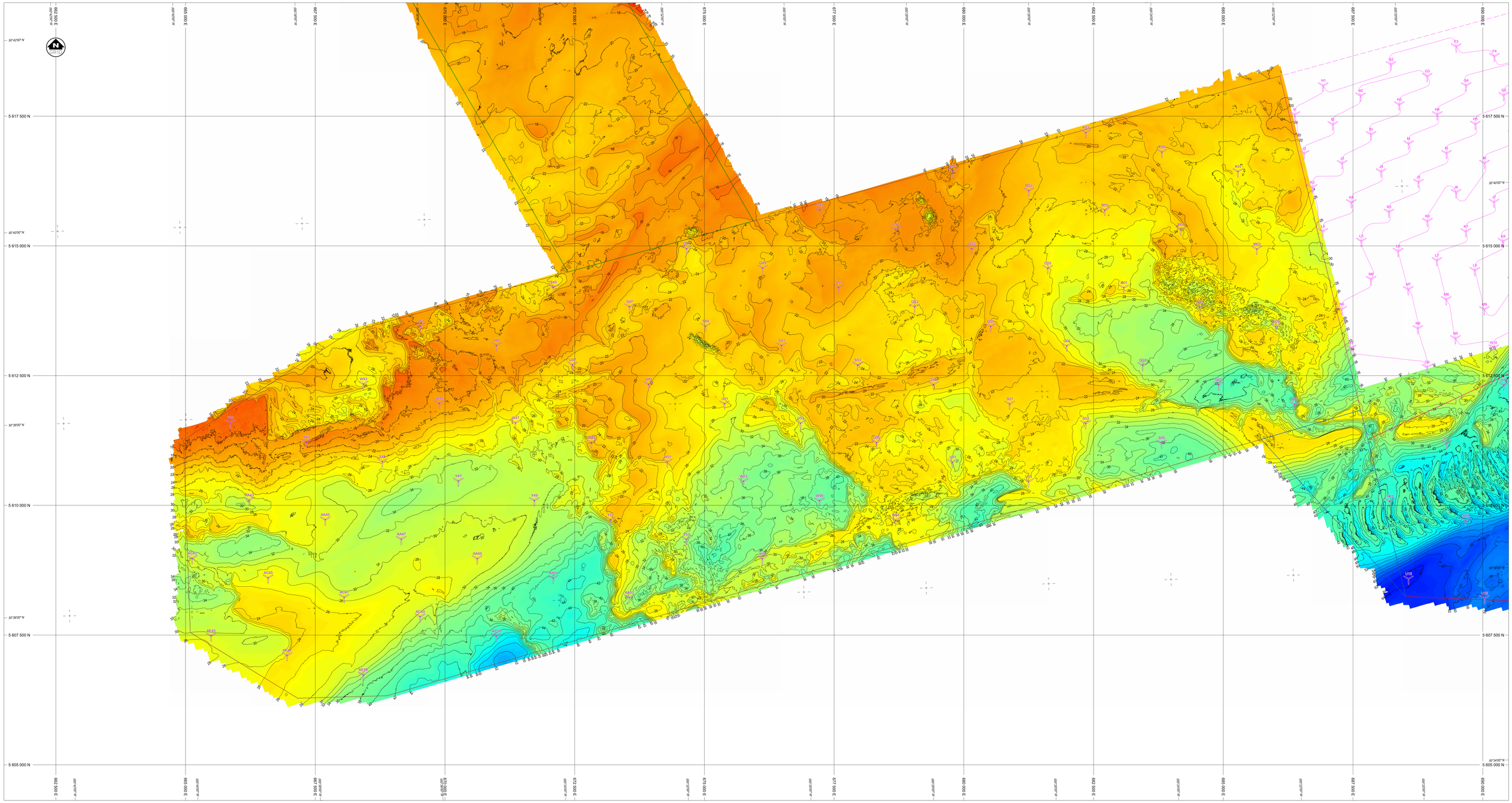
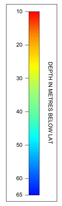


LEGEND

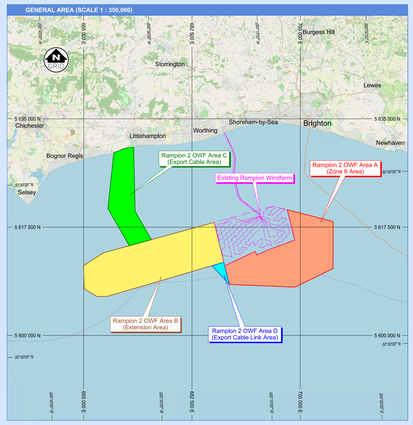
- PROPOSED RAMPION 2 OWF AREA A (ZONE 6 AREA)
- PROPOSED RAMPION 2 OWF AREA B (EXTENSION AREA)
- PROPOSED RAMPION 2 OWF AREA C (EXPORT CABLE AREA)
- PROPOSED RAMPION 2 OWF AREA D (EXPORT CABLE LINK AREA)
- PROPOSED RAMPION 2 WIND TURBINE GENERATOR LAYOUT (SOURCE: CLIENT PROVIDED)
- EXISTING RAMPION WIND TURBINE GENERATOR LAYOUT (SOURCE: CLIENT PROVIDED)
- EXISTING RAMPION WIND FARM CABLE (SOURCE: CLIENT PROVIDED)
- EXISTING RAMPION SURVEY AREA (SOURCE: CLIENT PROVIDED)
- 40 BATHYMETRIC CONTOURS SHOWN AT 10 METRE INTERVALS LAT
- 38 BATHYMETRIC CONTOURS SHOWN AT 2 METRE INTERVALS LAT



NOTES

1. OBSERVED SOUNDINGS HAVE BEEN REDUCED TO LAT TIDAL DATUM USING GNSS HEIGHT DATA PROCESSED USING PPP (PRECISE POINT POSITIONING) TECHNIQUES AND THE UKHO VORF MODEL.
2. THE DIFFERENCE BETWEEN LAT TO MSL IS 3.3m
3. DATA GRIDDED AT 1m x 1m

GENERAL AREA (SCALE 1 : 350,000)



GEODETIC REFERENCE SYSTEM

GEODETIC DATUM:	WGS84
ELLIPSOID:	WGS84
PROJECTION:	UTM ZONE 30 N (CENTRAL MERIDIAN 3° W)

SURVEY INFORMATION

SURVEY VESSEL:	M.V. VIGILANT	M.V. TITAN DISCOVERY	M.V. OCEAN OBSERVER
SURVEY DATE:	30-JUN-2020 TO 01-AUG-2020	01-JUL-2020 TO 12-AUG-2020	16-SEP-2020 TO 13-OCT-2020
POSITIONING SYSTEM:	OCEANDRIVING C-NAV DGNSS	APPLANIX POS MV WAVEMASTER	FUGRO STARFIX DGNSS
	SONARDYNE RANGER USBL	SONARDYNE RANGER USBL	SONARDYNE RANGER USBL
NAVIGATION SYSTEM:	VOYAGER 5	VOYAGER 5	VOYAGER 5
ECHO SOUNDER (MULTI-BEAM SYSTEM):	SIMRAD EM2040D	RESON T20-P DUAL HEAD	SIMRAD EM2040
ECHO SOUNDER (SINGLE-BEAM SYSTEM):	SIMRAD EA400	ODOM ECHOTRAC MKIII	SIMRAD EA400
SIDE SCAN SONAR:	EDGETECH 4200FS	EDGETECH 4200FS	EDGETECH 4200FS
MAGNETOMETER:	GEOMETRICS G882	GEOMETRICS G882	GEOMETRICS G882
SUB-BOTTOM PROFILER:	GEOACOUSTICS PINGER	SURFACE TOW BOOMER	GEOACOUSTICS PINGER
ULTRA HIGH RESOLUTION SEISMIC (UHRS):			1 x 10 cu.in. T.I. SLEEVE GUN 75m TELEDYNE STREAMER

SCALE (A0 ORIGINAL)

1 : 25 000 (Horizontal)

250 0 1250 2500

METRES

TITLE

SURVEY CONTRACTOR

Gardline

GARDLINE LIMITED
ENDEAVOUR HOUSE, ADMIRALTY ROAD, GREAT YARMOUTH, NORFOLK NR30 3NG, ENGLAND
TELEPHONE +44 (0) 1493 845600 FAX +44 (0) 1493 852106 WEBSITE WWW.GARDLINE.COM

CLIENT

RWE
The energy to lead

PROJECT TITLE

RAMPION 2 OFFSHORE WINDFARM DEVELOPMENT GEOPHYSICAL SITE SURVEY FOR AREAS B & D

DRAWING TITLE

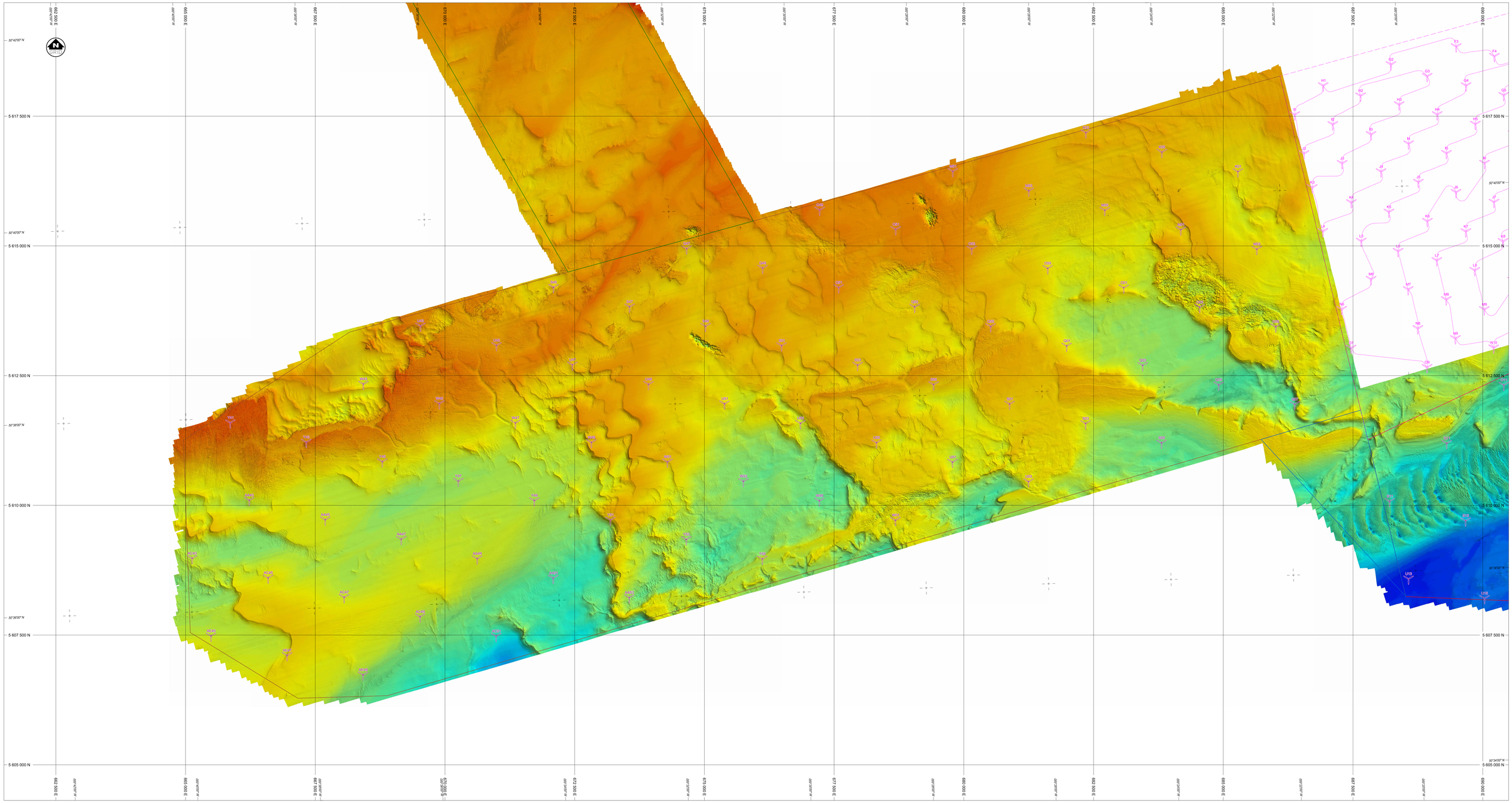
BATHYMETRY

CHART 5

REVISION

REV.	DATE	TITLE	DESCRIPTION	AUTHOR	DRAWN	CHECKED	APPROVED
0	16-DEC-2020	DRAFT	FIRST ISSUE FOR CLIENT REVIEW, PDF ONLY	MC	JS	MK	DIG

CLIENT REFERENCE		REPORT REFERENCE 11521.3	DRAWING NUMBER 11521.3.05



LEGEND

- PROPOSED RAMPION 2 OWF AREA A (ZONE 6 AREA)
- PROPOSED RAMPION 2 OWF AREA B (EXTENSION AREA)
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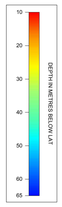
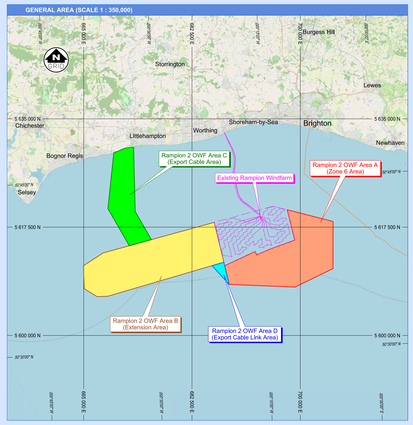
- EXISTING RAMPION SURVEY AREA (SOURCE: CLIENT PROVIDED)



NOTES

1. OBSERVED SOUNDINGS HAVE BEEN REDUCED TO LAT TIDAL DATUM USING GNSS HEIGHT DATA PROCESSED USING PPP (PRECISE POINT POSITIONING) TECHNIQUES AND THE UKHO VORF MODEL.
2. THE DIFFERENCE BETWEEN LAT TO MSL IS 3.3m
3. DATA GRIDDED AT 1m x 1m
4. SHADED RELIEF IMAGE - AZIMUTH=45°, ELEVATION=55°

GENERAL AREA (SCALE 1 : 350,000)



GEODETIC REFERENCE SYSTEM

GEODETIC DATUM:	WGS84
ELLIPSOID:	WGS84
PROJECTION:	UTM ZONE 30 N (CENTRAL MERIDIAN 3° W)

SURVEY INFORMATION

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NAVIGATION SYSTEM:	SONARDYNE RANGER USBL VOYAGER 5	SONARDYNE RANGER USBL VOYAGER 5	SONARDYNE RANGER USBL VOYAGER 5
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ULTRA HIGH RESOLUTION SEISMIC (UHRS):			1 x 10 cu.in. T.I. SLEEVE GUN 75m TELEDYNE STREAMER

SCALE (A0 ORIGINAL)

1 : 25 000 (Horizontal)

250 0 1250 2500

METRES

TITLE

SURVEY CONTRACTOR

Gardline

GARDLINE LIMITED
ENDEAVOUR HOUSE, ADMIRALTY ROAD, GREAT YARMOUTH, NORFOLK NR30 3NG, ENGLAND
TELEPHONE +44 (0) 1493 845600 FAX +44 (0) 1493 852106 WEBSITE WWW.GARDLINE.COM

CLIENT

RWE
The energy to lead

PROJECT TITLE

RAMPION 2 OFFSHORE WINDFARM DEVELOPMENT
GEOPHYSICAL SITE SURVEY FOR AREAS B & D

DRAWING TITLE

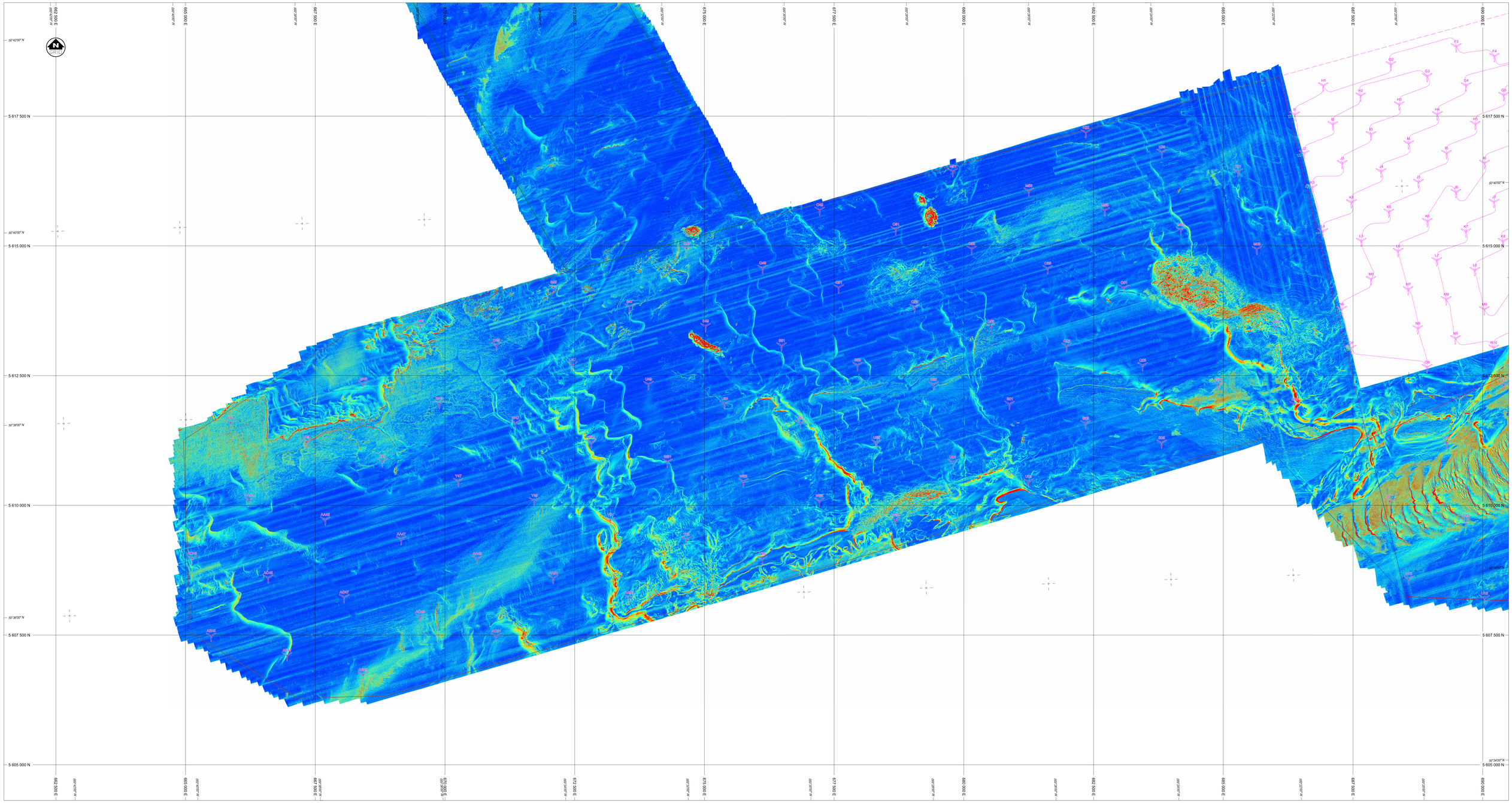
SEABED SHADED RELIEF

CHART 6

REVISION

REV.	DATE	TITLE	DESCRIPTION	AUTHOR	DRAWN	CHECKED	APPROVED
0	16-DEC-2020	DRAFT	FIRST ISSUE FOR CLIENT REVIEW, PDF ONLY	MC	JS	MK	DIG

CLIENT REFERENCE	REPORT REFERENCE 11521.3	DRAWING NUMBER	11521.3.06



LEGEND

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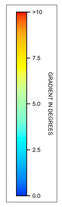
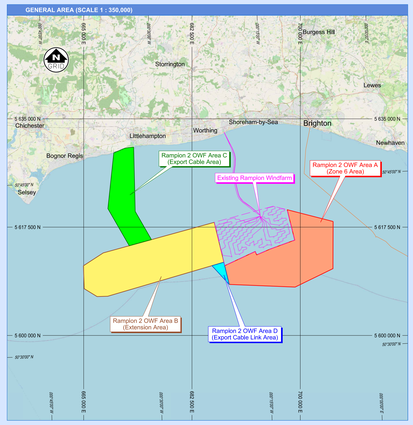
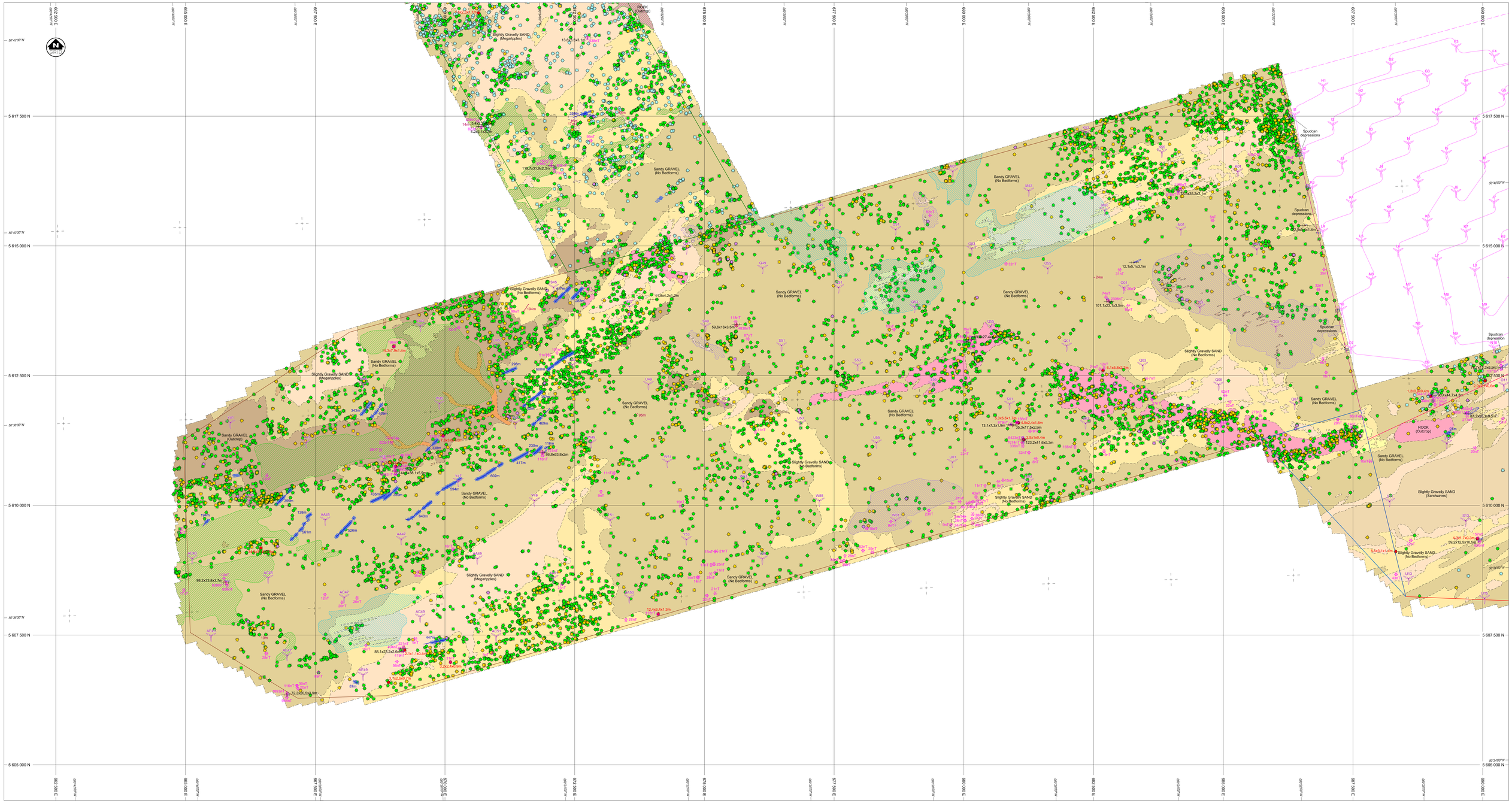


NOTES

GENERAL AREA (SCALE 1 : 350,000)


Burgess Hill
Stoke Ferry
Stoke Ferry
Stoke Ferry



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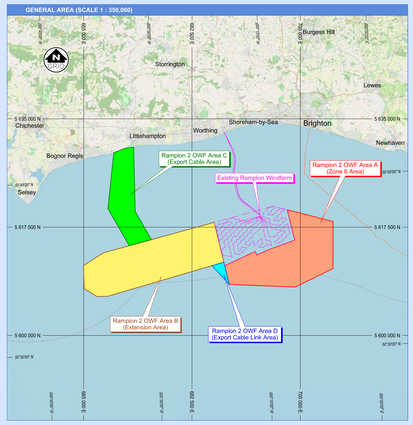
- EXISTING RAMPION SURVEY AREA (SOURCE: CLIENT PROVIDED)
- SAND (MEGARIPPLED)
- SLIGHTLY GRAVELLY SAND (NO BEDFORMS)
- SLIGHTLY GRAVELLY SAND (MEGARIPPLED)
- SLIGHTLY GRAVELLY SAND (SAND WAVES)
- SANDY GRAVEL (NO BEDFORMS)
- SANDY GRAVEL (MEGARIPPLED)
- SANDY GRAVEL (OUTCROP)
- SANDY GRAVEL (CHANNELLING)
- ROCK (OUTCROP)
- AREA OF NUMEROUS BOULDERS
- AREA OF WRECK
- AREA OF SCOUR
- AREA OF POSSIBLE LIGHTLY SCARRED DREDGING EXTRACTION
- AREA OF POSSIBLE HEAVILY SCARRED DREDGING EXTRACTION
- BOULDER WITH HEIGHT 0.1-0.2 METRES
- BOULDER WITH HEIGHT 0.3-0.5 METRES
- BOULDER WITH HEIGHT 0.6-1.0 METRES
- BOULDER WITH HEIGHT GREATER THAN 1.0 METRES
- DEBRIS WITH DIMENSIONS IN METRES (LxWxH)
- MAGNETOMETER ANOMALY WITH FIELD STRENGTH IN nT
- WRECK WITH DIMENSIONS IN METRES (LxWxH)
- LINEAR DEBRIS WITH LENGTH IN METRES
- SPUDCAN DEPRESSION
- FISHING POT
- LINEAR FISHING GEAR WITH LENGTH IN METRES
- LIMIT OF SIDE SCAN SONAR COVERAGE

NOTES

GENERAL AREA (SCALE 1 : 350,000)



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METRES

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CLIENT

RWE The energy to lead

PROJECT TITLE

RAMPION 2 OFFSHORE WINDFARM DEVELOPMENT GEOPHYSICAL SITE SURVEY FOR AREAS B & D

DRAWING TITLE

SEABED FEATURES

CHART 8

REVISION

REV.	DATE	TITLE	DESCRIPTION	AUTHOR	DRAWN	CHECKED	APPROVED
0	16-DEC-2020	DRAFT	FIRST ISSUE FOR CLIENT REVIEW. PDF ONLY	CT	JS	MK	DIG

CLIENT REFERENCE	REPORT REFERENCE	11521.3	DRAWING NUMBER	11521.3.08