

# Appendix 3

## Design Drawings



DRAWING INDEX		
SHEET No.	SHEET TITLE	REVISION No.
C00	COVER SHEET	E
C01	PROPOSED RECLAMATION AND BERTH 4 (FB) AREAS	D
C02	PROPOSED RECLAMATION (FC) AREAS	D
C03	SETOUT PLAN - PROPOSED RECLAMATION AND WHARF EXTENTS	D
C04	DREDGING PLAN - PROPOSED RECLAMATION AND EXISTING CONSENTED DREDGING	E

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# NORTHPORT

## RALPH TRIMMER DRIVE, MARSDEN POINT

## NORTHPORT - PROPOSED RECLAMATION & DREDGING

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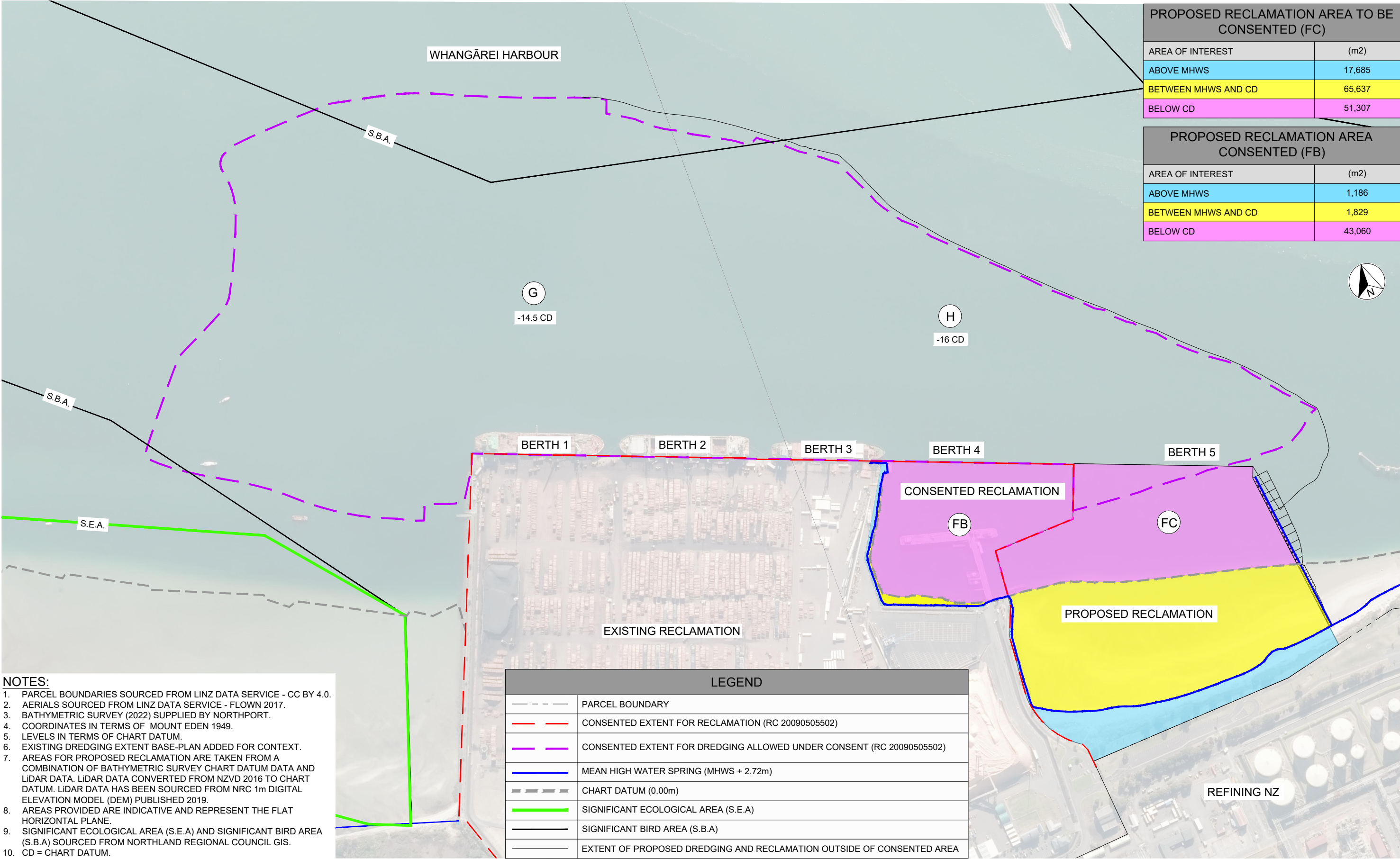
### CIVIL

## CONCEPT - RESOURCE CONSENT

Project No: 1-19278.01(03)  
Date: 2022-08-18

Survey	
Design	
Checked	
Date	

300 mm  
200  
100  
50  
0 10 mm



- NOTES:
1. PARCEL BOUNDARIES SOURCED FROM LINZ DATA SERVICE - CC BY 4.0.
  2. AERIALS SOURCED FROM LINZ DATA SERVICE - FLOWN 2017.
  3. BATHYMETRIC SURVEY (2022) SUPPLIED BY NORTHPORT.
  4. COORDINATES IN TERMS OF MOUNT EDEN 1949.
  5. LEVELS IN TERMS OF CHART DATUM.
  6. EXISTING DREDGING EXTENT BASE-PLAN ADDED FOR CONTEXT.
  7. AREAS FOR PROPOSED RECLAMATION ARE TAKEN FROM A COMBINATION OF BATHYMETRIC SURVEY CHART DATUM DATA AND LIDAR DATA. LIDAR DATA CONVERTED FROM NZVD 2016 TO CHART DATUM. LIDAR DATA HAS BEEN SOURCED FROM NRC 1m DIGITAL ELEVATION MODEL (DEM) PUBLISHED 2019.
  8. AREAS PROVIDED ARE INDICATIVE AND REPRESENT THE FLAT HORIZONTAL PLANE.
  9. SIGNIFICANT ECOLOGICAL AREA (S.E.A) AND SIGNIFICANT BIRD AREA (S.B.A) SOURCED FROM NORTHLAND REGIONAL COUNCIL GIS.
  10. CD = CHART DATUM.

1:2500 @ A1  
1:5000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	P.J.H.	2021-08-10
B	ISSUED FOR COMMENT		
C	ISSUED FOR RESOURCE CONSENT	DTJ	2021-11-15
D	ISSUED FOR RESOURCE CONSENT	BGS	2022-08-11



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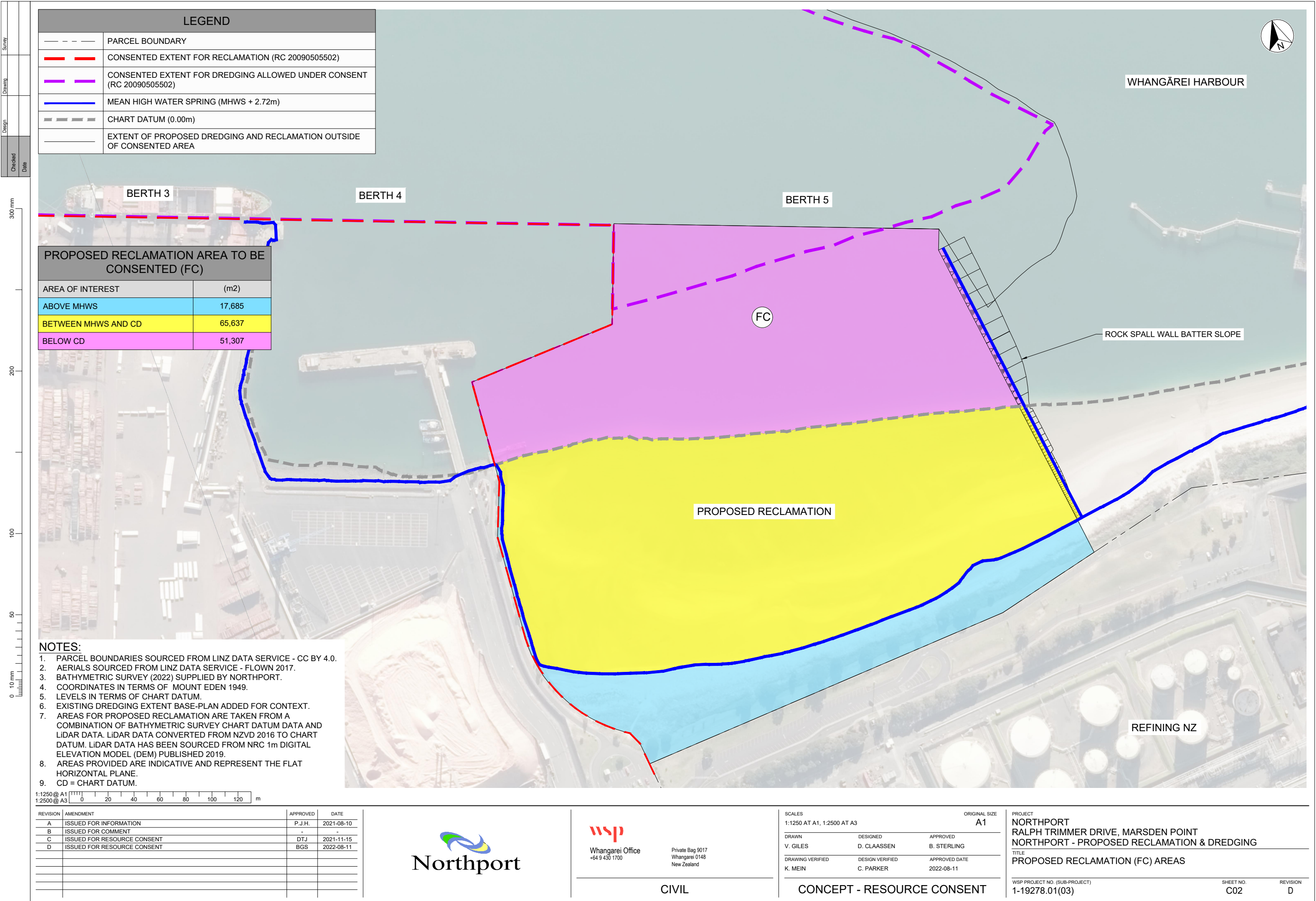
CIVIL

SCALES		ORIGINAL SIZE
1:2500 AT A1, 1:5000 AT A3		A1
DRAWN	DESIGNED	APPROVED
V. GILES	D. CLAASSEN	B. STERLING
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
K. MEIN	C. PARKER	2022-08-11

CONCEPT - RESOURCE CONSENT

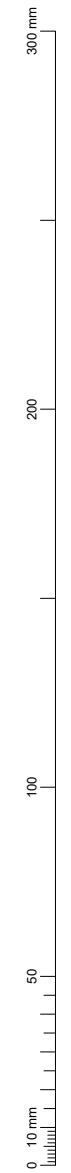
PROJECT	NORTHPORT
RALPH TRIMMER DRIVE, MARSDEN POINT	
NORTHPORT - PROPOSED RECLAMATION & DREDGING	
TITLE	PROPOSED RECLAMATION AND BERTH 4 (FB) AREAS
WSP PROJECT NO. (SUB-PROJECT)	1-19278.01(03)
SHEET NO.	C01
REVISION	D







Survey	
Design	
Checked	
Date	



LEGEND	
	PARCEL BOUNDARY
	MEAN HIGH WATER SPRING (MHWS + 2.72m)
	CONSENTED EXTENT FOR RECLAMATION (RC 20090505502)
	EXTENT OF PROPOSED RECLAMATION
	EXTENT OF BULK EARTHWORKS



- NOTES:
1. PARCEL BOUNDARIES SOURCED FROM LINZ DATA SERVICE - CC BY 4.0.
  2. AERIALS SOURCED FROM LINZ DATA SERVICE - FLOWN 2017.
  3. COORDINATES IN TERMS OF MOUNT EDEN 1949.
  4. TUG JETTY & FISHING JETTY LOCATION & DESIGN TO BE CONFIRMED.
  5. COORDINATES TO 1m ACCURACY.

SETOUT PLAN - EASTERN RECLAMATION AND WHARF EXTENTS  
SCALE 1:1250

1:1250@ A1  
1:2500@ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR INFORMATION	P.J.H.	2021-08-10
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C	ISSUED FOR RESOURCE CONSENT	DTJ	2021-11-15
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CIVIL

SCALES		ORIGINAL SIZE
1:1250 AT A1		A1
DRAWN	DESIGNED	APPROVED
V. GILES	D. CLAASSEN	B. STERLING
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
K. MEIN	C. PARKER	2022-08-11

CONCEPT - RESOURCE CONSENT

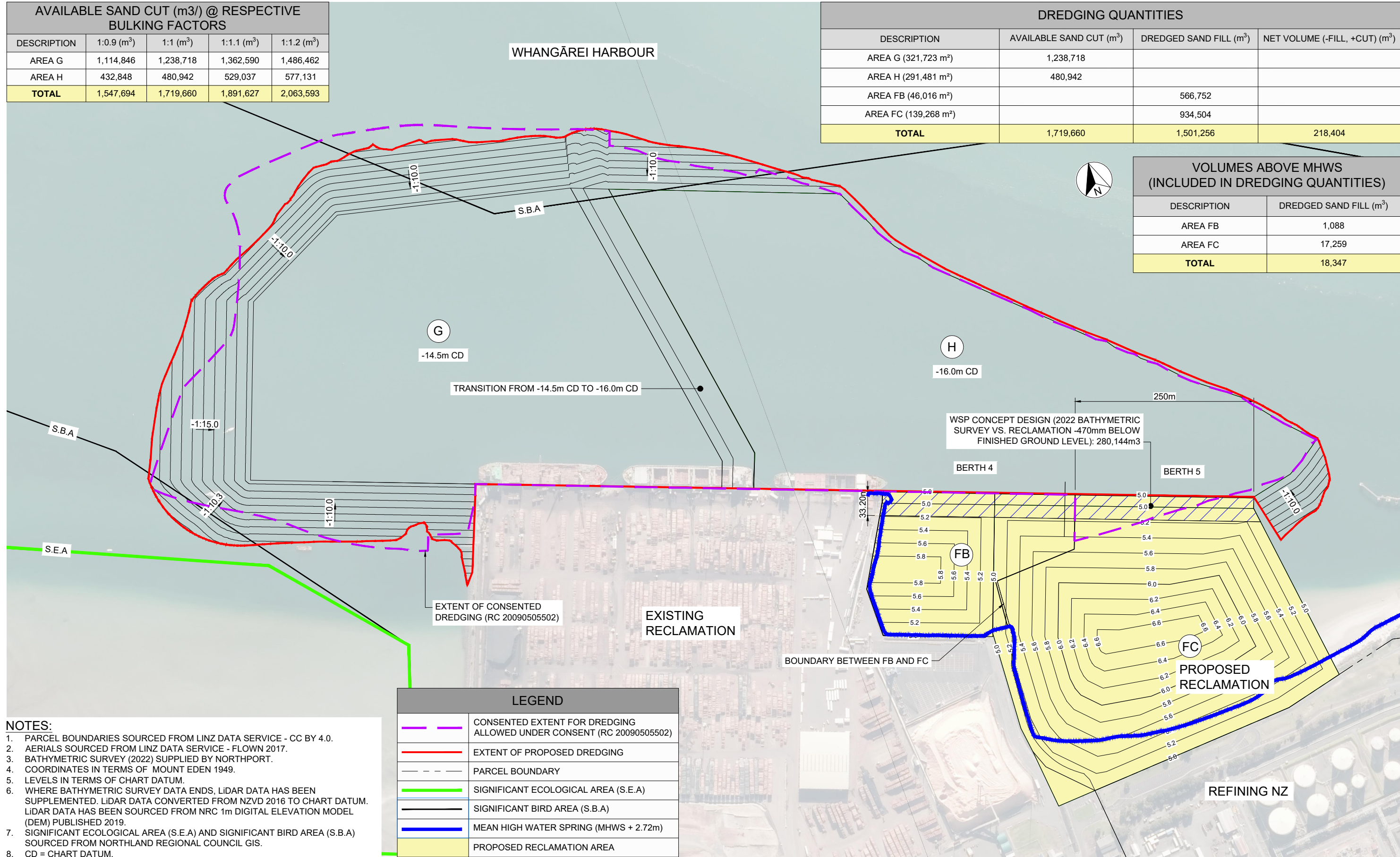
PROJECT	
NORTHPORT	
RALPH TRIMMER DRIVE, MARSDEN POINT	
NORTHPORT - PROPOSED RECLAMATION & DREDGING	
TITLE	
SETOUT PLAN	
PROPOSED RECLAMATION AND WHARF EXTENTS	
WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.
1-19278.01(03)	C03
	REVISION
	D



AVAILABLE SAND CUT (m³) @ RESPECTIVE BULKING FACTORS				
DESCRIPTION	1:0.9 (m³)	1:1 (m³)	1:1.1 (m³)	1:1.2 (m³)
AREA G	1,114,846	1,238,718	1,362,590	1,486,462
AREA H	432,848	480,942	529,037	577,131
TOTAL	1,547,694	1,719,660	1,891,627	2,063,593

DREDGING QUANTITIES			
DESCRIPTION	AVAILABLE SAND CUT (m³)	DREDGED SAND FILL (m³)	NET VOLUME (-FILL, +CUT) (m³)
AREA G (321,723 m²)	1,238,718		
AREA H (291,481 m²)	480,942		
AREA FB (46,016 m²)		566,752	
AREA FC (139,268 m²)		934,504	
TOTAL	1,719,660	1,501,256	218,404

VOLUMES ABOVE MHWS (INCLUDED IN DREDGING QUANTITIES)	
DESCRIPTION	DREDGED SAND FILL (m³)
AREA FB	1,088
AREA FC	17,259
TOTAL	18,347



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C	ISSUED FOR RESOURCE CONSENT	DTJ	2021-11-15
D	ISSUED FOR RESOURCE CONSENT	BGS	2022-08-11
E	ISSUED FOR RESOURCE CONSENT - RECLAMATION AREAS & VOLUMES UPDATED	BGS	2022-08-19



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CIVIL

SCALES  
1:2500 AT A1, 1:5000 AT A3

ORIGINAL SIZE  
A1

DRAWN V. GILES	DESIGNED D. CLAASSEN	APPROVED B. STERLING
DRAWING VERIFIED K. MEIN	DESIGN VERIFIED C. PARKER	APPROVED DATE 2022-08-19

CONCEPT - RESOURCE CONSENT

PROJECT  
NORTHPORT  
RALPH TRIMMER DRIVE, MARSDEN POINT  
NORTHPORT - PROPOSED RECLAMATION & DREDGING

TITLE  
DREDGING PLAN - PROPOSED RECLAMATION  
AND EXISTING CONSENTED DREDGING

WSP PROJECT NO. (SUB-PROJECT)  
1-19278.01(03)

SHEET NO.  
C04

REVISION  
E