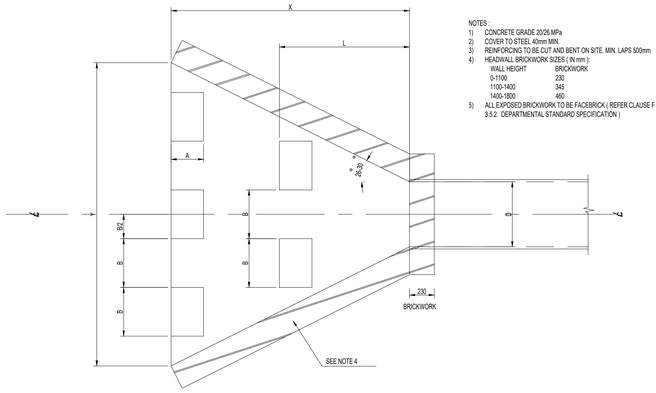
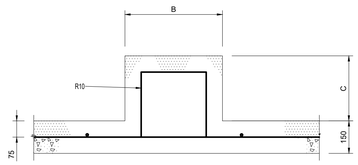


NOTES :
1) CONCRETE GRADE 20/26 MPa
2) COVER TO STEEL 40mm MIN.
3) REINFORCING TO BE CUT AND BENT ON SITE. MIN. LAPS 500mm
4) HEADWALL BRICKWORK SIZES (IN mm):

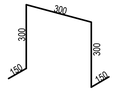
WALL HEIGHT	BRICKWORK
0-1100	230
1100-1400	345
1400-1800	460

5) ALL EXPOSED BRICKWORK TO BE FACEBRICK (REFER CLAUSE F 3.5.2. DEPARTMENTAL STANDARD SPECIFICATION)

PLAN OF TYPES `A' AND `B' HEADWALLS
SCALE 1:20

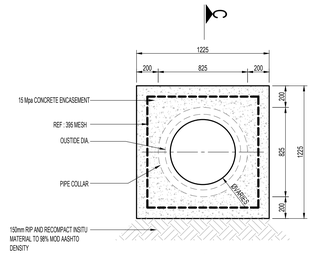


SECTION THROUGH BLOCK

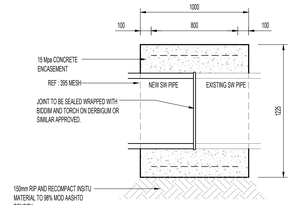


BLOCK REINFORCING (R 10)

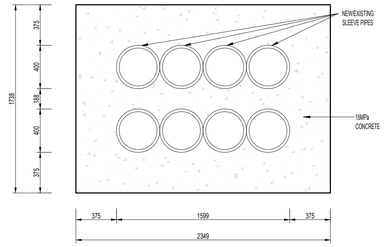
SPLITTER BLOCK DETAILS
NTS



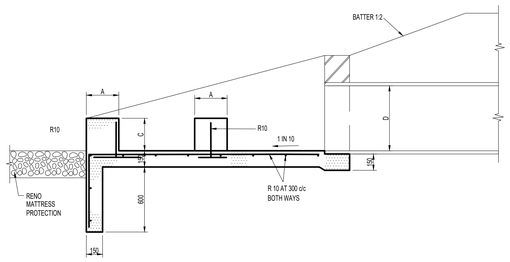
TYPICAL CROSS SECTION THROUGH CONCRETE PIPE ENCASING
SCALE 1:25



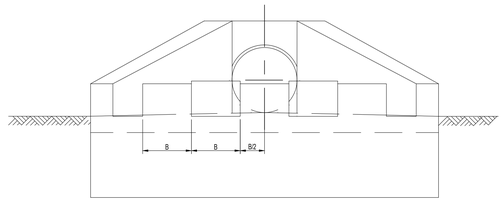
SECTION C-C
SCALE 1:25



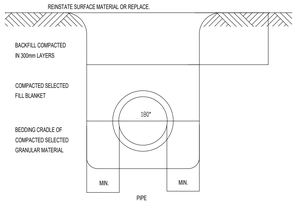
TYPICAL ENCASING DETAILS
SCALE 1:25



TYPE `A' HEADWALL WHERE PIPE GRADE IS LESS THAN 20% (1:5)
SCALE 1:20

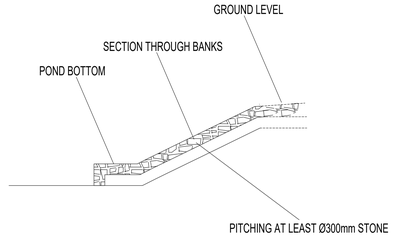


TYPE `A' HEADWALL - ELEVATION
SCALE 1:20

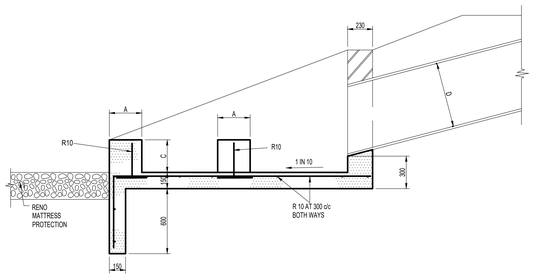


TYPICAL SECTION
CLASS B BEDDING DETAIL (1200 LB-1b)
RIGID PIPE
N.T.S

D	C
OVER - UP TO	
- 125mm	300mm
125mm - 700mm	300mm
700mm - 1000mm	400mm
1000mm - 2000mm	500mm
2000mm -	600mm



SCOUR PROTECTION TYPICAL SECTION
SCALE 1:20



TYPE `B' HEADWALL WHERE PIPE GRADE IS GREATER THAN 20% (1:5)
SCALE 1:20

NOM. PIPE DIA.	DIMENSIONS (mm)					
D	A	B	C	L	X	Y
375	245	350	250	980	1800	2175
450	245	360	250	980	1800	2250
525	250	375	250	1050	2000	2525
600	300	450	300	1200	2200	2800
750	300	450	300	1500	2400	3150
825	300	450	300	1650	2600	3425
900	300	450	300	1800	2800	3700
1050	300	450	300	2100	3000	4050
1200	300	450	300	2400	3200	4400

BRICK HEADWALL DETAILS

DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES:
a. MEASUREMENTS ARE BASED ON METRIC SYSTEM.
b. ALL LEVELS ARE IN METERS TO MEAN SEA LEVELS (MSL)
c. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
d. THE CONTRACTOR SHALL VERFIY ALL SERVICES OR CONDITIONS ON THE SITE AND NOTIFY THE ENGINEERING OF ANY VARIATIONS FROM DIMENSIONS BEFORE CONSTRUCTION.

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION	HvdW	RM	RN	28/04/2023
00	ISSUED FOR APPROVAL	HvdW	RM	RN	01/03/2023

REVISIONS

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CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET PORT TERMINALS

TITLE	NAME	SIGN	DATE
DRAWN	HvdW		01 03 23
CHECKED	RM		01 03 23
DESIGNED	HvdW		01 03 23
CHECKED	RM		01 03 23

PR.ENG. / PR.TECH./PR. ARCH

NAME	R. NAIDOO	DATE
SIGNATURE		28 04 23
REG. NUMBER	20107216	

Transnet Port Terminals

PORT OF SALDANHA

SALDANHA STORMWATER MANAGEMENT

TYPICAL HEADWALL, SCOUR & CONCRETE ENCASEMENT DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
5200157-27		0001	C	DE	0001	04	01	HD

SCALE : AS SHOWN A0