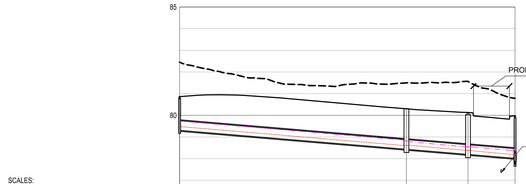
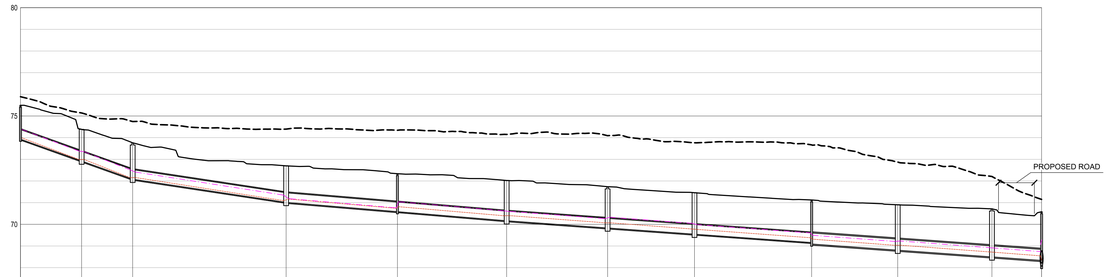


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 75.000

NODE		SW11.2-1	SW11.2-2	SW11.2-3	SW11.1-8	
NODE TYPE		KERB INLET	JUNCTION BOX	MANHOLE	KERB INLET	
DISTANCE (m)		0.000	52.332	66.549	77.424	
FINAL LEVEL		80.86	80.30	80.13	79.98	
DEPTH TO INVERT						
PIPE INVERT LEVEL		79.309	79.433 79.433	79.196 79.196	79.015	
SLOPE / LENGTH			1.67% 1:60.0 52.33m	1.67% 1:60.0 14.22m	1.67% 1:60.0 10.85m	
HYDRAULICS	DESIGN	Q(m3/s) V(m/s)	0.11 2.2	0.10 1.8	0.10 1.9	
	MAX. (0.8D)	Q(m3/s) V(m/s)	0.38 2.8	0.38 2.8	0.38 2.8	
PIPE SPECIFICATION			450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKE	450mm Ø SPIGOT & SOCKET	

LONGSECTION
NETWORK 11 _ SW11.2-1

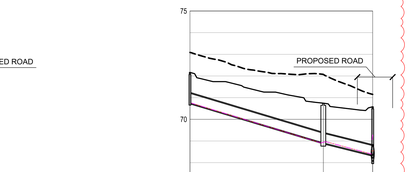


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 65.000

NODE		SW11.3-1	SW11.3-2	SW11.3-3	SW11.3-4	SW11.3-5	SW11.3-6	SW11.3-7	SW11.3-8	SW11.3-9	SW11.3-10	SW11.3-11	SW11.1-12
NODE TYPE		KERB INLET	JUNCTION BOX	MANHOLE	JUNCTION BOX	KERB INLET	JUNCTION BOX	MANHOLE	JUNCTION BOX	KERB INLET	JUNCTION BOX	MANHOLE	KERB INLET
DISTANCE (m)		0.000	14.109	26.886	61.295	86.981	112.160	135.479	155.026	182.559	202.423	224.183	235.624
FINAL LEVEL		75.49	74.38	73.76	72.70	72.34	72.02	71.74	71.46	71.13	70.90	70.71	70.58
DEPTH TO INVERT													
PIPE INVERT LEVEL		74.929	72.821 72.821	72.580 72.580	71.011 71.011	70.903 70.903	70.163 70.163	69.930 69.930	69.544 69.544	69.157 69.0686	68.860 68.860	68.648 68.648	68.339
SLOPE / LENGTH			7.14% 1:14.0 14.11m	7.14% 1:14.0 11.78m	3.02% 1:33.1 35.41m	1.67% 1:60.0 25.69m	1.67% 1:60.0 25.20m	1.43% 1:70.0 23.30m	1.43% 1:70.0 20.05m	1.43% 1:70.0 27.03m	1.43% 1:70.0 19.86m	1.43% 1:70.0 21.74m	1.43% 1:70.0 11.46m
HYDRAULICS	DESIGN	Q(m3/s) V(m/s)	0.03 2.8	0.03 2.7	0.03 2.2	0.03 0.6	0.16 2.1	0.16 1.9	0.16 2.3	0.16 2.1	0.16 1.9	0.16 2.0	0.16 2.0
	MAX. (0.8D)	Q(m3/s) V(m/s)	0.78 5.9	0.78 5.9	0.51 3.8	0.38 2.8	0.38 2.8	0.35 2.6	0.35 2.6	0.35 2.6	0.51 2.9	0.51 2.9	0.51 2.9
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	525mm Ø SPIGOT & SOCKET	525mm Ø SPIGOT & SOCKET	525mm Ø SPIGOT & SOCKET

LONGSECTION
NETWORK 11 _ SW11.3-1

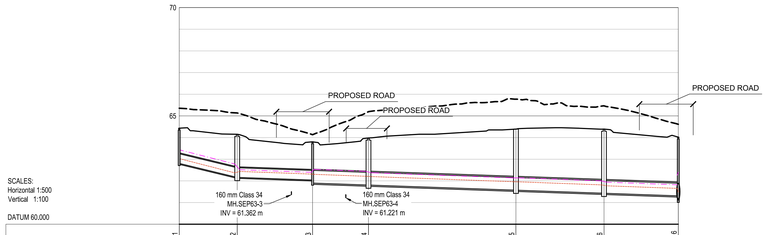


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 65.000

NODE		SW11.4-1	SW11.4-2	SW11.1-13		
NODE TYPE		KERB INLET	MANHOLE	KERB INLET		
DISTANCE (m)		0.000	30.773	42.168		
FINAL LEVEL		72.17	70.74	70.58		
DEPTH TO INVERT						
PIPE INVERT LEVEL		70.29	68.811 68.811	68.341		
SLOPE / LENGTH			6.00% 1:16.7 30.77m	5.00% 1:20.0 11.40m		
HYDRAULICS	DESIGN	Q(m3/s) V(m/s)	0.00 0.0	0.00 0.0		
	MAX. (0.8D)	Q(m3/s) V(m/s)	0.66 4.9	0.66 4.9		
PIPE SPECIFICATION			450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET		

LONGSECTION
NETWORK 11 _ SW11.4-1

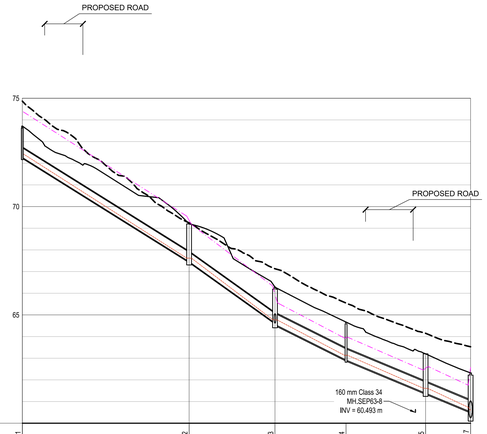


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 60.000

NODE		SW11.5-1	SW11.5-2	SW11.5-3	SW11.5-4	SW11.5-5	SW11.5-6	SW11.1-15	
NODE TYPE		KERB INLET	MANHOLE	KERB INLET	MANHOLE	JUNCTION BOX	MANHOLE	KERB INLET	
DISTANCE (m)		0.000	13.364	30.772	43.674	77.695	98.022	115.564	
FINAL LEVEL		64.43	64.15	63.80	63.98	64.39	64.39	64.02	
DEPTH TO INVERT									
PIPE INVERT LEVEL		62.808	63.181 62.181	62.039 61.889	61.809 61.809	61.511 61.511	61.429 61.429	61.389	
SLOPE / LENGTH			4.84% 1:20.7 13.38m	0.70% 1:143.0 17.39m	0.70% 1:143.0 12.90m	0.70% 1:143.0 34.02m	0.70% 1:143.0 20.33m	0.70% 1:143.0 17.14m	
HYDRAULICS	DESIGN	Q(m3/s) V(m/s)	0.14 2.8	0.12 1.3	0.30 2.1	0.30 1.8	0.30 1.9	0.30 1.8	
	MAX. (0.8D)	Q(m3/s) V(m/s)	0.54 4.0	0.24 1.8	0.51 2.2	0.51 2.2	0.51 2.2	0.51 2.2	
PIPE SPECIFICATION			450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	600mm Ø SPIGOT & SOCKET	

LONGSECTION
NETWORK 11 _ SW11.5-1



SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 60.000

NODE		SW11.6-1	SW11.6-2	SW11.6-3	SW11.6-4	SW11.6-5	SW11.1-17	
NODE TYPE		KERB INLET	JUNCTION BOX	MANHOLE	KERB INLET	JUNCTION BOX	MANHOLE	
DISTANCE (m)		0.000	38.490	58.306	74.707	93.059	103.443	
FINAL LEVEL		73.12	69.20	66.28	64.67	63.20	62.32	
DEPTH TO INVERT								
PIPE INVERT LEVEL		72.297	67.456 67.456	64.625 64.555	62.916 62.916	61.366 61.366	60.531	
SLOPE / LENGTH			12.50% 1:8.0 38.49m	14.29% 1:7.0 19.82m	10.00% 1:10.0 16.40m	8.33% 1:12.0 18.35m	8.33% 1:12.0 10.38m	
HYDRAULICS	DESIGN	Q(m3/s) V(m/s)	0.30 6.2	0.28 5.5	0.29 4.0	0.36 4.0	0.37 4.5	
	MAX. (0.8D)	Q(m3/s) V(m/s)	1.04 7.8	1.11 8.3	1.36 7.6	1.24 7.0	1.24 7.0	
PIPE SPECIFICATION			450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	525mm Ø SPIGOT & SOCKET	525mm Ø SPIGOT & SOCKET	525mm Ø SPIGOT & SOCKET	

LONGSECTION
NETWORK 11 _ SW11.6-1

STORMWATER LEGEND

- Ø — EXISTING STORMWATER
- Ø — NEW STORMWATER PIPE REFER TO LONG SECTION FOR PIPE TYPE & DIA
- Ø — NEW SUB-SOIL LINE
- (DS:X / CP:X / US:X) — NEW KERB INLET
  - TRANSITION LENGTH UPSTREAM (US)
  - CATCHPIT LENGTH (CP)
  - TRANSITION LENGTH DOWNSTREAM (DS)
- GI — NEW GRID INLET
- JB — NEW JUNCTION BOX
- MH — NEW MANHOLE
- EXGI — EXISTING GRID INLET
- EXJB — EXISTING JUNCTION BOX
- EXMH — EXISTING MANHOLE

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 100D TO BE USED UNDER ROADWAYS AND 50D 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 EXSTING STORMWATER PIPES ON SITE AND VERIFY ALL INVERT LEVELS WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION.
3.2. THE EXSTING SERVICES ARE TO ADEQUATELY PROTECTED AND ANY DAMAGE IS TO REPAIRED AT THE CONTRACTORS COST.
3.3. ALL NEW STROMWATER 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.

LOCALITY PLAN

ISSUE / REVISION

IR	DATE	DESCRIPTION	ISS BY
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

STRUXIT PROJECTS

ARCHITECT

COA

CLIENT

DEVMCO

PROJECT

SALTA INFRASTRUCTURE

DRAWING CHECKS

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

DRAWING TITLE

STORMWATER LONGSECTIONS
NETWORK 11 SHEET 3

SCALE As indicated

DRAWING NUMBER: 2019-0173-C-5876
REV: 3

ISO FULL BLEED A0 (841.00 X 1189.00 MM)