



**FOR TENDER PURPOSES ONLY**

CERTIFIED AS A QUALITY CONTRACT:

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION / AMENDMENTS

NO.	DATE	CERTIFIED BY	APPROVED BY
1	22/03/2021	SM	FM

CHECKED: \_\_\_\_\_

CONSULTANT: **Infra Projects Africa**

PROJECT TITLE: REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE: SITE PLAN

DATE: MARCH 2021

SCALE: DRAWN: \_\_\_\_\_ CHECKED: \_\_\_\_\_

DRAWING NO: IPABPINS/SP/01

REVISION: 01

APPROVED ON BEHALF OF INFRA PROJECTS AFRICA: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

CLIENT: BA-PHALABORWA  
 GOLF AND COUNTRY CLUB  
 PRIVATE BAG 5 01020  
 PHALABORWA  
 1390  
 TEL: 015 780 8300  
 FAX: 015 781 0726

CONSULTANT: INFRA PROJECTS AFRICA  
 SUIT NO. 5 SUID PARK  
 1268 SUID STREET  
 POLOKwane  
 0699  
 TEL: 015 291 2040

**LEGEND**

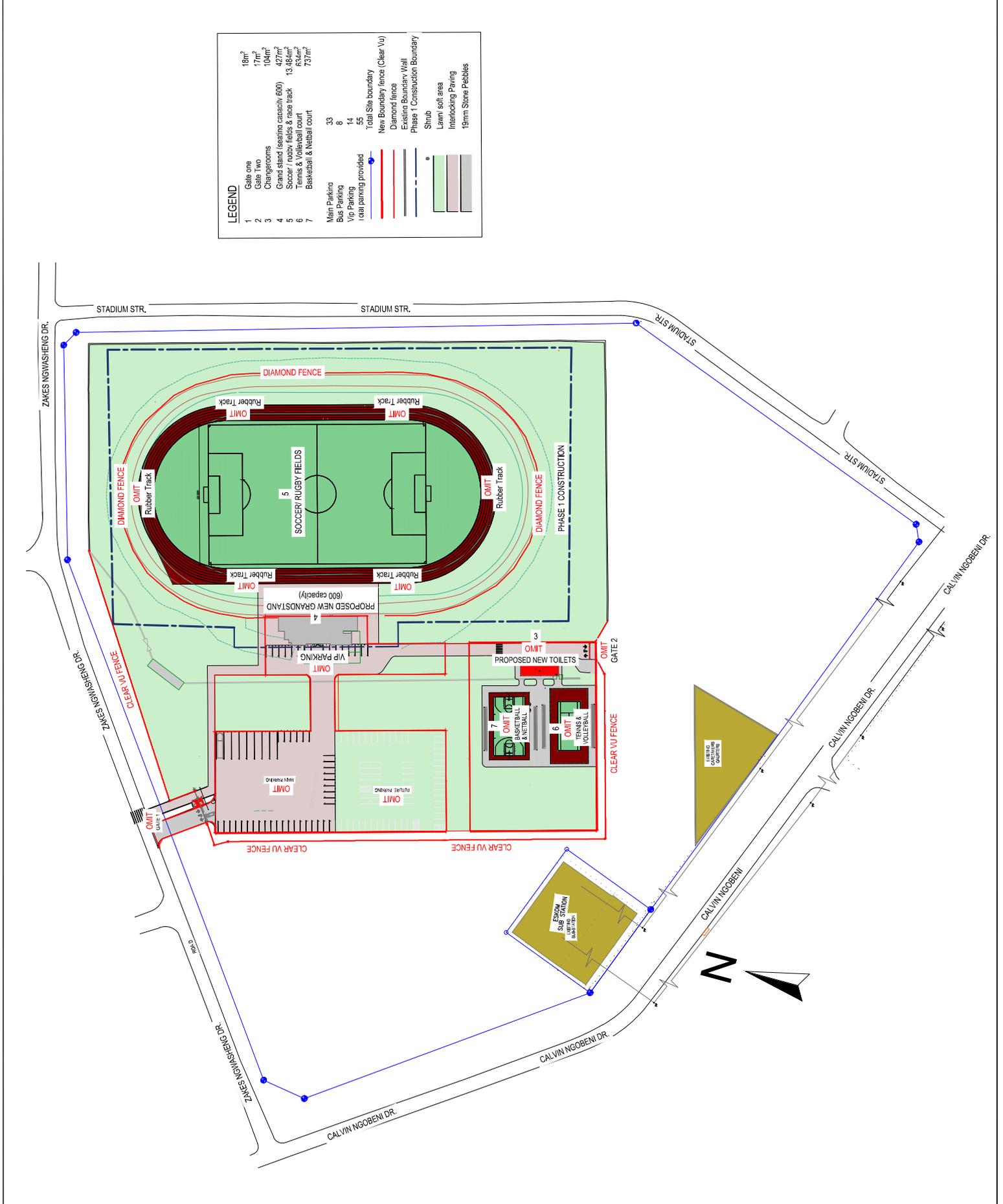
1	Gate one	18m <sup>2</sup>
2	Gate Two	17m <sup>2</sup>
3	Changerooms	104m <sup>2</sup>
4	Grand stand (seating capacity 600)	427m <sup>2</sup>
5	Soccer / rugby fields & race track	13,484m <sup>2</sup>
6	Tennis & Volleyball court	634m <sup>2</sup>
7	Basketball & Netball court	737m <sup>2</sup>

Main Parking	33
Bus Parking	8
Vip Parking	14
total parking provided	55

Total Site boundary  
 New Boundary fence (Clear Vu)  
 Diamond fence  
 Existing Boundary Wall  
 Phase 1 Construction Boundary

Strob  
 Lawn soft area  
 Interlocking Paving  
 19mm Stone Pebbles





**NOTES:**

- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200mm above FFL
- 3) If Step over 900mm Build in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
- 6) 50mm mineral wool insulation to be installed where there are ceilings. Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
- 7) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200mm
- 8) Trusses to be designed in accordance with SABS0400 & approved by Project Engineers

FOR TENDER PURPOSES ONLY

CERTIFIED AS BUILT FOR CONTRACT:		DESIGNER:	DATE:
VERSION AMENDMENTS		CERTIFIED BY:	AUTHORISED BY:
NO.	DATE	SM	FM
1	22/03/2021		

CLIENT: **EC-PAHALABORWA LOCAL MUNICIPALITY**  
 PHALABORWA 07020  
 1380  
 TEL. 015 780 6300  
 FAX. 015 781 0728



CONTRACT NAME: **Infra Projects Africa**  
 INFRA PROJECTS AFRICA  
 1000 RIVERVIEW PARK  
 100 SUDS STREET  
 POLOKWANE  
 06699  
 TEL. 015 281 2040

REFURBISHMENT OF NAMAKGALE STADIUM

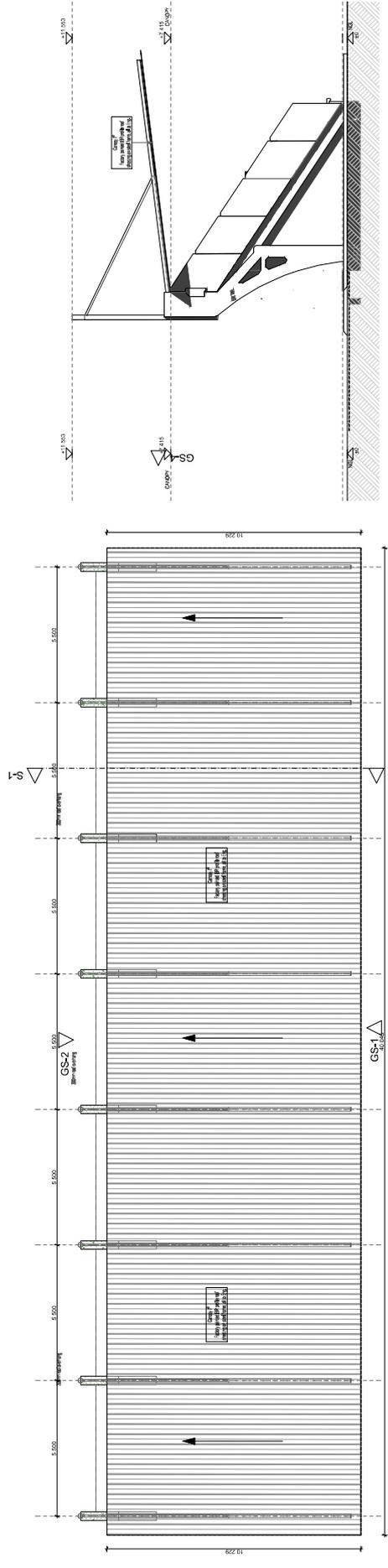
DRAWING TITLE

GENERAL LAYOUT GRANDSTAND DETAILS

DATE:	MARCH 2021		
SCALE DRAWN:	1:250	COORDINATE	
		DRAWN	CHECKED
DESIGNED BY:	IP/ABNS/GDD/01	CHECKED	01

APPROVED ON BEHALF OF INFRA PROJECTS AFRICA

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

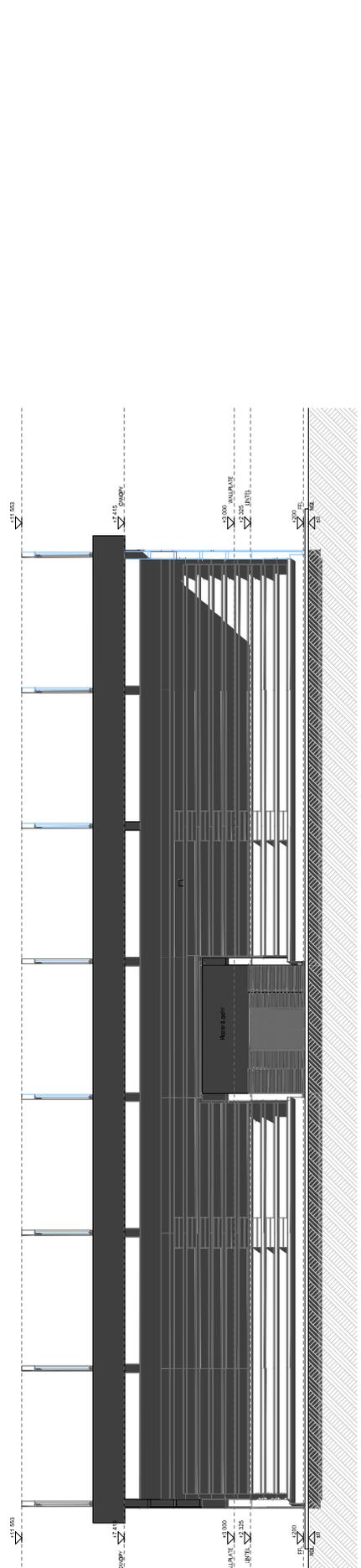


GRAND STAND ROOF PLAN

1:100

GRAND STAND ROOF PLAN

1:100



ELEVATION GS-3

1:100

ELEVATION GS-1

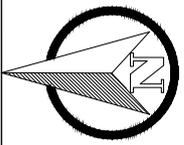
1:100











PLATFORM 1				
POINT	Y	X	LEVEL	
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007	-3202.092	2448.324949	408.834	
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009	-3202.102	2448.362511	409.050	
010	-3202.107	2448.381292	409.158	
011	-3202.112	2448.400073	409.266	
012	-3202.117	2448.418854	409.374	
013	-3202.122	2448.437635	409.482	
014	-3202.127	2448.456416	409.590	
015	-3202.132	2448.475197	409.698	
016	-3202.137	2448.493978	409.806	
017	-3202.142	2448.512759	409.914	
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186	-3202.987	2448.986748	409.998	
187	-3202.992	2448.105529	409.998	
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190	-3203.007	2448.161872	409.998	
191	-3203.012	2448.180653	409.998	
192	-3203.017	2448.199434	409.998	
193	-3203.022	2448.218215	409.998	
194	-3203.027	2448.236996	409.998	
195	-3203.032	2448.255777	409.998	
196	-3203.037	2448.274558	409.998	
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198	-3203.047	2448.312120	409.998	
199	-3203.052	2448.330901	409.998	
200	-3203.057	2448.349682	409.998	

PLATFORM 3				
POINT	Y	X	LEVEL	
101	-3222.08	2448.0289	402.987	
102	-3222.047	2448.0489	402.908	
103	-3222.025	2448.0289	402.928	
104	-3222.003	2448.0091	402.948	
105	-3221.981	2448.0492	402.968	
106	-3221.959	2448.0893	402.988	
107	-3221.937	2448.1294	403.008	
108	-3221.915	2448.1695	403.028	
109	-3221.893	2448.2096	403.048	
110	-3221.871	2448.2497	403.068	
111	-3221.849	2448.2898	403.088	
112	-3221.827	2448.3299	403.108	
113	-3221.805	2448.3700	403.128	
114	-3221.783	24		

SETTING OUT DATA FOR ACCESS			
NAME	Y	X	COORDINATE
1	10000	10000	10000
2	10000	10000	10000
3	10000	10000	10000
4	10000	10000	10000

NGL -----  
 ROAD -----  
 SLOPES -----  
 Horizontal 1:20  
 Vertical 1:25

DATA: 485.000  
 STATION: 0+000  
 CHAINAGE: 0+000

FINAL DESIGN  
 ROAD LEVELS

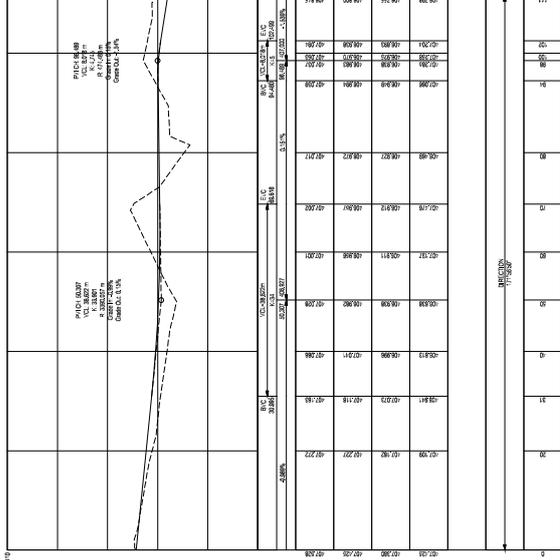
LEFT EDGE (RL)  
 CENTRE LINE (CL)  
 RIGHT EDGE (RR)

GROUND LEVELS ON CL

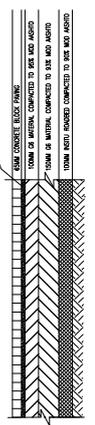
SUPERELEVATION LEFT ..... RIGHT ---

HORIZONTAL ALIGNMENT

DISTANCE (m)



LONG SECTION AND ACCESS PROFILE TO STAGE



TYPICAL SUB HORIZONTAL CROSS SECTION

**FOR TENDER PURPOSES ONLY**

CERTIFIED AS BUILT FOR CONTRACT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

**VERSION AMENDMENTS**

NO.	DATE	CERTIFIED BY	AUTHORIZED BY

CLIENT: **BA-PHALABORWA LOCAL MUNICIPALITY**  
 PRIVATE BAG X 01020  
 PHALABORWA  
 1350  
 TEL: 015 781 8300  
 FAX: 015 781 0728

CONSULTANT: **Infra Projects Africa**  
 INFRA PROJECTS AFRICA  
 SUIT NO. 2 SUID PARK  
 7285 SUID STREET  
 0801 PHALABORWA  
 0899  
 TEL: 015 231 2040

PROJECT TITLE: **REFURBISHMENT OF NAMAKKALE STADIUM**

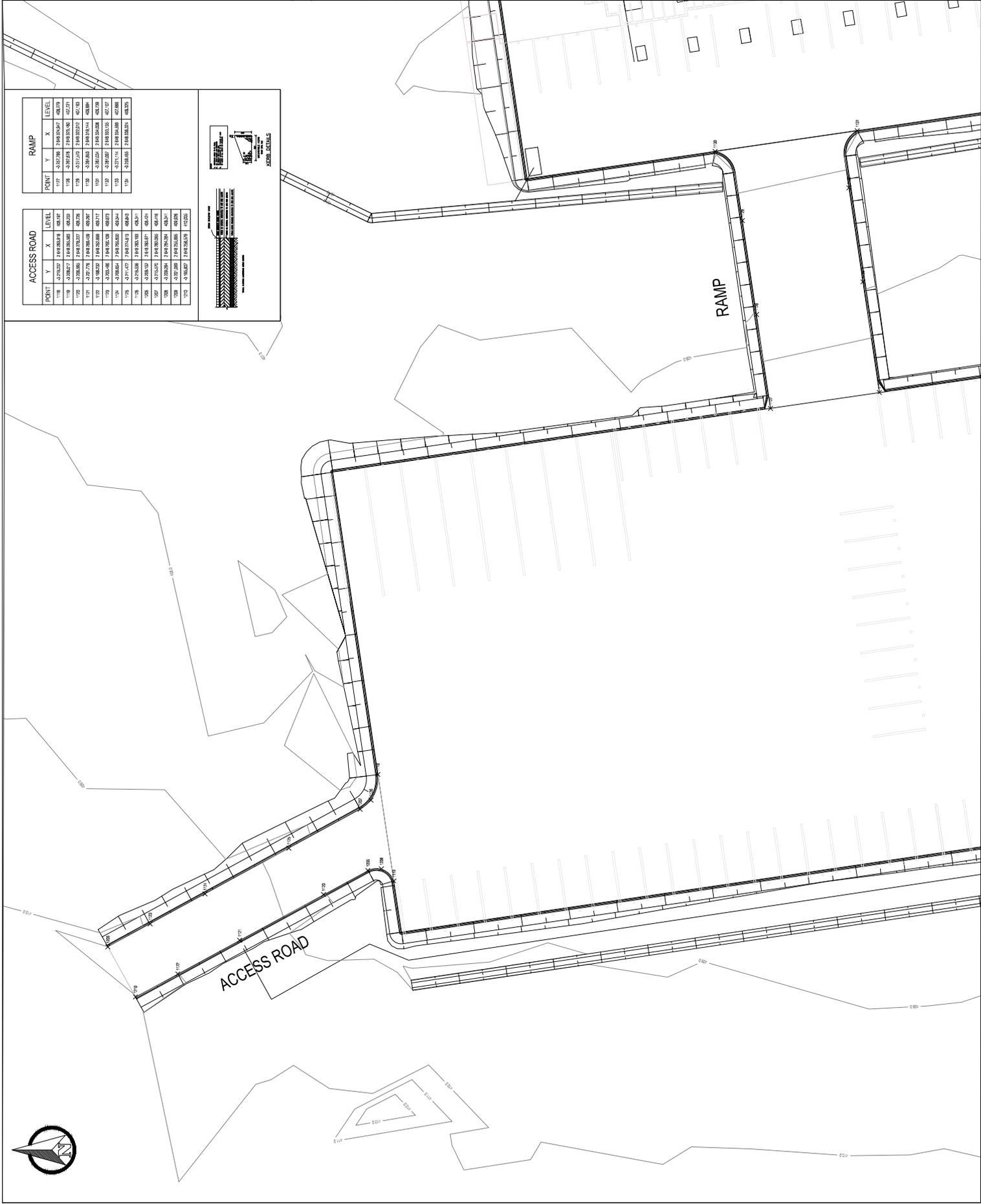
DRAWING TITLE: **ACCESS ROAD NUMBER 2**

DATE: **JUNE 2022**

DESIGNER: \_\_\_\_\_ SYSTEM: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_ DESIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED ON BEHALF OF INFRA PROJECTS AFRICA

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWING NO.: **IPAP/PLANS/SLPRD02** TENDER: **01**

APPROVED: \_\_\_\_\_  
 CLIENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CLIENT: \_\_\_\_\_  
 DRAWING NO.: \_\_\_\_\_



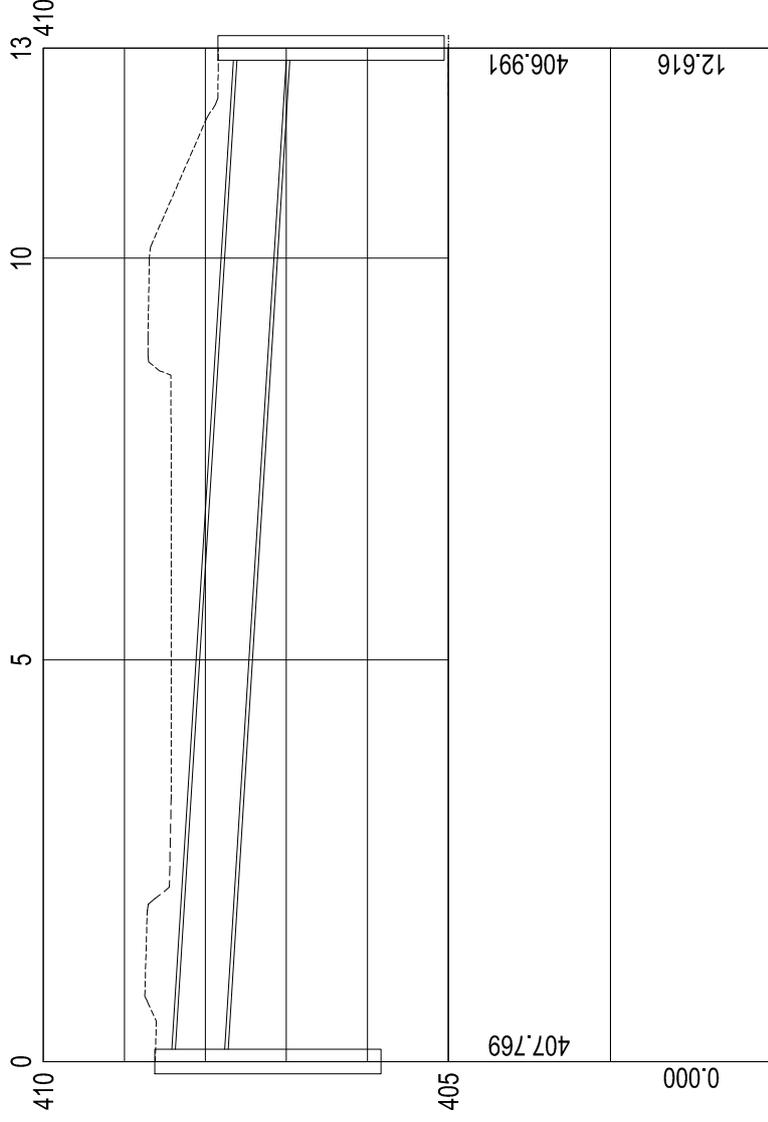
ACCESS ROAD				RAMP			
POINT	Y	X	LEVEL	POINT	Y	X	LEVEL
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119	-231627	2461383.8	487.78	118	-231739	2461383.8	487.71
120	-231636	2461383.7	487.78	119	-231748	2461383.7	487.91
121	-231645	2461383.6	487.97	120	-231757	2461383.6	488.08
122	-231654	2461383.5	487.77	121	-231766	2461383.5	488.08
123	-231663	2461383.4	487.77	122	-231775	2461383.4	487.77
124	-231672	2461383.3	487.77	123	-231784	2461383.3	487.77
125	-231681	2461383.2	487.77	124	-231793	2461383.2	487.77
126	-231690	2461383.1	487.77	125	-231802	2461383.1	487.77
127	-231699	2461383.0	487.77	126	-231811	2461383.0	487.77
128	-231708	2461382.9	487.77	127	-231820	2461382.9	487.77
129	-231717	2461382.8	487.77	128	-231829	2461382.8	487.77
130	-231726	2461382.7	487.77	129	-231838	2461382.7	487.77
131	-231735	2461382.6	487.77	130	-231847	2461382.6	487.77
132	-231744	2461382.5	487.77	131	-231856	2461382.5	487.77
133	-231753	2461382.4	487.77	132	-231865	2461382.4	487.77
134	-231762	2461382.3	487.77	133	-231874	2461382.3	487.77
135	-231771	2461382.2	487.77	134	-231883	2461382.2	487.77
136	-231780	2461382.1	487.77	135	-231892	2461382.1	487.77
137	-231789	2461382.0	487.77	136	-231901	2461382.0	487.77
138	-231798	2461381.9	487.77	137	-231910	2461381.9	487.77
139	-231807	2461381.8	487.77	138	-231919	2461381.8	487.77
140	-231816	2461381.7	487.77	139	-231928	2461381.7	487.77
141	-231825	2461381.6	487.77	140	-231937	2461381.6	487.77
142	-231834	2461381.5	487.77	141	-231946	2461381.5	487.77
143	-231843	2461381.4	487.77	142	-231955	2461381.4	487.77
144	-231852	2461381.3	487.77	143	-231964	2461381.3	487.77
145	-231861	2461381.2	487.77	144	-231973	2461381.2	487.77
146	-231870	2461381.1	487.77	145	-231982	2461381.1	487.77
147	-231879	2461381.0	487.77	146	-231991	2461381.0	487.77
148	-231888	2461380.9	487.77	147	-232000	2461380.9	487.77
149	-231897	2461380.8	487.77	148	-232009	2461380.8	487.77
150	-231906	2461380.7	487.77	149	-232018	2461380.7	487.77
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152	-231924	2461380.5	487.77	151	-232036	2461380.5	487.77
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154	-231942	2461380.3	487.77	153	-232054	2461380.3	487.77
155	-231951	2461380.2	487.77	154	-232063	2461380.2	487.77
156	-231960	2461380.1	487.77	155	-232072	2461380.1	487.77
157	-231969	2461380.0	487.77	156	-232081	2461380.0	487.77
158	-231978	2461379.9	487.77	157	-232090	2461379.9	487.77
159	-231987	2461379.8	487.77	158	-232099	2461379.8	487.77
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162	-232014	2461379.5	487.77	161	-232126	2461379.5	487.77
163	-232023	2461379.4	487.77	162	-232135	2461379.4	487.77
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165	-232041	2461379.2	487.77	164	-232153	2461379.2	487.77
166	-232050	2461379.1	487.77	165	-232162	2461379.1	487.77
167	-232059	2461379.0	487.77	166	-232171	2461379.0	487.77
168	-232068	2461378.9	487.77	167	-232180	2461378.9	487.77
169	-232077	2461378.8	487.77	168	-232189	2461378.8	487.77
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171	-232095	2461378.6	487.77	170	-232207	2461378.6	487.77
172	-232104	2461378.5	487.77	171	-232216	2461378.5	487.77
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174	-232122	2461378.3	487.77	173	-232234	2461378.3	487.77
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177	-232149	2461378.0	487.77	176	-232261	2461378.0	487.77
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183	-232203	2461377.4	487.77	182	-232315	2461377.4	487.77
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196	-232320	2461376.1	487.77	195	-232432	2461376.1	487.77
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205	-232401	2461375.2	487.77	204	-232513	2461375.2	487.77
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207	-232419	2461375.0	487.77	206	-232531	2461375.0	487.77
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222	-232554	2461373.5	487.77	221	-232666	2461373.5	487.77
223	-232563	2461373.4	487.77	222	-232675	2461373.4	487.77
224	-232572	2461373.3	487.77	223	-232684	2461373.3	487.77
225	-232581	2461373.2	487.77	224	-232693	2461373.2	487.77
226	-232590	2461373.1	487.77	225	-232702	2461373.1	487.77
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228	-232608	2461372.9	487.77	227	-232720	2461372.9	487.77
229	-232617	2461372.8	487.77	228	-232729	2461372.8	487.77
230	-232626	2461372.7	487.77	229	-232738	2461372.7	487.77
231	-232635	2461372.6	487.77	230	-232747	2461372.6	487.77
232	-232644	2461372.5	487.77	231	-232756	2461372.5	487.77
233	-232653	2461372.4	487.77	232	-232765	2461372.4	487.77
234	-232662	2461372.3	487.77	233	-232774	2461372.3	487.77
235	-232671	2461372.2	487.77	23			



**SCALES:**  
Horizontal 1:100  
Vertical 1:100

**CULVERT INVERT LEVEL**

**DISTANCE (m)**



**CULVERT LONG SECTION**

FOR TENDER PURPOSES ONLY

CERTIFIED AS QUILLER FOR DRAWING:

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION AMENDMENTS

NO.	DATE	DESCRIPTION	AUTHORISED BY:

CLIENT:



BE PHALABORWA  
BE PHALABORWA MUNICIPALITY  
PRIVATE BAG 01020  
PHALABORWA  
1380  
TEL: 015 799 0300  
FAX: 015 791 9729

CONSULTANT:



INFRA PROJECTS AFRICA  
SUITE NO.2 SUID PARK  
1268 SUID STREET  
POLKOWANE  
0689  
TEL: 015 261 2640

PROJECT TITLE:

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE:

CULVERT LONG SECTION

DATE: MAY 2022

SCALE: N/A

COORDINATE SYSTEM:

SURVEYED: \_\_\_\_\_

DRAWN: \_\_\_\_\_

CHECKED: \_\_\_\_\_

APPROVED ON BEHALF OF INFRA PROJECTS AFRICA:

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

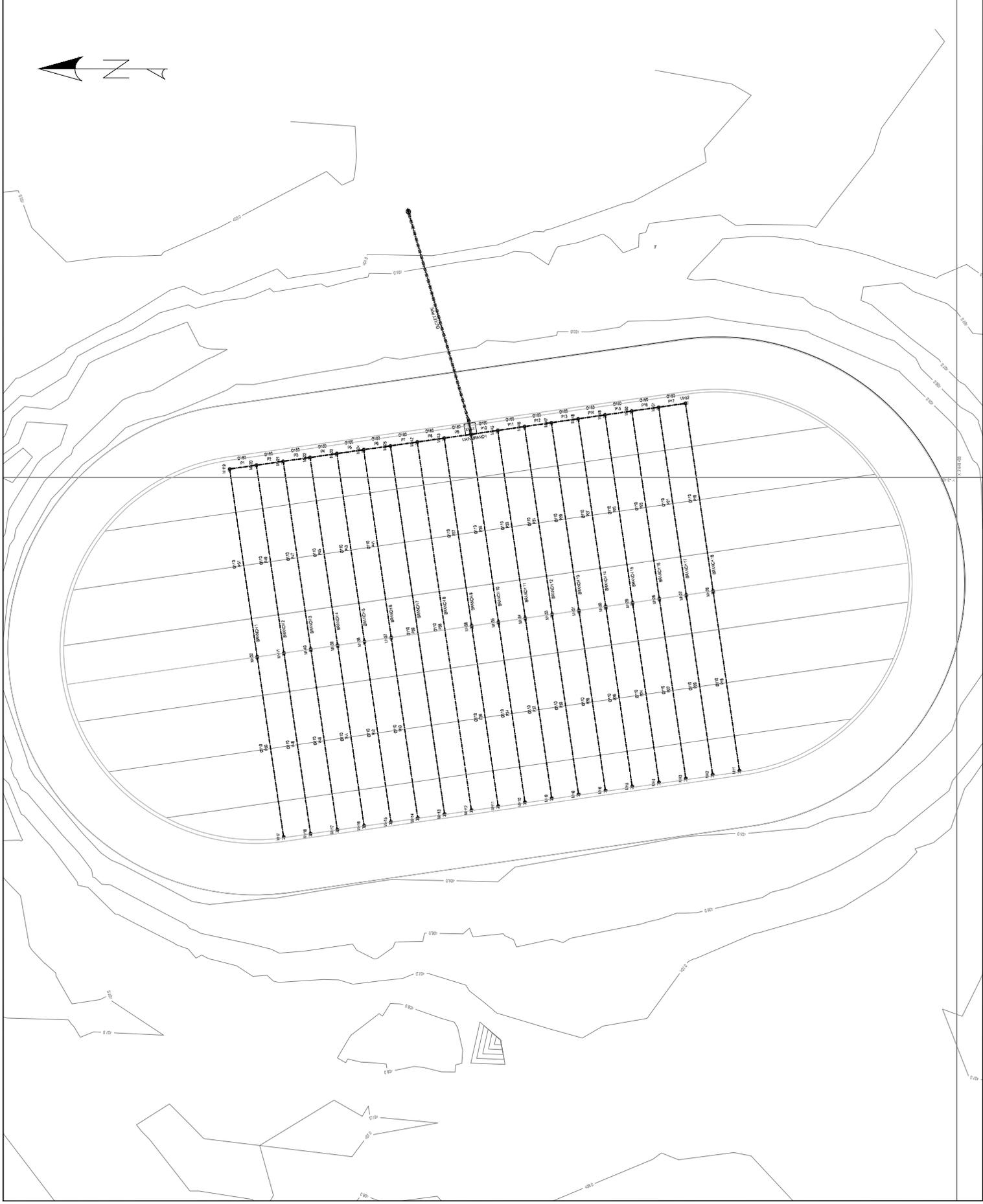
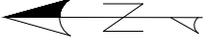
VERSION: 01

APPROVED:

CLIENT: \_\_\_\_\_ DATE: \_\_\_\_\_

CLIENT: \_\_\_\_\_

DRAWING NO.: \_\_\_\_\_



FOR TENDER PURPOSES ONLY

CERTIFIED AS VALID FOR CONTRACT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION AMENDMENTS		
NO.	DATE	APPROVED BY

CLIENT



BA-PHALABORWA  
LOCAL MUNICIPALITY  
PRIVATE BAG X 01020  
PHALABORWA  
1200  
TEL: 016 795 6300  
FAX: 016 781 0728

CONSULTANT



INFRA PROJECTS AFRICA  
SUIT NO.2 SUID PARK  
1285 SUID STREET  
DORSETT  
1601  
TEL: 016 284 2640

PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

PITCH DRAINAGE LAYOUT

DATE: FEBRUARY 2021

COORDINATE SYSTEM	
DESIGNED	
DRAWN	
CHECKED	
APPROVED FOR BENEFIT OF INFRA-PROJECTS AFRICA	

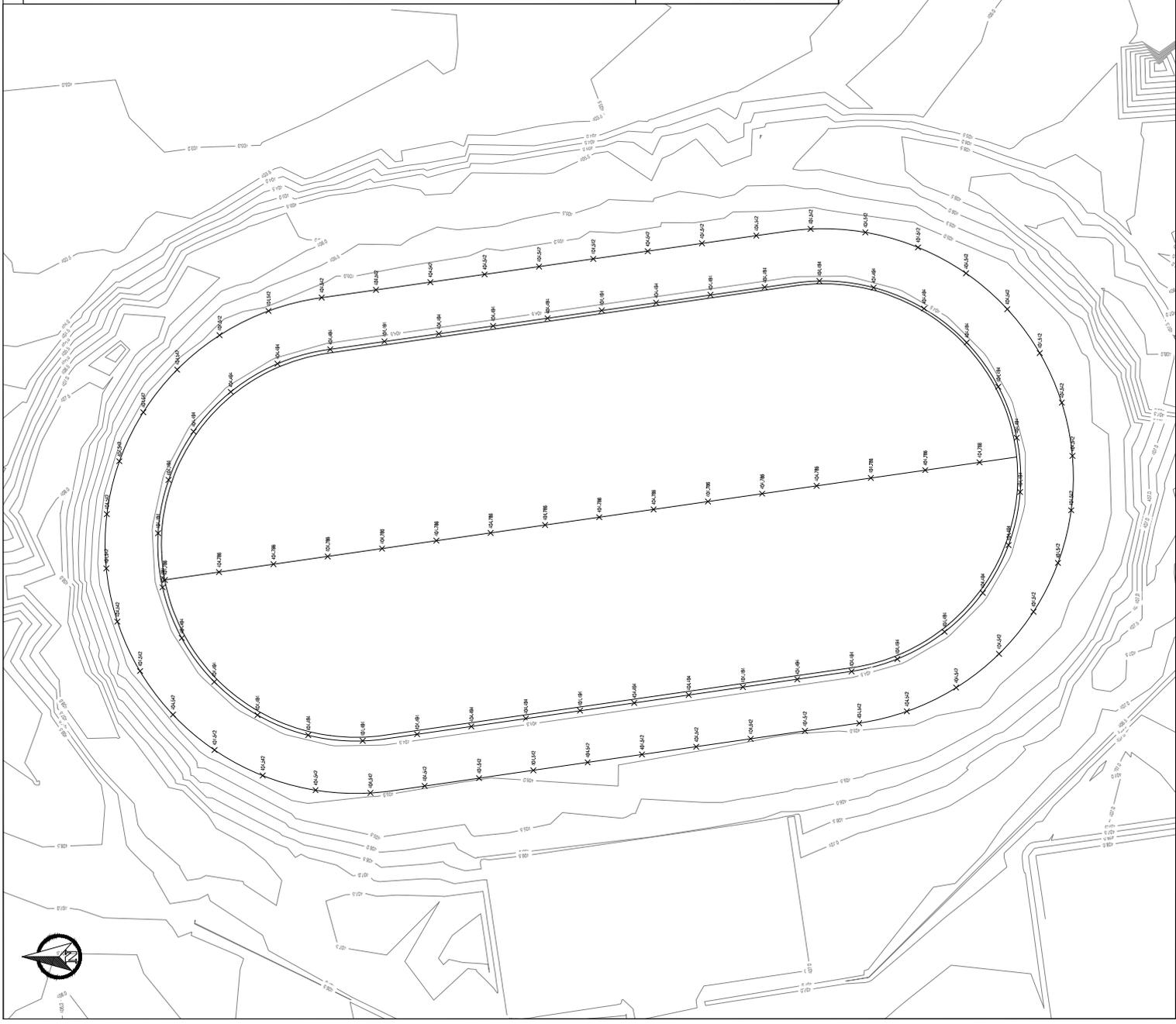
ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING NO.: IP/AB/PL/MS/FL/DR/01 REVISION: 00

APPROVED: \_\_\_\_\_

CLIENT: \_\_\_\_\_ DATE: \_\_\_\_\_

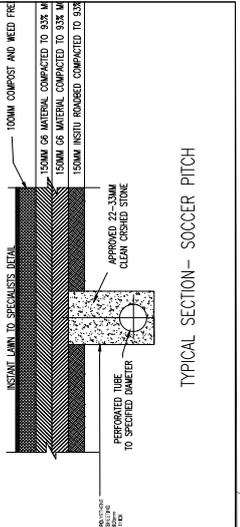
DRAWING NO.: \_\_\_\_\_



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105	100.000	100.000	100.000
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114	100.000	100.000	100.000
115	100.000	100.000	100.000

POINT	Y	X	LEVEL
100	100.000	100.000	100.000
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102	100.000	100.000	100.000
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113	100.000	100.000	100.000
114	100.000	100.000	100.000
115	100.000	100.000	100.000

POINT	Y	X	LEVEL
100	100.000	100.000	100.000
101	100.000	100.000	100.000
102	100.000	100.000	100.000
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114	100.000	100.000	100.000
115	100.000	100.000	100.000



FOR TENDER PURPOSES ONLY

CERTIFIED AS BUILDER CONTRACT:

NO.	DATE	ISSUED BY	AUTHORISED BY

CLIENT: BA-PHALABORWA LOCAL MUNICIPALITY  
 LOCAL MUNICIPALITY  
 PHALABORWA  
 1380  
 TEL: 015 786 6300  
 FAX: 015 781 0728

CONSULTANT: INFRA PROJECTS AFRICA  
 10000 PLOKOWANE STREET  
 PLOKOWANE  
 0699  
 TEL: 015 291 2040

PROJECT TITLE: REFURBISHMENT OF NAMAKALE STADIUM

DRAWING TITLE: PITCH AND TRACK SETTING OUT

DATE: MARCH 2021

APPROVED: IPABPLMINSPTL01/REV1  
 DATE: 01

CLIENT: DRAWING NO. DATE: CLIENT: DRAWING NO.

**FOR TENDER PURPOSES ONLY**

CERTIFIED AS VALID FOR CONTRACT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

**VERSION/AMENDMENTS**

NO.	DATE	CERTIFIED BY	APPROVED BY

**CLIENT**  
 RA-PHALABORWA LOCAL MUNICIPALITY  
 PRIVATE BAG X 01020  
 PHALABORWA 1291  
 TEL. 016 785 5200  
 FAX. 016 781 0728

**CONSULTANT**  
**Infra Projects Africa**  
 INFRA PROJECTS AFRICA  
 SUIT NO2 SUID PARK  
 1285 SUID STREET  
 BLOEMFONTEIN  
 TEL. 016 281 2340

**PROJECT TITLE**  
 REFURBISHMENT OF NAMAKGALE STADIUM

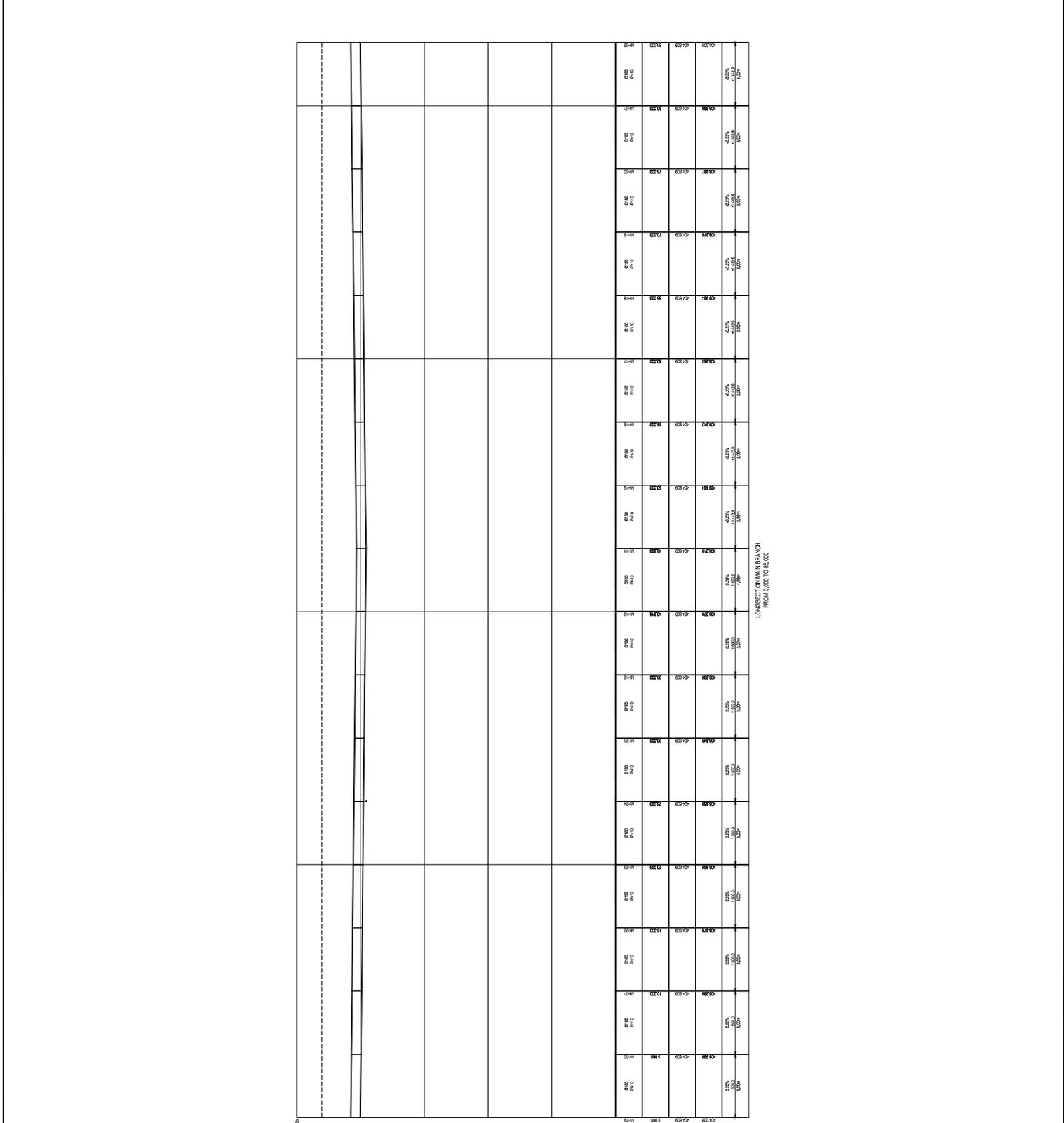
**DRAWING TITLE**  
 PITCH DRAINAGE MAIN BRANCH LONG SECTION

**DATE**  
 FEBRUARY 2021

**COORDINATE SYSTEM**  
 DRAWN: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

**ENGINEER** \_\_\_\_\_ **DATE** \_\_\_\_\_ **REVISION** \_\_\_\_\_  
**DRAWING NO.** IP/EP/PLM/SP/LS/DR03 **REVISION** 00

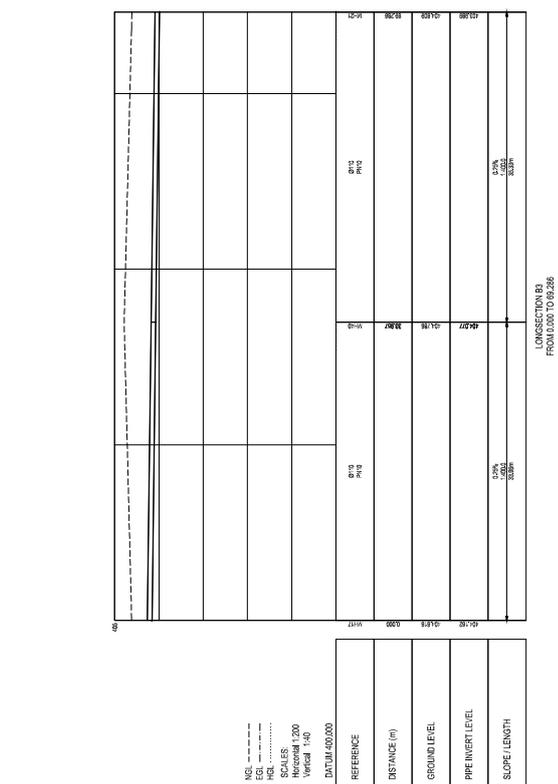
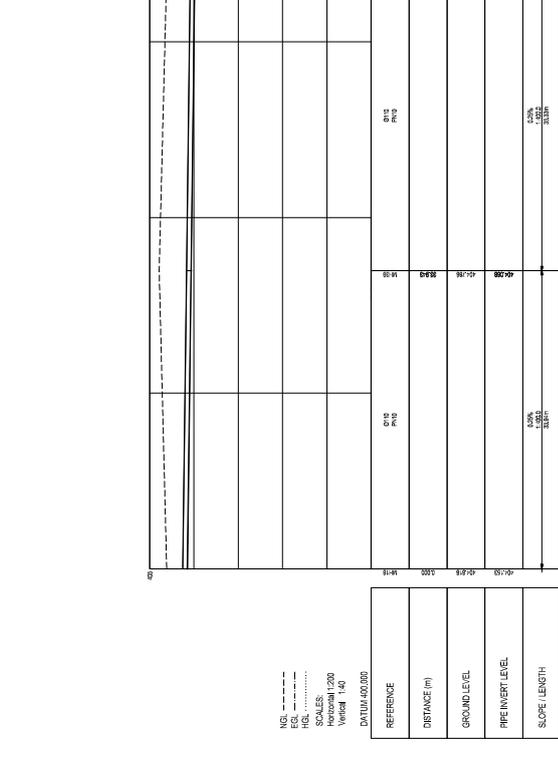
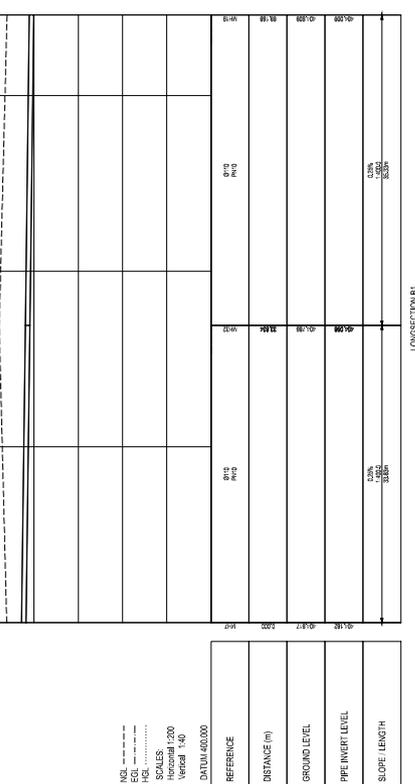
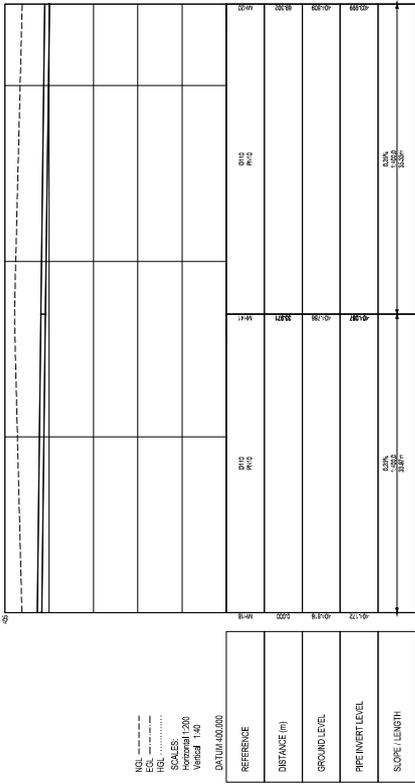
**APPROVED:** \_\_\_\_\_  
**CLIENT:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
**DESIGNED BY:** \_\_\_\_\_ **DRAWING NO.:** \_\_\_\_\_



NGL: - - - - -  
 HGL: .....  
 SCALES: Horizontal 1:200  
 Vertical 1:40  
 DATUM: AD2000

**REFERENCE**  
**DISTANCE (m)**  
**GROUND LEVEL**  
**PIPE INVERT LEVEL**  
**SLOPE (LENGTH)**

LOWSECTION MAIN BRANCH  
 FROM 0+000 TO 80+000



**FOR TENDER PURPOSES ONLY**

CERTIFIED AS VALID FOR CONTRACT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

**VERSION AMENDMENTS**

NO.	DATE	CERTIFIED BY	APPROVED BY

CLIENT: **RAPHAELABEWA LOCAL MUNICIPALITY PRIVATE BAG X 01020 PHALABORWA 029 0145 7105 5100 FAX: 015 781 0728**

CONSULTANT: **Infra Projects Africa**  
 INFRA PROJECTS AFRICA  
 SUIT NO2 SUID PARK  
 1285 SUID STREET  
 1682 BLOEMFONTEIN  
 TEL: 016 291 2340

PROJECT TITLE: **REFURBISHMENT OF NAMAKGALE STADIUM**

DRAWING TITLE: **PITCH DRAINAGE LONG SECTIONS FOR BRANCH 1-4**

DATE: **FEBRUARY 2021**

COORDINATE SYSTEM: **AFRICAN SOUTH AFRICAN**

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

DESIGNED: \_\_\_\_\_ CHECKED: \_\_\_\_\_

APPROVED: \_\_\_\_\_

PROJECT NO.: **IP/PLM/INS/PLS/D/RS/05** REVISION: **00**

CUSTOMER: \_\_\_\_\_ DATE: \_\_\_\_\_

CLIENT: \_\_\_\_\_

DRAWING NO.: \_\_\_\_\_

FOR TENDER PURPOSES ONLY

CERTIFIED AS VALID FOR CONTRACT:

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION AMENDMENTS

NO.	DATE	CONFERRED BY	APPROVED BY

CLIENT

RALPHABORWA  
LOCAL MUNICIPALITY  
PRIVATE BAG X 01020  
PHALABORWA  
1289  
TEL: 016 789 5200  
FAX: 016 781 0728

CONSULTANT

**Infra Projects Africa**  
INFRA PROJECTS AFRICA  
SUIT NO 2 SUID PARK  
1285 SUID STREET  
PHALABORWA  
TEL: 016 291 2340

PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

PITCH DRAINAGE LONG SECTIONS FOR BRANCH C-B

DATE

FEBRUARY 2021

COORDINATE SYSTEM

DATE

FEBRUARY 2021

DESIGNED

CHECKED

APPROVED

ENGINEER

DATE

REVISION

00

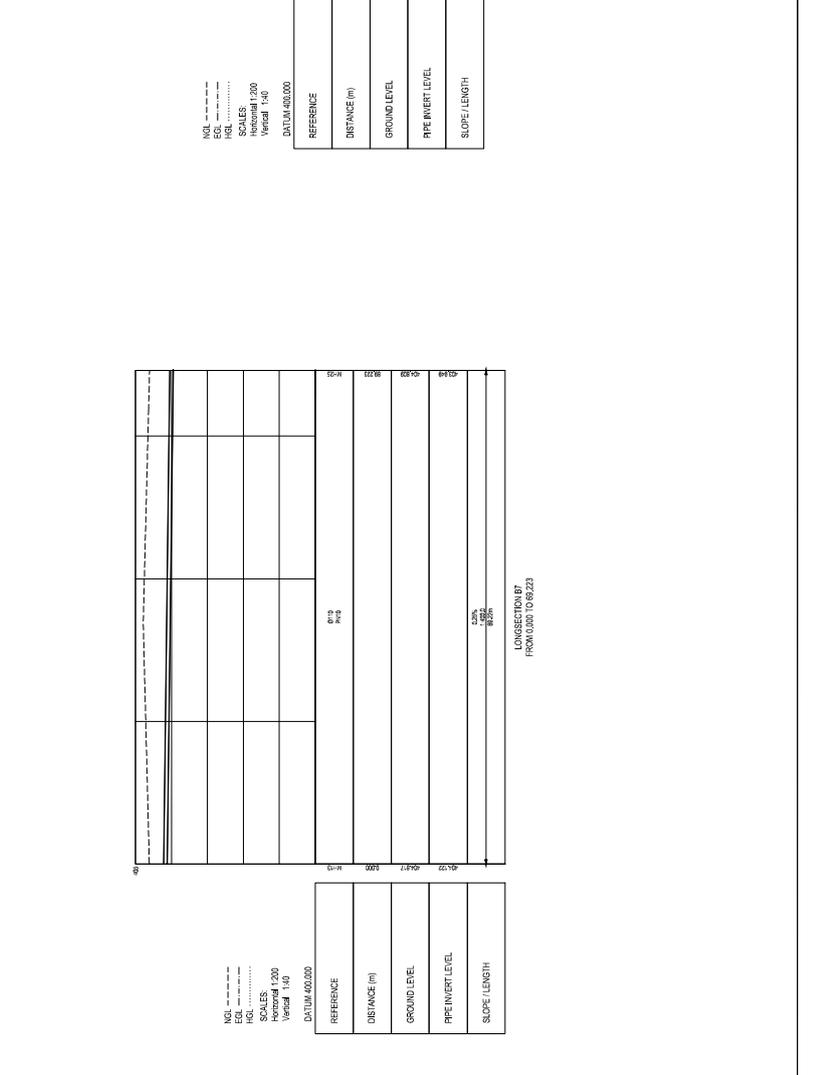
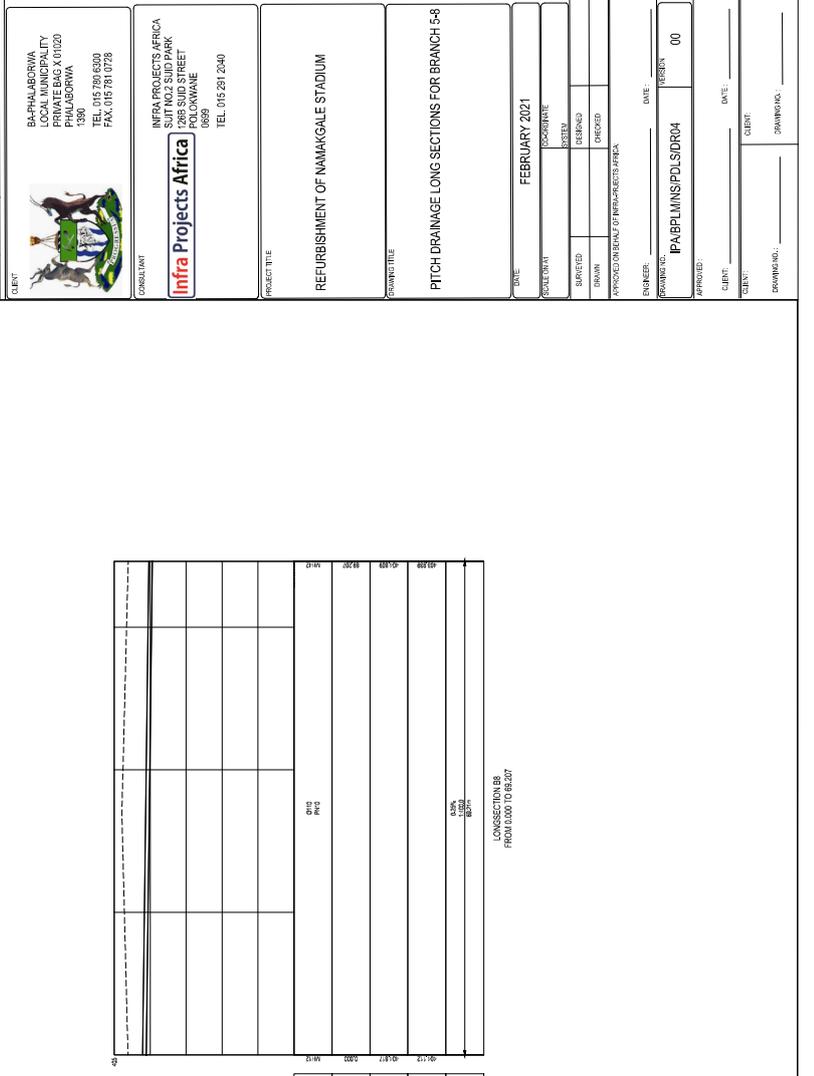
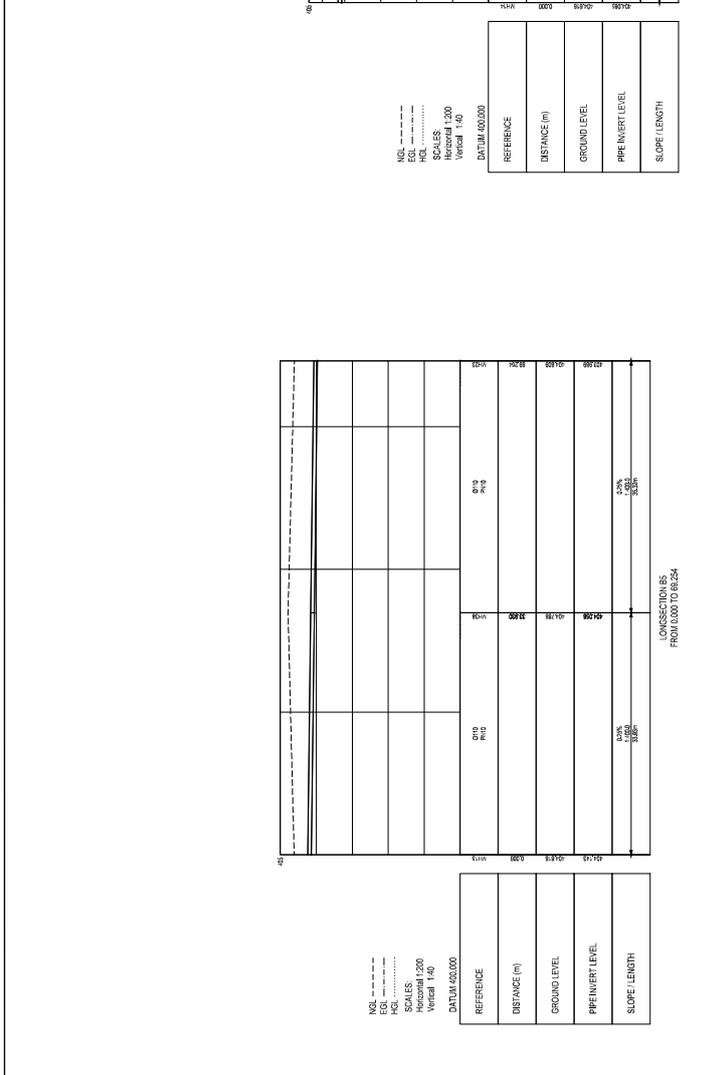
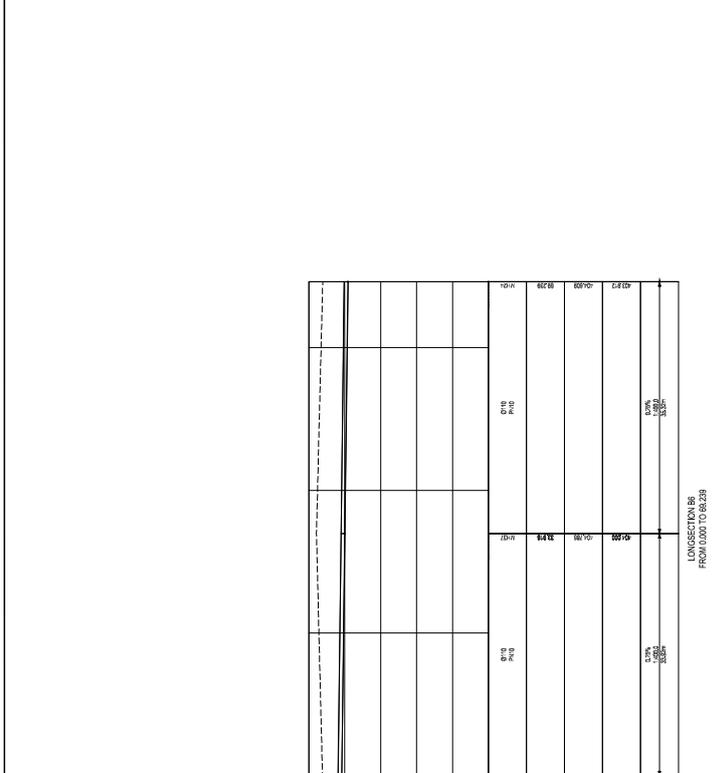
IP/PEL/MS/P/LS/DR04

CLIENT

DATE

CHECKED

DRAWING NO.

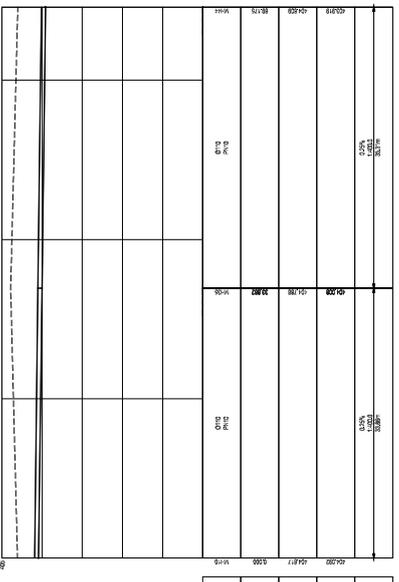


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HGL .....  
SCALES:  
Horizontal 1:200  
Vertical 1:40  
DATUM 400.000

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HGL .....  
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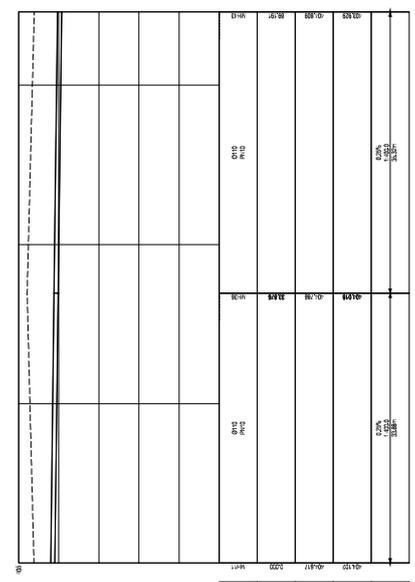
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Horizontal 1:200  
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DATUM 400.000



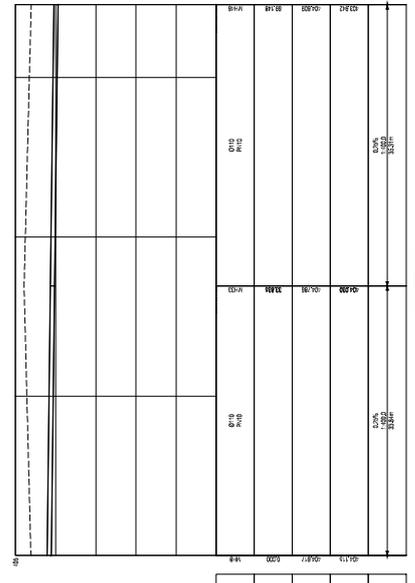
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Vertical 1:40  
DATUM 400.000

REFERENCE
DISTANCE (m)
GROUND LEVEL
PIPE INVERT LEVEL
SLOPE / LENGTH



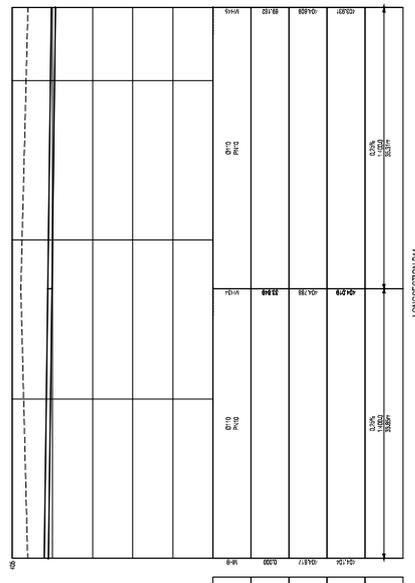
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REFERENCE
DISTANCE (m)
GROUND LEVEL
PIPE INVERT LEVEL
SLOPE / LENGTH



NGL -----  
EGL -----  
SCALE: Horizontal 1:200  
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REFERENCE
DISTANCE (m)
GROUND LEVEL
PIPE INVERT LEVEL
SLOPE / LENGTH



NGL -----  
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SCALE: Horizontal 1:200  
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DATUM 400.000

REFERENCE
DISTANCE (m)
GROUND LEVEL
PIPE INVERT LEVEL
SLOPE / LENGTH

FOR TENDER PURPOSES ONLY

CERTIFIED AS VALID FOR CONTRACT: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION AMENDMENTS

NO.	DATE	DESCRIPTION	APPROVED BY:



CLIENT: RA-PHALABORWA LOCAL MUNICIPALITY  
PRIVATE BAG X 01020 PHALABORWA 1291  
TEL: 016 291 6200 FAX: 016 291 0278

CONSULTANT: INFRA PROJECTS AFRICA  
SUIT NO.2 SUID PARK 1295 SUID STREET PHALABORWA  
TEL: 016 291 0240

PROJECT TITLE: REFURBISHMENT OF NAMAKSALE STADIUM

DRAWING TITLE: PITCH DRAINAGE LONG SECTIONS FOR BRANCH 9-12

DATE: FEBRUARY 2021

COORDINATE SYSTEM: \_\_\_\_\_  
DESIGNED: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING NO.: IPABPLMNSFLPDR06  
REVISION: 00

CLIENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
DRAWING NO.: \_\_\_\_\_

**FOR TENDER PURPOSES ONLY**

CERTIFIED AS VALID FOR CONTRACT: \_\_\_\_\_ ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

**VERSION AMENDMENTS**

NO.	DATE	CERTIFIED BY	APPROVED BY

CLIENT: **R.A. PHALABORWA LOCAL MUNICIPALITY**  
 PRIVATE BAG X 01020  
 PHALABORWA 128  
 TEL: 015 785 5200  
 FAX: 015 781 0728

CONSULTANT: **Infra Projects Africa**  
 INFRA PROJECTS AFRICA  
 SUIT NO.2 SUID PARK  
 1285 SUID STREET  
 PHALABORWA  
 TEL: 015 291 2340

PROJECT TITLE: **REFURBISHMENT OF NAMAKGALE STADIUM**

DRAWING TITLE: **PITCH DRAINAGE LONG SECTION FOR BRANCH 13-16**

DATE: **FEBRUARY 2021**

COORDINATE SYSTEM: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_

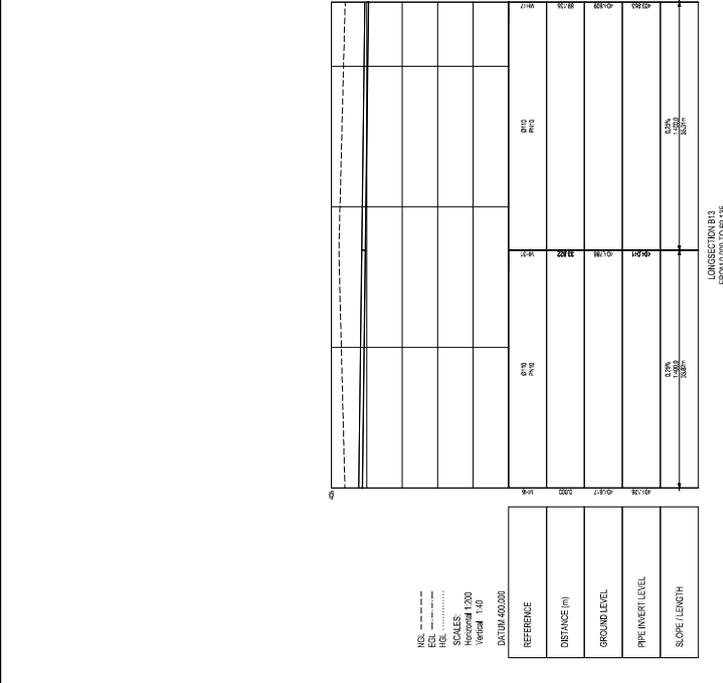
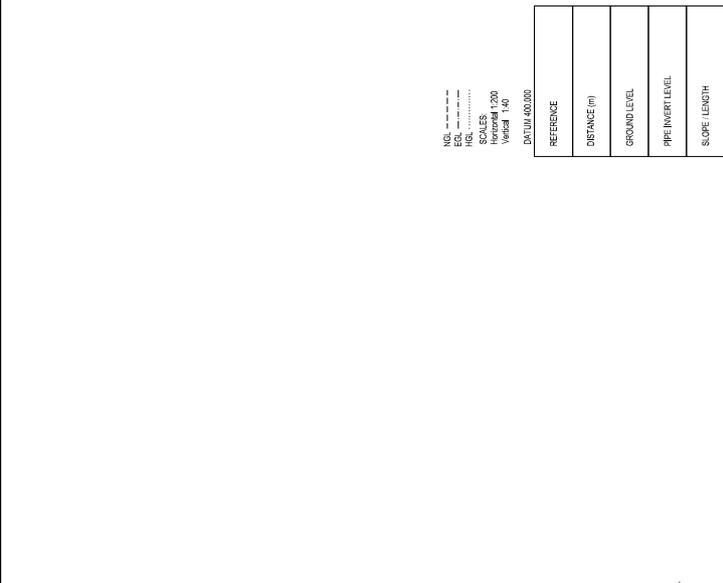
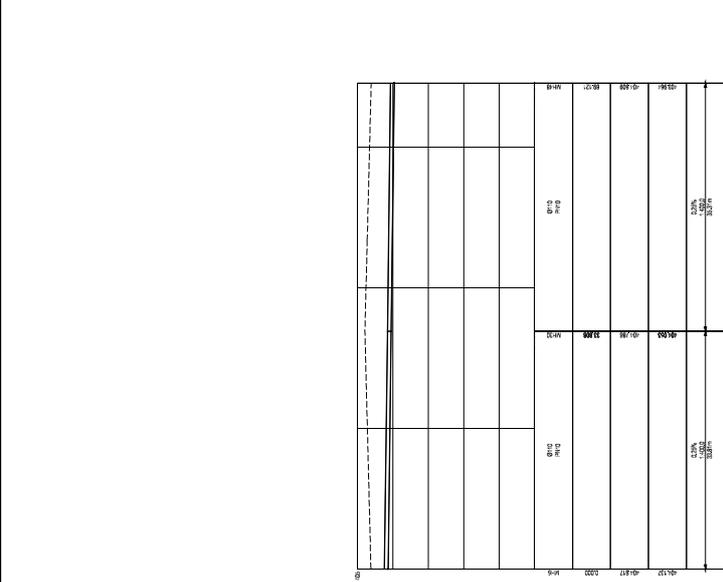
APPROVED DIRECTOR OF INFRA-PROJECTS AFRICA: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT NO.: **IPA/BPL/MNS/FP/DR07** REVISION: **00**

APPROVED: \_\_\_\_\_

CHECKED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CLIENT: \_\_\_\_\_  
 DRAWING NO.: \_\_\_\_\_



CLIENT: **R.A. PHALABORWA LOCAL MUNICIPALITY**  
 PRIVATE BAG X 01020  
 PHALABORWA 128  
 TEL: 015 785 5200  
 FAX: 015 781 0728

CONSULTANT: **Infra Projects Africa**  
 INFRA PROJECTS AFRICA  
 SUIT NO.2 SUID PARK  
 1285 SUID STREET  
 PHALABORWA  
 TEL: 015 291 2340

PROJECT TITLE: **REFURBISHMENT OF NAMAKGALE STADIUM**

DRAWING TITLE: **PITCH DRAINAGE LONG SECTION FOR BRANCH 13-16**

DATE: **FEBRUARY 2021**

COORDINATE SYSTEM: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_

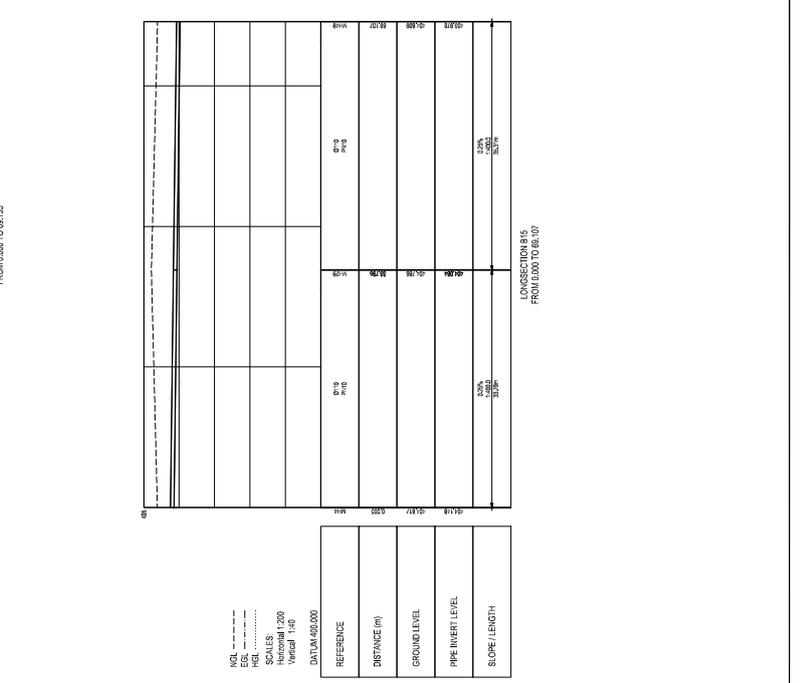
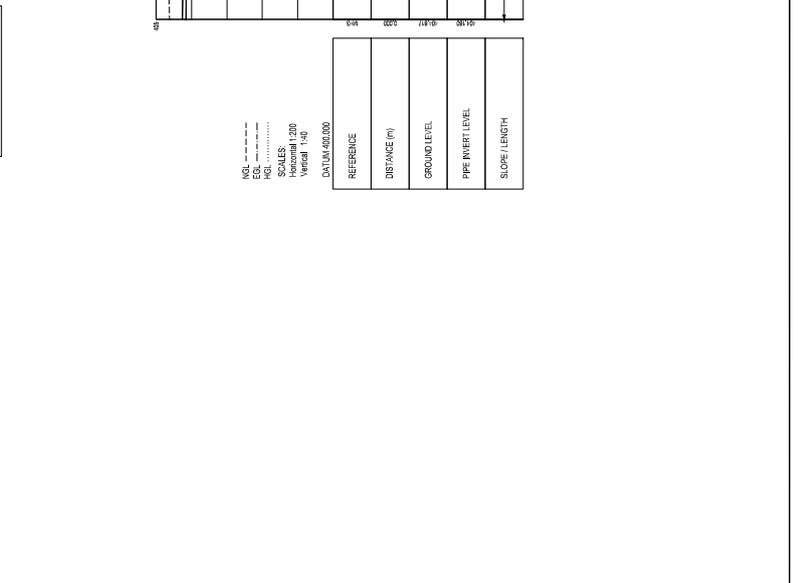
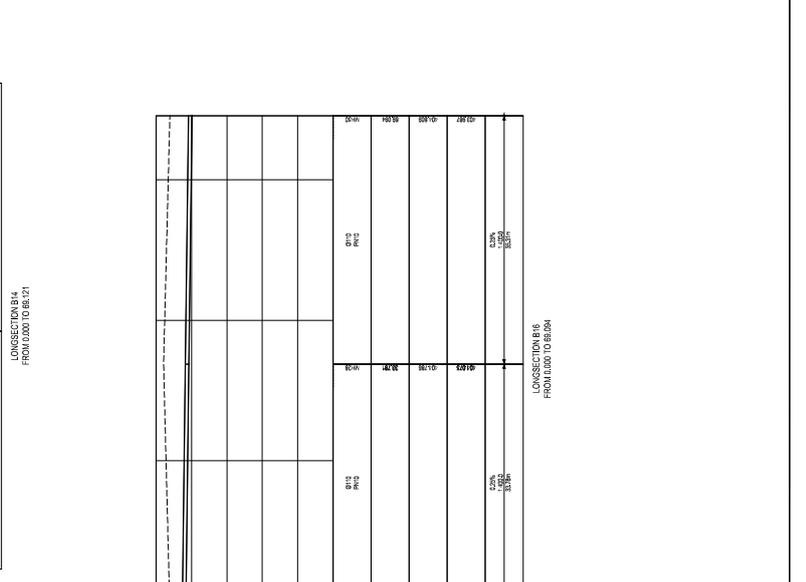
APPROVED DIRECTOR OF INFRA-PROJECTS AFRICA: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT NO.: **IPA/BPL/MNS/FP/DR07** REVISION: **00**

APPROVED: \_\_\_\_\_

CHECKED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CLIENT: \_\_\_\_\_  
 DRAWING NO.: \_\_\_\_\_







### STRUCTURE LIST-Pitch Sub Drainage

STRUCTURE NAME	Y	X	RIM ELEVATION	RIM TO SUMP DEPTH
MH1	-3.345,453	2.648.359,917	404,617	0,435
MH2	-3.344,719	2.648.354,971	404,617	0,446
MH3	-3.343,985	2.648.350,025	404,617	0,457
MH4	-3.343,251	2.648.345,079	404,617	0,469
MH5	-3.342,518	2.648.340,134	404,617	0,480
MH6	-3.341,784	2.648.335,188	404,617	0,491
MH7	-3.333,126	2.648.275,516	404,617	0,435
MH8	-3.341,050	2.648.330,242	404,617	0,502
MH9	-3.340,316	2.648.325,296	404,617	0,513
MH10	-3.339,582	2.648.320,350	404,617	0,524
MH11	-3.338,848	2.648.315,404	404,617	0,514
MH12	-3.338,115	2.648.310,458	404,617	0,504
MH13	-3.337,381	2.648.305,512	404,617	0,494
MH14	-3.336,647	2.648.300,567	404,616	0,532
MH15	-3.335,913	2.648.295,621	404,616	0,474
MH16	-3.335,179	2.648.290,675	404,616	0,464
MH17	-3.334,445	2.648.285,729	404,616	0,454
MH18	-3.333,712	2.648.280,783	404,616	0,444
MH19	-3.401,572	2.648.285,849	404,609	0,600
MH20	-3.402,290	2.648.270,798	404,609	0,610

### STRUCTURE LIST-Pitch Sub Drainage

STRUCTURE NAME	Y	X	RIM ELEVATION	RIM TO SUMP DEPTH
MH41	-3.387,328	2.648.275,888	404,786	0,699
MH42	-3.406,599	2.648.300,487	404,609	0,670
MH43	-3.407,320	2.648.305,451	404,609	0,680
MH44	-3.408,036	2.648.310,383	404,609	0,690
MH45	-3.408,756	2.648.315,331	404,609	0,679
MH46	-3.409,476	2.648.320,279	404,609	0,668
MH47	-3.410,197	2.648.325,226	404,609	0,656
MH48	-3.410,917	2.648.330,174	404,609	0,645
MH49	-3.411,638	2.648.335,122	404,609	0,634
MH50	-3.412,358	2.648.340,070	404,609	0,623
MH51	-3.413,079	2.648.345,018	404,609	0,611
MH52	-3.413,799	2.648.349,966	404,609	0,600
MH53	-3.410,470	2.648.309,978	404,233	0,326
MH54	-3.449,487	2.648.298,837	404,031	0,327

### STRUCTURE LIST-Pitch Sub Drainage

STRUCTURE NAME	Y	X	RIM ELEVATION	RIM TO SUMP DEPTH
MH21	-3.403,009	2.648.275,746	404,609	0,620
MH22	-3.403,727	2.648.280,694	404,609	0,630
MH23	-3.404,445	2.648.285,642	404,609	0,640
MH24	-3.405,163	2.648.290,590	404,609	0,638
MH25	-3.405,881	2.648.295,538	404,609	0,660
MH26	-3.378,655	2.648.355,054	404,786	0,688
MH27	-3.378,134	2.648.350,106	404,786	0,700
MH28	-3.377,414	2.648.345,158	404,786	0,711
MH29	-3.376,693	2.648.340,210	404,786	0,722
MH30	-3.375,973	2.648.335,262	404,786	0,733
MH31	-3.375,252	2.648.330,314	404,786	0,745
MH32	-3.366,607	2.648.270,941	404,786	0,688
MH33	-3.374,532	2.648.325,387	404,786	0,756
MH34	-3.373,812	2.648.320,419	404,786	0,767
MH35	-3.373,091	2.648.315,471	404,786	0,778
MH36	-3.372,371	2.648.310,523	404,786	0,769
MH37	-3.370,209	2.648.295,680	404,786	0,766
MH38	-3.369,489	2.648.290,732	404,786	0,728
MH39	-3.368,769	2.648.285,784	404,786	0,718
MH40	-3.368,048	2.648.280,836	404,786	0,709

**FOR TENDER PURPOSES ONLY**

CERTIFIED AS BUILT FOR CONTRACT: \_\_\_\_\_ DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION AMENDMENTS

NO.	DATE	COMPILED BY	APPROVED BY



CONTRACT NO. \_\_\_\_\_

CLIENT: \_\_\_\_\_

DRAWING NO.: \_\_\_\_\_

DATE: \_\_\_\_\_

PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

PITCH DRAINAGE SETTING OUT DETAILS

DATE: FEBRUARY 2021

COORDINATE SYSTEM

DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT NO.: IPABPLMNSFLPDR02

REVISION: 00

APPROVED: \_\_\_\_\_

CHECKED: \_\_\_\_\_

DRAWN: \_\_\_\_\_

DATE: \_\_\_\_\_

CLIENT: \_\_\_\_\_

DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_





**STRUCTURE LIST-Nama Sewer**

STRUCTURE NAME	Y	X
MH-1	-2.646 264,956	3 211,397
MH-2	-2.646 421,161	3 302,344
MH-3	-2.646 302,751	3 284,351
MH-4	-2.646 235,604	3 274,216
Outfall point	-2.646 200,284	3 326,827

FOR TENDER PURPOSES ONLY

CERTIFIED AS BULKY CONTRACT

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION/ AMENDMENTS

NO.	DATE	CERTIFIED BY	AUTHORIZED BY

CURIE



BAPHALABORWA  
LOCAL MUNICIPALITY  
PRIVATE BAG X 01020  
1936 BAPHALABORWA  
TEL: 015 280 6300  
FAX: 015 281 0728

CONSULTANT



INFRA PROJECTS AFRICA  
SUIT NO2 SUID PARK  
286 SUID STREET  
1015 SANDHURST  
0699  
TEL: 015 251 2040

PROJECT TITLE

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

SEWER RETICULATION LAYOUT

DATE

MAY 2022

APPROVED FOR SUBMITTAL

DESIGNED	CHECKED

APPROVED FOR ISSUE

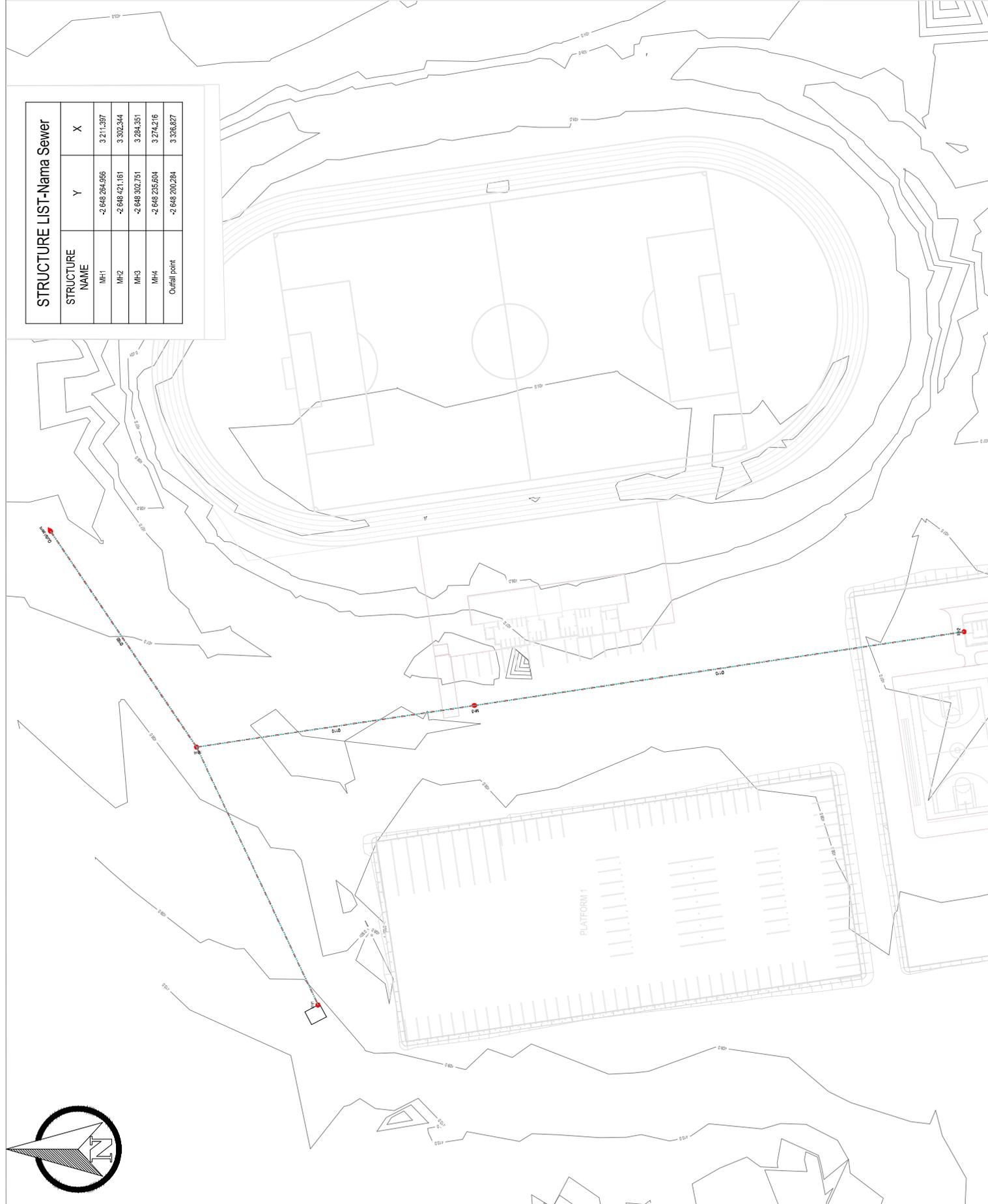
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ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING NO: IPABPLMINS/SPDR2/REVZ 01

CLIENT: \_\_\_\_\_

DRAWING NO.: \_\_\_\_\_





NO.	DATE	CERTIFIED BY	AUTHORIZED BY

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
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VERSION/ AMENDMENTS

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NO.	DATE	CERTIFIED BY	AUTHORIZED BY

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CERTIFIED AS BUILT CONTRACT

VERSION/ AMENDMENTS

CLIENT: \_\_\_\_\_  
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 DRAWING DATE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_  
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FOR TENDER PURPOSES ONLY

CERTIFIED AS BUILT CONTRACT

VERSION/ AMENDMENTS

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 APPROVED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_



INFRA PROJECTS AFRICA  
 SUIT 102 SUID PARK  
 288 SUID STREET  
 SANDHURST  
 0699  
 TEL: 015 251 2040  
 FAX: 015 251 2040

PROJECT TITLE: \_\_\_\_\_

REFURBISHMENT OF NANIKALE STADIUM

DRAWING TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
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 DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

BAPHA LABORWA  
 LOCAL MUNICIPALITY  
 PRIVATE BAG X 01020  
 BAPHA LABORWA  
 1948  
 TEL: 015 280 6300  
 FAX: 015 281 0728

INFRA PROJECTS AFRICA  
 SUIT 102 SUID PARK  
 288 SUID STREET  
 SANDHURST  
 0699  
 TEL: 015 251 2040

PROJECT TITLE: \_\_\_\_\_

REFURBISHMENT OF NANIKALE STADIUM

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INFRA PROJECTS AFRICA  
 SUIT 102 SUID PARK  
 288 SUID STREET  
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 0699  
 TEL: 015 251 2040

PROJECT TITLE: \_\_\_\_\_

REFURBISHMENT OF NANIKALE STADIUM

DRAWING TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_  
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 DATE: \_\_\_\_\_

BAPHA LABORWA  
 LOCAL MUNICIPALITY  
 PRIVATE BAG X 01020  
 BAPHA LABORWA  
 1948  
 TEL: 015 280 6300  
 FAX: 015 281 0728

INFRA PROJECTS AFRICA  
 SUIT 102 SUID PARK  
 288 SUID STREET  
 SANDHURST  
 0699  
 TEL: 015 251 2040

PROJECT TITLE: \_\_\_\_\_

REFURBISHMENT OF NANIKALE STADIUM

DRAWING TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_  
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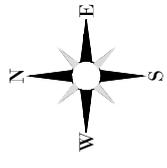






**LEGEND**

- CLEAR VU FENCE
- DIAMOND WIRE MESH FENCE



FOR TENDER PURPOSES ONLY

CERTIFIED AS AUTHOR CONTRACT:

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION/AMENDMENTS

NO. \_\_\_\_\_ DATE: \_\_\_\_\_ AUTHORIZED BY: \_\_\_\_\_

CURRY

BA-PHALABORWA  
LOCAL MUNICIPALITY  
1000000000  
PHALABORWA  
1380  
TEL: 015 790 6300  
FAX: 015 781 0728

COMPLAINT

INFRA PROJECTS AFRICA  
1000000000  
258 SUID STREET  
PLOKOWANE  
0959  
TEL: 015 291 2040

**Infra Projects Africa**

PROJECT TITLE  
**REFURBISHMENT OF NAMAKGALE STADIUM**

DRAWING TITLE  
**PROPOSED FENCE LAYOUT AND SETTING OUT DETAILS**

DATE: FEBRUARY 2021

SCALE DRAW: COORDINATE SYSTEM

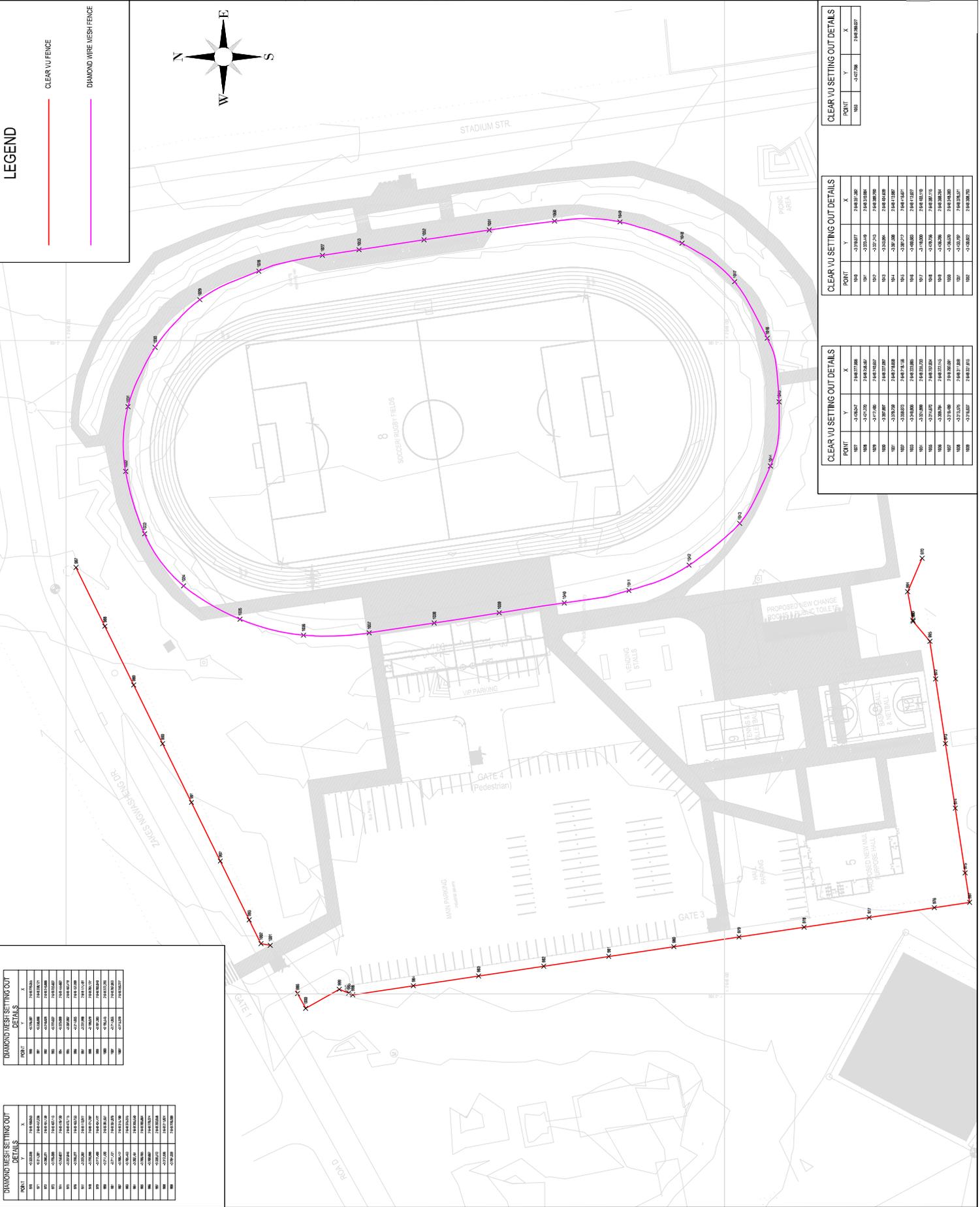
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APPROVED ON BEHALF OF: INFRA PROJECTS AFRICA

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING NO: IPABPLMINSFLPDR01

SCALE: 1:100



**DIAMOND WIRE SETTING OUT DETAILS**

POINT	Y	X
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002	-1738.00	7448.0000
003	-1738.00	7448.0000
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**DIAMOND WIRE SETTING OUT DETAILS**

POINT	Y	X
101	-1738.00	7448.0000
102	-1738.00	7448.0000
103	-1738.00	7448.0000
104	-1738.00	7448.0000
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122	-1738.00	7448.0000
123	-1738.00	7448.0000
124	-1738.00	7448.0000
125	-1738.00	7448.0000
126	-1738.00	7448.0000
127	-1738.00	7448.0000
128	-1738.00	7448.0000
129	-1738.00	7448.0000
130	-1738.00	7448.0000
131	-1738.00	7448.0000
132	-1738.00	7448.0000
133	-1738.00	7448.0000
134	-1738.00	7448.0000
135	-1738.00	7448.0000
136	-1738.00	7448.0000
137	-1738.00	7448.0000
138	-1738.00	7448.0000
139	-1738.00	7448.0000
140	-1738.00	7448.0000
141	-1738.00	7448.0000
142	-1738.00	7448.0000
143	-1738.00	7448.0000
144	-1738.00	7448.0000
145	-1738.00	7448.0000
146	-1738.00	7448.0000
147	-1738.00	7448.0000
148	-1738.00	7448.0000
149	-1738.00	7448.0000
150	-1738.00	7448.0000

**CLEAR VU SETTING OUT DETAILS**

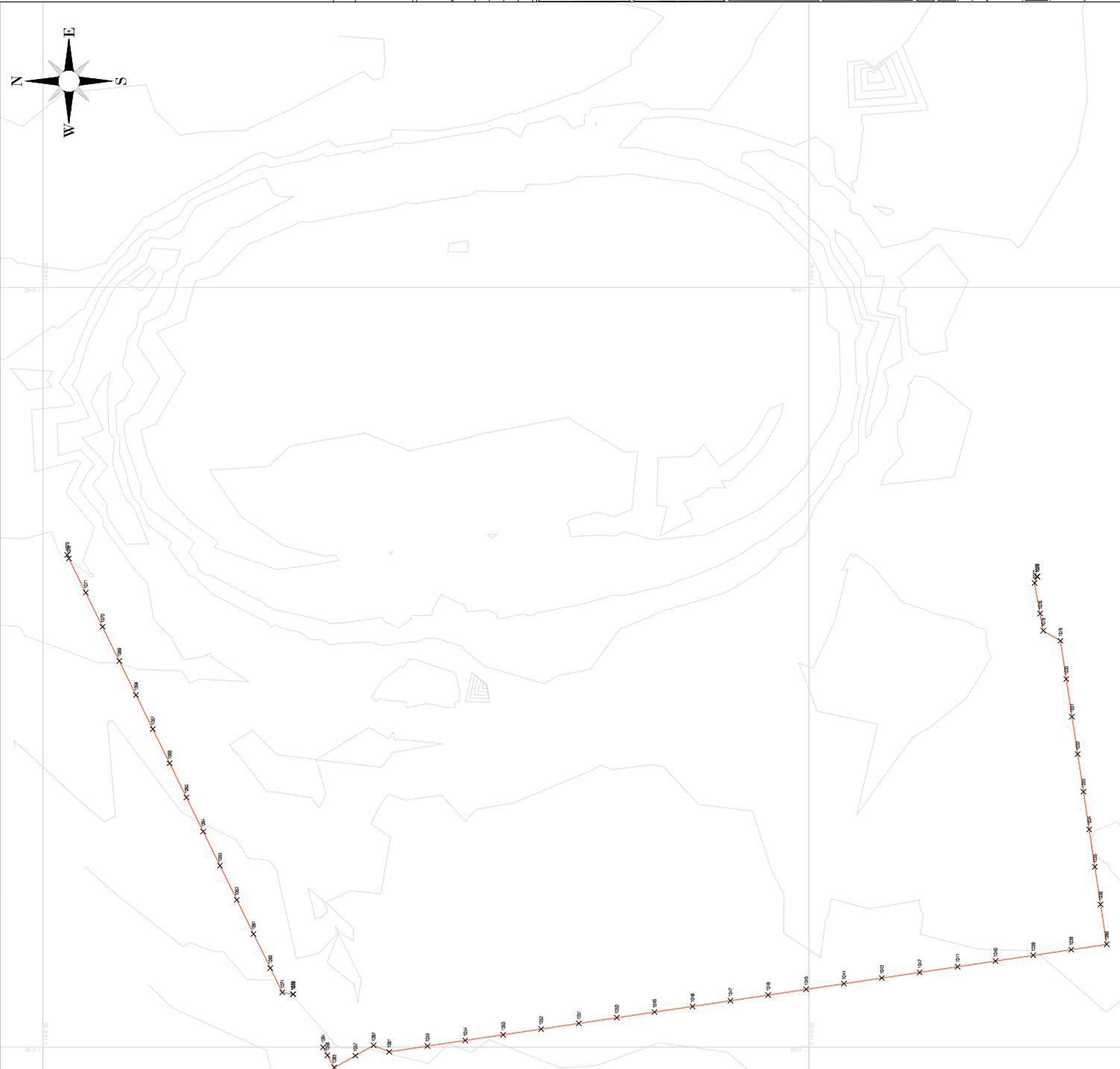
POINT	Y	X
151	-1738.00	7448.0000
152	-1738.00	7448.0000
153	-1738.00	7448.0000
154	-1738.00	7448.0000
155	-1738.00	7448.0000
156	-1738.00	7448.0000
157	-1738.00	7448.0000
158	-1738.00	7448.0000
159	-1738.00	7448.0000
160	-1738.00	7448.0000
161	-1738.00	7448.0000
162	-1738.00	7448.0000
163	-1738.00	7448.0000
164	-1738.00	7448.0000
165	-1738.00	7448.0000
166	-1738.00	7448.0000
167	-1738.00	7448.0000
168	-1738.00	7448.0000
169	-1738.00	7448.0000
170	-1738.00	7448.0000
171	-1738.00	7448.0000
172	-1738.00	7448.0000
173	-1738.00	7448.0000
174	-1738.00	7448.0000
175	-1738.00	7448.0000
176	-1738.00	7448.0000
177	-1738.00	7448.0000
178	-1738.00	7448.0000
179	-1738.00	7448.0000
180	-1738.00	7448.0000

**CLEAR VU SETTING OUT DETAILS**

POINT	Y	X
181	-1738.00	7448.0000
182	-1738.00	7448.0000
183	-1738.00	7448.0000
184	-1738.00	7448.0000
185	-1738.00	7448.0000
186	-1738.00	7448.0000
187	-1738.00	7448.0000
188	-1738.00	7448.0000
189	-1738.00	7448.0000
190	-1738.00	7448.0000
191	-1738.00	7448.0000
192	-1738.00	7448.0000
193	-1738.00	7448.0000
194	-1738.00	7448.0000
195	-1738.00	7448.0000
196	-1738.00	7448.0000
197	-1738.00	7448.0000
198	-1738.00	7448.0000
199	-1738.00	7448.0000
200	-1738.00	7448.0000

**CLEAR VU SETTING OUT DETAILS**

POINT	Y	X
201	-1738.00	7448.0000
202	-1738.00	7448.0000
203	-1738.00	7448.0000
204	-1738.00	7448.0000
205	-1738.00	7448.0000
206	-1738.00	7448.0000
207	-1738.00	7448.0000
208	-1738.00	7448.0000
209	-1738.00	7448.0000
210	-1738.00	7448.0000
211	-1738.00	7448.0000
212	-1738.00	7448.0000
213	-1738.00	7448.0000
214	-1738.00	7448.0000
215	-1738.00	7448.0000
216	-1738.00	7448.0000
217	-1738.00	7448.0000
218	-1738.00	7448.0000
219	-1738.00	7448.0000
220	-1738.00	7448.0000
221	-1738.00	7448.0000
222	-1738.00	7448.0000
223	-1738.00	7448.0000
224	-1738.00	7448.0000
225	-1738.00	7448.0000
226	-1738.00	7448.0000
227	-1738.00	7448.0000
228	-1738.00	7448.0000
229	-1738.00	7448.0000
230	-1738.00	7448.0000



FENCE SETTING OUT DETAILS		
POINT	Y	X
101	-2717.71	2748.08
102	-2717.71	2748.08
103	-2717.71	2748.08
104	-2717.71	2748.08
105	-2717.71	2748.08
106	-2717.71	2748.08
107	-2717.71	2748.08
108	-2717.71	2748.08
109	-2717.71	2748.08
110	-2717.71	2748.08
111	-2717.71	2748.08
112	-2717.71	2748.08
113	-2717.71	2748.08
114	-2717.71	2748.08
115	-2717.71	2748.08
116	-2717.71	2748.08
117	-2717.71	2748.08
118	-2717.71	2748.08
119	-2717.71	2748.08
120	-2717.71	2748.08
121	-2717.71	2748.08
122	-2717.71	2748.08
123	-2717.71	2748.08
124	-2717.71	2748.08
125	-2717.71	2748.08
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128	-2717.71	2748.08
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141	-2717.71	2748.08
142	-2717.71	2748.08
143	-2717.71	2748.08
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146	-2717.71	2748.08
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150	-2717.71	2748.08
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161	-2717.71	2748.08
162	-2717.71	2748.08
163	-2717.71	2748.08
164	-2717.71	2748.08
165	-2717.71	2748.08
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167	-2717.71	2748.08
168	-2717.71	2748.08
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179	-2717.71	2748.08
180	-2717.71	2748.08
181	-2717.71	2748.08
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183	-2717.71	2748.08
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189	-2717.71	2748.08
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191	-2717.71	2748.08
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200	-2717.71	2748.08
201	-2717.71	2748.08
202	-2717.71	2748.08
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209	-2717.71	2748.08
210	-2717.71	2748.08
211	-2717.71	2748.08
212	-2717.71	2748.08
213	-2717.71	2748.08
214	-2717.71	2748.08
215	-2717.71	2748.08
216	-2717.71	2748.08
217	-2717.71	2748.08
218	-2717.71	2748.08
219	-2717.71	2748.08
220	-2717.71	2748.08
221	-2717.71	2748.08
222	-2717.71	2748.08
223	-2717.71	2748.08
224	-2717.71	2748.08
225	-2717.71	2748.08
226	-2717.71	2748.08
227	-2717.71	2748.08
228	-2717.71	2748.08
229	-2717.71	2748.08
230	-2717.71	2748.08
231	-2717.71	2748.08
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243	-2717.71	2748.08
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255	-2717.71	2748.08
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257	-2717.71	2748.08
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265	-2717.71	2748.08
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267	-2717.71	2748.08
268	-2717.71	2748.08
269	-2717.71	2748.08
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271	-2717.71	2748.08
272	-2717.71	2748.08
273	-2717.71	2748.08
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281	-2717.71	2748.08
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283	-2717.71	2748.08
284	-2717.71	2748.08
285	-2717.71	2748.08
286	-2717.71	2748.08
287	-2717.71	2748.08
288	-2717.71	2748.08
289	-2717.71	2748.08
290	-2717.71	2748.08
291	-2717.71	2748.08
292	-2717.71	2748.08
293	-2717.71	2748.08
294	-2717.71	2748.08
295	-2717.71	2748.08
296	-2717.71	2748.08
297	-2717.71	2748.08
298	-2717.71	2748.08
299	-2717.71	2748.08
300	-2717.71	2748.08

**FOR TENDER PURPOSES ONLY**

CERTIFIED AS BUILT FOR CONTRACT: \_\_\_\_\_ DATE: \_\_\_\_\_

**VERSION AMENDMENTS**

NO.	DATE	GENERATED BY	APPROVED BY

CLIENT: **BE PHALABORWA LOCAL MUNICIPALITY**  
PRIVATE BAG X 01020  
PHALABORWA  
1390  
TEL: 015 260 2200  
FAX: 015 291 1720



CONSULTANT: **Infra Projects Africa**  
INFRA PROJECTS AFRICA  
SUITE NO 2 SUID PARK  
1208 SUID STREET  
POLOKwane  
TEL: 015 291 2240

PROJECT TITLE: **REFURBISHMENT OF NAINKANGALE STADIUM**

DRAWING TITLE: **PROPOSED FENCE LAYOUT AND SETTING OUT DETAILS**

DATE: **AUGUST 2021**

DESCRIPTION	DATE	BY	CHECKED
DRAWN			
CHECKED			
APPROVED			

APPROVED ON BEHALF OF INFRA PROJECTS AFRICA

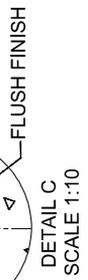
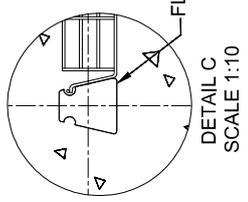
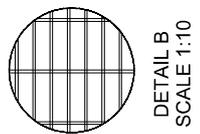
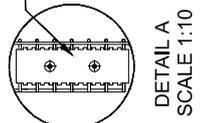
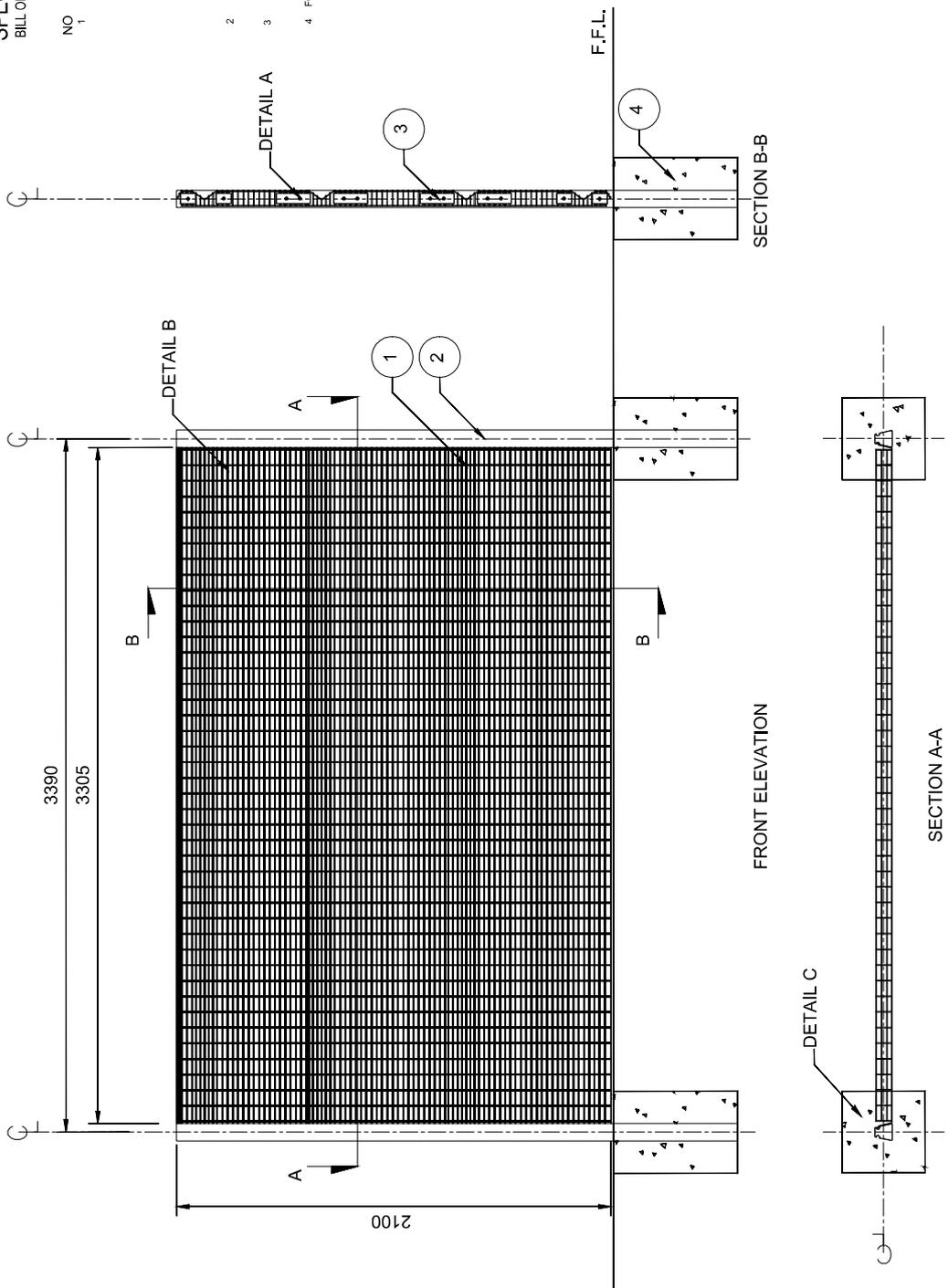
DRAWING NO.: **IPA-BPLM/SLP/DRU2** OF **01**

DATE: \_\_\_\_\_ CLIENT: \_\_\_\_\_

TITLE: \_\_\_\_\_ DRAWING NO.: \_\_\_\_\_

**SPECIFICATION  
BILL OF MATERIAL**

NO	ITEM	DESCRIPTION
1	PANEL	PARKLAND MESH PANELS: 3305mm WIDE x 2,100mm HIGH GALVANIZED WIRE. PANEL FORMATION: PANEL REINFORCED WITH 10mm DIA. STEEL BARS. 20mm DIA. SPACED BANDS (RIGHTLY) 2 x 75mm 70° FLANGES ALONG SIDES (INTERNAL FIXTURES - ANTI-VANDAL - ALLOWING FOR FLUSH POST AND PANEL FINISH, LINE WIRE SECURE CONNECTION MECHANISM) AND 2 x 50° FLANGES ALONG TOP AND TOE. (ARROW - STRAIGHT EDGES, INTEGRATED ANGLE). COATING: MESH GALVANIZED, THEN MARINE FUSION BOND COATED.
2	POST	(PATENTS AND DESIGN REGISTRATIONS APPLY) COCHRANE TAPER LOCKING POST, SEALED WITH WELDED STEEL CAP. COATING: GALVANIZED, THEN MARINE FUSION BOND COATED.
3	CLAMPS	SINGLE BOLT COMB CLAMPS. MARINE GALVANIZED. THEN MARINE FUSION BOND COATED.
4	FOUNDATION	FOUNDATION FOUNDATION SIZES TO BE CONFIRMED BY ENGINEER.



FOR TENDER PURPOSES ONLY

CERTIFIED AS A RESULT FOR CONTRACT: \_\_\_\_\_ NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_

VERSION/AMENDMENTS			
NO.	DATE	CERTIFIED BY	AUTHORIZED BY
1	22/03/2021	SM	FM

CLIENT:  BA-PFULBORWA LOCAL MUNICIPALITY PHALABORWA 07020 PHALABORWA 1380 TEL: 015 780 8300 FAX: 015 781 0728

CONSULTANT:  INFRA PROJECTS AFRICA SUITE 102 SUD PARK POLONWINE 06999 TEL: 015 291 2040

REFURBISHMENT OF NAMAKGALE STADIUM

DRAWING TITLE

GENERAL CLEARVU FENCING DETAILS

DATE: MARCH 2021

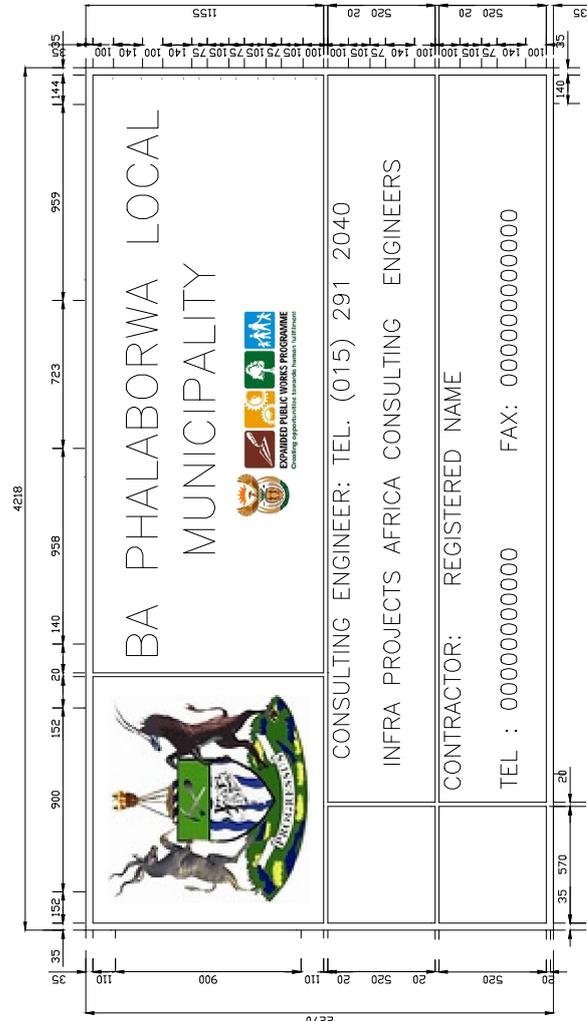
SCALE DATA	COORDINATE
1:250	SOUTH

REVISION	DATE
01	

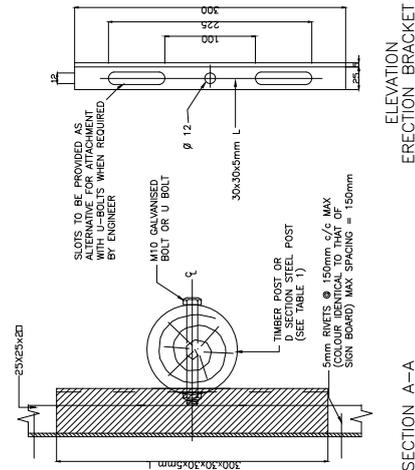
APPROVED ON BEHALF OF INFRA PROJECTS AFRICA: \_\_\_\_\_ DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_



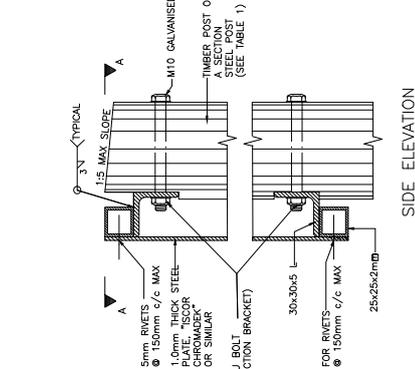


FRONT ELEVATION



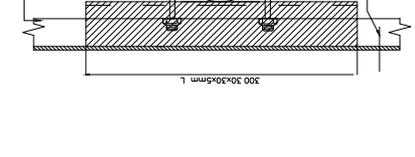
SECTION A-A  
(WITH U BOLT)

FIXING DETAIL FOR SIGN BOARDS



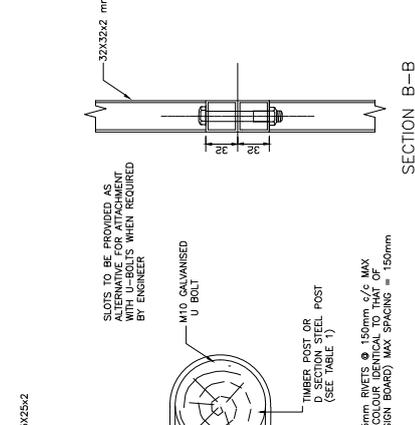
SECTION A-A  
(WITH U BOLT)

FIXING DETAIL FOR SIGN BOARDS



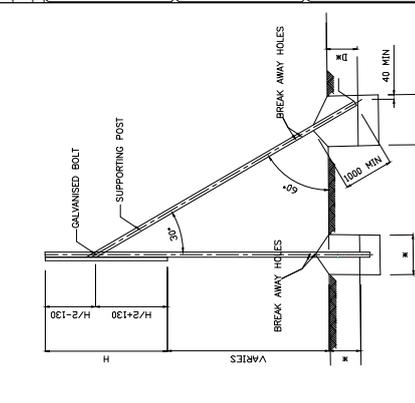
SECTION B-B  
(AT JOINT OF SIGN)

FIXING DETAIL FOR SIGN BOARDS



SECTION B-B  
(AT JOINT OF SIGN)

FIXING DETAIL FOR SIGN BOARDS



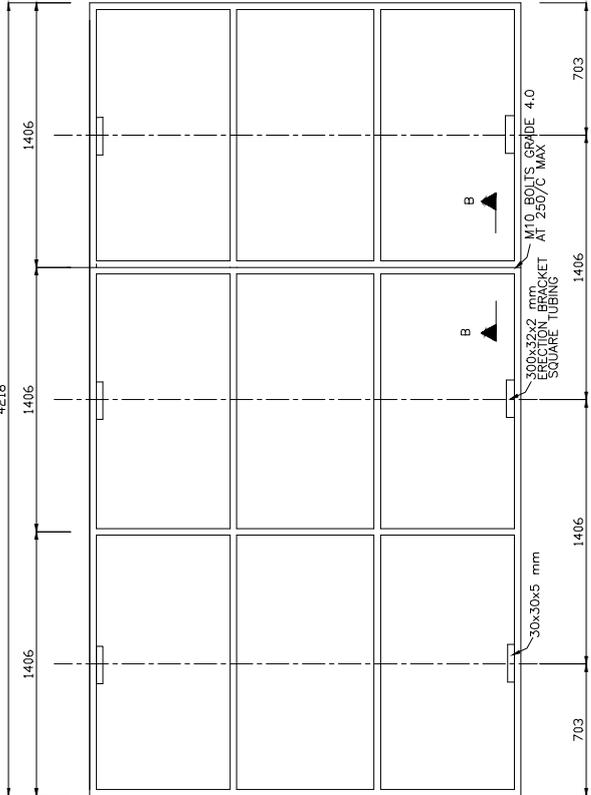
SECTION B-B  
(AT JOINT OF SIGN)

FIXING DETAIL FOR SIGN BOARDS

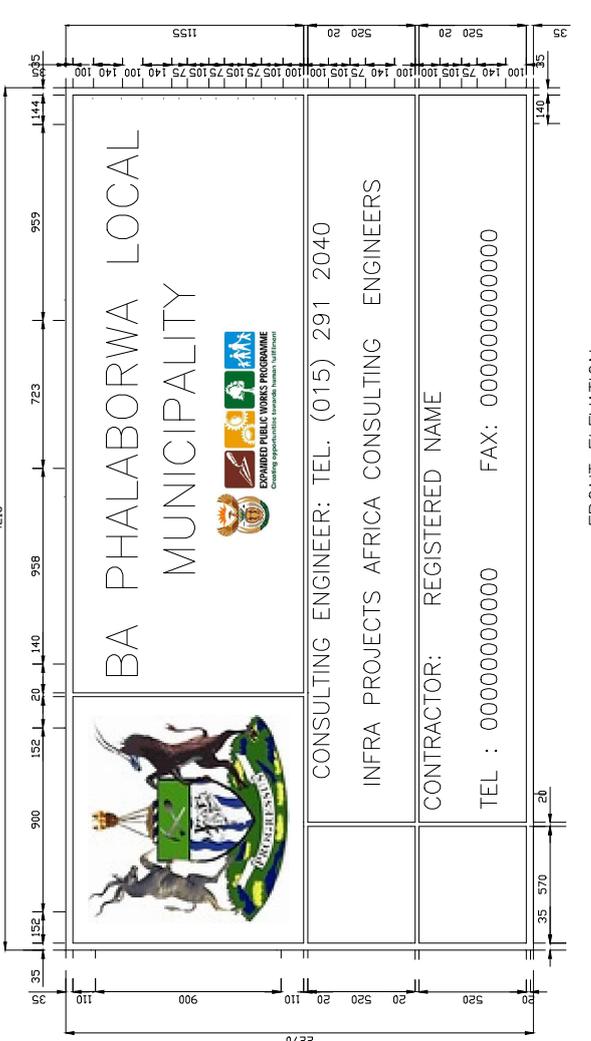
DETERMINATION OF BREAK AWAY HOLES	
POLE DIA (mm)	HOLE DIA (mm)
< 140	NONE
141 - 170	40
171 - 200	50
201 - 225	65

ERECTION DETAILS		
TYPE POST	UPRIGHT	STAY
TIMBER POST AND STAY	100mm	80mm
TIMBER POST	180mm	-
D. SECTION STEEL POST	100mm x 4mm	-
		850mm
		1450mm
		1450mm

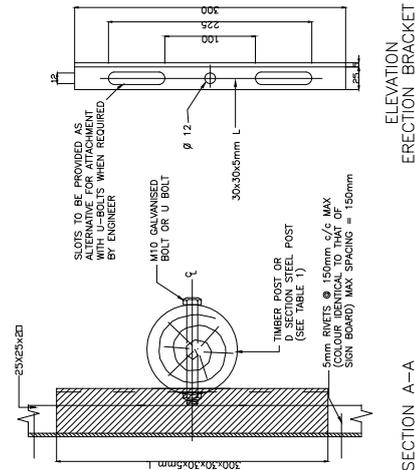
TABLE 1: DETERMINATION OF POSTS & FOOTING



REAR SIDE BRACING

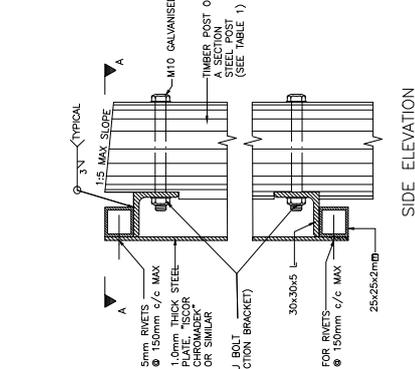


FRONT ELEVATION



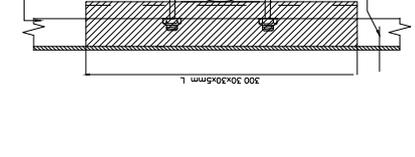
SECTION A-A  
(WITH U BOLT)

FIXING DETAIL FOR SIGN BOARDS



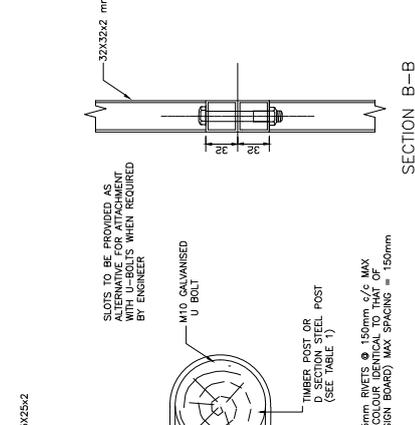
SECTION A-A  
(WITH U BOLT)

FIXING DETAIL FOR SIGN BOARDS



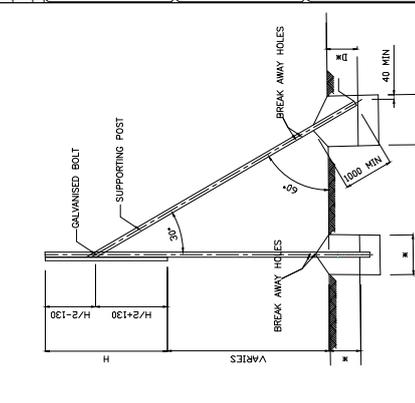
SECTION B-B  
(AT JOINT OF SIGN)

FIXING DETAIL FOR SIGN BOARDS



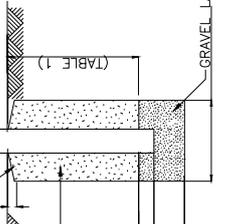
SECTION B-B  
(AT JOINT OF SIGN)

FIXING DETAIL FOR SIGN BOARDS



SECTION B-B  
(AT JOINT OF SIGN)

FIXING DETAIL FOR SIGN BOARDS



FOUNDATION DETAIL

**NOTES:**  
 1. ALL LETTERS TO BE PRINTED IN FULL COLOR ON A SENSITIVE WHITE BACKGROUND.  
 2. LETTERS AND NUMBERS DESCRIPTION: MAT-BLACK, SERIES ON B LETTERS AND NUMBERS ON A SENSITIVE SMOKE-GREY BACKGROUND.  
 3. BORDERS - GREEN NON-REFLECTED.  
 4. QUANTITY TWO SIGN BOARDS IN ENGLISH SHALL BE Erected AS DETERMINED BY THE ENGINEER.  
 5. DESCRIPTION OF WORK NUMBERS OF MATERIALS AND TYPE OF WORK AS SPECIFIED IN THE BILL OF MATERIALS AND THE WORK AS SPECIFIED IN THE BILL OF MATERIALS SHALL BE CENTRED ON THE LEFT-HAND SIDE AND IN THE FIRST COLUMN.  
 6. (a) PRICE FOR EACH UNIT CONTRACTOR & J. HEBER OTHER THAN BLANK

FOR TENDER PURPOSES ONLY			
NO.	DATE	REVISION	DATE
1	22/03/2021	SM	

VERSION AMENDMENTS			
NO.	DATE	REVISION	DATE
1	22/03/2021	SM	

**CLIENT**  
 BAPHALABORWA LOCAL MUNICIPALITY  
 PO BOX 10700 PHALABORWA 1390  
 TEL 015 750 6300 FAX 015 781 0728

**CONSULTANT**  
 Infra Projects Africa  
 SUIT NO 2 SUID PARK 107 SUID STREET PHALABORWA 1390  
 TEL 015 291 2040

REPURBISHMENT OF NAMAKSALE STADIUM

NAME BOARD ERECTION DETAILS	
DATE	MARCH 2021
SCALE OR A1	1:250
DESIGNED	SM
CHECKED	SM
APPROVED	SM
PROJECT NO.	IP/AB/NS/01
REVISION	01

DRAWING TITLE	
ENGINEER	DATE

# LEGEND

WATER MAINLINE PIPE

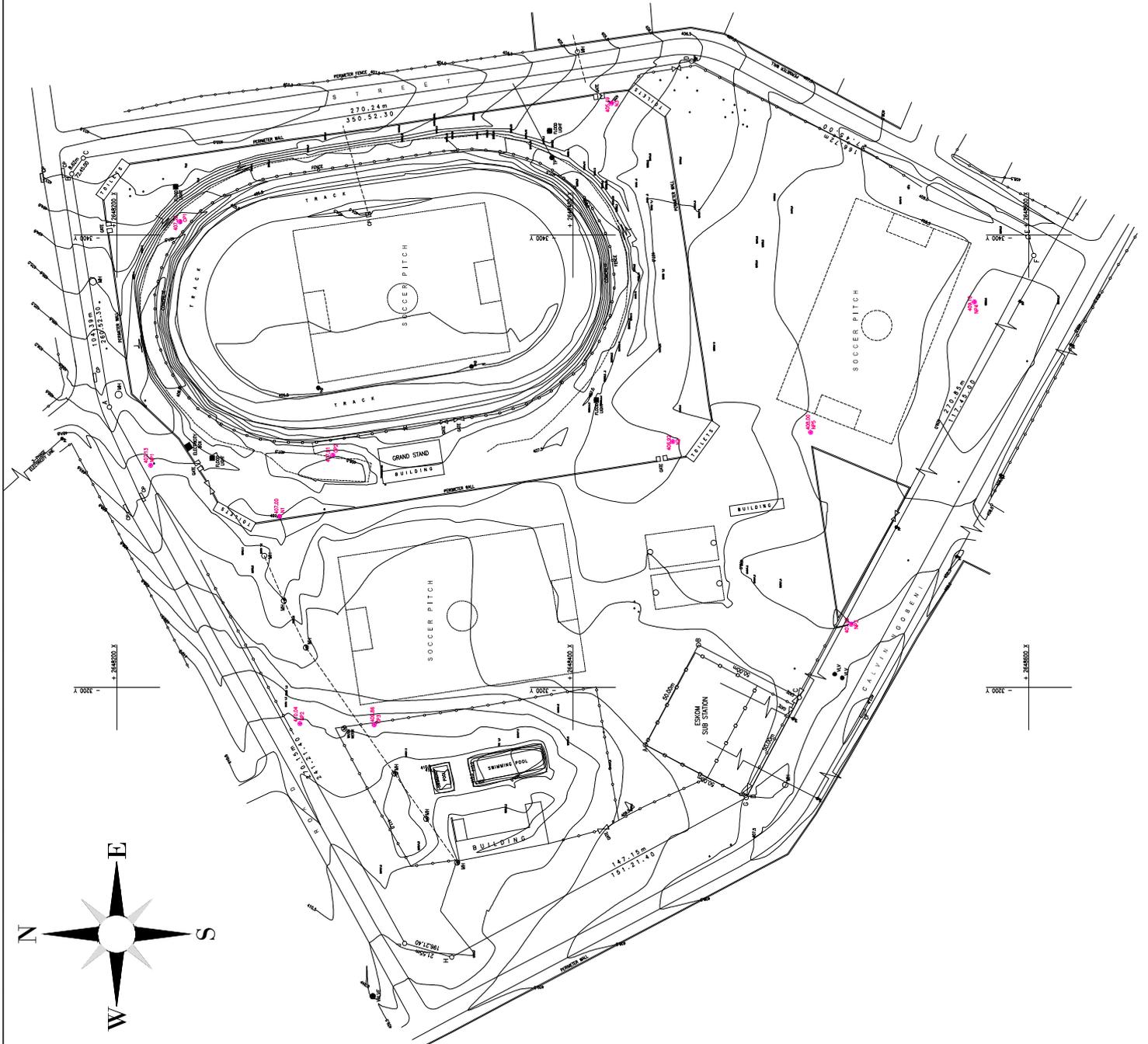


FIRE HYDRANT

GATE VALVE

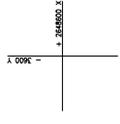
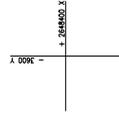
CONNECT TO EXISTING SYSTEM

STRUCTURE IDENTIFICATION			
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**BENCH MARKS**

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N2	-3308.70	2648443.85	406.92
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NP1	-3298.19	2648214.83	407.13
NP2	-3184.02	2648280.29	410.04
NP3	-3227.99	2648522.10	407.99
NP4	-3370.41	2648576.14	409.10
NP5	-3312.78	2648504.27	408.00
CP1	-3405.94	2648227.70	407.22
CP2	-3302.67	2648294.71	407.91
CP3	-3183.49	2648312.86	409.86



**FOR TENDER PURPOSES ONLY**

CERTIFIED AS A REGISTERED CONTRACT		ENGINEER	DATE
<b>VERSION AMENDMENTS</b>			
NO.	DATE	CHECKED BY	AUTHORISED BY
1	22/03/2021	SM	FM
CLIENT			
			
BA-PALABORWA LOCAL MUNICIPALITY PRIVATE BAG X 01020 PALABORWA 1300 TEL: 015 780 6300 FAX: 015 781 0728			
CONSULTANT			
			
INFRA PROJECTS AFRICA SUIT NO.2 SUID PARK 10000 PLOUFRUIT 0899 TEL: 015 291 2040			
PROJECT TITLE			
REFURBISHMENT OF NAMAQALE STADIUM			
FORMING TITLE			
BENCH MARKS			
DATE			
APRIL 2021			
SCALE DRAWN			
COORDINATE			
3022M			
SURVEYED			
3022M			
DRAWN			
CHECKED			
DRAWN NO.			
IPABPNS/BM/01			
REVISION			
01			
APPROVED ON BEHALF OF INFRA PROJECTS AFRICA			
ENGINEER			
DATE			



# CHANGE ROOM & PUBLIC TOILETS LIGHTING LAYOUT

## COPYRIGHT NOTE

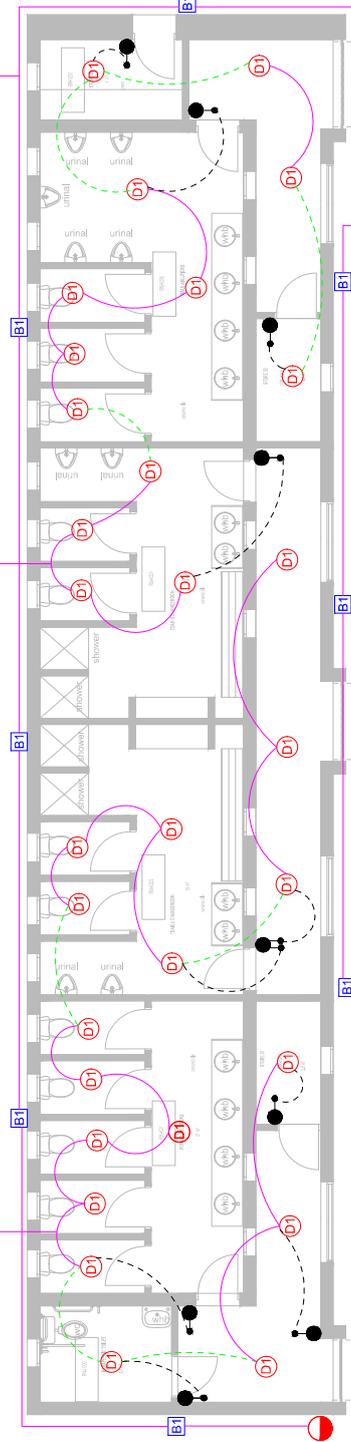
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LEGEND	
	Distribution Board
	46W LED Tube Type Vapor Proof ≥ 7760 lm
	19W LED down Lighter Ceiling Recess Mounted Daylight Switch
	21W Round Bulk 300 ≥ 21000 lm
	One Way Light Switch
	Two Way Light Switch
	One lever 2 Way Light Switch
	600mm x 600mm 30W LED Panel or Equivalent

L3  
DB-CP

L2  
DB-CP

L1  
DB-CP



## NOTES

- ALL LIGHT SWITCHES SHALL BE AT 1400MM A.F.F.L.
- THE PHOTOCELL SHALL BE MOUNTED AWAY FROM THE LIGHTS IT IS CONTROLLING TO AVOID CYCLIC.
- ALL CONDUITS SHALL BE INSTALLED IN THE CEILING AND AND CHASED INTO WALLS. NO SURFACE CONDUIT SHALL BE ALLOWED.

FOR TENDER PURPOSES ONLY

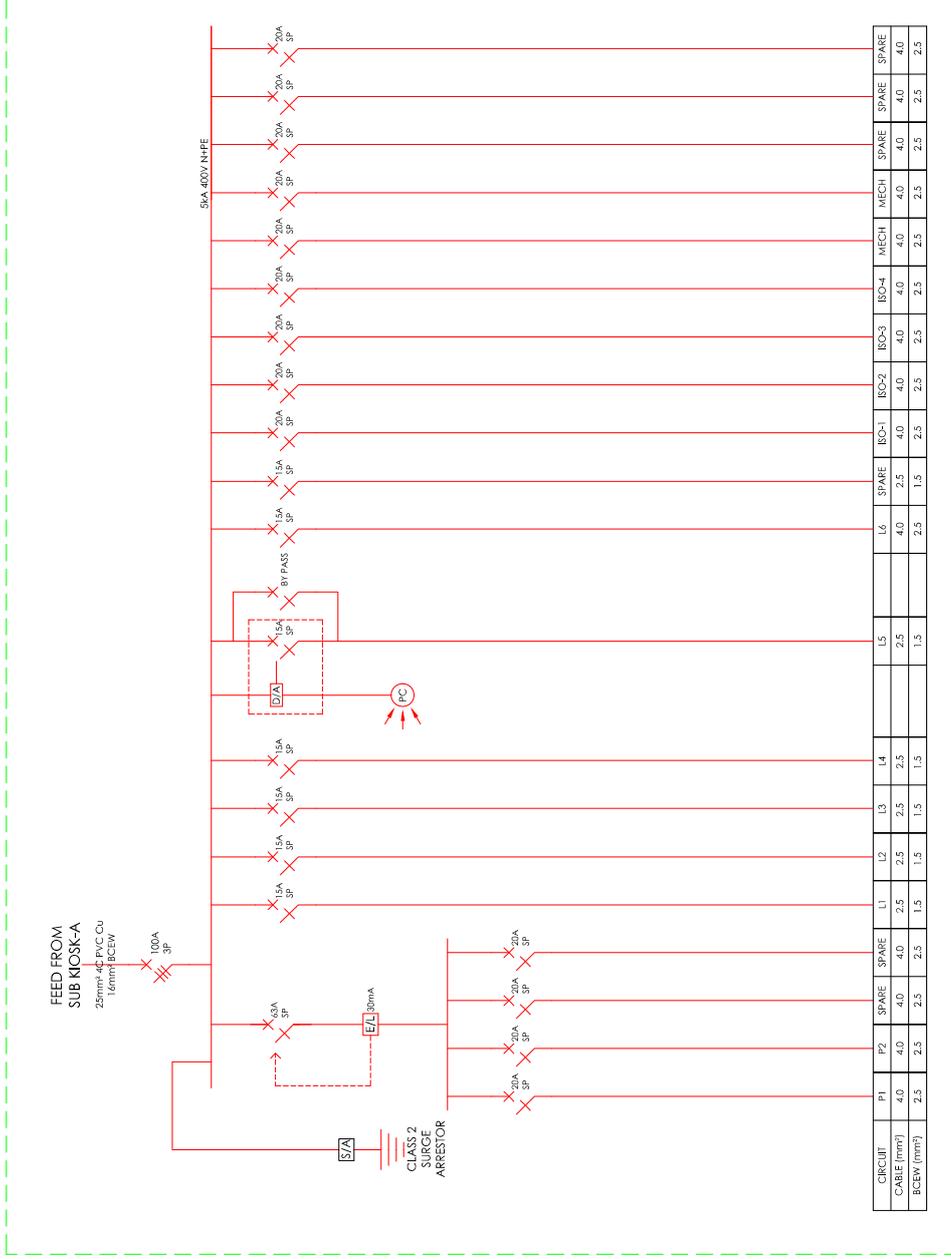
	DESIGNED: VICTOR MUBVWA DRAWN: VICTOR MUBVWA PROJ. ENGINEER: VICTOR MUBVWA PROJ. MANAGER: VICTOR MUBVWA APPROVED:	IMPL. NUMBER: P.M. NUMBER SIGNATURE:	DATE: 11-02-2024	CLIENT APPROVAL TITLE: GENERAL MANAGER PROJECT NUMBER:	IMPLEMENTING AGENT: Ba-Mankariba Municipality P.O. Box 1380 TEL: 015 780 6300	PROJECT / DRAWING TITLE NAMAKGALE STADIUM CHANGE ROOM & PUBLIC TOILETS LIGHTING LAYOUT	SOLID: AS SHOWN CONTRACT NO.: DRAWING NO.: IPA/PLB/MAM-S/E/103	SHEET No. 1 of 1 PROJECT No.: DRAWING No.:
	REFERENCE DRAWINGS	DATE:	DESCRIPTION:	REVISION:	DATE:	CHECKED BY:	DATE:	DATE:





Distribution Board Information		Limiting Dimensions		Voltage:	
Construction:	V	Width (mm)	400	3PHASE	V
Recessed:	-	Height (mm)	2300	3PHASE	V
Surface IP (BIBATED)	V	Depth (mm)	500		V
Floor Standing	-	Colour:	Orange		-
Doors (Not Lockable)	V	Normal Section (N)	Front	Service Access	-
Doors (Lockable)	V	Standby Section (E)	Back		-
Special Features	20%	Solar Section	-		-
Spares (N)	-	Busbar Rating	Normal Section (N)	10kA	-
Spares (E)	-	Normal Section (N)	Standby Section (E)	5	-
Spares (Solar)	-	Standby Section (E)	Solar Section	-	-
Entry Incoming:	-	Material:	Full	-	-
Top	-	Bottom	-	-	-
Bottom	-	Entry Outgoing:	-	-	-
Side	-	Top	-	-	-
Entry Outgoing:	-	Bottom	-	-	-
Top	-	Side	-	-	-
Bottom	-				
Side	-				

### GRAND STAND DB LAYOUT



FOR TENDER PURPOSES ONLY

PROJECT / DRAWING TITLE	NAMAKGALE STADIUM	
PROJECT NO.	-	
CONTRACT NO.	-	
REVISION NO.	IPV/BPM/NS/FE/DR14	
DATE	17-12-2024	
DESIGNED	VICTOR MUBAVVA	
CHECKED		
PROJ. ENGINEER		
PROJ. MANAGER		
APPROVED		
CLIENT APPROVAL	Ba-Phephong Municipality Ba-Phephong Municipality 1380 TEL: 015 780 6300	
TITLE	GENERAL MANAGER	DATE
PROJECT NUMBER		
PROJECT MANAGER		
APPROVED		
ENGINEERING APPROVAL	Infra Projects Africa	
DESCRIPTION	DATE	CHK/APP
REVISIONS		

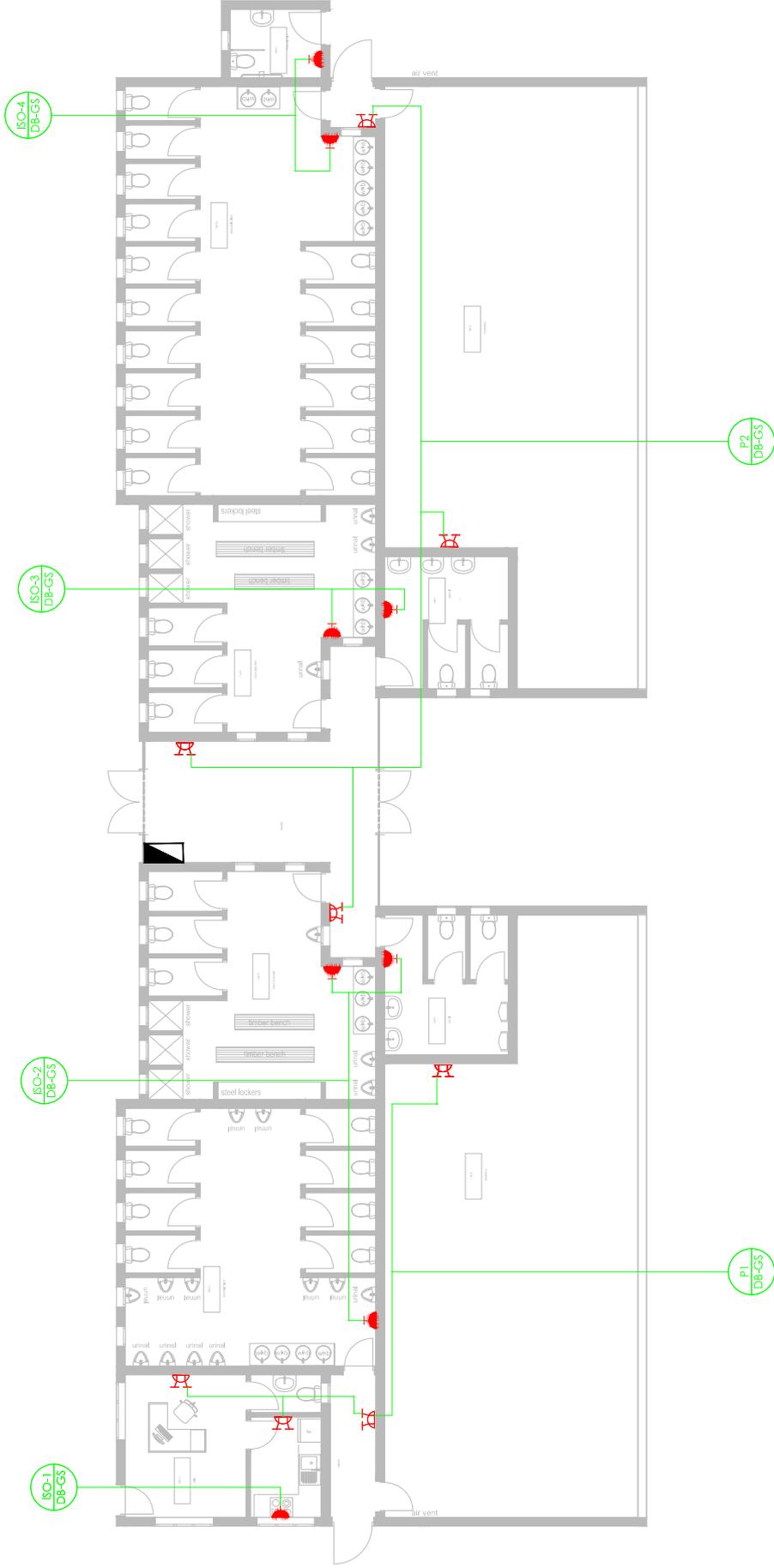




# GRAND STAND SMALL POWER LAYOUT

## Legend

	Distribution Board
	16A Double Power Socket Mounted 300mm Above FFL with 1x 16A-2 and 1x 16A-1 Switched Socket Outlets
	20A Isolator
	30A Isolator

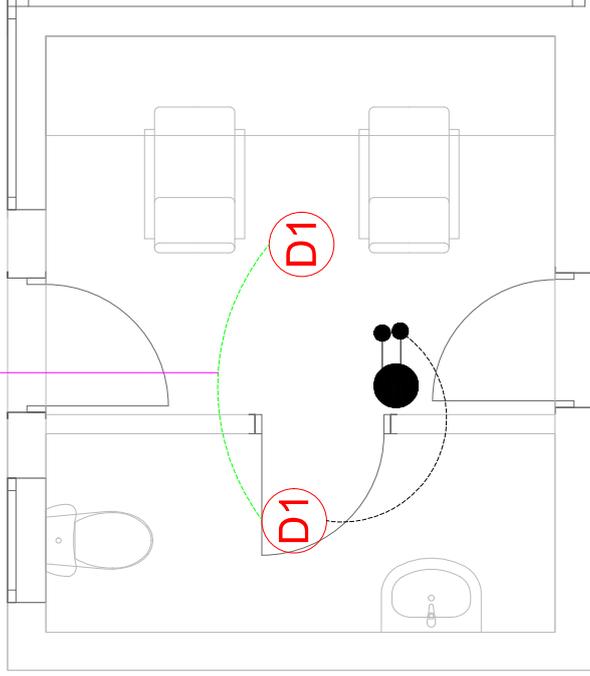


FOR TENDER PURPOSES ONLY

DESIGNED G. MURRAY PROJ. ENGINEER	DRAWN G. MURRAY PROJ. ENGINEER	CHECKED G. MURRAY PROJ. ENGINEER	DATE 11-02-2024	SIGNATURE	PR. NUMBER	NAME VICTOR MURRAY	DATE												
APPROVED				CLIENT APPROVAL															
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>TITLE</th> <th>INITIAL</th> <th>DATE</th> </tr> <tr> <td>GENERAL MANAGER</td> <td></td> <td></td> </tr> <tr> <td>PROJECT MANAGER</td> <td></td> <td></td> </tr> <tr> <td>PROJECT ENGINEER</td> <td></td> <td></td> </tr> </table>				TITLE	INITIAL	DATE	GENERAL MANAGER			PROJECT MANAGER			PROJECT ENGINEER		
TITLE	INITIAL	DATE																	
GENERAL MANAGER																			
PROJECT MANAGER																			
PROJECT ENGINEER																			
				IMPLEMENTING AGENT: Ba-Phegaborng Municipality Phetphongsak Road Phetphongsak 1300 TEL: 015 780 6300															
Electrical Engineers.				PROJECT / DRAWING TITLE NAMAKGALE STADIUM GRAND STAND SMALL POWER LAYOUT															
REFERENCE DRAWINGS				SOLE: HTS CONTRACT NO.: DRAWING NO.: IPA/SP/AM/SE/DR03 SHEET NO. 1 OF 1 PROJECT NO.:															

# SECURITY GUARD ROOM LIGHTING LAYOUT

L1  
DB-SG



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**LEGEND**

Ⓢ	Beko Rond 19W LED down Lighter Recess Mounted or Equivalent
Ⓢ	2 lever one Way light Switch

## NOTES

- ALL LIGHT SWITCHES SHALL BE AT 1400MM A.F.F.L.
- THE PHOTOCELL SHALL BE MOUNTED AWAY FROM THE LIGHTS IT IS CONTROLLING TO AVOID CYCLIC.
- ALL CONDUITS SHALL BE INSTALLED IN THE CEILING AND AND CHASED INTO WALLS. NO SURFACE CONDUIT SHALL BE ALLOWED.

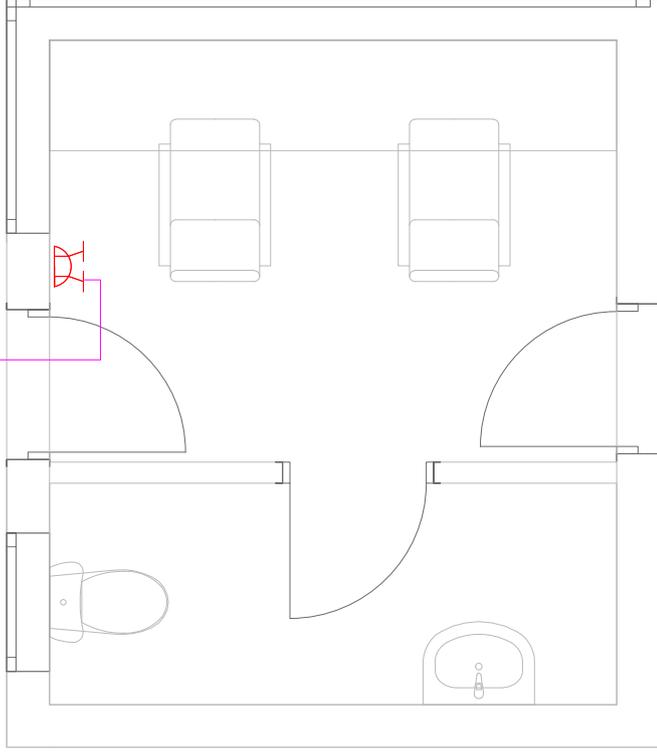
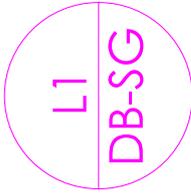
FOR TENDER PURPOSES ONLY

	<b>Electrical Engineers.</b>		<b>CLIENT APPROVAL</b>		<b>IMPLEMENTING AGENT:</b>		<b>PROJECT / DRAWING TITLE</b>																																																																	
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# SECURITY CONTROL GATES SMALL POWER LAYOUT

## Legend

	Distribution Board
	16A Double Power Socket Mounted 300mm Above FFL with 1x164-2 and 1x164-1 Switched Socket Outlets
	20A Isolator



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