

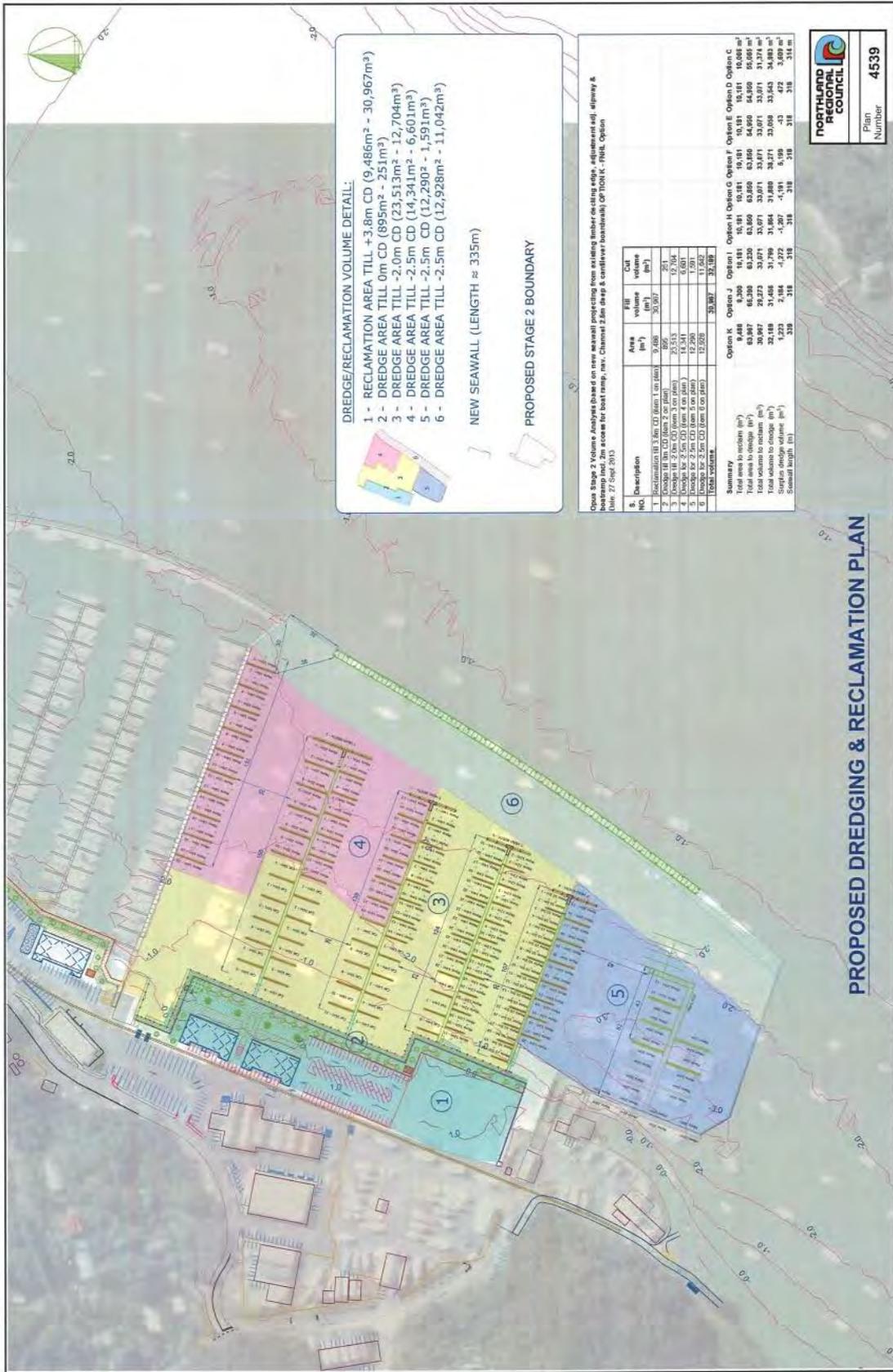
- PROPOSED STAGE 2:**
- N1 - PROPOSED BUILDING 1 (INCL. ABLUTION) (295m² GFA)
 - N2 - PROPOSED BUILDING 2 (394m² GFA)
 - N3 - PROPOSED BUILDING 3 (394m² GFA)
 - O - NEW BREAKWATER
 - P - NEW HARDSTAND AREA (3600m²)
 - Q - NEW CAR PARK AREA (111 nos)
 - R - TIMBER BOARDWALK (2.6m wide)
 - S - DINGHY DOCK (48m long, 1.5m wide pontoon)
 - T - RECLAMATION AREA (9486m²)
 - U - STAGE 2 MARINA LAYOUT (170 berths)
 - V - ESPLANADE STRIP
 - W - PLAYGROUND (108m²)
 - X - RECYCLING AREA
 - Y - RELOCATED PILE MOORINGS (4/4nos of 12m/15m berth)
 - Z1 - NEW DINGHY RACK (2x16+1x24=56nos.)
 - Z2 - PUBLIC BERTH (18m long, 1.5m wide pontoon)
 - Z3 - 2 TRADITIONAL WAKA BERTHS
- NEW SEAWALL (LENGTH ≈ 335m)**
- PROPOSED STAGE 2 BOUNDARY**

Berth	Size	New		Pier G		Pier H		Pier I		Pier J		Pier K		Pier L	Abolish
		No	Total	South	North	South	North	South	North	South	North	South	North		
18.5	20	20	20												7
12	20	28	28												20
14	60	60	60												21
16	20	28	28												34
16.5	20	32	32												5
16.5 CAT	20	11	11												3
18	3	20	20												5
18 CAT	3	6	6												6
20	3	12	12												10
22	3	1	1												1
22 CAT	3	1	1												1
TOTALS	152	270	270	156m	150m	138m	138m	138m	138m	138m	138m	138m	138m	107m	82m



PROPOSED OPUA MARINA STAGE 2 PLAN

v3.0.r2	Drawing Status- Proposed Stage 2 Revision	07/07/2014	Down: IS	Checked: GS	07/07/2014	Job Title:	OPUA MARINA STAGE 2 EXTENSION	Project No.	3014	Rev.	v3.0 rev.2	Sheet No.	04
				Date:	07/07/2014		OPUA MARINA STAGE 2 APPLICATION						
			Scale:	1:2000@A3		Far North Holdings Limited							
			CAD Filename:	OPST2.v3.0.r2		Opua Marina Park P.O. Box 7, Opua 0341 Email: enquiries@fnrc.co.nz							



DREDGE/RECLAMATION VOLUME DETAIL:

- 1 - RECLAMATION AREA TILL +3.8m CD (9,486m³ - 30,967m³)
- 2 - DREDGE AREA TILL 0m CD (895m³ - 251m³)
- 3 - DREDGE AREA TILL -2.0m CD (23,513m³ - 12,704m³)
- 4 - DREDGE AREA TILL -2.5m CD (14,341m³ - 6,601m³)
- 5 - DREDGE AREA TILL -2.5m CD (12,290m³ - 1,591m³)
- 6 - DREDGE AREA TILL -2.5m CD (12,928m³ - 11,042m³)

NEW SEAWALL (LENGTH ≈ 335m)

PROPOSED STAGE 2 BOUNDARY

Opua Stage 2 Volume Analysis (based on new seawall projecting from existing timber existing edge, adjustments to alignment & basemap not to scale for boat ramp, new, Channel 2.5m deep & cantilever seawall) CP110111.C - Final, Option 1, Rev 2, Page 2/10

ID	Description	Area (m ²)	Fill volume (m ³)	Excav volume (m ³)
1	Reclamation till 3.8m CD (area 1 on plan)	9,486	30,967	251
2	Dredge till 0m CD (area 2 on plan)	895	251	895
3	Dredge till -2.0m CD (area 3 on plan)	23,513	12,704	10,809
4	Dredge till -2.5m CD (area 4 on plan)	14,341	6,601	7,740
5	Dredge till -2.5m CD (area 5 on plan)	12,290	1,591	10,699
6	Dredge till -2.5m CD (area 6 on plan)	12,928	11,042	1,886
TOTAL VOLUMES			30,967	32,126

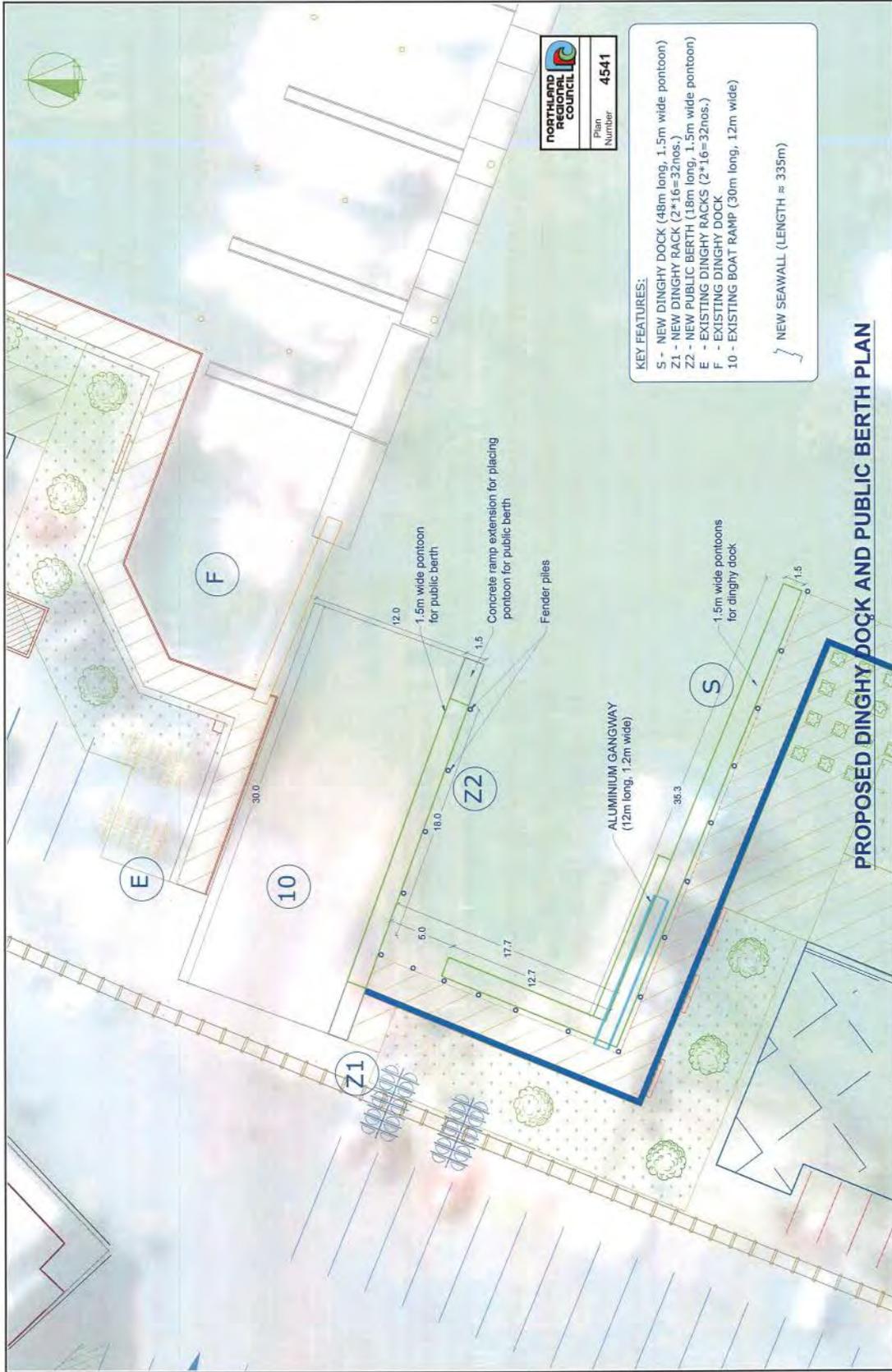
Summary	Option K	Option J	Option I	Option G	Option F	Option E	Option D	Option C
Total area to reclaim (m ²)	9,486	9,200	18,181	18,181	18,181	18,181	18,181	18,085
Total area to dredge (m ²)	63,987	66,286	63,220	63,869	63,869	64,860	64,860	65,068
Total volume to reclaim (m ³)	30,967	29,273	33,071	33,071	33,071	33,071	33,071	31,274
Total volume to dredge (m ³)	32,126	34,013	31,239	31,988	31,988	32,979	32,979	33,185
Seawall length (m)	335	335	335	335	335	335	335	335



PROPOSED DREDGING & RECLAMATION PLAN

v3.0 r2	Drawing Status- Proposed Stage 2 Revision	07/07/2014	Drawn: IS	Checked: GS	Date: 07/07/2014	Scale: 1:2000@A3	CAD Filename: OPSIT2v3.rvt	Job Title:	OPUA MARINA STAGE 2 EXTENSION	Project No.	3014	Rev.	v3.0 rev.2	Sheet No.	05
<p>Far North Holdings Limited Opua Marina Inc. P.O. Box 7, Opua, GIS Email: ena@fnh.co.nz</p>										<p>Drawing Title: OPUA MARINA STAGE 2 APPLICATION</p>		<p>Plan Number 4539</p>			





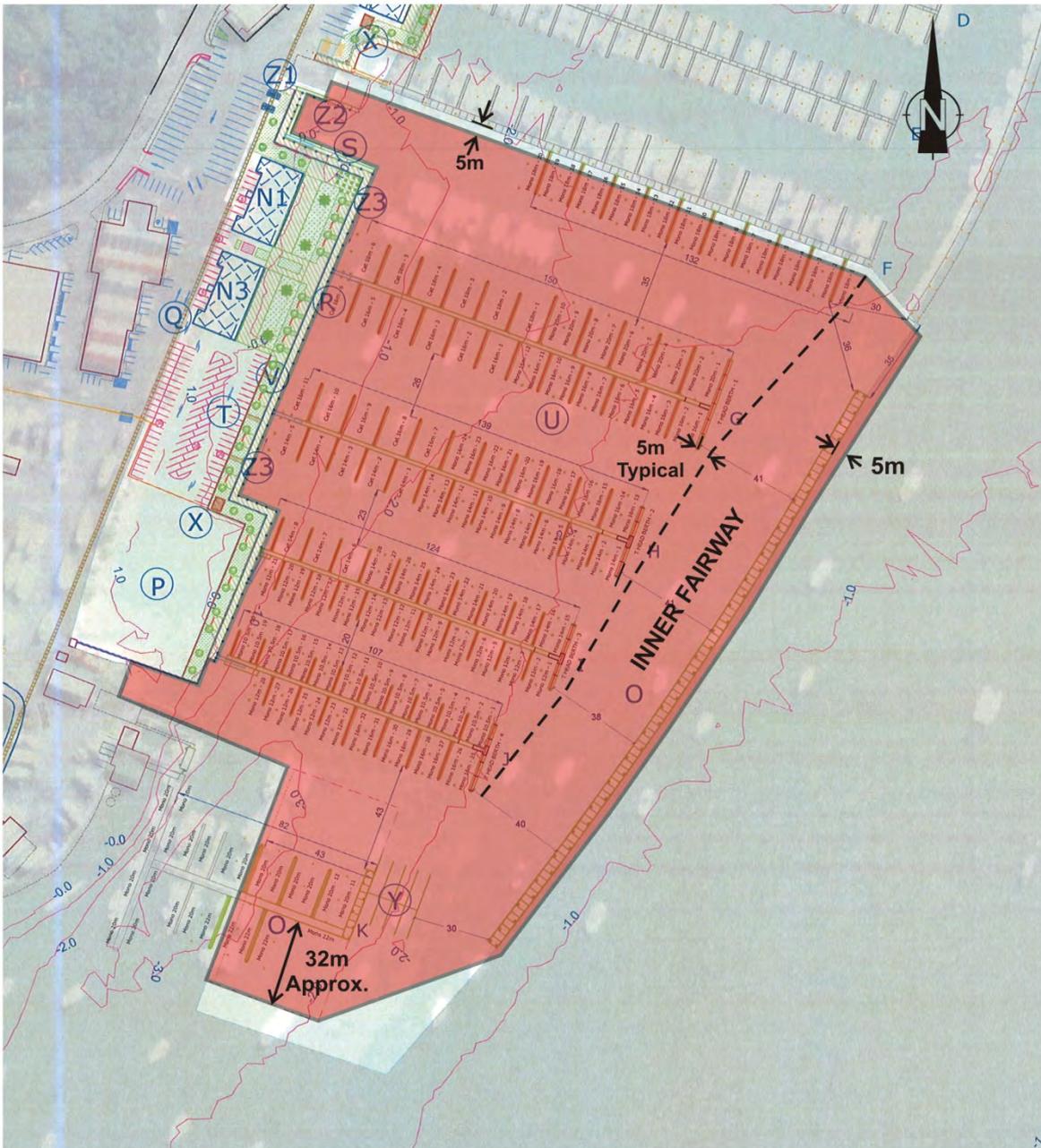
NORTLAND REGIONAL COUNCIL
 Plan Number 4541

KEY FEATURES:
 S - NEW DINGHY DOCK (48m long, 1.5m wide pontoon)
 Z1 - NEW DINGHY RACK (2*16=32nos.)
 Z2 - NEW PUBLIC BERTH (18m long, 1.5m wide pontoon)
 E - EXISTING DINGHY RACKS (2*16=32nos.)
 F - EXISTING DINGHY DOCK
 10 - EXISTING BOAT RAMP (30m long, 12m wide)

NEW SEAWALL (LENGTH ≈ 335m)

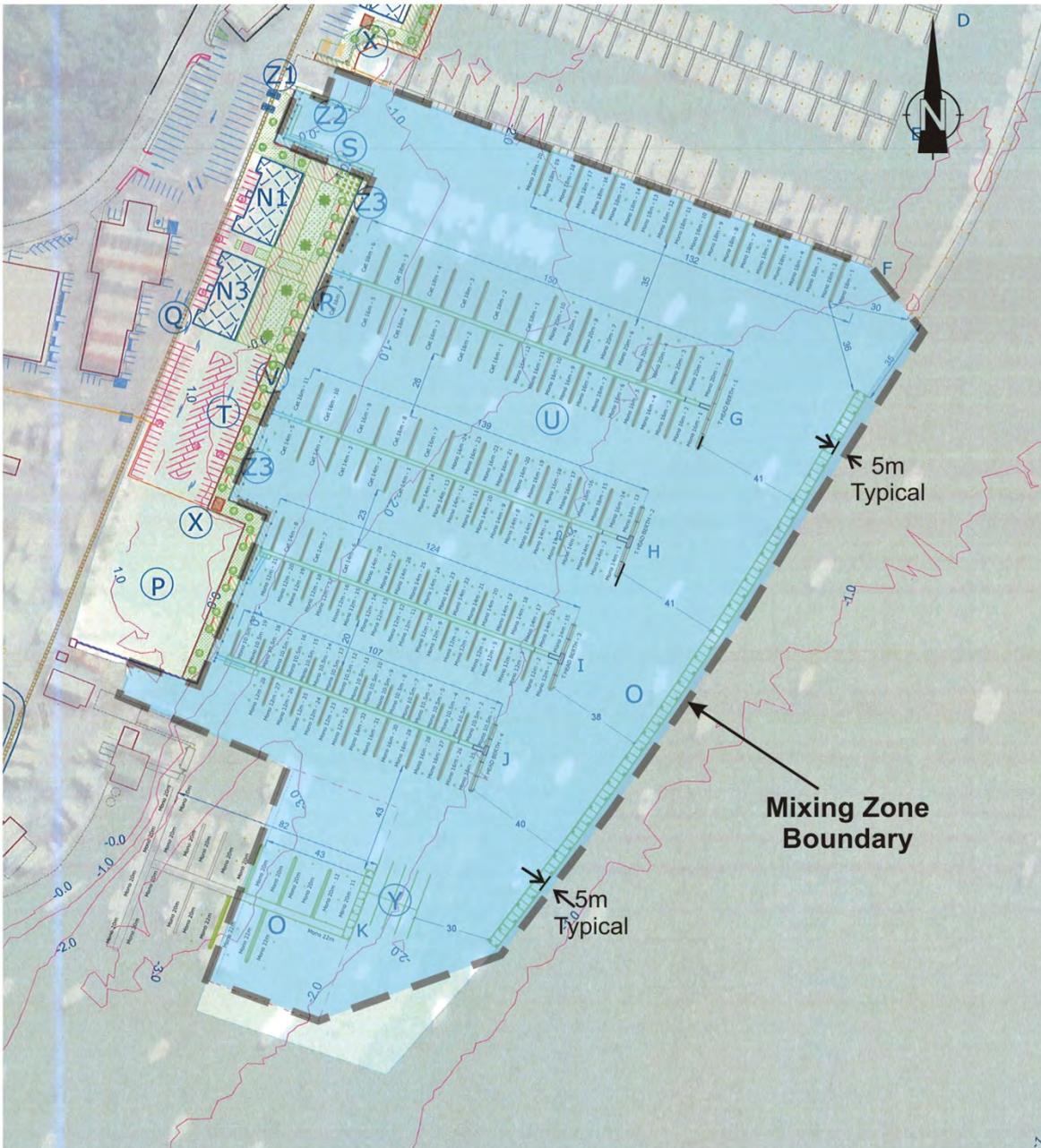
43.012	Drawing Status: Proposed Stage 2 Revision	07/07/2014	Drawn: IS	Checked: GS	Date: 07/07/2014	Scale: 1:250@A3	CAD Filename: OPST2.v3.dwg	Job Title:	OPUA MARINA STAGE 2 EXTENSION	Far North Holdings Limited <small>Opua Marine Park PO Box 104 PO Box 402 545 Email: enquiries@fnh.com.nz</small>	Project No:	3014	Rev:	V3.0 rev.2	Sheet No:	08
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PROPOSED DINGHY DOCK AND PUBLIC BERTH PLAN



**Opua Marina (Stage 2) Development
Occupation Area**

	<p>RESOURCE CONSENT AUT.008385.45.01 for Far North Holdings Limited. Occupation Area Opua</p>	Scale: N.T.S.
		Drawn: PMAX 07/14
		App'd:
		Plan No. 4546



**Opua Marina (Stage 2) Development
Mixing Zone Boundary**

	<p>RESOURCE CONSENT AUT.008385.31.01 and Others for Far North Holdings Limited. Opua Marina Stage 2 - Mixing Zone Opua</p>	Scale: N.T.S.
		Drawn: PMAX 07/12
		App'd:
		Plan No. 4547