA.	No.OFF	TOTAL	LENGTH	CODE	Α	В	С	D	E/R
01	Y12	20		4275	35	4035				
02	Y16	64		1510	35	1270				
03	Y12	40		1670	20	1670				
04	Y12	63		2000	37	120				
05	Y12	69		1440	38	100	1240			
06	Y12	18		2070	20	2070				
07	R10	28		810	83	330	90	150		
80	Y16	4		725	20	725				
09	Y16	10		1910	35	1670				
10	Y16	20		735	35	495				
11	Y16	20		735	35	495				
12	Y16	6		1910	35	1670				
13	Y16	6		1910	35	1670				
14	Y16	8		4675	35	4435				
15	Y16	5		3075	35	2835				
16	Y16	15		1910	35	1675				
17	Y16	6		4675	35	4435				
18	Y12	64		4435	20	4435				
19	Y12	18		4835	20	4835				
20	Y12	63		2000	37	120				
21	Y12	63		1535	37	150				
22	Y12	63		1535	37	150				
23	Y16	63		1560	38	120	1320			
24	Y12	18		2070	20	2070				
25	Y12	18		4835	20	4835				

NOTES

1. STRUCTURAL CONCRETE TO CONSIST OF GRADE 25/19
WITH CUBE CRUSHING STRENGTH OF 25MPa AT 28 DAYS. 2. COVER TO REINFORCEMENT = 40mm.



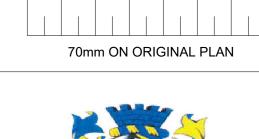
SCALE 1:25



BTK2 Consultants and Project Managers Seadorne Office Park, No.24 Seadorne Road, AMANZIMTOTI 4126 T: 083 278 4086 E: untando@gmail.com

E. dillando(	ggmaii.oom	
PLAN DESCRIPTION	DWG. NO.	SH NO
CONTINUED FROM		
CONTINUED ON		
CROSS SECTIONS		
TYPICAL CROSS SECTION		
SURVEY LAYOUT		

REDUCED PLAN USE SCALE BELOW 0 10 20 30 40 50 60 70





UPHONGOLO LOCAL MUNICIPALITY 61 Martins Street P.O. Box 191 PONGOLA 3170 T: 034 413 1706 E: thokozanim@uphongolo.co.za

GENERAL NOTES:

. CONTRACTOR TO VERIFY ALL LEVELS, HEIGHTS & DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK. 2. LARGE SCALE DRAWINGS TAKES PREFERENCE OVER SMALL SCALE DRAWINGS. 3. DO NOT SCALE DRAWINGS, DIMENSIONS ONLY

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AND THE LOCAL BY-LAWS & REGULATIONS. FOLLOWING TRADES TO BE EXECUTED IN ACCORDANCE WITH SABS CODES AND STANDARDS INDICATED: A. STRUCTURAL CONCRETE: SABS-0100 B. FOUNDATIONS: SABS-0162 C. STRUCTURAL STEEL: SABS - 0162 D. STRUCTURAL TIMBER: SABS - 0163

01 05/14/2021 For tender purposes only Revision Date

NOTE:No construction work to commence until land and servitude acquisitions have been completed

Acquisitions completed NORTH POINT UNDERGROUND SERVICES CHECKED SIGNATURE S.W.DRAINS WATER MAINS

G.P.O.CABLES ELECTRIC CABLES S.A.R. CABLES E.S.C. CABLES OIL PIPE LINE NOTE: Only underground services affected by new construction work are

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592/05/21 Contract No. Project Title

> **CONSTRUCTION OF** KWATHENGIZWE SPORTS COMPLEX

Drawing Title

SEPTIC TANK LAYOUT AND DETAILS

Scales	Reference
AS SHOWN	
Designed	Date
M.N.	MAY 2021
Checked	Drawn by
B.K.	M.N.

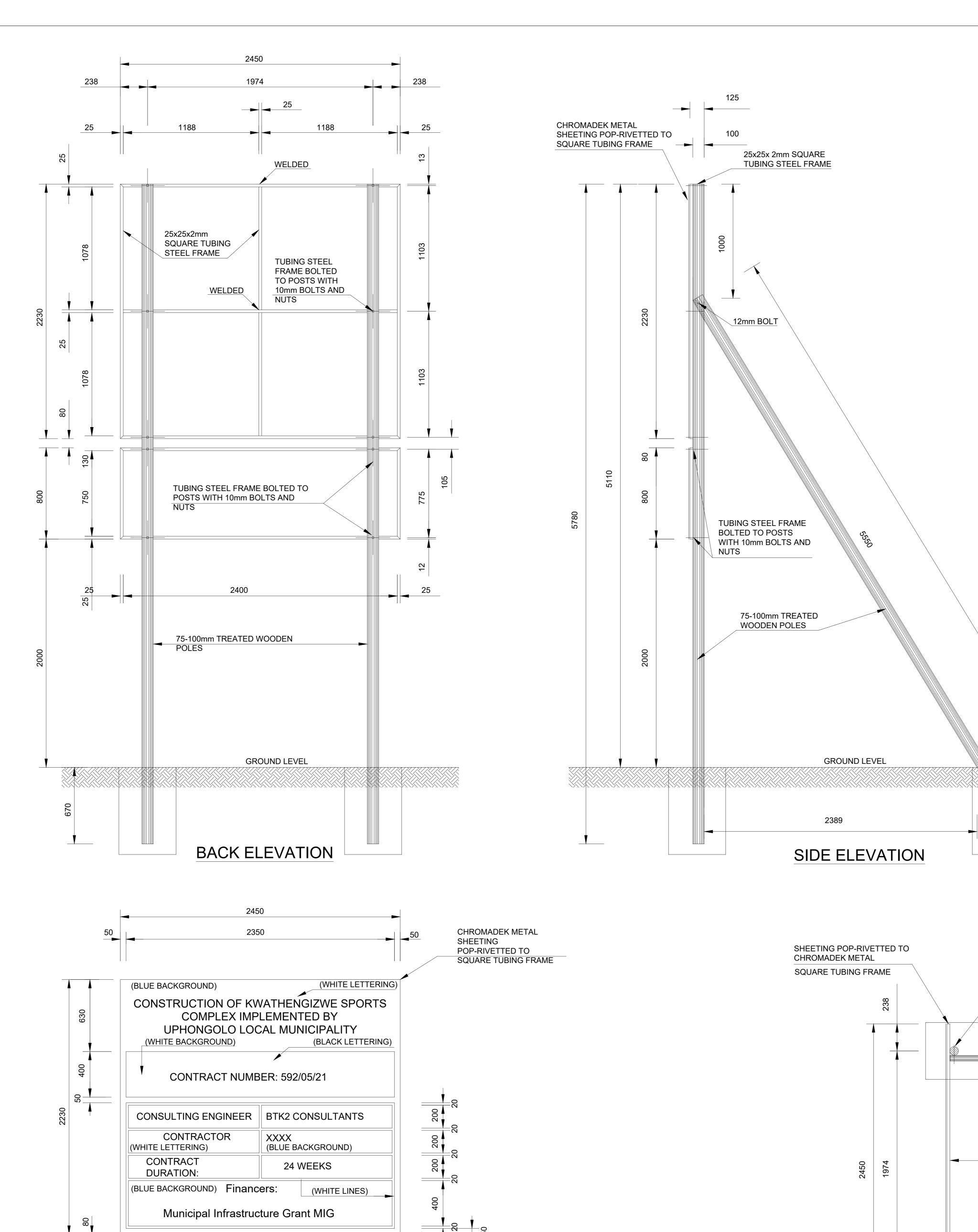
Project Technician:

PMU Manager:

Technical Director:

ISSUED FOR TENDER

Drawing No UPH\_005



(WHITE BACKGROUND)

(YELLOW BORDER)

1150

(WHITE BACKGROUND)

EXPANDED PUBLIC WORKS PROGRAMME
Creating opportunities towards human fulfilment

1150

FRONT ELEVATION

75-100mm TREATED WOODEN POLES

25 x 25 x 2mm SQUARE TUBING

STEEL FRAME

75-100mm TREATED

**WOODEN POLES** 

75-100mm TREATED WOODEN POLES

75-100mm TREATED WOODEN POLES

PLAN



E: untando(	@gmail.com	
PLAN DESCRIPTION	DWG. NO.	SHEET NO.
CONTINUED FROM		
CONTINUED ON		
CROSS SECTIONS		
TYPICAL CROSS SECTION		
SURVEY LAYOUT		
	PLAN DESCRIPTION  CONTINUED FROM  CONTINUED ON  CROSS SECTIONS  TYPICAL CROSS SECTION	CONTINUED FROM  CONTINUED ON  CROSS SECTIONS  TYPICAL CROSS SECTION

REDUCED PLAN USE SCALE BELOW

0 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN



UPHONGOLO LOCAL MUNICIPALITY
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AND THE LOCAL BY-LAWS & REGULATIONS.

AMBIGUOUS, INDISTINCT OR CAUSES

FOLLOWING TRADES TO BE EXECUTED IN ACCORDANCE WITH SABS CODES AND STANDARDS INDICATED:

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B. FOUNDATIONS: SABS-0162

C. STRUCTURAL STEEL: SABS - 0162

D. STRUCTURAL TIMBER: SABS - 0163

01 05/14/2021 For tender purposes only
Revision Date Description

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Acquisitions
completed

NORTH POINT

SERVICE DATE SIGNATURE

S.W.DRAINS

SEWERS

WATER MAINS

G.P.O.CABLES

ELECTRIC CABLES

S.A.R. CABLES

E.S.C. CABLES

OIL PIPE LINE

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CONSTRUCTION OF
KWATHENGIZWE

592/05/21

Drawing Title

Contract No.

SIGNBOARD LAYOUT AND DETAILS

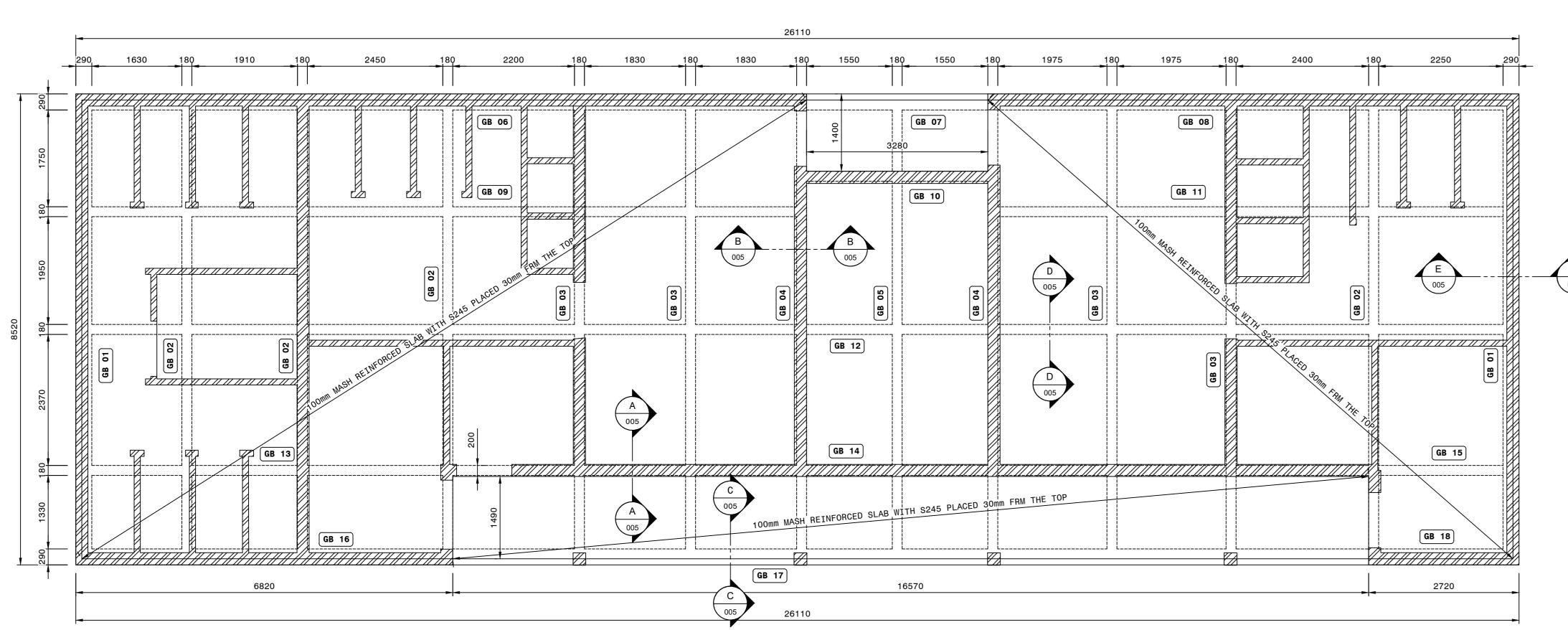
SPORTS COMPLEX

Scales	Reference
AS SHOWN	
	D
Designed	Date
M.N.	MAY 2021
Checked	Drawn by
B.K.	M.N.

Project Technician:

PMU Manager:

Technical Director:



GROUND BEAM SCHEDULE 180x650 180x650 180x650/735 180x650 180x650 180x650 180x650 180x650 180x735 180x650 180x650 180x650 180x735 180x650 180x650 180x650 GB 18 180x650

NOTE:

- 1. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE.
- 2. POSITION OF ALL NEW STRUCTURES TO BE CONFIRMED OR DETERMINED ON SITE.
- 3. CONTRACTOR TO ACCORDINGLY REINSTATE ALL AREAS AFFECTED BY CONSTRUCTION AND INSTALLATION OF NEW WORKS.

2.2 Beams and Suspended Slabs ......30MPa/19mm 2.5 All exposed concrete to have smooth off shutter finish in accordance with SANS 1200G. COVER

2. CONCRETE (at 28 days)

3.1 Beams . . . . 35mm 3.2 Slabs . . . . 30mm

1 . GENERAL

1.1 All building work must comply with Local and National building Regulations.

1.3 All brickwork to be set out according to

architect's drawing.

approval of the engineer.

1.7 No scaling of dimensions are permitted.

1.8 All dimensions to be checked on site.

boundary and building lines.

the drawing.

1.2 This drawing must be read in conjunction with the

1.4 All work to be performed in accordance with the

1200GE & SANS 1200GF as applicable.

architect's and all relevant specialists' and

engineer's drawings verified against the same.

4. CONSTRUCTION

4.1 No concrete may be cast until the reinforcement has been completed and approved by the Engineer. 4.2 Stripping times of formwork and props to be in accordance with SANS 1200G clause 5.2.5: 4.3 Concrete to be adequately compacted by means of a a vibrator.

4.4 The contractor must use approved cover blocks of adequate strength in order to withstand working conditions. Minimum strength equal to concrete strength specified.

4.5 Construction joints to be approved by engineer. 4.6 Exposed concrete surfaces to be continually cured for a minimum of 10 days. FOUNDATIONS

5.1 Founding conditions to be inspected and approved by the engineer prior to casting concrete. 5.2 Design bearing pressure = 150kPa. 5.3 Foundation levels indicated are approximate and

will be confirmed on site by the Engineer. 6. CONCRETE CUBE TEST 6.1 Concrete cube tests to be done in accordance with

SANS 1200G clause 7: Tests. 7. BRICKWORK 7.1 All load bearing brickwork must be in accordance

with SANS 10164. 7.2 All load bearing brickwork to be NFX 25MPa bricks. 7.3 All non-loadbearing brickwork to be 7MPa bricks. 7.4 Class II mortar to be used in accordance with Table 1 SANS 10164 Part 1 - 1980. 7.5 Wall ties in cavity walls and brick retaining

walls shall be of the plastic type 'Posi-ties'

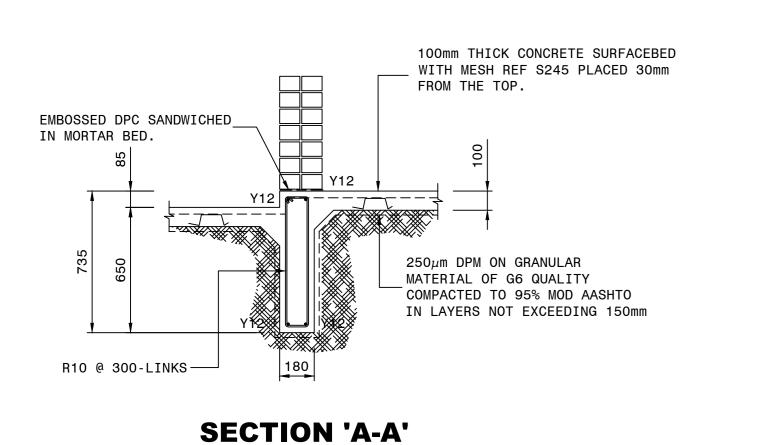
SANS 10164 Part 1 - 1980 or similar approved

c/c horizontally. 7.6 All brickwork shall be tied to concrete with galvanized hoop iron every 4th course.

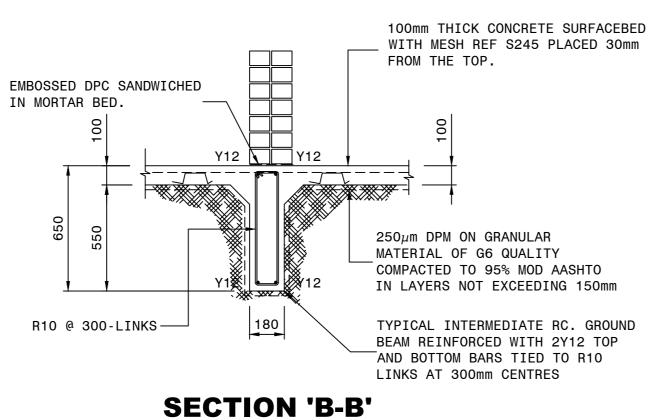
type, placed every 4th layer vertically and at 500mm

## **RAFT FOUNDATION LAYOUT**

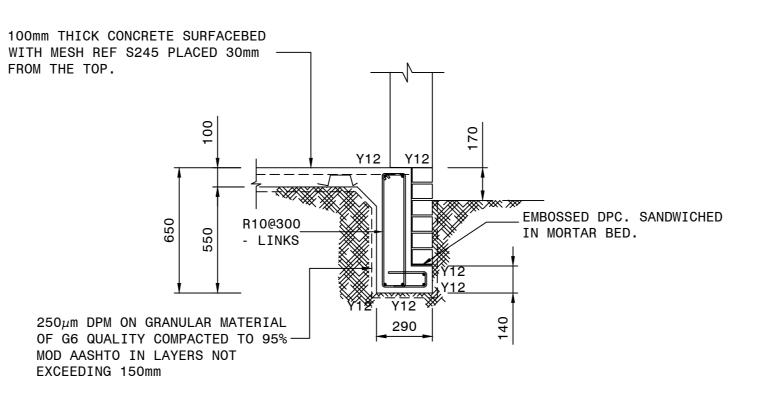
SCALE 1=50

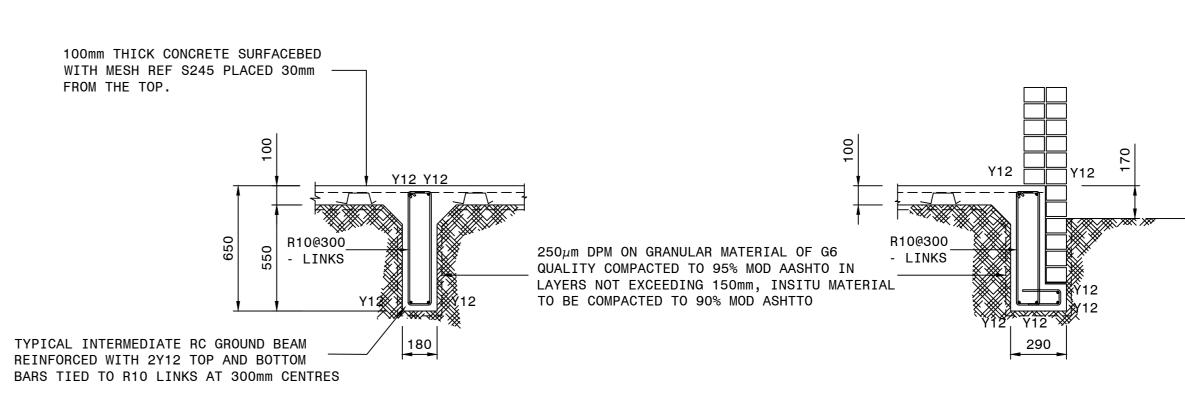


SCALE 1=20



SCALE 1=20





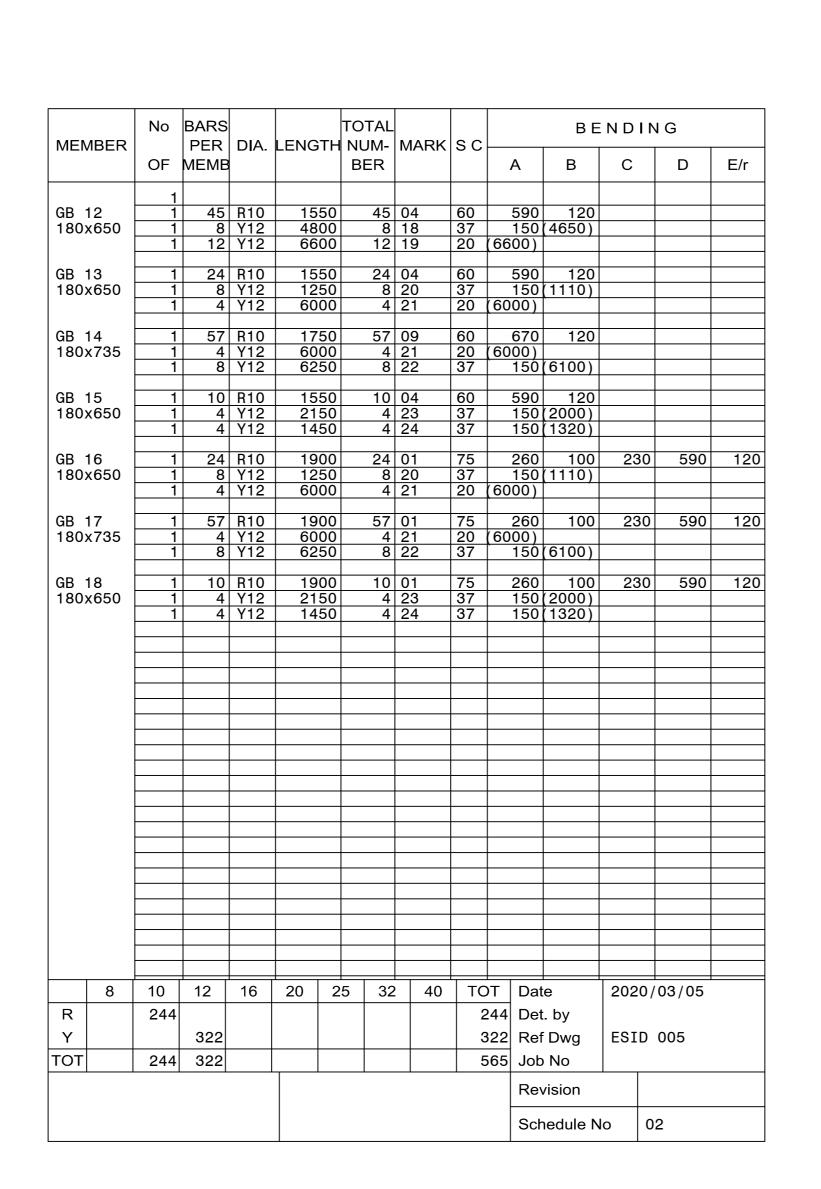
**SECTION 'C-C'** SCALE 1=20

**SECTION 'D-D'** SCALE 1=20

**SECTION 'E-E'** 

SCALE 1=20

	No	BARS		LENGT	TOTAL		0.0			ВЕ	NDI	N G	
MEMBE	OF	PER MEMB	DIA.	LENGTH	BER	MARK	SC	,	A	В	С	D	E/r
GB 01	2	29	R10	1900			75		260	100	230	590	120
180x650	2	2 8	Y12	2000		02	37			(1860)			
	2	2 4	Y12	6000	8	03	20	(60	00)				
GB 02	4	29	R10	1550	116	04	60		590	120			
180x650		2 8	Y12	2000			37			(1860)			
	2	2 4	Y12	6000	8	03	20	(60	00)				
GB 03	4	29	R10	1550	116	04	60		590	120			
180x650			Y12	6150		05	37			(6000)			
	4		Y12	1500		06	37			(1390)			
			Y12	1650	16		37			(1500)			
	4	4	Y12	1000	16	08	37		150	(880)			
GB 04	2	24	R10	1550	48	04	60		590	120			
180x650	2	2 4	Y12	6150	8	05	37			(6000)			
	4	2 4	Y12	1500		06	37						
	2	2 4	Y12	1650			37		150	(1500)			
	2	2 4	Y12 R10	1000 1750	8 12		37 60		150 670	(880)			
			Y12	1450	4	10	37		130	(1340)			
							0,						
GB 05			R10	1550	29		60		<u>590</u>	120			
180x650		<del>-</del>	Y12 Y12	1500 1650		06 07	37 37			(1390)			
			Y12	1000			37	_	150 150	(1500) (880)			
	-		Y12	4900	4		37			(4780)			
GB 06	-	45	R10	1900	45	01	75		260	100	230	590	120
180x650		8	Y12	4350	8	12	37		150	(4210)			
	-	4	Y12	6000	4	13	20	(60	00)				
GB 07	-	13	R10	1900	13	01	75		260	100	230	590	120
180x650	•		Y12	3150		14	37			(3000)			
	-	4	Y12	1450	4	15	37		150	(1340)			
GB 08	-	33	R10	1900	33	01	75		260	100	230	590	120
180x650			Y12	2550		16	37			(2400)			120
	-			6000		17	20	(60	00)				
GB 09	<u> </u>	15	D10	1550	15	0.4	60		500	100			
180x650	,	45 8		4350		04 12	60 37		590 150	120 (4210)			
Ισσκοσο	· -		Y12	6000		13	20		00)	1210)			
00 40			D.1.0	4750		00	00		070	100			
GB 10	,	6		1750 3150		09 14	60 37		670 150	120 (3000)			
180x735	' <del>  -</del>		Y12	1450			37			(1340)			
GB 11			R10 Y12	1550 2550		04	60 37		590	120			
180x650	' -		Y12	6000		16 17	20		00)	(2400)			
8	10	12	16		25 32	<b>-</b>	TC		Dat	ie	2020	0/03/05	
R	564						+	564		i. by		, ,	
	304						1			•	FOTE	005	
Υ		624					+			Dwg	5310	005	
ГОТ	564	624					11	188	Job	No	<u> </u>		
									Rev	vision			
									<u> </u>		-+	01	
									C _ i.	nedule N	_ '		



latest version of SANS 10100 part 2, 1200G, SANS E: untando@gmail.com 1.5 All notes are general unless otherwise shown on PLAN DESCRIPTION DWG. NO. 1.6 No structural alterations may be done without the CONTINUED FROM 1.9 Contractor to keep a full set of drawings on site. CONTINUED ON 1.10 Contractor is responsible for correct setting out of building on site with particular reference to CROSS SECTIONS TYPICAL CROSS 2.1 Brick Pier Bases . . .................30 MPa/19mm SECTION

CONSULTING AND PROJECT MANAGERS

BTK2 Consultants and Project Managers

Seadorne Office Park,

No.24 Seadorne Road, AMANZIMTOTI 4126

T: 083 278 4086

SURVEY LAYOUT REDUCED PLAN USE SCALE BELOW 10 20 30 40 50 60 70

70mm ON ORIGINAL PLAN

UPHONGOLO LOCAL MUNICIPALITY 61 Martins Street P.O. Box 191 PONGOLA 3170 T: 034 413 1706 E: thokozanim@uphongolo.co.za

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**CONSTRUCTION OF** KWATHENGIZWE SPORTS COMPLEX

Drawing Title

Project Title

RAFT FOUNDATION LAYOUT AND DETAILS

Reference AS SHOWN Designed M.N. MAY 2021 B.K. M.N. Project Technician:

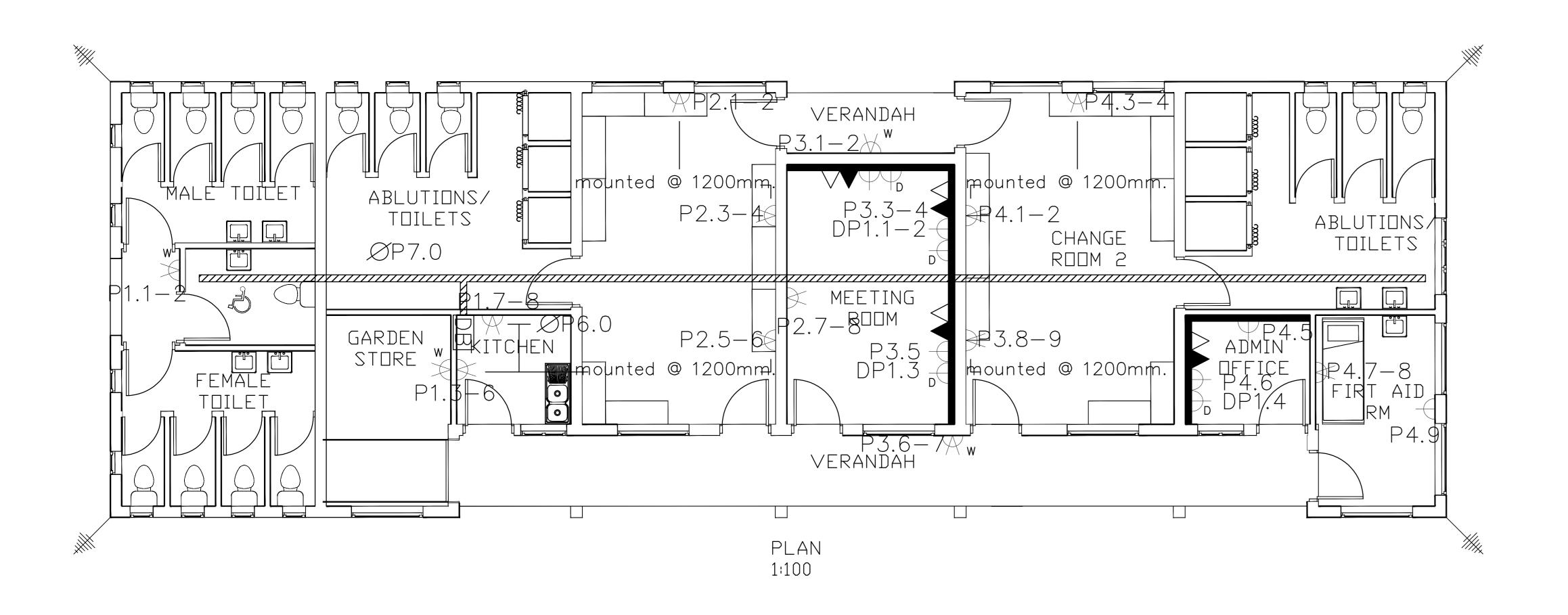
Technical Director:

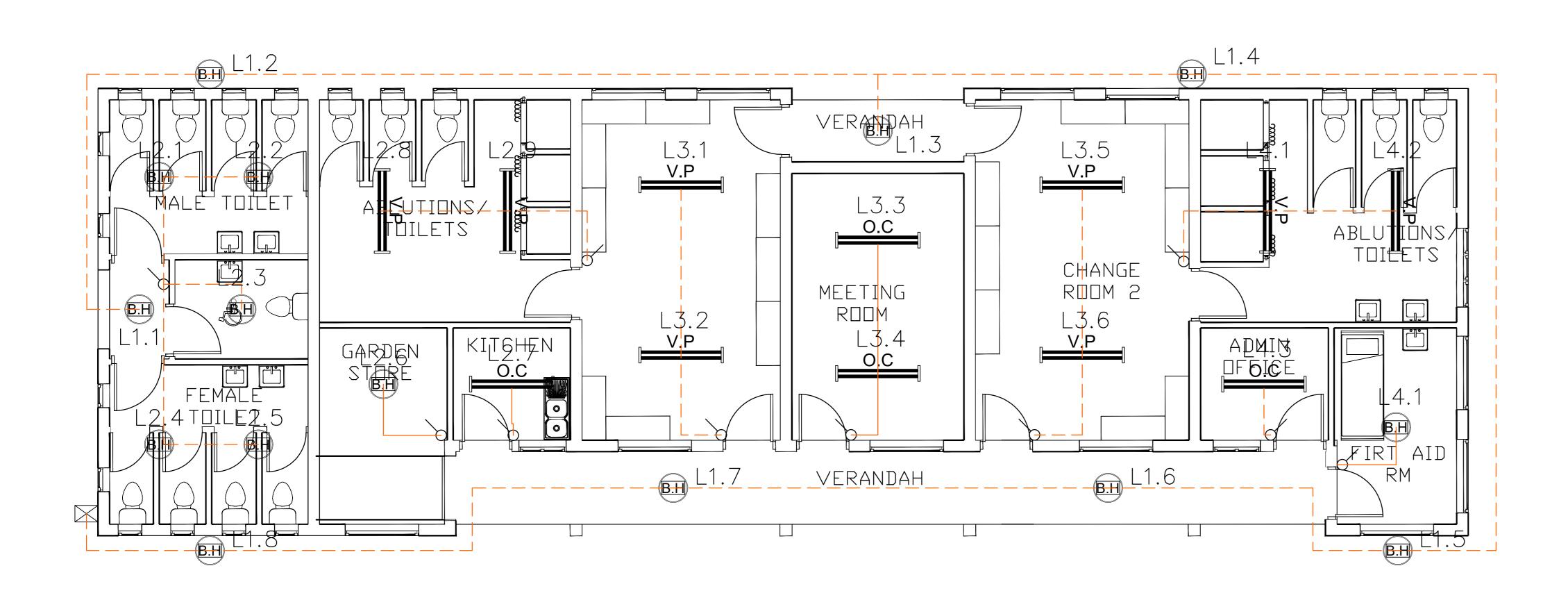
ISSUED FOR TENDER

Drawing No

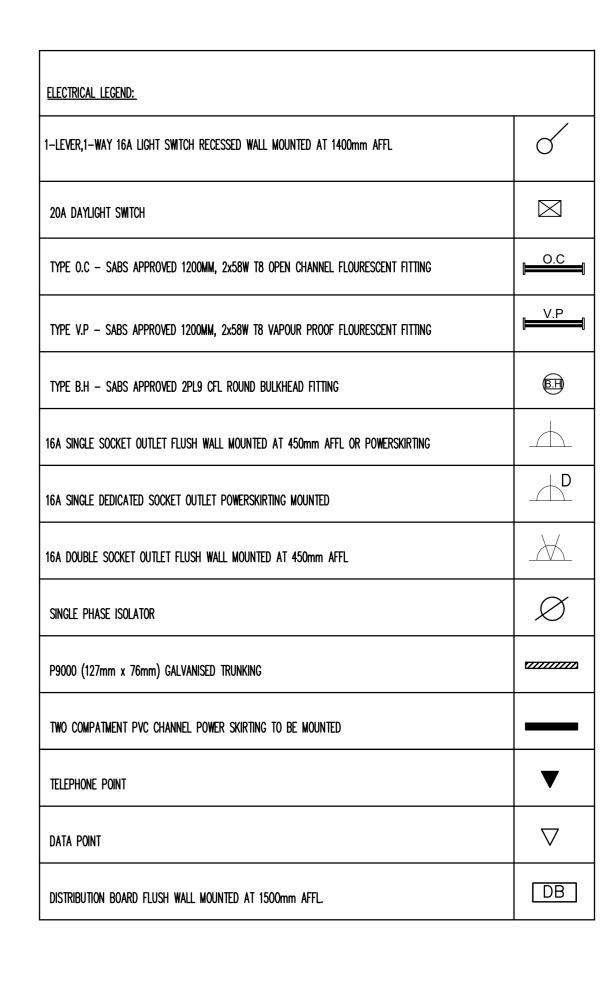
PMU Manager:

Sheet 1 UPH\_007

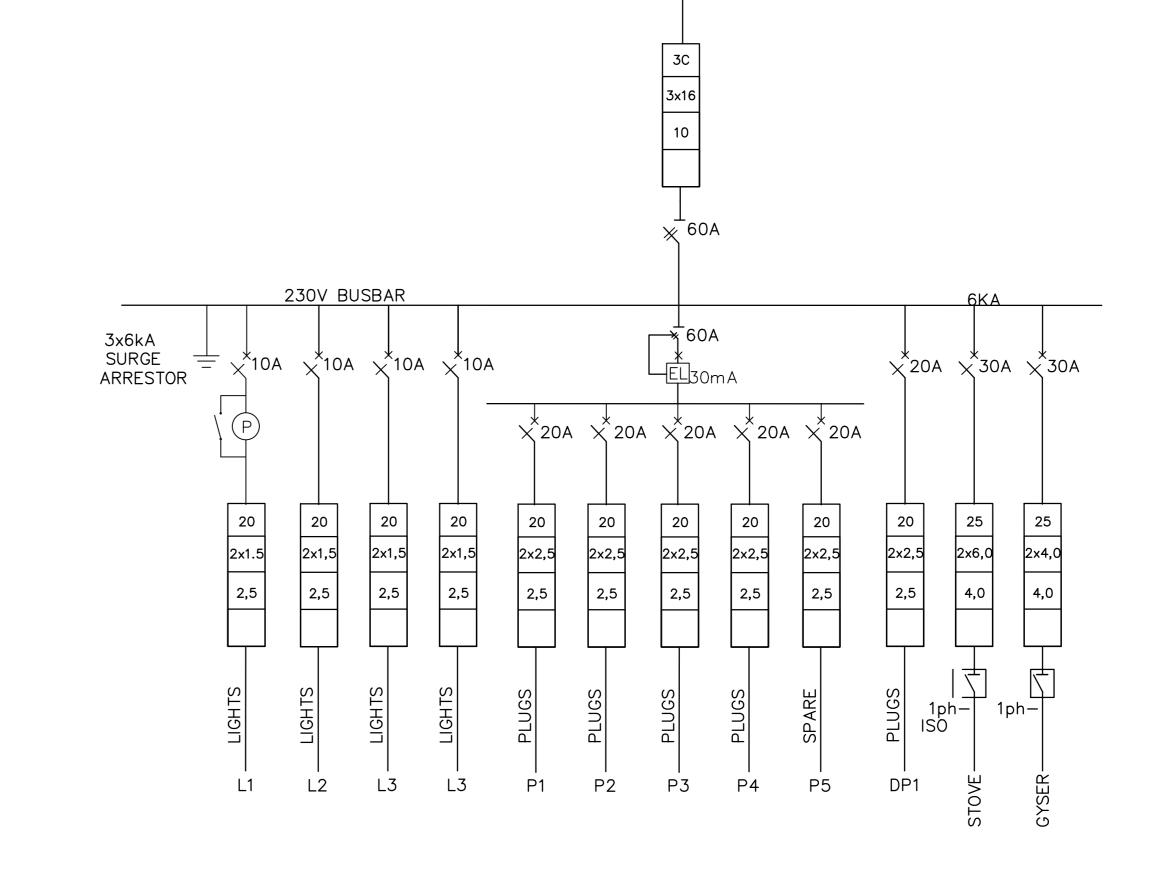




Orange	Gre	у		Other	
COLOUR: White	⊠ Red	1		Cream	
DOORS: Yes	None		Lock	able	
Recessed			Surfa	ice	
MOUNTING: Free Star	nding		Floor	•	
FEEDERS: Bottom		Тор		Side	
SUPPLY: Bottom		Тор	$\boxtimes$	Side	
RATING - BUSBAR: 80	0 <i>A</i>	FAULT:	6kA		
NAME: DB -A		VOLTAG	GE: 230	)V	









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CONTINUED FROM		
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- STANDARDS INDICATED:

  A. STRUCTURAL CONCRETE: SABS-0100

  B. FOUNDATIONS: SABS-0162

  C. STRUCTURAL STEEL: SABS 0162

  D. STRUCTURAL TIMBER: SABS 0163

01	05/14/2021	l	For tender purposes only
Revision	Date		Description
work to co land and s acquisition completed	s have beer	til	N
	uisitions mpleted		NORTH POINT
DATE	Eng	ineer	

DATE Engineer

UNDERGROUND SERVICES CHECKED

SERVICE DATE SIGNATURE

S.W.DRAINS

SEWERS

WATER MAINS

G.P.O.CABLES

ELECTRIC CABLES

S.A.R. CABLES

E.S.C. CABLES

OIL PIPE LINE

NOTE:

Only underground services affected by new construction work are shown. Care must be taken during excavations for road foundations,trenches etc...to avoid damage to underground services such as sewers, drains, cables, water mains and connections.

Wherever possible these must be located before work proceeds.

592/05/21
Contract No.
Project Title

CONSTRUCTION OF KWATHENGIZWE SPORTS COMPLEX

Drawing Title

ELECTRICAL LAYOUT

Scales	Reference			
AS SHOWN				
Designed	Date			
M.N.	MAY 2021			
Checked	Drawn by			
B.K.	M.N.			

Technical Director:

PMU Manager:

ISSUED FOR TENDER

Drawing No
UPH\_008