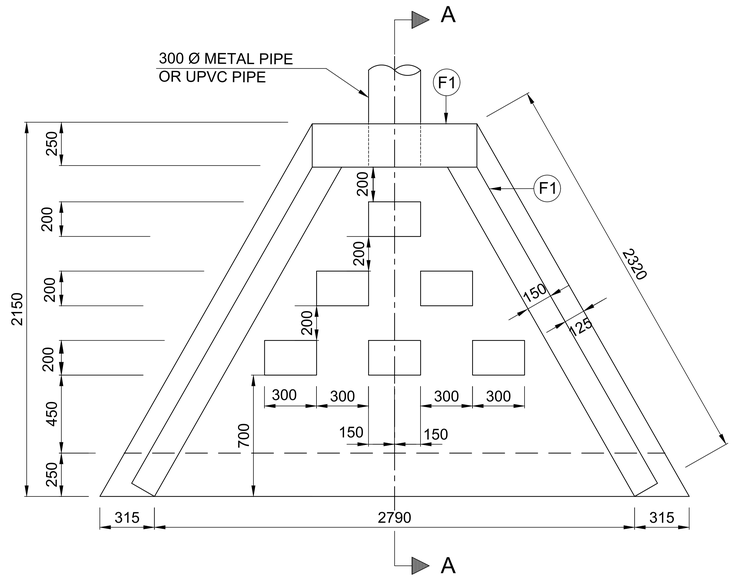
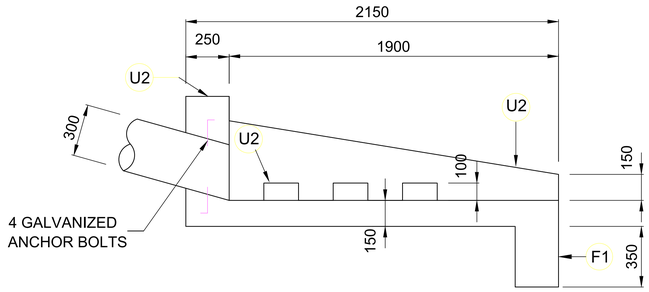


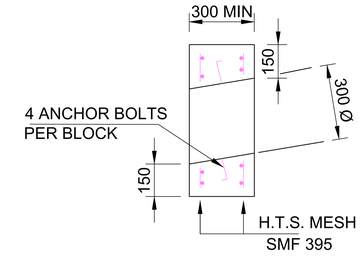
PLAN OF ENERGY BREAKER

SCALE 1:12,5



SECTION A-A

SCALE 1:12,5

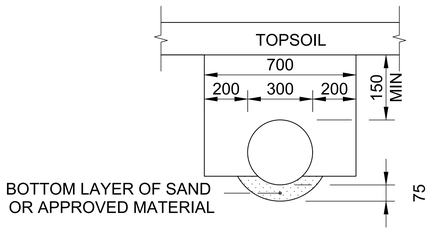


SECTIONAL VIEW OF ANCHOR BLOCK

SCALE : SCHEMATIC

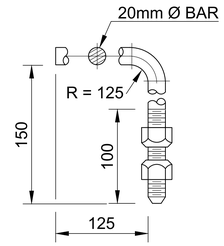
NOTES FOR ANCHOR BLOCKS

1. "ARMCO" PIPE LENGTH = L.
   FOR L = 0m 10m : 1 ANCHOR BLOCK.
   FOR L = 10m 15m : 2 ANCHOR BLOCKS.
   FOR L = 15m 20m : 3 ANCHOR BLOCKS.
   FOR L = 20m 30m : 4 ANCHOR BLOCKS.
2. ANCHOR BLOCKS MUST BE SPACED AT EQUAL DISTANCES.
3. ANCHOR BLOCKS TO BE CAST AGAINST NEAT EXCAVATION. (NO FORMWORK)



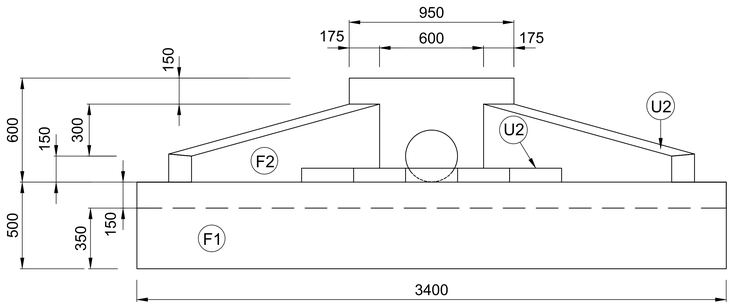
BEDDING FOR DOWN PIPES

SCALE 1:5



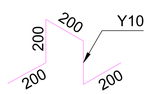
GALVANIZED ANCHOR BOLT

N.T.S.



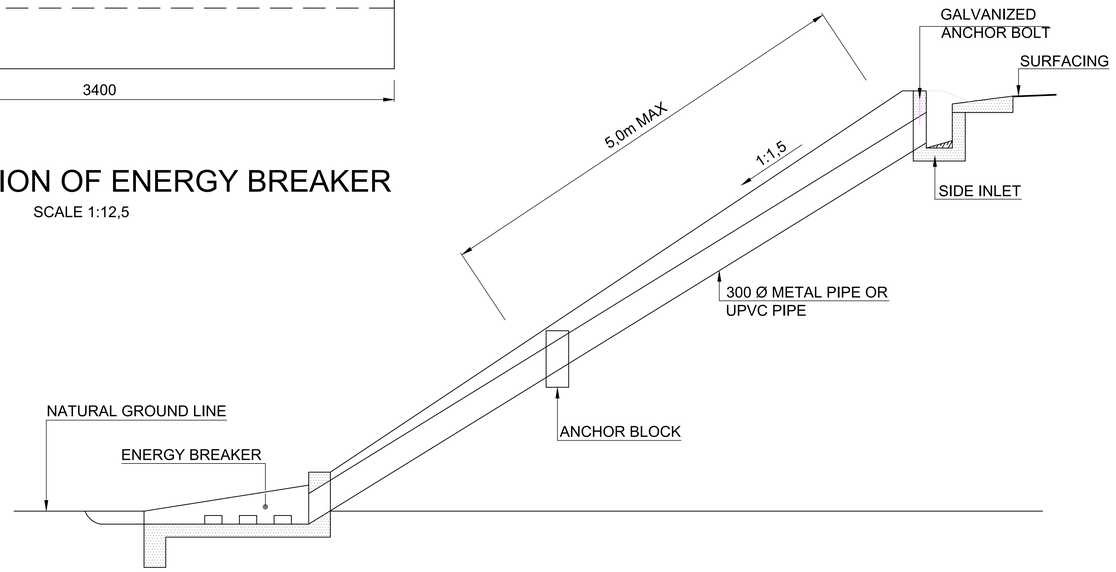
FRONT ELEVATION OF ENERGY BREAKER

SCALE 1:12,5



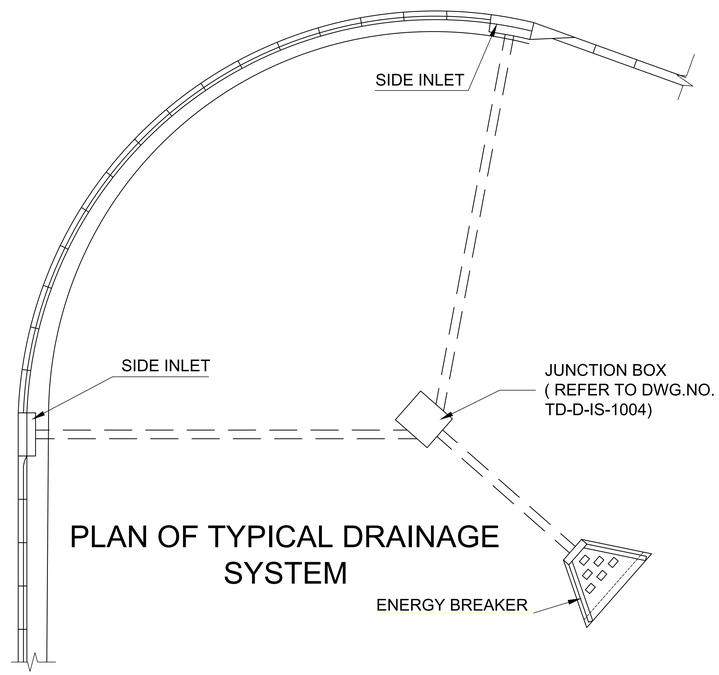
FIXING BAR

(2 PER BLOCK)
SCALE 1:10



LONGITUDINAL SECTION OF DOWN PIPE AND ENERGY BREAKER

SCALE 1:25



PLAN OF TYPICAL DRAINAGE SYSTEM

No.	DATE	REVISION
V1	08/03/2024	ORIGINAL VERSION

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600

ACCEPTANCE

THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

INLET STRUCTURES
DOWN PIPES FOR SIDE INLETS
SHEET 2 OF 6

SCALE @ A0: AS SHOWN | SHEET 2 OF 6

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.900	33.000
DRAWING TYPE	DRAINAGE - INLET STRUCTURES	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD63	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD63