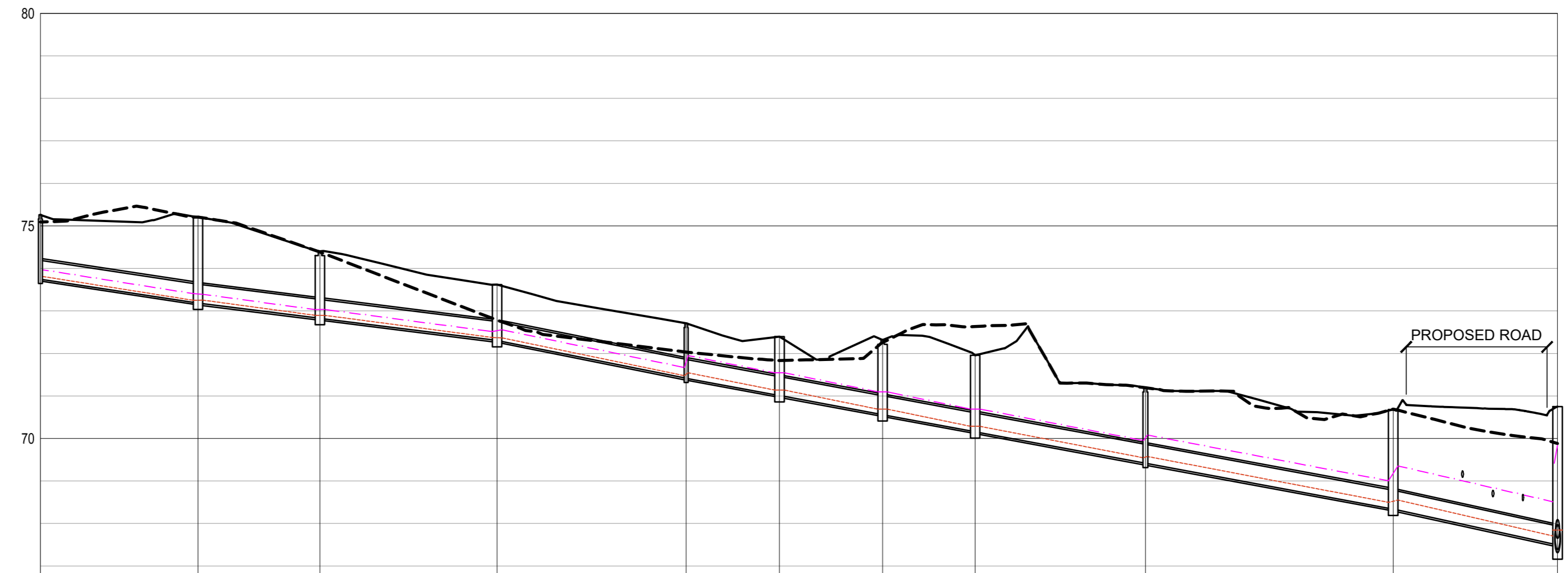


SCALES: Horizontal 1:500, Vertical 1:100, DATUM 70.000

NODE	SW7.5-1	SW7.5-2
NODE TYPE	KERB INLET	MANHOLE
DISTANCE (m)	0.00	13.055
FINAL LEVEL	76.07	75.57
DEPTH TO INVERT	1.375	1.288
PIPE INVERT LEVEL	74.695	74.282
SLOPE / LENGTH	4.00% / 13.055m	
HYDRAULICS	DESIGN Q(m³/s) 0.07, V(m/s) 2.6; MAX. (0.8D) Q(m³/s) 0.59, V(m/s) 4.4	
PIPE SPECIFICATION	450mm Ø SPIGOT & SOCKET	

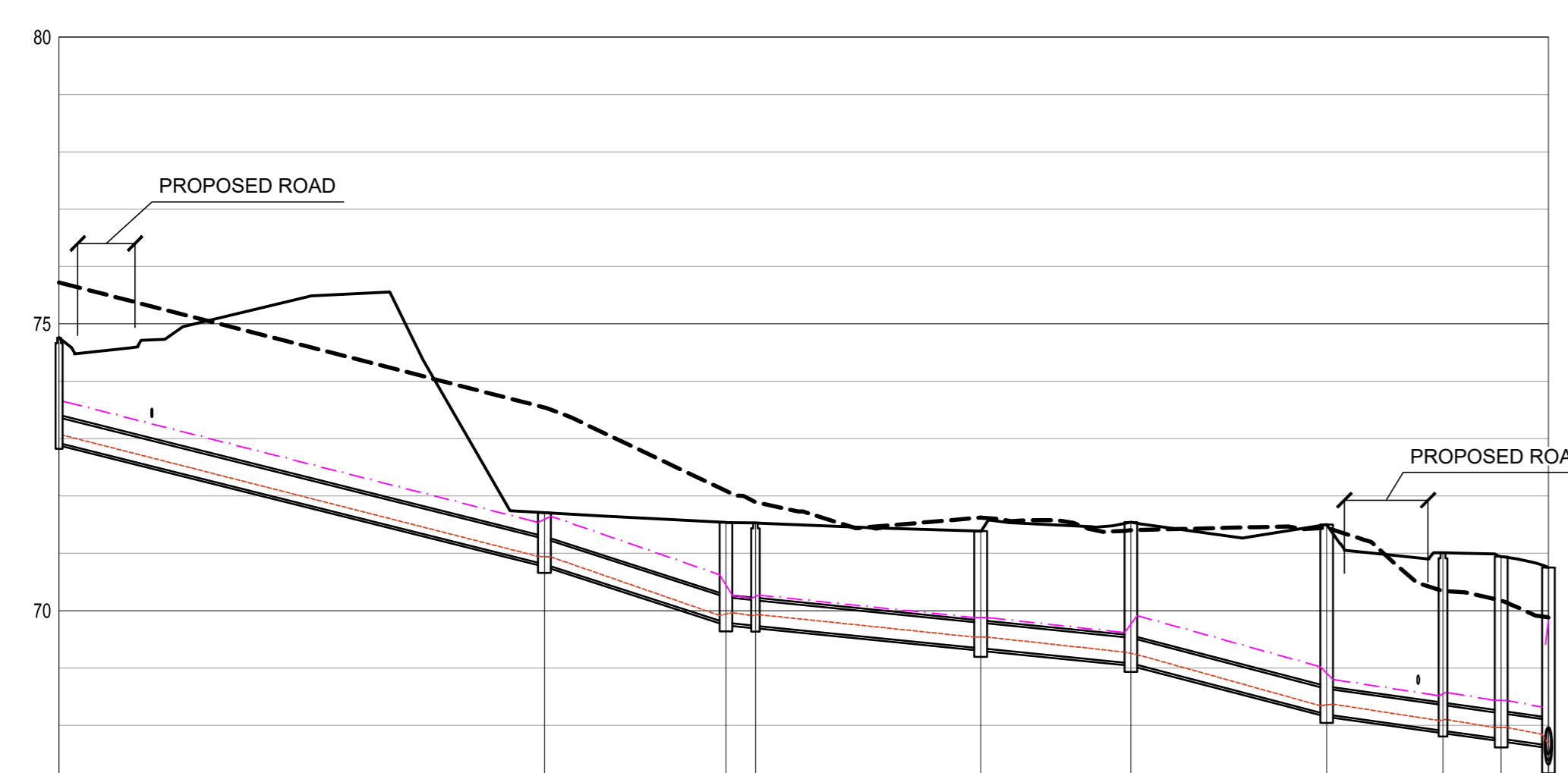
LONGSECTION NETWORK 7\_SW7.5-1



SCALES: Horizontal 1:500, Vertical 1:100, DATUM 65.000

NODE	SW7.6-1	SW7.6-2	SW7.6-3	SW7.6-4	SW7.6-5	SW7.6-6	SW7.6-7	SW7.6-8	SW7.6-9	SW7.6-10	SW7.6-11
NODE TYPE	KERB INLET	JUNCTION BOX	MANHOLE	JUNCTION BOX	KERB INLET	JUNCTION BOX	MANHOLE	JUNCTION BOX	KERB INLET	JUNCTION BOX	JUNCTION BOX
DISTANCE (m)	0.00	18.505	21.881	53.883	75.978	88.883	98.003	109.885	128.889	159.883	178.843
FINAL LEVEL	75.28	75.21	74.40	75.82	72.71	72.40	72.31	71.95	71.19	70.68	70.75
DEPTH TO INVERT	1.515	2.025	1.576	1.317	1.295	1.388	1.755	1.295	1.778	2.248	3.257
PIPE INVERT LEVEL	74.765	73.185	72.824	74.503	71.415	71.012	70.556	70.655	69.411	68.432	67.486
SLOPE / LENGTH		3.00% / 15.53m	2.90% / 14.34m	2.90% / 20.82m	4.00% / 22.34m	3.70% / 10.98m	3.70% / 12.12m	3.70% / 10.88m	3.70% / 20.01m	3.70% / 29.12m	4.37% / 19.32m
HYDRAULICS	DESIGN Q(m³/s) 0.03, V(m/s) 1.8; MAX. (0.8D) Q(m³/s) 0.51, V(m/s) 3.8	DESIGN Q(m³/s) 0.03, V(m/s) 1.6; MAX. (0.8D) Q(m³/s) 0.46, V(m/s) 3.5	DESIGN Q(m³/s) 0.03, V(m/s) 1.6; MAX. (0.8D) Q(m³/s) 0.46, V(m/s) 3.5	DESIGN Q(m³/s) 0.03, V(m/s) 1.6; MAX. (0.8D) Q(m³/s) 0.59, V(m/s) 4.4	DESIGN Q(m³/s) 0.11, V(m/s) 2.8; MAX. (0.8D) Q(m³/s) 0.56, V(m/s) 4.2	DESIGN Q(m³/s) 0.11, V(m/s) 2.8; MAX. (0.8D) Q(m³/s) 0.56, V(m/s) 4.2	DESIGN Q(m³/s) 0.11, V(m/s) 2.8; MAX. (0.8D) Q(m³/s) 0.56, V(m/s) 4.2	DESIGN Q(m³/s) 0.11, V(m/s) 2.8; MAX. (0.8D) Q(m³/s) 0.56, V(m/s) 4.2	DESIGN Q(m³/s) 0.10, V(m/s) 3.2; MAX. (0.8D) Q(m³/s) 0.56, V(m/s) 4.6	DESIGN Q(m³/s) 0.30, V(m/s) 4.0; MAX. (0.8D) Q(m³/s) 0.61, V(m/s) 4.6	
PIPE SPECIFICATION	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET

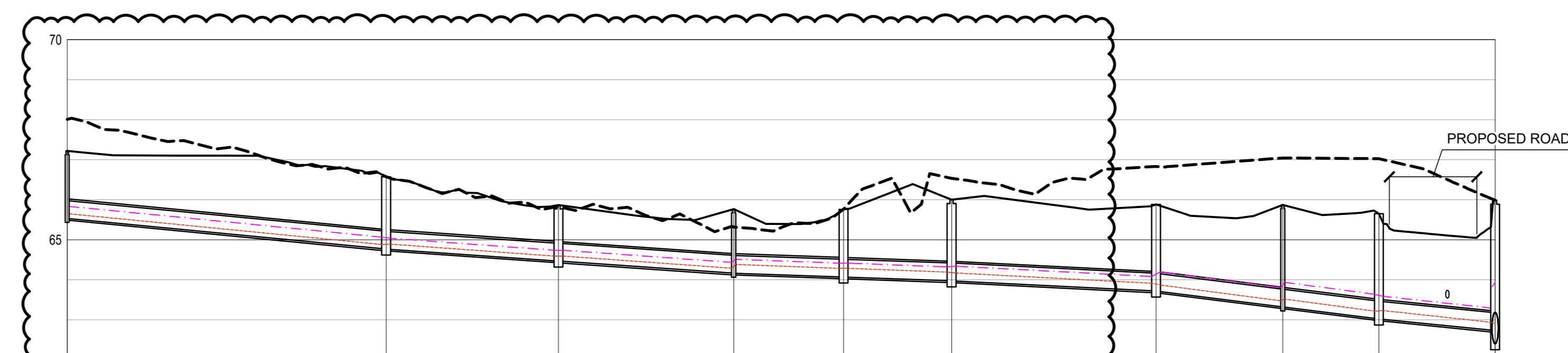
LONGSECTION NETWORK 7\_SW7.6-1



SCALES: Horizontal 1:500, Vertical 1:100, DATUM 65.000

NODE	SW7.7-1	SW7.7-2	SW7.7-3	SW7.7-4	SW7.7-5	SW7.7-6	SW7.7-7	SW7.7-8	SW7.7-9	SW7.7-10	SW7.7-11
NODE TYPE	KERB INLET	JUNCTION BOX	JUNCTION BOX	KERB INLET	JUNCTION BOX	JUNCTION BOX	JUNCTION BOX	KERB INLET	JUNCTION BOX	JUNCTION BOX	JUNCTION BOX
DISTANCE (m)	0.00	42.204	58.116	60.886	80.307	83.402	110.452	120.597	125.804	129.178	129.178
FINAL LEVEL	74.78	71.71	71.54	71.53	71.59	71.55	71.50	71.01	70.94	70.75	70.75
DEPTH TO INVERT	1.688	0.688	1.752	1.797	2.043	2.043	3.105	3.105	3.179	3.179	3.102
PIPE INVERT LEVEL	73.092	70.022	69.788	69.733	69.547	69.507	67.395	67.905	67.765	67.571	67.648
SLOPE / LENGTH		5.00% / 42.204m	0.40% / 15.50m	0.20% / 23.7m	2.00% / 19.00m	2.00% / 13.10m	5.20% / 17.05m	2.00% / 15.14m	2.00% / 3.0m	2.00% / 3.0m	2.00% / 1.11m
HYDRAULICS	DESIGN Q(m³/s) 0.14, V(m/s) 3.4; MAX. (0.8D) Q(m³/s) 0.68, V(m/s) 4.9	DESIGN Q(m³/s) 0.14, V(m/s) 3.7; MAX. (0.8D) Q(m³/s) 0.74, V(m/s) 5.6	DESIGN Q(m³/s) 0.17, V(m/s) 2.6; MAX. (0.8D) Q(m³/s) 0.41, V(m/s) 3.1	DESIGN Q(m³/s) 0.17, V(m/s) 2.6; MAX. (0.8D) Q(m³/s) 0.41, V(m/s) 3.1	DESIGN Q(m³/s) 0.17, V(m/s) 3.6; MAX. (0.8D) Q(m³/s) 0.67, V(m/s) 5.0	DESIGN Q(m³/s) 0.17, V(m/s) 3.6; MAX. (0.8D) Q(m³/s) 0.49, V(m/s) 3.7	DESIGN Q(m³/s) 0.20, V(m/s) 3.0; MAX. (0.8D) Q(m³/s) 0.49, V(m/s) 3.7	DESIGN Q(m³/s) 0.20, V(m/s) 3.0; MAX. (0.8D) Q(m³/s) 0.49, V(m/s) 3.7	DESIGN Q(m³/s) 0.19, V(m/s) 2.6; MAX. (0.8D) Q(m³/s) 0.41, V(m/s) 3.1	DESIGN Q(m³/s) 0.19, V(m/s) 2.6; MAX. (0.8D) Q(m³/s) 0.41, V(m/s) 3.1	
PIPE SPECIFICATION	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	500mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET

LONGSECTION NETWORK 7\_SW7.7-1



SCALES: Horizontal 1:500, Vertical 1:100, DATUM 60.000

NODE	SW7.8-1	SW7.8-2	SW7.8-3	SW7.8-4	SW7.8-5	SW7.8-6	SW7.8-7	SW7.8-8	SW7.8-9	SW7.8-10	SW7.8-11
NODE TYPE	KERB INLET	JUNCTION BOX	MANHOLE	KERB INLET	JUNCTION BOX	MANHOLE	JUNCTION BOX	MANHOLE	JUNCTION BOX	JUNCTION BOX	MANHOLE
DISTANCE (m)	0.00	39.624	61.456	83.389	97.120	110.633	138.214	152.051	154.089	178.626	178.626
FINAL LEVEL	67.22	66.57	65.67	65.77	65.75	65.00	66.88	66.87	65.65	66.59	66.59
DEPTH TO INVERT	1.688	1.807	1.401	1.603	1.698	2.000	2.105	2.551	2.608	3.258	3.258
PIPE INVERT LEVEL	65.532	64.763	64.269	64.167	64.052	63.000	64.775	64.319	63.041	63.332	63.332
SLOPE / LENGTH		1.90% / 42.20m	1.30% / 21.50m	1.30% / 21.50m	0.70% / 13.70m	0.70% / 13.70m	1.00% / 25.50m	2.50% / 15.80m	2.00% / 14.00m	2.00% / 15.00m	2.00% / 14.90m
HYDRAULICS	DESIGN Q(m³/s) 0.06, V(m/s) 1.9; MAX. (0.8D) Q(m³/s) 0.41, V(m/s) 3.0	DESIGN Q(m³/s) 0.06, V(m/s) 1.7; MAX. (0.8D) Q(m³/s) 0.34, V(m/s) 2.5	DESIGN Q(m³/s) 0.12, V(m/s) 1.8; MAX. (0.8D) Q(m³/s) 0.24, V(m/s) 1.8	DESIGN Q(m³/s) 0.12, V(m/s) 1.8; MAX. (0.8D) Q(m³/s) 0.24, V(m/s) 1.8	DESIGN Q(m³/s) 0.12, V(m/s) 1.5; MAX. (0.8D) Q(m³/s) 0.29, V(m/s) 2.2	DESIGN Q(m³/s) 0.12, V(m/s) 1.5; MAX. (0.8D) Q(m³/s) 0.29, V(m/s) 2.2	DESIGN Q(m³/s) 0.12, V(m/s) 1.5; MAX. (0.8D) Q(m³/s) 0.29, V(m/s) 2.2	DESIGN Q(m³/s) 0.12, V(m/s) 1.5; MAX. (0.8D) Q(m³/s) 0.29, V(m/s) 2.2	DESIGN Q(m³/s) 0.12, V(m/s) 1.5; MAX. (0.8D) Q(m³/s) 0.29, V(m/s) 2.2	DESIGN Q(m³/s) 0.19, V(m/s) 2.6; MAX. (0.8D) Q(m³/s) 0.41, V(m/s) 3.1	
PIPE SPECIFICATION	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET

LONGSECTION NETWORK 7\_SW7.8-1

- CONSTRUCTION NOTES: STORMWATER**
- CONSTRUCTION:**
    - ALL CONSTRUCTION TESTING AND MATERIALS TO COMPLY WITH 1200 SERIES OF SPECIFICATIONS.
    - PIPE BEDDING TO BE CLASS B AS PER SABS 1200 LB WITH BEDDING CRADLE OF SELECTED FILL QUALITY.
    - PIPES AS PER DRAWING.
    - WHERE STORMWATER PIPES CROSS THE SEWER LINE A CLASS 'A' BEDDING MUST BE PROVIDED 2.0m EACH WAY UNDER THE STORMWATER LINE.
    - MINIMUM FALLS ON ALL PIPES = 1:100 U.O.S.
  - MATERIALS:**
    - ALL BRICKS TO BE ENGINEERING UNITS TYPE NFXE-14 AS PER SABS 227 & 285.
    - 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.
    - STORMWATER PIPES TO BE SPIGOT AND SOCKET, CLASS 1000 TO BE USED UNDER ROADWAYS AND 500 IN NON-TRAFFICED AREAS.
    - HDPE STORMWATER PIPES TO BE 8KN/m² RING STIFFNESS CORRUGATED PIPES AS SUPPLIED BY MAGNUM OR SIMILAR APPROVED.
    - STEP IRONS TO COMPLY WITH SABS 1247.
    - DOE TO THE CORROSIVE NATURE OF THE SOIL NO GALVANISED MATERIAL MAY BE USED.
  - NOTE ON STORMWATER CONNECTIONS:**
    - CONTRACTOR TO LOCATE THE EXISTING STORMWATER PIPES ON SITE AND VERIFY ALL INVERT LEVELS WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION. THE EXISTING SERVICES ARE TO ADEQUATELY PROTECTED AND ANY DAMAGE IS TO BE REPAIRED AT THE CONTRACTORS COST.
    - 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.
    - ALL PIPES MUST BE LAID UNDER SOFFIT.



**ISSUE / REVISION**

ISSUE / REVISION	DATE	DESCRIPTION	ISS BY
4	2021-10-06	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**  
DEVCMO

**PROJECT**  
SALTA INFRASTRUCTURE

**DRAWING CHECKS**

DESIGNED BY: D. van MERWE  
 DRAWN BY: J. OOSTHUIZEN  
 CHECKED BY: D. van MERWE  
 APPROVED BY: D. van MERWE

**DRAWING TITLE**  
STORMWATER LONGSECTIONS NETWORK 7 SHEET 2

**SCALE** As indicated

DRAWING NUMBER	REV
2019-0173-C-5863	4