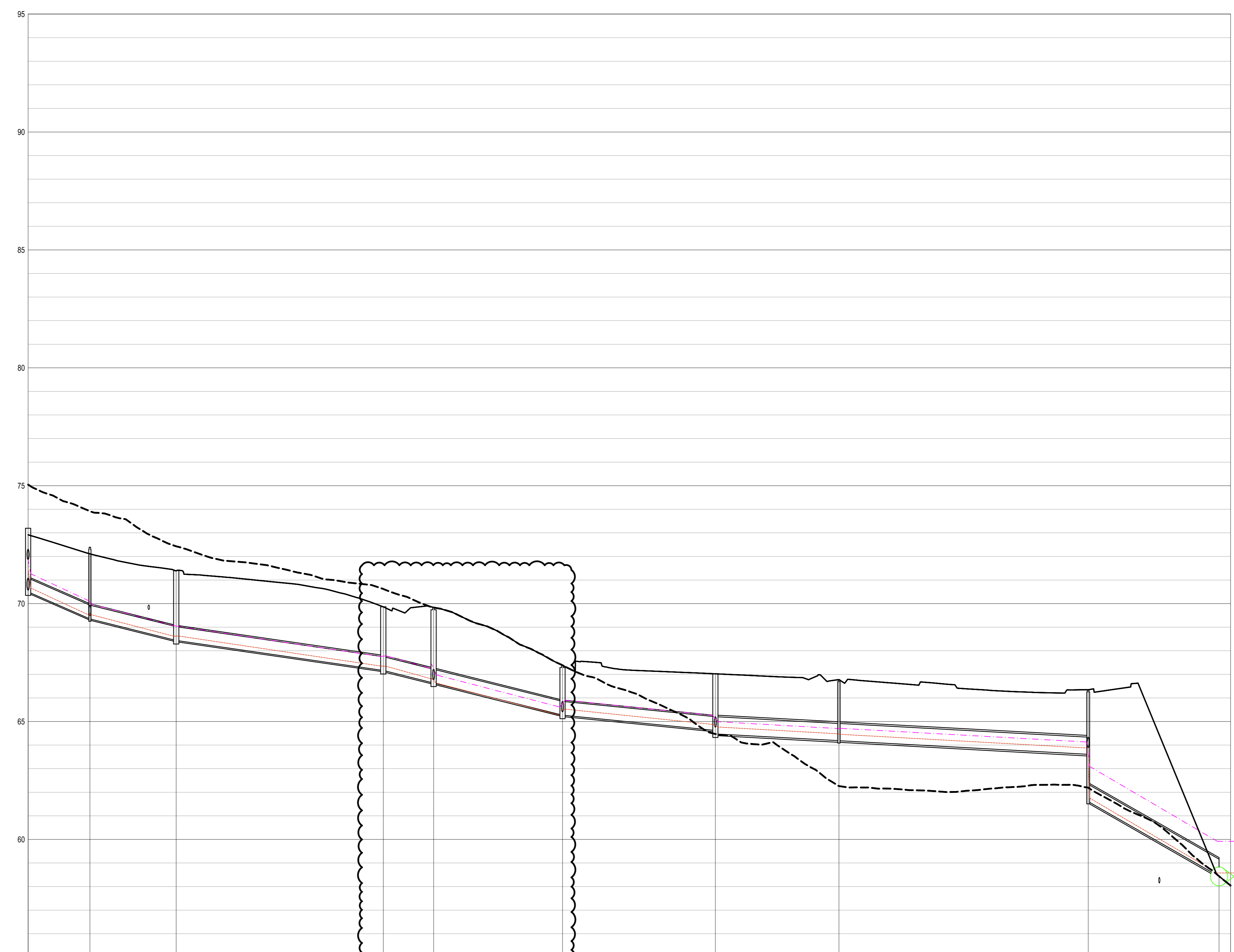


**CONSTRUCTION NOTES:
STORMWATER**

1. **CONSTRUCTION:**
 - 1.1. ALL CONSTRUCTION, TESTING AND MATERIALS TO COMPLY WITH 1200 SERIES OF SPECIFICATIONS.
 - 1.2. PIPE BEDDING TO BE CLASS B AS PER SABS 1200 LB WITH BEDDING CRADLE OF SELECTED FILL QUALITY.
 - 1.3. PIPES AS PER DRAWING.
 - 1.4. WHERE STORMWATER PIPES CROSS THE SEWER LINE A CLASS 'A' BEDDING MUST BE PROVIDED 2.0m EACH WAY UNDER THE STORMWATER LINE.
 - 1.5. MINIMUM FALLS ON ALL PIPES = 1:100 U.O.S.
2. **MATERIALS:**
 - 2.1. ALL BRICKS TO BE ENGINEERING UNITS TYPE NFXE-14 AS PER SABS 227 & 285.
 - 2.2. MANHOLE COVERS IN ROADWAYS TO BE STANDARD D.C HEAVY DUTY CAST IRON COVERS AND FRAMES IN ACCORDANCE WITH SABS 558 TYPE 2B. IN WALKWAYS AND WHERE POTENTIAL TRAFFIC CAN OCCUR HEAVY DUTY PRECAST COVERS TO BE USED AND IN ALL OTHER AREAS LIGHT DUTY PRECAST CONCRETE CAN BE USED.
 - 2.3. STORMWATER PIPES TO BE SPIGOT AND SOCKET, CLASS 1000 TO BE USED UNDER ROADWAYS AND 500 IN NON-TRAFFICKED AREAS.
 - 2.4. HDPE STORMWATER PIPES TO BE 8KN/m² RING STIFFNESS CORRUGATED PIPES AS SUPPLIED BY MAGNUM OR SIMILAR APPROVED.
 - 2.5. STEP IRONS TO COMPLY WITH SABS 1247.
 - 2.6. DUE TO THE CORROSIVE NATURE OF THE SOIL NO GALVANISED MATERIAL MAY BE USED.
3. **NOTE ON STORMWATER CONNECTIONS:**
 - 3.1. CONTRACTOR TO LOCATE THE EXISTING STORMWATER PIPES ON SITE AND VERIFY ALL INVERT LEVELS WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION.
 - 3.2. THE EXISTING SERVICES ARE TO ADEQUATELY PROTECTED AND ANY DAMAGE IS TO REPAIRED AT THE CONTRACTORS COST.
 - 3.3. ALL NEW STORMWATER PIPES MUST BE LAID AT AN ANGLE OF NOT LESS THAN 30 DEG. AND NOT MORE THAN 60 DEG. TO THE EXISTING PIPE.
 - 3.4. ALL PIPES MUST BE LAID SOFFIT TO SOFFIT.

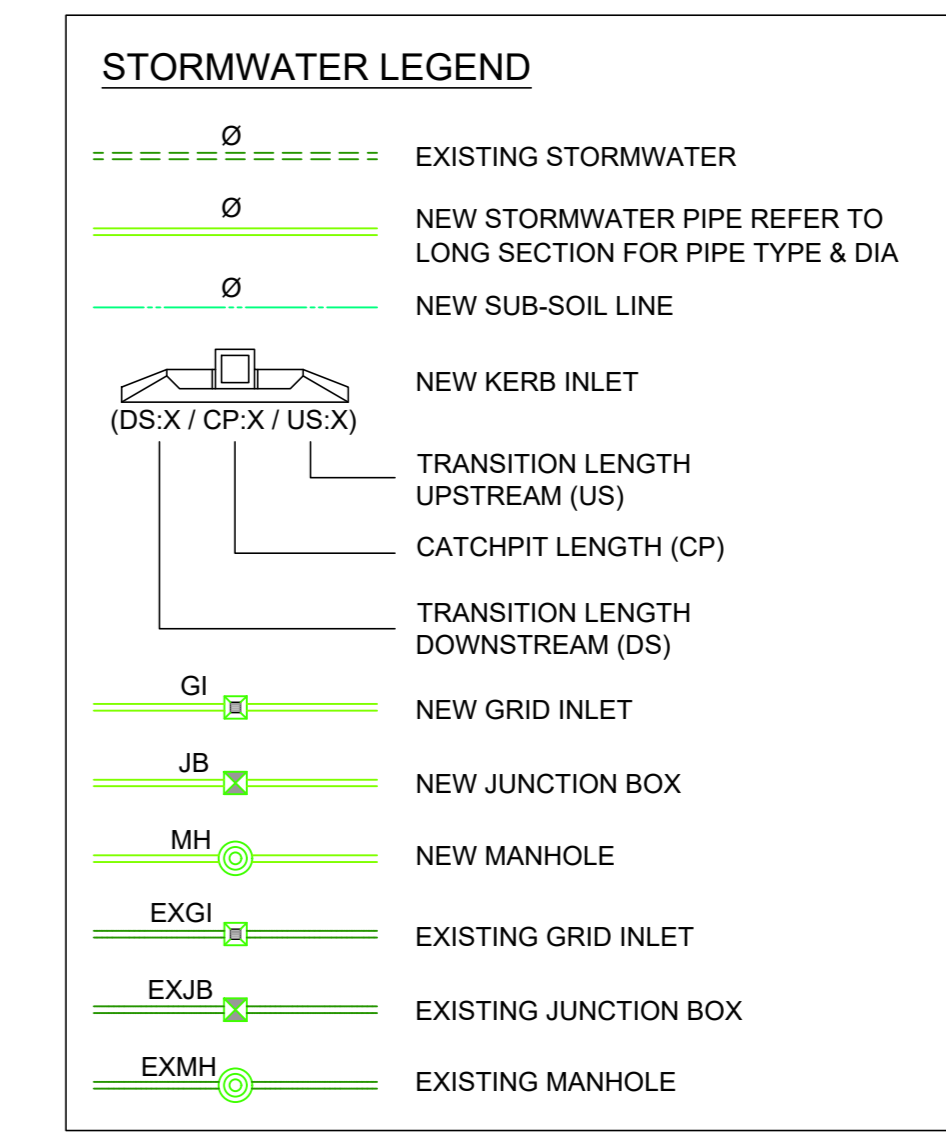


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 55.000

NODE		SW10-1-2	SW10-1-3	SW10-1-4	SW10-1-5	SW10-1-6	SW10-1-7	SW10-1-8	SW10-2	SW10-2-2
NODE TYPE		JUNCTION BOX	KERB INLET	JUNCTION BOX	JUNCTION BOX	MANHOLE	MANHOLE	JUNCTION BOX	KERB INLET	OUTLET
DISTANCE (m)		34.864	34.766	366.283	410.183	420.833	445.183	690.574	806.788	927.354
FINAL LEVEL		72.92	71.11	71.40	69.86	69.84	67.39	67.02	66.70	58.43
DEPTH TO INVERT		2.42	2.79	2.69	2.67	3.20	2.19	2.45	2.93	0.00
PIPE INVERT LEVEL		70.50	68.32	68.71	67.19	66.64	65.20	64.57	63.77	58.43
SLOPE / LENGTH		8.7%	5.8%	3.8%	4.8%	4.8%	2.0%	1.9%	1.9%	11.6%
		1:11.4	1:20.0	1:26.3	1:20.8	1:20.8	1:50.0	1:51.1	1:51.1	1:8.7
		13.09m	18.31m	43.90m	10.67m	27.33m	32.41m	26.19m	52.85m	27.70m
HYDRAULICS	DESIGN Q(m ³ /s)	0.21	0.21	0.21	0.21	0.21	0.31	0.31	0.31	0.31
	V(m/s)	3.4	3.0	2.8	2.9	2.6	2.8	2.1	2.2	5.1
	MAX. (0.80) V(m/s)	1.80	1.36	1.04	1.36	1.36	0.86	1.15	1.15	3.71
		7.8	5.9	4.5	5.9	5.9	3.7	3.2	3.2	10.3
PIPE SPECIFICATION		600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	750mm Ø SPIGOT & SOCKET	750mm Ø SPIGOT & SOCKET	750mm Ø SPIGOT & SOCKET

LONGSECTION
NETWORK 10_SW10.1-1 SECTION 2



ISSUE / REVISION

ISSUE	DATE	DESCRIPTION	ISS BY
6	2021-10-11	MANHOLE SW10.10-2 ADDED	DVDM
5	2021-10-06	FOR CONSTRUCTION	DVDM
4	2021-09-09	FOR CONSTRUCTION	DVDM
3	2021-07-29	BIM 360 REVISION	DVDM
1	2021-06-21	FOR CONSTRUCTION	DVDM
0	2021-04-16	FOR CONSTRUCTION	DVDM

DRAWING STATUS
FOR CONSTRUCTION



ARCHITECT
COA

CLIENT
DEVMCO

PROJECT
SALTA INFRASTRUCTURE

DRAWING CHECKS

DESIGNED BY: D. vd MERWIE
DRAWN BY: J. OOSTHUIZEN
CHECKED BY: D. vd MERWIE
APPROVED BY: D. vd MERWIE

DRAWING TITLE
STORMWATER LONGSECTIONS
NETWORK 10 SHEET 2

SCALE As indicated

DRAWING NUMBER	REV
2019-0173-C-5872	6