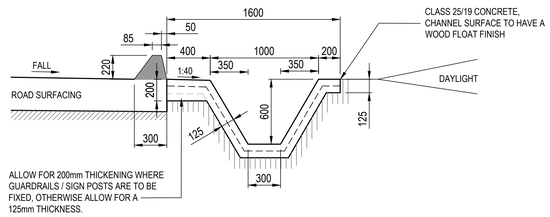


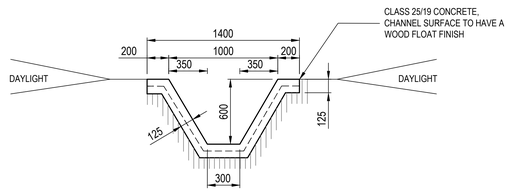
TYPE 1 CHANNEL FLUSH WITH ROAD EDGE)

PARALLEL DRAINAGE BEHIND KERB
(WITH 500mm KERB OPENINGS AS PER KERB DETAIL DRAWING)



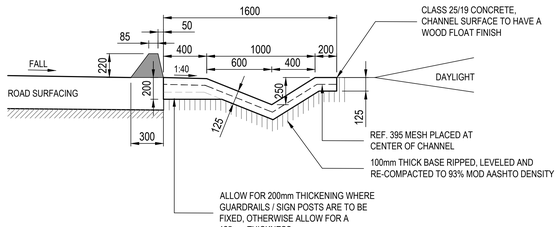
TYPE 3 CHANNEL (FLUSH WITH ROAD EDGE)

PARALLEL DRAINAGE BEHIND KERB
(WITH 500mm KERB OPENINGS AS PER KERB DETAIL DRAWING)



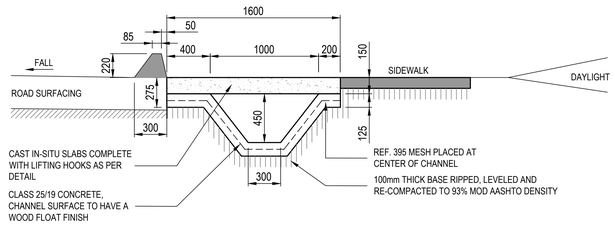
TYPE 5 CHANNEL

PARALLEL DRAINAGE
(LINED CHANNEL IN VELD)



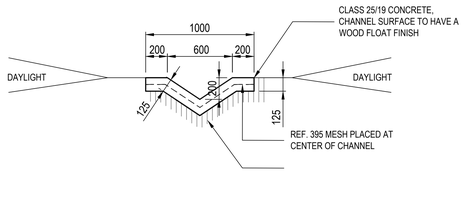
TYPE 2 CHANNEL (FLUSH WITH ROAD EDGE)

PARALLEL DRAINAGE BEHIND KERB
(WITH 500mm KERB OPENINGS AS PER KERB DETAIL DRAWING)



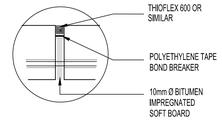
TYPE 4 CHANNEL (AT PEDESTRIAN CROSSING)

PARALLEL DRAINAGE BEHIND KERB
(WITH VARYING KERB OPENINGS AS PER BUS BAY / PEDESTRIAN CROSSING DETAIL DRAWING)



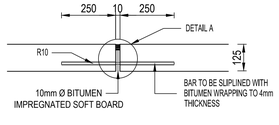
TYPE 6 CHANNEL

PARALLEL DRAINAGE
(LINED CHANNEL IN VELD)



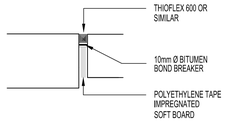
DETAIL A

SCALE 1:5



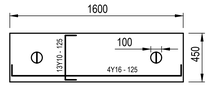
EXPANSION JOINT IN CHANNEL SLAB (max spacing 3m)

SCALE 1:10

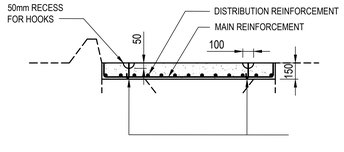


EXPANSION JOINT AGAINST SIDEWALK

SCALE 1:5



PLAN VIEW



SECTION THROUGH SLAB

PEDESTRIAN BRIDGE DETAIL PRE-CAST SLABS

NOTES FOR PRE-CAST COVER SLABS

1. CONCRETE TO BE CLASS 25/19 (25MPa)
2. CONCRETE TO BE CURED FOR A MINIMUM PERIOD OF 7 DAYS.
3. MINIMUM COVER TO REINFORCEMENT = 20MM
4. LIFTING HANDLES AS SPECIFIED OR OTHERWISE APPROVED BY THE ENGINEER.

5. REINFORCEMENT

   I) TYPE, BAR AND SPACING AS SPECIFIED. MILD STEEL LIFTING HOOKS FIXED TO MAIN REINFORCEMENT (10mm DIAMETER)

   II) MAIN REINFORCEMENT TO BE SHAPE CODE 38, WITH HOOK LENGTH (A DIMENSION) NOT LESS THAN T - 60, EXCEPT FOR SLABS WITH A SPAN NOT EXCEEDING 1000mm, WHERE NO HOOKS ARE REQUIRED AND SHAPE CODE 20 IS USED.

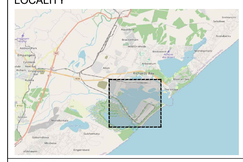
CHANNEL NOTES

1. MAXIMUM LONGITUDINAL SLOPE SHOULD BE SUCH THAT THE FLOW VELOCITIES DO NOT EXCEED 3.5m/s.
2. UNLINED SIDE DRAINS ARE ONLY PERMITTED WHERE THE FLOW VELOCITY IS LESS THAN 1.5m/s FOR A 2yr STORM AND NO POLLUTION IS EXPECTED.
3. SOFTBOARD FILLED JOINTS (10mm) TO BE PROVIDED AT MAX. 3m CENTERS.

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

LOCALITY



LEGEND

SYMBOL	DESCRIPTION

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
E2	FOR TENDER	RR	HVDM	HVDM	18 07 25
E1	FOR TENDER	RR	HVDM	HVDM	26 06 25

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	W. BOTES		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25
DESIGNED	STANDARD DETAIL		18 07 25
CHECKED	H. VAN DER MERWE		18 07 25

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

NAME	H. VAN DER MERWE	DATE
SIGNATURE		18 07 25
REG. NUMBER	201270225	
TITLE	Pr. TechENG	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

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

NAME	DATE
SIGNATURE	
REG. NUMBER	
SCALE	0.055555556

TRANSNET

Transnet National Ports Authority

TRANSNET SOC Ltd : REG.No. 1990/000900/30
NEWARK ROAD
RICHARDS BAY
TEL: 035 788 0067
PO BOX 181, RICHARDS BAY 3900, SOUTH AFIRCA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE
(REPAIRS TO PORT ROADS)
ROAD DRAINAGE
CHANNEL DETAILS

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E2
PROJECT DRG. NO.		REV.
1006614-DRG-14-UR-CC-D001		T2