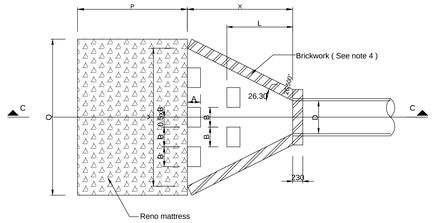


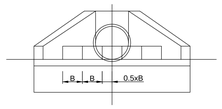
PLAN OF HEADWALL - TYPE H1

NOM. PIPE DIA.	DIMENSIONS (mm)							
D	A	B	C	L	X	Y	P	Q
375	250	200	250	750	1800	2175	4000	3000
450	250	200	250	900	1800	2250	4000	3000
525	250	375	250	1050	2000	2525	6000	4000
600	300	450	300	1200	2200	2800	6000	4000
750	300	450	300	1500	2400	3150	6000	4000
825	300	450	300	1650	2600	3425	6000	6000
900	300	450	450	1800	2800	3700	6000	6000
1050	300	450	450	2100	3000	4050	6000	6000
1200	300	450	450	2400	3200	4400	6000	6000
1350	300	450	450	2600	3500	4790	6000	6000

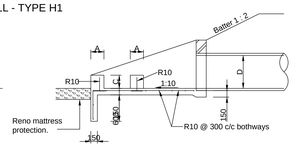
1. Mattress thickness as specified by Engineer.
2. Concrete grade 25/20.
3. Cover to steel 40mm minimum.
4. Reinforcement to be cut and bent on site Minimum laps 500mm.
5. Headwall brickwork sizes (in mm)

Wall height	Brickwork
0-1100	230
1100-1400	345
1400-1800	460

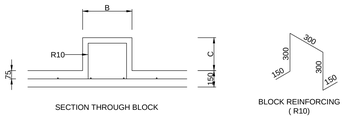
6. All exposed brickwork to be facebrick, Rustic tan
7. No splitter blocks are required for inlet headwall structures.
8. The reno mattress is to be upturned at the edges to ensure that the water flows off the concrete apron and onto the mattress.



HEADWALL ELEVATION



SECTION C - C

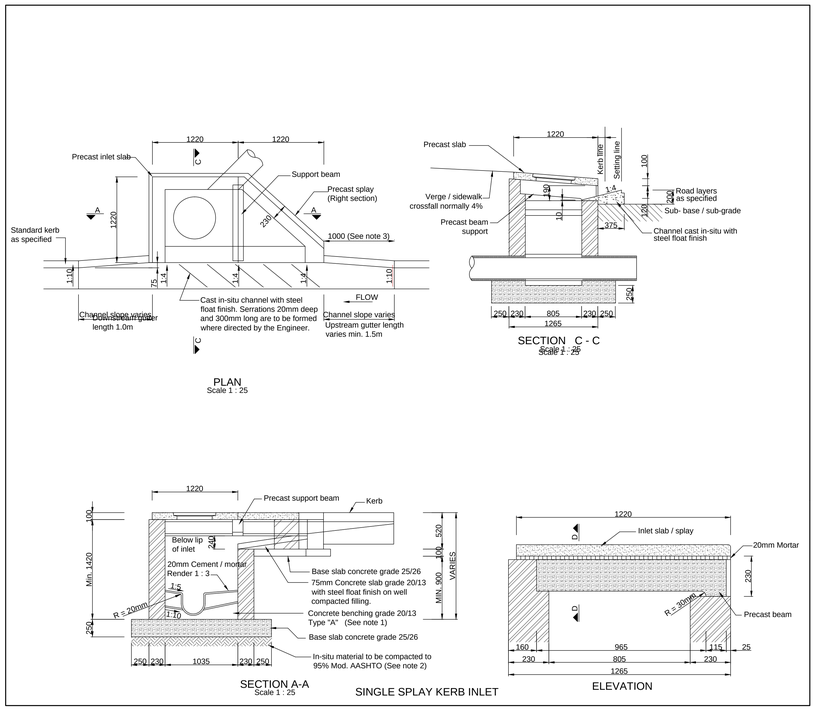


SECTION THROUGH BLOCK

BLOCK REINFORCING (R10)

SPLITTER BLOCK DETAILS

TYPE H1 HEADWALL
Not to Scale

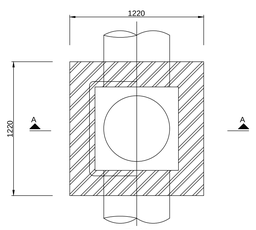


NOTES :

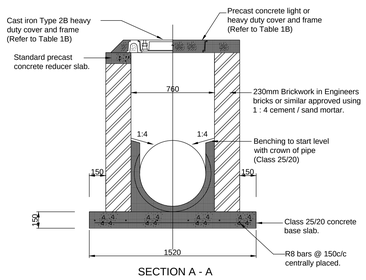
1. Type "A" benching to be used for S.W. inlets on continuous pipelines. For S.W. inlets located at the head of the pipeline the benching need only be dished at a grade of 1 : 10 to the outlet.
2. The in-situ ground must be compacted to 95% Mod. AASHTO prior to the inlet base slab being cast. If this density cannot be attained, the in-situ material must be removed to a depth of 500mm and replaced with a selected backfill.
3. 1.5m Transition from kerb line to catchpit line.

NOTES:

FOR STORMWATER RETICULATION, PLEASE REFER TO DWG B02-PZB-000084-10

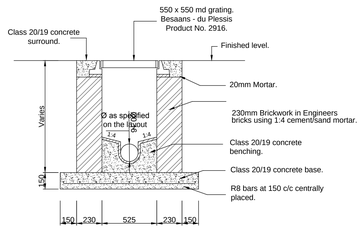


PLAN
Scale 1 : 20

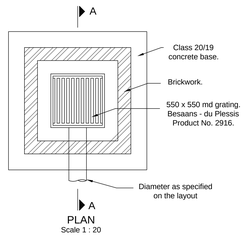


SECTION A - A
Scale 1 : 20

Stormwater Manhole: TYPE S1
Typical Manhole for Pipes up to and including 600mmØ and less than 2,0m deep.

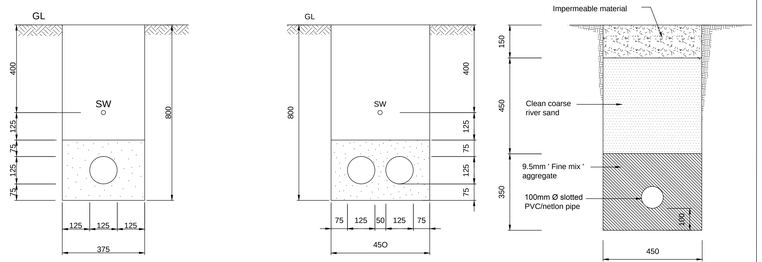


SECTION A - A
Scale 1 : 20



PLAN
Scale 1 : 20

TYPICAL STORMWATER INLET MANHOLE

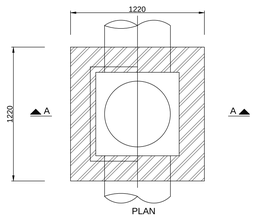


TYPICAL SUBSOIL DRAIN DETAIL

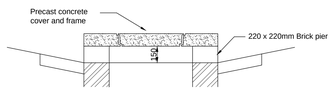
CABLE DUCT LAYOUT

NOTES:

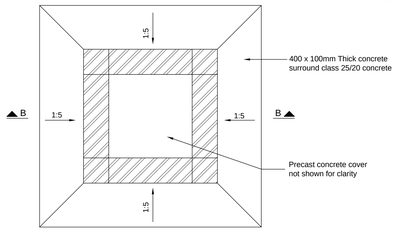
1. For cable duct headwall positions refer to plan no. 38581.
2. Duct surrounds are to vary according to the location of the ducts:
   a) Road crossing: ducts shall generally be encased in grade 20/26 concrete. For encasement dimensions see plan no. 38
   b) Verges and minor roads: ducts shall be bedded in a Selected granular material backfill. The granular bedding is to be laid to a height of 150mm above the top duct.



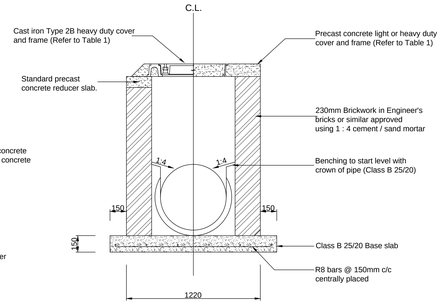
PLAN



SECTION B - B



ALTERNATIVE COVER DETAIL FOR FIELD INLET



SECTION A-A

STORMWATER MANHOLE FOR FIELD INLETS
Scale 1 : 20

MANHOLE COVERS AND FRAMES	
TYPE	WHERE REQUIRED
Cast Iron type 24 heavy duty	In roadways and parking
Precast concrete heavy duty	In road reserves other than above
Precast concrete light duty	In servitudes outside road reserves

Notes:

1. All dimensions to be checked on site before any work is put in hand. Refer any discrepancies to the engineer.
2. Stormwater manholes are to be raised two brick courses above adjacent ground level until bulk earthworks construction is complete.
3. Contractor to check all levels and setting out information prior to construction.
4. All work to be carried out in accordance with SABS 1200 Series specifications and the Project Specifications.
5. All sewer pipes to be 160mmØ Class 34 H.D. uPVC unless otherwise specified
6. All sewer pipes to be laid on flexible pipe bedding unless otherwise specified.
7. All manholes to have Light Duty (LD) concrete covers unless otherwise specified.
8. All local fill to be compacted to 93% Mod. AASHTO unless otherwise specified.
9. All existing services to be proved prior to excavation.
10. All major stormwater pipes to be class 75D spigot and socket concrete pipes laid on class C bedding.
11. Individual house stormwater drainage pipes to be 160mmØ class 51 uPVC laid on flexible pipe bedding unless otherwise specified.

READ THIS DRAWING ON CONJUCNTION WITH DWG B02-PZB-000084-10

ISSUED FOR CONSTRUCTION

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SARS

PROJECT:
SARS PIER 1 STATE WAREHOUSE

PURPOSE OF ISSUE:
ISSUED FOR CONSTRUCTION

DRAWING DESCRIPTION:
EXTERNAL WORKS:
TYPICAL STORMWATER DETAILS

DESIGNED BY: S. JAMALI	SIGNATURE AND DATE:
DESIGN CHECKED BY: F. KAMBA	SIGNATURE AND DATE:
DRAWN BY: S. JAMALI	SIGNATURE AND DATE:
DRAWING CHECKED BY: F. KAMBA	SIGNATURE AND DATE:
ENGINEERS FINAL APPROVAL: F. KAMBA	SIGNATURE AND DATE:
PROJECT NUMBER: B03-DUR-000084	PAPER SIZE: A0
SHEET NUMBER: SHEET 1 OF 1	SCALE FACTORS: AS SHOWN

REVISION INFORMATION

NO	DATE ISSUED	CHANGED	DESCRIPTION OF CHANGE	APPROVED
0	05.12.2016	SJ	ISSUED FOR CONSTRUCTION	FK

B02-PZB-000084-11 REV 0