



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE



LIMPOPO PROVINCIAL GOVERNMENT

PROPOSED DEVELOPMENT FOR PARLIAMENTARY VILLAGE

DETAILED DESIGN DRAWINGS

MAY 2025



PROPOSED DEVELOPMENT FOR PARLIAMENTARY VILLAGE

DRAWING NUMBER	DESCRIPTION
GENERAL DRAWINGS AND KEY PLAN	
IDT/BPCE/SDP01	SITE DEVELOPMENT PLAN
PLATFORM DRAWINGS	
IDT/BPCE/PL01	STANDARD PLATFORMS LAYOUT
IDT/BPCE/PL02	EXTERNAL PLATFORM LAYOUT
IDT/BPCE/PFA01	STANDARD PLATFORM DETAILS
IDT/BPCE/PFA02	STANDARD PLATFORM DETAILS
ROAD DRAWING	
IDT/BPCE/RD01	ROAD 1 LAYOUT AND LONGSECTION
IDT/BPCE/RD02	ROAD 2 LAYOUT AND LONGSECTION
IDT/BPCE/RD03	ROAD LAYERWORKS
IDT/BPCE/RD04	TYPICAL DETAILS TRAFFIC ACCOMMODATION PLAN
IDT/BPCE/RD05	ROAD 1 CROSS SECTIONS CH 0.00km TO CH 0.308km
IDT/BPCE/RD06	ROAD 2 CROSS SECTIONS CH 0.03km TO CH 0.095km
TYPICAL STANDARD DETAILS	
IDT/BPCE/SD01	TYPICAL STANDARD DETAILS, GABIONS AND STONE PITCHING DETAILS
IDT/BPCE/SD02	TYPICAL STANDARD DETAILS, GABIONS AND STONE PITCHING DETAILS
IDT/BPCE/SD03	TYPICAL STANDARD DETAILS, KERBING STANDARDS ALL ROADS
IDT/BPCE/SD04	TYPICAL STANDARD DETAILS, KERBING STANDARDS ALL ROADS
IDT/BPCE/SD05	TYPICAL STANDARD DETAILS, KERBING STANDARDS ALL ROADS
IDT/BPCE/SD06	TYPICAL STANDARD DETAILS, KI UNITS STANDARDS ALL ROADS
IDT/BPCE/SD07	TYPICAL STANDARD DETAILS, KI UNITS STANDARDS ALL ROADS
IDT/BPCE/SD08	TYPICAL STANDARD DETAILS, KI UNITS STANDARDS ALL ROADS
IDT/BPCE/SD09	TYPICAL STANDARD DETAILS, KI UNITS STANDARDS ALL ROADS
IDT/BPCE/SD10	TYPICAL STANDARD DETAILS, KI UNITS STANDARDS ALL ROADS
IDT/BPCE/SD11	TYPICAL STANDARD DETAILS, KI UNITS STANDARDS ALL ROADS
IDT/BPCE/SD12	TYPICAL STANDARD DETAILS, STORMWATER MANHOLE DETAILS
IDT/BPCE/SD13	TYPICAL STANDARD DETAILS, STORMWATER CATCHPIT DETAILS
IDT/BPCE/SD14	TYPICAL STANDARD DETAILS, STORMWATER CATCHPIT DETAILS

DRAWING NUMBER	DESCRIPTION
SEWER DRAWINGS	
IDT/BPCE/SE01	SEWER LAYOUT AND LONGSECTION MH 1 TO MH 12
IDT/BPCE/SE02	SEWER LAYOUT AND LONGSECTION MH 39 TO MH 33 AND MH 49 TO MH 43
IDT/BPCE/SE03	SEWER LAYOUT AND LONGSECTION MH 38 TO MH 34 AND MH 48 TO MH 46
IDT/BPCE/SS01	STANDARD DETAILS MANHOLE DETAILS
IDT/BPCE/SS02	STANDARD DRAWINGS SEWAGE MANHOLE DETAILS
IDT/BPCE/SS03	STANDARD DRAWINGS SEWER MANHOLE DETAILS
IDT/BPCE/SS04	STANDARD DRAWINGS THRUST BLOCK DETAILS
IDT/BPCE/SS05	STANDARD DRAWINGS HOUSE CONNECTION DETAILS
IDT/BPCE/SS06	STANDARD DRAWINGS BEDDING AND ENCASING DETAILS
IDT/BPCE/SS07	STANDARD DRAWINGS MANHOLE DETAILS FOR 375Ø TO 600Ø SEWERS
IDT/BPCE/SS08	STANDARD DRAWINGS TYPE Z MANHOLE DETAILS FOR 375Ø TO 600Ø SEWERS
IDT/BPCE/SS09	STANDARD DRAWINGS TYPE Z MANHOLE DETAILS FOR 375Ø TO 600Ø SEWERS
STORMWATER DRAWING	
IDT/BPCE/SW01	STORMWATER LAYOUT AND LONGSECTION
IDT/BPCE/SW02	STANDARD DETAILS CONCRETE CHANNEL DETAILS
WATER DRAWINGS	
IDT/BPCE/WW01	OVERALL WATER LAYOUT
IDT/BPCE/WW02	BH1 PUMPING MAIN PIPELINE LAYOUT
IDT/BPCE/WW03	FIRE WATER PIPELINE LAYOUT
IDT/BPCE/WW04	POLOKWANE MUNICIPAL SOURCE NO 2 PIPELINE LAYOUT
IDT/BPCE/WW05	GRAVITY MUNICIPAL SUPPLY PIPELINE LAYOUT
IDT/BPCE/WW06	WATER RETICULATION PIPELINE LAYOUT
IDT/BPCE/WS01	STANDARD DETAILS, BOREHOLE DISCHARGE PIPEWORK
IDT/BPCE/WS02	STANDARD DETAILS, ISOLATION VALVE DETAILS
IDT/BPCE/WS03	STANDARD DETAILS, CONCRETE PUMP HOUSE
IDT/BPCE/WS04	STANDARD DETAILS, BEDDING AND THRUST BLOCK DETAILS
IDT/BPCE/WS05	STANDARD DETAILS, VALVE DETAILS
IDT/BPCE/WS06	STANDARD DETAILS, FIRE HYDRANT DETAILS
IDT/BPCE/WS07	STANDARD DETAILS, THRUST BLOCK DETAILS
IDT/BPCE/WS08	STANDARD DETAILS, PIPE BEDDING DETAILS
IDT/BPCE/WS09	STANDARD DETAILS, MANHOLE DETAILS
IDT/BPCE/WS10	STANDARD DETAILS, WATER DETAILS
IDT/BPCE/WS11	STANDARD DETAILS, ERF CONNECTION PIPE DETAILS

SITE DEVELOPMENT PLAN DRAWINGS (SDP)



SITE DEVELOPMENT PLAN

LEGEND:

- PROPOSED 80mm PAVED AREA
AREA=7225m²
- 1600mm uPVC SEWER PIPELINE - 720M
- 630mm WATER PIPELINE - 682M
- 1100mm FIRE WATER PIPELINE - 1488M
- 630mm HDPE BH1 PIPELINE - 305M
- 900mm uPVC MUNICIPAL PIPELINE - 366M
- 5250mm CONCRETE 50D PIPELINE - 196M
- LOFFELSTEIN WALL - 382M

NOTES:

REVISIONS:		
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:

 **Independent Development Trust**
Limpopo Province
Republic of South Africa

User Client:

 **LIMPOPO**
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:

 **BIG PUN**
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

SITE DEVELOPMENT PLAN

Designed:	LR	Drawn:	KN
Scale:	1:1000	Checked:	LR

Project No:

**Parliamentary
Village**

Dwg No:	Date:	Revision No:
IDT/BPCE/SDP01	25-11-2024	C

PLATFORM DRAWINGS



PLAN ON STAND PLATFORMS
SCALE 1:500

Platform15			
Name	Y-Coord	X-Coord	Z-Coord
Platform151	-48573.959	2642819.969	1313.212
Platform152	-48598.419	2642799.169	1313.845
Platform153	-48576.097	2642772.920	1312.519
Platform154	-48551.290	2642793.312	1312.112
Platform155	-48573.959	2642819.969	1313.212
Platform14			
Name	Y-Coord	X-Coord	Z-Coord
Platform141	-48549.499	2642840.770	1313.326
Platform142	-48573.959	2642819.969	1313.212
Platform143	-48551.290	2642793.312	1312.112
Platform144	-48526.483	2642813.705	1311.591
Platform145	-48549.499	2642840.770	1313.326
Platform_11			
Name	Y-Coord	X-Coord	Z-Coord
Platform_111	-48476.119	2642903.172	1310.320
Platform_112	-48500.579	2642882.371	1311.389
Platform_113	-48476.869	2642854.490	1310.467
Platform_114	-48454.703	2642872.711	1309.668
Platform_115	-48453.614	2642876.708	1309.581
Platform_116	-48476.119	2642903.172	1310.320

Platform7			
Name	Y-Coord	X-Coord	Z-Coord
Platform71	-48451.238	2642771.983	1309.391
Platform72	-48426.344	2642792.091	1308.869
Platform73	-48448.535	2642819.194	1309.753
Platform74	-48473.418	2642799.073	1310.245
Platform75	-48451.238	2642771.983	1309.391
Platform8			
Name	Y-Coord	X-Coord	Z-Coord
Platform81	-48448.535	2642819.194	1309.753
Platform82	-48470.781	2642846.363	1310.540
Platform83	-48488.784	2642831.659	1310.866
Platform84	-48489.832	2642819.119	1310.858
Platform85	-48473.418	2642799.073	1310.245
Platform86	-48448.535	2642819.194	1309.753
Platform9			
Name	Y-Coord	X-Coord	Z-Coord
Platform91	-48423.652	2642839.315	1309.140
Platform92	-48444.864	2642865.219	1309.693
Platform93	-48451.652	2642862.356	1309.925
Platform94	-48470.781	2642846.363	1310.540
Platform95	-48448.535	2642819.194	1309.753
Platform96	-48423.652	2642839.315	1309.140

Platform4			
Name	Y-Coord	X-Coord	Z-Coord
Platform41	-48467.718	2642776.324	1310.021
Platform42	-48494.738	2642752.808	1310.383
Platform43	-48473.868	2642729.611	1309.488
Platform44	-48457.682	2642744.218	1309.390
Platform45	-48455.857	2642761.836	1309.387
Platform46	-48467.718	2642776.324	1310.021
Platform_3			
Name	Y-Coord	X-Coord	Z-Coord
Platform_31	-48497.145	2642755.749	1310.496
Platform_32	-48519.589	2642735.495	1310.654
Platform_33	-48496.139	2642709.511	1309.691
Platform_34	-48494.738	2642752.808	1309.488
Platform_35	-48497.145	2642755.749	1310.496
Platform5			
Name	Y-Coord	X-Coord	Z-Coord
Platform51	-48473.868	2642729.611	1310.383
Platform52	-48467.718	2642776.324	1310.021
Platform53	-48484.829	2642797.225	1310.544
Platform54	-48512.533	2642774.544	1311.095
Platform55	-48494.738	2642752.808	1310.383

Platform2			
Name	Y-Coord	X-Coord	Z-Coord
Platform21	-48518.411	2642689.412	1309.484
Platform22	-48496.139	2642709.511	1309.691
Platform23	-48519.589	2642735.495	1310.664
Platform24	-48541.860	2642715.395	1310.800
Platform25	-48518.411	2642689.412	1309.484
Platform 1			
Name	Y-Coord	X-Coord	Z-Coord
Platform011	-48560.181	2642726.569	1311.681
Platform012	-48561.893	2642697.705	1310.538
Platform013	-48557.727	2642688.979	1310.094
Platform014	-48546.773	2642681.146	1309.747
Platform015	-48528.344	2642680.447	1309.402
Platform016	-48518.411	2642689.412	1309.484
Platform017	-48541.860	2642715.395	1310.800
Platform018	-48560.181	2642726.569	1311.681

Platform13			
Name	Y-Coord	X-Coord	Z-Coord
Platform131	-48501.676	2642834.097	1311.001
Platform132	-48525.039	2642861.571	1312.123
Platform133	-48549.499	2642840.770	1313.326
Platform134	-48526.483	2642813.705	1311.591
Platform135	-48501.676	2642834.097	1311.001
Platform12			
Name	Y-Coord	X-Coord	Z-Coord
Platform121	-48476.888	2642854.447	1310.466
Platform122	-48501.751	2642834.075	1311.004
Platform123	-48524.985	2642861.631	1312.120
Platform124	-48500.488	2642882.382	1311.384
Platform125	-48476.888	2642854.447	1310.466
Platform6			
Name	Y-Coord	X-Coord	Z-Coord
Platform61	-48512.534	2642774.543	1311.095
Platform62	-48484.829	2642797.224	1310.544
Platform63	-48497.569	2642812.786	1311.027
Platform64	-48510.072	2642814.155	1311.482
Platform65	-48530.966	2642797.060	1311.923
Platform66	-48512.534	2642774.543	1311.095

Platform10			
Name	Y-Coord	X-Coord	Z-Coord
Platform101	-48476.119	2642903.172	1310.320
Platform102	-48453.614	2642876.708	1309.581
Platform103	-48453.389	2642877.682	1309.561
Platform104	-48453.239	2642878.671	1309.550
Platform105	-48453.237	2642878.688	1309.550
Platform106	-48453.344	2642879.682	1309.554
Platform107	-48453.393	2642880.681	1309.555
Platform108	-48453.385	2642881.681	1309.555
Platform109	-48453.320	2642882.678	1309.553
Platform1010	-48453.198	2642883.671	1309.549
Platform1011	-48453.018	2642884.654	1309.542
Platform1012	-48452.783	2642885.626	1309.526
Platform1013	-48452.492	2642886.583	1309.508
Platform1014	-48452.147	2642887.521	1309.489
Platform1015	-48451.748	2642888.438	1309.469
Platform1016	-48451.298	2642889.331	1309.447
Platform1017	-48450.797	2642890.196	1309.425
Platform1018	-48450.247	2642891.031	1309.401

Platform10			
Name	Y-Coord	X-Coord	Z-Coord
Platform1019	-48449.650	2642891.833	1309.375
Platform1020	-48449.008	2642892.600	1309.351
Platform1021	-48448.323	2642893.328	1309.326
Platform1022	-48447.598	2642894.016	1309.299
Platform1023	-48446.834	2642894.662	1309.272
Platform1024	-48446.035	2642895.262	1309.242
Platform1025	-48445.202	2642895.816	1309.212
Platform1026	-48444.339	2642896.320	1309.181
Platform1027	-48443.448	2642896.775	1309.150
Platform1028	-48442.533	2642897.177	1309.117
Platform1029	-48441.596	2642897.527	1309.084
Platform1030	-48440.641	2642897.822	1309.055
Platform1031	-48439.670	2642898.061	1309.052
Platform1032	-48438.687	2642898.245	1309.048
Platform1033	-48437.695	2642898.372	1309.044
Platform1034	-48436.698	2642898.441	1309.010
Platform1035	-48435.698	2642898.454	1308.970
Platform1036	-48434.699	2642898.409	1308.929

Platform10			
Name	Y-Coord	X-Coord	Z-Coord
Platform1037	-48433.705	2642898.307	1308.886
Platform1038	-48432.718	2642898.147	1308.841
Platform1039	-48431.741	2642897.932	1308.795
Platform1040	-48431.056	2642897.745	1308.761
Platform1041	-48439.275	2642934.505	1308.938
Platform1042	-48476.119	2642903.172	1310.320

BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

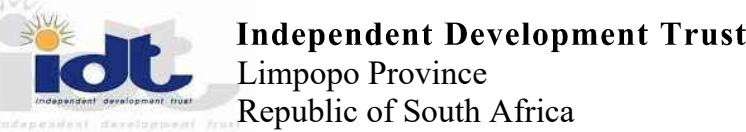
NOTES:

REVISIONS:

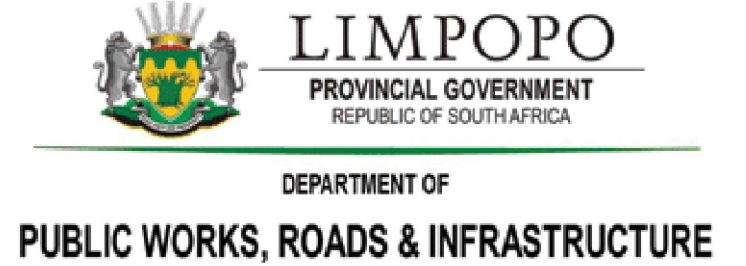
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

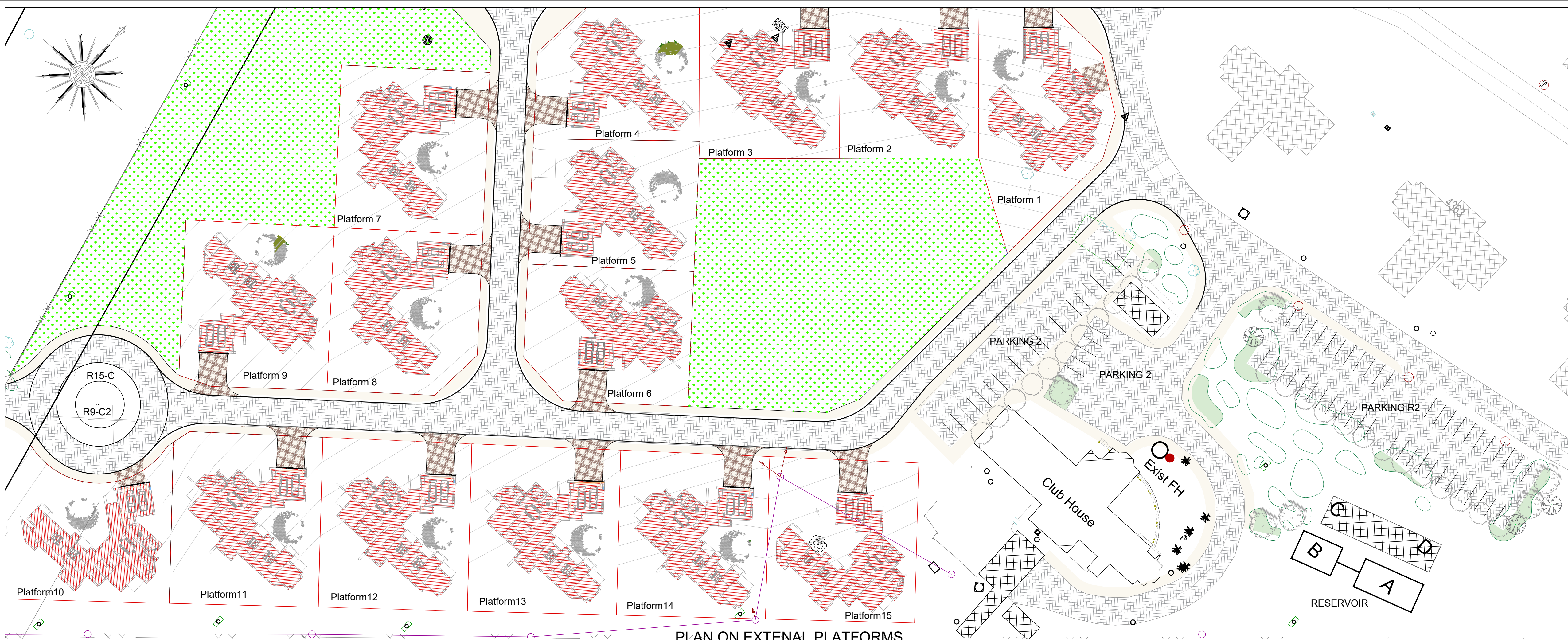
STAND PLATFORMS
LAYOUT & SETTING OUT

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

Parliamentary
Village

Dwg No: IDT/BPCE/PL01	Date: 21-03-2025	Revision No: C
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PLAN ON EXTERNAL PLATFORMS

SCALE 1:500

ReservoirPI			
Name	Y-Coord	X-Coord	Z-Coord
ReservoirPI1	-48643.405	2642727.515	1313.500
ReservoirPI2	-48678.077	2642716.558	1313.500
ReservoirPI3	-48682.089	2642728.287	1313.500
ReservoirPI4	-48645.103	2642740.942	1313.500
ReservoirPI5	-48640.833	2642728.441	1313.500
ReservoirPI6	-48643.405	2642727.515	1313.500
Parking2			
Name	Y-Coord	X-Coord	Z-Coord
Parking21	-48641.090	2642687.333	1311.139
Parking22	-48646.980	2642686.407	1311.227
Parking23	-48647.340	2642688.400	1311.375
Parking24	-48676.971	2642683.803	1311.575
Parking25	-48679.414	2642699.569	1312.460
Parking26	-48614.521	2642709.678	1311.893
Parking27	-48611.949	2642693.834	1311.154
Parking28	-48641.399	2642689.294	1311.381
Parking29	-48641.065	2642687.313	1311.331
Parking210	-48641.090	2642687.333	1311.332

ParkingR2			
Name	Y-Coord	X-Coord	Z-Coord
ParkingR21	-48567.454	2642739.232	1311.948
ParkingR22	-48569.441	2642739.350	1311.973
ParkingR23	-48567.908	2642765.205	1312.424
ParkingR24	-48578.888	2642765.856	1312.819
ParkingR25	-48582.292	2642708.457	1311.390
ParkingR26	-48571.311	2642707.806	1311.332
ParkingR27	-48569.796	2642733.360	1311.790
ParkingR28	-48567.799	2642733.242	1311.734
ParkingR29	-48567.454	2642739.232	1311.948
R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C69	-48450.593	2642877.298	1309.410
R15_C70	-48450.284	2642876.347	1309.410
R15_C71	-48449.912	2642875.419	1309.410
R15_C72	-48448.895	2642873.445	1309.410
R15_C73	-48447.097	2642871.159	1309.410
R15_C74	-48444.336	2642868.815	1309.410
R15_C75	-48441.176	2642867.332	1309.410
R15_C76	-48438.261	2642866.549	1309.363
R15_C77	-48435.262	2642866.455	1309.317

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C1	-48435.262	2642866.455	1309.317
R15_C2	-48432.418	2642866.902	1309.273
R15_C3	-48428.796	2642868.443	1309.212
R15_C4	-48426.620	2642869.910	1309.172
R15_C5	-48425.872	2642870.573	1309.156
R15_C6	-48425.170	2642871.285	1309.141
R15_C7	-48424.516	2642872.041	1309.125
R15_C8	-48423.915	2642872.840	1309.110
R15_C9	-48423.368	2642873.677	1309.094
R15_C10	-48422.878	2642874.548	1309.079
R15_C11	-48422.447	2642875.451	1309.064
R15_C12	-48422.077	2642876.380	1309.048
R15_C13	-48421.770	2642877.331	1309.033
R15_C14	-48421.527	2642878.301	1309.017
R15_C15	-48421.349	2642879.285	1309.002
R15_C16	-48421.237	2642880.278	1308.986
R15_C17	-48421.192	2642881.277	1308.971
R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C18	-48421.213	2642882.277	1308.956
R15_C19	-48421.301	2642883.273	1308.940
R15_C20	-48421.454	2642884.261	1308.925

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C21	-48421.674	2642885.236	1308.909
R15_C22	-48421.958	2642886.195	1308.894
R15_C23	-48422.305	2642887.132	1308.878
R15_C24	-48422.714	2642888.045	1308.863
R15_C25	-48423.183	2642888.928	1308.848
R15_C26	-48423.709	2642889.778	1308.832
R15_C27	-48424.291	2642890.591	1308.817
R15_C28	-48424.602	2642890.982	1308.689
R15_C29	-48425.263	2642891.733	1308.707
R15_C30	-48425.972	2642892.438	1308.726
R15_C31	-48426.727	2642893.094	1308.744
R15_C32	-48427.523	2642893.698	1308.763
R15_C33	-48428.359	2642894.248	1308.781
R15_C34	-48429.228	2642894.741	1308.800
R15_C35	-48430.129	2642895.174	1308.818
R15_C36	-48431.057	2642895.547	1308.837
R15_C37	-48432.007	2642895.858	1308.855
R15_C38	-48432.976	2642896.104	1308.874
R15_C39	-48433.960	2642896.285	1308.892
R15_C40	-48434.953	2642896.400	1308.911
R15_C41	-48435.951	2642896.449	1308.929

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C42	-48436.951	2642896.431	1308.948
R15_C43	-48437.947	2642896.346	1308.966
R15_C44	-48438.936	2642896.196	1308.985
R15_C45	-48439.912	2642895.980	1309.003
R15_C46	-48440.871	2642895.699	1309.022
R15_C47	-48441.810	2642895.355	1309.040
R15_C48	-48442.724	2642894.949	1309.059
R15_C49	-48443.609	2642894.483	1309.077
R15_C50	-48444.460	2642893.959	1309.096
R15_C51	-48445.275	2642893.380	1309.114
R15_C52	-48446.050	2642892.748	1309.133
R15_C53	-48446.780	2642892.065	1309.151
R15_C54	-48447.464	2642891.336	1309.170
R15_C55	-48448.097	2642890.562	1309.188
R15_C56	-48448.678	2642889.748	1309.207
R15_C57	-48449.203	2642888.897	1309.225
R15_C58	-48449.670	2642888.013	1309.244
R15_C59	-48450.077	2642887.100	1309.262
R15_C60	-48450.422	2642886.162	1309.281
R15_C61	-48450.704	2642885.202	1309.299
R15_C62	-48450.922	2642884.227	1309.318

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C63	-48451.074	2642893.238	1309.336
R15_C64	-48451.159	2642892.242	1309.355
R15_C65	-48451.179	2642891.243	1309.373
R15_C66	-48451.131	2642890.244	1309.392
R15_C67	-48451.017	2642879.251	1309.410
R15_C68	-48450.838	2642878.267	1309.410
R9_C21	-48440.670	2642889.263	1309.610
R9_C22	-48439.777	2642889.712	1309.610
R9_C23	-48438.840	2642890.059	1309.610
R9_C24	-48437.870	2642890.300	1309.610
R9_C25	-48436.879	2642890.432	1309.610
R9_C26	-48435.880	2642890.454	1309.610
R9_C27	-48434.885	2642890.364	1309.610
R9_C28	-48433.905	2642890.165	1309.610
R9_C29	-48432.954	2642889.858	1309.610
R9_C210	-48432.043	2642889.448	1309.610
R9_C211	-48431.182	2642888.939	1309.610
R9_C212	-48430.384	2642888.338	1309.610
R9_C213	-48429.657	2642887.652	1309.610
R9_C214	-48429.010	2642886.869	1309.610
R9_C215	-48428.453	2642886.060	1309.610

R9_C2			
Name	Y-Coord	X-Coord	Z-Coord
R9_C216	-48427.990	2642885.174	1309.610
R9_C217	-48427.629	2642884.242	1309.610
R9_C218	-48427.373	2642883.276	1309.610
R9_C219	-48427.226	2642882.287	1309.610
R9_C220	-48427.189	2642881.289	1309.610
R9_C221	-48427.264	2642880.292	1309.610
R9_C222	-48427.448	2642879.309	1309.610
R9_C223	-48427.740	2642878.354	1309.610
R9_C224	-48428.137	2642877.436	1309.610
R9_C225	-48428.632	2642876.568	1309.610
R9_C226	-48429.221	2642875.761	1309.610
R9_C227	-48429.896	2642875.023	1309.610
R9_C228	-48430.648	2642874.365	1309.610
R9_C229	-48431.469	2642873.795	1309.610
R9_C230	-48431.705	2642873.655	1309.610
R9_C231	-48432.598	2642873.206	1309.610
R9_C232	-48433.535	2642872.859	1309.610
R9_C233	-48434.505	2642872.618	1309.610
R9_C234	-48435.496	2642872.486	1309.610
R9_C235	-48436.495	2642872.464	1309.610
R9_C236	-48437.491	2642872.554	1309.610

R9_C2			
Name	Y-Coord	X-Coord	Z-Coord
R9_C237	-48438.470	2642872.753	1309.610
R9_C238	-48439.421	2642873.060	1309.610
R9_C239	-48440.333	2642873.470	1309.610
R9_C240	-48441.193	2642873.979	1309.610
R9_C241	-48441.991	2642874.580	1309.610
R9_C242	-48442.718	2642875.266	1309.610
R9_C243	-48443.365	2642876.029	1309.610
R9_C244	-48443.923	2642876.858	1309.610
R9_C245	-48444.385	2642877.744	1309.610
R9_C246	-48444.746	2642878.676	1309.610
R9_C247	-48445.002	2642879.642	1309.610
R9_C248	-48445.149	2642880.631	1309.610
R9_C249	-48445.186	2642881.629	1309.610
R9_C250	-48445.112	2642882.626	1309.610
R9_C251	-48444.927	2642883.608	1309.610
R9_C252	-48444.635	2642884.564	1309.610
R9_C253	-48444.238	2642885.482	1309.610
R9_C254	-48443.743	2642886.350	1309.610
R9_C255	-48443.154	2642887.157	1309.610
R9_C256	-48442.479	2642887.895	1309.610
R9_C257	-48441.727	2642888.553	1309.610
R9_C258	-48440.906	2642889.123	1309.610
R9_C259	-48440.670	2642889.263	1309.610

NOTES:

BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS:

A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

**EXTERNAL PLATFORMS
LAYOUT & SETTING OUT**

Designed: LR

Drawn: KN

Scale: AS SHOWN

Checked: LR

Project No:

**Parliamentary
Village**

Dwg No:

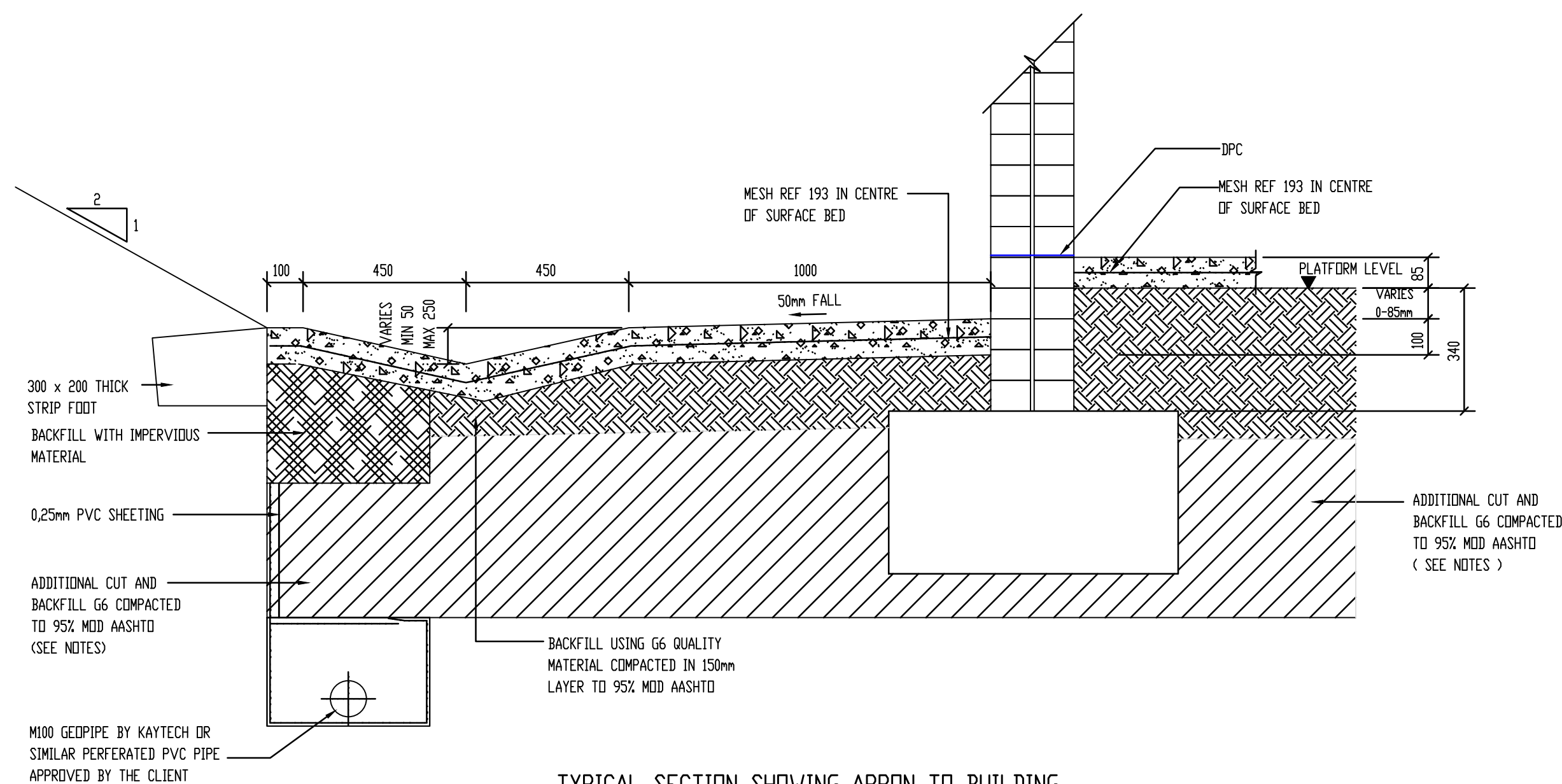
IDT/BPCE/PL02

Date:

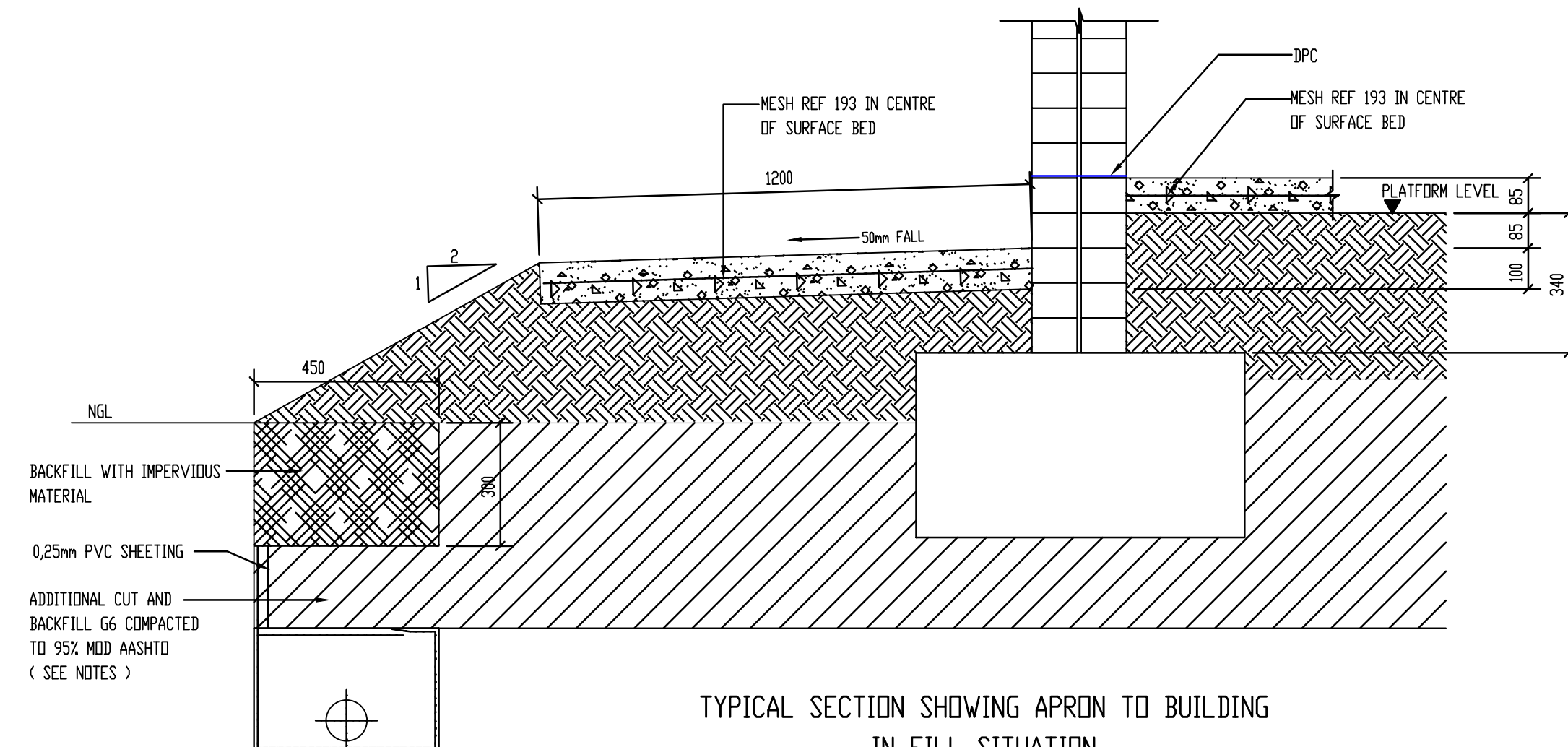
21-03-2025

Revision No:

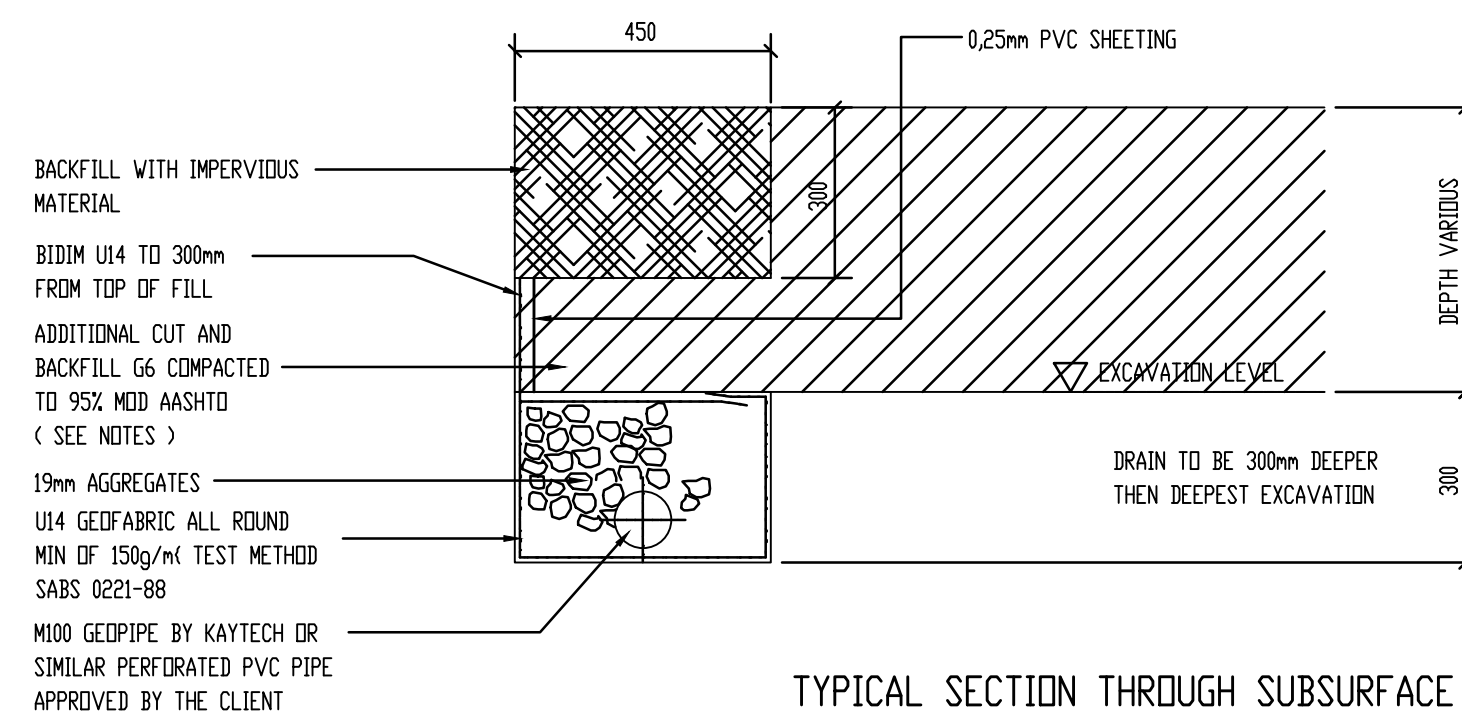
C



TYPICAL SECTION SHOWING APRON TO BUILDING
IN CUT SITUATION
SCALE 1:10



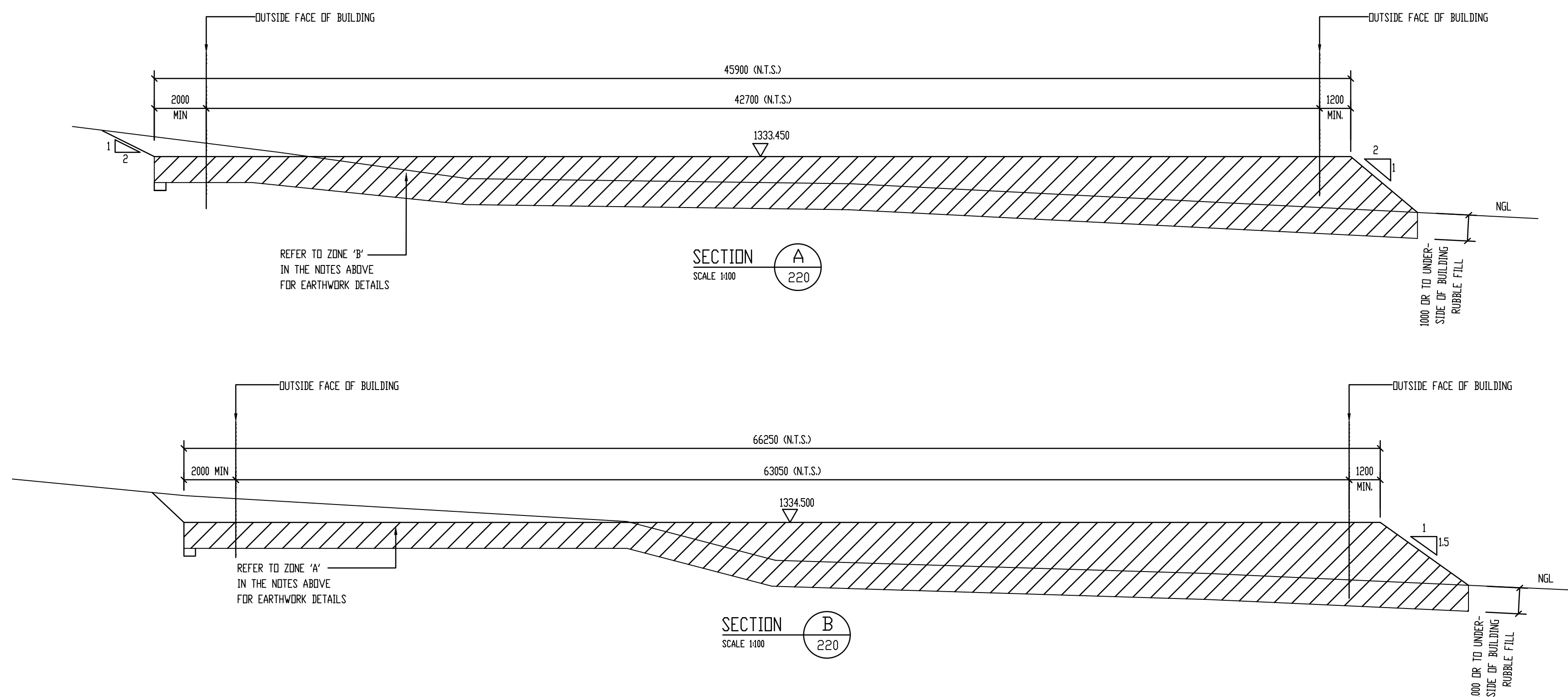
TYPICAL SECTION SHOWING APRON TO BUILDING
IN FILL SITUATION
SCALE 1:10



TYPICAL SECTION THROUGH SUBSURFACE DRAIN
TO BE INSTALLED AS DIRECTED BY THE ENGINEER
SCALE 1:10

NOTES:

- ZONE A:
 - EXCAVATE 1000mm OF IN SITU MATERIAL TO STOCK PILE
 - RIP AND COMPACT IN SITU MATERIAL TO 93% MOD AASHTO DENSITY AT DMC
- ZONE B:
 - EXCAVATE TO SPOIL EXPANSIVE MATERIAL TO A DEPTH OF 1.0m OR TO UNDERSIDE OF BUILDING RUBBLE FILL
 - RIP AND COMPACT IN SITU MATERIAL TO 93% MOD AASHTO DENSITY AT DMC
 - BACK FILL USING G6 QUALITY APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO 95% MOD AASHTO DENSITY AT DMC TO UNDER SIDE OF FINAL FLOOR LEVEL
- REFER TO DRAWING NO. 24419/54/C/220 FOR POSITION OF DETAILS



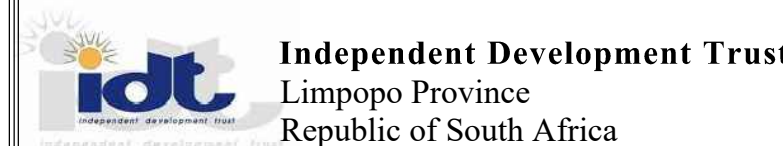
NOTES:

REVISIONS:

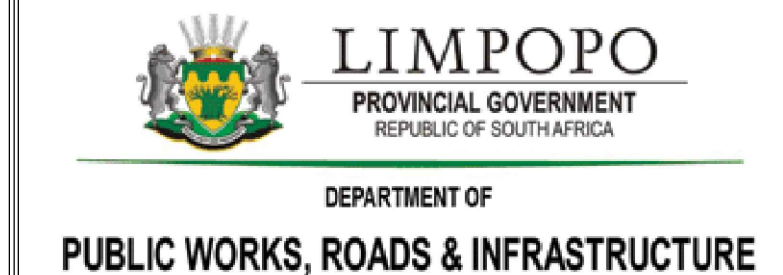
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

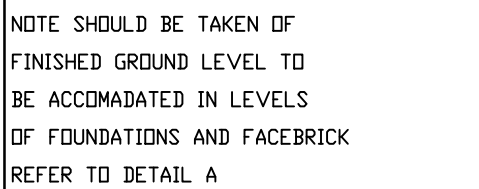
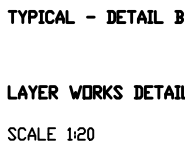
STANDARD DRAWING
TYPICAL DETAILS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

Parliamentary
Village

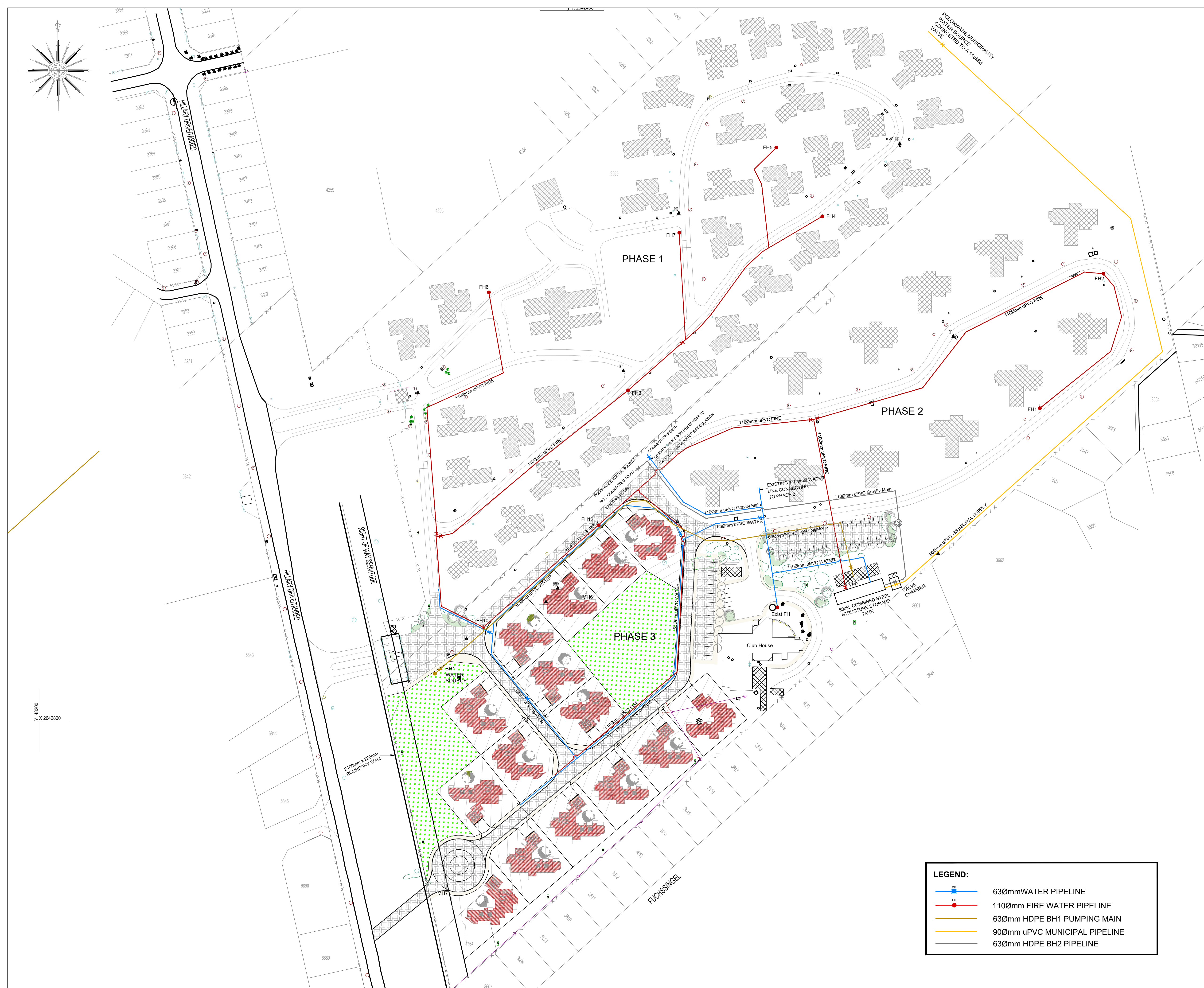
Dwg No: IDT/BPCE/PFA01	Date: 25-11-2024	Revision No: C
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Dwg No: IDT/BPCE/PFA02	Date:	Revision No: C
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C

WATER INFRASTRUCTURE DRAWINGS



BENCH MARKS Lo29/WGS84		
NAME	Y	X
TH11	-48440.588	2642753.825
TH12	-48559.444	2642687.734
TH13	-48706.084	2642705.651
TH15	-48714.683	2642583.549
TH16	-48413.300	2642615.362
TH17	-48528.939	2642602.971
TH18	-48684.521	2642475.042
TH19	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

25/11/2024 REVISIONS:		
A		ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:	

Implementing Client:



Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



BIG PUN
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

OVERALL WATER LAYOUT

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/WW01	Date: 21-03-2025	Revision No: C
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LEGEND:

630mm HDPE BH1 PUMPING MAIN

NOTES:

BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS:

A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:

 **Independent Development Trust**
Limpopo Province
Republic of South Africa

User Client:

 **LIMPOPO**
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:

 **BIG PUN**
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

**BH1 PUMPING MAIN
PIPELINE LAYOUT**

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/WW02	Date: 21-03-2025	Revision No: C
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BENCH MARKS Lo29/WGS84		
NAME	Y	X
TH11	-48440.588	2642753.825
TH12	-48559.444	2642687.734
TH13	-48706.084	2642705.651
TH15	-48714.683	2642583.549
TH16	-48413.300	2642615.362
TH17	-48528.939	2642602.971
TH18	-48684.521	2642475.042
TH19	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS:		
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:	

Implementing Client:



Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

**FIRE WATER
PIPELINE LAYOUT**

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/WW03	Date: 21-03-2025	Revision No: C
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BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS:		
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



BIG PUN
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:	
BH2 GRAVITY MAIN PIPELINE LAYOUT	
Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/WW04	Date: 21-03-2025	Revision No: C
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BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS:		
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:	

Implementing Client:



Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



BIG PUN
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

**GRAVITY MUNICIPAL SUPPLY
PIPELINE LAYOUT**

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/WW05	Date: 21-03-2025	Revision No: C
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NOTES:

BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS: 26/01/2024

A		ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:

 **Independent Development Trust**
Limpopo Province
Republic of South Africa

User Client:

 **LIMPOPO**
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:

 **BIG PUN**
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

**WATER RETICULATION
PIPELINE LAYOUT**

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

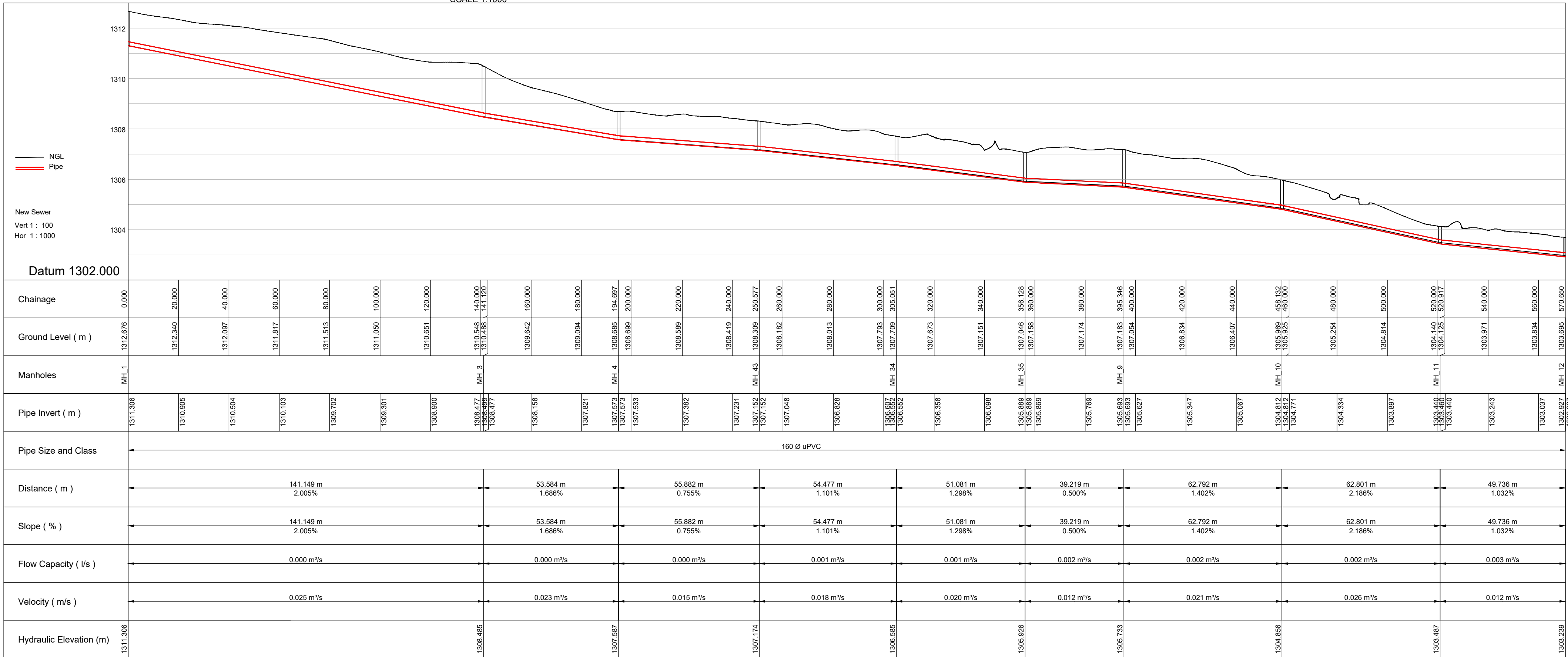
Dwg No: IDT/BPCE/WW06	Date: 21-03-2025	Revision No: C
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SEWER INFRASTRUCTURE DRAWINGS



Sewer Schedule													
Name	Node Type	Node Size	Y-Coord	X-Coord	Cover	Inlet	Depth	Slope	Type	Size	Level In	Level Out	
MH_1	Round Precast	1200	Ø 1200	-48576.83	2642776.60	1312.68	1311.31	1.37					
MH_3	Round Precast	1200	Ø 1200	-48467.39	2642865.70	1310.49	1308.48	2.01	2.01 %	PVC-U	160 mm	1311.31	1308.48
MH_4	Round Precast	1200	Ø 1200	-48426.03	2642899.75	1308.69	1307.57	1.11	1.69 %	PVC-U	160 mm	1308.48	1307.57
MH_43	Round Precast	1200	Ø 1200	-48412.97	2642845.42	1308.31	1307.15	1.16	0.75 %	PVC-U	160 mm	1307.57	1307.15
MH_34	Round Precast	1200	Ø 1200	-48399.15	2642792.73	1307.71	1306.55	1.16	1.10 %	PVC-U	160 mm	1307.15	1306.55
MH_35	Round Precast	1200	Ø 1200	-48387.75	2642742.94	1307.05	1305.89	1.16	1.30 %	PVC-U	160 mm	1306.55	1305.89
MH_9	Round Precast	1200	Ø 1200	-48406.27	2642708.37	1307.18	1305.69	1.49	0.50 %	PVC-U	160 mm	1305.89	1305.69
MH_10	Round Precast	1200	Ø 1200	-48392.83	2642647.04	1305.97	1304.81	1.16	1.40 %	PVC-U	160 mm	1305.69	1304.81
MH_11	Round Precast	1200	Ø 1200	-48379.39	2642585.71	1304.13	1303.44	0.69	2.19 %	PVC-U	160 mm	1304.81	1303.44
MH_12	Round Precast	1200	Ø 1200	-48416.05	2642552.11	1303.69	1302.93	0.77	1.03 %	PVC-U	160 mm	1303.44	1302.93
MH_49	Round Precast	1200	Ø 1200	-48428.54	2642833.88	1308.97	1307.54	1.43					
MH_43	Round Precast	1200	Ø 1200	-48412.97	2642845.42	1308.31	1307.15	1.16	2.03 %	PVC-U	160 mm	1307.54	1307.15
MH_38	Round Precast	1200	Ø 1200	-48533.19	2642677.84	1309.13	1307.95	1.18					
MH_32	Round Precast	1200	Ø 1200	-48483.67	2642721.09	1309.36	1307.62	1.74	0.50 %	PVC-U	160 mm	1307.95	1307.62
MH_33	Round Precast	1200	Ø 1200	-48452.18	2642750.74	1309.09	1307.36	1.73	0.61 %	PVC-U	160 mm	1307.62	1307.36
MH_46	Round Precast	1200	Ø 1200	-48414.03	2642781.09	1308.41	1306.75	1.66	1.26 %	PVC-U	160 mm	1307.36	1306.75
MH_34	Round Precast	1200	Ø 1200	-48399.15	2642792.73	1307.71	1306.55	1.16	1.04 %	PVC-U	160 mm	1306.75	1306.55
MH_39	Round Precast	1200	Ø 1200	-48498.49	2642806.84	1310.78	1309.38	1.40					
MH_33	Round Precast	1200	Ø 1200	-48452.18	2642750.74	1309.09	1307.36	1.73	2.77 %	PVC-U	160 mm	1309.38	1307.36
MH_48	Round Precast	1200	Ø 1200	-48444.93	2642820.97	1309.40	1308.11	1.29					
MH_46	Round Precast	1200	Ø 1200	-48414.03	2642781.09	1308.41	1306.75	1.66	2.89 %	PVC-U	160 mm	1308.11	1306.75

Sewer Connections														
Prop	Y-Coord	X-Coord	Length	Dist	Min Ground Level	GL	Max IL Sewer	IL Sewer	IL	ILC to ILS	Type	Min Floor Level	Sewer Depth	Depth
C_2	-48537.005	2642682.478	30.000	3.000	1309.400	1309.402	1308.002	1307.952	1308.258	0.306	Type 1	1309.400	1.448	1.144
C_4	-48505.233	2642710.229	30.000	3.000	1309.611	1309.690	1308.213	1307.741	1308.469	0.727	Type 3	1309.611	1.869	1.221
C_5	-48482.635	2642730.313	30.000	3.000	1309.459	1309.499	1308.061	1307.581	1308.317	0.736	Type 3	1309.459	1.878	1.181
C_6	-48469.994	2642742.214	30.000	3.000	1309.119	1309.364	1307.721	1307.476	1307.977	0.501	Type 2	1309.119	1.643	1.387
C_7	-48478.901	2642773.691	30.000	3.000	1309.900	1309.995	1308.502	1308.324	1308.758	0.434	Type 1	1309.900	1.576	1.237
C_9	-48560.839	2642797.493	30.000	3.000	1312.300	1312.437	1310.902	1310.792	1311.158	0.366	Type 1	1312.300	1.508	1.279
C_10	-48537.214	2642816.893	30.000	3.000	1311.935	1312.070	1310.537	1310.180	1310.793	0.614	Type 2	1311.935	1.756	1.276
C_13	-48461.621	2642878.224	30.000	3.000	1309.894	1310.077	1308.496	1308.267	1308.752	0.484	Type 2	1309.894	1.626	1.325
C_14	-48435.581	2642899.663	30.000	3.000	1309.169	1309.108	1307.771	1307.699	1308.027	0.328	Type 1	1309.169	1.470	1.081
C_18	-48428.833	2642838.641	30.000	2.000	1308.917	1308.967	1307.535	1307.492	1307.759	0.267	Type 1	1308.917	1.425	1.207
C_19	-48432.010	2642791.240	30.000	4.000	1308.724	1308.828	1307.310	1307.260	1307.598	0.338	Type 1	1308.724	1.464	1.230
C_20	-48452.911	2642820.387	30.000	4.000	1309.570	1309.609	1308.156	1308.106	1308.444	0.338	Type 1	1309.570	1.464	1.165
C_22	-48492.521	2642794.905	30.000	1.500	1310.477	1310.511	1308.103	1309.018	1309.311	0.293	Type 1	1310.477	1.459	1.200
C_23	-48511.240	2642840.317	30.000	4.000	1311.318	1311.448	1309.904	1309.480	1310.192	0.713	Type 3	1311.318	1.839	1.256
C_26	-48496.389	2642855.714	30.000	2.500	1310.748	1310.748	1309.358	1308.867	1309.590	0.723	Type 3	1310.748	1.880	1.157



NEW 160Ø SEWER RETICULATION PIPELINE LONGITUDINAL SECTION MANHOLES 10 TO 12

NOTES:

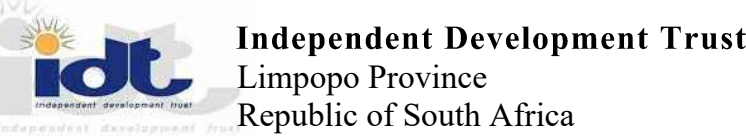
BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS

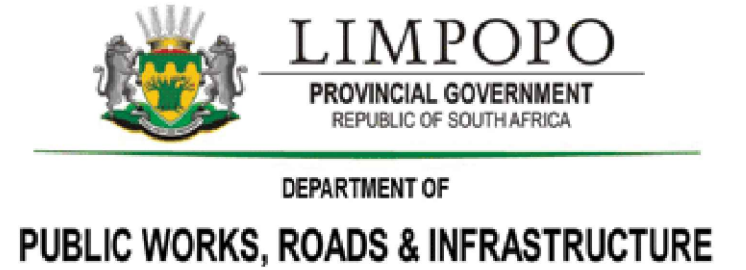
A	ISSUED FOR PDR APPROVAL
B	15/01/2025 ISSUED FOR PDR APPROVAL
C	26/03/2025 ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED DEVELOPMENT FOR PARLIAMENTARY VILLAGE

Drawing Title:

SEWER LAYOUT AND LONGSECTION MH 1 TO MH 12

Designed:

LR

Drawn:

KN

Scale:

AS SHOWN

Checked:

LR

Project No:

Parliamentary Village

Dwg No:

IDT/BPCE/SE01

Date:

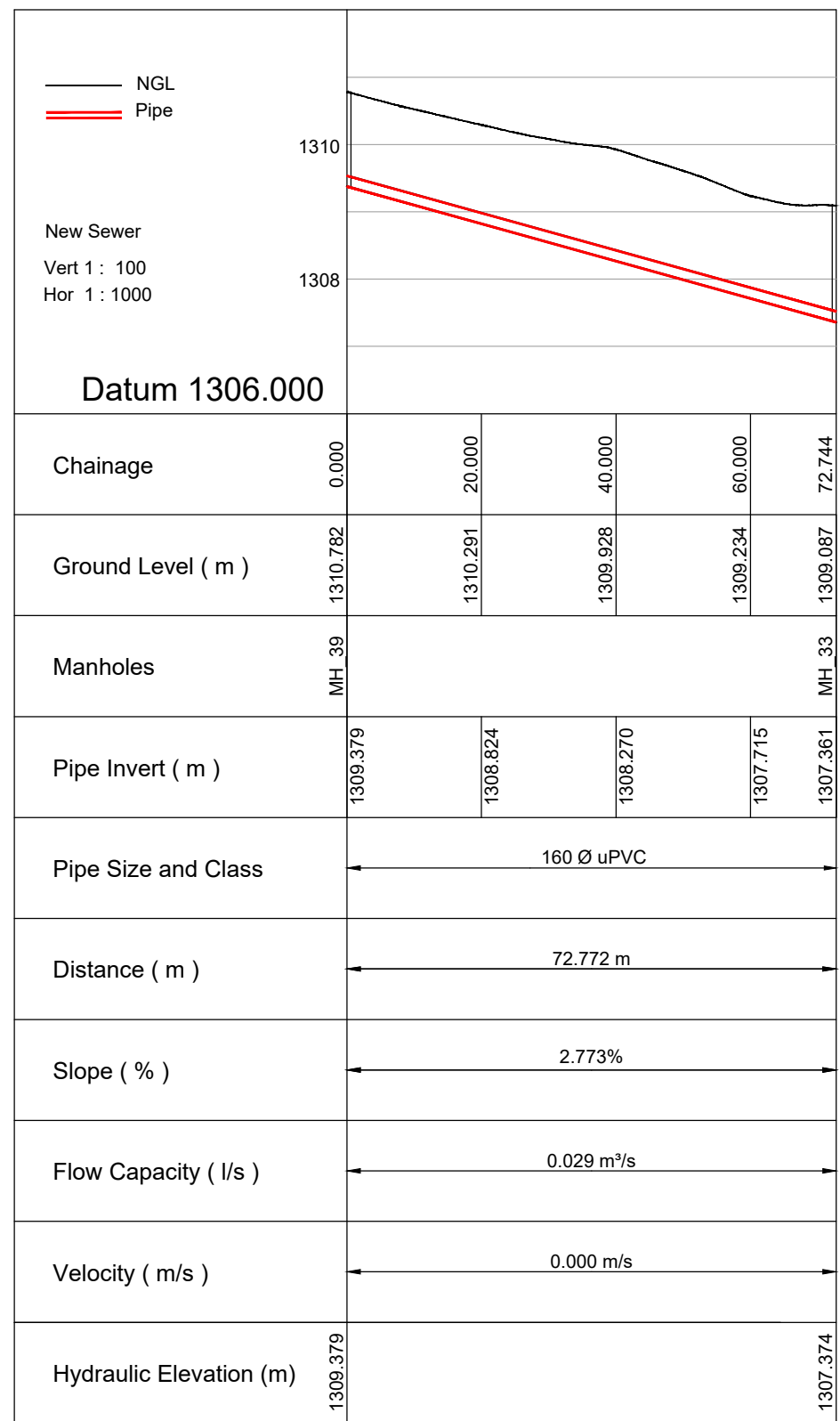
21-03-2025

Revision No:

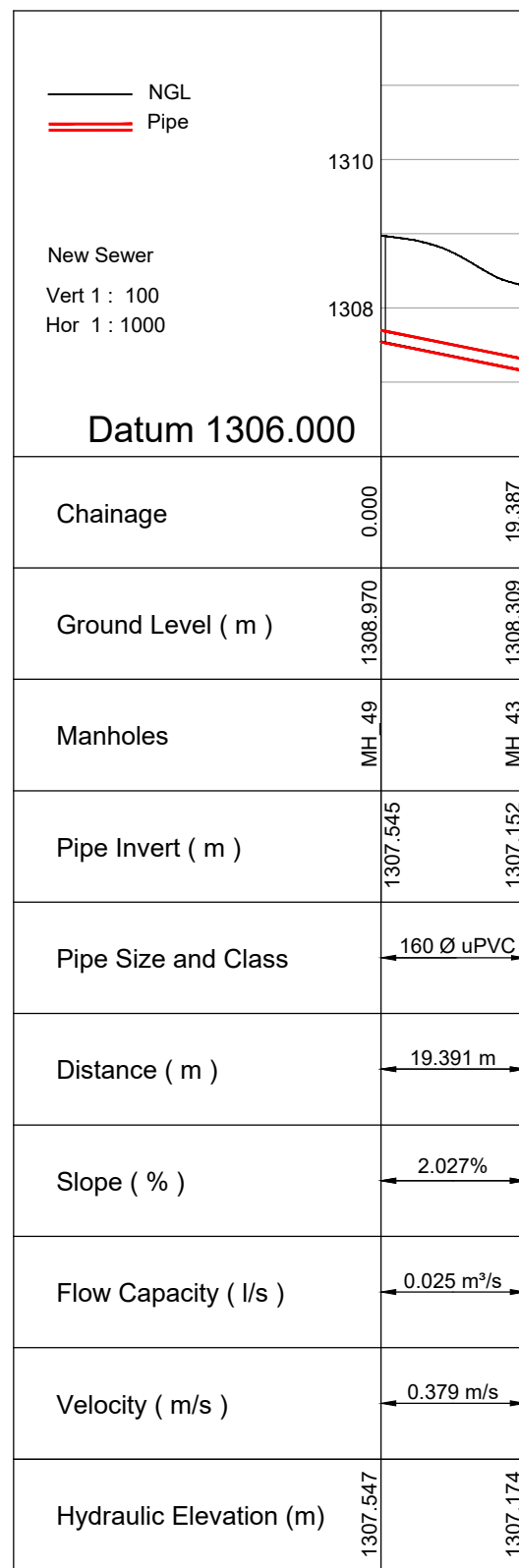
C



PLAN ON SEWER MH 39 TO MH 33 AND MH 49 TO 43
SCALE 1:1000



NEW 160Ø SEWER RETICULATION PIPELINE
LONGITUDINAL SECTION MANHOLES 39 TO 33



NEW 160Ø SEWER RETICULATION PIPELINE
LONGITUDINAL SECTION MANHOLES 49 TO 43

Sewer Schedule													
Name	Node Type	Node Size	Y-Coord	X-Coord	Cover	Inlet	Depth	Slope	Type	Size	Level In	Level Out	
MH_1	Round Precast	1200	Ø 1200	-48576.83	2642776.60	1312.68	1311.31	1.37	2.01 %	PVC-U	160 mm	1311.31	1308.48
MH_3	Round Precast	1200	Ø 1200	-48467.39	2642865.70	1310.49	1308.48	2.01	1.69 %	PVC-U	160 mm	1308.48	1307.57
MH_4	Round Precast	1200	Ø 1200	-48426.03	2642899.75	1308.69	1307.57	1.11	0.75 %	PVC-U	160 mm	1307.57	1307.15
MH_43	Round Precast	1200	Ø 1200	-48412.97	2642845.42	1308.31	1307.15	1.16	1.10 %	PVC-U	160 mm	1307.15	1306.55
MH_34	Round Precast	1200	Ø 1200	-48399.15	2642792.73	1307.71	1306.55	1.16	1.30 %	PVC-U	160 mm	1306.55	1305.89
MH_35	Round Precast	1200	Ø 1200	-48387.75	2642742.94	1307.05	1305.89	1.16	0.50 %	PVC-U	160 mm	1305.89	1305.69
MH_9	Round Precast	1200	Ø 1200	-48406.27	2642708.37	1307.18	1305.69	1.49	1.40 %	PVC-U	160 mm	1305.69	1304.81
MH_10	Round Precast	1200	Ø 1200	-48392.83	2642647.04	1305.97	1304.81	1.16	2.19 %	PVC-U	160 mm	1304.81	1303.44
MH_11	Round Precast	1200	Ø 1200	-48379.39	2642585.71	1304.13	1303.44	0.69	1.03 %	PVC-U	160 mm	1303.44	1302.93
MH_12	Round Precast	1200	Ø 1200	-48416.05	2642552.11	1303.69	1302.93	0.77					
MH_49	Round Precast	1200	Ø 1200	-48428.54	2642833.88	1308.97	1307.54	1.43	2.03 %	PVC-U	160 mm	1307.54	1307.15
MH_43	Round Precast	1200	Ø 1200	-48412.97	2642845.42	1308.31	1307.15	1.16					
MH_38	Round Precast	1200	Ø 1200	-48533.19	2642677.84	1309.13	1307.95	1.18	0.50 %	PVC-U	160 mm	1307.95	1307.62
MH_32	Round Precast	1200	Ø 1200	-48483.67	2642721.09	1309.36	1307.62	1.74	0.61 %	PVC-U	160 mm	1307.62	1306.75
MH_33	Round Precast	1200	Ø 1200	-48452.18	2642750.74	1309.09	1307.36	1.73	1.26 %	PVC-U	160 mm	1307.36	1306.55
MH_46	Round Precast	1200	Ø 1200	-48414.03	2642781.09	1308.41	1306.75	1.66	1.04 %	PVC-U	160 mm	1306.75	1306.55
MH_34	Round Precast	1200	Ø 1200	-48399.15	2642792.73	1307.71	1306.55	1.16					
MH_39	Round Precast	1200	Ø 1200	-48498.49	2642806.84	1310.78	1309.38	1.40	2.77 %	PVC-U	160 mm	1309.38	1307.36
MH_33	Round Precast	1200	Ø 1200	-48452.18	2642750.74	1309.09	1307.36	1.73					
MH_48	Round Precast	1200	Ø 1200	-48444.93	2642820.97	1309.40	1308.11	1.29	2.89 %	PVC-U	160 mm	1308.11	1306.75
MH_46	Round Precast	1200	Ø 1200	-48414.03	2642781.09	1308.41	1306.75	1.66					

Sewer Connections														
Prop	Y-Coord	X-Coord	Length	Dist	Min Ground Level	GL	Max IL Sewer	IL Sewer	IL	ILC to ILS	Type	Min Floor Level	Sewer Depth	Depth
C_2	-48537.005	2642682.478	30.000	3.000	1309.400	1309.402	1308.002	1307.952	1308.258	0.306	Type 1	1309.400	1.448	1.144
C_4	-48505.233	2642710.229	30.000	3.000	1309.611	1309.690	1308.213	1307.741	1308.469	0.727	Type 3	1309.611	1.869	1.221
C_5	-48482.635	2642730.313	30.000	3.000	1309.459	1309.499	1308.061	1307.581	1308.317	0.736	Type 3	1309.459	1.878	1.181
C_6	-48469.994	2642742.214	30.000	3.000	1309.119	1309.364	1307.721	1307.476	1307.977	0.501	Type 2	1309.119	1.643	1.387
C_7	-48478.901	2642773.691	30.000	3.000	1309.900	1309.995	1308.502	1308.324	1308.758	0.434	Type 1	1309.900	1.576	1.237
C_9	-48560.839	2642797.493	30.000	3.000	1312.300	1312.437	1310.902	1310.792	1311.158	0.366	Type 1	1312.300	1.508	1.279
C_10	-48537.214	2642816.893	30.000	3.000	1311.935	1312.070	1310.537	1310.180	1310.793	0.614	Type 2	1311.935	1.756	1.276
C_13	-48461.621	2642878.224	30.000	3.000	1309.894	1310.077	1308.496	1308.267	1308.752	0.484	Type 2	1309.894	1.626	1.325
C_14	-48435.581	2642899.663	30.000	3.000	1309.169	1309.108	1307.771	1307.699	1308.027	0.328	Type 1	1309.169	1.470	1.081
C_18	-48428.833	2642838.641	30.000	2.000	1308.917	1308.967	1307.535	1307.492	1307.759	0.267	Type 1	1308.917	1.425	1.207
C_19	-48432.010	2642791.240	30.000	4.000	1308.724	1308.828	1307.310	1307.260	1307.598	0.338	Type 1	1308.724	1.464	1.230
C_20	-48452.911	2642820.387	30.000	4.000	1309.570	1309.609	1308.156	1308.106	1308.444	0.338	Type 1	1309.570	1.464	1.165
C_22	-48492.521	2642794.905	30.000	1.500	1310.477	1310.511	1309.103	1309.018	1309.311	0.293	Type 1	1310.477	1.459	1.200
C_23	-48511.240	2642840.317	30.000	4.000	1311.318	1311.448	1309.904	1309.480	1310.192	0.713	Type 3	1311.318	1.839	1.256
C_26	-48496.389	2642855.714	30.000	2.500	1310.748	1310.748	1309.358	1308.867	1309.590	0.723	Type 3	1310.748	1.880	1.157

NOTES:

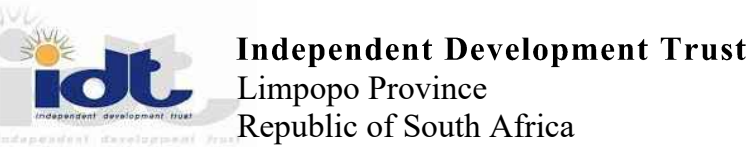
BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS

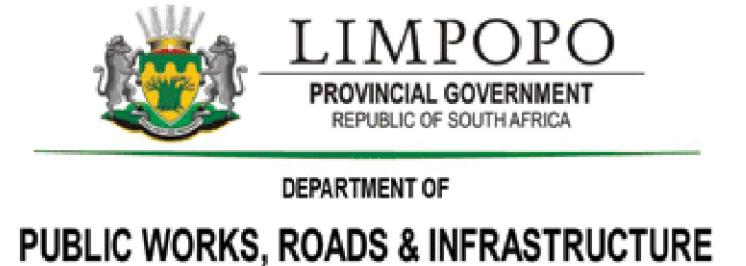
A	ISSUED FOR PDR APPROVAL
B	15/01/2025 ISSUED FOR PDR APPROVAL
C	26/03/2025 ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

SEWER LAYOUT AND LONGSECTION
MH 39 TO MH 33 AND MH 49 TO 43

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

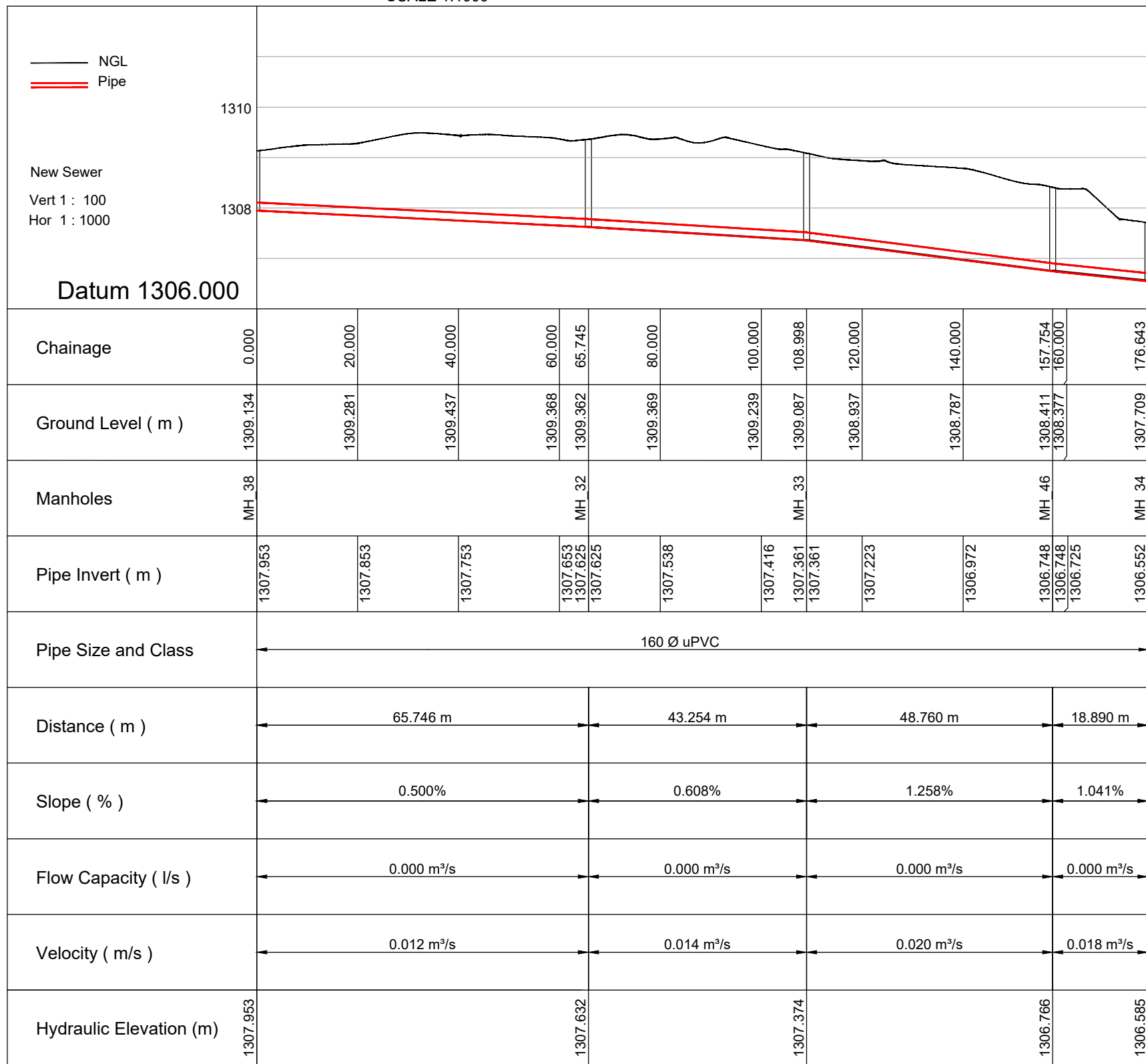
Project No:

Parliamentary
Village

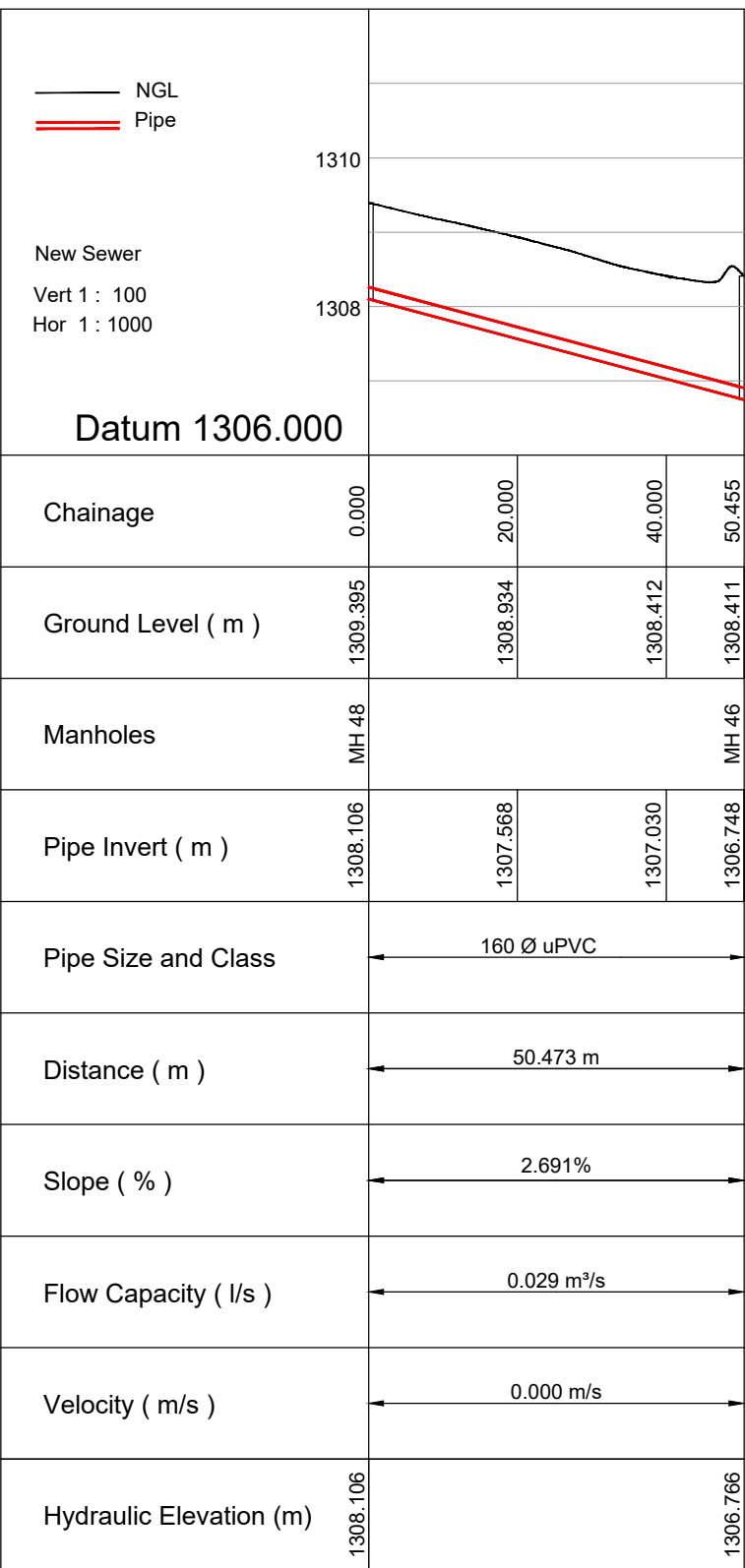
Dwg No: IDT/BPCE/SE02	Date: 21-03-2025	Revision No: C
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PLAN ON SEWER MH 38 TO MH 34 & MH 48 TO 46
SCALE 1:1000



NEW 160Ø SEWER RETICULATION PIPELINE LONGITUDINAL SECTION MANHOLES 38 TO 34



NEW 160Ø SEWER RETICULATION PIPELINE LONGITUDINAL SECTION MANHOLES 48 TO 46

Sewer Schedule												
Name	Node Type	Node Size	Y-Coord	X-Coord	Cover	Inlet	Depth	Slope	Type	Size	Level In	Level Out
MH_1	Round Precast	1200	Ø 1200	-48576.83	2642776.60	1312.68	1311.31	1.37	2.01 %	PVC-U	160 mm	1311.31
MH_3	Round Precast	1200	Ø 1200	-48467.39	2642865.70	1310.49	1308.48	2.01	1.69 %	PVC-U	160 mm	1308.48
MH_4	Round Precast	1200	Ø 1200	-48426.03	2642899.75	1308.69	1307.57	1.11	0.75 %	PVC-U	160 mm	1307.57
MH_43	Round Precast	1200	Ø 1200	-48412.97	2642845.42	1308.31	1307.15	1.16	1.10 %	PVC-U	160 mm	1307.15
MH_34	Round Precast	1200	Ø 1200	-48399.15	2642792.73	1307.71	1306.55	1.16	1.30 %	PVC-U	160 mm	1306.55
MH_35	Round Precast	1200	Ø 1200	-48387.75	2642742.94	1307.05	1305.89	1.16	0.50 %	PVC-U	160 mm	1305.89
MH_9	Round Precast	1200	Ø 1200	-48406.27	2642708.37	1307.18	1305.69	1.49	1.40 %	PVC-U	160 mm	1305.69
MH_10	Round Precast	1200	Ø 1200	-48392.83	2642647.04	1305.97	1304.81	1.16	2.19 %	PVC-U	160 mm	1304.81
MH_11	Round Precast	1200	Ø 1200	-48379.39	2642585.71	1304.13	1303.44	0.69	1.03 %	PVC-U	160 mm	1303.44
MH_12	Round Precast	1200	Ø 1200	-48416.05	2642552.11	1303.69	1302.93	0.77				
MH_49	Round Precast	1200	Ø 1200	-48428.54	2642833.88	1308.97	1307.54	1.43	2.03 %	PVC-U	160 mm	1307.54
MH_43	Round Precast	1200	Ø 1200	-48412.97	2642845.42	1308.31	1307.15	1.16				
MH_38	Round Precast	1200	Ø 1200	-48533.19	2642677.84	1309.13	1307.95	1.18	0.50 %	PVC-U	160 mm	1307.95
MH_32	Round Precast	1200	Ø 1200	-48483.67	2642721.09	1309.36	1307.62	1.74	0.61 %	PVC-U	160 mm	1307.62
MH_33	Round Precast	1200	Ø 1200	-48452.18	2642750.74	1309.09	1307.36	1.73	1.26 %	PVC-U	160 mm	1307.36
MH_46	Round Precast	1200	Ø 1200	-48414.03	2642781.09	1308.41	1306.75	1.66	1.04 %	PVC-U	160 mm	1306.75
MH_34	Round Precast	1200	Ø 1200	-48399.15	2642792.73	1307.71	1306.55	1.16				
MH_39	Round Precast	1200	Ø 1200	-48498.49	2642806.84	1310.78	1309.38	1.40	2.77 %	PVC-U	160 mm	1309.38
MH_33	Round Precast	1200	Ø 1200	-48452.18	2642750.74	1309.09	1307.36	1.73				
MH_48	Round Precast	1200	Ø 1200	-48444.93	2642820.97	1309.40	1308.11	1.29	2.89 %	PVC-U	160 mm	1308.11
MH_46	Round Precast	1200	Ø 1200	-48414.03	2642781.09	1308.41	1306.75	1.66				

Sewer Connections												
Prop	Y-Coord	X-Coord	Length	Dist	Min Ground Level	GL	Max IL Sewer	IL Sewer	IL	ILC to ILS	Type	Min Floor Level
C_2	-48537.005	2642682.478	30.000	3.000	1309.400	1309.402	1308.002	1307.952	1308.258	0.306	Type 1	1309.400
C_4	-48505.233	2642710.229	30.000	3.000	1309.611	1309.690	1308.213	1307.741	1308.469	0.727	Type 3	1309.611
C_5	-48482.635	2642730.313	30.000	3.000	1309.459	1309.499	1308.061	1307.581	1308.317	0.736	Type 3	1309.459
C_6	-48469.994	2642742.214	30.000	3.000	1309.119	1309.364	1307.721	1307.476	1307.977	0.501	Type 2	1309.119
C_7	-48478.901	2642773.691	30.000	3.000	1309.900	1309.995	1308.502	1308.324	1308.758	0.434	Type 1	1309.900
C_9	-48560.839	2642797.493	30.000	3.000	1312.300	1312.437	1310.902	1310.792	1311.158	0.366	Type 1	1312.300
C_10	-48537.214	2642816.893	30.000	3.000	1311.935	1312.070	1310.537	1310.180	1310.793	0.614	Type 2	1311.935
C_13	-48461.621	2642878.224	30.000	3.000	1309.894	1310.077	1308.496	1308.267	1308.752	0.484	Type 2	1309.894
C_14	-48435.581	2642899.663	30.000	3.000	1309.169	1309.108	1307.771	1307.699	1308.027	0.328	Type 1	1309.169
C_18	-48428.833	2642838.641	30.000	2.000	1308.917	1308.967	1307.535	1307.492	1307.759	0.267	Type 1	1308.917
C_19	-48432.010	2642791.240	30.000	4.000	1308.724	1308.828	1307.310	1307.260	1307.598	0.338	Type 1	1308.724
C_20	-48452.911	2642820.387	30.000	4.000	1309.570	1309.609	1308.156	1308.106	1308.444	0.338	Type 1	1309.570
C_22	-48492.521	2642794.905	30.000	1.500	1310.477	1310.511	1309.103	1309.018	1309.311	0.293	Type 1	1310.477
C_23	-48511.240	2642840.317	30.000	4.000	1311.318	1311.448	1309.904	1309.480	1310.192	0.713	Type 3	1311.318
C_26	-48496.389	2642855.714	30.000	2.500	1310.748	1310.748	1309.358	1308.867	1309.590	0.723	Type 3	1310.748

NOTES:

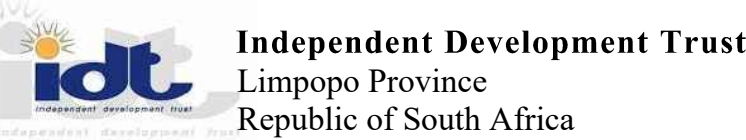
BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

REVISIONS:

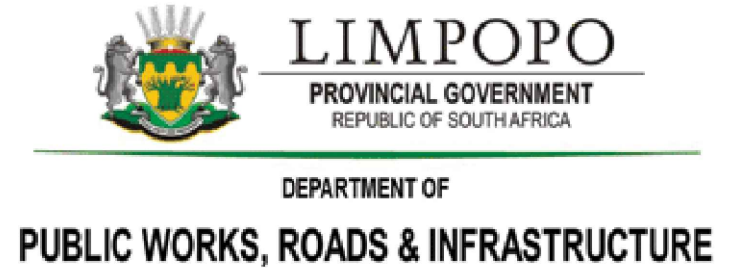
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

SEWER LAYOUT AND LONGSECTION
MH 38 TO MH 34 AND MH 48 TO 46

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

Parliamentary
Village

Dwg No: IDT/BPCE/SE03	Date: 21-03-2025	Revision No: C
--------------------------	---------------------	-------------------

ROADS AND STORMWATER DRAWINGS



PLAN ON ROAD 1
SCALE 1:500

Road List

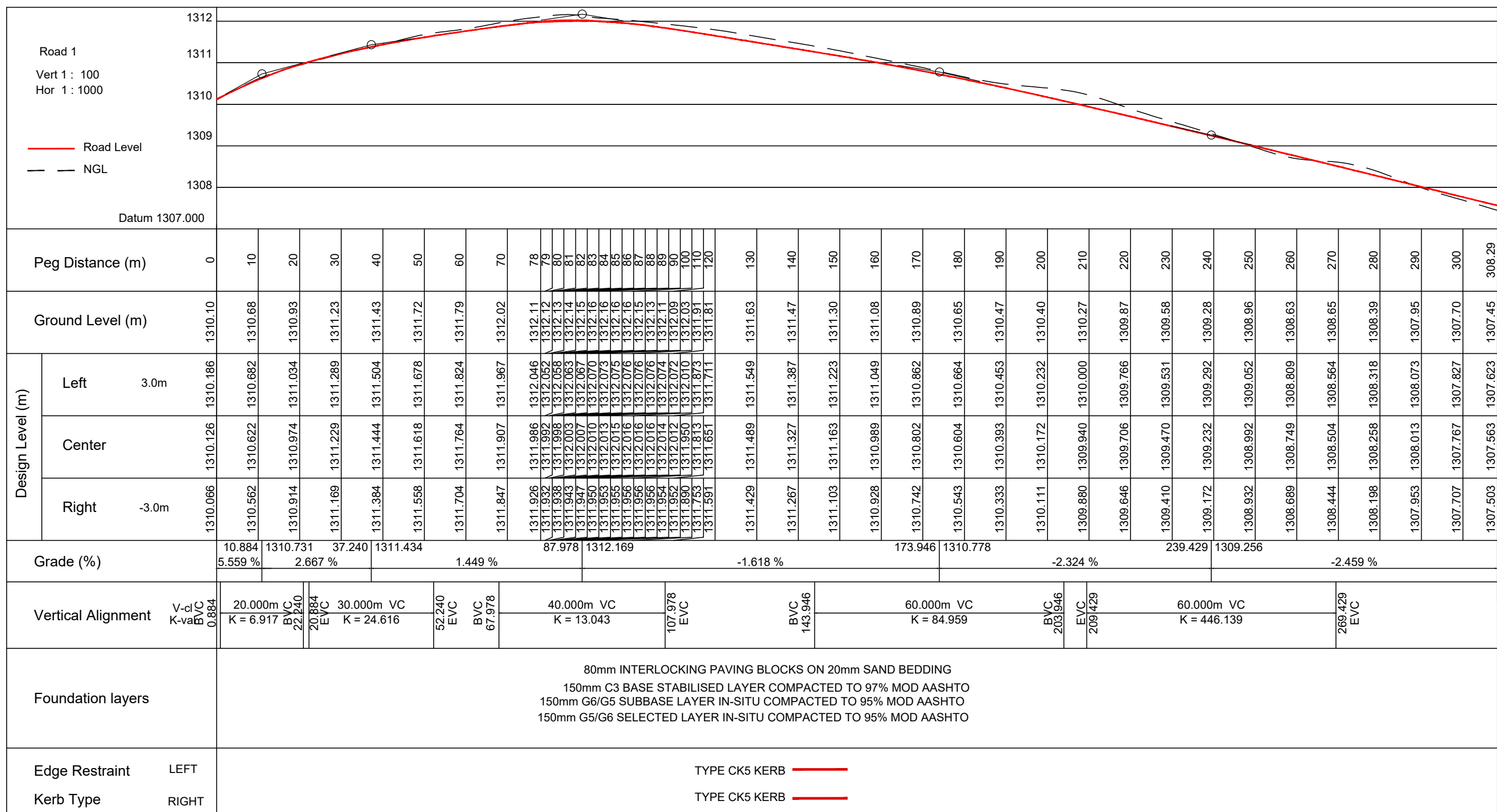
Road1				
Position	SV	Y-Coord	X-Coord	Radius
P10	0	-48567.13	2642693.72	0.00
BCC1	77.99	-48562.62	2642771.58	
P11	83.92	-48562.25	2642777.86	14.38

Road Curve List

Road1						
No	Radius	TR.In	TR.Out	TAN.In	TAN.Out	Deflection
0	0.00	0.00	0.00	0.00	0.00	0°0'00"
1	14.38	0.00	0.00	6.29	6.29	47°17'30"
2	0.00	0.00	0.00	0.00	0.00	0°0'00"

BENCH MARKS Lo29/WGS84

NAME	Y	X
TH1	-48440.588	2642753.825
TH2	-48559.444	2642687.734
TH3	-48706.084	2642705.651
TH5	-48714.683	2642583.549
TH6	-48413.300	2642615.362
TH7	-48528.939	2642602.971
TH8	-48684.521	2642475.042
TH9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472



ROAD 1 LONGITUDINAL SECTION CH 0 - CH 0.308

R9_C2			
Name	Y-Coord	X-Coord	Z-Coord
R9_C216	-48427.990	2642885.174	1309.610
R9_C217	-48427.629	2642884.242	1309.610
R9_C218	-48427.373	2642883.276	1309.610
R9_C219	-48427.226	2642882.287	1309.610
R9_C220	-48427.189	2642881.289	1309.610
R9_C221	-48427.264	2642880.292	1309.610
R9_C222	-48427.448	2642879.309	1309.610
R9_C223	-48427.740	2642878.354	1309.610
R9_C224	-48428.137	2642877.436	1309.610
R9_C225	-48428.632	2642876.568	1309.610
R9_C226	-48429.221	2642875.761	1309.610
R9_C227	-48429.896	2642875.023	1309.610
R9_C228	-48430.648	2642874.365	1309.610
R9_C229	-48431.469	2642873.795	1309.610
R9_C230	-48431.705	2642873.655	1309.610
R9_C231	-48432.598	2642873.206	1309.610
R9_C232	-48433.535	2642872.859	1309.610
R9_C233	-48434.505	2642872.618	1309.610
R9_C234	-48435.496	2642872.486	1309.610
R9_C235	-48436.495	2642872.484	1309.610
R9_C236	-48437.491	2642872.554	1309.610

R9_C2			
Name	Y-Coord	X-Coord	Z-Coord
R9_C237	-48438.470	2642872.753	1309.610
R9_C238	-48439.421	2642873.060	1309.610
R9_C239	-48440.333	2642873.470	1309.610
R9_C240	-48441.193	2642873.979	1309.610
R9_C241	-48441.991	2642874.580	1309.610
R9_C242	-48442.718	2642875.266	1309.610
R9_C243	-48443.365	2642876.029	1309.610
R9_C244	-48443.923	2642876.858	1309.610
R9_C245	-48444.385	2642877.744	1309.610
R9_C246	-48444.746	2642878.676	1309.610
R9_C247	-48445.002	2642879.642	1309.610
R9_C248	-48445.149	2642880.631	1309.610
R9_C249	-48445.186	2642881.629	1309.610
R9_C250	-48445.112	2642882.626	1309.610
R9_C251	-48444.927	2642883.608	1309.610
R9_C252	-48444.635	2642884.564	1309.610
R9_C253	-48444.238	2642885.482	1309.610
R9_C254	-48443.743	2642886.350	1309.610
R9_C255	-48443.154	2642887.157	1309.610
R9_C256	-48442.479	2642887.895	1309.610
R9_C257	-48441.727	2642888.553	1309.610
R9_C258	-48440.906	2642889.123	1309.610
R9_C259	-48440.670	2642889.263	1309.610

R9_C2			
Name	Y-Coord	X-Coord	Z-Coord
R9_C256	-48442.479	2642887.895	1309.610
R9_C257	-48441.727	2642888.553	1309.610
R9_C258	-48440.906	2642889.123	1309.610
R9_C259	-48440.670	2642889.263	1309.610

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C1	-48435.282	2642866.455	1309.317
R15_C2	-48432.418	2642866.902	1309.273
R15_C3	-48428.796	2642868.443	1309.212
R15_C4	-48426.620	2642869.910	1309.172
R15_C5	-48425.872	2642870.573	1309.156
R15_C6	-48425.170	2642871.285	1309.141
R15_C7	-48424.516	2642872.041	1309.125
R15_C8	-48423.915	2642872.840	1309.110
R15_C9	-48423.368	2642873.677	1309.094
R15_C10	-48422.878	2642874.548	1309.079
R15_C11	-48422.447	2642875.451	1309.064
R15_C12	-48422.077	2642876.380	1309.048
R15_C13	-48421.770	2642877.331	1309.033
R15_C14	-48421.527	2642878.301	1309.017
R15_C15	-48421.349	2642879.285	1309.002
R15_C16	-48421.237	2642880.278	1308.986
R15_C17	-48421.192	2642881.277	1308.971

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C28	-48424.602	2642890.982	1308.689
R15_C29	-48425.263	2642891.733	1308.707
R15_C30	-48425.972	2642892.438	1308.726
R15_C31	-48426.727	2642893.094	1308.744
R15_C32	-48427.523	2642893.698	1308.763
R15_C33	-48428.359	2642894.248	1308.781
R15_C34	-48429.228	2642894.741	1308.800
R15_C35	-48430.129	2642895.174	1308.818
R15_C36	-48431.057	2642895.547	1308.837
R15_C37	-48432.007	2642895.858	1308.855
R15_C38	-48432.978	2642896.104	1308.874
R15_C39	-48433.960	2642896.285	1308.892
R15_C40	-48434.953	2642896.400	1308.911
R15_C41	-48435.951	2642896.449	1308.929
R15_C42	-48436.951	2642896.431	1308.948
R15_C43	-48437.947	2642896.346	1308.966
R15_C44	-48438.936	2642896.196	1308.985
R15_C45	-48439.912	2642895.980	1309.003
R15_C46	-48440.871	2642895.699	1309.022
R15_C47	-48441.810	2642895.355	1309.040
R15_C48	-48442.724	2642894.949	1309.059
R15_C49	-48443.609	2642894.483	1309.077
R15_C50	-48444.460	2642893.959	1309.096
R15_C51	-48445.275	2642893.380	1309.114
R15_C52	-48446.050	2642892.748	1309.133
R15_C53	-48446.780	2642892.065	1309.151
R15_C54	-48447.464	2642891.336	1309.170
R15_C55	-48448.097	2642890.562	1309.188

R15_C			
Name	Y-Coord	X-Coord	Z-Coord
R15_C56	-48448.678	2642889.748	1309.207
R15_C57	-48449.203	2642888.897	1309.225
R15_C58	-48449.670	2642888.013	1309.244
R15_C59	-48450.077	2642887.100	1309.262
R15_C60	-48450.422	2642886.162	1309.281
R15_C61	-48450.704	2642885.202	1309.299
R15_C62	-48450.922	2642884.227	1309.318
R15_C63	-48451.074	2642883.238	1309.336
R15_C64	-48451.159	2642882.242	1309.355
R15_C65	-48451.179	2642881.243	1309.373
R15_C66	-48451.131	2642880.244	1309.392
R15_C67	-48451.017	2642879.251	1309.410
R15_C68	-48450.838	2642878.267	1309.410
R9_C21	-48440.670	2642889.263	1309.610
R9_C22	-48439.777	2642889.712	1309.610
R9_C23	-48438.840	2642890.059	1309.610
R9_C24	-48437.870	2642890.300	1309.610
R9_C25	-48436.879	2642890.432	1309.610
R9_C26	-48435.680	2642890.454	1309.610
R9_C27	-48434.885	2642890.364	1309.610
R9_C28	-48433.905	2642890.165	1309.610
R9_C29	-48432.954	2642889.858	1309.610
R9_C210	-48432.043	2642889.448	1309.610
R9_C211	-48431.182	2642888.939	1309.610
R9_C212	-48430.384	2642888.338	1309.610
R9_C213	-48429.657	2642887.652	1309.610
R9_C214	-48429.010	2642886.889	1309.610
R9_C215	-48428.453	2642886.060	1309.610

NOTES:

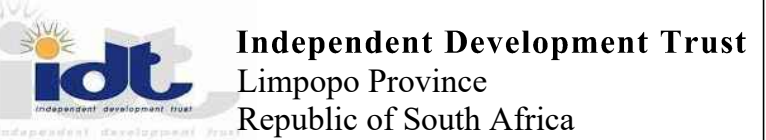
REVISIONS:

A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

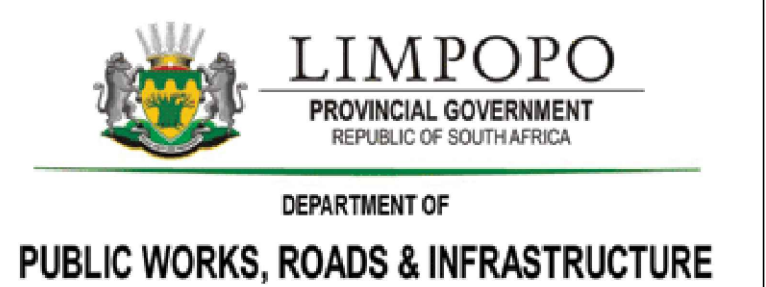
LEGEND:

- 80mm INTERLOCKING PAVERS
- GUARD RAILS
- CONCRETE KERBS

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

ROAD 1 LAYOUT AND
LONGSECTION

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

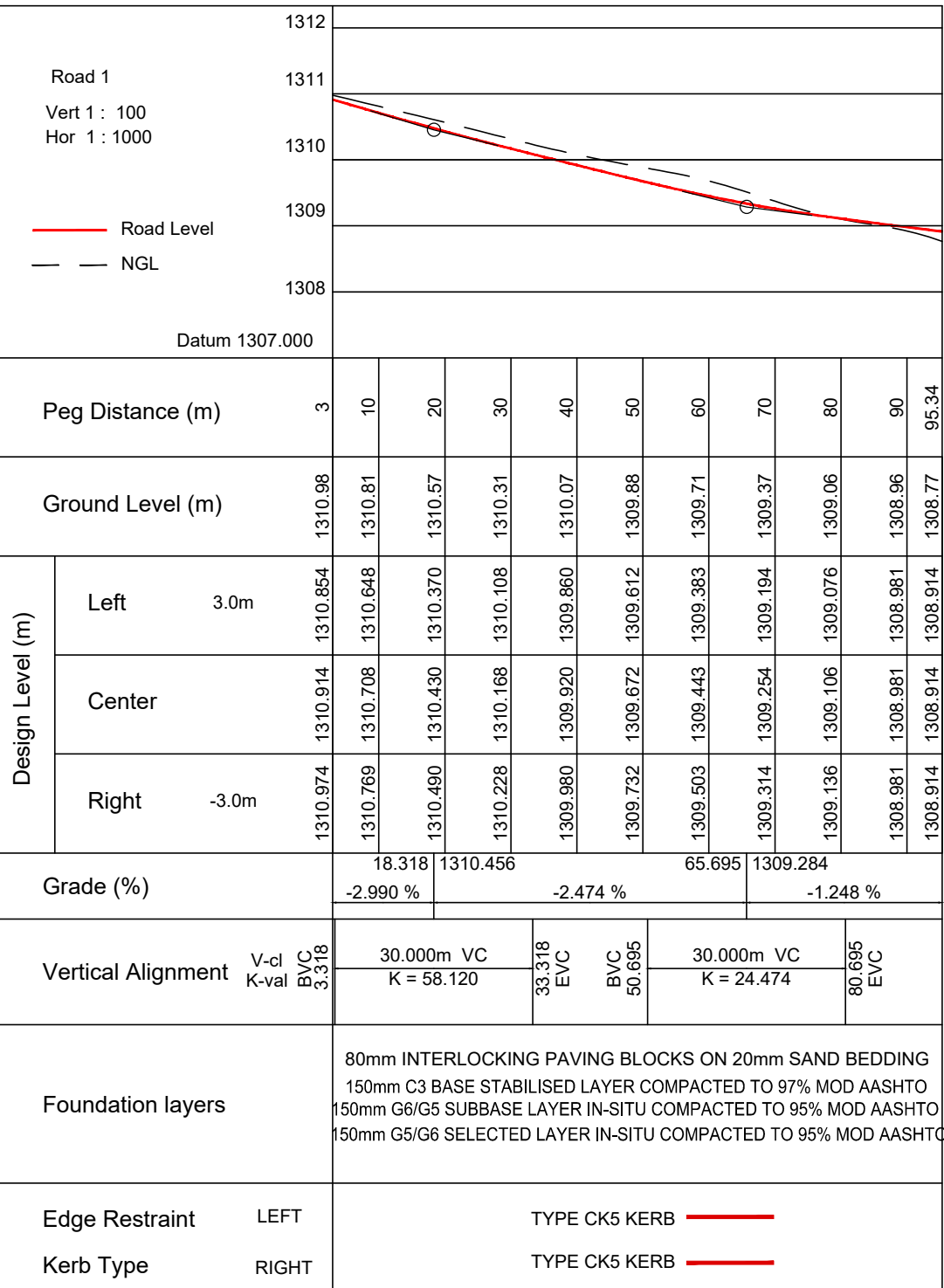
Project No:

Parliamentary
Village

Dwg No: IDT/BPCE/RD01	Date: 21-03-2025	Revision No: C
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PLAN ON ROAD 2
SCALE 1:500



ROAD 2 LONGITUDINAL SECTION CH 0 - CH 0.095

Road List				
Road2				
Position	SV	Y-Coord	X-Coord	Radius
P10	3	-48500.81	2642824.42	0.00
P11	95.34	-48442.21	2642753.06	

Road2					
No	Radius	TR.In	TR.Out	TAN.In	TAN.Out
0	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00

BENCH MARKS Lo29/WGS84		
NAME	Y	X
TH1	-48440.588	2642753.825
TH2	-48559.444	2642687.734
TH3	-48706.084	2642705.651
TH5	-48714.683	2642583.549
TH6	-48413.300	2642615.362
TH7	-48528.939	2642602.971
TH8	-48684.521	2642475.042
TH9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

NOTES:

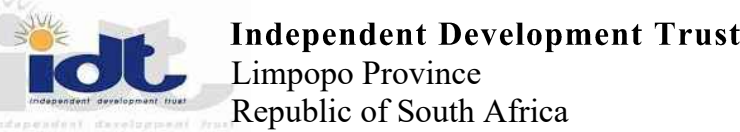
REVISIONS:

A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

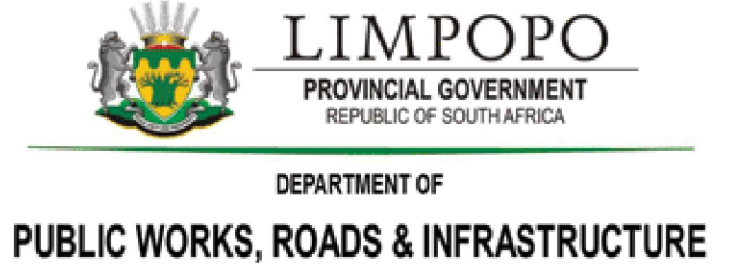
LEGEND:

- 80mm INTERLOCKING PAVERS
- GUARD RAILS
- CONCRETE KERBS

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

ROAD 2 LAYOUT AND
LONGSECTION

Designed:

LR

Drawn:

KN

Scale:

AS SHOWN

Checked:

LR

Project No:

Parliamentary
Village

Dwg No:

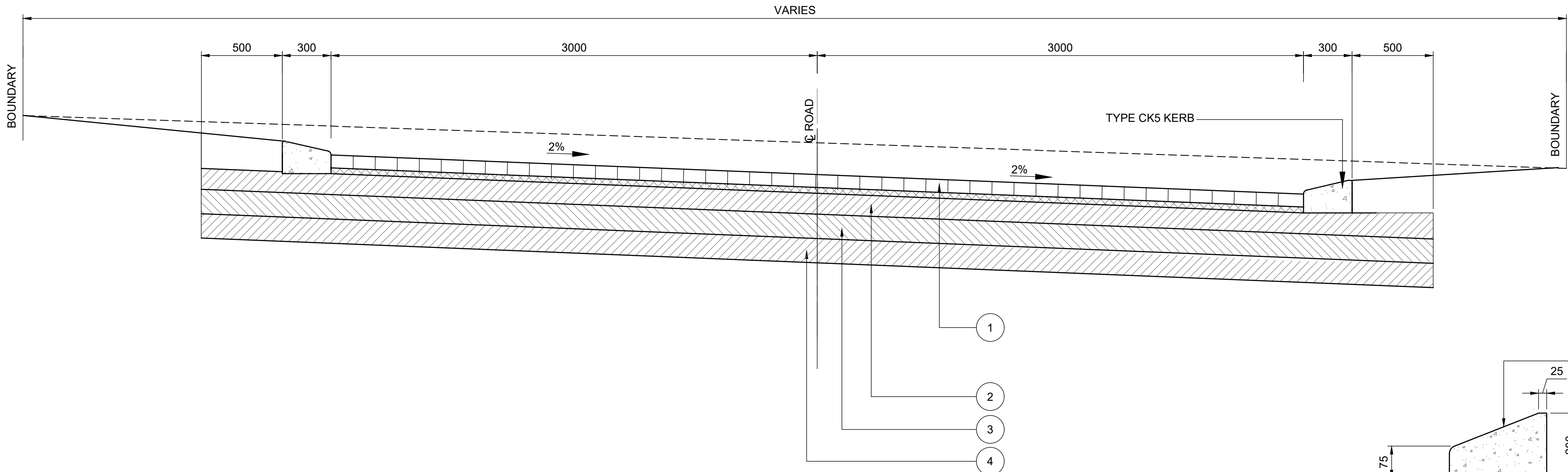
IDT/BPCE/RD02

Date:

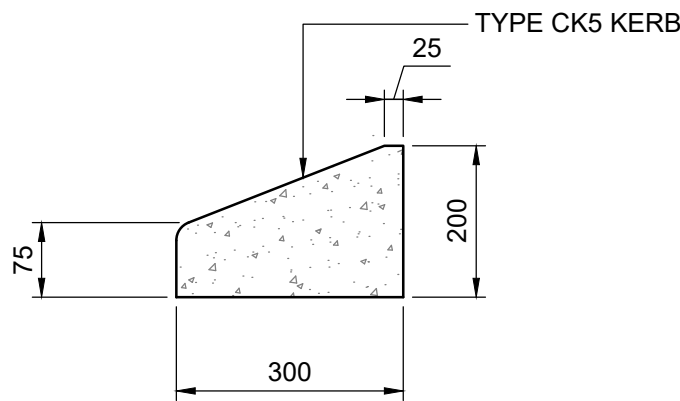
21-03-2025

Revision No:

C



TYPICAL PAVEMENT DESIGN
ROAD 1 AND 2



TYPE CK5 KERB

NOTES AND SPECIFICATIONS

GENERAL

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
2. ALL DIMENSIONS ARE IN MILLIMETRES. (UNLESS OTHERWISE SPECIFIED).
3. DO NOT SCALE FROM THESE DRAWINGS.
4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS AND SABS 1200.
6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS.(IF APPLICABLE).
7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS AND SABS 1200.
8. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

PAVEMENT SPECIFICATIONS - 80 mm PAVING BLOCKS	
LAYER	DESCRIPTION - ROAD 1 AND ROAD 2
①	80mm / 25 MPa PAVING BLOCKS ON COMPACTED 20mm SAND BEDDING. BLOCKS TYPE S-A TO SABS 1058 - 1985. WEEDKILLER HYVER X OR SIMILAR MIXED INTO SAND BEDDING
②	150mm C3 CEMENT BASE LAYER COMPACTED TO 98% MOD. AASHTO DENSITY MIN. UCS: 1000 KPA AT 98% MOD. AASHTO DENSITY MIN. GRADING MODULUS OF 1.5 MAX. P.I. OF 6.0
③	150mm G6/G5 UPPER SUBBASE COMPACTED TO 96% MOD. AASHTO DENSITY MIN. UCS: 1000 KPA AT 96% MOD. AASHTO DENSITY MIN. GRADING MODULUS OF 1.5 MAX. P.I. OF 6.0
④	150mm G6/G5 SELECED LAYER COMPACTED TO 93% MOD. AASHTO DENSITY MIN. CBR: 15 AT 95% MOD. AASHTO DENSITY MIN. GRADING MODULUS OF 0.75 MAX. P.I. OF 3GM + 10

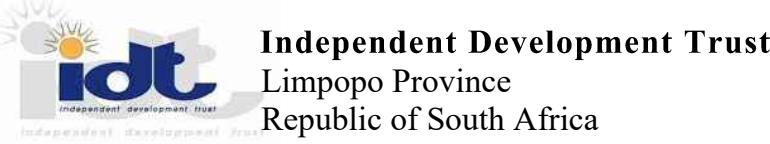
NOTES:

REVISIONS:

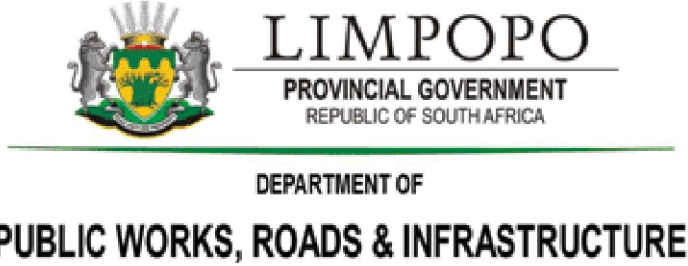
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

ROAD LAYERWORKS

Designed: LR

Drawn: KN

Scale: AS SHOWN

Checked: LR

Project No:

Parliamentary
Village

Dwg No:

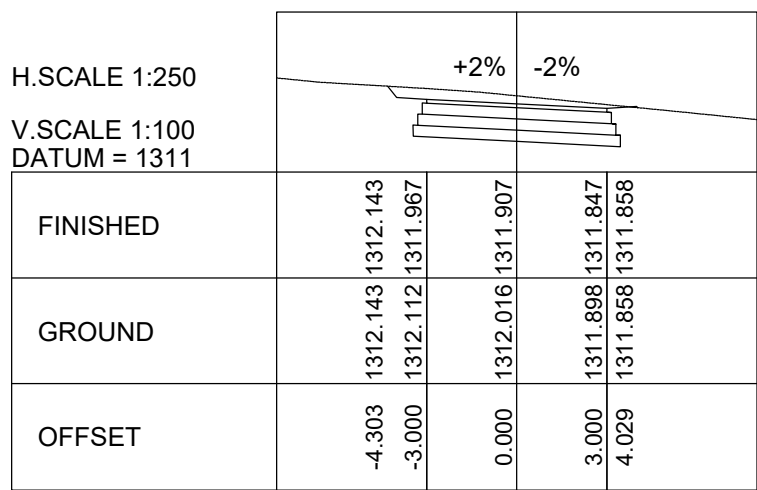
IDT/BPCE/RD03

Date:

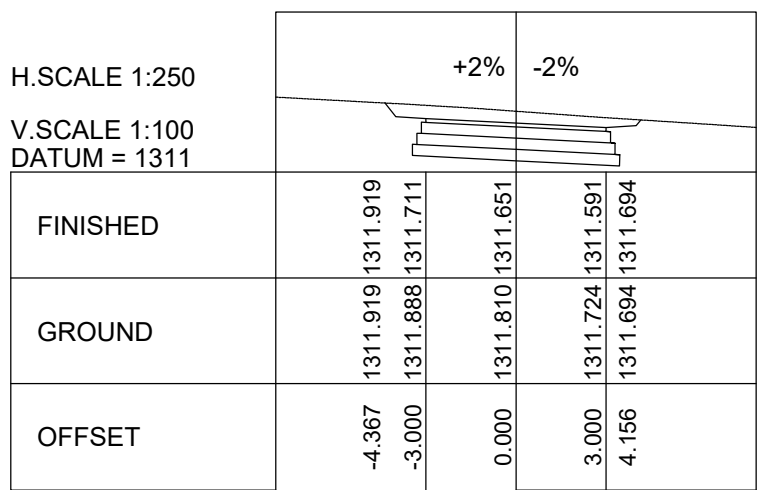
21-03-2025

Revision No:

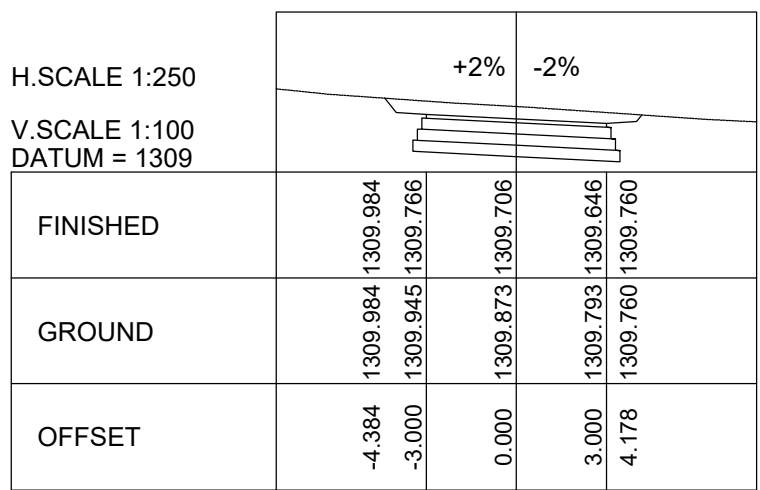
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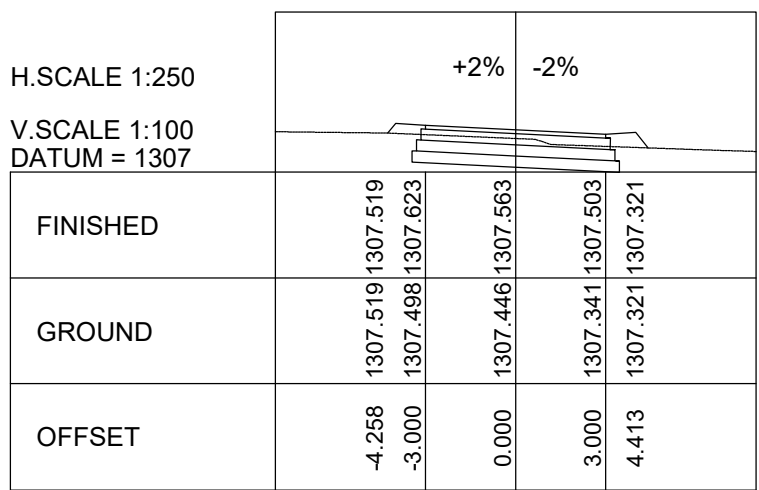
Peg Distance (m) 70m



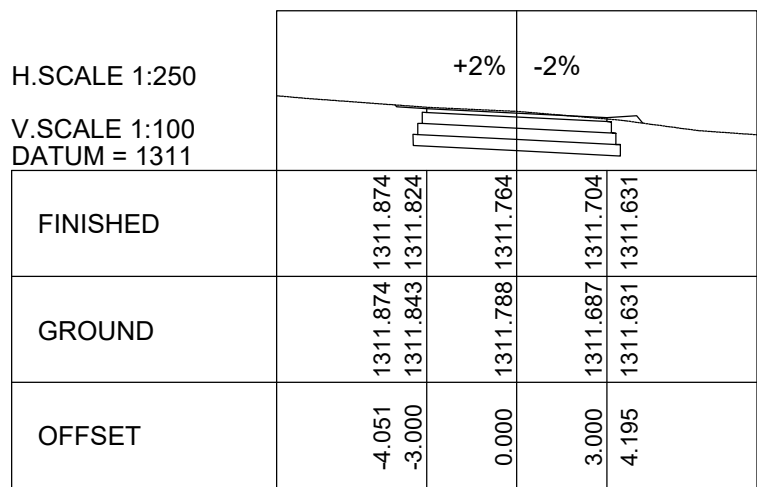
Peg Distance (m) 120m



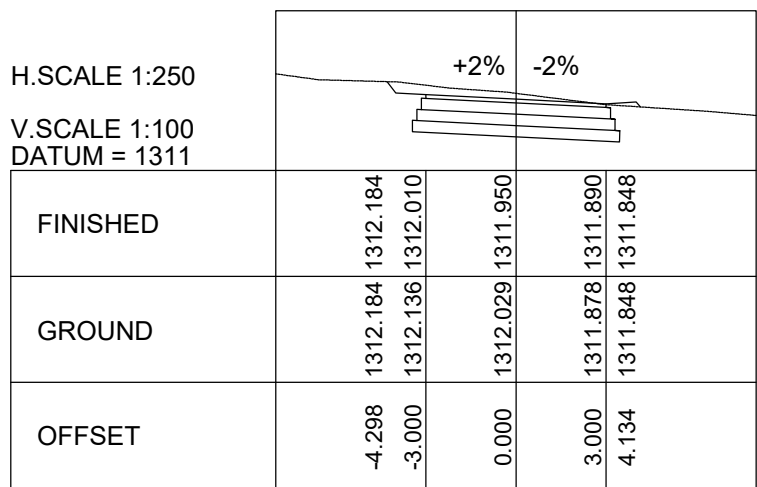
Peg Distance (m) 220m



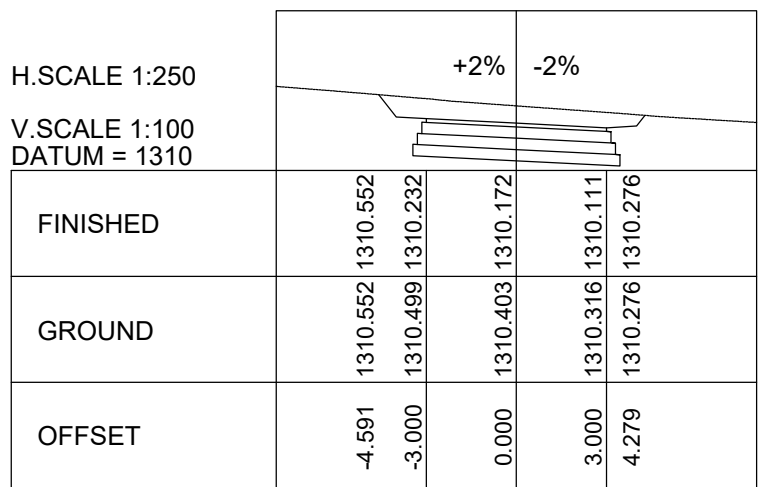
Peg Distance (m) 308m



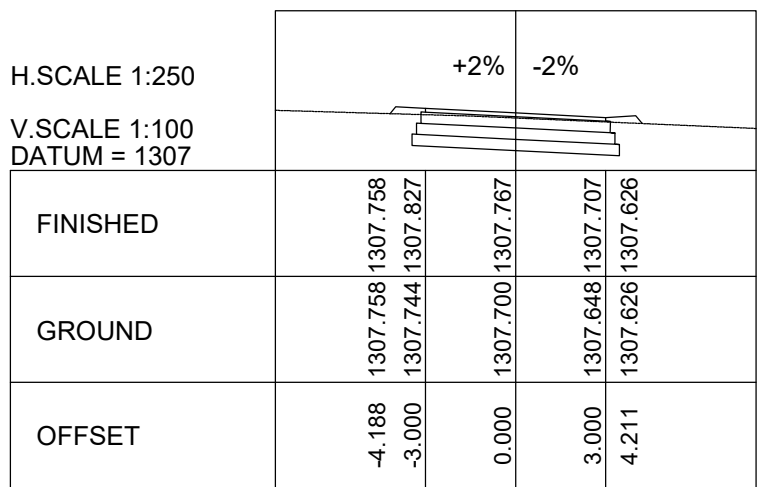
Peg Distance (m) 60m



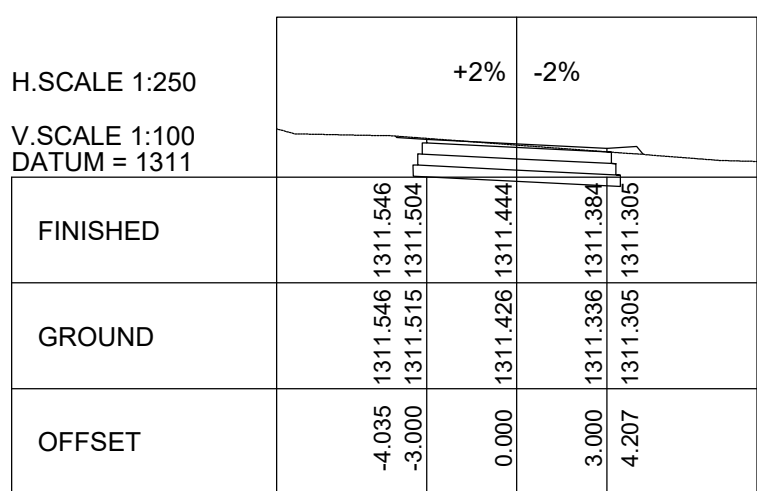
Peg Distance (m) 100m



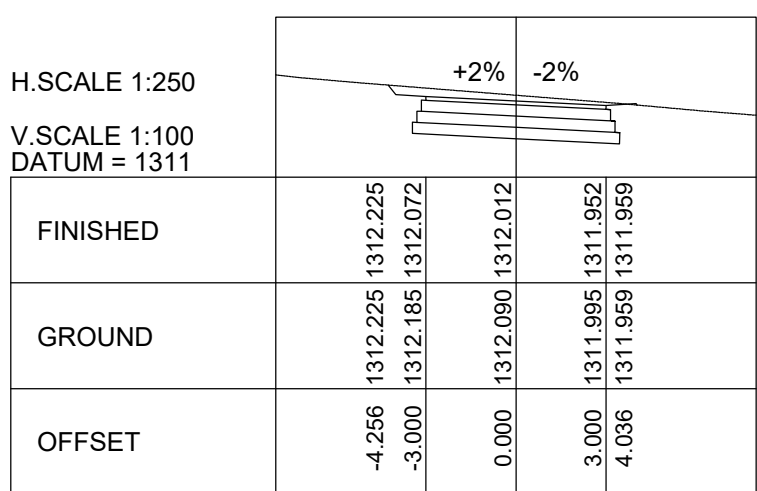
Peg Distance (m) 200m



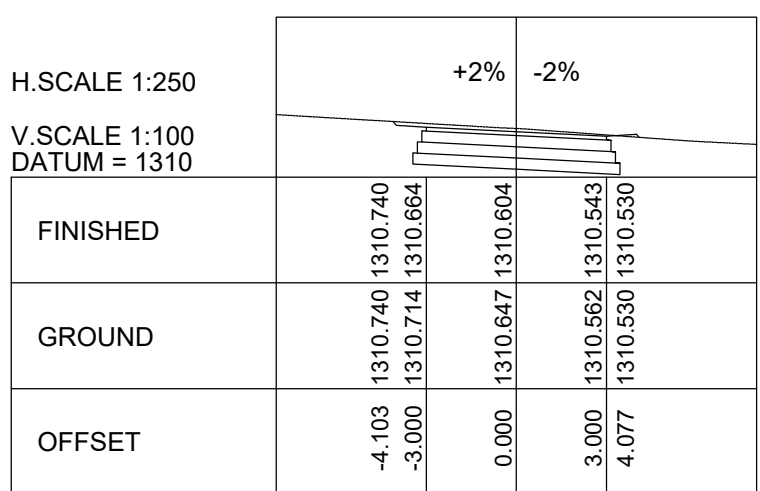
Peg Distance (m) 300m



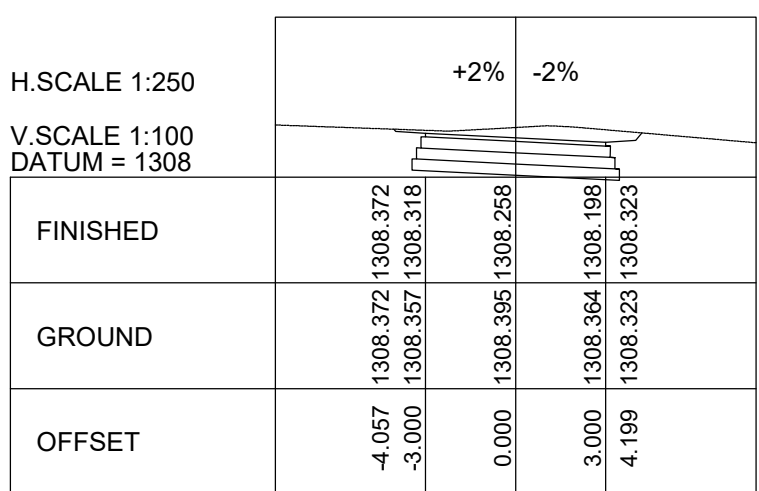
Peg Distance (m) 40m



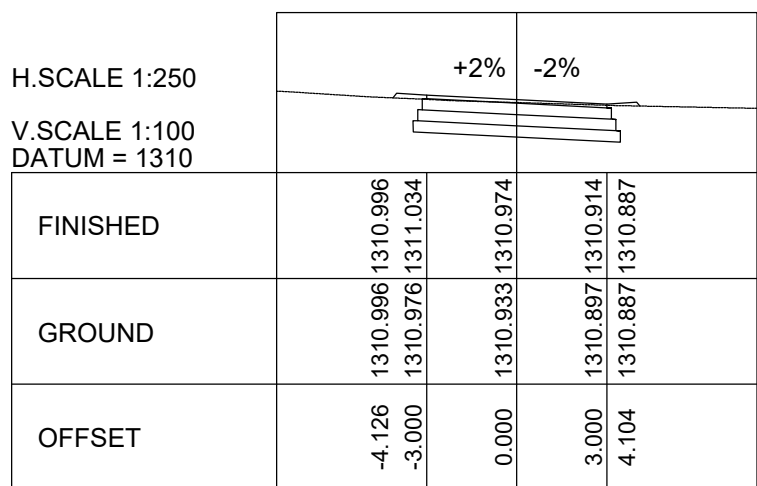
Peg Distance (m) 90m



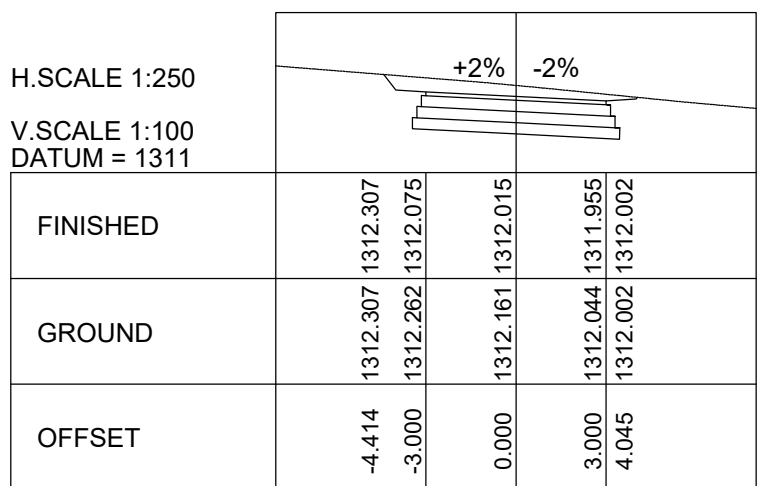
Peg Distance (m) 180m



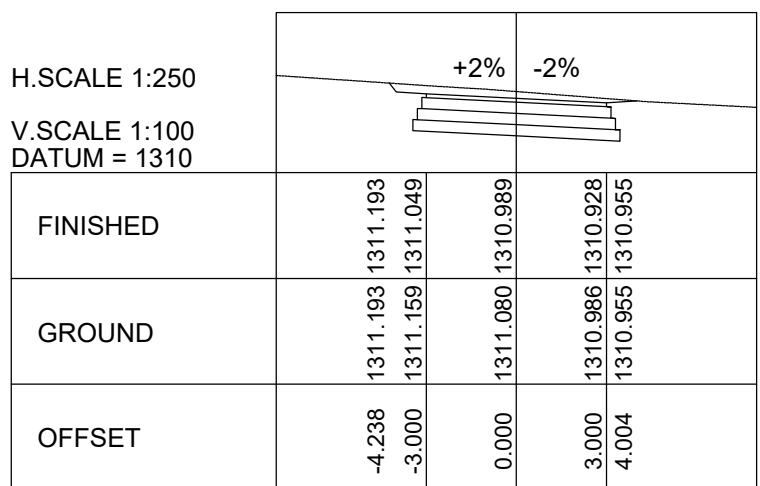
Peg Distance (m) 280m



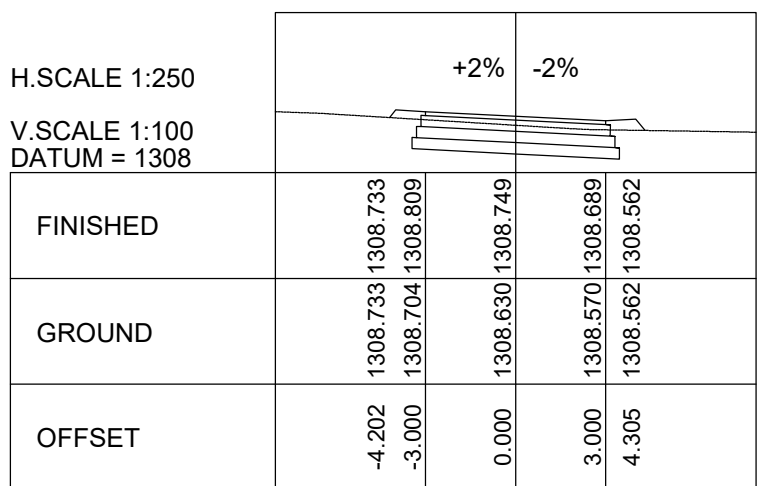
Peg Distance (m) 20m



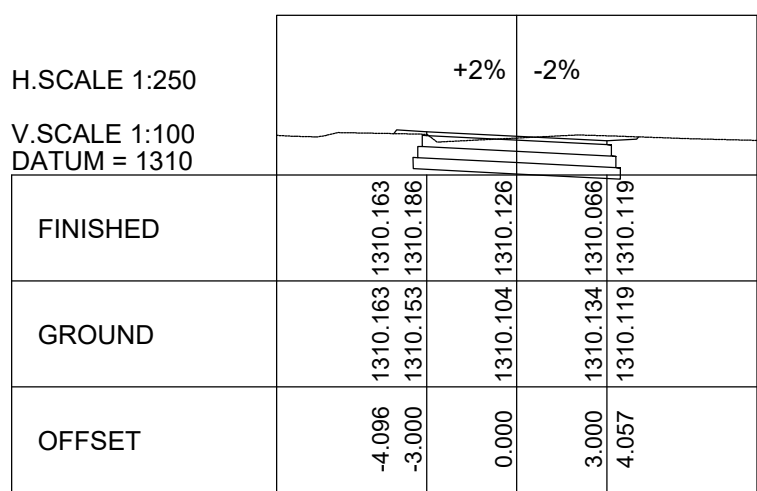
Peg Distance (m) 85m



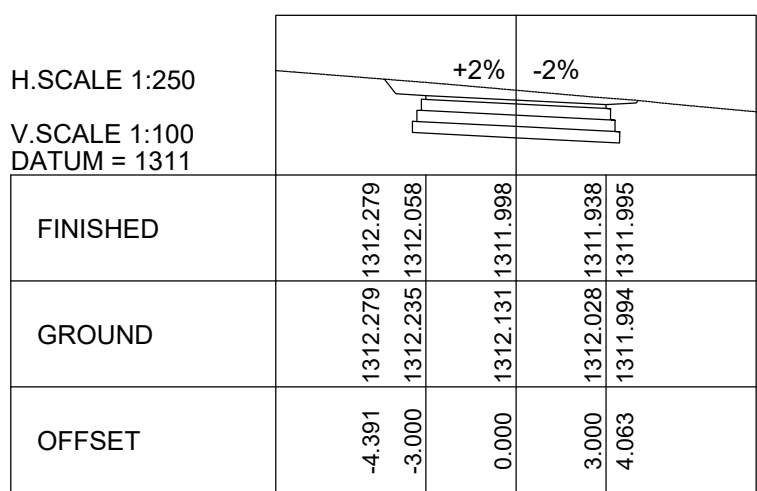
Peg Distance (m) 160m



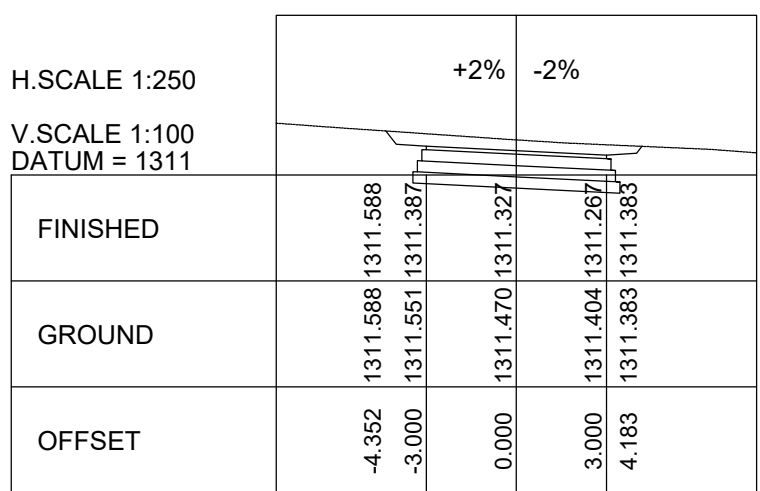
Peg Distance (m) 260m



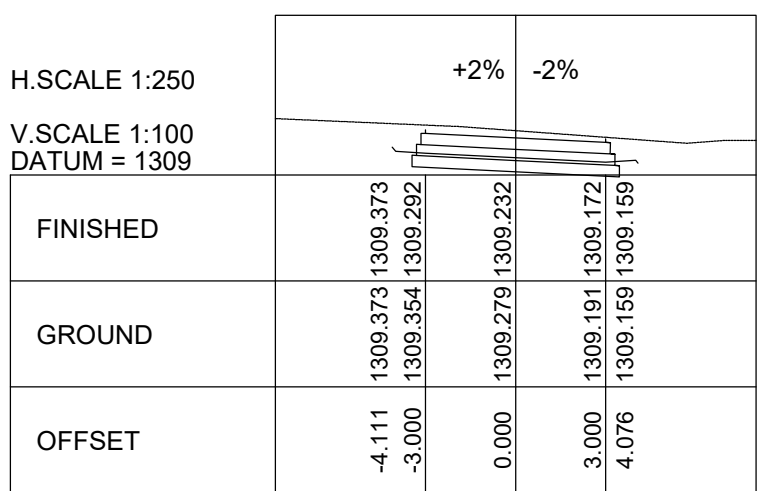
Peg Distance (m) 0m



Peg Distance (m) 80m



Peg Distance (m) 140m



Peg Distance (m) 240m

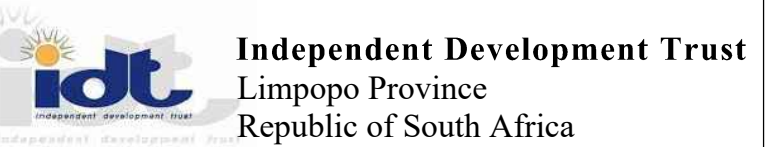
NOTES:

REVISIONS:

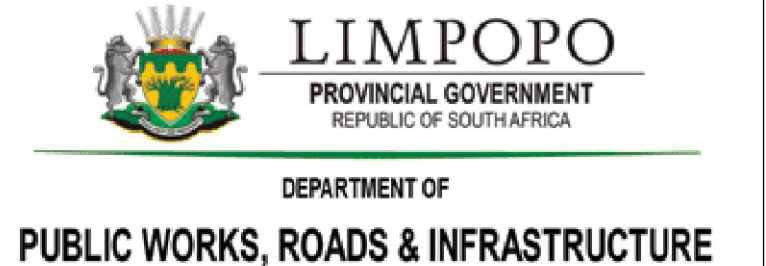
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

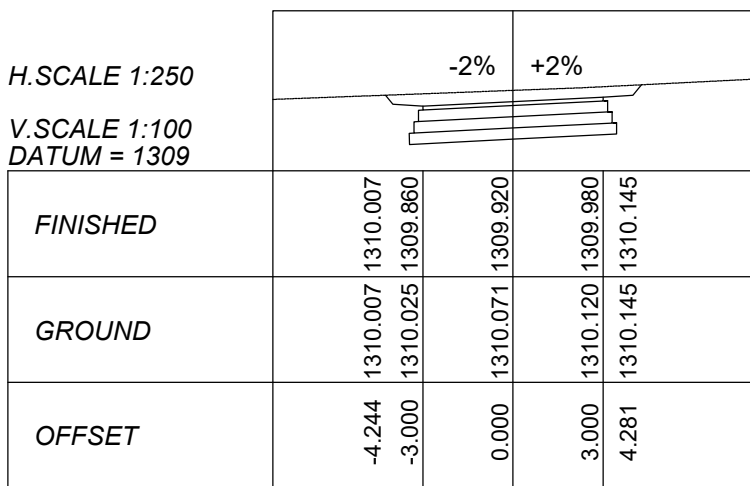
ROAD 1 CROSS LONGSECTION
CH 0km TO CH 0.308km

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

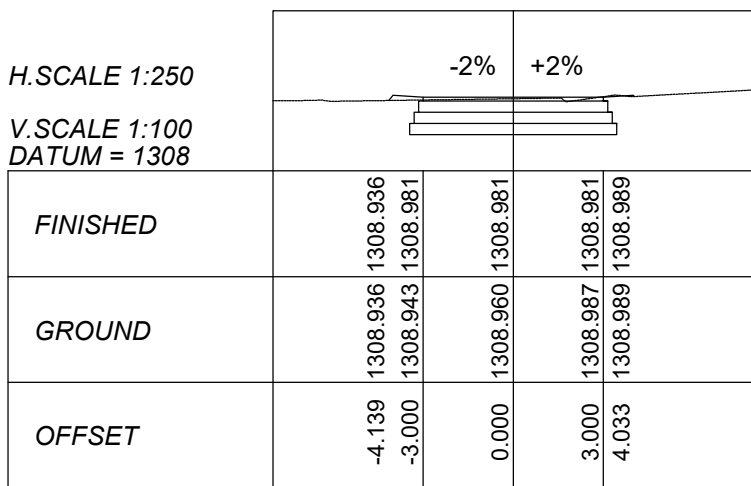
Project No:

Parliamentary
Village

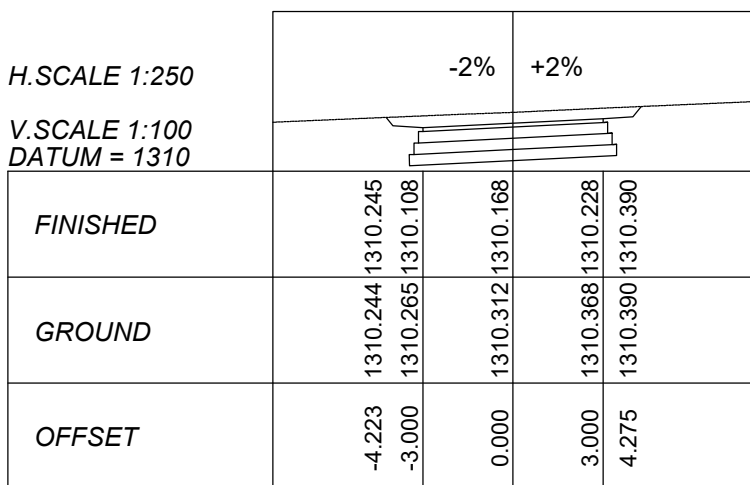
Dwg No: IDT/BPCE/RD05	Date: 21-03-2025	Revision No: C
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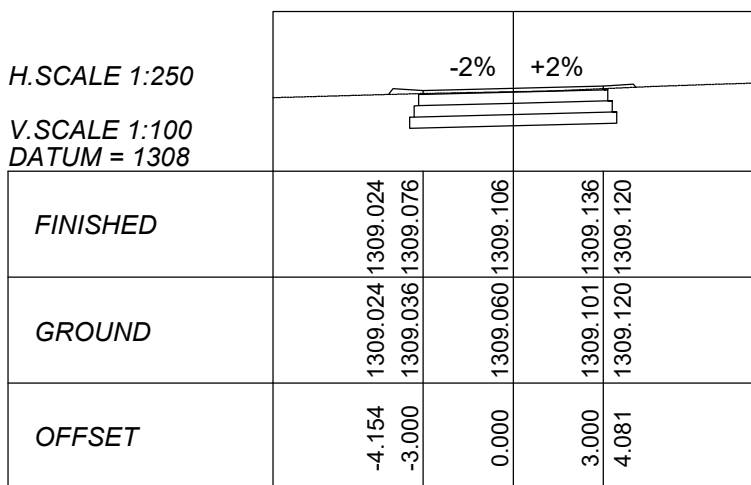
Peg Distance (m) 40m



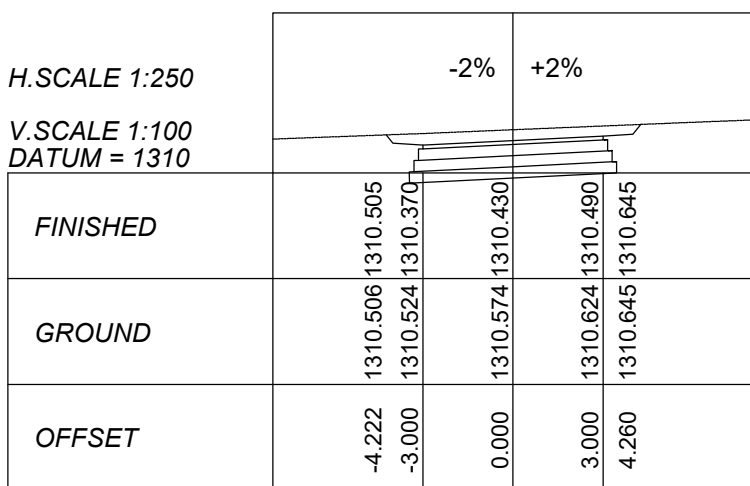
Peg Distance (m) 90m



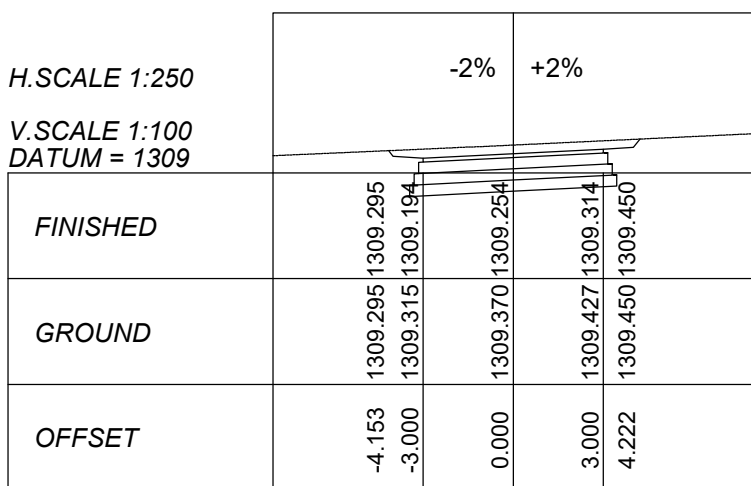
Peg Distance (m) 30m



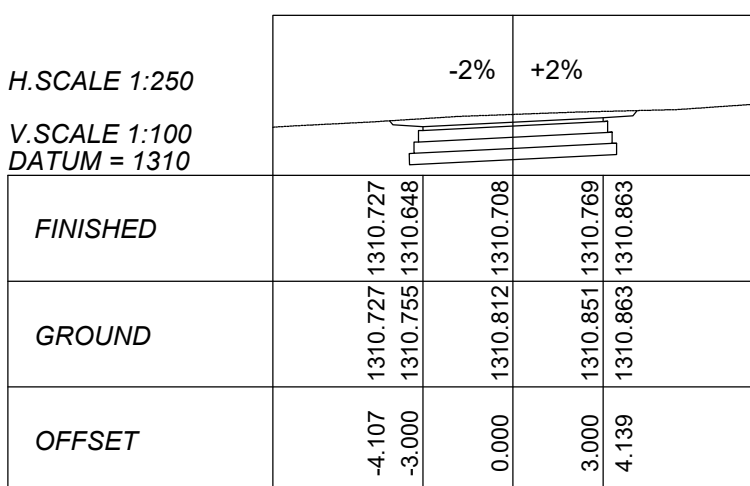
Peg Distance (m) 80m



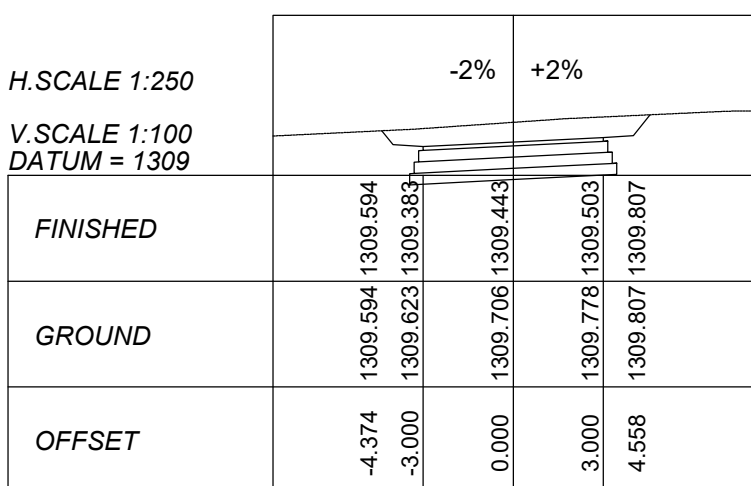
Peg Distance (m) 20m



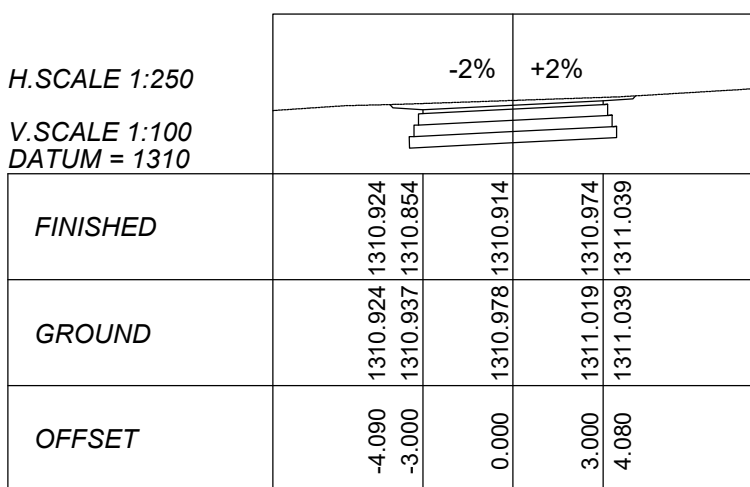
Peg Distance (m) 70m



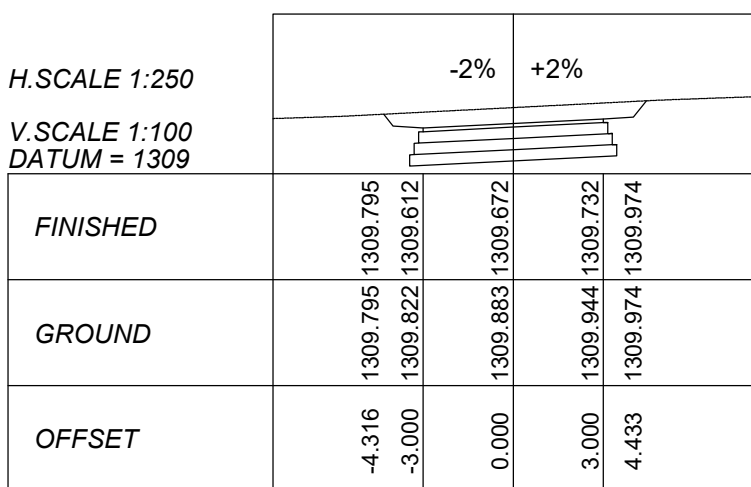
Peg Distance (m) 10m



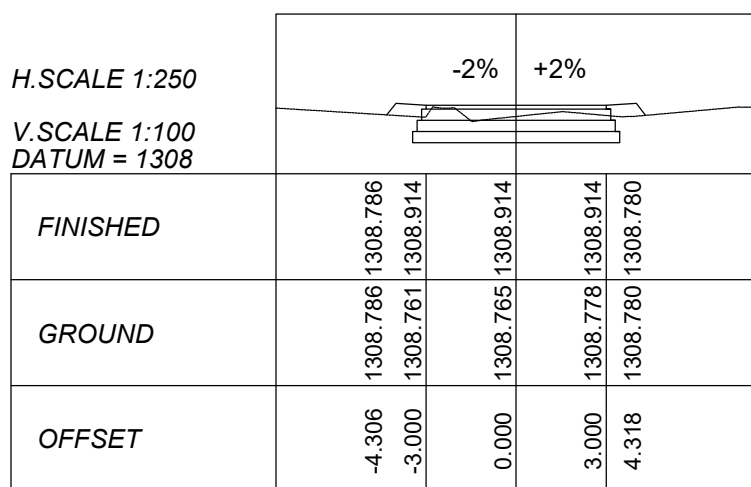
Peg Distance (m) 60m



Peg Distance (m) 3m



Peg Distance (m) 50m



Peg Distance (m) 95m

NOTES:

REVISIONS:		
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



BIG PUN
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:
**ROAD 2 CROSS LONGSECTION
CH 0.03km TO CH 0.95km**

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/RD06	Date: 21-03-2025	Revision No: C
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PLAN ON STORMWATER SMH 1 TO SMH 7
SCALE 1:1000

BENCH MARKS Lo29/WGS84		
NAME	Y	X
THT1	-48440.588	2642753.825
THT2	-48559.444	2642687.734
THT3	-48706.084	2642705.651
THT5	-48714.683	2642583.549
THT6	-48413.300	2642615.362
THT7	-48528.939	2642602.971
THT8	-48684.521	2642475.042
THT9	-48560.126	2642514.207
BASE1X	-48492.023	2642725.335
STAF	-48415.737	2642746.224
BASE1	-48485.268	2642732.958
TRIG65	-50182.760	2643850.472

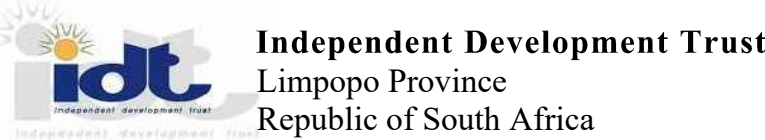
NOTES:

REVISIONS:

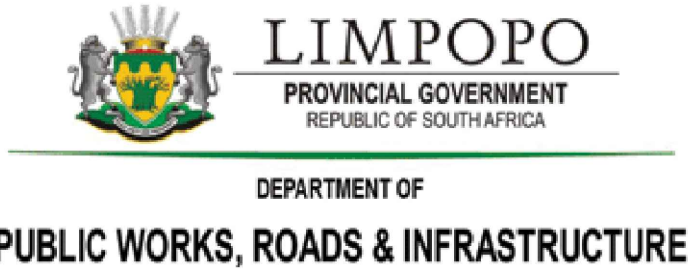
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

STORMWATER LAYOUT
AND LONGSECTION

Designed:

LR

Drawn:

KN

Scale:

AS SHOWN

Checked:

LR

Project No:

Parliamentary
Village

Dwg No:

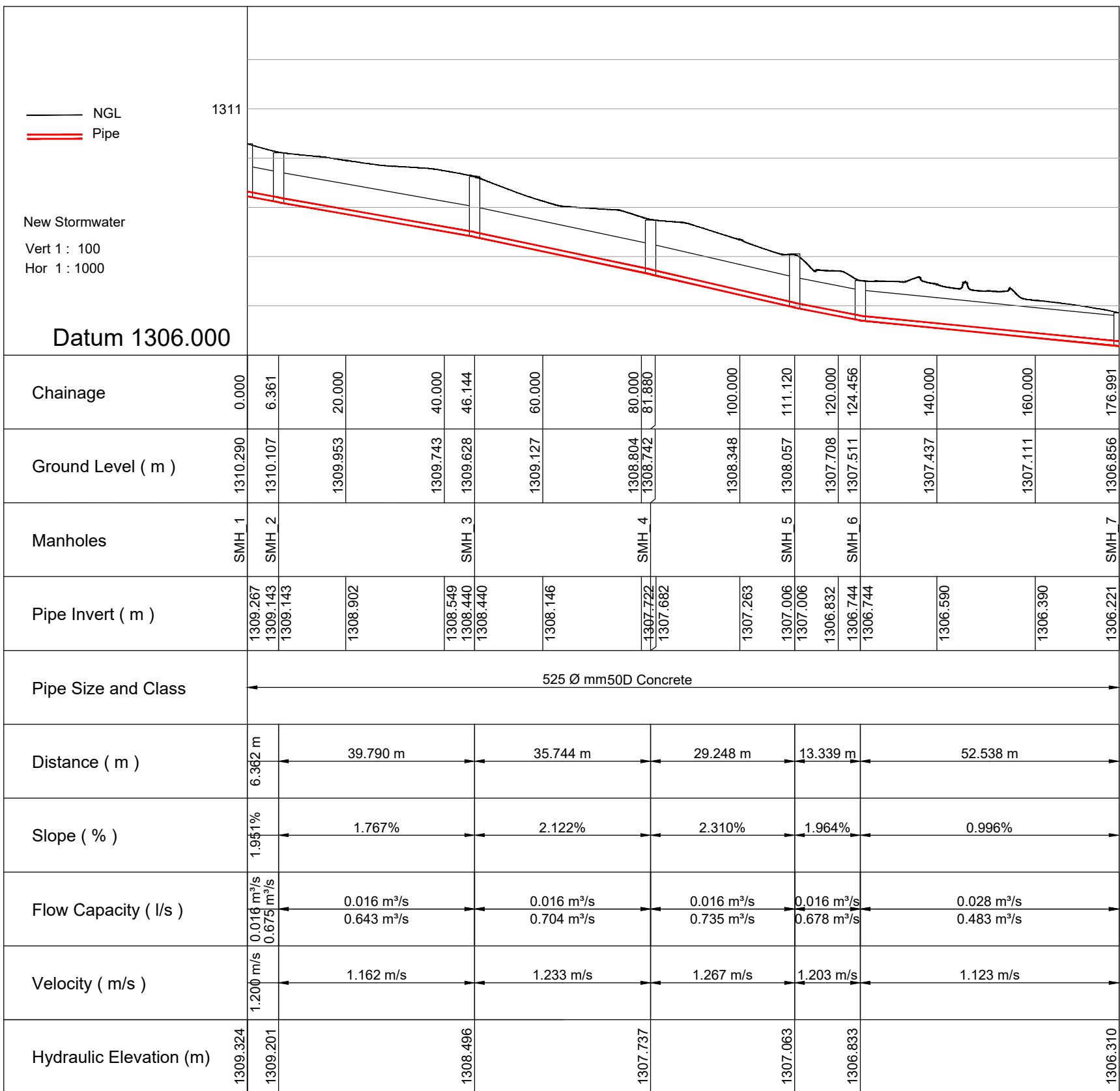
IDT/BPCE/SW01

Date:

21-03-2025

Revision No:

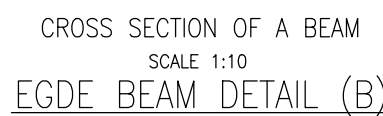
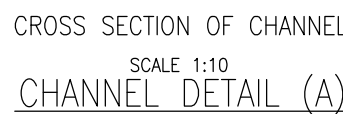
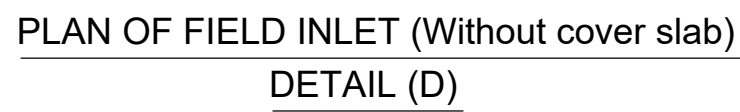
C



NEW 525Ø 50D STORMWATER PIPE LONGITUDINAL SECTION MANHOLES SMH1 TO SMH7

Stormwater Schedule													
Name	Node Type	Node Size	Y-Coord	X-Coord	Cover	Inlet	Depth	Slope	Type	Size	Level In	Level Out	
SMH_1	Default	Ø 0	-48498.94	2642755.62	1310.29	1309.27	1.02	1.95 %	50D Concrete	525 mm	1309.27	1309.14	
SMH_2	Default	Ø 0	-48492.70	2642754.37	1310.11	1309.14	0.96	1.77 %	50D Concrete	525 mm	1309.14	1308.44	
SMH_3	Default	Ø 0	-48462.38	2642780.13	1309.63	1308.44	1.19	2.12 %	50D Concrete	525 mm	1308.44	1307.68	
SMH_4	Default	Ø 0	-48429.47	2642766.22	1308.74	1307.68	1.06	2.31 %	50D Concrete	525 mm	1307.68	1307.01	
SMH_5	Default	Ø 0	-48406.31	2642784.08	1308.06	1307.01	1.05	1.96 %	50D Concrete	525 mm	1307.01	1306.74	
SMH_6	Default	Ø 0	-48393.11	2642785.96	1307.51	1306.74	0.77	1.00 %	50D Concrete	525 mm	1306.74	1306.22	
SMH_7	Default	Ø 0	-48381.42	2642734.75	1306.86	1306.22	0.63						

STANDARD DRAWINGS DRAWINGS



NOTES

1. ALL CONCRETE CHANNELS AND OTHER DRAINAGE STRUCTURES ON THIS PLAN TO BE CAST USING CLASS 30/19 CONCRETE
2. TYPES 'E' AND 'F' CONCRETE MUST BE CAST IN ALTERNATIVE LENGTHS OF 2.0 m MAXIMUM WITH EXPANSION JOINTS EVERY 5th PANEL (10 m)
3. ALL EXPOSED CORNERS MUST BE ROUNDED OFF TO A RADIUS OF 10 mm
4. THE CLASS OF SURFACE FINISH IS INDICATED AS 'f1' OR 'U2'
5. V MIN. = 150mm (PREFERRED = 300mm)

NOTES:

REVISIONS:

LEGEND:

Implementing Client:



User Client:



DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

STANDARD DRAWING GABIONS AND STONE PITCHING DETAILS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

Parliamentary Village

Dwg No:	Date:	Revision No:
DT/BPCE/SD01	25-11-2024	C

GENERAL NOTES:

1. ALL DIMENSIONS IN mm
2. PREFABRICATED CONCRETE PORTAL UNITS TO COMPLY WITH SABS 886.
3. FOR PORTAL CULVERTS WITH A NOMINAL HEIGHT=1200, THE WINGWALLS SHALL BE PROVIDED WITH 250 WEIGHTHOLES AND 200x20x150 NON-FINES CONCRETE BLOCKS AT 1200c/c.
4. ALL VISIBLE CORNERS MUST BE CHAMFERED 25mm x 25mm.
5. COVER:
 - FLOR SLAB & FOOTING = 50mm
 - WINGWALLS = 40mm
6. POLYETHYLENE SHEET 0.15mm THICK TO BE PLACED UNDER ALL WINGWALL FOOTINGS AND INLET SLABS.
7. THE UPPER LEVEL OF THE ALLWAYS PASSES THROUGH A POINT 150mm BELOW THE TOP OF THE HEAD WALL.
8. THE MAXIMUM SLOPE OF THE EARTHWORKS SURROUNDING A CULVERT INLET AND OUTLET SHALL BE 1:2.
9. ALL CULVERTS TO BE INSTALLED USING THE TRENCHED METHOD.

LOADING

NOMINAL LOADS

DENSITY OF SOIL 20 kN/m^3
HORIZONTAL EARTH PRESSURE $6 \text{ kN/m}^2/\text{m}^2$
HORIZONTAL LIVE LOAD SURCHARGE 4 kN/m^2

LOAD FACTORS

DESIGN LOAD S =	XF3 x	XFL x	NOMINAL LOAD
	XF3	XFL	
DEAD LOAD	1.15	1.2	
LIVE LOAD	1.15	1.5	

EARTH PRESSURE

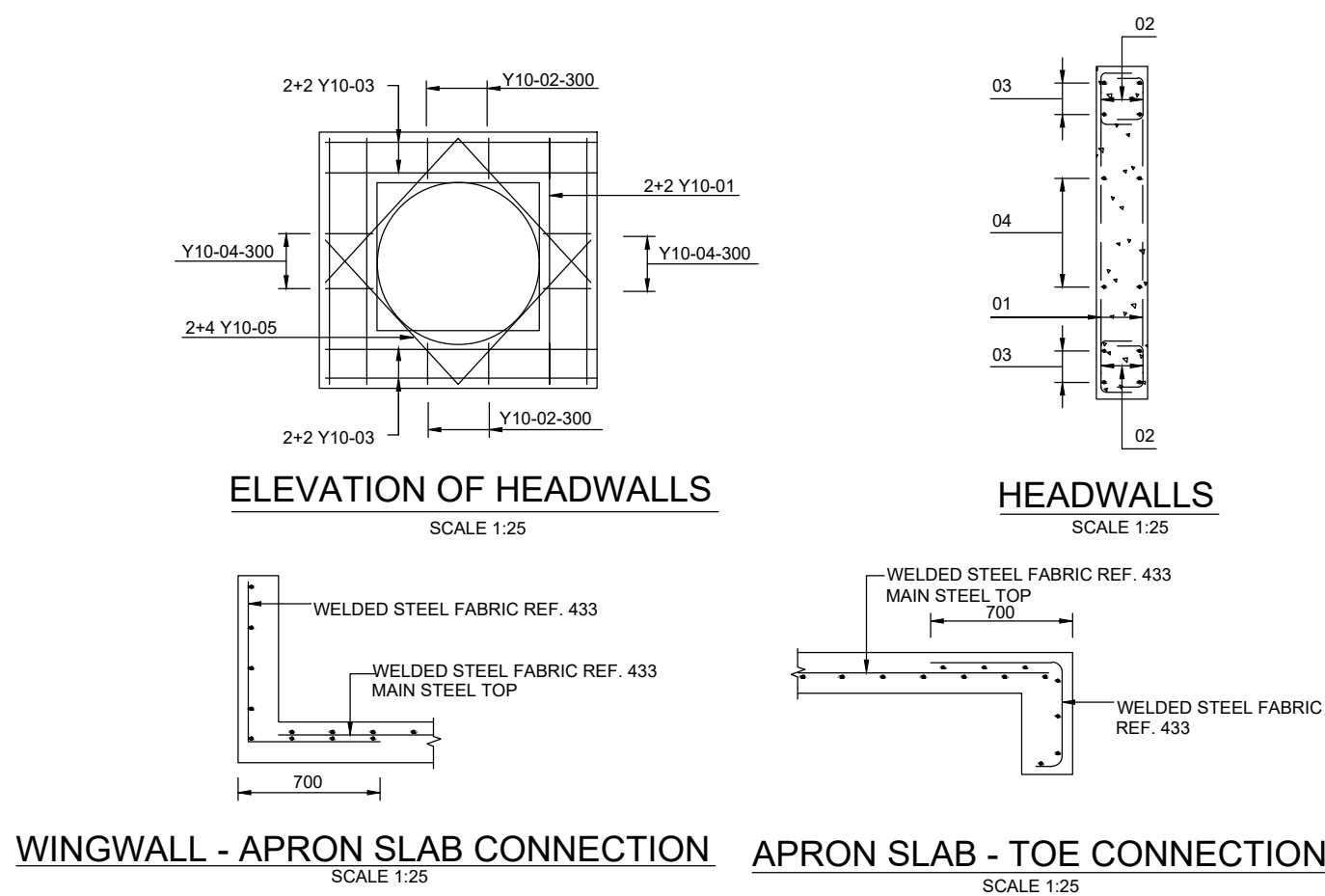
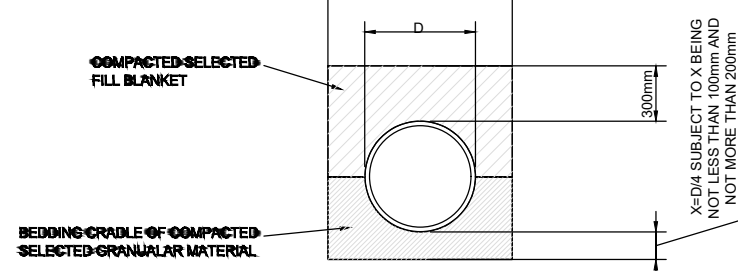
MATERIAL SPECIFICATION

1. CONCRETE GRADE: CLASS/AGGREGATE SIZE (mm)
10/19 STRUCTURES BLINDING
STRUCTURAL CONCRETE 25/19
2. CONCRETE FINISHES: CLASS F2
EXPOSED CLASS F1
UNEXPOSED CLASS F2
3. REINFORCEMENT (SLABS 920 - 1985)
YIELD
STRENGTH (MPa)
TYPE
MILD STEEL BARS 250
HIGH TENSILE STEEL BARS 450
WELDED STEEL FABRIC 450
WELDED STEEL FABRIC TO CONFORM TO SABS 1024
4. JOINT MATERIAL

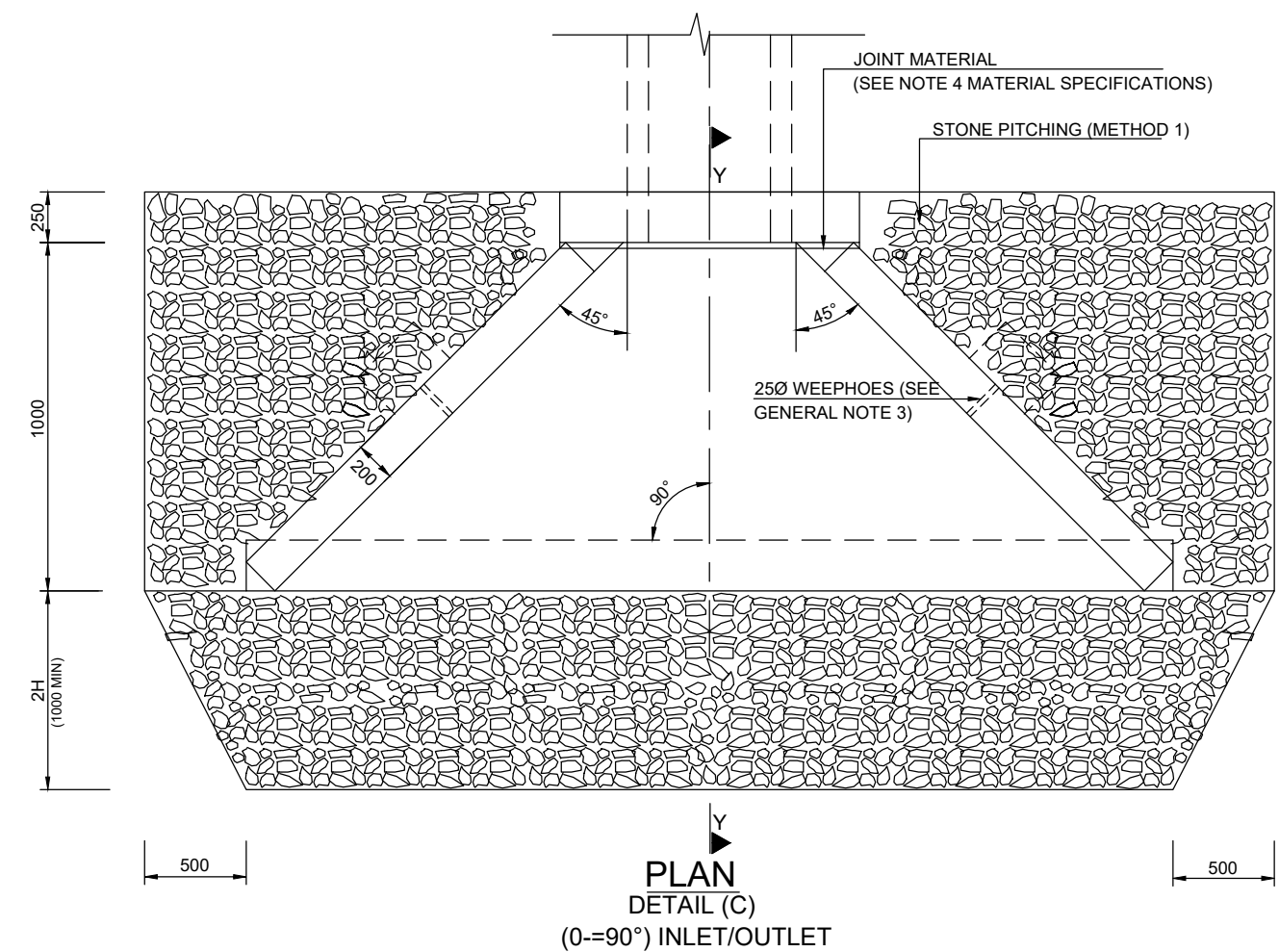
REINFORCEMENT

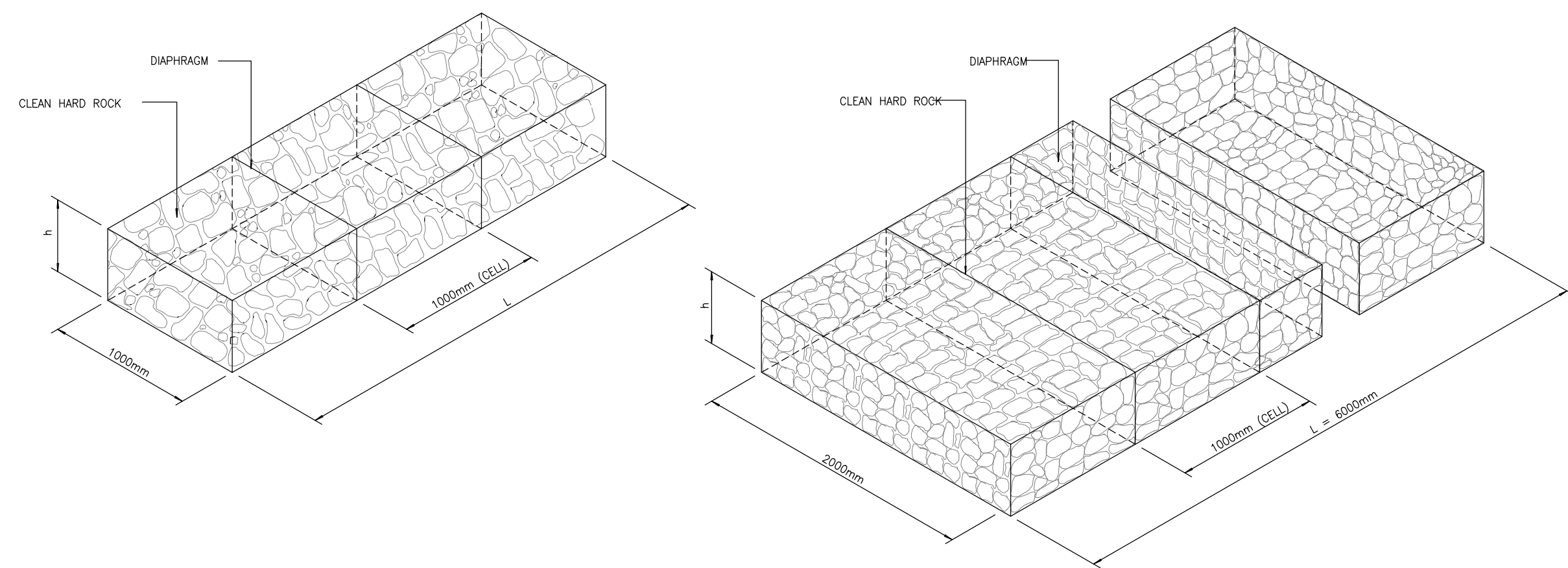
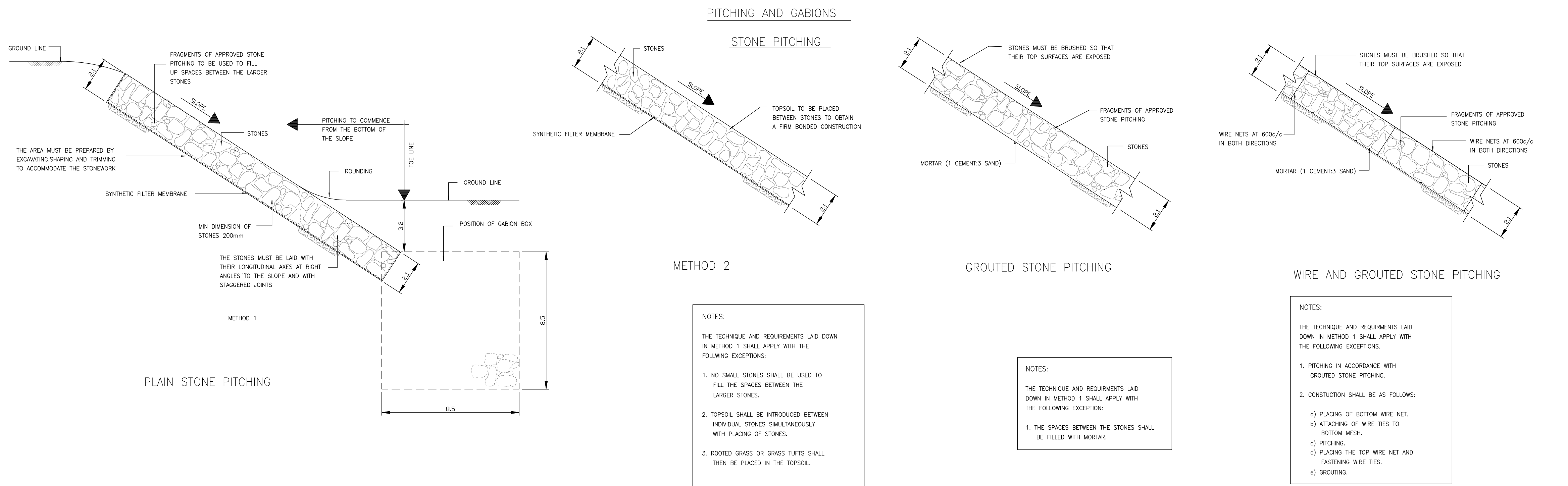
1. COVER TO REINFORCEMENT = 50
2. CUTTING AND BENDING IN ACCORDANCE WITH SABS 82
3. V-BARS TO BE HIGH YIELD STRESS STEEL TO SABS 920 WITH A CHARACTERISTIC STRENGTH OF 450 MPa
4. WELDED STEEL FABRIC TO CONFORM TO SABS 1024.
5. OVERLAPS OF STEEL FABRIC TO BE MIN OF 300.

PIPEØ	600											No. IN EACH	8	8	8	8	8
MARK	01	02	03	04	05	TYPE / DIA	Y10	Y10	Y10	Y10	Y10	SHAPE CODE	38	38	38	38	20



REINFORCEMENT





NOTES:

REVISIONS:

A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:

Independent Development Trust
Limpopo Province
Republic of South Africa

User Client:

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:

BIG PUN
CONSULTING ENGINEERS

Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

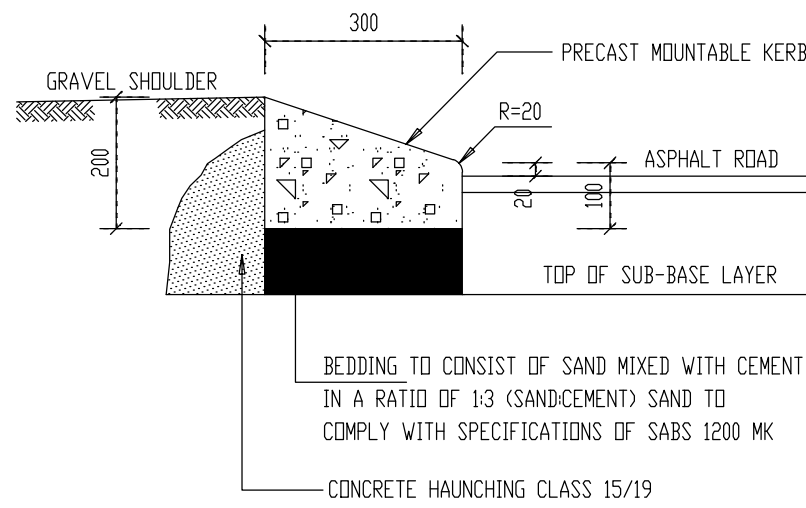
STANDARD DRAWING
GABIONS AND STONE
PITCHING DETAILS

Designed: LR Drawn: KN
Scale: AS SHOWN Checked: LR

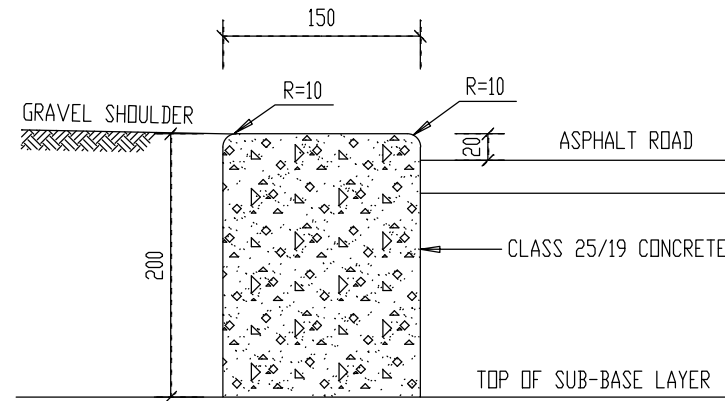
Project No:

Parliamentary
Village

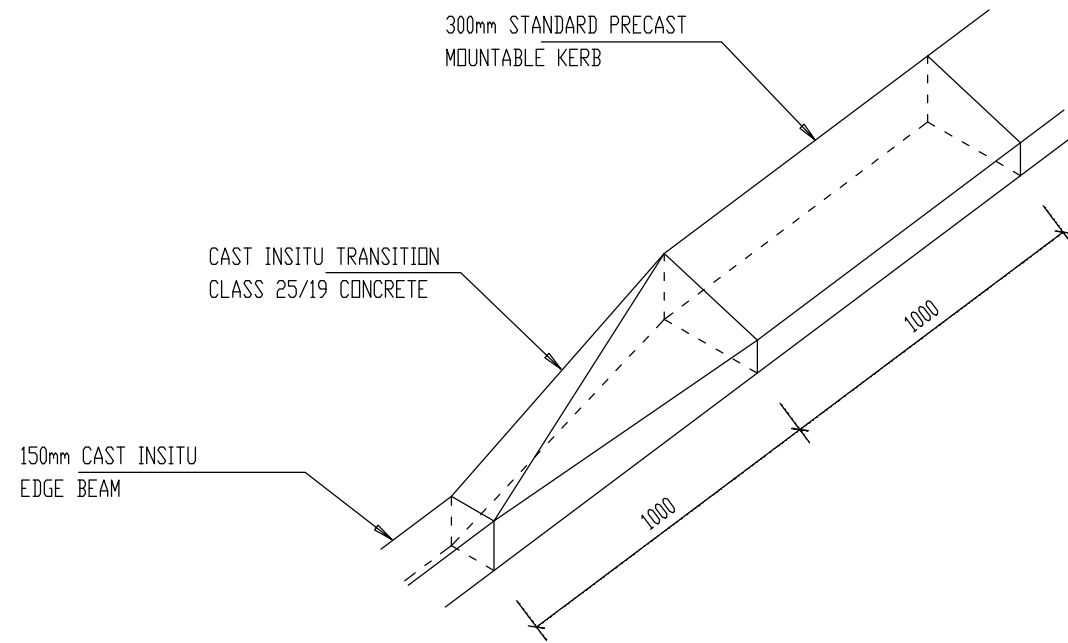
Dwg No: IDT/BPCE/SD02 Date: 25-11-2024 Revision No: C



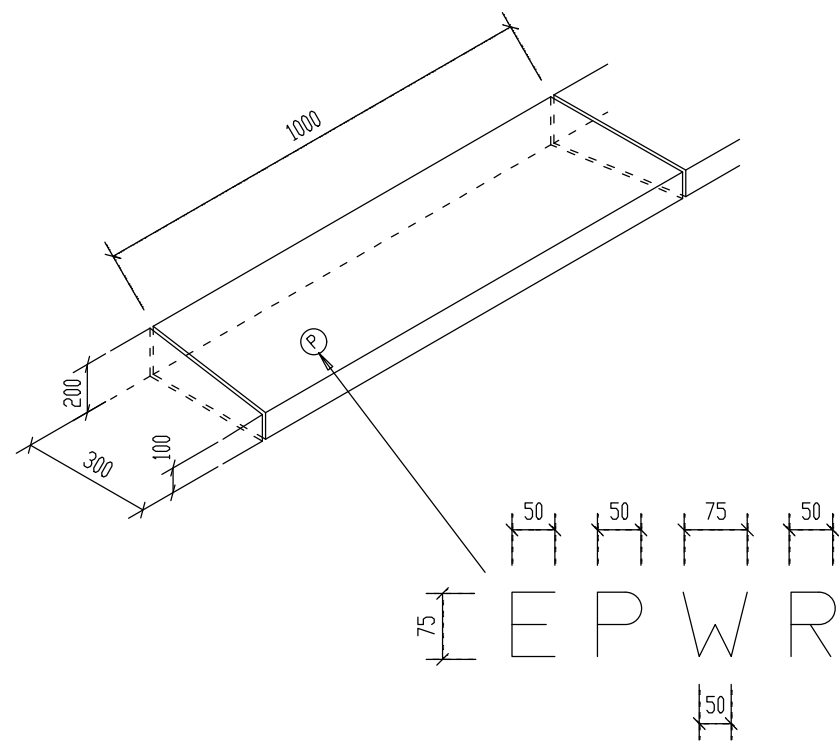
DETAIL OF 300mm MOUNTABLE KERB
FIG.8C
SCALE 1 : 10



DETAIL OF INSITU CASTED CONCRETE
EDGE BEAM AS KERB
SCALE 1 : 5



TRANSITION FROM MOUNTABLE KERBING
TO EDGE BEAM AS KERB
SCALE 1 : 20



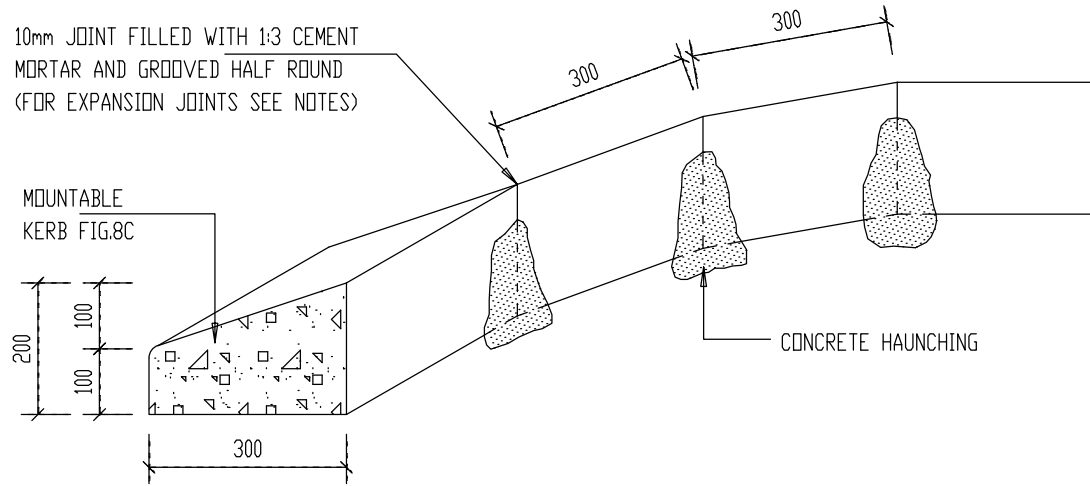
TYPICAL DETAIL FOR IDENTIFICATION
OF SLEEVE POSITIONING
N.T.S.

JOINT NOTES:

1. EXPANSION JOINTS FOR EDGE BEAMS
6mm OPEN JOINTS FOR EVERY 2 METERS (WITH 6mm APPROVED JOINT FORMING MATERIAL EVERY 6 METERS).
2. EXPANSION JOINTS FOR PRECAST CONCRETE KERBS:

RADIUS (m)	NOMINAL UNIT LENGTHS (m)	SPACING OF 12mm OPEN EXPANSION JOINTS (m)
<4	0,3	3
4 TO 20	0,5	5
>20 & STRAIGHTS	1,0	8

3. ALL JOINTS, OTHER THAN PRESCRIBED OPEN EXPANSION JOINTS, FOR PRECAST KERBS MUST BE FILLED WITH 1:3 CEMENT MORTAR AND GROOVED HALF ROUND.
4. PRECAST CONCRETE KERBS AND CHANNELS MUST BE LAID AND BEDDED ON A 50mm THICK LAYER OF BEDDING MATERIAL AS SPECIFIED IN SABS 1200MK.
5. GRADE 25/19 CONCRETE FOR EDGE BEAMS AND TRANSITIONS
6. ALL MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH SABS 1200MK.
7. WHERE KERBS CAN NOT BE LAID DIRECTLY ON THE SUBBASE, FILLING BETWEEN THE SUBBASE AND THE KERB MUST BE DONE IN AN APPROVED MANNER
8. ALL CAST IN-SITU CONCRETE TO BE CURED AS SPECIFIED IN SABS 1200G



TYPICAL DETAIL OF MOUNTABLE
KERB ON CURVED SECTIONS
SCALE 1 : 10

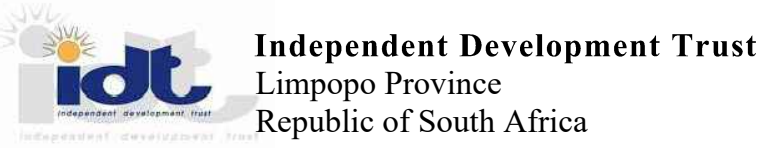
NOTES:

REVISIONS:

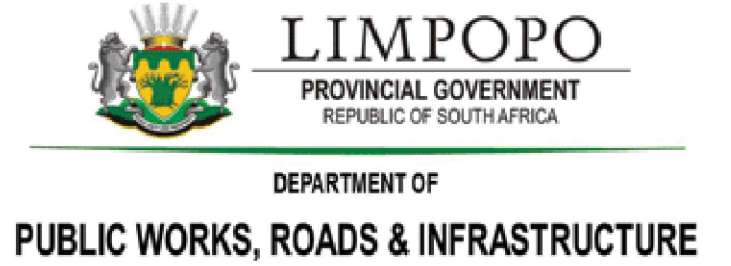
A	25/11/2024	ISSUED FOR PDR APPROVAL
B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

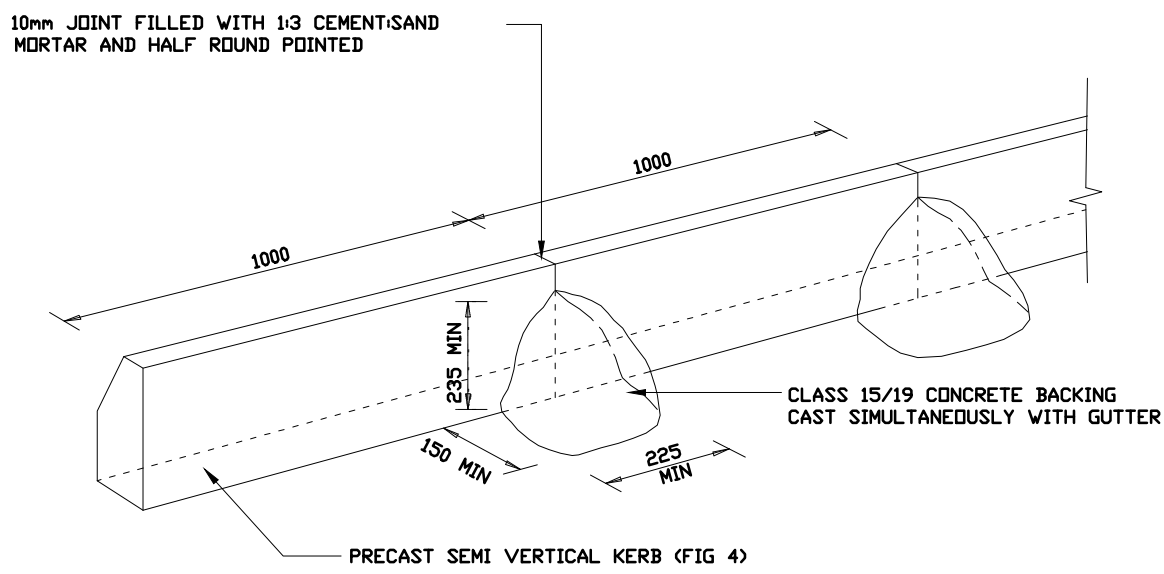
STANDARD DRAWING
KERBING STANDARD DETAIL
ALL ROADS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

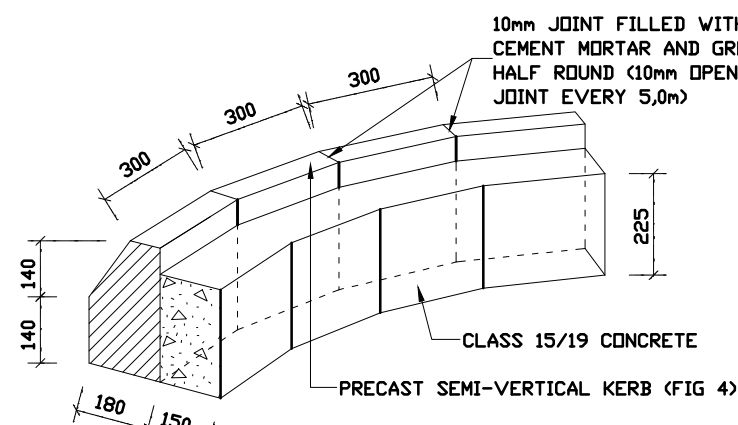
Parliamentary
Village

Dwg No: IDT/BPCE/SD03	Date: 25-11-2024	Revision No: C
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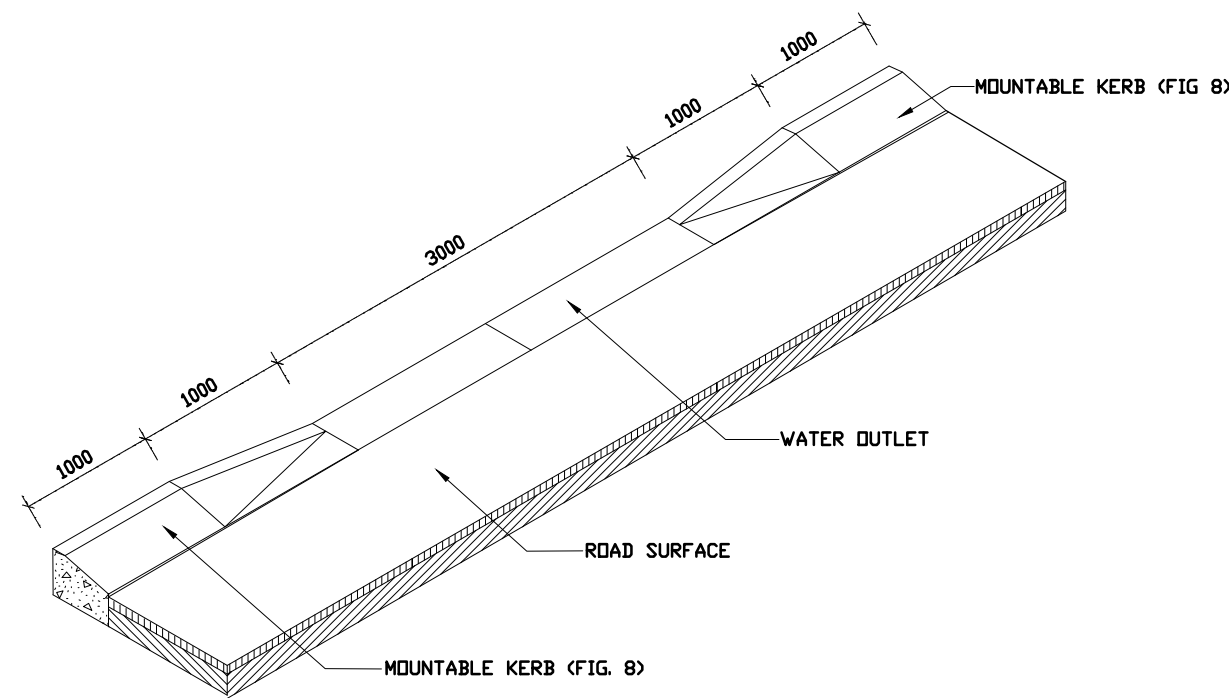
DETAIL OF SEMI-VERTICAL KERB (STRAIGHT SECTION)

SCALE 1:10



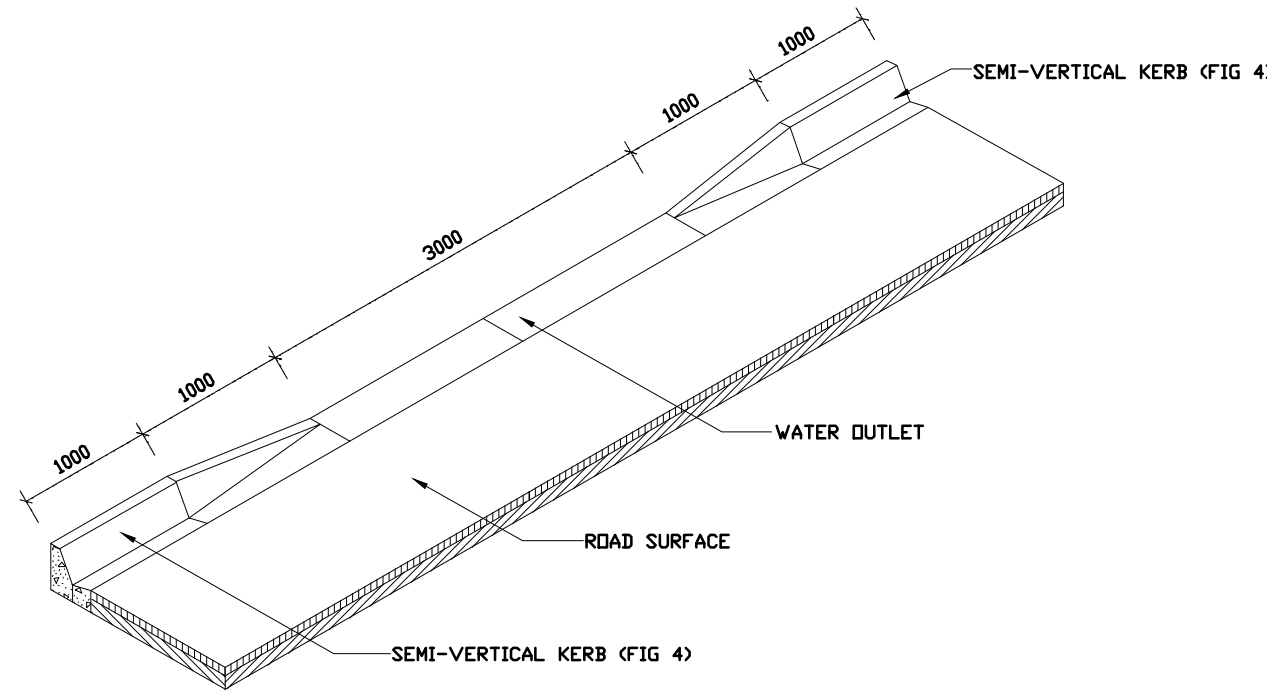
DETAIL OF SEMI-VERTICAL KERB ON CURVED SECTION

SCALE 1:10



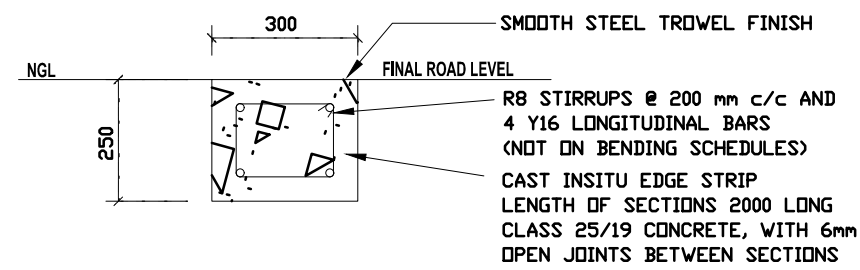
ISOMETRIC ELEVATION OF KERB OUTLET

NTS



ISOMETRIC ELEVATION OF KERB OUTLET

NTS



CONCRETE EDGE STRIP

SCALE 1:10

TABLE WITH PRESCRIBED EXPANSION JOINTS ON KERBING

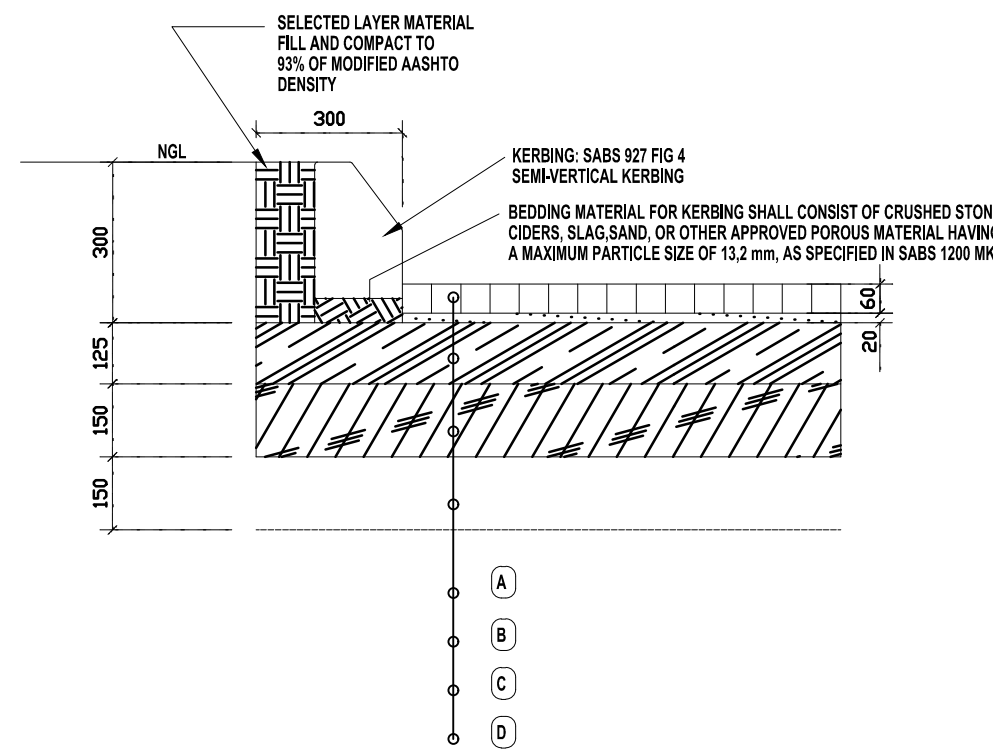
RADIUS (m)	NOMINAL UNIT LENGTHS (m)	SPACING OF 10mm OPEN EXPANSION JOINTS (m)
<4	0.3	3
4 TO 20	0.5	5
>20	1.0	8

NOTES ON JOINTS :

- EXPANSION JOINTS FOR EDGE STRIPS: 6mm OPEN JOINTS FOR EVERY 2 METERS (WITH 6mm APPROVED JOINT FORMING MATERIAL EVERY 6 METERS).
- EXPANSION JOINTS FOR PRECAST CONCRETE KERBS AND CHANNELS: > 12 mm WIDE AT INTERVALS < 20 m (AS SPECIFIED IN SABS 1200 MK).
- ALL JOINTS, OTHER THAN PRESCRIBED OPEN EXPANSION JOINTS, FOR PRECAST SEMI-VERTICAL KERBS MUST BE FILLED WITH 1/3 CEMENT MORTAR AND GROOVED HALF ROUND.
- PRECAST CONCRETE KERBS AND CHANNELS MUST BE LAID AND BEDDED ON A 50 mm THICK LAYER OF BEDDING MATERIAL AS SPECIFIED IN SABS 1200 MK.
- SEE DWG No 667/SITE/31817/CIV/28 AND 667/- SITE/31817/CIV/32 FOR KERBING LAYOUTS.

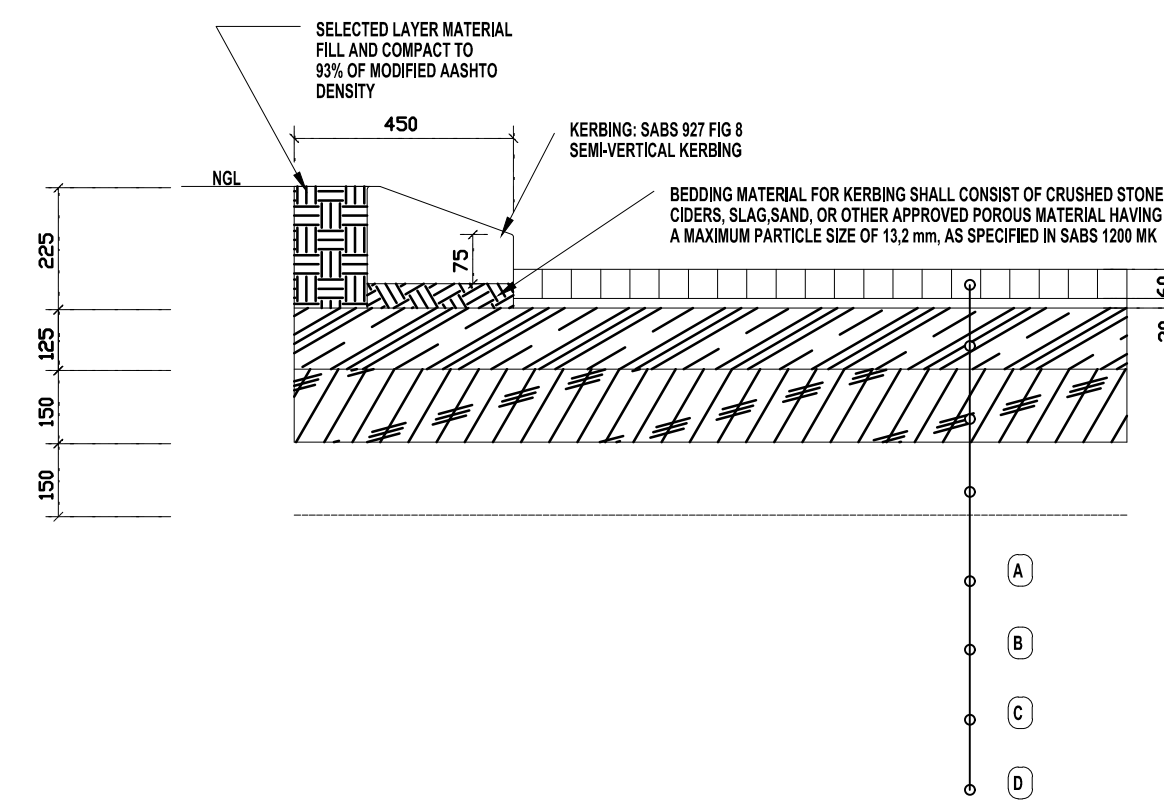
LEGEND FOR ROAD LAYER WORKS

- WEARING COURSE: 60 mm THICK TYPE S-A CONCRETE SEGMENTED PAVING ON A 20 mm THICK SAND BEDDING AS PER SABS 1200 MJ. AFTER PLACING OF THE SEGMENTED PAVING THE SEGMENTED PAVING SHALL BE ROLLED TO LOCKED-UP CONDITION AS SPECIFIED IN SABS 1200 MJ (S.6.2).
- SUB-BASE: 125 mm THICK STABILIZED GRAVEL COMPACTED TO 95% OF MODIFIED AASHTO DENSITY. MINIMUM UCS = 750 kPa AT 100% OF MODIFIED AASHTO DENSITY (SABS 1200 ME).
- SELECTED LAYER: 150 mm THICK NATURAL GRAVEL COMPACTED TO 95% OF MODIFIED AASHTO DENSITY. MINIMUM CBR = 15 AT 95% OF MODIFIED AASHTO DENSITY (SABS 1200 DM). (TO BE DETERMINED BY THE R.E. ON SITE).
- ROADBED PREPARATION: 150 mm THICK IN-SITU MATERIAL COMPACTED TO 90% OF MODIFIED AASHTO DENSITY.
- WEARING COURSE: 170 mm THICK CONCRETE. THE HIGHER OF A 28 DAY COMPRESSIVE STRENGTH OF 30 MPa OR UCS: WHERE FC IS THE 28 DAY COMPRESSIVE STRENGTH CORRESPONDING TO A 28 DAY FLEXURAL STRENGTH OF 3.8 MPa. MINIMUM CEMENT CONTENT = 310 kg/m³ MINIMUM CEMENT : WATER RATIO NOT LESS THAN 1:1.
- SUB-BASE: 100 mm THICK STABILIZED SUB-BASE COMPACTED TO 95% OF MODIFIED AASHTO DENSITY. MINIMUM UCS = 1200 kPa AT 95% OF MODIFIED AASHTO DENSITY (SABS 1200 DM). (TO BE DETERMINED BY THE R.E. ON SITE).
- SELECTED LAYER: 150 mm THICK SELECTED LAYER COMPACTED TO 95% OF MODIFIED AASHTO DENSITY. MINIMUM CBR = 15 AT 95% OF MODIFIED AASHTO DENSITY (SABS 1200 DM). (TO BE DETERMINED BY THE R.E. ON SITE).



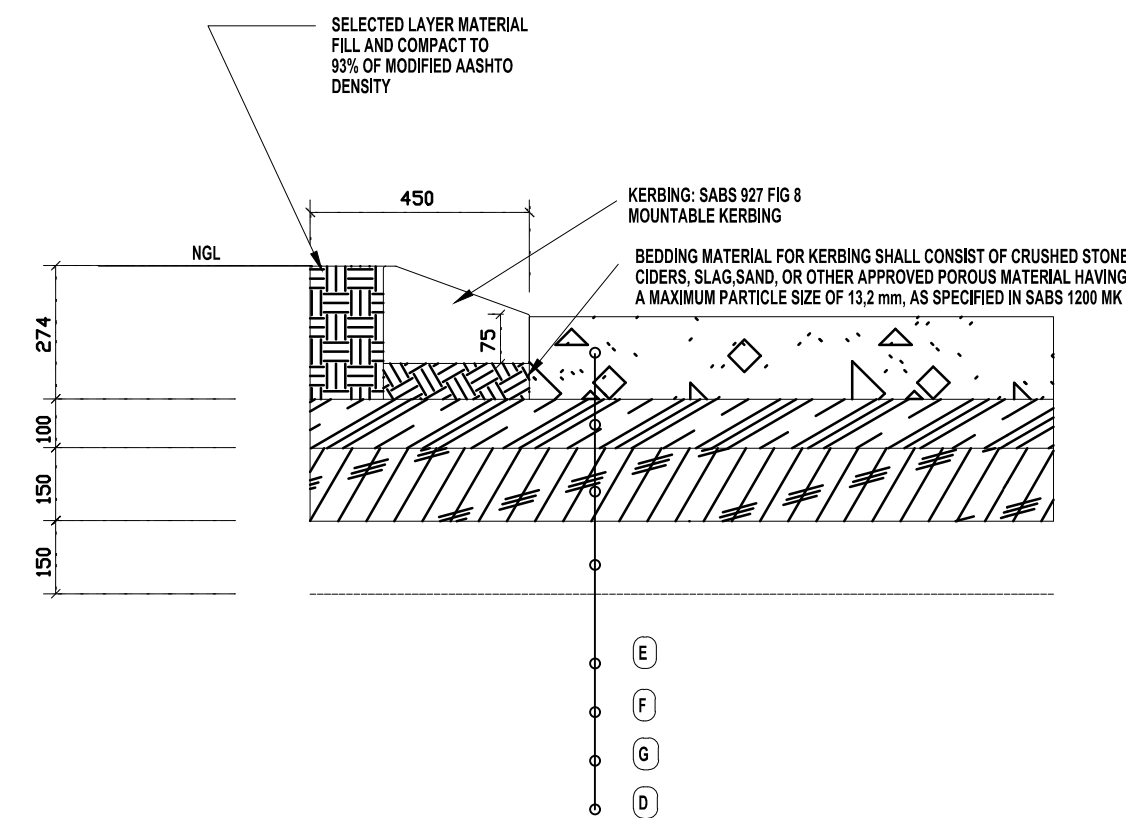
TYPE - A PAVEMENT DESIGN GRAVEL ROADS

NTS



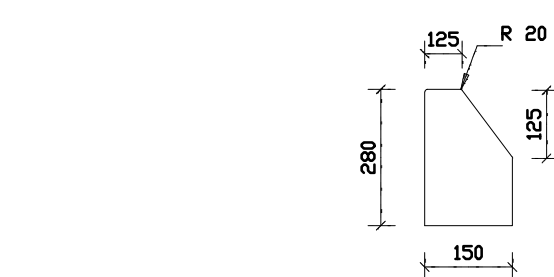
TYPE - B PAVEMENT DESIGN CONCRETE SEGMENTED PAVING

NTS



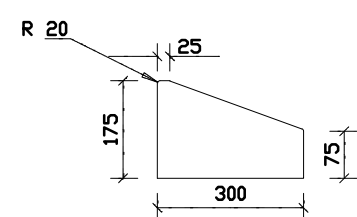
TYPE - C PAVEMENT DESIGN CONCRETE PAVEMENT

NTS



STANDARD PRECAST SEMI-VERTICAL KERBING SABS 927 FIG 4

NTS



STANDARD PRECAST MOUNTABLE KERB SABS 927 FIG 8

NTS

NOTES FOR CONCRETE KERBING:

- GRADE 25/13.2 CONCRETE FOR KERBING
- ALL MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH SABS 1200MK.

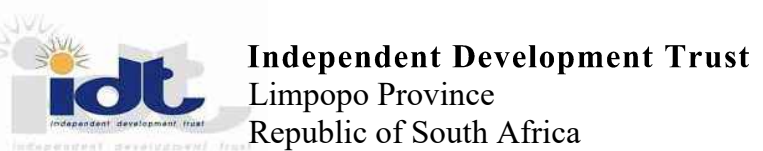
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REVISIONS:

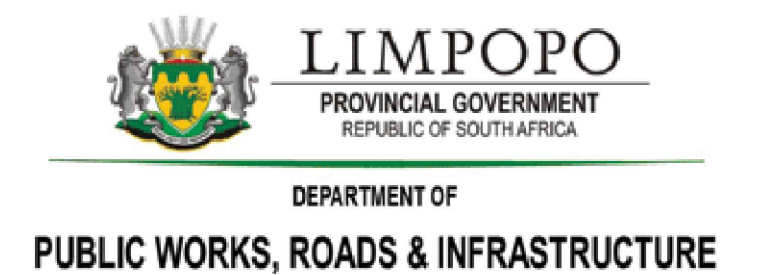
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B	15/01/2025	ISSUED FOR PDR APPROVAL
C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED DEVELOPMENT FOR PARLIAMENTARY VILLAGE

Drawing Title:

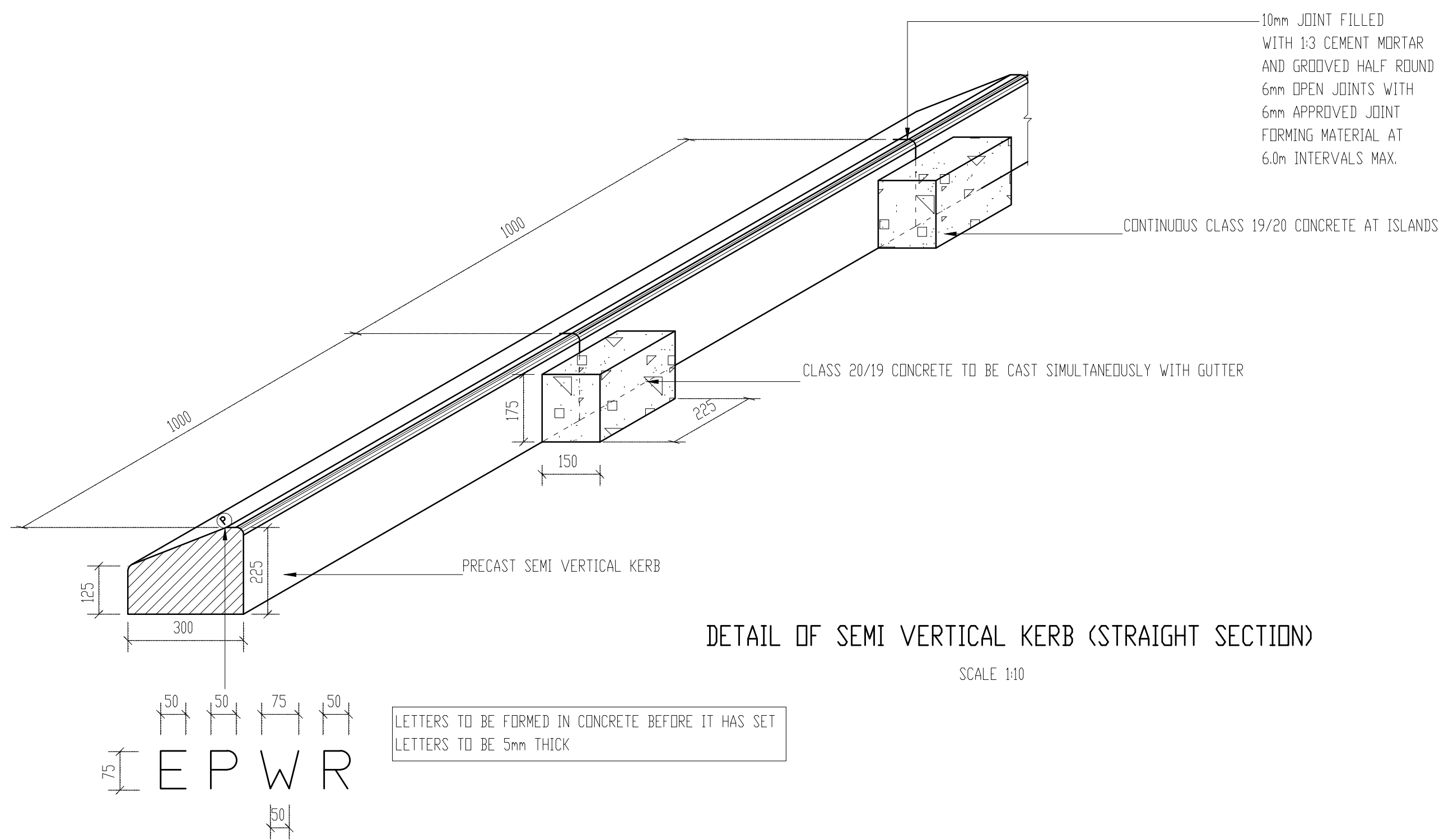
STANDARD DRAWING KERBING STANDARD DETAIL ALL ROADS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

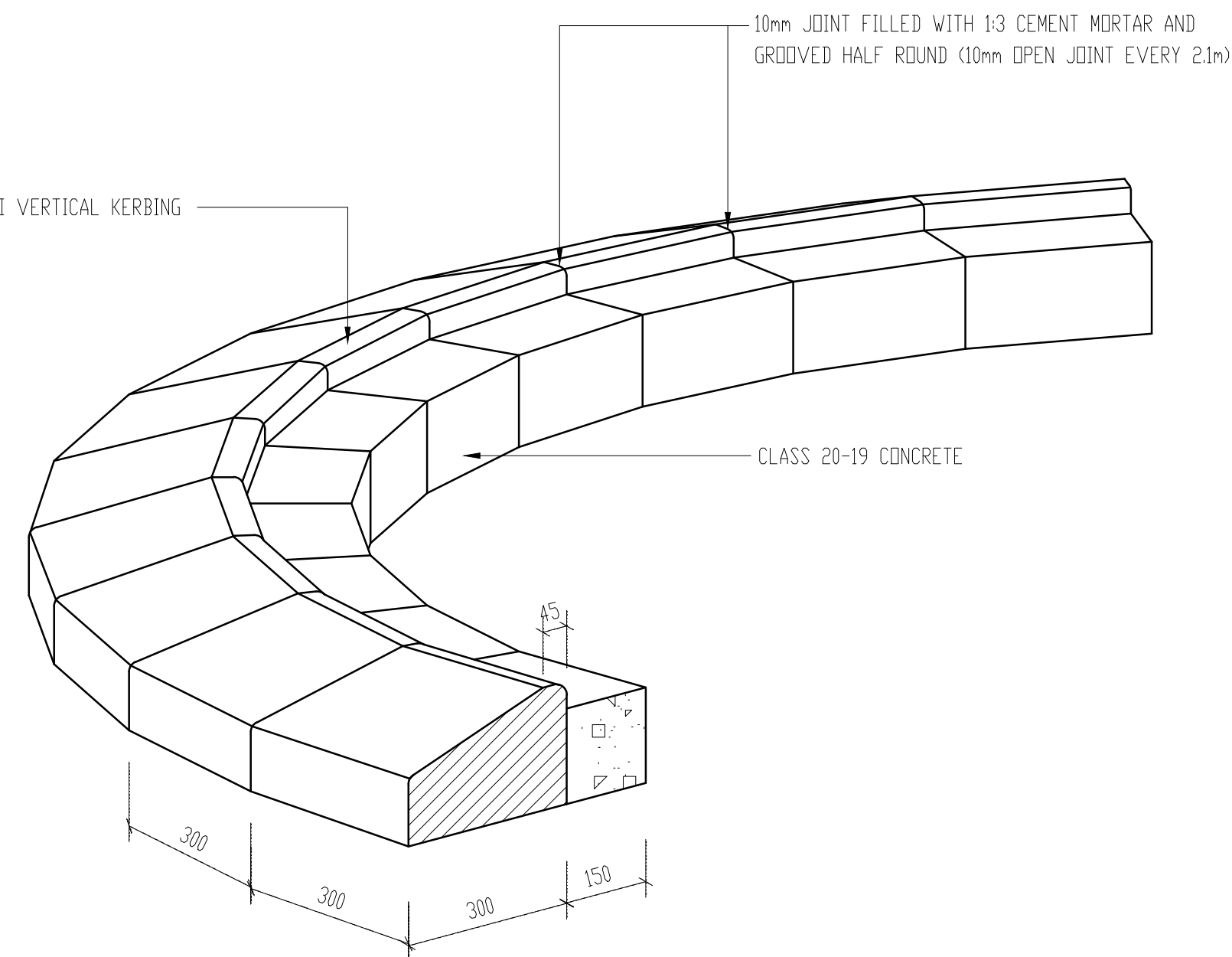
Parliamentary Village

Dwg No: IDT/BPCE/SD04	Date: 25-11-2024	Revision No: C
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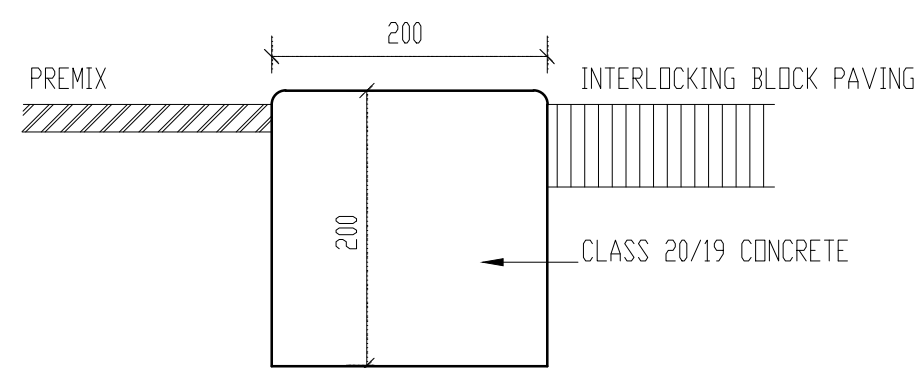
DETAIL OF SEMI VERTICAL KERB (STRAIGHT SECTION)

SCALE 1:10



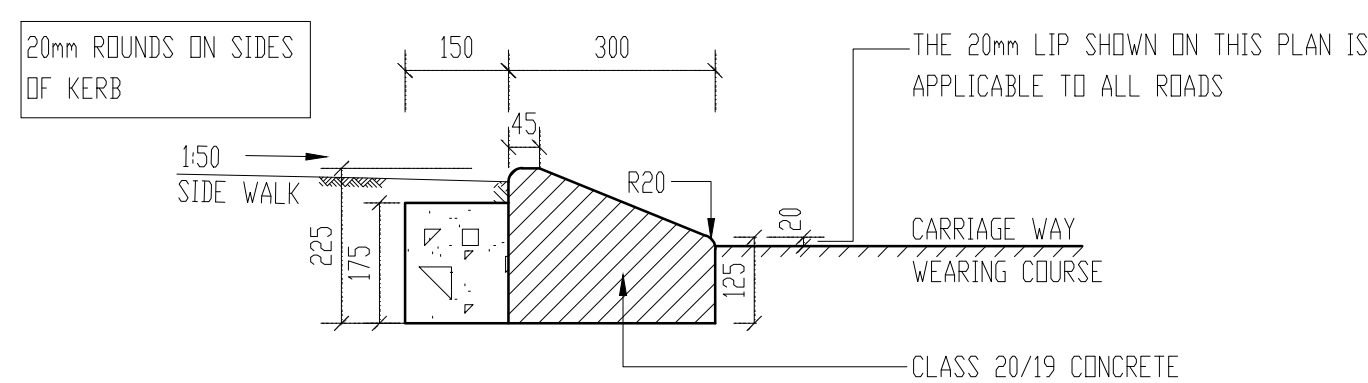
DETAIL OF SEMI VERTICAL KERB ON CURVED SECTIONS

SCALE 1:10



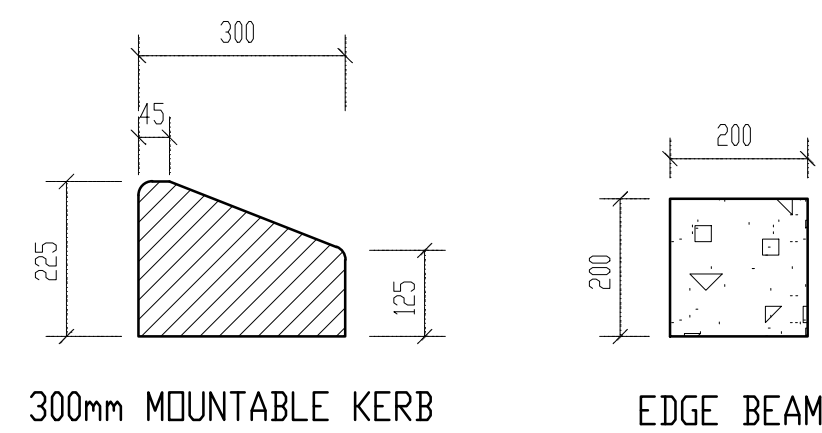
TYPICAL SECTION OF EDGE BEAM AT THE TRANSITION OF TWO TYPES OF PAVING

SCALE 1: 5



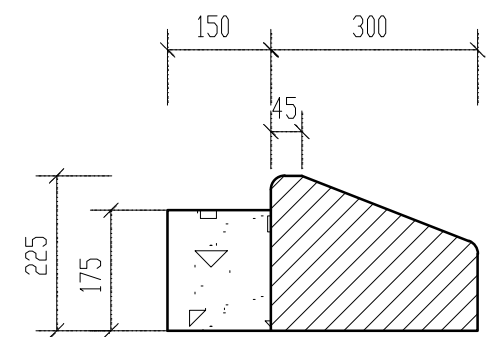
DETAIL OF SLOPE KERBING

SCALE 1:10



300mm MOUNTABLE KERB

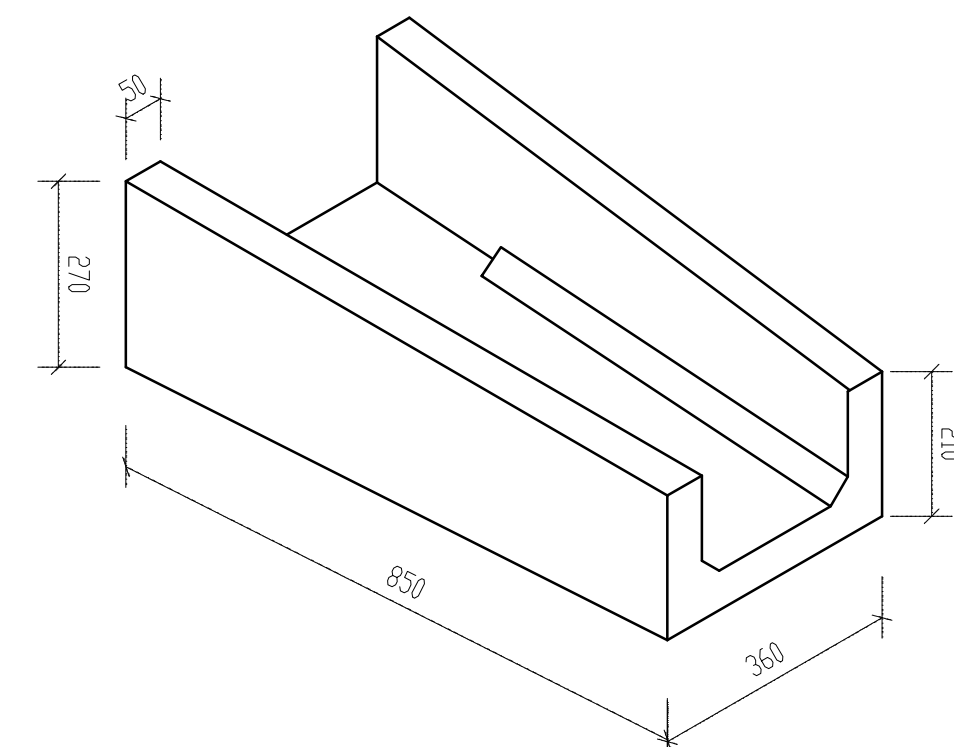
EDGE BEAM



300mm MOUNTABLE KERB WITH CONCRETE BACKING (Fig 8-D)

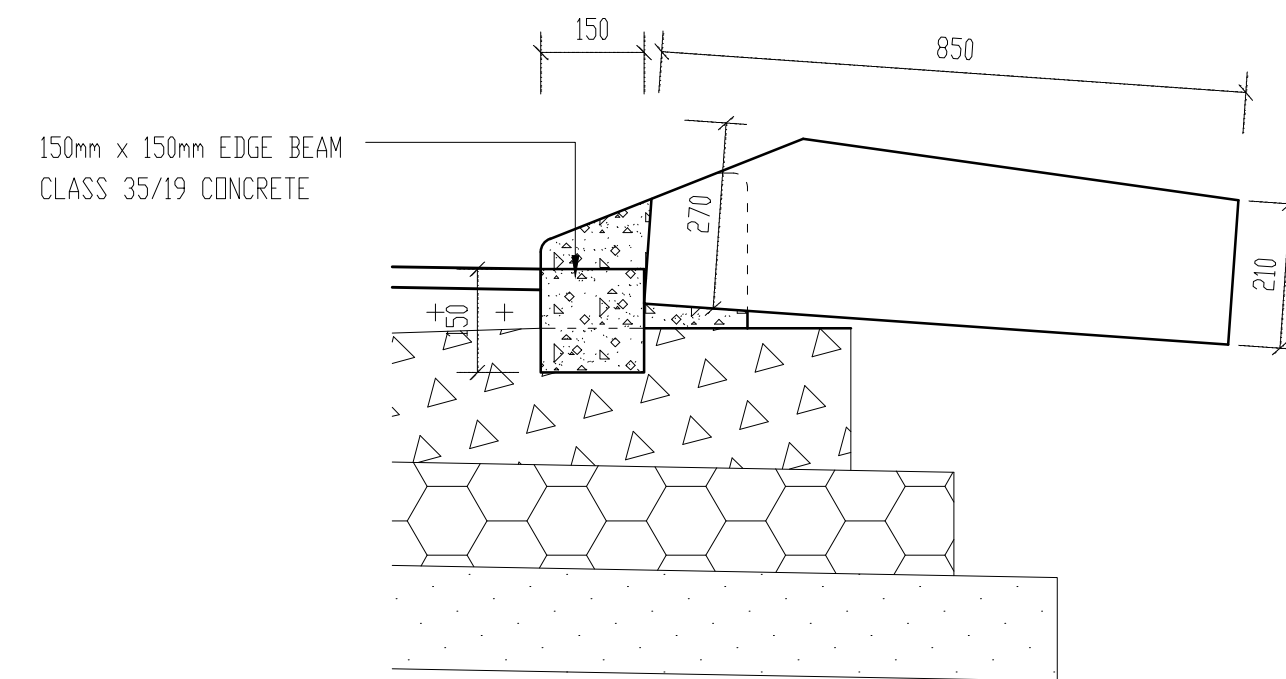
TYPICAL KERB SECTIONS

SCALE 1: 10



SALBERG TAPER SHUTE CHANNEL

SCALE 1:10



TYPICAL SHUTE SECTION

SCALE 1:10

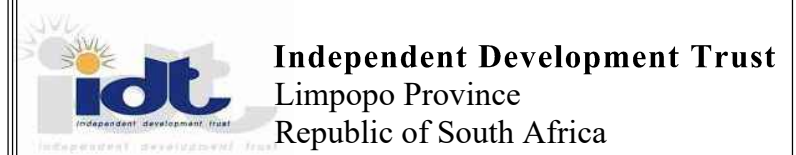
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REVISIONS:

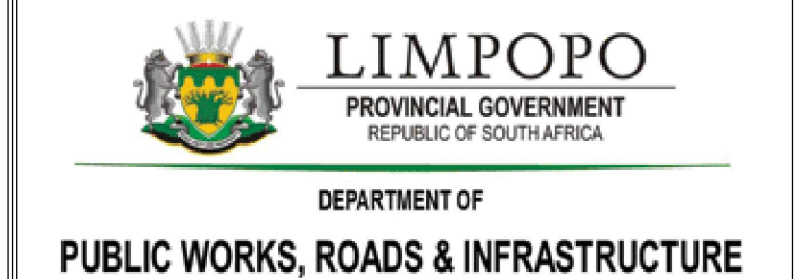
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C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED DEVELOPMENT FOR PARLIAMENTARY VILLAGE

Drawing Title:

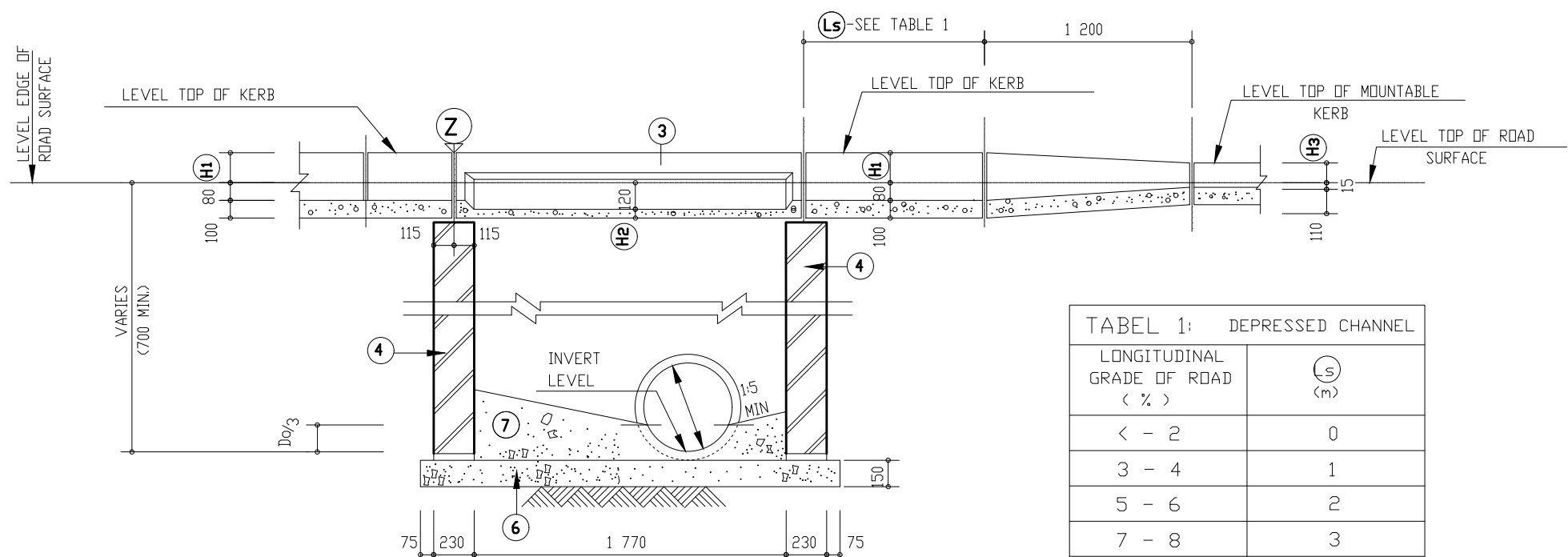
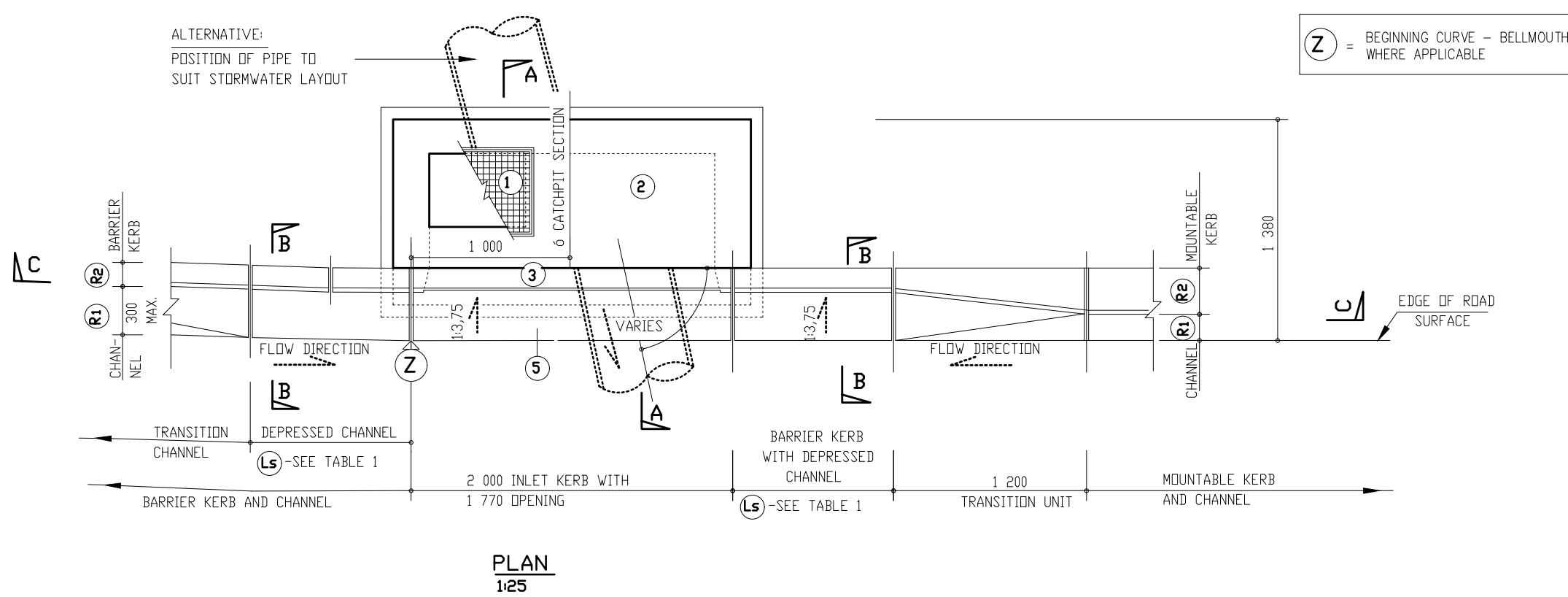
STANDARD DRAWING KERBING STANDARD DETAIL ALL ROADS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

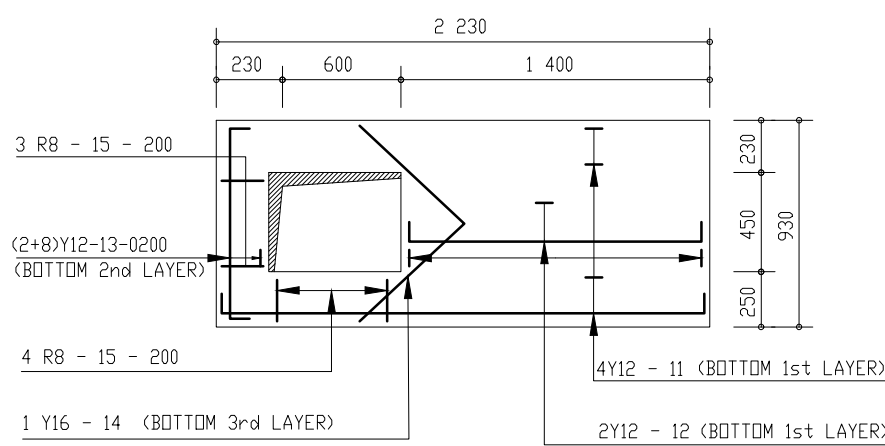
Parliamentary Village

Dwg No: IDT/BPCE/SD05	Date: 25-11-2024	Revision No: C
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SECTION C-C 125 (ALONG CHANNEL INVERT LEVEL)

0 10 20 30 40 50 100
100 millimeters on original drawing



PLAN 125

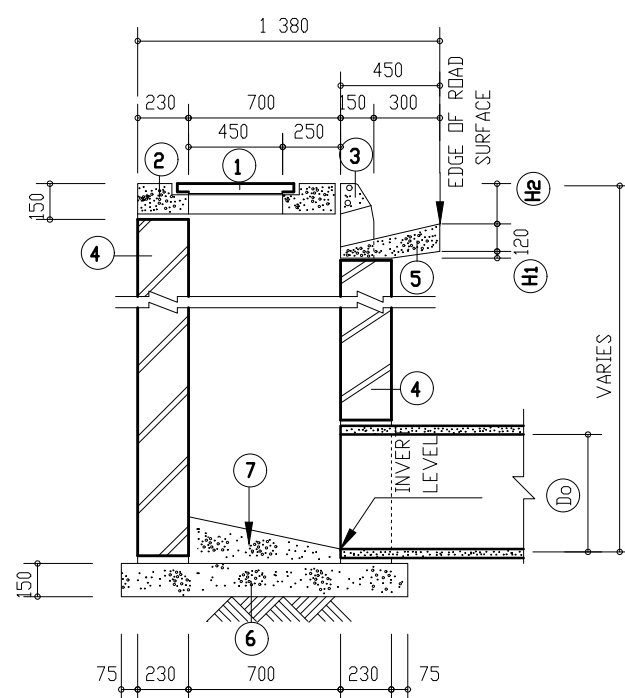
② - CONCRETE COVER SLAB

TABEL 1: DEPRESSED CHANNEL	
LONGITUDINAL GRADE OF ROAD (%)	(S) (m)
< - 2	0
3 - 4	1
5 - 6	2
7 - 8	3
> - 10	4

NOTE: DEPRESSED CHANNEL (S) CONSTRUCTED UPSTREAM OF CATCHPIT ONLY.

ITEMS

- CAST IRON COVER AND FRAME, 600 x 450 NOMINAL DAYLIGHT OPENING TO SABS 558 - TYPE 9D.
- 2230 x 930 x 150 IN SITU, REINFORCED CONCRETE SLAB IN MIX 20 CONCRETE.
- 2000 x 380 x 150 PRECAST, REINFORCED INLET KERB IN MIX 25 CONCRETE.
- 230mm BRICKWORK (UNPLASTERED).
- IN SITU INLET CHANNEL IN MIX 20 CONCRETE.
- IN SITU FLOOR IN MIX 20 CONCRETE.
- BENCHING IN MIX 15 CONCRETE.



SECTION A-A 125

IN SITU MIX 20 CONCRETE
ALTERNATIVE:
PRECAST KERB WITH
IN SITU CHANNEL.

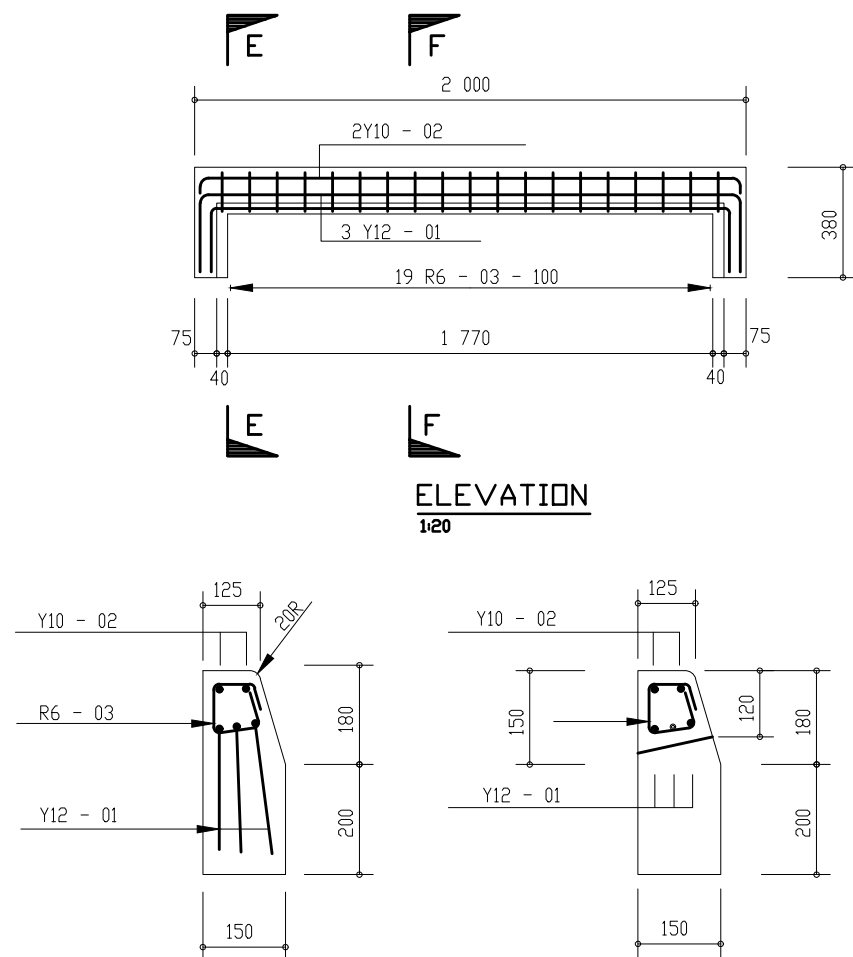
SECTION B-B 125

NOTES

(H1), (H2), (H3), (R1) AND (R2) ACCORDING TO KERB DETAILS.

(H1) = 145 MIN ; 175 MAX.

(H2) = 85 MIN.



SECTION E-E 100

SECTION F-F 100

③ - INLET KERB

BENDING SCHEDULE PER INLET KERB					
BAR MARK	TYPE & DIA	NUMBER PER UNIT	CUT LENGTH (m)	BENDING N.T.S.	
01	Y12	3	2,350	230	1 940
02	Y10	2	2,100	100	1 940
03	R6	19	0,430	70	100

NOTES

ALL DIMENSIONS ARE EXTERNAL
STEEL MASS PER UNIT = 10,7 kg.

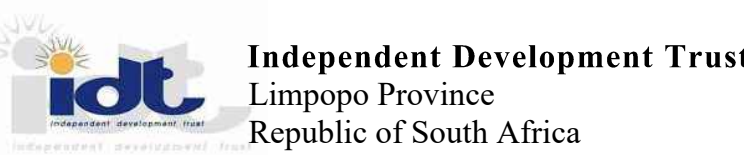
NOTES:

REVISIONS:

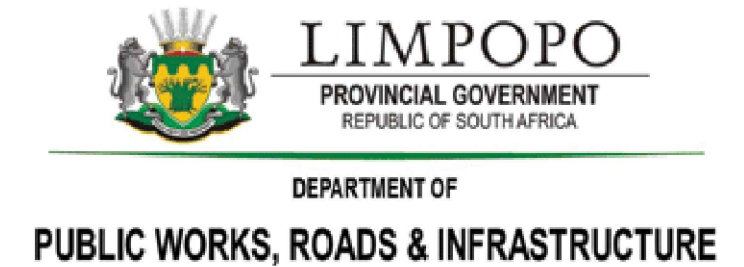
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C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

**STANDARD DRAWING
KI UNITS STANDARDS**

Designed: LR
Scale: AS SHOWN

Drawn: KN
Checked: LR

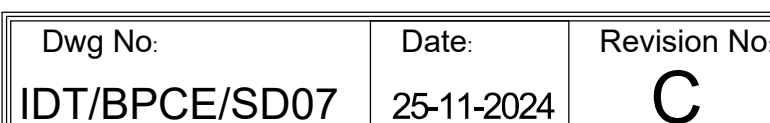
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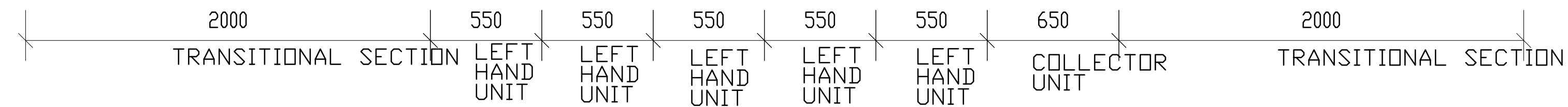
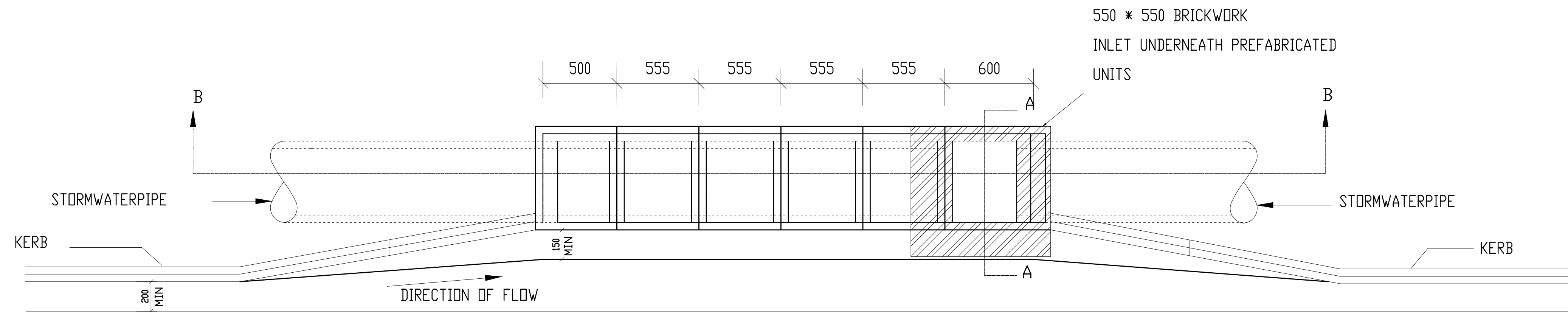
**Parliamentary
Village**

Dwg No:
IDT/BPCE/SD06

Date:
25-11-2024

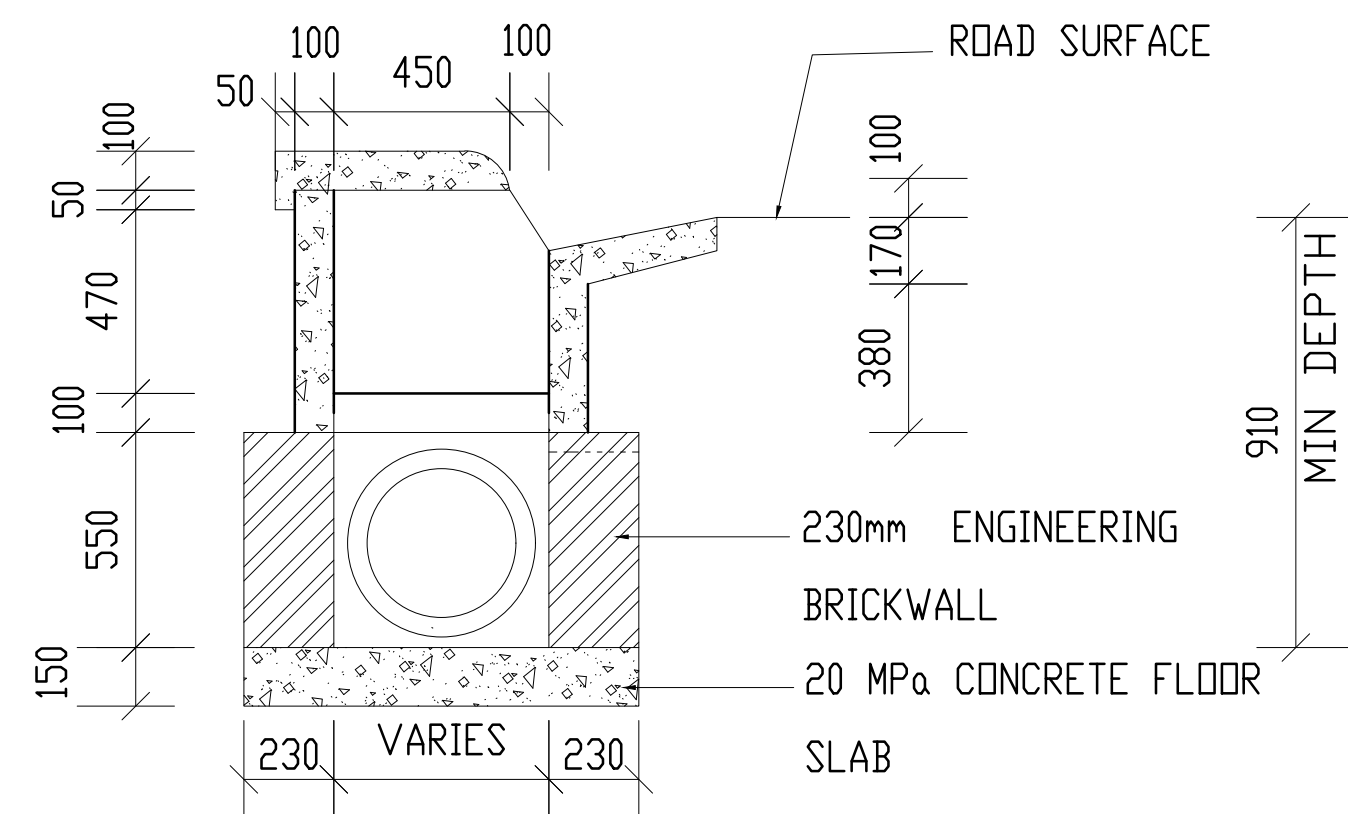
Revision No:
C





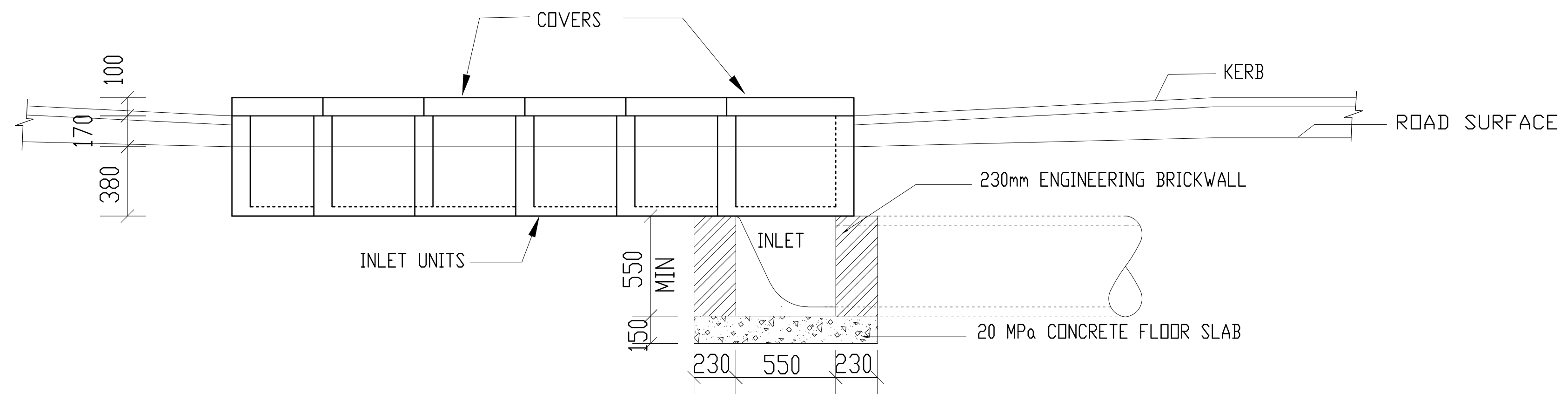
KERBMASTER KERB INLET - PLAN

SCALE 1: 50



SECTION A-A

SCALE 1: 20



SECTION B-B

SCALE 1: 50

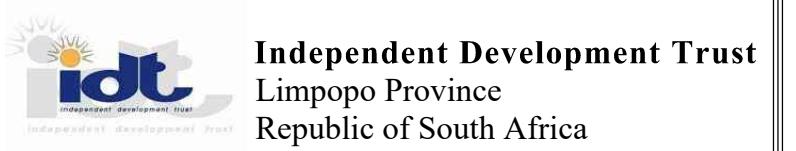
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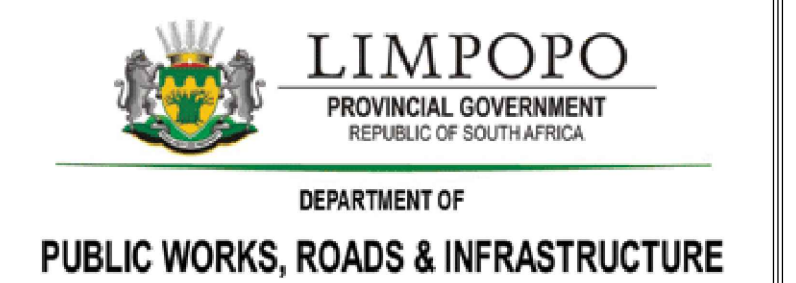
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C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

STANDARD DRAWING
KI UNITS STANDARDS
ALL ROADS

Designed:

LR

Drawn:

KN

Scale:

AS SHOWN

Checked:

LR

Project No:

Parliamentary
Village

Dwg No:

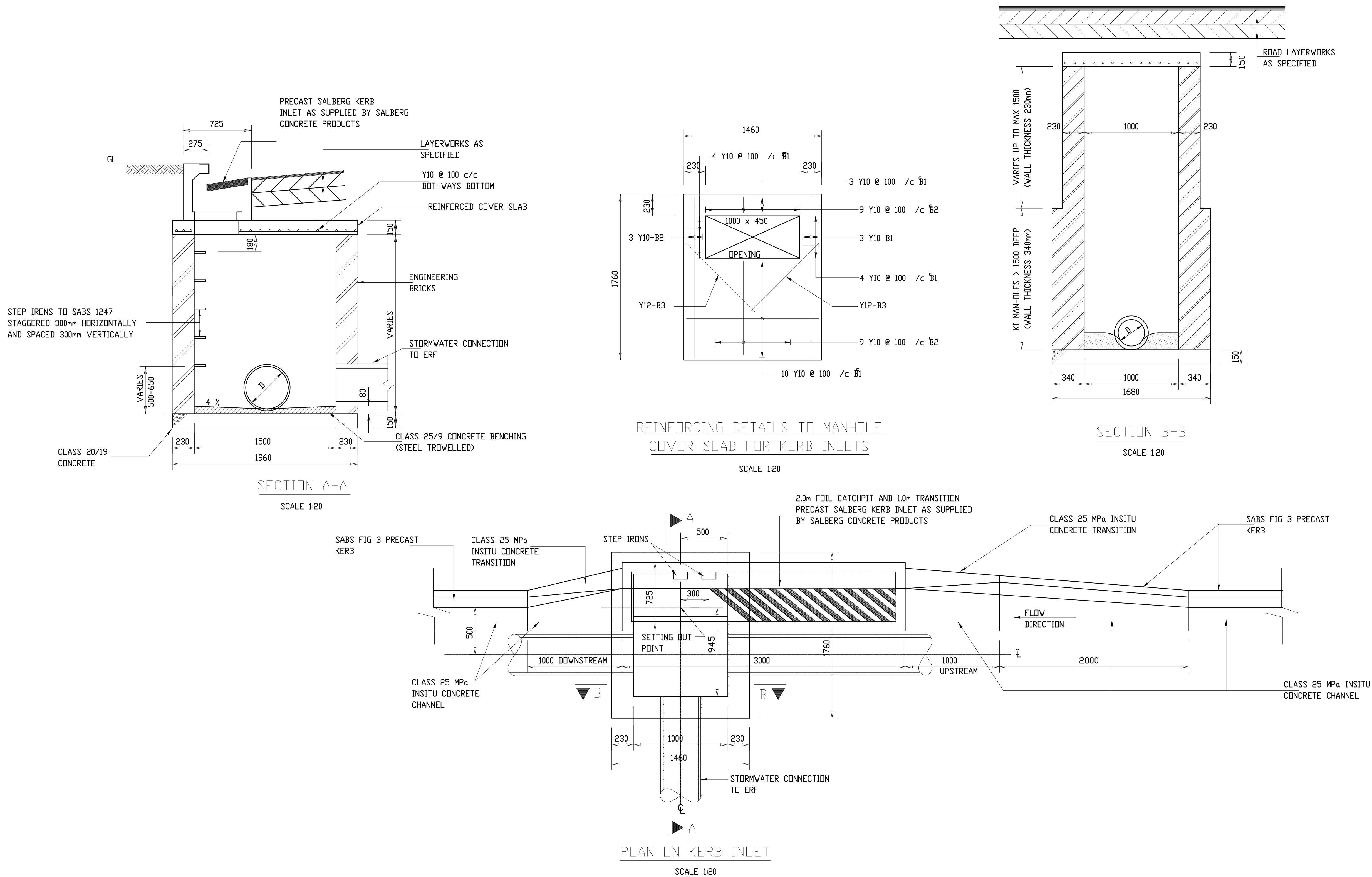
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Date:

25-11-2024

Revision No:

C



NOTES:

REVISIONS:		
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C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:
 **Independent Development Trust**
Limpopo Province
Republic of South Africa

User Client:
 **LIMPOPO**
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:
 **BIG PUN**
CONSULTING ENGINEERS

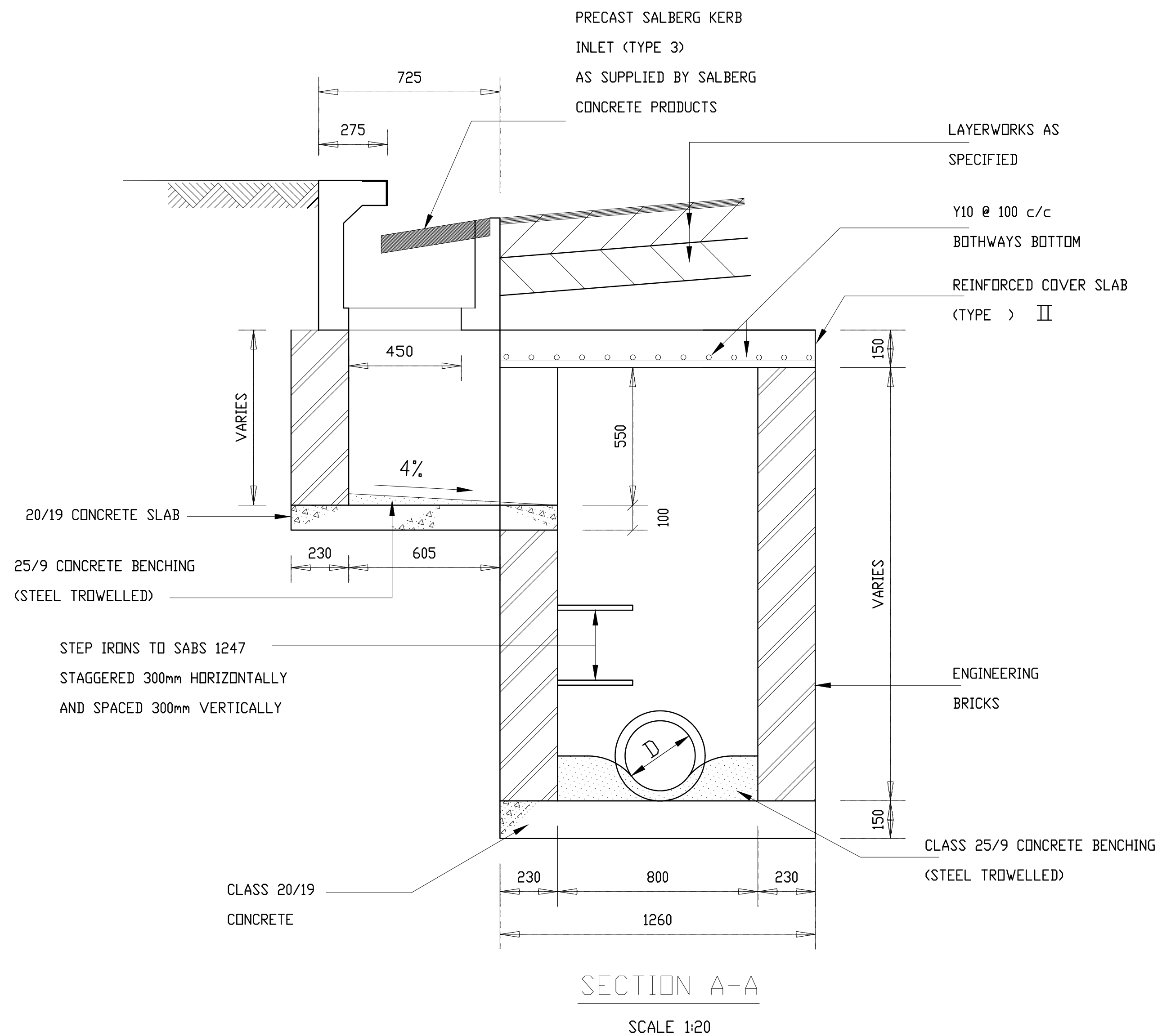
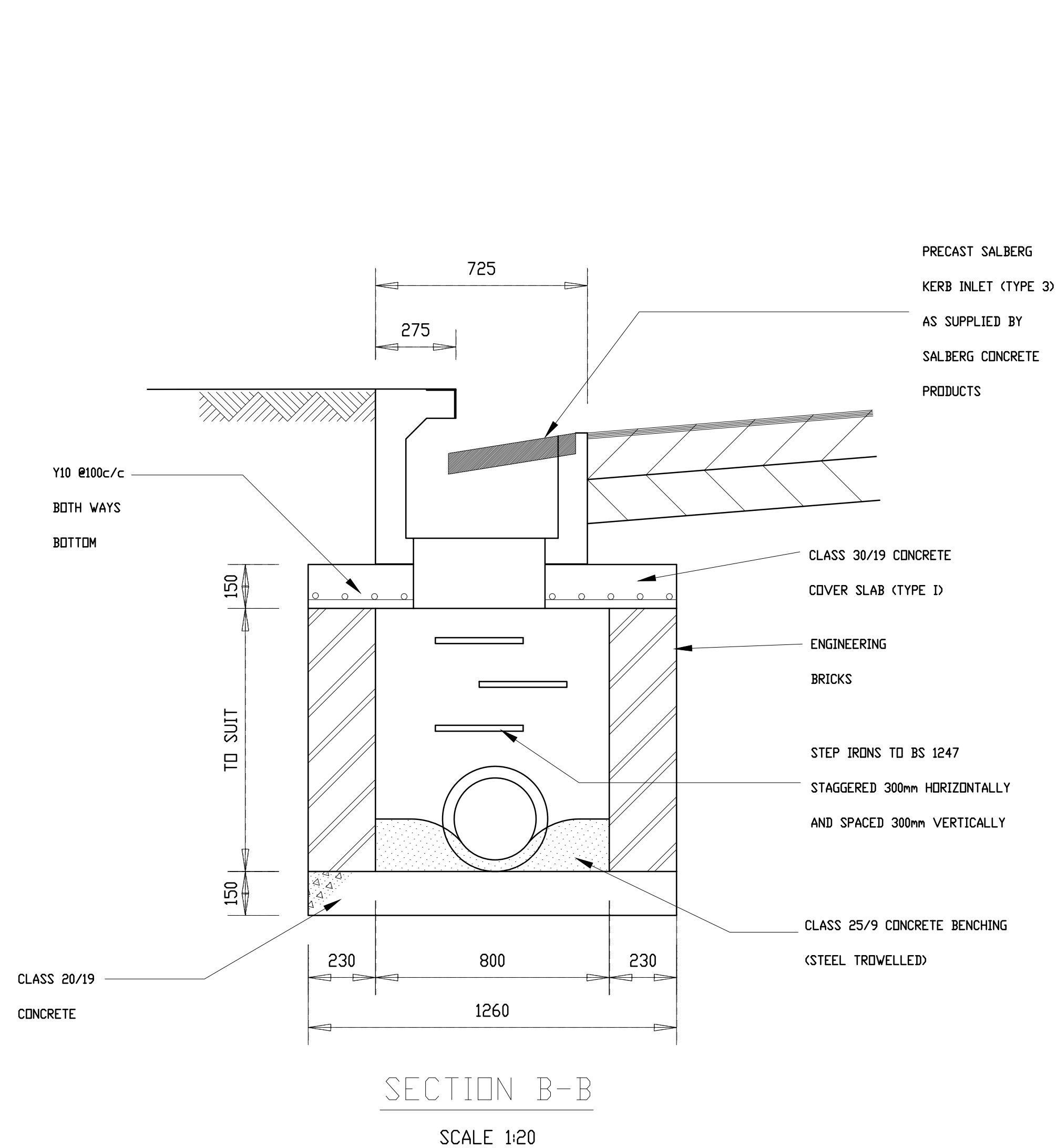
Project:
**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:
**STANDARD DRAWING
KI UNITS STANDARDS
ALL ROADS**

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:
**Parliamentary
Village**

Dwg No: IDT/BPCE/SD09	Date: 25-11-2024	Revision No: C
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NOTES:

REVISIONS:		
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C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:	

Implementing Client:

 **Independent Development Trust**
Limpopo Province
Republic of South Africa

User Client:

 **LIMPOPO**
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

Consulting Engineers:

 **BIG PUN**
CONSULTING ENGINEERS

Project:

**PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE**

Drawing Title:

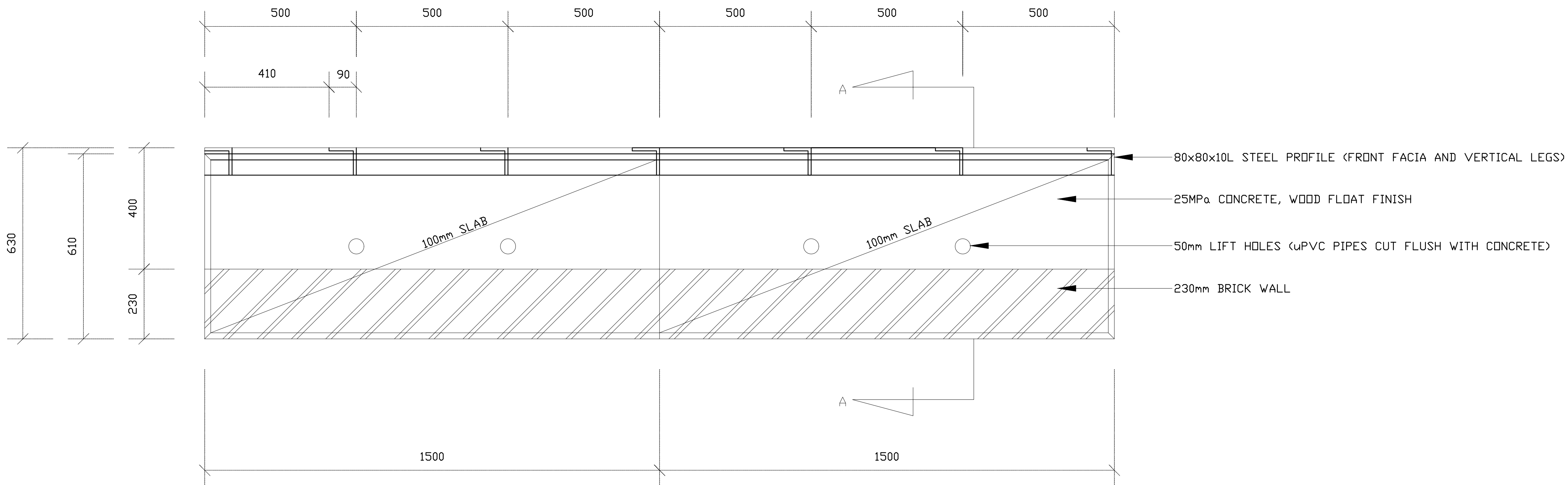
**STANDARD DRAWING
KI UNITS STANDARDS
ALL ROADS**

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Scale: AS SHOWN	Checked: LR

Project No:

**Parliamentary
Village**

Dwg No: IDT/BPCE/SD10	Date: 25-11-2024	Revision No: C
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CONCRETE LAYOUT
SCALE 1:20

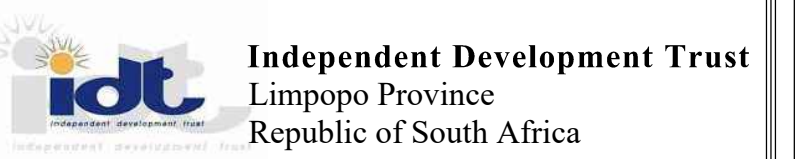
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REVISIONS:

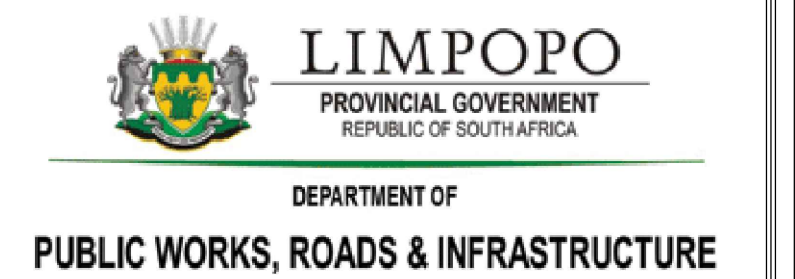
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LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

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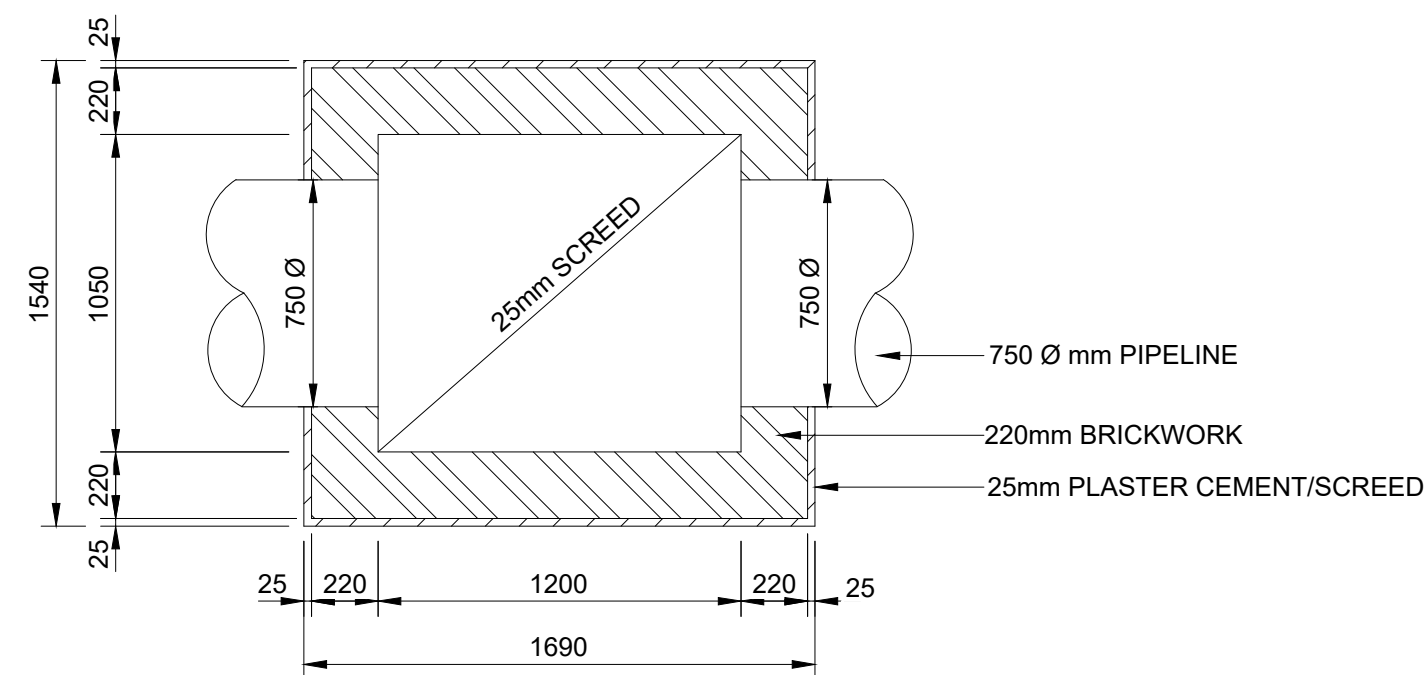
STANDARD DRAWING
KI UNITS STANDARDS
ALL ROADS

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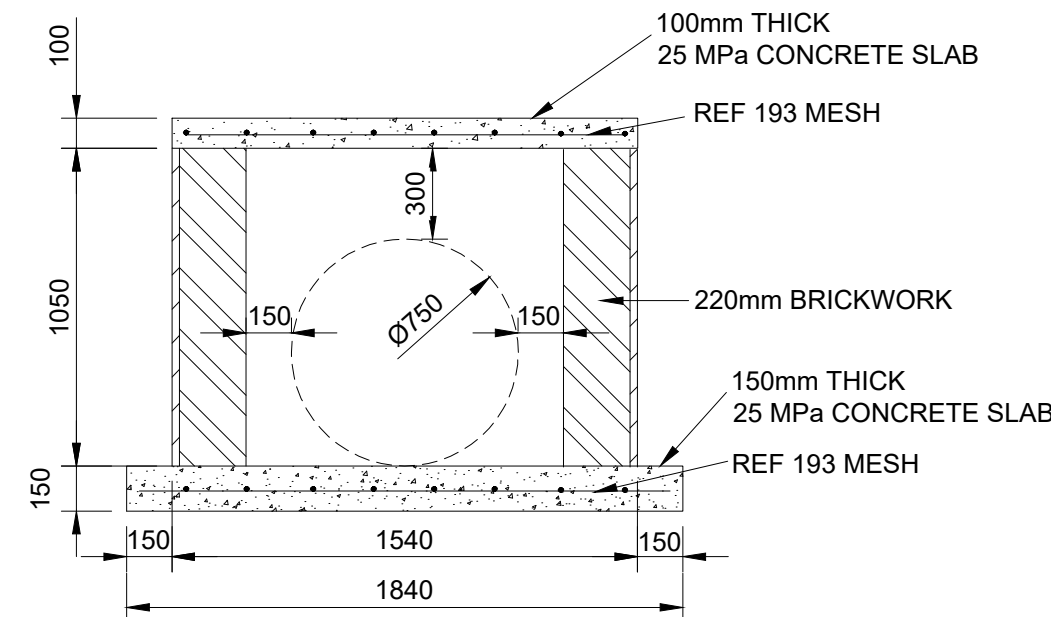
Project No:

Parliamentary
Village

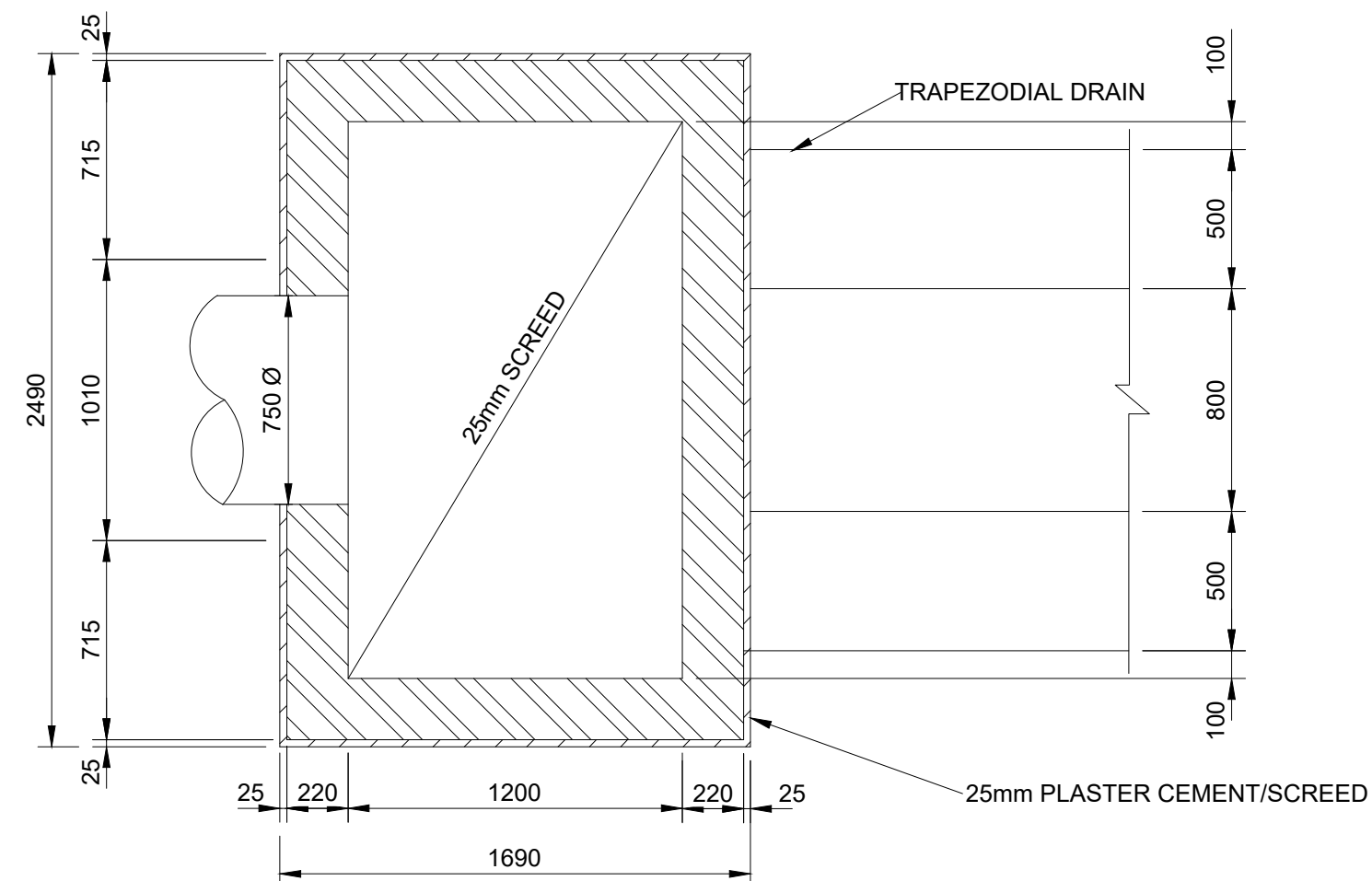
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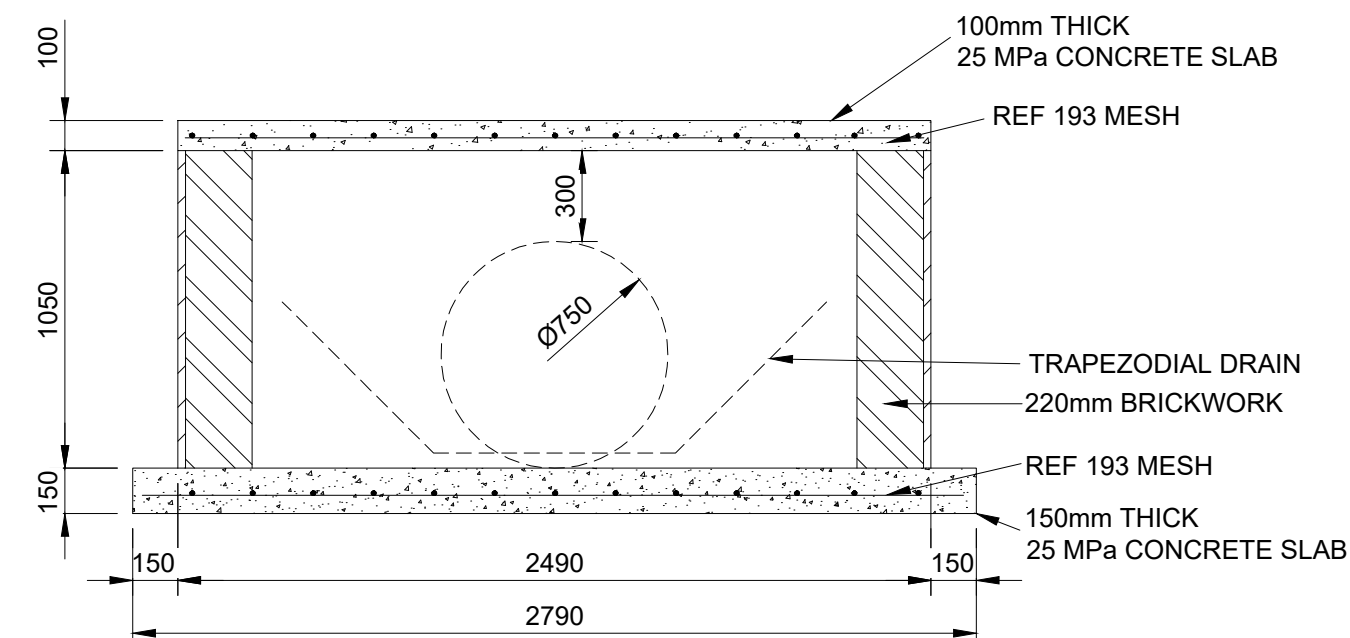
PLAN ON STORMWATER MANHOLE AT PIPELINE
SCALE 1:25



SECTION THROUGH STORMWATER MANHOLE AT PIPELINE
SCALE 1:25



PLAN ON STORMWATER MANHOLE AT DRAIN
SCALE 1:25



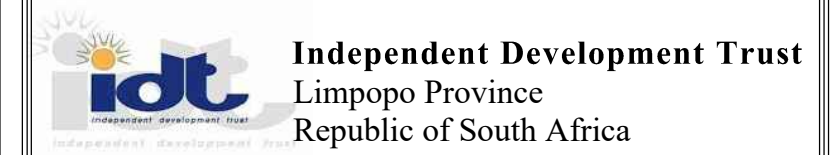
SECTION THROUGH STORMWATER MANHOLE AT DRAIN
SCALE 1:25

NOTES:

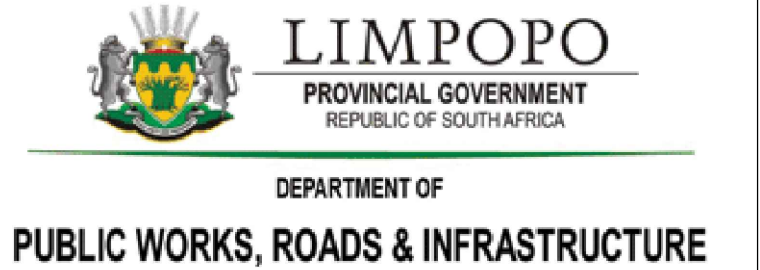
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Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

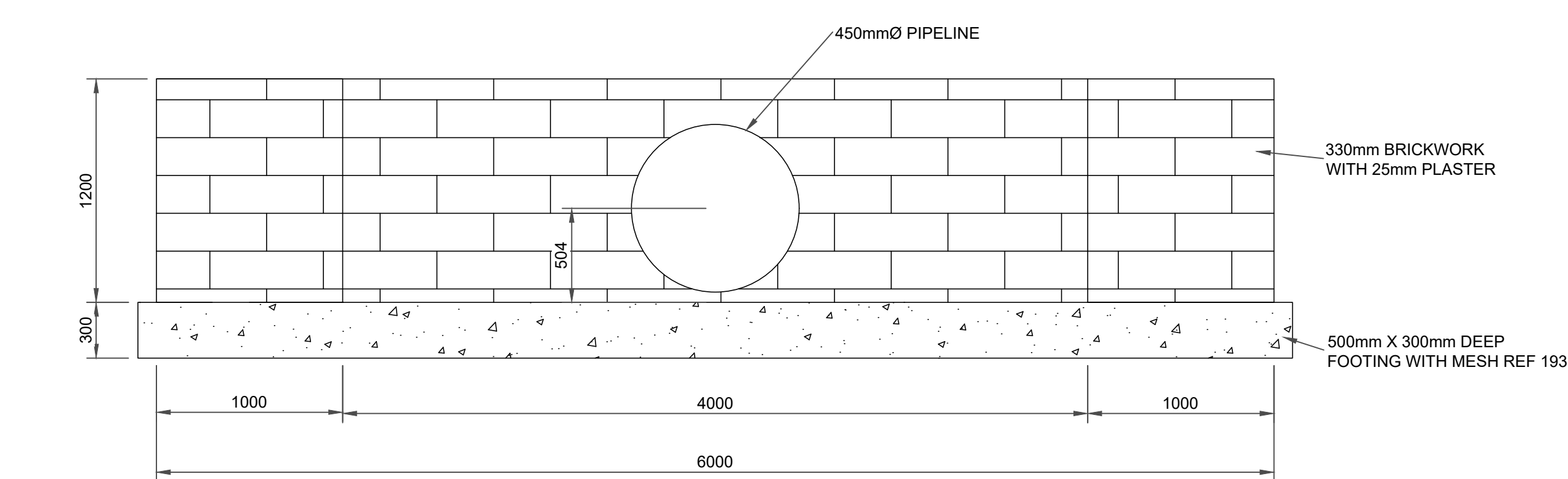
STANDARD DRAWING
STORMWATER
MANHOLE DETAILS

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Scale: AS SHOWN	Checked: LR

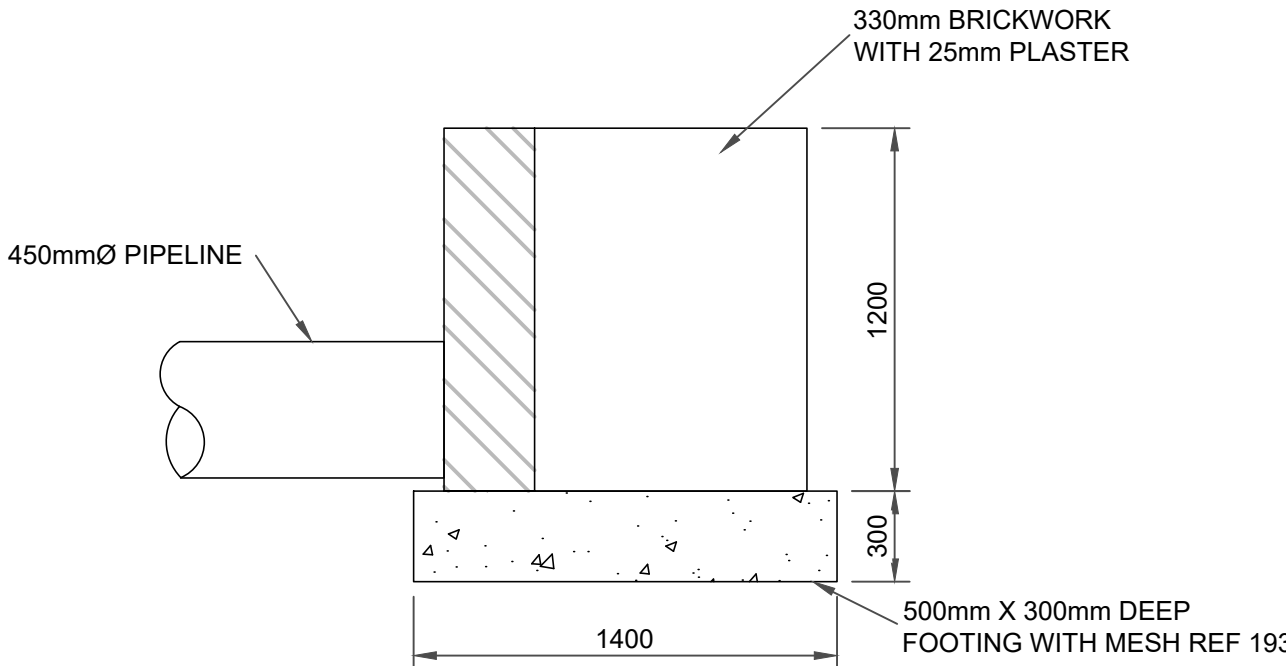
Project No:

Parliamentary
Village

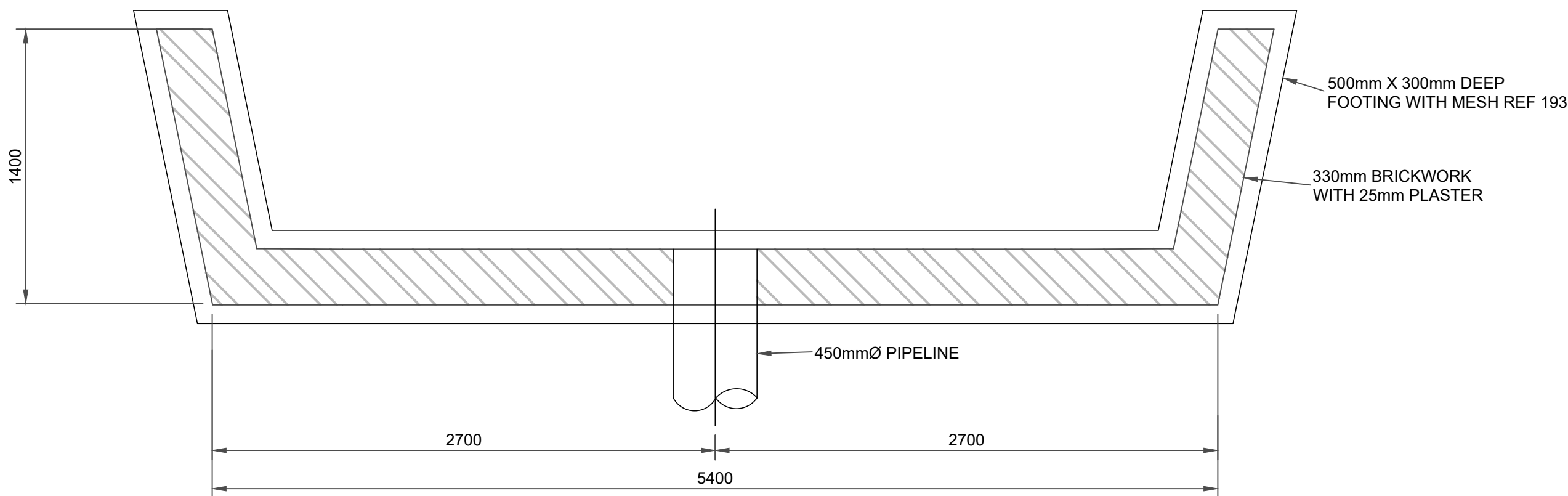
Dwg No: IDT/BPCE/SD12	Date: 25-11-2024	Revision No: C
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FRONT VIEW ON STORMWATER CATCHPIT
SCALE 1:25



SECTION ON STORMWATER CATCHPIT
SCALE 1:25



PLAN ON STORMWATER CATCHPIT
SCALE 1:25

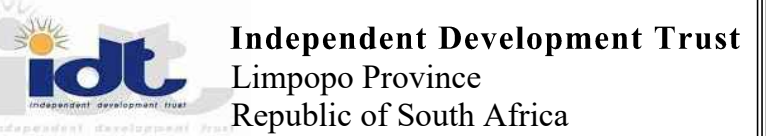
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REVISIONS:

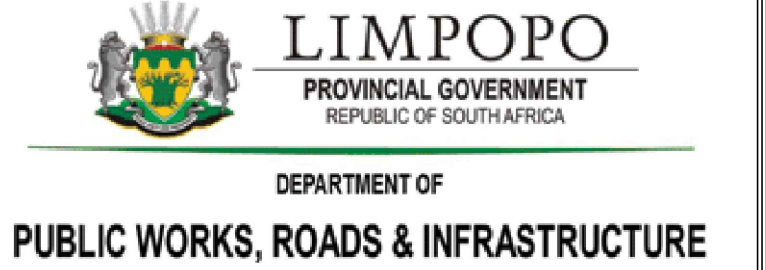
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LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

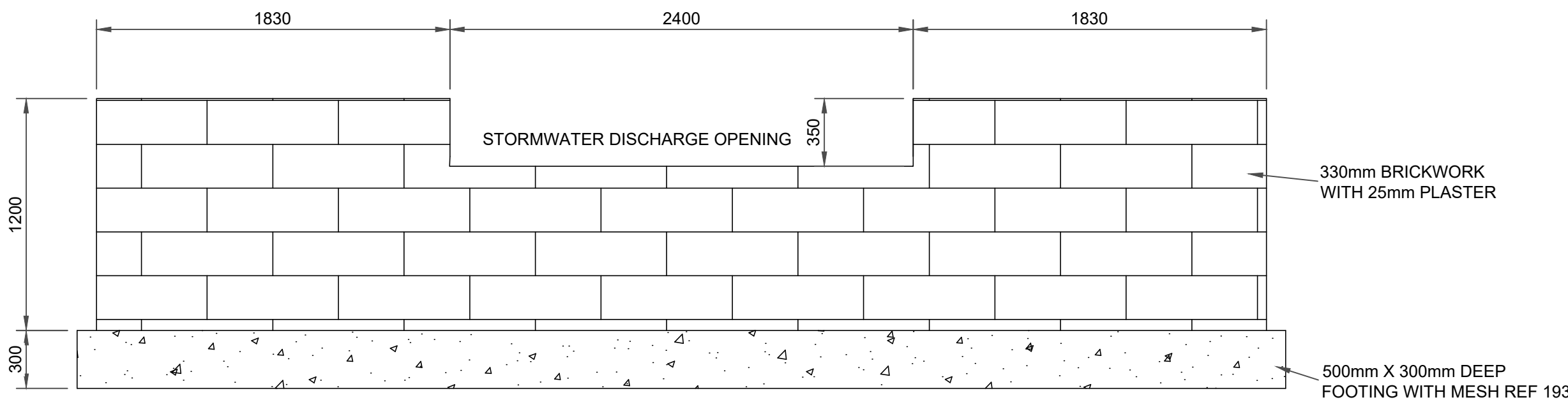
STANDARD DRAWING
STORMWATER
CATCHPIT DETAILS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

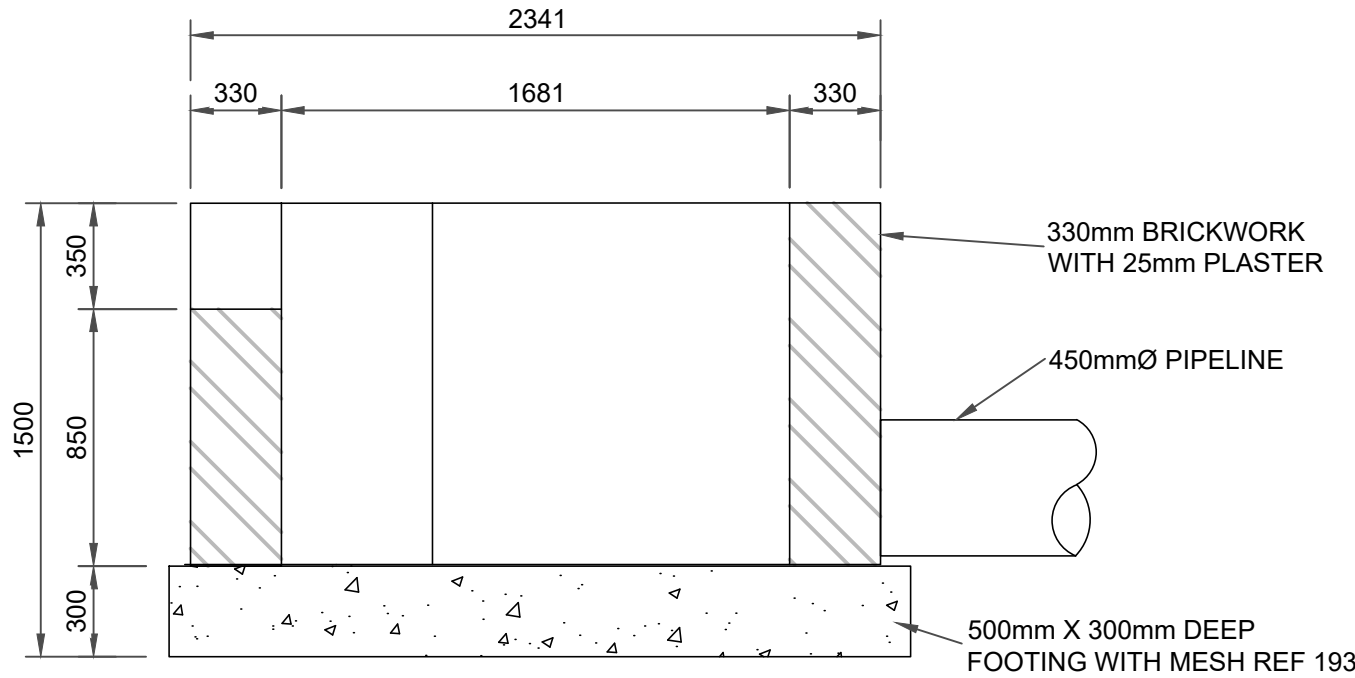
Project No:

Parliamentary
Village

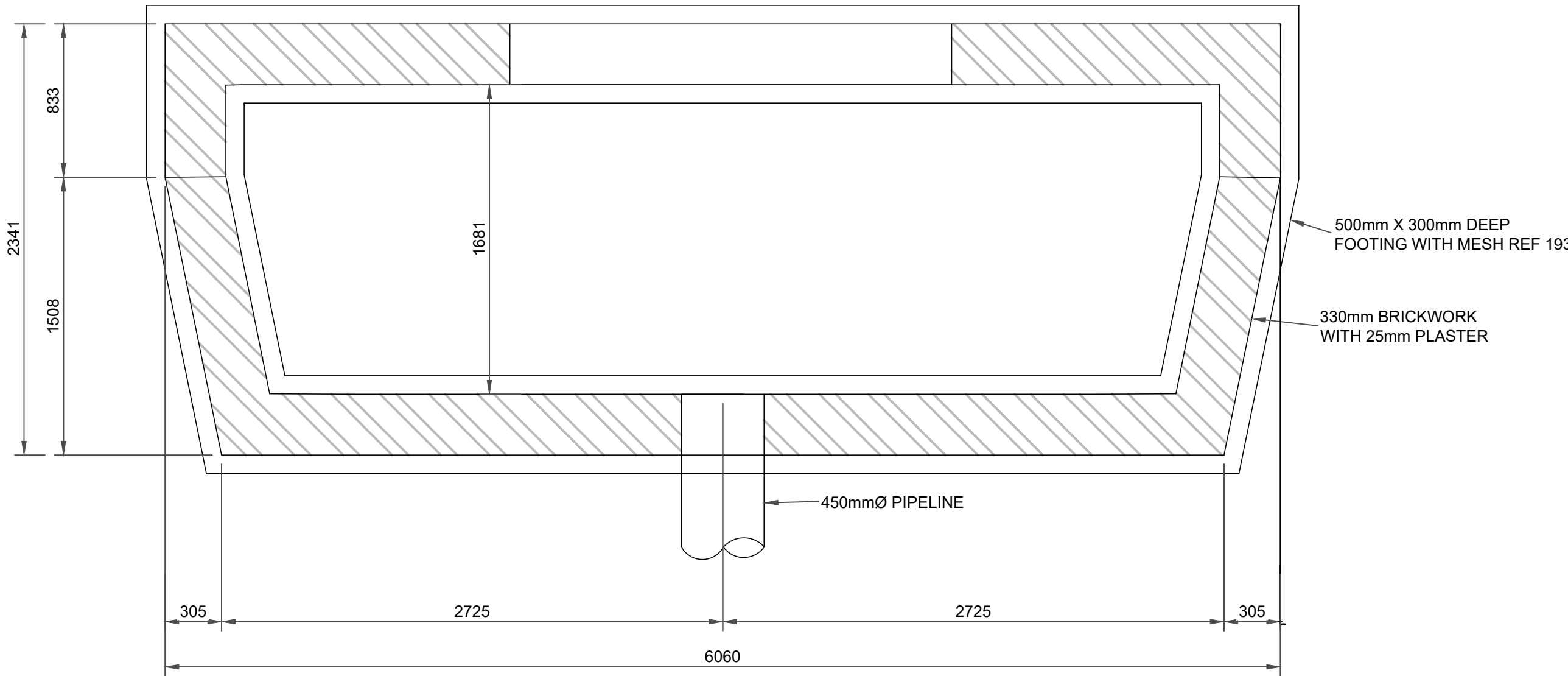
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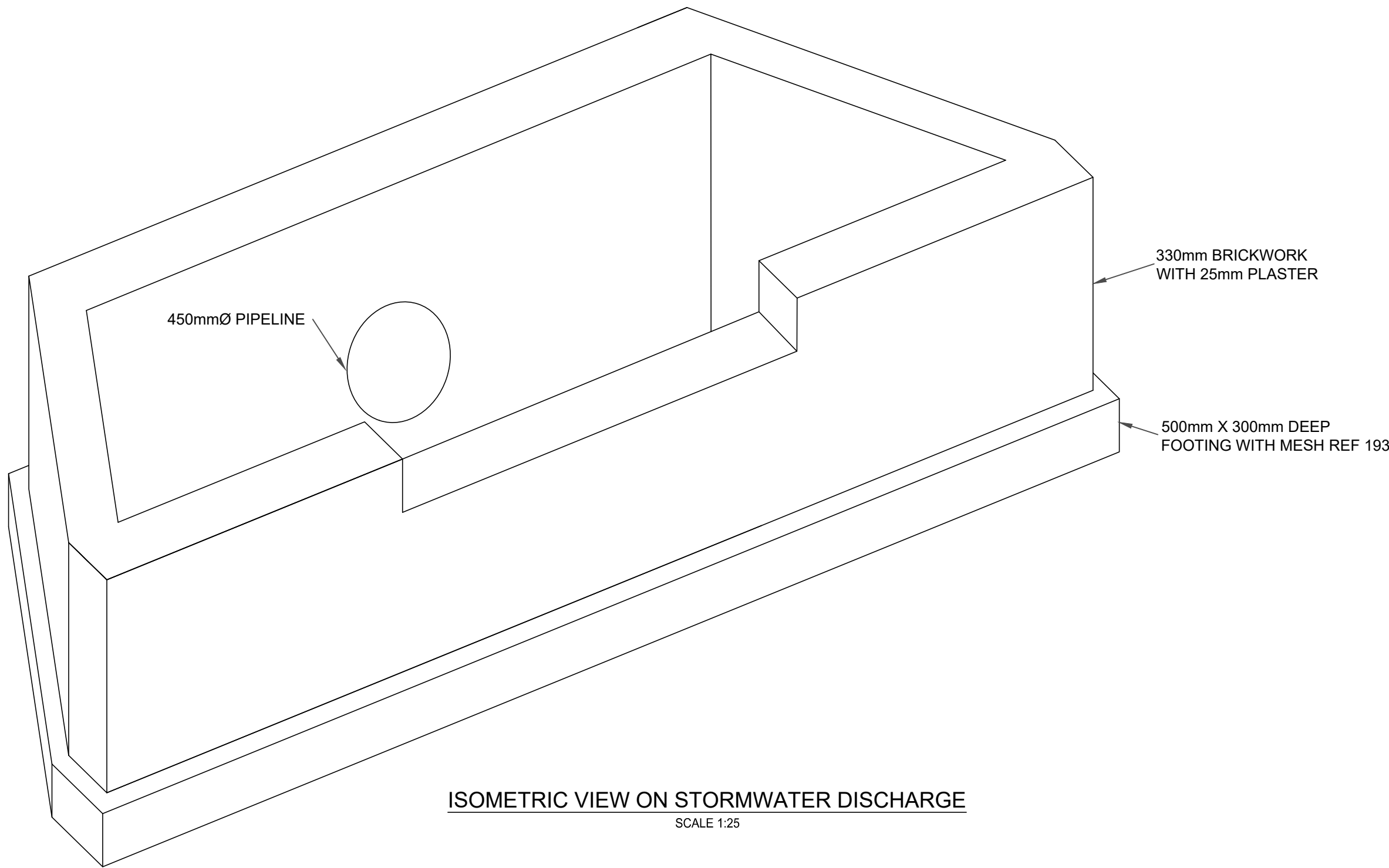
FRONT VIEW ON STORMWATER DISCHARGE CATCHPIT
SCALE 1:25



SECTION ON STORMWATER DISCHARGE
SCALE 1:25



PLAN ON STORMWATER DISCHARGE CATCHPIT
SCALE 1:25



ISOMETRIC VIEW ON STORMWATER DISCHARGE
SCALE 1:25

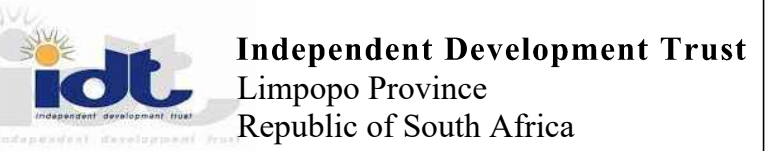
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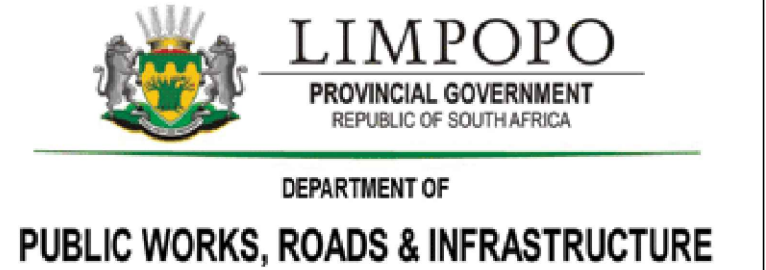
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C	26/03/2025	ISSUED FOR PDR APPROVAL

LEGEND:

Implementing Client:



User Client:



Consulting Engineers:



Project:

PROPOSED
DEVELOPMENT FOR
PARLIAMENTARY VILLAGE

Drawing Title:

STANDARD DRAWING
STORMWATER
CATCHPIT DETAILS

Designed: LR	Drawn: KN
Scale: AS SHOWN	Checked: LR

Project No:

Parliamentary
Village

Dwg No: IDT/BPCE/SD14	Date: 25-11-2024	Revision No: C
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