

**GENERAL NOTES AND DESIGN CRITERIA:**

**1.0 WATER DEPTHS, DATUM, NAVIGATION CHANNEL AND DIMENSIONS**

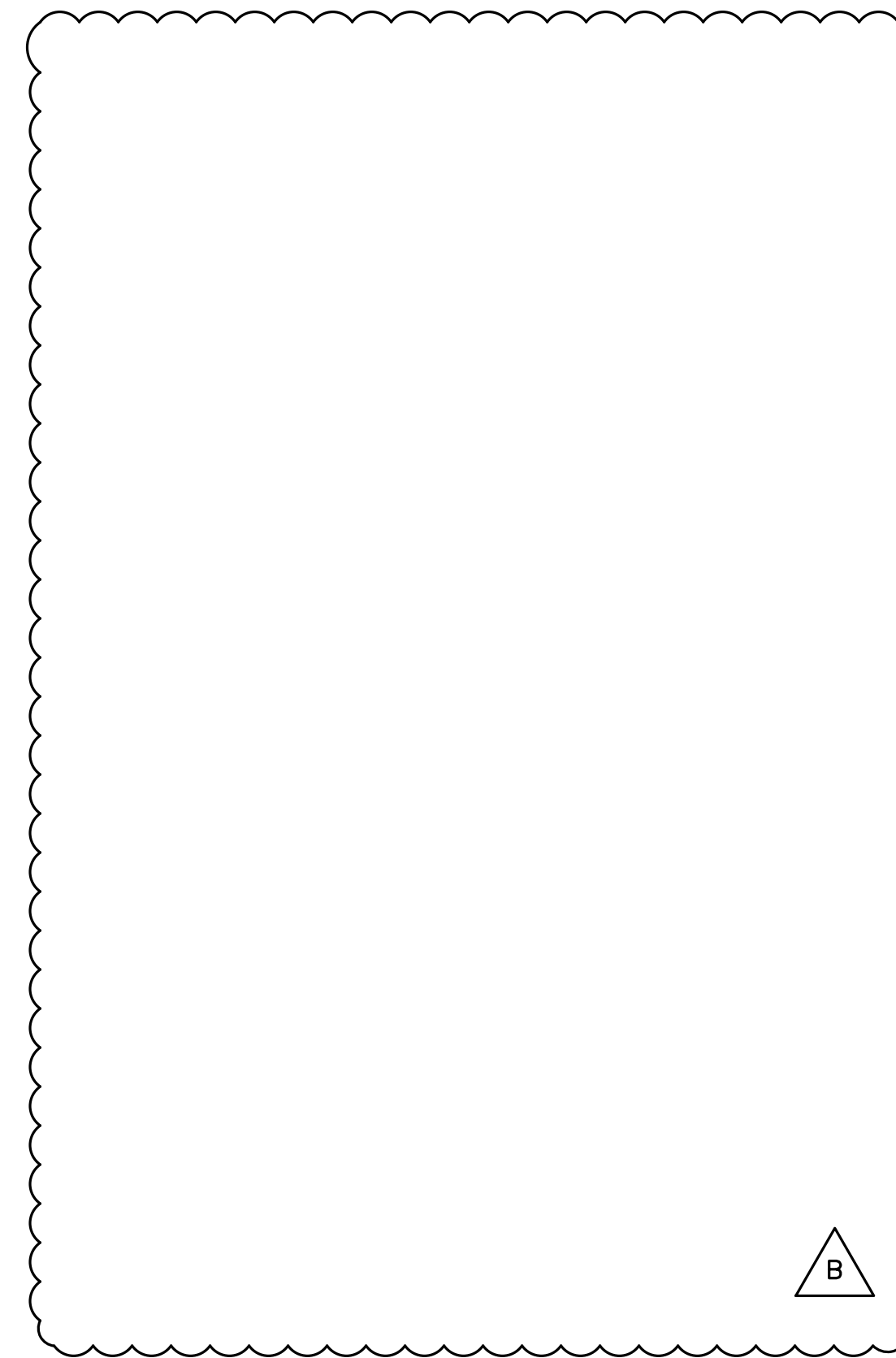
- 1.1 WATER DEPTHS ARE TO CHART DATUM (CD) AS PER THE FOLLOWING FIGURES PROVIDED BY KEYSTONE ENVIRONMENTAL IN AUTOCAD FORMAT ON JULY 26, 2022:
  - 1.1.1 FIGURE 6, HABITAT OFFSETTING PLAN, SHADY ISLAND, REVISION NO. 1, DATED DEC. 2021.
  - 1.1.2 FIGURE 7, HABITAT OFFSETTING PLAN, SHADY ISLAND, REVISION NO. 0, DATED JUNE 2021.
- 1.2 THE STEVESTON CANNERY CHANNEL LINES ARE PROVIDED IN FIGURE 6 REFERENCED ABOVE.
- 1.3 CHART DATUM (CD) AT THIS LOCATION IS 2.25m BELOW GEODETIC DATUM.
- 1.4 ALL ELEVATIONS ARE IN METRES (m) TO CD.
- 1.5 LAYER THICKNESSES ARE IN MILLIMETERS (mm).
- 1.6 HORIZONTAL DATUM: UTM NAD83, ZONE 10 NORTH.

**2.0 WINDS AND WAVES**

- 2.1 WINDS FOR GENERATING WAVES ARE FROM THE NATIONAL BUILDING CODE OF CANADA (NBCC), LATEST EDITION.
- 2.2 THE 1 IN 50 YEAR HOURLY WIND SPEED IS 26.4m/s.
- 2.3 THE 1 IN 50 YEAR WAVE HEIGHT IS 0.7m AS PER THE SHORE PROTECTION MANUAL, US ARMY CORPS OF ENGINEERS, 1984 EDITION.

**3.0 WATER LEVELS**

- 3.1 HIGHER HIGH WATER LEVEL, LARGE TIDE (HHWL, LT) IS 4.3m CD, BASED ON POINT ATKINSON AND THE NORMAL FRESHET RIVER FLOW IN JUNE OF 8,500m<sup>3</sup>/s AT HOPE, BC.
- 3.2 MEAN WATER LEVEL (MWL) IS ABOUT 2.45m CD, BASED ON POINT ATKINSON AND NORMAL RIVER FLOWS OF 2,800m<sup>3</sup>/s TO 5,700m<sup>3</sup>/s AT HOPE, BC FOR SEVEN MONTHS OF APRIL, MAY AND JULY TO NOVEMBER.
- 3.3 LOWER LOW WATER LEVEL, LARGE TIDE (LLWL, LT) IS -0.1m CD, BASED ON POINT ATKINSON AND NORMAL LOW RIVER FLOW OF 700m<sup>3</sup>/s AT HOPE, BC FOR FOUR MONTHS OF DECEMBER TO MARCH.
- 3.4 A POSITIVE STORM SURGE OF 0.6m IS BASED ON THE DIFFERENCE BETWEEN THE RECORDED EXTREME HIGH WATER LEVEL (EHWL) AND HHWL, LT AT POINT ATKINSON.
- 3.5 A NEGATIVE STORM SURGE OF -0.5m IS BASED ON THE DIFFERENCE BETWEEN THE RECORDED EXTREME LOW WATER LEVEL (ELWL) AND LLWL, LT AT POINT ATKINSON.
- 3.6 THE ESTIMATED YEAR 2100 SEA LEVEL RISE IS 1.0m.



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VOLUMES AND MATERIAL LIST					
LOCATION	TOTAL EXCAVATION (CUBIC METRES)	TOTAL GROWING MEDIUM (CUBIC METRES)	TOTAL FILTER ROCK (CUBIC METRES)	TOTAL RIPRAP (CUBIC METRES)	TOTAL FILTER CLOTH (SQUARE METRES)
HABITAT BENCH	660	4075	1600	1280	720

VOLUMES CALCULATED BY END AREA METHOD.

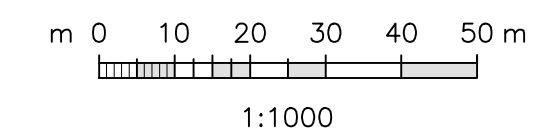
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										DRAWING NUMBER 00-101		REV. B							
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EXISTING SITE PLAN  
1:10000



NOTES:

- FOR GENERAL NOTES, SEE DWG. 22550-00-101.

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ISSUE / REVISIONS															

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PROJECT

STEVESTON SCH WHARF 403 PROJECT  
HABITAT OFFSETTING PLAN, SHADY ISLAND

PERMIT TO PRACTICE NO. 1002971

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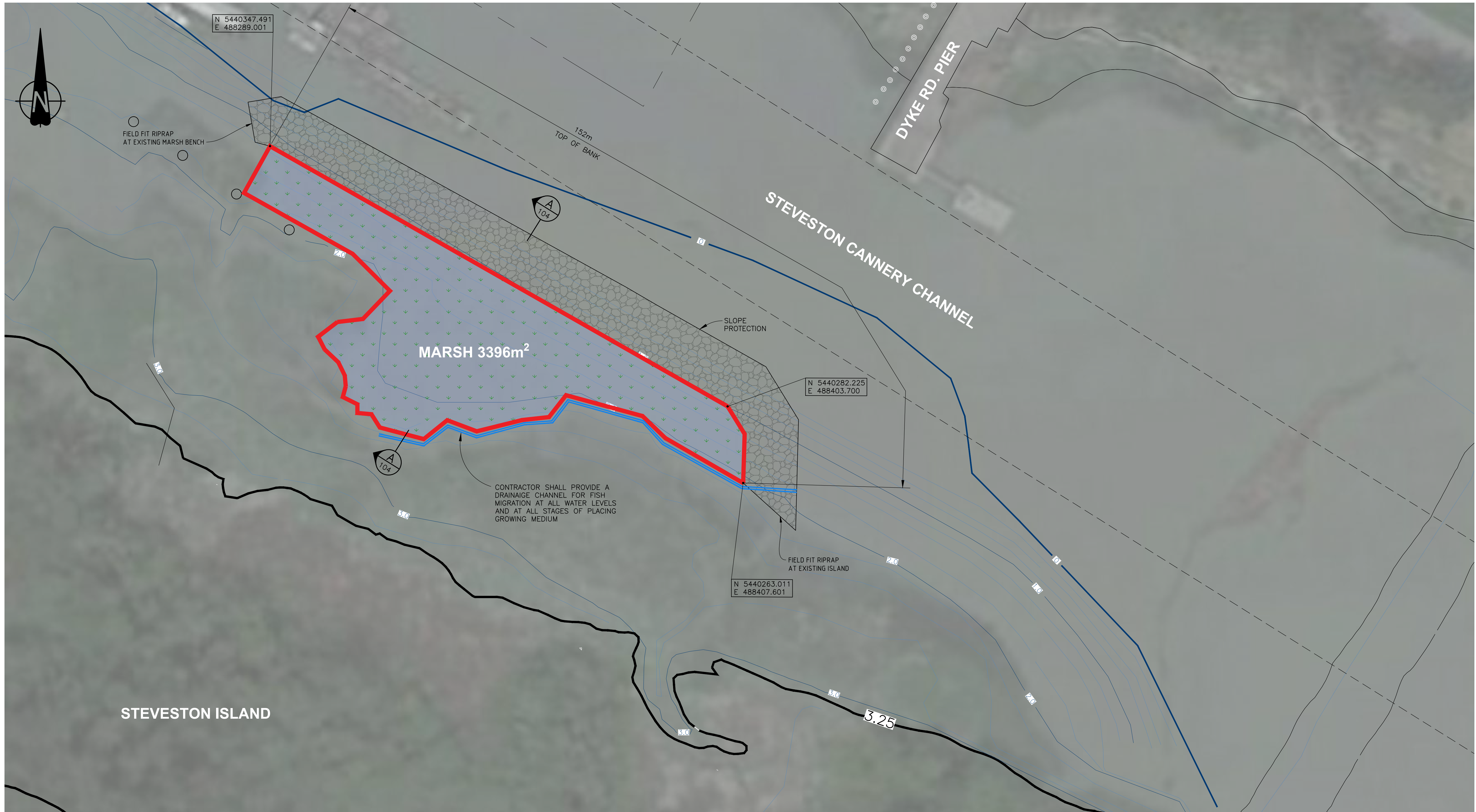
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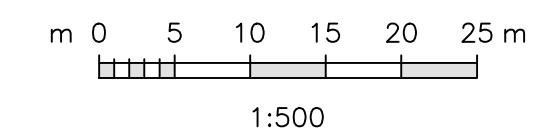
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PLAN - GENERAL ARRANGEMENT  
1:500



NOTES:

- FOR GENERAL NOTES, SEE DWG. 22550-00-101.

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ISSUE / REVISIONS															

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PROJECT

STEVESTON SCH WHARF 403 PROJECT  
HABITAT OFFSETTING PLAN, SHADY ISLAND

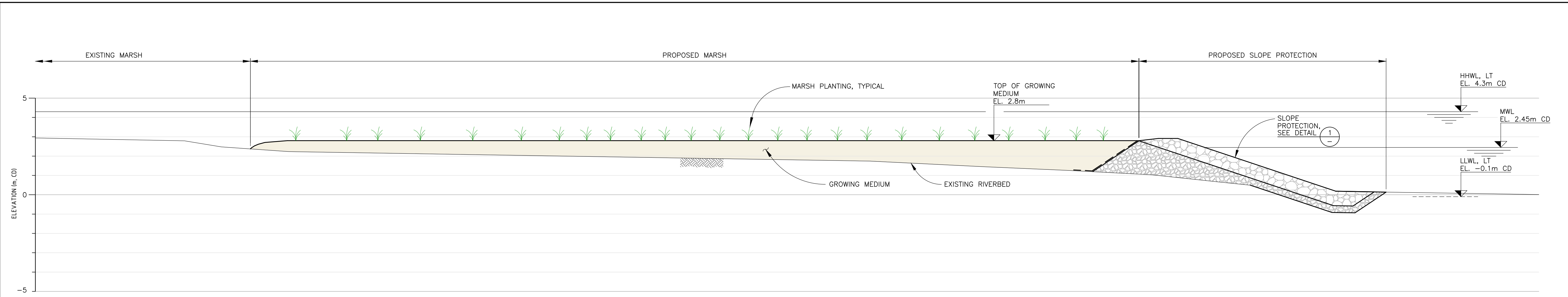
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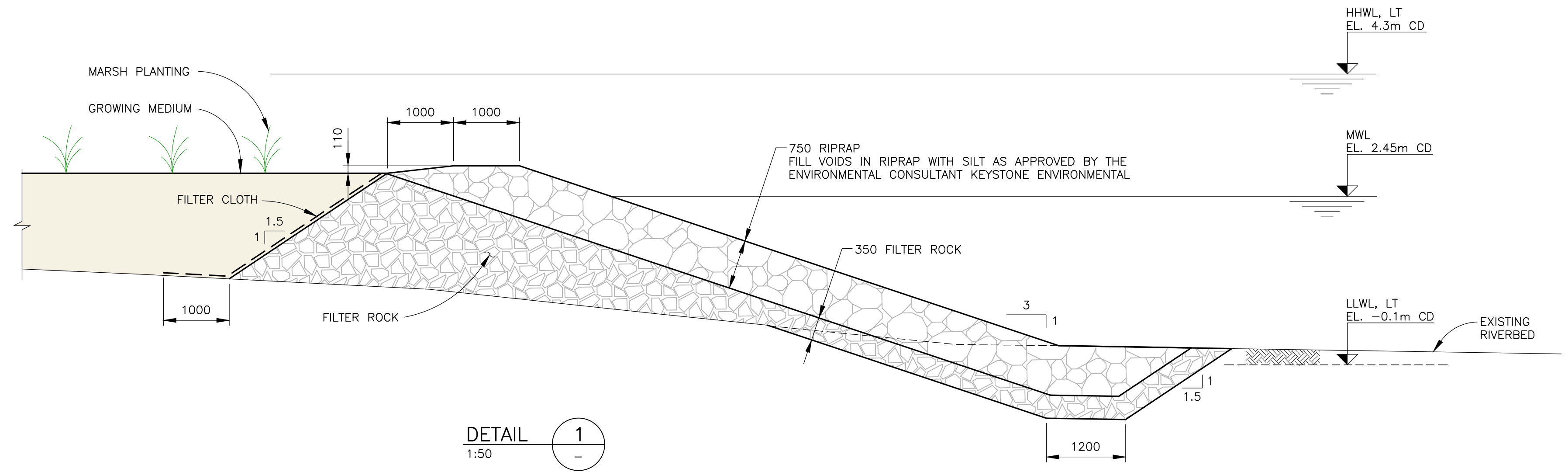
HABITAT BENCH  
GENERAL ARRANGEMENT

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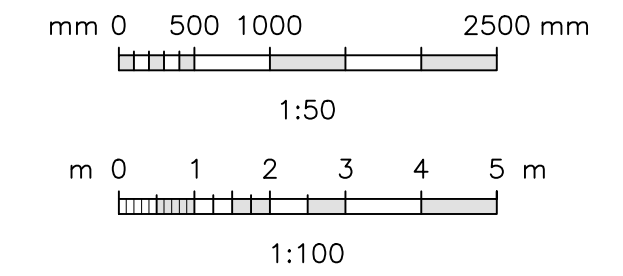




SECTION A  
1:100



DETAIL 1  
1:50



NOTES:  
1. FOR GENERAL NOTES, SEE DWG. 22550-00-101.

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ISSUE / REVISIONS															

CLIENT  
**Keystone Environmental**

PROJECT  
STEVESTON SCH WHARF 403 PROJECT  
HABITAT OFFSETTING PLAN, SHADY ISLAND

PERMIT TO PRACTICE NO. 1002971

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TITLE  
HABITAT BENCH  
SECTION AND DETAIL

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