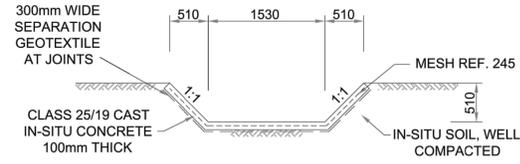
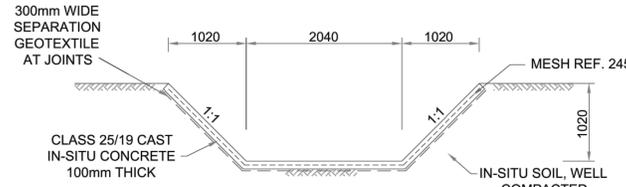


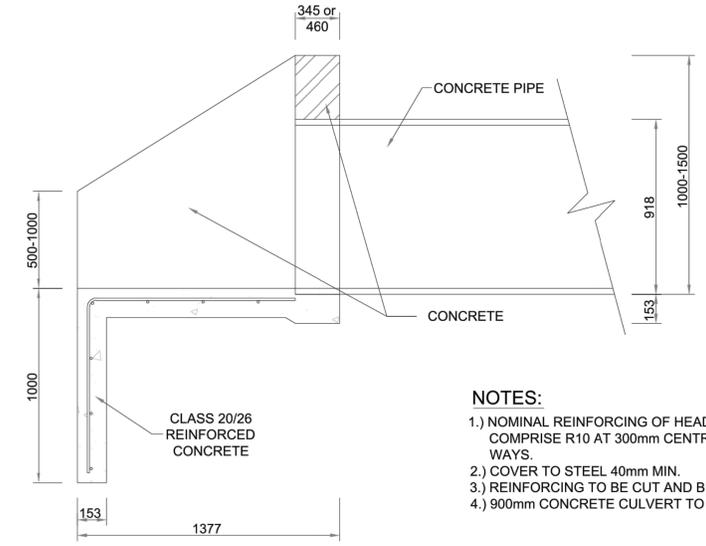
CONTAMINATED WATER DRAIN - TYPE D1
SCALE: 1:50



CONTAMINATED WATER DRAIN - TYPE D2
SCALE: 1:50



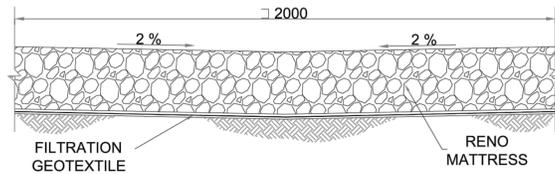
CONTAMINATED WATER DRAIN - TYPE D3
SCALE: 1:50



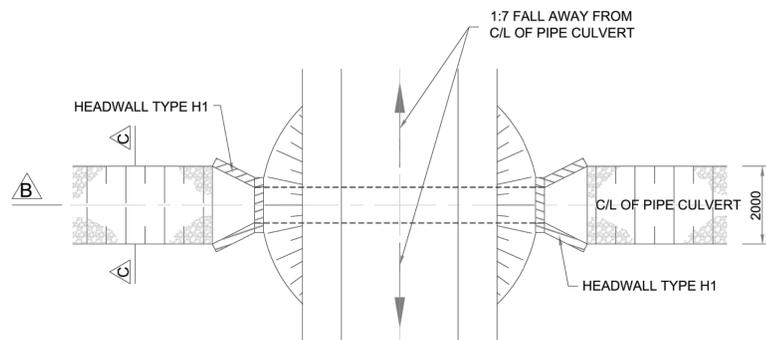
HEADWALL SECTION SHOWING REINFORCING DETAIL
SCALE: 1:20

- NOTES:**
- 1.) NOMINAL REINFORCING OF HEADWALL TO COMPRISE R10 AT 300mm CENTRES BOTH WAYS.
 - 2.) COVER TO STEEL 40mm MIN.
 - 3.) REINFORCING TO BE CUT AND BENT ON SITE.
 - 4.) 900mm CONCRETE CULVERT TO BE CLASS 50D.

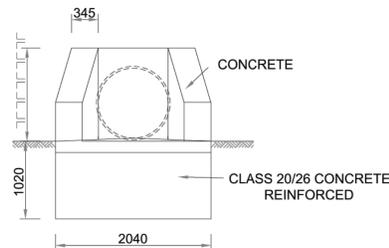
- NOTES:**
- 1.) PROVIDE DEBONDED CONSTRUCTION JOINTS AT 2.5m c/c.
 - 2.) PROVIDE 300mm WIDE STRIP OF SEPARATION GEOTEXTILE AT EACH JOINT.
 - 3.) PANELS TO BE REINFORCED WITH REF. 245 MESH AT TOP.
 - 4.) 300mm LAP LENGTH, 40mm CONCRETE COVER.



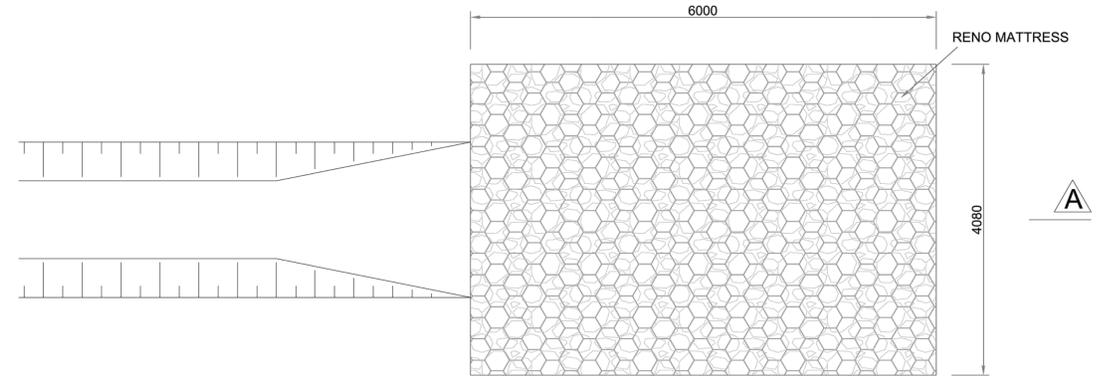
SECTION CC



PLAN

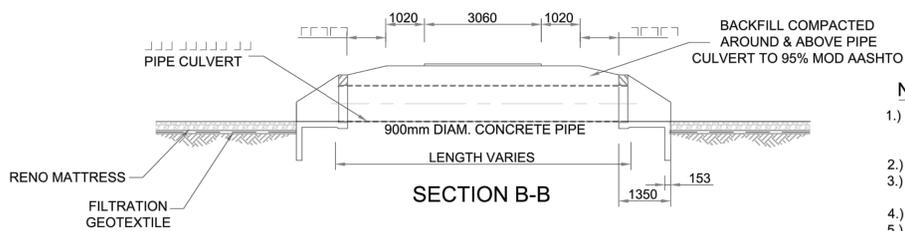


TYPICAL HEADWALL - TYPE H1 (ELEVATION)
SCALE: 1:50



DISCHARGE POINT FROM CLEAN WATER DRAIN (PLAN)
SCALE: 1:50

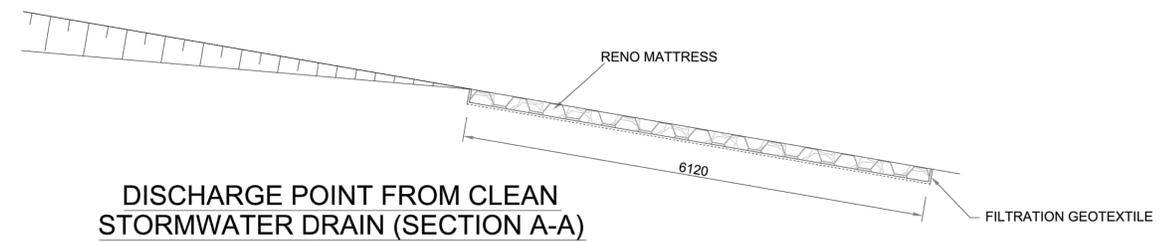
- NOTES:**
- 1.) FILTRATION GEOTEXTILE TO BE NONWOVEN, NEEDLE PUNCHED POLYESTER MIN. 600N TEAR STRENGTH & 4MPa BURST STRENGTH.
 - 2.) RENO MATTRESS TO BE 170mm HEIGHT.
 - 3.) RENO MATTRESS WIRE TENSILE STRENGTH COATED (CLASS A AS PER SANS 675:1997)
 - 4.) ROCK FILL MUST BE BETWEEN 75mm AND 150mm IN SIZE.



SECTION B-B

ROAD CROSSING OVER EMERGENCY OVERFLOW DISCHARGE
SCALE: 1:100

- NOTES:**
- 1.) NOMINAL REINFORCING OF HEADWALL TO COMPRISE R10 AT 300mm CENTRES BOTH WAYS.
 - 2.) COVER TO STEEL 40mm MIN.
 - 3.) REINFORCING TO BE CUT AND BENT ON SITE.
 - 4.) 900mm CONCRETE CULVERT TO BE CLASS 50D.
 - 5.) RENO MATTRESS TO BE 230mm DEEP.
 - 6.) RENO MATTRESS TO SLOPE FROM EITHER SIDE TOWARDS THE CENTRE LINE AT 2% (REFER TO DETAIL A ABOVE)
 - 7.) RENO MATTRESS WIRE TENSILE STRENGTH COATED (CLASS A AS PER SANS 675:1997)
 - 8.) ROCK FILL MUST BE BETWEEN 75mm AND 150mm IN SIZE.
 - 9.) FILTRATION GEOTEXTILE TO BE NONWOVEN, NEEDLE PUNCHED POLYESTER MIN. 600N TEAR STRENGTH & 4MPa BURST STRENGTH.



DISCHARGE POINT FROM CLEAN STORMWATER DRAIN (SECTION A-A)
SCALE: 1:50

FOR TENDER
NOT FOR CONSTRUCTION

		DESIGN APPROVED		DRAWN BY		CONSULTANTS:		CLIENT:		FILE No		TYPE OF PLANNING	
		APPROVED BY		DRAWING CHECKED		MAVIMBELA QUANTITY SURVEYORS		PIKITUP JOHANNESBURG SOC LTD		-		TENDER DRAWING	
		DATE		DESIGNED BY:		15 FIDDES STREET BRONKHORSTSPRUIT 1020		JORISSEN PLACE 46 JORISSEN STREET BRAAMFONTEIN		AGREEMENT No		CONTRACT No	
		DATE		DESIGNED CHECKED BY:		Tel: (013) 933 0164 Fax:		Tel: (011) 712 5200 Fax: (011) 712 5322		-		SCMPK 61/2021-22	
for CONSULTANT		for HEAD OF DEPARTMENT		DATE		DATE		DATE		ROAD No.s		SCALE	
DATE:		DATE:		No		DATE		DATE		-		AS SHOWN	
		AMENDMENTS		CONSULT ENG.		for DEPUTY DIRECTOR: DESIGN		DATE		DISTRICT		DWG No	
										JOHANNESBURG		20700-SD-07	
GOUKOPIES LANDFILL SITE PROJECT										DRAINAGE DETAILS			