

TYPICAL DETAIL FOR CONCRETE BLOCK RETAINING WALL SCALE 1: 20

BACKFILLING DETAIL AS PER SUPPLIERS DESIGN GUIDELINES OR AS PER PROJECT SPECIFIC DESIGN

DESIGN AND SUPPLY CONCRETE BLOCK RETAINING WALLS NOTES AND SPECIFICATIONS:

- 1. ALLOWED CONCRETE BLOCKS AND BASE BLOCKS :
- MVA BRICKS: Lok Block - TECHNICRETE: Enviro-Wall
- INFRASET: RidgeBlok
- 2. DIFFERENT ANGLES FOR BASE BLOCKS RANGING FROM 60° 80°CAN BE USED. TO BE CONFIRMED WITH DESIGN.
- 3. RETAINING WALL TO BE CONSTRUCTED AS PER SUPPLIERS' DESIGN GUIDELINES OR AS PER PROJECT SPECIFIC DESIGN IF REQUIRED.
- 4. ADEQUATE DRAINAGE MUST BE PROVIDED AS PER PROJECT SPECIFIC DESIGN.
- 5. GEOFABRICK TO BE INSTALLED AS PER PROJECT SPECIFIC DESIGN.

NOTES AND SPECIFICATIONS

1 GENERAL

- 1.1 ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST
- RELEVANT SANS REQUIREMENTS. 1.2 ALL DIMENSIONS ARE IN MILLIMETERS.
- (UNLESS OTHERWISE SPECIFIED) 1.3 DO NOT SCALE FROM THESE DRÁWINGS.
- 1.4 ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
- 1.5 THE FOUNDATIION DETAILS TO BE SITE SPECIFIC AND DESIGNED BY THE ENGINEER.
- 2.REINFORCED CONCRETE
- 2.1 REINFORCED CONCRETE WORK SHALL BE IN STRICT ACCORDANCE WITH SECTIONS 702, 703 AND 704 OF THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.
- 2.2 CONCRETE COVER SHALL BE AS INDICATED ON THE DRAWINGS OR SPECIFICATIONS.
- 3. STRUCTURAL STEELWORK
- 3.1 STRUCTURAL STEELWORK SHALL BE IN STRICT ACCORDANCE WITH SECTION 809 OF THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.
- 3.2 STRUCTURAL STEEL SHALL BE GRADE 300W UNLESS OTHERWISE INDICATED OR SPECIFIED. 3.3 COLD FORMED SECTIONS SHALL BE MADE FROM
- COMMERCIAL QUALITY STEEL UNLESS OTHERWISE SPECIFIED.
- 3.4 HOLDING DOWN BOLTS SHALL BE OF THE GRADE SPECIFIED ON THE DRAWINGS.
- 3.5 PAINTING OF STRUCTURAL STEELWORK SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF SECTION 806 OF THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, 3rd EDITION, 2005.
- 3.6 ALL STRUCTURAL STEEL, INCLUDING TUBES, SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF SABS 763 FOR TYPE A1 OR B1 ARTICLES AS APPLICABLE (OR LATEST).
- 4. CONCRETE BOLLARDS
- 4.1 CONCRETE TYPE CLASS 30/19.
- 4.2. CONCRETE FINISH AS SPECIFIED ON DRAWINGS. MUST BE FIXED IN THE RECESS TO ENHANCE VISIBILITY.
- 4.3. STEEL REINFORCEMENT TO BE MIN. 3Y10 BARS FOR 150mm AND 4Y10 BARS FOR 250mm WITH R10 LINKS AT 150mm PITCH. 4.4. 30mm CONCRETE COVER TO REINFORCEMENT.
- 4.5. UNLESS OTHERWISE SPECIFIED, REFLECTIVE TAPE
- 4.6. CONCRETE BACKFILL AROUND BOLLARD SPACE TO BE DETERMINED BY PAVING PROFILE MIN. 400mm X 400mm FOR 250mm Ø BOLLARDS.
- 4.7. ALL BACKFILLED CONCRETE FINISHES MUST BE WORK OF TO CLASS U2 SURFACE FINISH. ALL CONCRETE EDGES TO BE WORK OFF WITH A NOSING TOOL.

NR. DATE APPROVED	AMENDM	_	RIPTION	PAR.
DESIGNED	C	DRAWN		
J. CRONJE Pr Tech Eng.	5	S. AUDIE		
DESIGN CHECKED BY S. NAIDOO Pr Tech Eng.	1		HNICAL INFORMAT EMENT ALMERS	ION
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CITY O	F T	SHW	ANE	
ROADS AND TF	RANSF	PORT DE	PARTN	IENT
GROUP HEAD Mr Letlonkane P. (Pheko)				IONAL HEAD n K Tlhagale
P.O. BOX 1409 PRETORIA	CITY OF TSHWA	NE		O. BOX 1409 PRETORIA
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TRANSPORT INFRASTRUCTURE DESIGN AND CONSTRUCTION DIVISIONAL HEAD Mr K Tihagale (Marven)		TRANSPORTATION DIVISIONAL HEAD Mr Swanepoel (Ma		
SIGNATURE:		SIGNATURE:		
DATE:		DATE:		
DRAWING APPROVED BY GROUP HEAD Mr Letlonkane P. (Pheko)				
SIGNATURE:		DATE:		
TYPICAL STANDARD				
DETAILS				
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TYPICAL DET		R CONCR		OCK
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DATE : 14 MARCH 2021	SCALE :		ORIGINAL PAPER	SIZE:
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