

X+3754700

Y+15100

Y+15000

KEYLEGEND:

- SINGLE ERF CONNECTION
- DOUBLE ERF CONNECTION
- SEWER MAIN LINE
- EXISTING SEWER MAIN LINE
- STORM WATER
- STORM WATER KERB INLET
- EXISTING STORM WATER

- NOTES:
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE RELEVANT SECTIONS OF SANS 1020.
 - ALL MATERIALS WILL BEAR THE SAN'S MARK OF APPROVAL AND MUST BE PROVIDED UPON REQUEST FROM THE ENGINEER.
 - DATA SHEETS FOR MATERIALS MUST BE PROVIDED UPON REQUEST FROM THE ENGINEER.
 - ALL COMPACTION TESTING IS TO BE DONE BY AS REQUESTED BY THE ENGINEER AND/OR OTHERS STIPULATED IN THE CONTRACT DOCUMENT. THE POSITION OF ALL EXISTING SERVICES AS SHOWN ON THE DRAWING IS ONLY A SCHEMATIC. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING SERVICES.
 - MANHOLE LEVELS ARE TO BE FINISHED FLUSH WITH FINAL GROUND LEVELS UNLESS OTHERWISE SHOWN.
 - PIPES
 - ALL MAIN LINES ARE TO BE Ø160mm uPVC CLASS 34 LAD AS PER THE DESIGN LEVELS. DESIGNATED LEVELS WILL TAKE PRECEDENCE OVER MANHOLE DEPTHS INDICATED ON THE DRAWING.
 - ALL ERF CONNECTIONS ARE TO BE Ø110mm uPVC CLASS 34 LAD AT A MINIMUM SLOPE OF 1:60 FROM ERF TO MAIN LINE.
 - SURVEY INFORMATION PROVIDED BY: JOUBERT & BIRN SURVEYS, WATCHEMERS STREET, PARKVIEW, 7900.
 - TEL: (021) 839 4478, E-MAIL: info@jbs.co.za
 - BENCHMARK INFORMATION: (CONSTANT - Y: 0.000 X: 3 700 000.000)

FOUL SEWER NETWORK MANHOLE SETTING OUT DATA

STRUCTURE NAME	Y	X	CL	IL	D
EX FSMH1	-15016.586	-3754603.063	177.609	178.361	1.686
EX FSMH2	-15022.841	-3754709.547	175.525	172.140	3.386
EX FSMH3	-15030.123	-3754746.245	177.670	167.850	3.820
EX FSMH4	-15027.496	-3754704.321	165.118	163.420	1.698
FSMH49	-15067.875	-3754626.024	182.530	180.840	1.690
FSMH40	-15043.803	-3754626.526	180.775	179.175	1.600
FSMH41	-15121.221	-3754703.401	181.540	179.740	1.800
FSMH42	-15068.550	-3754705.401	179.580	177.930	1.750
FSMH43	-15118.873	-3754740.816	175.640	174.000	1.640
FSMH44	-15057.578	-3754744.550	173.870	171.080	2.790
FSMH45	-15050.891	-3754702.487	168.950	167.230	1.720
FSMH46	-15060.537	-3754702.292	166.780	165.070	1.720
FSMH47	-15044.825	-3754646.246	183.280	181.340	1.940
FSMH48	-15068.836	-3754603.506	181.880	179.970	1.910
FSMH49	-15048.511	-3754600.164	179.880	177.190	1.790
FSMH50	-15047.287	-3754787.737	176.622	175.022	1.600
FSMH51	-15045.889	-3754764.420	174.866	173.266	1.600
FSMH52	-15044.747	-3754745.365	173.140	171.380	2.760
FSMH53	-15043.403	-3754722.057	169.000	166.400	2.600
FSMH54	-15042.476	-3754703.475	169.130	164.270	1.860

New Sewer Manhole Tie Into new ablation block with 110mm Dia upvc CL34 pipes

ABLUTION BLOCK as per drawing AB-0001. Connect Sewer and water to existing ERF connections. Engineer will indicate these points on site.

New Sewer MH to Tie into existing 110mm dia ERF connection.

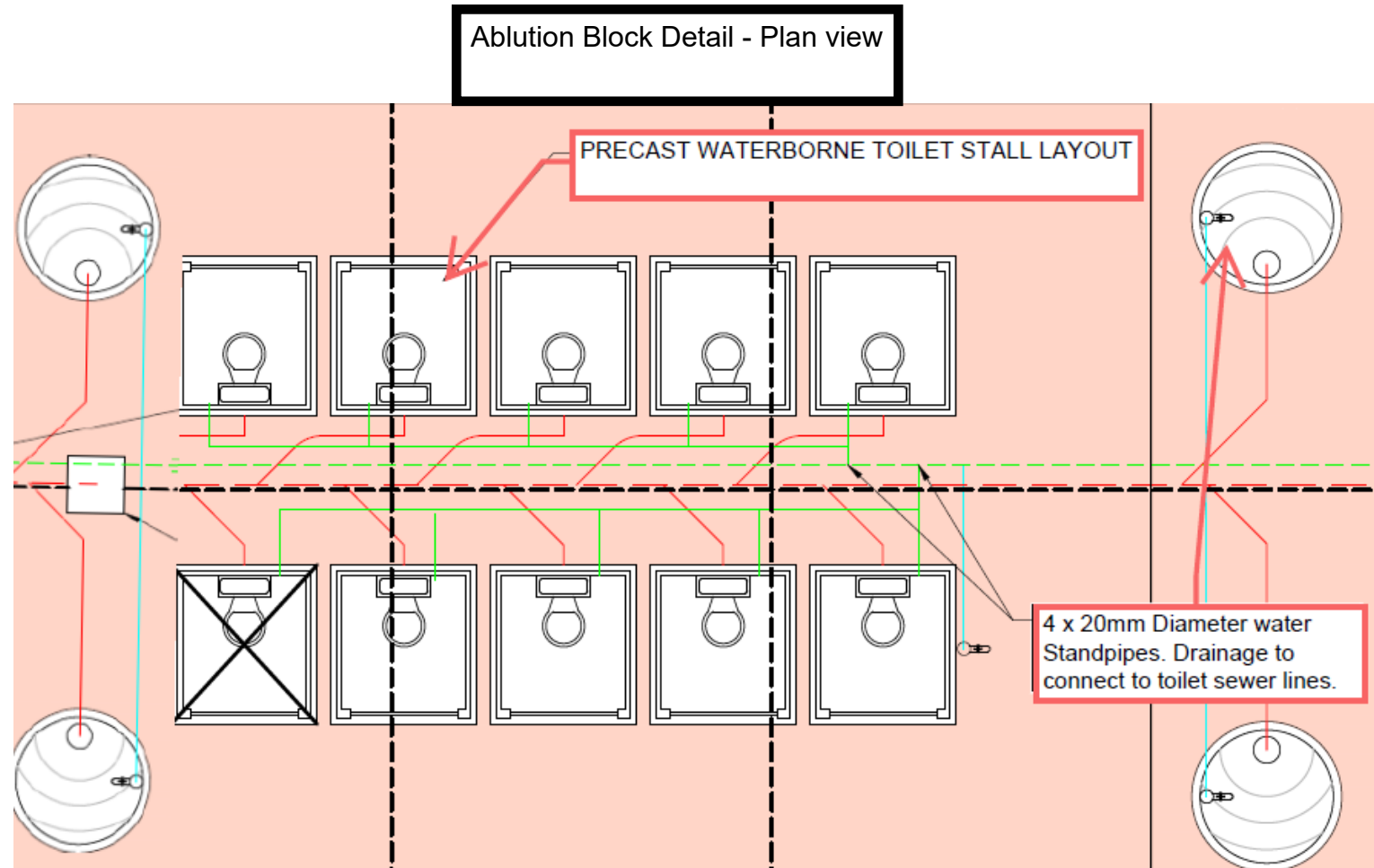
ABLUTION BLOCK as per drawing AB-0001. Connect Sewer and water to existing ERF connections. Engineer will indicate these points on site.

X+3754800

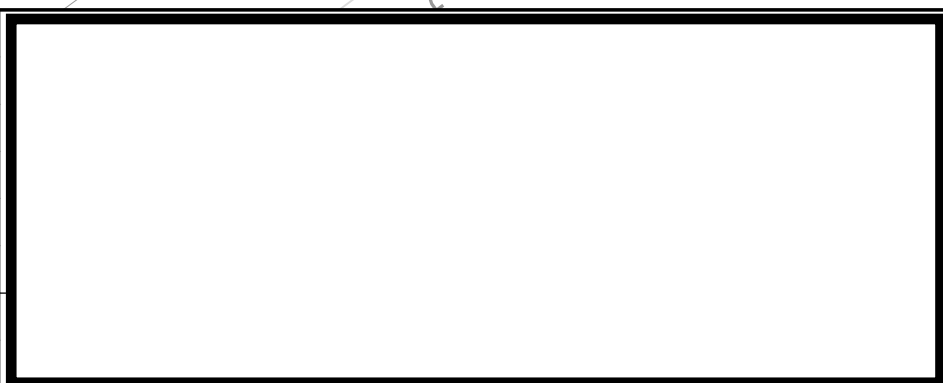
X+3754800

Y+14900

Y+14900



Revision	Date	Description
0	13 JAN '16	FOR CONSTRUCTION

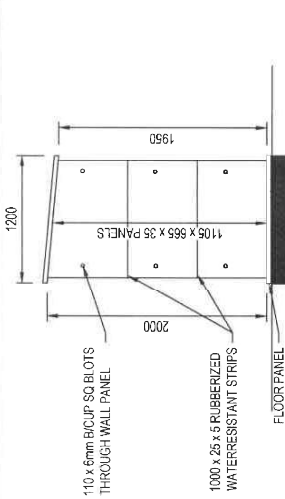


STELLENBOSCH
STELLENBOSCH • PNIEL • FRANSCHHOEK
MUNISIPALITEIT • UMASIPATA • MUNICIPALITY

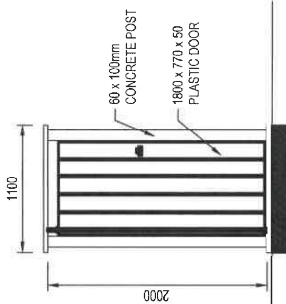
WATERGANG LOW COST HOUSING DEVELOPMENT

Designed	REL	Scale	AS SHOWN
Drawn	REL	Date	
Checked	BS		

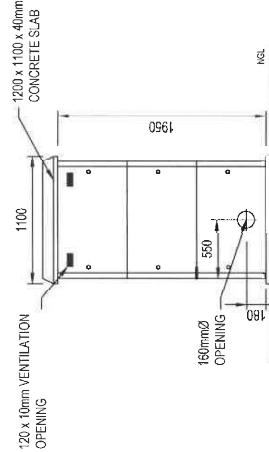
Contract No.	14016	Revision No.	Z
Drawing No.	14016/C/201		



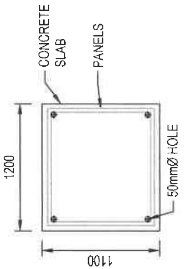
SIDE ELEVATION 1:40



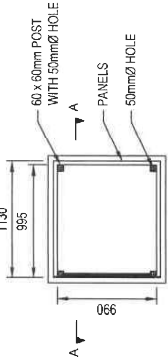
FRONT ELEVATION 1:40



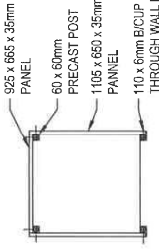
REAR ELEVATION 1:40



ROOF PLAN 1:25

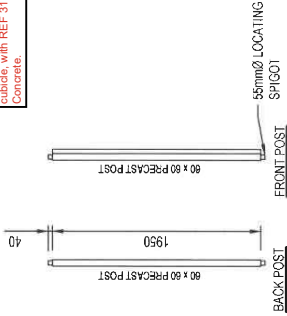


PLAN OF TOILET 1:25



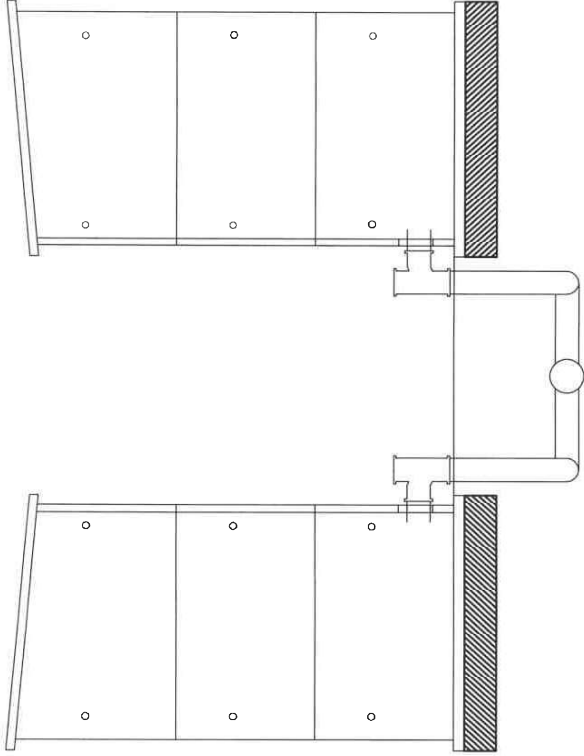
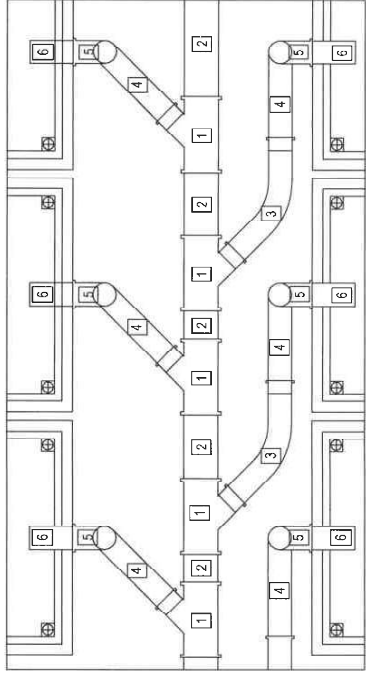
SECTION A - A

(1.5m wide X 6m long x 0.15m thick > Concrete foundation below precast cubicle, with REF 311 Mesh, 25 MPA Concrete.



PRECAST POSTS DETAIL 1:30

SECTION VIEW OF TOILET STALLS AND DRAINAGE PIPES
SCALE 1:25



PIPES AND FITTINGS LAYOUT
SCALE 1:25

- ITEMS:
- 160x110mmØ uPVC CLASS 34 Y-JUNCTION
 - 160mmØ uPVC CLASS 34 PIPE
 - 110mmØ uPVC CLASS 34 LONG RADI BEND (HORIZONTAL)
 - 110mmØ uPVC CLASS 34 LONG RADI BEND (VERTICAL)
 - 110mmØ uPVC CLASS 34 90° BEND
 - WITH ACCESS HEEL (FOR 8 OUT OF 10 STALLS PER PLATFORM)
 - WITH VENT PIPE TO SOFFIT LEVEL (FOR 2 OUT OF 10 STALLS PER PLATFORM, ONE EITHER SIDE)
 - 110mmØ uPVC CLASS 34 PIPE CONNECTED TO TOILET
- NOTE:
- 110mmØ uPVC CLASS 34 PIPE EXTENSION PIECE IS REQUIRED BETWEEN ITEMS 4 AND 5
 - MANTAIN MINIMUM 1:50 SLOPE FOR ALL PIPES AND FITTINGS

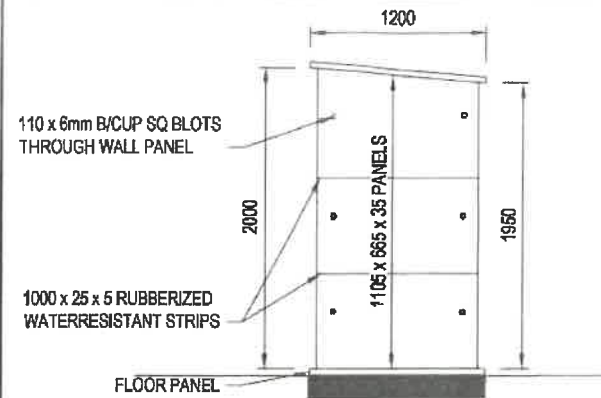
- ALL WORK MUST BE DONE IN ACCORDANCE WITH THE STANDARD SANS 1000 SPECIFICATION AND THIS PROJECT'S APPLICABLE CONTRACT DOCUMENTATION.
- ALL MODIFICATIONS TO EXISTING SERVICES AND DEVIATIONS FROM THE DESIGN TO BE AS PER INSTRUCTION FROM THE ENGINEER ONLY.
- ALL DISCREPANCIES ON DRAWINGS TO BE CLARIFIED WITH THE RESIDENT ENGINEER ON SITE PRIOR TO CONSTRUCTION.
- UNLESS OTHERWISE SPECIFIED, THE FOLLOWING SHALL APPLY:
 - ALL CONCRETE TO BE 25MPa/19mm
 - CEMENT:SAND RATIO OF MORTAR TO BE 1:3
- ALL MANHOLE COVERS AND TOP SLABS TO CONFORM TO ROAD, WALKWAY AND SIDEWALK LEVELS.
- FRAME TO BE CAST IN WITH SLAB.
- FOUL SEWER PIPE SOFFIT LEVELS TO BE EQUAL, EXCEPT WHERE OTHERWISE INDICATED.
- ALL PIPES AND FITTINGS TO BE CLASS 34 UPVC

CLIENT

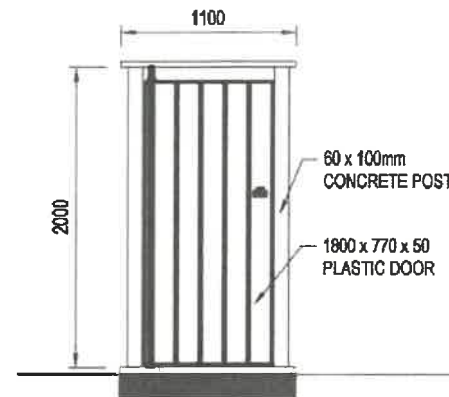


STANDARD ABLUTION & CONCRETE TOILET
CUBICLE DESIGN

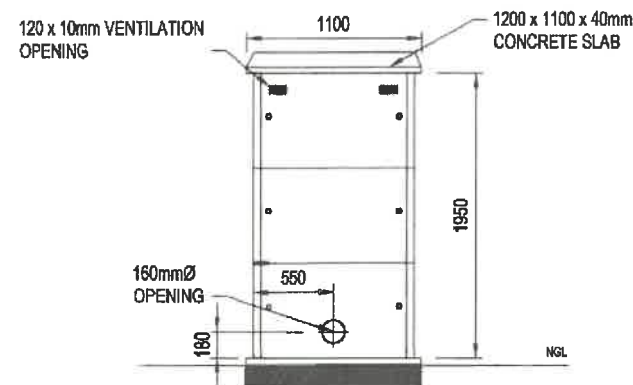
DRAWING: AB-0001



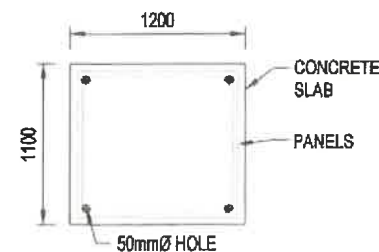
SIDE ELEVATION 1:40



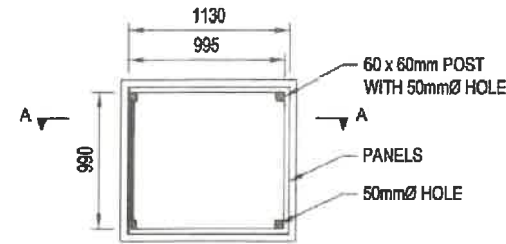
FRONT ELEVATION 1:40



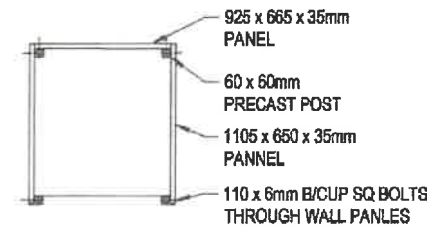
REAR ELEVATION 1:40



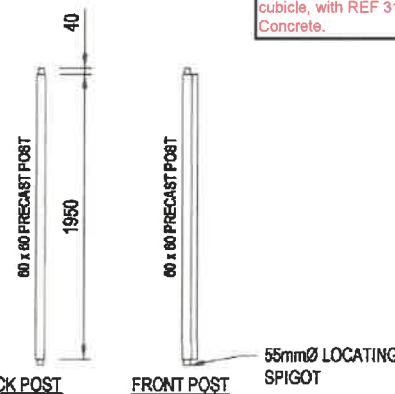
ROOF PLAN 1:25



PLAN OF TOILET 1:25

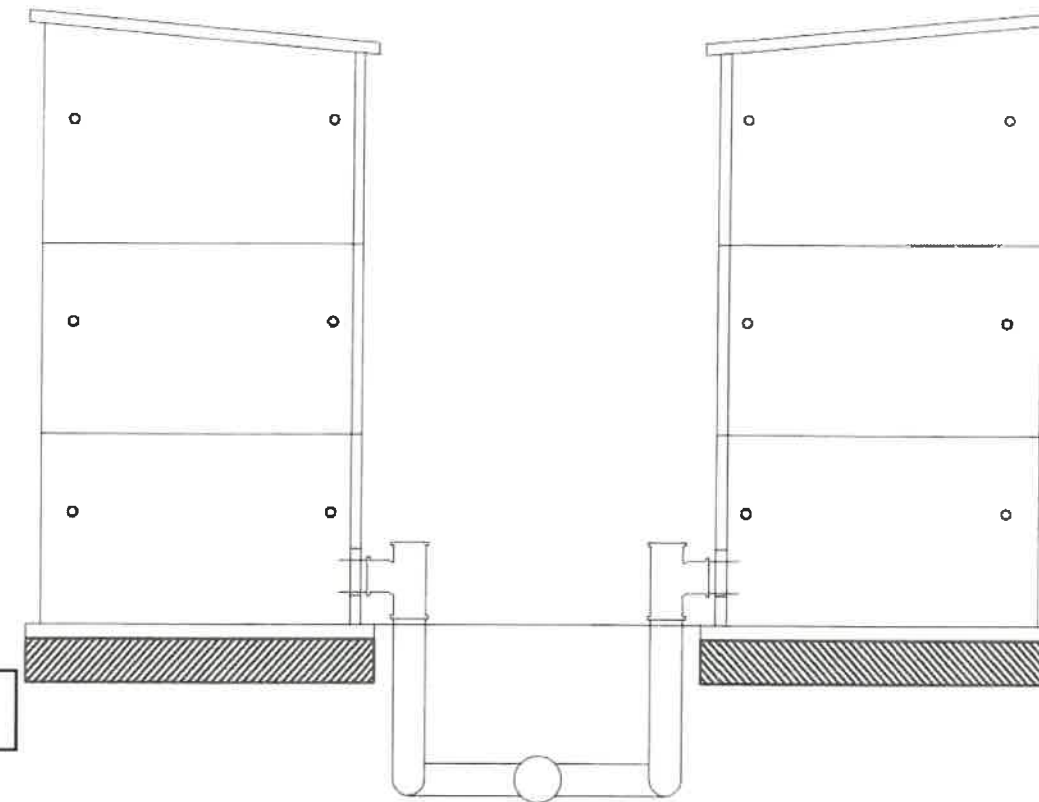


SECTION A - A

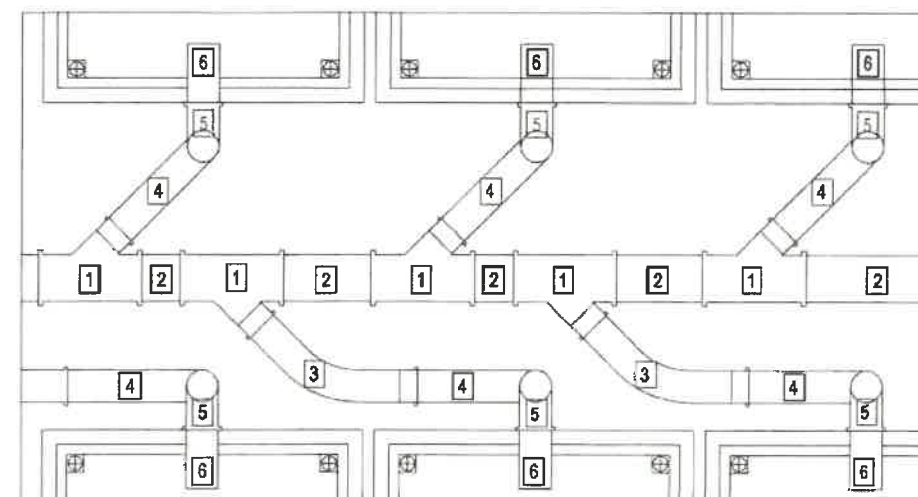


PRECAST POSTS DETAIL 1:30

(1.5m wide X 6m long x 0.15m thick > Concrete foundation below precast cubicle, with REF 311 Mesh, 25 MPA Concrete.



SECTION VIEW OF TOILET STALLS AND DRAINAGE PIPES



PIPES AND FITTINGS LAYOUT

ITEMS:

- 160x110mmØ uPVC CLASS 34 Y-JUNCTION
- 160mmØ uPVC CLASS 34 PIPE
- 110mmØ uPVC CLASS 34 LONG RADII BEND (HORIZONTAL)
- 110mmØ uPVC CLASS 34 LONG RADII BEND (VERTICAL)
- 110mmØ uPVC CLASS 34 90° BEND
- 5.1. WITH ACCESS HEEL (FOR 8 OUT OF 10 STALLS PER PLATFORM)
- 5.2. WITH VENT PIPE TO SOFFIT LEVEL (FOR 2 OUT OF 10 STALLS PER PLATFORM, ONE EITHER SIDE)
- 110mmØ uPVC CLASS 34 PIPE CONNECTED TO TOILET

NOTE:

- 110mmØ uPVC CLASS 34 PIPE EXTENSION PIECE IS REQUIRED BETWEEN ITEMS 4 AND 5
- MAINTAIN MINIMUM 1:60 SLOPE FOR ALL PIPES AND FITTINGS

- ALL WORK MUST BE DONE IN ACCORDANCE WITH THE STANDARD SANS 1200 SPECIFICATION AND THIS PROJECT'S APPLICABLE CONTRACT DOCUMENTATION.
- ALL MODIFICATIONS TO EXISTING SERVICES AND DEVIATIONS FROM THE DESIGN TO BE AS PER INSTRUCTION FROM THE ENGINEER ONLY.
- ALL DISCREPANCIES ON DRAWINGS TO BE CLARIFIED WITH THE RESIDENT ENGINEER ON SITE PRIOR TO CONSTRUCTION.
- UNLESS OTHERWISE SPECIFIED, THE FOLLOWING SHALL APPLY:
 - ALL CONCRETE TO BE 25MPa/19mm
 - CEMENT:SAND RATIO OF MORTAR TO BE 1:3
- ALL MANHOLE COVERS AND TOP SLABS TO CONFORM TO ROAD, WALKWAY AND SIDEWALK LEVELS.
- FRAME TO BE CAST IN WITH SLAB.
- FOUL SEWER PIPE SOFFIT LEVELS TO BE EQUAL, EXCEPT WHERE OTHERWISE INDICATED.
- ALL PIPES AND FITTINGS TO BE CLASS 34 UPVC

CLIENT



STELLENBOSCH
 STELLENBOSCH • PHIL • FRANSCHOSK
 MUNISIPALITEIT • UMABAPALA • MUNICIPALITY

STANDARD ABLUTION & CONCRETE TOILET CUBICLE DESIGN

DRAWING: AB-0001



Y+15100

Y+15000

KEYLEGEND:

- SINGLE ERF CONNECTION
- DOUBLE ERF CONNECTION
- SEWER MAIN LINE
- EXISTING SEWER MAIN LINE
- STORM WATER
- STORM WATER KERB INLET
- EXISTING STORM WATER

NOTES:

- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE RELEVANT SECTIONS OF SANS 1040.
- ALL MATERIALS WILL BEAT THE SAME MARK OF APPROVAL AND MUST BE PROVIDED UPON REQUEST FROM THE ENGINEER.
- DATA SHEETS FOR MATERIALS MUST BE PROVIDED UPON REQUEST FROM THE ENGINEER.
- ALL CONSTRUCTION TESTING IS TO BE DONE BY A REGISTERED CIVIL ENGINEER AND MUST BE PROVIDED UPON REQUEST FROM THE ENGINEER.
- ONLY SIGNIFICANT EXISTING SERVICES AS SHOWN ON THE DRAWING IS TO BE MAINTAINED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING SERVICES.
- MANHOLES ARE TO BE PROVIDED WITH PAVEMENT GRADIENTS UNLESS OTHERWISE SHOWN.
- ALL MAIN LINES ARE TO BE 150mm PVC U-PVC CL 150 AND ALL FOR THE DESIGN LEVELS. DEREGULATED LEVELS WILL TAKE PRECEDENCE OVER MANHOLE SETTING DATA ON THE DRAWING.
- ALL ERF CONNECTIONS ARE TO BE 150mm PVC U-PVC CL 150 AND AT A MINIMUM SLOPE OF 1:100 FOR 150mm U-PVC CL 150.
- ALL ERF CONNECTIONS ARE TO BE 150mm PVC U-PVC CL 150 AND AT A MINIMUM SLOPE OF 1:100 FOR 150mm U-PVC CL 150.
- ALL ERF CONNECTIONS ARE TO BE 150mm PVC U-PVC CL 150 AND AT A MINIMUM SLOPE OF 1:100 FOR 150mm U-PVC CL 150.

POINT	X	Y	CL	IL	D
101	14735.1	54 985.38	150	150	150
102	14735.1	54 985.38	150	150	150
103	14735.1	54 985.38	150	150	150
104	14735.1	54 985.38	150	150	150
105	14735.1	54 985.38	150	150	150

STRUCTURE NAME	Y	X	CL	IL	D
EX FSH01	15018.28	173433.28	150	150	150
EX FSH02	15018.28	173433.28	150	150	150
EX FSH03	15018.28	173433.28	150	150	150
EX FSH04	15018.28	173433.28	150	150	150
EX FSH05	15018.28	173433.28	150	150	150
EX FSH06	15018.28	173433.28	150	150	150
EX FSH07	15018.28	173433.28	150	150	150
EX FSH08	15018.28	173433.28	150	150	150
EX FSH09	15018.28	173433.28	150	150	150
EX FSH10	15018.28	173433.28	150	150	150
EX FSH11	15018.28	173433.28	150	150	150
EX FSH12	15018.28	173433.28	150	150	150
EX FSH13	15018.28	173433.28	150	150	150
EX FSH14	15018.28	173433.28	150	150	150
EX FSH15	15018.28	173433.28	150	150	150
EX FSH16	15018.28	173433.28	150	150	150
EX FSH17	15018.28	173433.28	150	150	150
EX FSH18	15018.28	173433.28	150	150	150
EX FSH19	15018.28	173433.28	150	150	150
EX FSH20	15018.28	173433.28	150	150	150
EX FSH21	15018.28	173433.28	150	150	150
EX FSH22	15018.28	173433.28	150	150	150
EX FSH23	15018.28	173433.28	150	150	150
EX FSH24	15018.28	173433.28	150	150	150
EX FSH25	15018.28	173433.28	150	150	150
EX FSH26	15018.28	173433.28	150	150	150
EX FSH27	15018.28	173433.28	150	150	150
EX FSH28	15018.28	173433.28	150	150	150
EX FSH29	15018.28	173433.28	150	150	150
EX FSH30	15018.28	173433.28	150	150	150
EX FSH31	15018.28	173433.28	150	150	150
EX FSH32	15018.28	173433.28	150	150	150
EX FSH33	15018.28	173433.28	150	150	150
EX FSH34	15018.28	173433.28	150	150	150
EX FSH35	15018.28	173433.28	150	150	150
EX FSH36	15018.28	173433.28	150	150	150
EX FSH37	15018.28	173433.28	150	150	150
EX FSH38	15018.28	173433.28	150	150	150
EX FSH39	15018.28	173433.28	150	150	150
EX FSH40	15018.28	173433.28	150	150	150
EX FSH41	15018.28	173433.28	150	150	150
EX FSH42	15018.28	173433.28	150	150	150
EX FSH43	15018.28	173433.28	150	150	150
EX FSH44	15018.28	173433.28	150	150	150
EX FSH45	15018.28	173433.28	150	150	150
EX FSH46	15018.28	173433.28	150	150	150
EX FSH47	15018.28	173433.28	150	150	150
EX FSH48	15018.28	173433.28	150	150	150
EX FSH49	15018.28	173433.28	150	150	150
EX FSH50	15018.28	173433.28	150	150	150
EX FSH51	15018.28	173433.28	150	150	150
EX FSH52	15018.28	173433.28	150	150	150
EX FSH53	15018.28	173433.28	150	150	150
EX FSH54	15018.28	173433.28	150	150	150
EX FSH55	15018.28	173433.28	150	150	150
EX FSH56	15018.28	173433.28	150	150	150
EX FSH57	15018.28	173433.28	150	150	150
EX FSH58	15018.28	173433.28	150	150	150
EX FSH59	15018.28	173433.28	150	150	150
EX FSH60	15018.28	173433.28	150	150	150
EX FSH61	15018.28	173433.28	150	150	150
EX FSH62	15018.28	173433.28	150	150	150
EX FSH63	15018.28	173433.28	150	150	150
EX FSH64	15018.28	173433.28	150	150	150
EX FSH65	15018.28	173433.28	150	150	150
EX FSH66	15018.28	173433.28	150	150	150
EX FSH67	15018.28	173433.28	150	150	150
EX FSH68	15018.28	173433.28	150	150	150
EX FSH69	15018.28	173433.28	150	150	150
EX FSH70	15018.28	173433.28	150	150	150
EX FSH71	15018.28	173433.28	150	150	150
EX FSH72	15018.28	173433.28	150	150	150
EX FSH73	15018.28	173433.28	150	150	150
EX FSH74	15018.28	173433.28	150	150	150
EX FSH75	15018.28	173433.28	150	150	150
EX FSH76	15018.28	173433.28	150	150	150
EX FSH77	15018.28	173433.28	150	150	150
EX FSH78	15018.28	173433.28	150	150	150
EX FSH79	15018.28	173433.28	150	150	150
EX FSH80	15018.28	173433.28	150	150	150
EX FSH81	15018.28	173433.28	150	150	150
EX FSH82	15018.28	173433.28	150	150	150
EX FSH83	15018.28	173433.28	150	150	150
EX FSH84	15018.28	173433.28	150	150	150
EX FSH85	15018.28	173433.28	150	150	150
EX FSH86	15018.28	173433.28	150	150	150
EX FSH87	15018.28	173433.28	150	150	150
EX FSH88	15018.28	173433.28	150	150	150
EX FSH89	15018.28	173433.28	150	150	150
EX FSH90	15018.28	173433.28	150	150	150
EX FSH91	15018.28	173433.28	150	150	150
EX FSH92	15018.28	173433.28	150	150	150
EX FSH93	15018.28	173433.28	150	150	150
EX FSH94	15018.28	173433.28	150	150	150
EX FSH95	15018.28	173433.28	150	150	150
EX FSH96	15018.28	173433.28	150	150	150
EX FSH97	15018.28	173433.28	150	150	150
EX FSH98	15018.28	173433.28	150	150	150
EX FSH99	15018.28	173433.28	150	150	150
EX FSH100	15018.28	173433.28	150	150	150

X+3754700

X+3754700

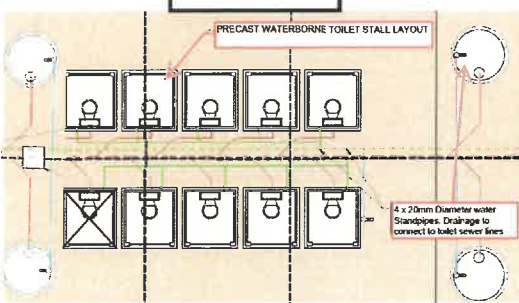
Y+14900

3722

X+3754800

X+3754800

Ablution Block Detail - Plan view



Revision	Date	Description
0	13 JAN 16	FOR CONSTRUCTION



WATERGANG LOW COST HOUSING DEVELOPMENT

PROPOSED FOUL SEWER NETWORK LAYOUT
PHASE C

Designed	REL	Scale	AS SHOWN
Drawn	REL	Date	
Checked	BS		

Contract No 14016
Drawing No 14016/C/201

Revision No Z

NOTE:

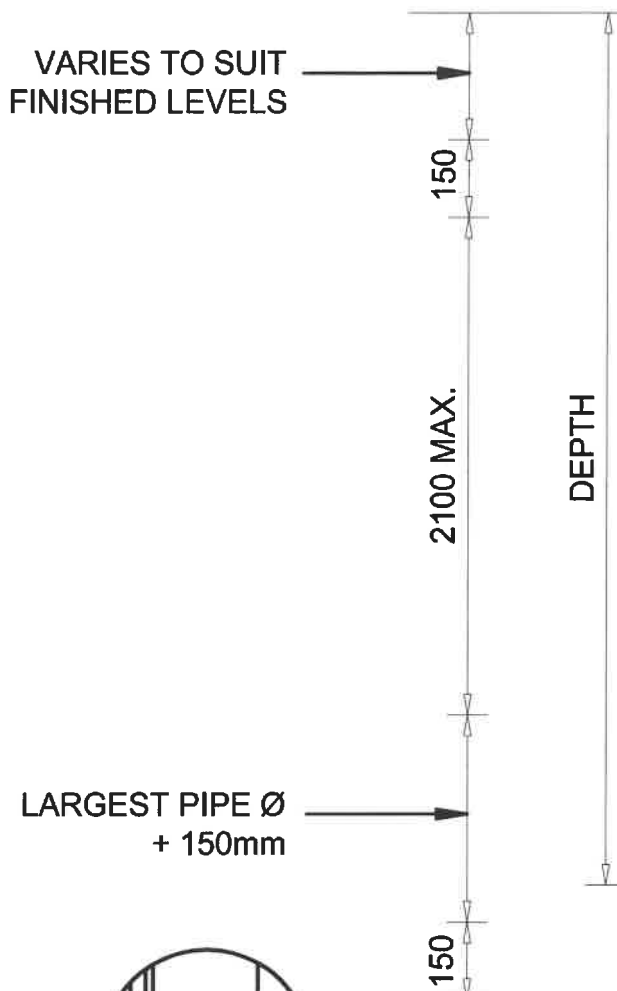
THE PREFERRED MANHOLE TYPE IS THE PRECAST FIBRE CEMENT TYPE (DRAWING NO. SS1). USE OF THE PRECAST CONCRETE MANHOLE IS TO BE APPROVED BY THE WATER SERVICES DEPARTMENT.

COVER AND FRAME: HINGED DUCTILE IRON: SAINT GOBAIN SECUREX Z-600 D (SANS 50124 CLASS D400) OR SIMILAR APPROVED. HINGED - TO BE SECURED AND NON REMOVABLE

FINISHED LEVEL IN ROADS, SIDEWALKS AND OTHER SURFACED AREAS

FINISHED LEVEL IN UNSURFACED AREAS

VARIES TO SUIT FINISHED LEVELS



150

2100 MAX.

DEPTH

200 MIN

560mmØ

13mm PLASTER (1 : 3) ON BOTH SIDES

1:6 MIN

LARGEST PIPE Ø + 150mm

150

75 230

1000

230 75

110mm BRICKWORK SHAFT SET IN 1:3 CEMENT MORTAR

150mm PRECAST COVER SLAB 25MPa/ 19mm

1000mmØ PRECAST CONCRETE RINGS

BENCHING 15 MPa CONCRETE WITH STEEL FLOAT FINISH

230mm BRICKWORK WITH SABS APPROVED BRICKS COMPLETELY PLASTERED INSIDE AND OUTSIDE.

FIBRE CEMENT SLEEVE JOINT BUILT INTO BRICKWORK

500mm LENGTH OF SEWER PIPE TO FORM FLEXIBLE JOINT

VITREOUS CLAY OR FIBRE CEMENT HALF ROUND CHANNELS

150mm BASE SLAB 25 MPa CONCRETE/ 19mm AGGREGATE

INTERLOCKING JOINT (NTS)

2 LAYER DENSO TAPE. TAPE WIDTH = 300mm

WATERPROOF INTERLOCKING JOINT BY SETTING IN 1:2 CEMENT MORTAR

NOTE:

1. STEP IRONS AT 300 c/c AND STAGGERED LEFT AND RIGHT
2. AGGREGATE FOR CONCRETE: DOLOMITIC



STELLENBOSCH

STELLENBOSCH • PNIEL • FRANSCHHOEK

MUNISIPALITEIT • UMASIPALA • MUNICIPALITY

STANDARD DETAIL DRAWING

SEWER MANHOLE : PRECAST CONCRETE

Scale

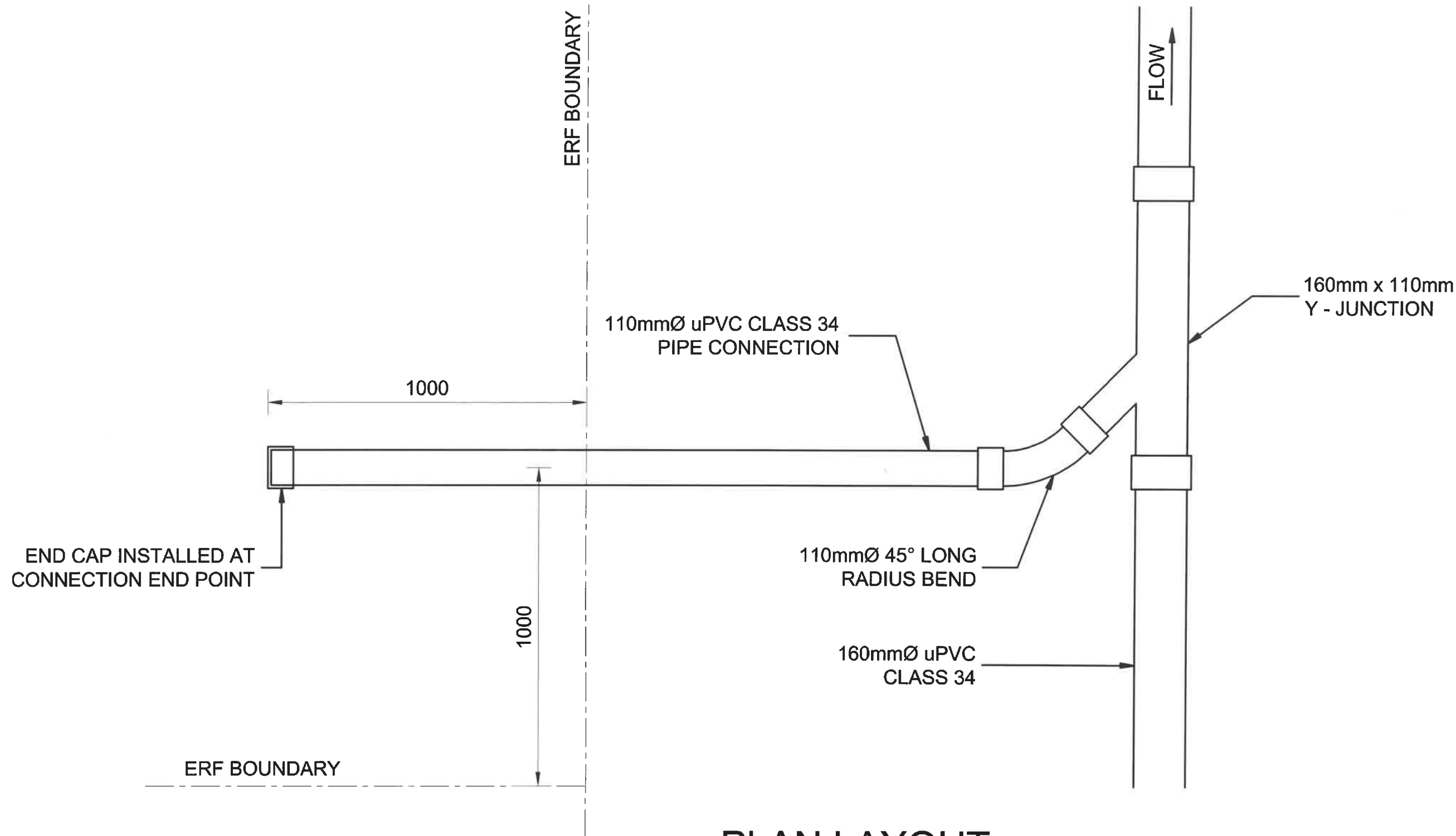
1 : 20

Paper Size

A4

Drawing No.

SS2



PLAN LAYOUT



STELLENBOSCH

STELLENBOSCH • PNIEL • FRANSCHHOEK

MUNISIPALITEIT • UMASIPALA • MUNICIPALITY

STANDARD DETAIL DRAWING

SEWER ERF CONNECTION LAYOUT

Scale

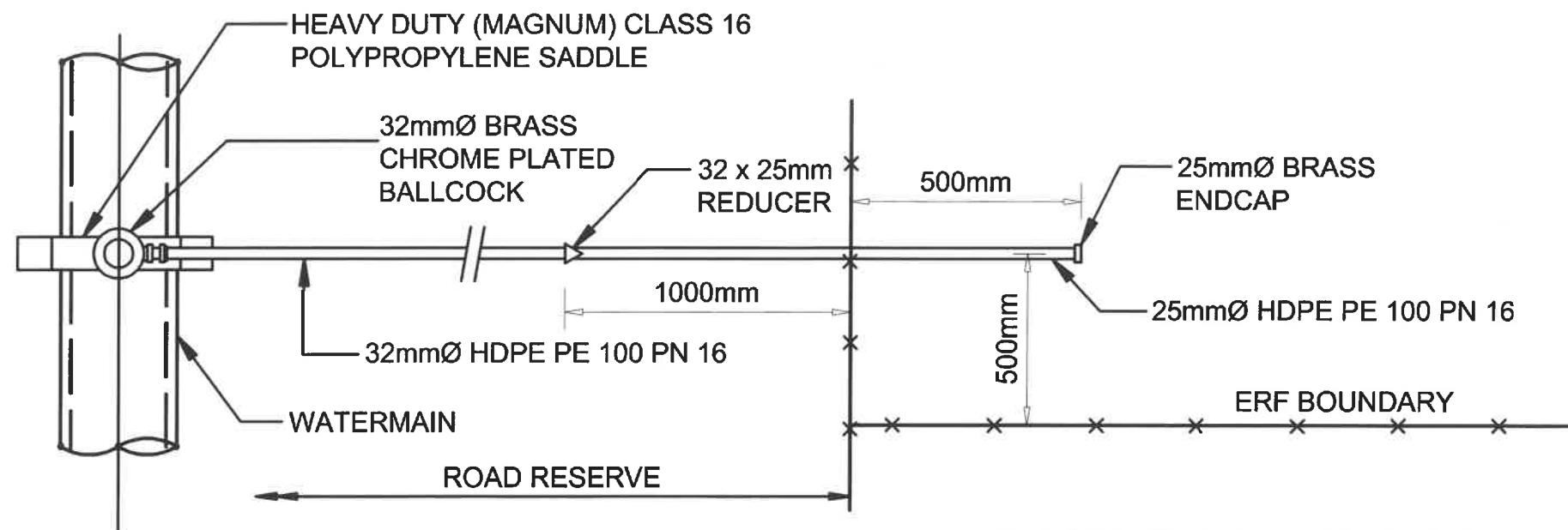
N.T.S.

Paper Size

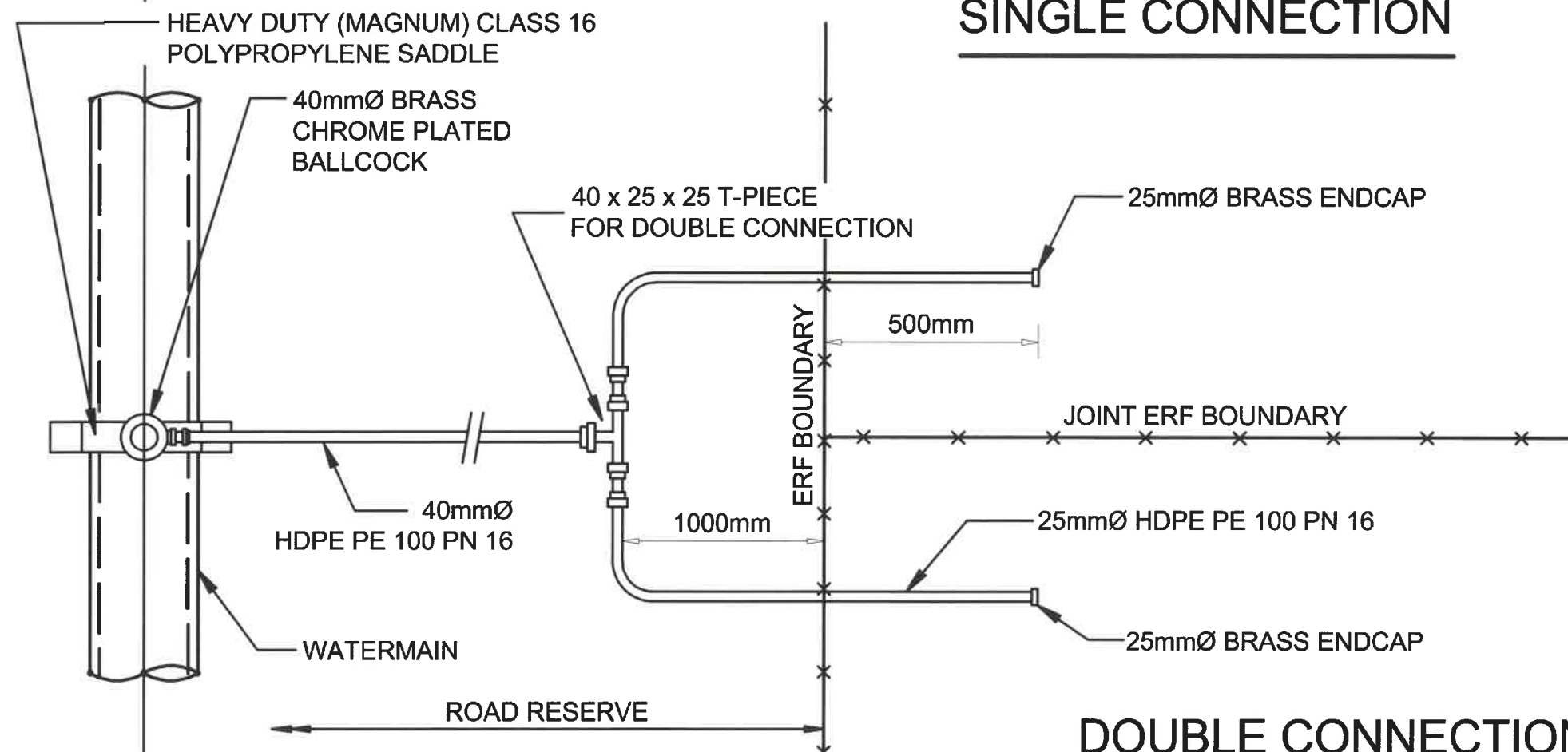
A4

Drawing No.

SS10



SINGLE CONNECTION



DOUBLE CONNECTION

NOTES

1. ALL PIPE SIZES ARE NOMINAL DIAMETER (DN)
2. BALL VALVES TO BE OPEN AT ALL TIMES.
3. ERF CONNECTIONS MAY ONLY BE COVERED AFTER INSPECTION BY MUNICIPAL REPRESENTATIVES.
4. WATER METERS TO BE INSTALLED IN THE ROAD RESERVE - AS CLOSE AS PRACTICALLY POSSIBLE TO THE ERF BOUNDARY.
5. READ IN CONJUNCTION WITH SECTION B OF DESIGN GUIDELINES AND MINIMUM STANDARDS FOR CIVIL ENGINEERING SERVICES.

NOMINAL DIA (DN) VS INSIDE DIA (ID)	
SANS 150 4427 : 1996 PE 100 PN 16	
DN (mm)	ID (mm)
20	15.10
25	20.10
32	25.60
40	32.20
50	40.20



STELLENBOSCH

STELLENBOSCH • PNIEL • FRANSCHHOEK

MUNISIPALITEIT • UMASIPALA • MUNICIPALITY

STANDARD DETAIL DRAWING

TYPICAL ERF CONNECTION : PLAN

Scale

N.T.S.

Paper Size

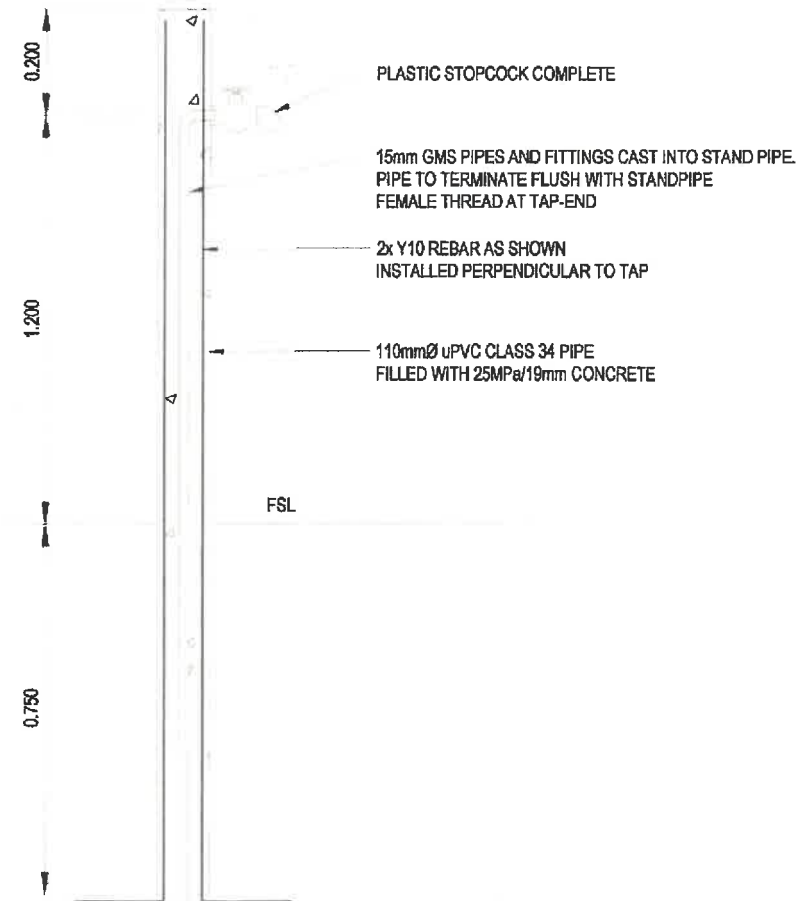
A4

Drawing No.

SW9

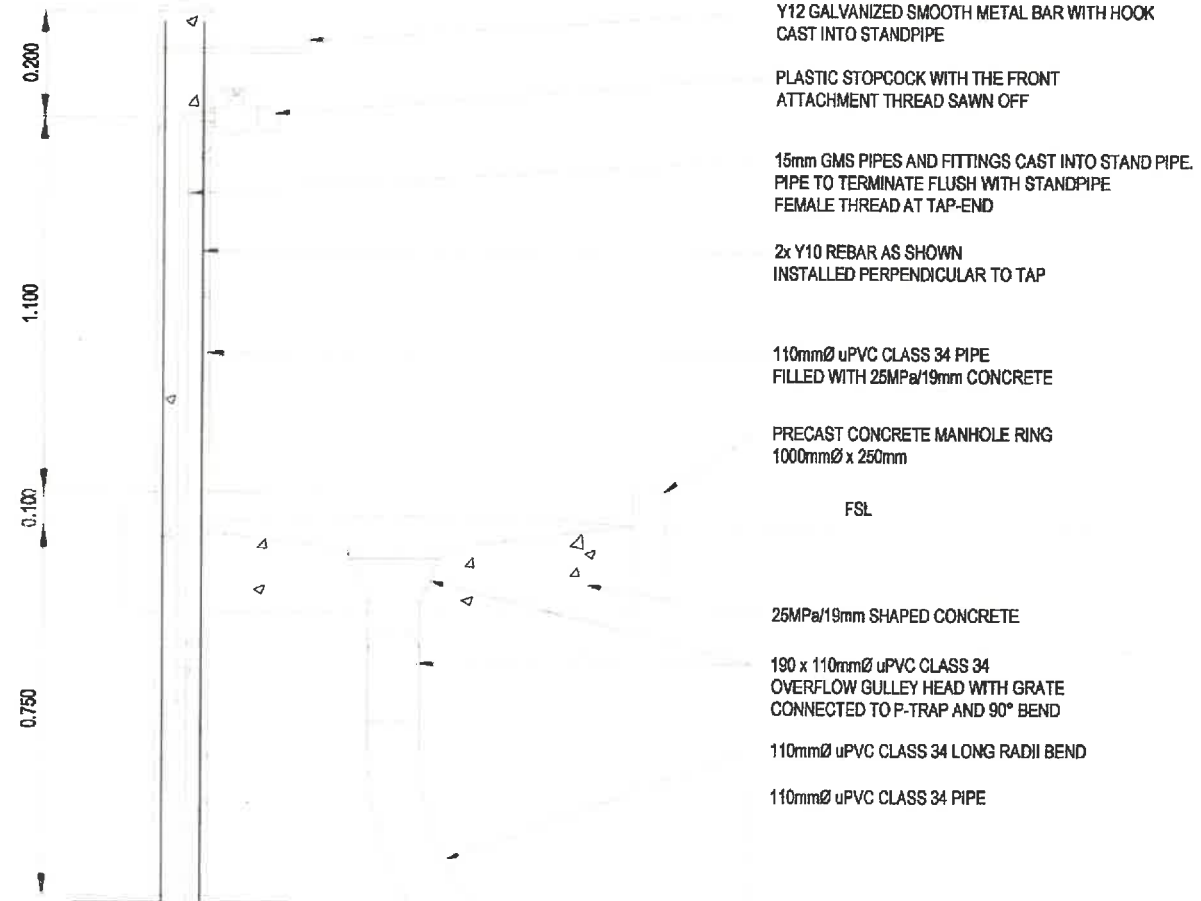
Plot Date: 19/02/2021 9:54:59 AM Office: ZADC1 Filename: P:\PROJECTS\1907705 WATERGANG INFORMAL SETTLEMENTS\DESIGN\CAD\DRAWINGS\DETAILS\02\016 FOR LA APPROVAL\507763-0000-DRG-CC-W02_STAND PIPE-REV.B.DWG

MAINTENANCE STAND PIPE PLAN
VIEW
SCALE 1:50



MAINTENANCE STAND PIPE SECTION VIEW
SCALE 1:50

PUBLIC STAND PIPE PLAN VIEW
SCALE 1:50



PUBLIC STAND PIPE SECTION VIEW
SCALE 1:50

CLIENT



STELLENBOSCH
STELLENBOSCH • PHIL • FRANSCHUUR

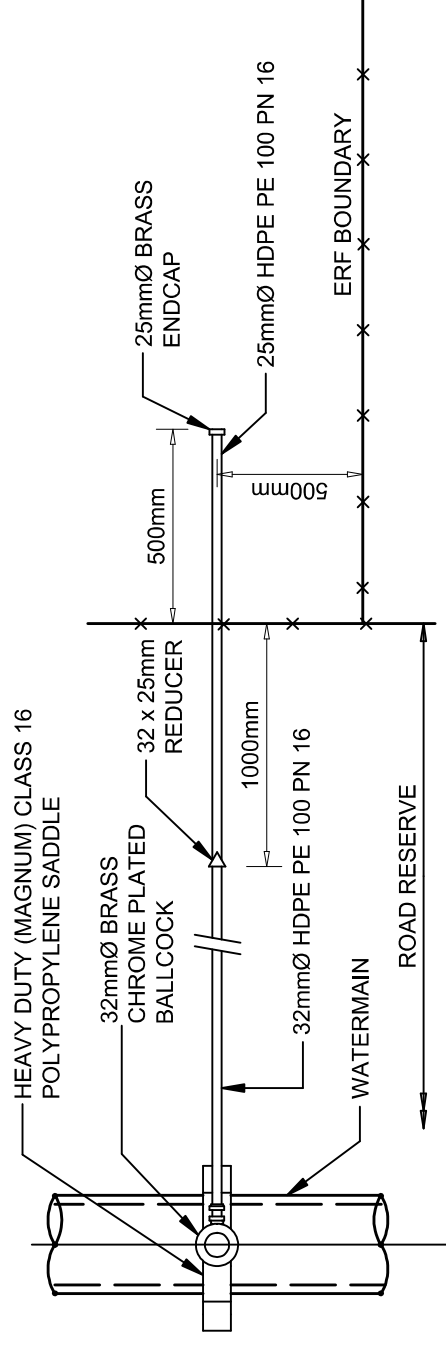
MUNICIPALITEIT • UMAPALA • MUNICIPALITY

TITLE

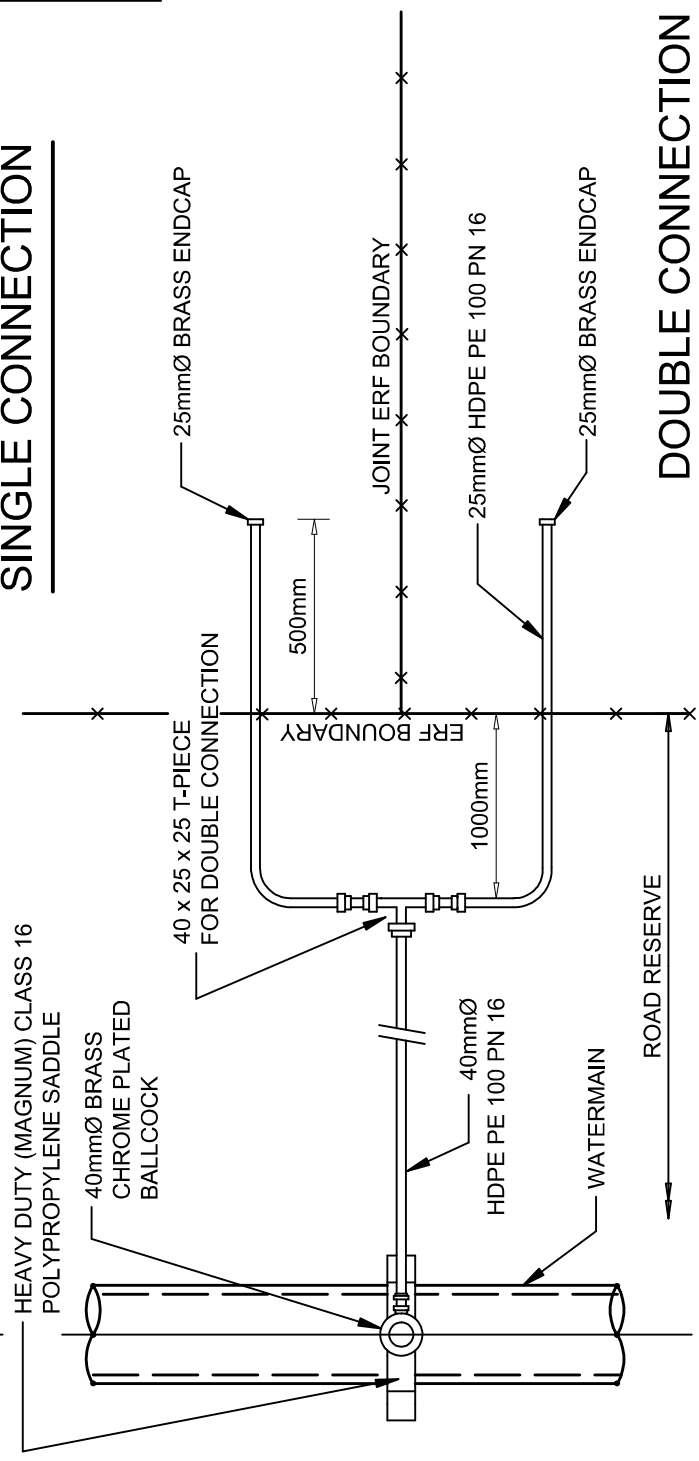
STAND PIPE
DETAIL

DRAWING NUMBER

PROJECT NO. WWS TYPE DWG. NUMBER I.P.P.
507763 - 0000 - DRG - CC - W02 - B



SINGLE CONNECTION



DOUBLE CONNECTION

NOTES

1. ALL PIPE SIZES ARE NOMINAL DIAMETER (DN)
2. BALL VALVES TO BE OPEN AT ALL TIMES.
3. ERF CONNECTIONS MAY ONLY BE COVERED AFTER INSPECTION BY MUNICIPAL REPRESENTATIVES.
4. WATER METERS TO BE INSTALLED IN THE ROAD RESERVE - AS CLOSE AS PRACTICALLY POSSIBLE TO THE ERF BOUNDARY.
5. READ IN CONJUNCTION WITH SECTION B OF DESIGN GUIDELINES AND MINIMUM STANDARDS FOR CIVIL ENGINEERING SERVICES.

NOMINAL DIA (DN) VS INSIDE DIA (ID)	
SANS 150 4427 : 1996 PE 100 PN 16	
DN (mm)	ID (mm)
20	15.10
25	20.10
32	25.60
40	32.20
50	40.20



STANDARD DETAIL DRAWING

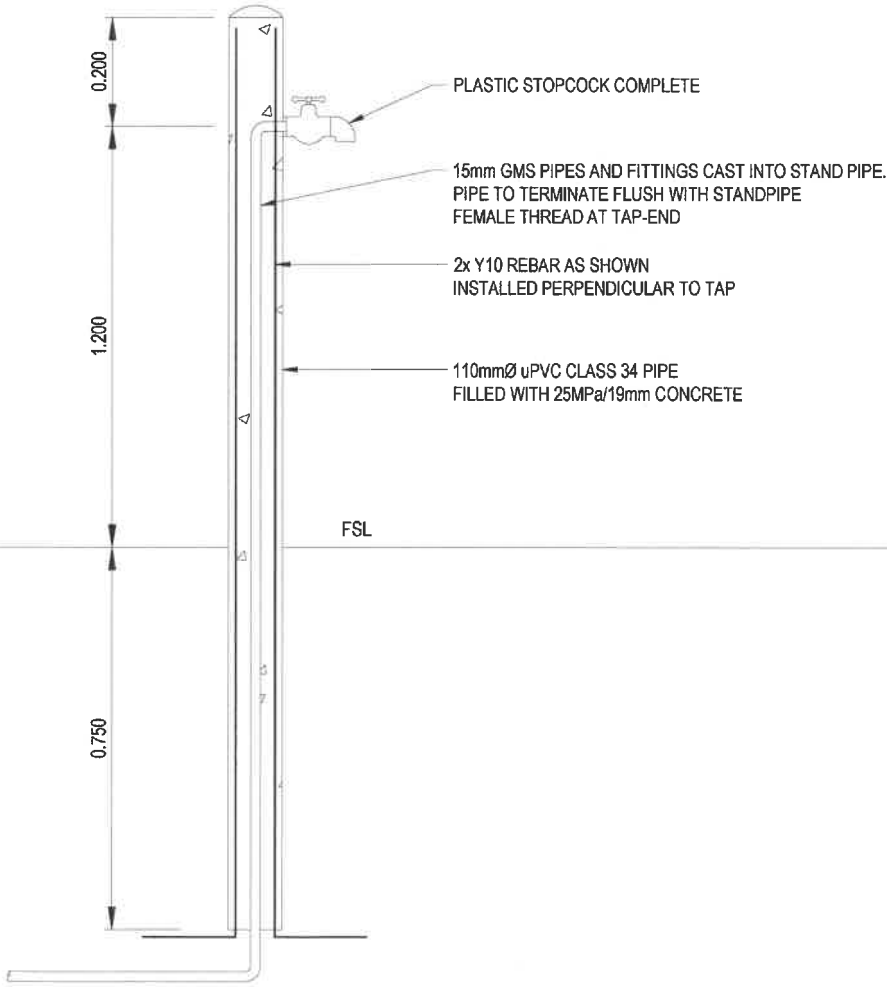
TYPICAL ERF CONNECTION : PLAN

Scale	Paper Size
N.T.S.	A4
Drawing No.	
SW9	

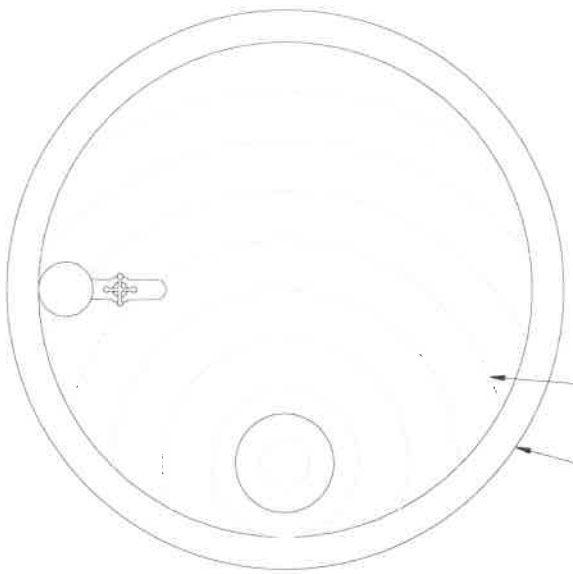
Plot Date: 18/02/2021 9:54:59 AM Office: ZACC1 Filename: P:\PROJECTS\607763 WATERGANG INFORMAL SETTLEMENTS DEL DESIGS CADD\DRAWINGS\DETAILS\2021\0318 FOR LA APPROVAL\507763-0000-DRG-CC-W02_STAND PIPE-REV.B.DWG



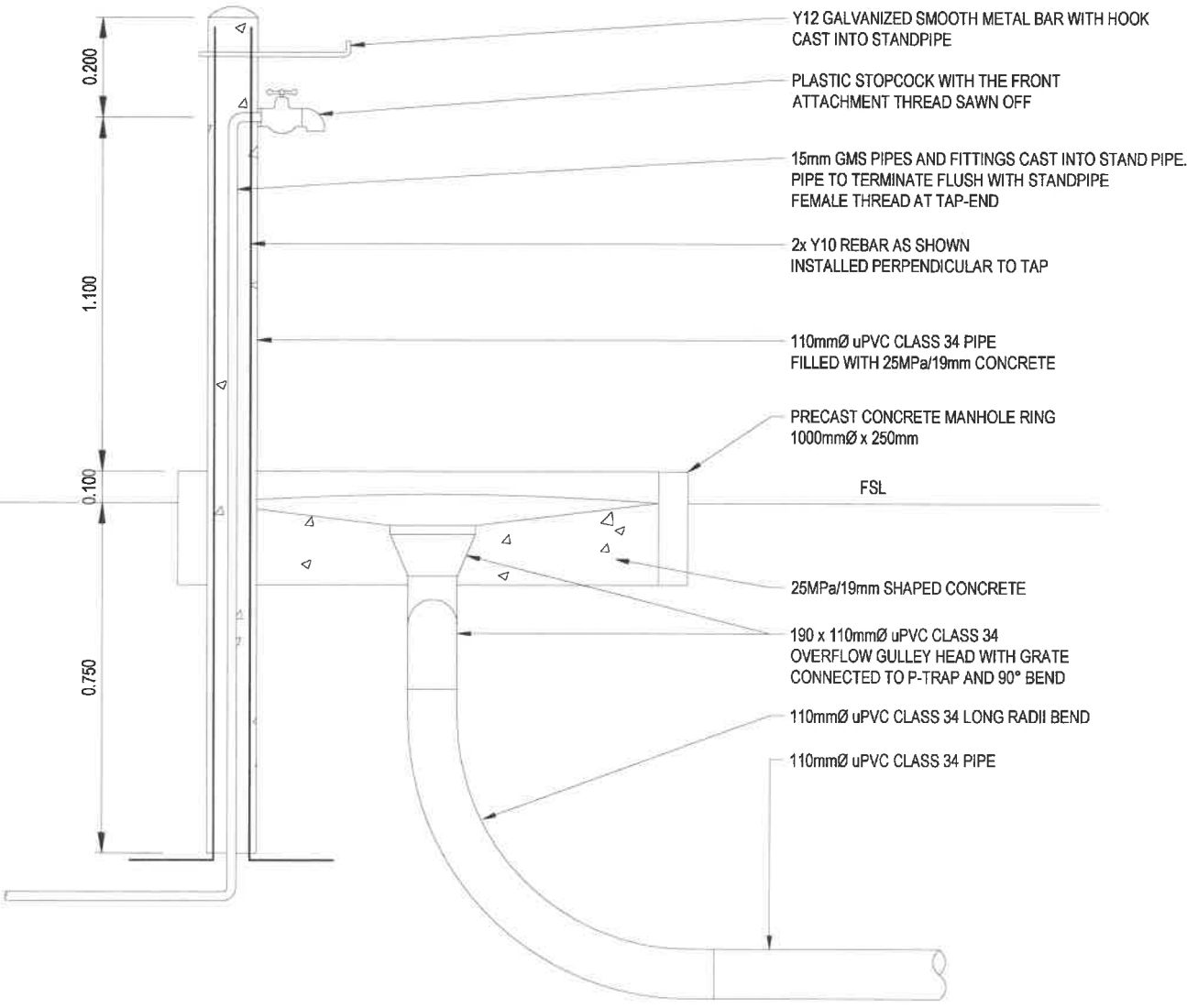
MAINTENANCE STAND PIPE PLAN
VIEW
SCALE 1:50



MAINTENANCE STAND PIPE SECTION VIEW
SCALE 1:50



PUBLIC STAND PIPE PLAN VIEW
SCALE 1:50



PUBLIC STAND PIPE SECTION VIEW
SCALE 1:50

CLIENT

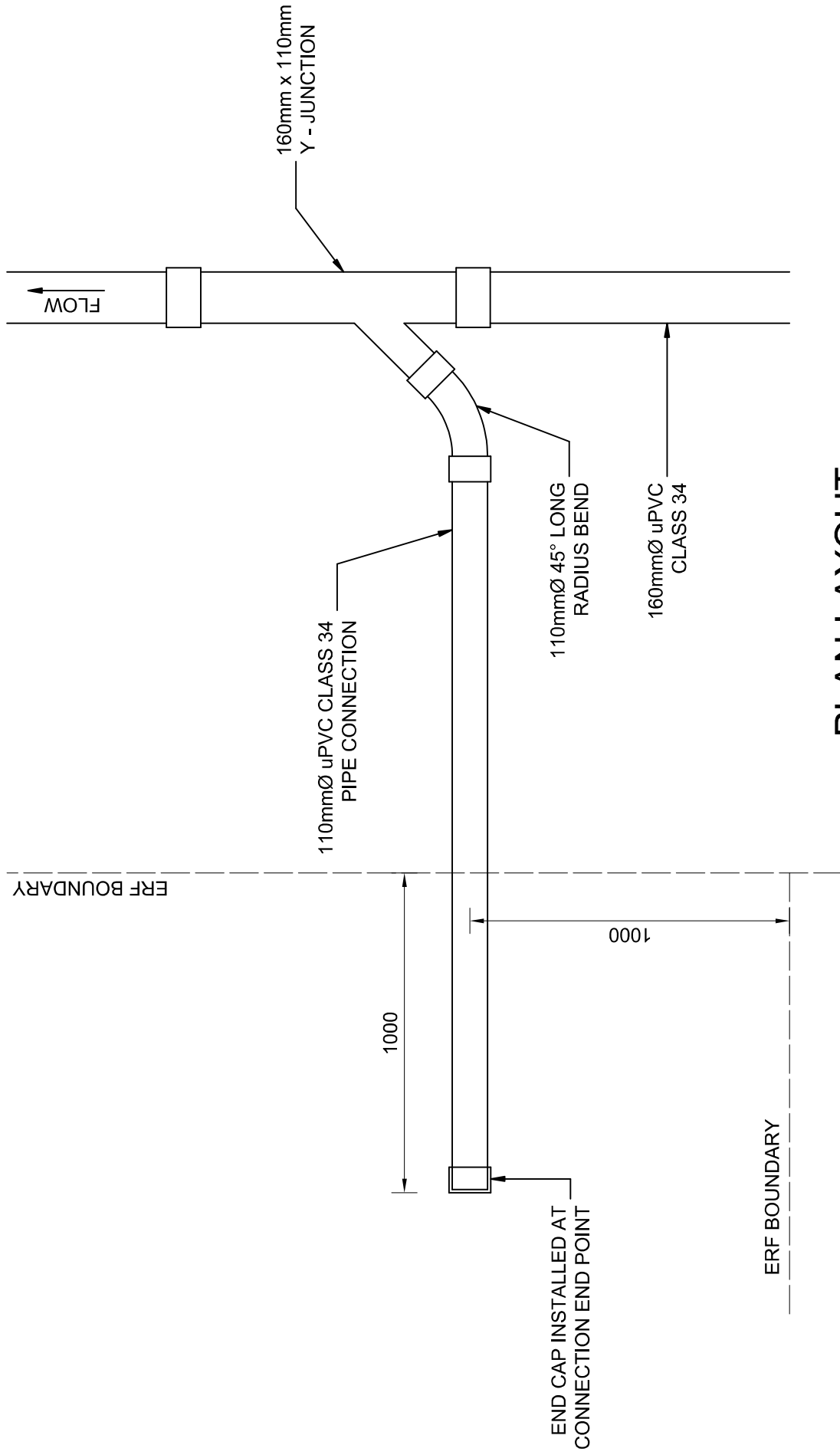


STELLENBOSCH
STELLENBOSCH • PNRL • FRANSCHOSK
MUNISIPALITEIT • UMABIPALA • MUNICIPALITY

TITLE

STAND PIPE
DETAIL

DRAWING NUMBER					
PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
507763	0000	DRG	CC	W02	B



PLAN LAYOUT

 STELLENBOSCH STELLENBOSCH • PNIEL • FRANSCHHOEK MUNISIPALITEIT • UMASIPALA • MUNICIPALITY	STANDARD DETAIL DRAWING	Scale	Paper Size
		N.T.S.	A4
		Drawing No.	
	SEWER ERF CONNECTION LAYOUT	SS10	

Project Name

(Insert Project name as

Indicated on Business Plan)

B/SM 61/26 ZONE O, INTERIM BASIC SERVICES INSTALLATION (IBS), KAYAMANDI

	PARTICIPANTS DETAILS								EXPERIENCE/LITERACY		LOCATION DETAILS					LABOUR DAYS AND WAGES DATA		
	First Name	Initials	Surname	ID Number	Gender	Disability	Start Date	Governemnt Grant	First Language	Highest Level oof Education	Disrict	Municipality / Village	Ward Name / Number	Address	Cell Number	Number of Labour Days Worked	Daily Wage Rate	Total Wage Paid
	Insert the participants first name with a valid 13-digit South African ID or foreign with a valid passport document	Insert participant's initials	Insert participant's name with a valid 13-digit South African ID document or foreigners with a valid passport document	Insert valid 13-digit South African ID number or passport number	Indicate participant Gender (M/F)	Indicate participant's disability status (Y/N)	Indicate participant's assumption of duty	Indicate if this participant receives a Grant (Y/N)	Indicate participant's home language e.g., English, Xhosa, Afrikaans, etc.	Indicate highest level of education	Indicate the district name of where the participant live	Indicate the Municipality/Village name where the participant live	Indicate the ward number of the area where the participant live	Indicate participant street address	Indicate participant cellphone numner	The number of labour days must be in line with the attendance register for the week	Participant's wage rate must be in line with their employment contract and tender rate	The total wage paid out for the month must correspond with their payment register/payslip

DO NOT ENTER DATA IN
THE BELOW COLUMN

[illegible]

Contract of Temporary Employment as Community Liaison Officer

Construction Contract No.: B/SM 61/26

PROJECT: CONSTRUCTION OF BASIC SERVICES (WATER & SANITATION) AT **ZONE O** IN KAYAMANDI, STELLENBOSCH

AGREEMENT made between the CONTRACTOR and the Community Liaison Officer, hereafter referred to as the CLO, for the appointment and employment of a CLO for the duration of the work in respect of the above-referenced project.

1. THE PARTIES HAVE AGREED THAT

The CLO will be employed by the CONTRACTOR on a temporary basis for the duration of the work from the date of signing this agreement to the date of practical completion as defined in the Contract, subject to all the conditions set out below.

2. THE DUTIES OF THE COMMUNITY LIAISON OFFICER SHALL BE:

- to keep the community informed on the progress of the project;
- to keep the Contractor informed on relevant Community affairs and possible grievances;
- to manage the recruitment of workers from the Sub-Council Job-Seekers Database;
- to assist the Contractor's supervisory staff in the management of the workers.

3. THE FOLLOWING CONDITIONS OF EMPLOYMENT SHALL APPLY:

The Conditions of Temporary Employment as applicable to this Contract for the workers recruited from the Community shall apply equally to the CLO, except that the rate of remuneration shall be **R 45,00** per hour. The conditions that apply are listed below as they appear in the Contract of Temporary Employment:

3.1. If required to work on a statutory public holiday or Sunday, the payment will be double the amount stated in the previous paragraph.

3.2. Maximum hours of work:

- 9 hours per day
- 45 hours per week;
- 5 days per week;
- 5 hours without an interval, whereupon there shall be an interval of at least 30 minutes;
- A spread-over period of 12 hours.

3.3. The CLO shall be entitled to payment where he/she is prevented from working by reasons which are within the control of the Contractor.

3.4. On days when it is raining the Contractor may, before 9 a.m., decide not to open the site and there will be no pay.

3.5. If the Contractor closes the site between 9 a.m. and 1 p.m., the CLO will be paid half the daily wage.

3.6. If the site works later than 1 p.m., the CLO will be paid the full daily wage.

3.7. Workers and the CLO will not be permitted to work under conditions of:

- undisciplined or unruly behaviour;
- insubordination to Team Leader, Supervisors, or Management;
- abuse of intoxicating substances;
- criminal actions by the employee;
- strike action or political stayaways.

3.8. Workers, including the CLO, may be dismissed after two official written warnings for the following behaviour:

- undisciplined or unruly behaviour;
- insubordination to Team Leader, Supervisors or Management;
- abuse of intoxicating substances;
- wilful or negligent damage to or loss of machines or equipment.

The Contractor shall ensure that he has statements from at least two witnesses concerning any of the above situations.

The Contractor shall inform the CLO within 24 hours of any warning issued to workers employed from the Job-Seekers Database.

3.9. The CLO will be paid on a Friday afternoon every two weeks, one week in arrears.

3.10. The CLO shall be given a statement with each payment on which is recorded:

- the name of the Contractor;
- the CLO's name;
- the number of days worked by the CLO;
- the rate per day;
- the details of any deductions made;
- the actual amount paid to the CLO.

3.11. No deduction shall be made from the remuneration except where the CLO consents in writing or unless the Contractor is permitted or required to do so by law or the order of any competent court.

3.12. The CLO shall be supplied free of charge with all health and safety equipment required by the Occupational Health and Safety Act. The equipment shall remain the property of the Contractor.

3.13. The Contractor must give the CLO at least one week's notice of the termination of the Contract of Temporary Employment. If this is not done, the CLO must be paid earnings for five days. This condition does not apply if the CLO is dismissed.

3.14. At the end of the period of temporary employment, the Contractor shall provide a Certificate of Service recording the Contractor's name, the CLO's name and address, the period of service, the type of work on which the CLO was engaged and the rate of remuneration on termination.

4. TERMINATION OF AGREEMENT

If the CLO can no longer perform and execute his/her duties as detailed in this agreement, this agreement will be terminated without prejudice to any rights under this agreement.

5. THE CONDITIONS OF THIS AGREEMENT

The parties expressly declare that this agreement contains all the conditions negotiated between them, and no condition or stipulation not contained herein shall be binding upon the parties.

6. THUS, AGREED AND SIGNED BY THE PARTIES:

Contractor

Signature

Date

Community Liaison Officer

Signature

Date