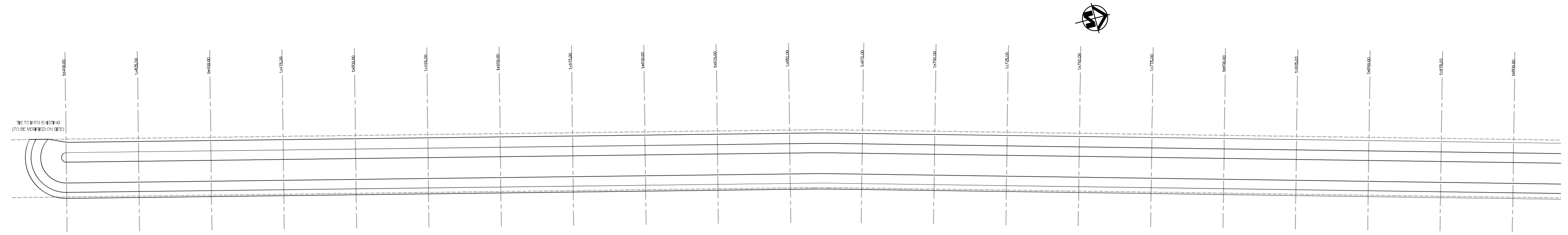

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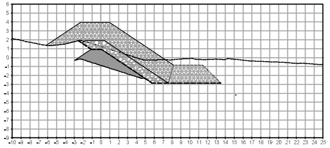

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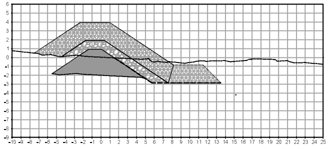

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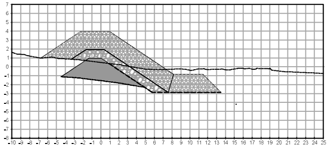

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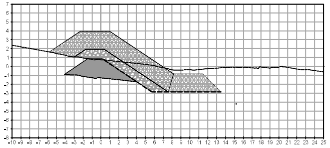

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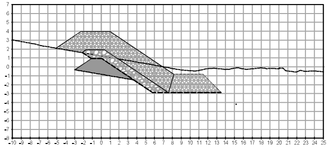

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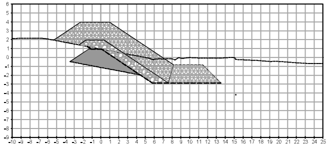

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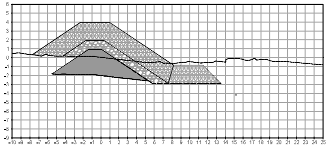

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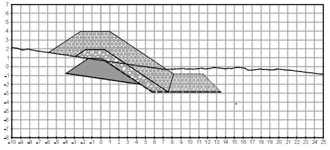

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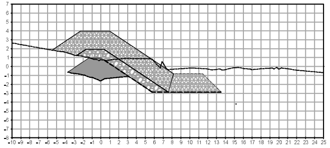

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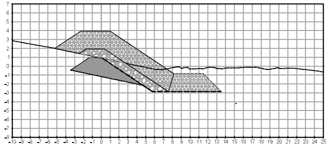

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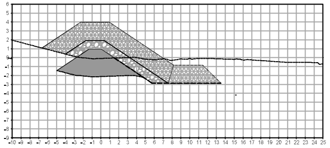

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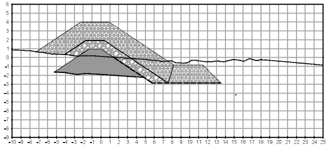

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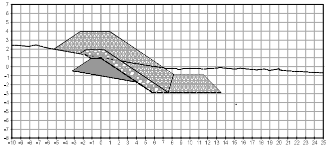

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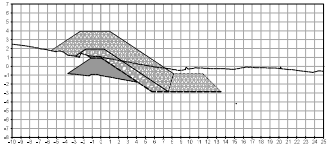

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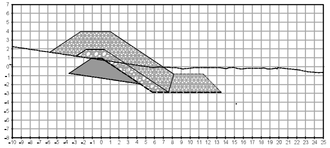

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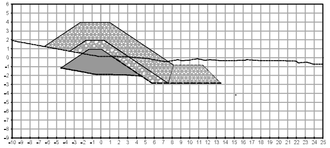

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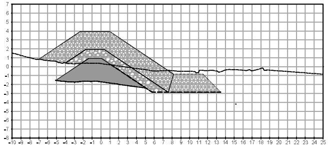

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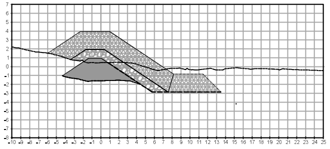

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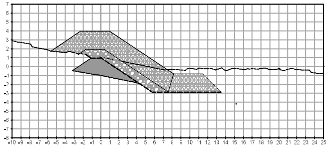

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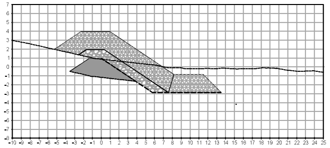

ARMOUR LAYER	
ARMOUR	3 ton DOLOS
SLOPE	1 : 1.5
PACKING DENSITY COEFFICIENT	0.83
LAYER THICKNESS	2 030 mm
CREST LEVEL	3.964m MSL
TOE LEVEL	-0.836m MSL
CREST WIDTH	3 280 mm
TOE WIDTH	3 280 mm
UNDERLAYER	
GRADING	100 - 500 kg
LAYER THICKNESS	1 000 mm
FILTER LAYER	
GRADING	10 - 50 kg
LAYER THICKNESS	465 mm

LEGEND

■	FILTER LAYER TO FILL VOIDS
▨	UNDERLAYER (M_{50} = 300kg)
▢	ARMOUR ROCK (M_{50} = 3 000kg)
▩	EXISTING 3 ton DOLOS
▩	NEW 3 ton DOLOS
— — —	GEOTEXTILE (GRADE A20 BIDIM)
- - - -	EXISTING GROUND PROFILE
——	NEW PROFILE

General Notes

The contractor shall verify all site conditions, dimensions and levels on the site and notify the NEC supervisor of any variations before construction.

Dimensions are in millimetres except on chainages and cross-sections, which are given metres.

Dimensions must not be scaled or assumed. After notification, discrepancies or missing dimensions will be corrected in writing by the engineer.

All levels are with reference to Mean Sea Level (MSL) which is 0.836 above Chart Datum (CD).

Total no. of dolos available at stacking yard is 718. Concrete strength and dimensions of dolos to be verified during construction.

Amour rock to conform to EN 13383.

Concrete (where applicable the following shall apply)

All concrete work shall conform with the latest amended issue of :
SANS 2001 : Standard Specification for concrete works and
SANS 10100 : The structural use of concrete.

New dolos to be cast with concrete with a 40MPa 28-day strength

A set of six cubes must be made for every fifty cubic meter (or portion thereof) of concrete poured on a specific day, 3 of the cubes must be tested at seven days, and the balance must be available for testing at 28 days.
The test results are to be submitted to the engineers immediately and should any problems be anticipated no shuttering is to be stripped until further notice from the engineer.

All concrete shall be vibrated according to specification. All concrete must be cured continuously for seven days after pouring and effectively protected against dehydration.

Coordinate System Details	
Ellipsoid	WGS 84
Datum	Hartebeesthoek 94
Projection	Gauss Conform Lo25°

DRAWING NO.	DRAWING DESCRIPTION

REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
0A	ISSUED FOR TENDER	PM	ML	ML	08-05-2026

REVISIONS

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CONTRACTOR / CONSULTANT			
TITLE	NAME	SIGN	DATE
DRAWN	.		. . .
CHECKED	.		. . .
DESIGNED	.		. . .
CHECKED	.		. . .
PR.ENG. / PR.TECH./PR. ARCH			
NAME	XX		DATE
SIGNATURE			. . .
REG. NUMBER	XXXXX		
TITLE			
SCALE :	XX		

TRANSNET NATIONAL PORTS AUTHORITY			
TITLE	NAME	SIGN	DATE
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CHECKED	ML		24 02 26
DESIGNED	PM		17 02 26
CHECKED	ML		17 02 26
PR.ENG. / PR.TECH./PR. ARCH			
NAME	M LETSIE		DATE
SIGNATURE			08 05 26
REG. NUMBER	2012/0051		
TITLE			
PAPER SIZE :			A0

TRANSNET DRG. NO. .
REV. .

Transnet National Ports Authority

TRANSNET SOC Ltd : REG No. 1990/000900/30

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6001

TEL: 041 507 1760

TRANSNET

PORT OF PORT ELIZABETH

PORT ELIZABETH N2 FORESHORE REHABILITATION
SHORT-TERM SOLUTION

NEW SEAWALL SECTION 1 OF 2

PROJECT DRG. NO. XPE.E.0030-001-S-SE-0003-01
REV. 0A