

DUNGENESS BREAKWATER

Drawing Number	DRAWING TITLE
· WT-ZZ-XX-DR-C-00	COVER SHEET
· WT-ZZ-XX-DR-C-01	NOTES AND SPECIFICATIONS
· WT-ZZ-XX-DR-C-02	SITE PLAN
· WT-ZZ-XX-DR-C-03	BREAKWATER CROSS SECTIONS
· WT-ZZ-XX-DR-C-04	BREAKWATER LONG SECTION
· WT-ZZ-XX-DR-C-05	SEAWALL CROSS SECTION
· WT-ZZ-XX-DR-C-06	BREAKWATER LAND PLAN



REV	DATE	DESCRIPTION	BY	CHK	APP
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REVISIONS

PROJECT

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CLIENT



BIM REF.

TITLE

COVER PAGE



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WATER TECHNOLOGY

WATER, COASTAL & ENVIRONMENTAL CONSULTANTS

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DUNGENESS BREAKWATER

GENERAL NOTES

- 1. DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 2. DO NOT SCALE FROM DRAWINGS.
- 3. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH WORK.
- 4. DATUM FOR DRAWING AND DESIGN LEVELS IS AHD. TIDAL PLANES FOR DESIGN ARE AS FOLLOWS, AND ARE BASED ON LUCINDA.

Tide	Tide Level (m LAT)	Tidal Level (m AHD)
HAT	3.96	2.07
MHWS	2.98	1.09
MHWN	2.18	0.29
MSL	1.89	0
MLWN	1.6	-0.29
MLWS	0.8	-1.09
LAT	0	-1.89

- 5. THE CONTACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE AND WORK UNTIL ITS COMPLETION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVER-STRESSED BY EXCESSIVE LOADING. TEMPORARY WORKS OR SUPPORTS MAY BE REQUIRED AND AGREED SUBJECT TO APPROVAL BY THE SUPERINTENDENT.
- 6. THE CONTRACTOR SHALL MANAGE AND TAKE RESPONSIBILITY OF RISKS IDENTIFIED AS PART OF THE SAFETY IN DESIGN ASSESSMENT.
- 7. CONTRACTOR IS TO COMPLETE A FULL TOPOGRAPHIC AND HYDROGRAPHIC PRE-CONSTRUCTION WORKS SURVEY OF THE SITE AND PROVIDE THIS TO THE SUPERINTENDENT ADVISING OF ANY DISCREPENCIES (IF APPLICABLE) WITH THE PROJECT DRAWINGS.

EROSION AND SEDIMENT CONTROL NOTES

- 1. THE CONTRACTOR SHALL MAINTAIN APPROPRIATE TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION TO CONTROL STORMWATER RUNOFF, IN ACCORDANCE WITH THE EROSION CONTROL AND SEDIMENT CONTROL PLAN.

CONTRUCTION NOTES

- 1. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION METHOD STATEMENT CONFORMING TO THE SPECIFICATION FOR THE WRITTEN APPROVAL BY THE SUPERINTENDENT'S REPRESENTATIVE. THIS IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2. THE ROCKS MUST BE PLACED TO ENSURE FIRM BEDDING AND MAXIMUM STABILITY WITHIN THE STRUCTURE .
- 3. THE WORKS SHALL BE CARRIED OUT TO THE LINES AND LEVELS INDICATED ON THE DRAWINGS. ANY PLACEMENT OF MATERIAL CARRIED OUT BEYOND THE LIMITS SET IN THE DRAWINGS IS NOT PERMITTED.
- 4. ROCKS SHALL BE INDIVIDUALLY PLACED, NOT TIPPED INTO POITION, BUT SHALL BE PLACED PIECE BY PIECE INTO THE STRUCTURE TO ACHIEVE A MINIMUM 'THREE-POINT SUPPORT' WITHIN THE SAME LEVEL AND BE STABLE TO THE LINES AND LEVELS SHOWN ON THE DRAWINGS. ROCKS SHALL BE TIGHTLY PACKED TOGETHER AND SHALL NOT BE PLACED SO THAT THEY CAN ROCK OR OBTAIN THEIR STABILITY ON A PLANE BY FRICTIONAL RESISTANCE ALONE PRIOR TO PLACING FURTHER ROCKS.
- 5. SLOPES SHOWN SHALL BE CONSIDERED MINIMUMS REQUIRED FOR DESIGN.
- 6. ANY VOID BELOW THE FINISHED PROFILE LEVEL AS DEFINED IN THE DRAWINGS IN EXCESS OF D15 SIZE SHALL BE FILLED WITH AN APPROPRIATE ROCK OR ROCKS.
- 7. MINIMUM ROCK DRY DENSITY 2,650KG/M3.
- 8. PROFILES ERODED/DAMAGED BY WAVE, TIDAL AND CURRENT ACTION OR OTHER CAUSE SHALL BE MADE GOOD BEFORE PLACING NEW MATERIAL.
- 9. THE ROCK SUPPLY ACCEPTANCE SHALLBE GOVERNED BY MASS WHEREAS GEOMETRY (DIAMETER)SHALL BE USED AS A GUIDE ONLY.
- 10. THE CONTRACTOR SHALL MAINTAIN APPROPRIATE TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION TO CONTROL STORMWATER RUNOFF, IN ACCORDANCE WITH THE EROSION CONTROL AND SEDIMENT CONTROL PLAN.
- 11. ROCK ARMOUR AND CORE REQUIREMENTS:

Rock Gradation Table										
	kg					m				
	Wmin	W10	W50	W90	Wmax	Dmin	D10	D50	D90	Dmax
Rock Armour Roundhead	1000	1800	3000	4400	5500	0.87	1.05	1.25	1.42	1.53
Rock Armour Trunk	700	1100	2000	3000	4000	0.77	0.89	1.09	1.25	1.37
Core	20	40	92	180	240	0.24	0.3	0.39	0.49	0.54
Seawall Armour	700	1100	2000	3000	4000	0.77	0.89	1.09	1.25	1.37
Seawall Underlayer	70	110	200	300	400	0.36	0.41	0.51	0.58	0.64

REV

DATE

DESCRIPTION

BY

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NOTES



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AT A3

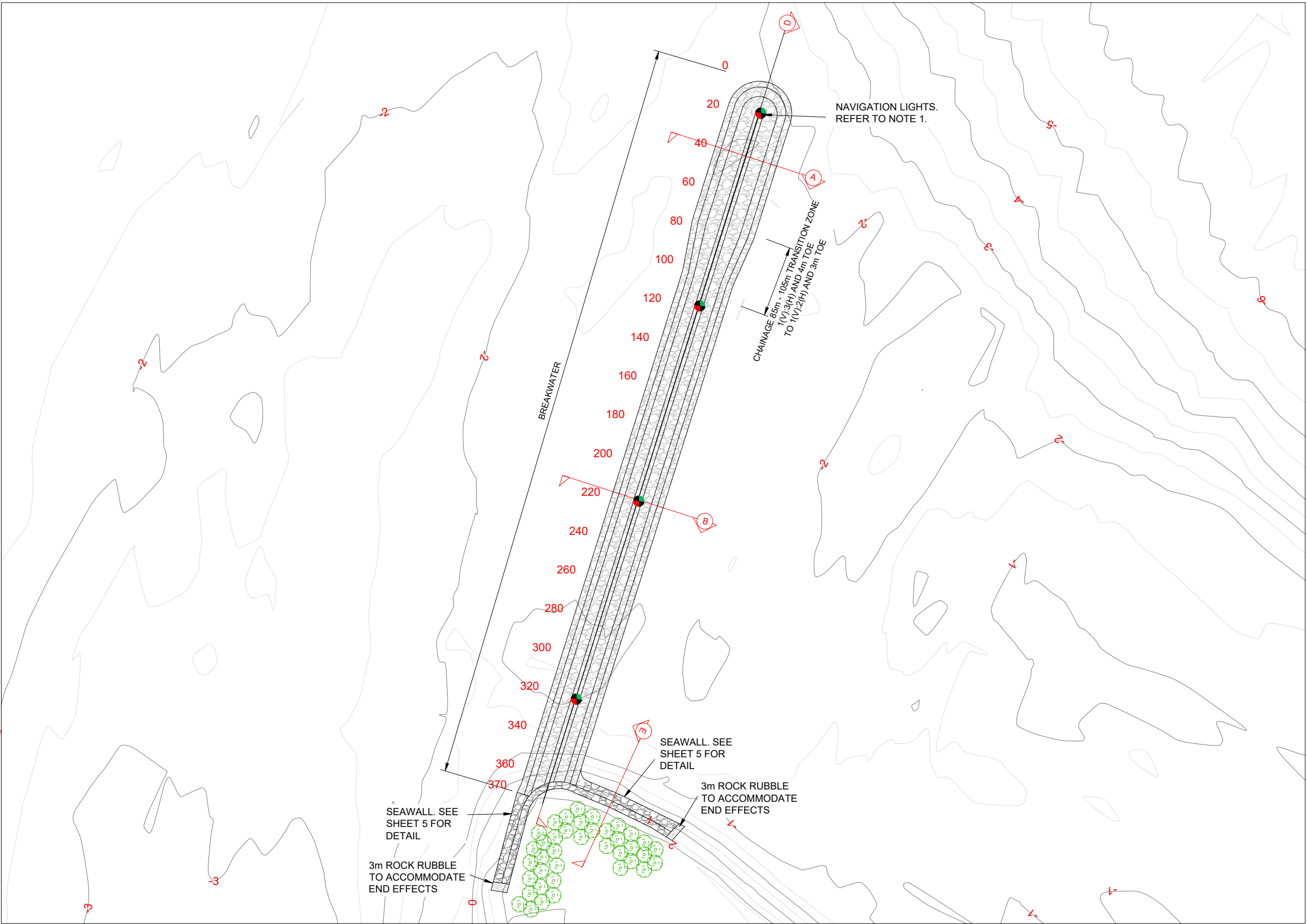
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NOTE:
1. NAVIGATION LIGHTS TO BE INSTALLED ON THE BREAKWATER CREST EVERY 100m FLY 2.5s (SEALITE SL75), SYNCHRONISED TO FLASH TOGETHER



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PLAN VIEW



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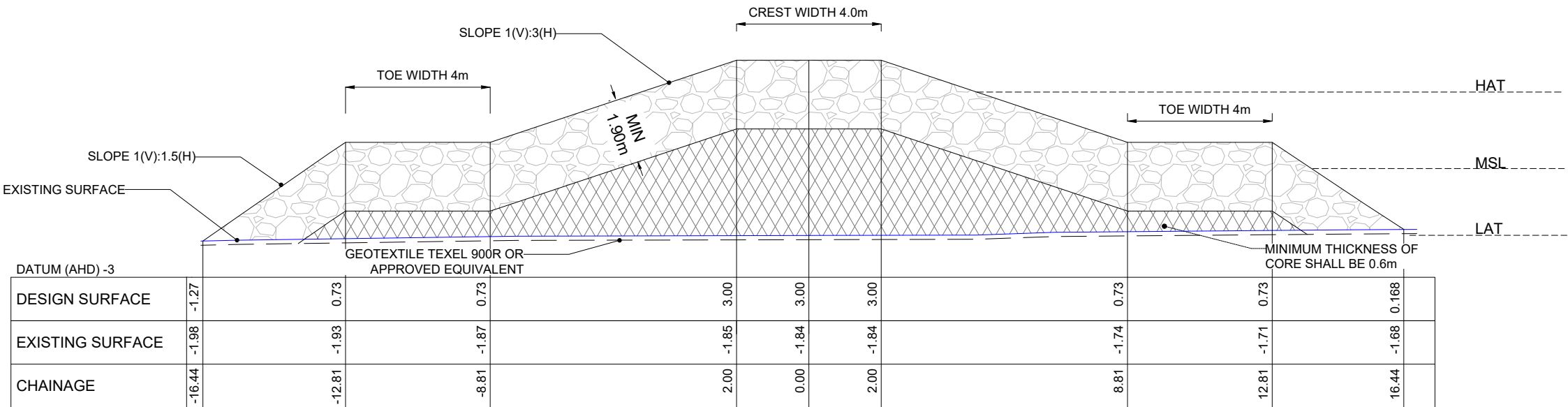
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SUITABILITY

REVISION

ROCK ARMOUR ROUND HEAD



SECTION A

ROCK ARMOUR LEGEND

ROCK ARMOUR ROUND HEAD



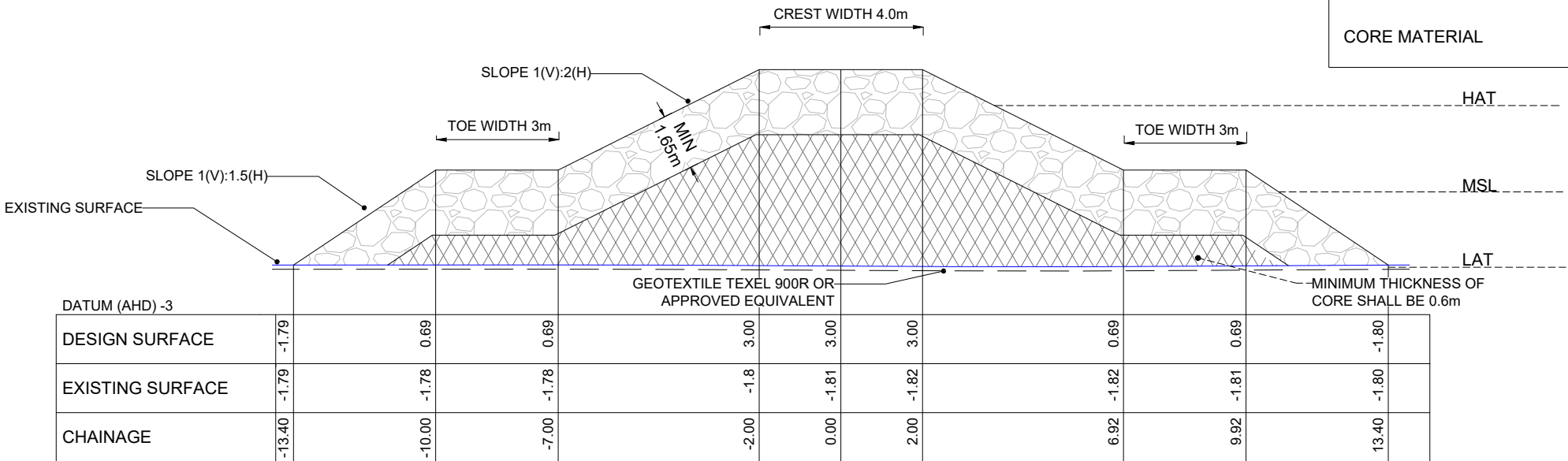
ROCK ARMOUR TRUNK



CORE MATERIAL

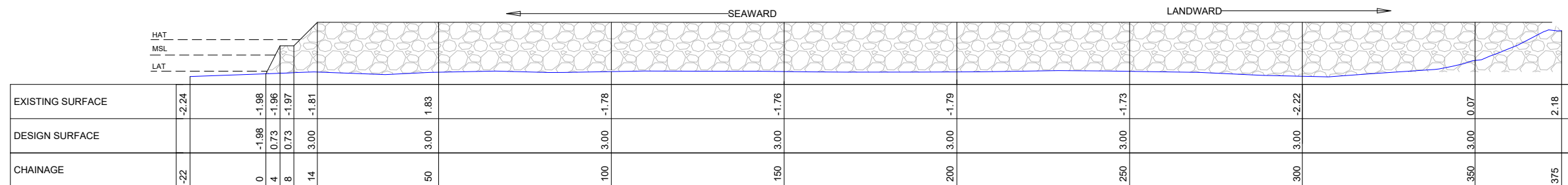


ROCK ARMOUR TRUNK



SECTION B

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BREAKWALL CROSS SECTIONS					
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SECTION D

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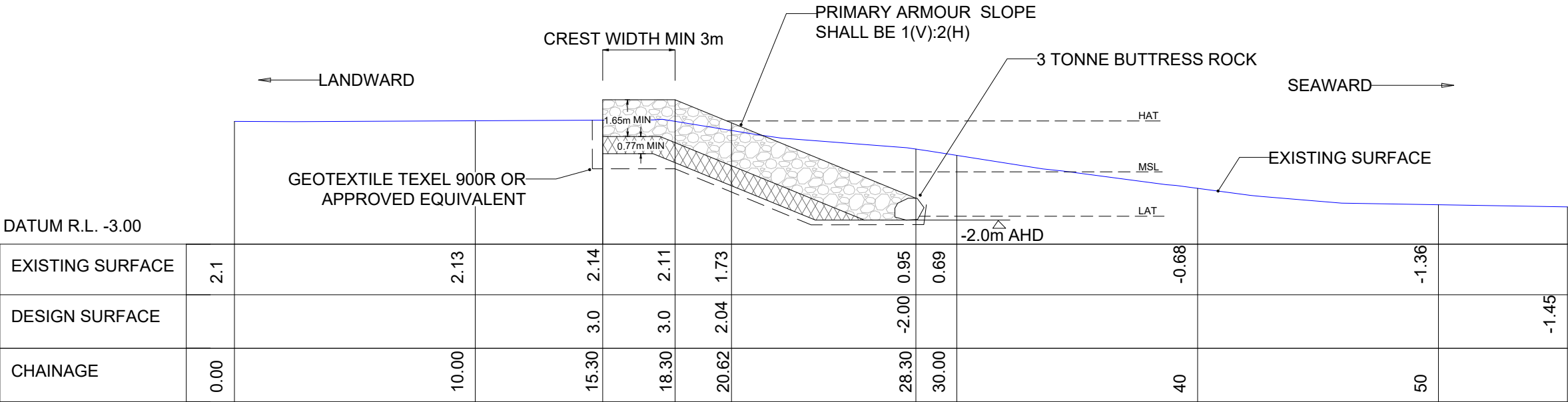
BREAKWALL LONG SECTION



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SECTION E

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SEAWALL CROSS SECTION



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LAND PLAN



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