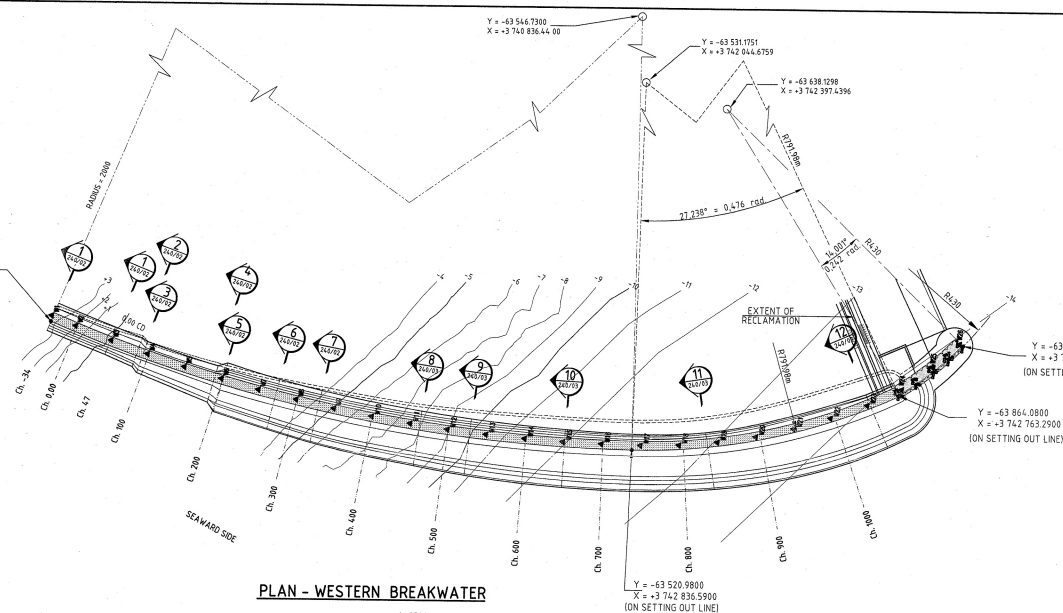




Y = -62 768 5613
X = +3 742 679 1870
(ON SETTING OUT LINE)



NOTE:
SET-OUT LINE
SEAWARD SIDE
OF CAPPING

SET-OUT
LINE

PRIMARY
WAVE WALL

BREAKWATER CAP

SAND BYPASS
INTAKE DUCT

TYPICAL SECTION LOOKING WESTWARDS
1: 100

ORIGINAL SCALE
1: 2500
ON ORIGINAL (mm)

APPROVAL

TASKLEADER
SUB-TASK LEADER
CLIENT

DETAILS

DRAWN
DESIGNED
DRAWING CHECKED
DESIGN CHECKED

DATE
DATE
DATE
DATE

REVISIONS

NO. DATE DESCRIPTION

01 ISSUED FOR TENDER

02 LAYOUT CONFIGURATION CHANGE

03 ISSUED FOR CONSTRUCTION

04 SECTION 2-1 CHAINAGE REVISED AND

SECTION 2-2 ELEVATION REVISED

05 CHANGE FROM ROCK TO DOLOS REVISED

06 AS-BUILT

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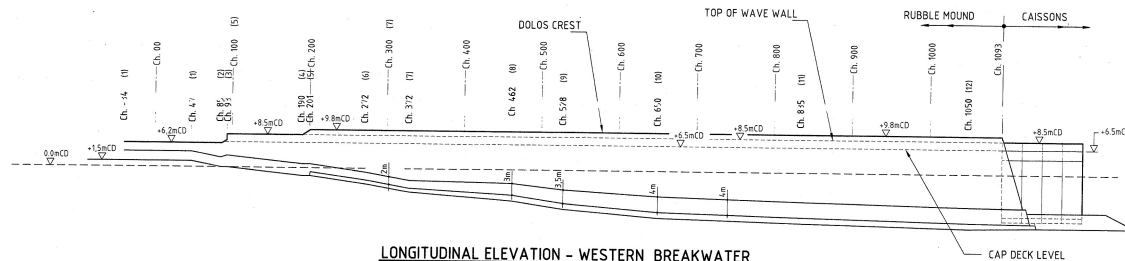
47

48

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50

COORDINATE LIST - SURVEY STUDS			
POINT	Y-COORD	X-COORD	Z-COORD
W1	-62771.051	3742673.734	6.112
W2	-62862.248	3742688.543	6.114
W3	-62848.850	3742724.617	6.123
W4	-62895.301	3742714.560	6.583
W5	-62843.456	3742737.280	6.577
W6	-62991.187	3742751.781	6.536
W7	-63030.362	3742658.148	6.613
W8	-63067.914	3742757.263	6.604
W9	-63136.200	3742788.135	6.603
W10	-63165.759	3742797.819	6.618
W11	-63235.048	3742806.230	6.583
W12	-63263.286	3742813.563	6.571
W13	-63330.845	3742819.413	6.566
W14	-63382.629	3742833.980	6.564
W15	-63431.865	3742827.439	6.533
W16	-63481.682	3742829.671	6.582
W17	-63531.436	3742830.812	6.561
W18	-63581.133	3742828.927	6.576
W19	-63630.544	3742825.487	6.561
W20	-63679.540	3742817.895	6.544
W21	-63727.827	3742806.958	6.530
W22	-63775.487	3742792.825	6.519
W23	-63821.854	3742779.570	6.475
W24	-63868.263	3742754.937	6.538
W25	-63908.419	3742726.064	6.507
W26	-63930.910	3742698.464	6.480
C1	-63857.739	3742758.033	6.405
C2	-63859.671	3742758.848	6.485
C3	-63864.002	3742761.174	6.533
C4	-63861.327	3742759.586	6.539
C5	-63879.874	3742741.912	6.475
C6	-63881.501	3742740.728	6.486
C7	-63885.673	3742746.775	6.530
C8	-63884.007	3742747.973	6.530
C9	-63890.379	3742748.513	6.431
C10	-63901.993	3742725.034	6.458
C11	-63908.704	3742735.683	6.588
C12	-63905.114	3742731.986	6.554
C13	-63920.689	3742709.972	6.486
C14	-63922.016	3742708.605	6.483
C15	-63926.618	3742713.929	6.571
C16	-63925.086	3742714.712	6.561
C17	-63936.315	3742691.136	6.421
C18	-63947.615	3742687.657	6.498



Port of Ngqura
Port Engineer
Drawing number
NH 72 V 0300
Sheet 001 of 22
NH72V0300-001-22

PROJECT

COEGA PORT

MARITIME GROUP

TASK

5000 C

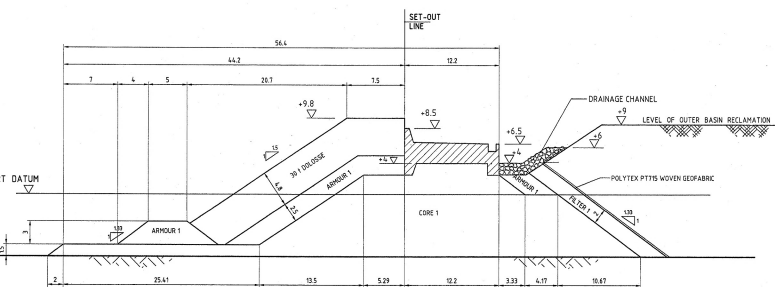
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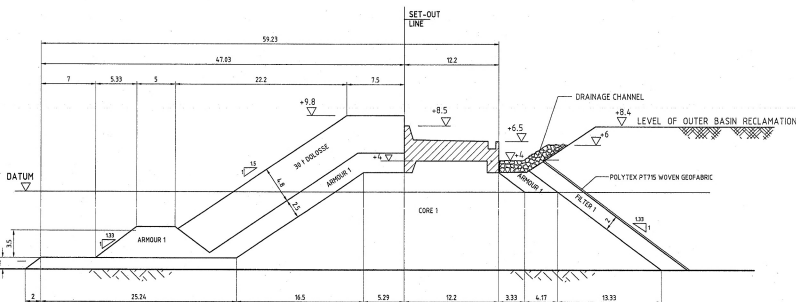
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DWG No. 256/C9/240/01 REV. ZZ

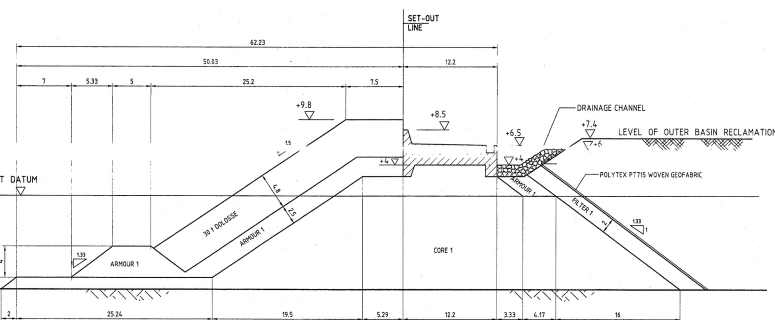
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ch 462
SECTION 8
1:250

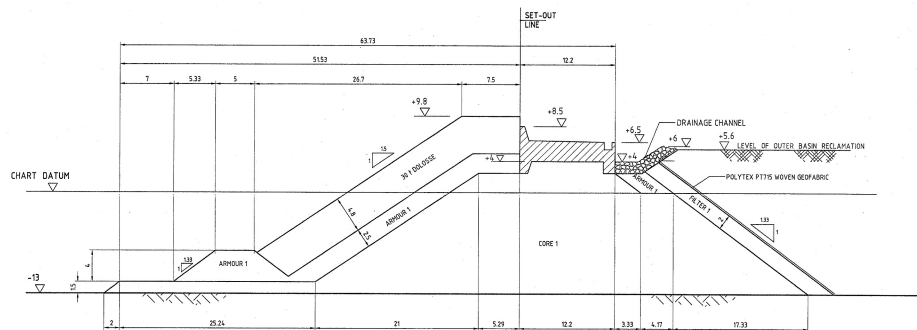


ch 528
SECTION 9
1:250

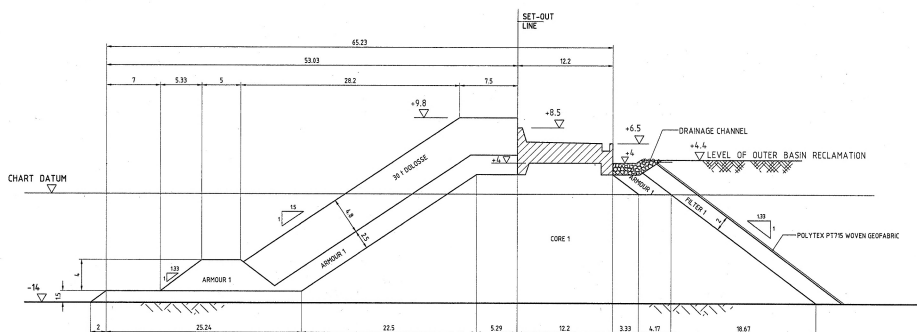


ch 650
SECTION 10
1:250

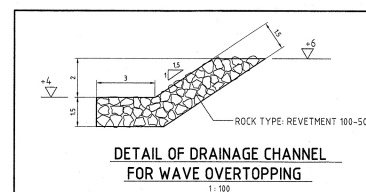
NOTE:
SLOPE DIMENSIONS
ALL SLOPES SHOWN AS 1:1.33 REFLECT THE NATURAL ANGLE OF REPOSE OF THE PLACED ROCK. HORIZONTAL SLOPE DIMENSIONS IN THESE CASES ARE THEREFORE APPROXIMATE.



ch 835
SECTION 11
1:250



ch 1050
SECTION 12
1:250



DETAIL OF DRAINAGE CHANNEL
FOR WAVE OVERTOPPING
1:100

FILTER FABRIC
PROPERTIES OF FILTER TO COMPLY WITH CLAUSE 83.4 OF SPECIFICATION

ROCK GRADINGS
REVELMENT 100-500: 100 kg - 500 kg
FILTER 1: 0.1 kg - 20 kg
CORE 1: 5 kg - 3000 kg
ARMOUR 1: 3 tonnes - 6 tonnes
GRADING AND PROPERTIES OF ROCK TO BE IN ACCORDANCE WITH SPECIFICATION PW

CAPPING CONCRETE
CAPPING SLAB: GRADE 35/40
WAVE WALL: GRADE 40/19
CONCRETE TO COMPLY WITH THE REQUIREMENTS OF SPECIFICATION PSG

DOLOSSE
CONCRETE FOR DOLOSSE TO COMPLY WITH THE REQUIREMENTS OF SPECIFICATION PX
DOLOSSE PLACEMENT DENSITY SEAWARD FACE: 0.1671 UNITS/m²

CONSTRUCTION SEQUENCE:
FILTER ROCK AND FABRIC TO BE CONSTRUCTED CONCURRENTLY WITH OUTER BASIN RECLAMATION FOLLOWED BY CONSTRUCTION OF DRAINAGE CHANNEL

ORIGINAL SCALE: 0 10 20 30 40
1 : 250 ON ORIGINAL (mm)

APPROVAL

TASKLEADER	SIGNED	DATE
SUB-TASK LEADER	SIGNED	DATE
CLIENT	SIGNED	DATE

DETAILS

DRAWN	CDA / PS
DESIGNED	QDR / AH
DRAWING CHECKED	SIGNED DATE
DESIGN CHECKED	SIGNED DATE

REVISIONS

NO.	DATE	DESCRIPTION
00		ISSUED FOR TENDER
01		ISSUED FOR CONSTRUCTION
02		DIMENSION REVISED ON SECTION "9" & NOTE ADDED
ZZ		AS-BUILT

NOTE:
ALL LEVELS ARE RELATIVE TO CHART DATUM (CHART DATUM: LAND LEVELING DATUM-1926m)

SUB-TASK CONSULTANTS
PRESTEDGE RETIEF DREINER WIJNBORG
MARINA CENTRE
WEST QUAY ROAD
VICTORIA & ALFRED WATERFRONT
CAPE TOWN
8001
TEL: (021) 418 3830 FAX: (021) 418 3834
EMAIL: th@prow.co.za

LEAD CONSULTANTS
PRESTEDGE RETIEF DREINER WIJNBORG
CONSULTING COASTAL, OCEAN AND ENVIRONMENTAL ENGINEERS

CLIENT
National Ports Authority of South Africa

PROJECT
COEGA PORT MARITIME GROUP

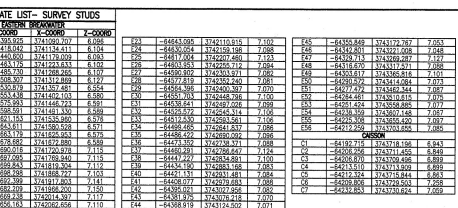
TASK
5000 C BREAKWATERS

DRAWING TITLE
WESTERN BREAKWATER SECTIONS
SHEET 2 of 2

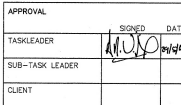
DWG NO: 256/C9/240/03 REV. ZZ

Port of Ngqura
Port Engineer
Drawing number:
NH 72 V 0301
Sheet: 002 Revision: ZZ
NH72V0301-002-ZZ

11472/0301-002-ZZ



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x = 1:2500
y = 1:500
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DRAWN	CDA / PS	
DESIGNED	GDR/AH	
	SIGNED	DATE
DRAWING CHECKED	<i>24</i>	27-5-0
DESIGN CHECKED		

SUB-TASK CONSULTANTS
PRESTEDGE RETIEF DRESSNER WINBER
MARINA CENTRE
WEST QUAY ROAD
VICTORIA & ALFRED WATERFRONT
CAPE TOWN
8001
TEL: (021) 418 3830 FAX: (021) 418 3834
EMAIL: info@prdw.co.za

LEAD CONSULTANTS
PRESTEDGE RETIEF DRESSNER WINBER

CONSULTING COASTAL, OCEAN
AND ENVIRONMENTAL ENGINEERS



TASK	5000 C BREAKWATERS
DRAWING TITLE	EASTERN BREAKWATER
DWG No.	55 / 00 / 010 / 01 REV. 7