

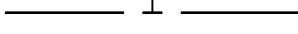
GEODETIC PARAMETERS	
DATUM	WGS 1984
ELLIPSOID (SPHEROID)	WGS84 GEODETIC SYSTEM 1984
SEMI-MAJOR AXIS (M)	6378137.000 m
SEMI-MINOR AXIS	6356752.314 m
INVERSE FLATTENING (1/F)	298.257223563000 m
PROJECTION PARAMETERS:	
PROJECTION	UNIVERSAL TRANSVERSE MERCATOR NORTH ORIENTATED
ZONE	30N
LATITUDE OF ORIGIN	0°00'00.000" N
LONGITUDE OF ORIGIN	0°00'00.000" W
SCALE FACTOR	0.9996
FALSE EASTING	500.000m
FALSE NORTHING	0m
UNITS	INTERNATIONAL METRES, DEGREES

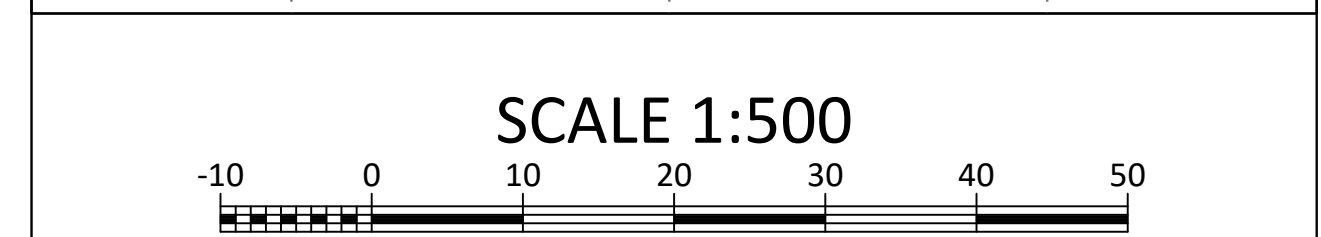
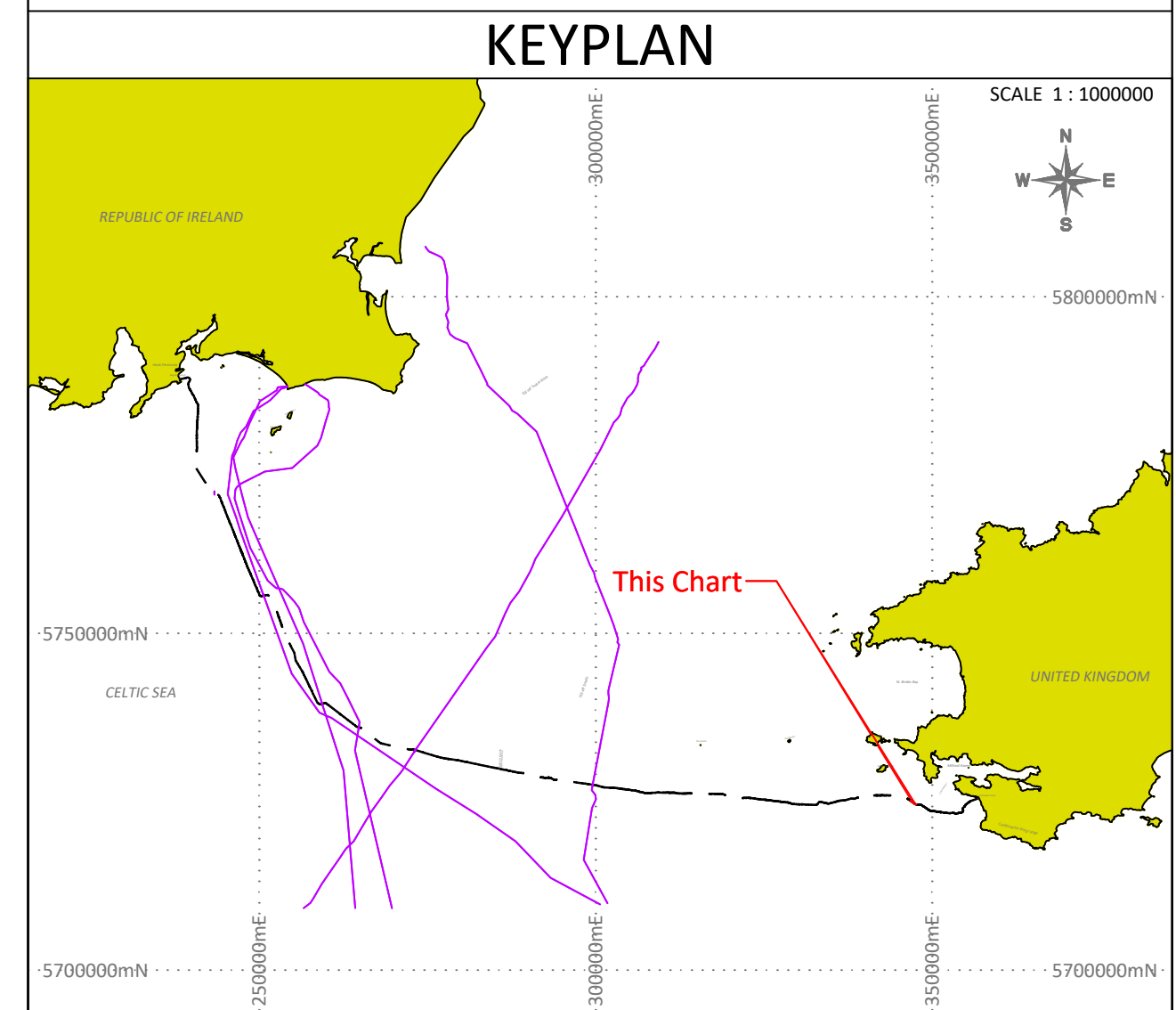
NOTES

1. All co-ordinates are in metres unless otherwise stated.	
2. Height and water depths are reduced to Lowest Astronomical Tide (LAT) using the UKHO VORTI model.	
3. All values are based on geographical ranges from the latest RPA revision, with PRODIGAL Freshwater Wet Bed(s) in use. In the UK the topograph is based in Ireland.	
4. Existing features or obstructions are derived from the latest construction drawing.	
5. Bathymetric data has been acquired using the following equipment:	
VESSEL	FPV SIMON STEIN
SURFACE POSITIONING	NAVCOM-NAV 3050 (PPP)
GYRO	IXBLUE OCEANS SURFACE
MNU	IXBLUE OCEANS SURFACE
SURFACE POSITIONING	KONGBERG HIPAP 501
ROV	SMD PROV
INK, IMU	IXBLUE REVINS
GYRO & IMU	IXBLUE IMU
DOPPER VELOCITY LOG	TELEDINE RD WINH 1200+UG12
PRESSURE SENSOR	VALTEC SP 70240
SOUNDING VELOCITY SENSOR	VIPEXPORT HANNOVS
MULTIBeam SONAR	TELEDINE RESON SEABED B125
CTD BODY	VALTEC INDAGA 502
6. DTM Grid size is 0.20m	
7. Survey has been executed over 29/07/2004.	

LEGEND

PLAN VIEWS

	PROJECTION GRID (COORDINATES IN METRES)
	T&P CABLE ROUTE (RPL_REV14)
	CROSS PROFILE POSITION
	AS-TRENCHED / AS-FOUND CABLE
	EXISTING CABLES
	SUBSEA ROCK BERM DESIGN LIMITS
	SUBSEA ROCK BERM DESIGN
	BATHYMETRIC CONTOURS AT 1.0m INTERVAL (ANNOTATED)
	BATHYMETRIC CONTOURS AT 0.20m INTERVAL



CLIENT



CONTRACTOR



**SUMITOMO
ELECTRIC**

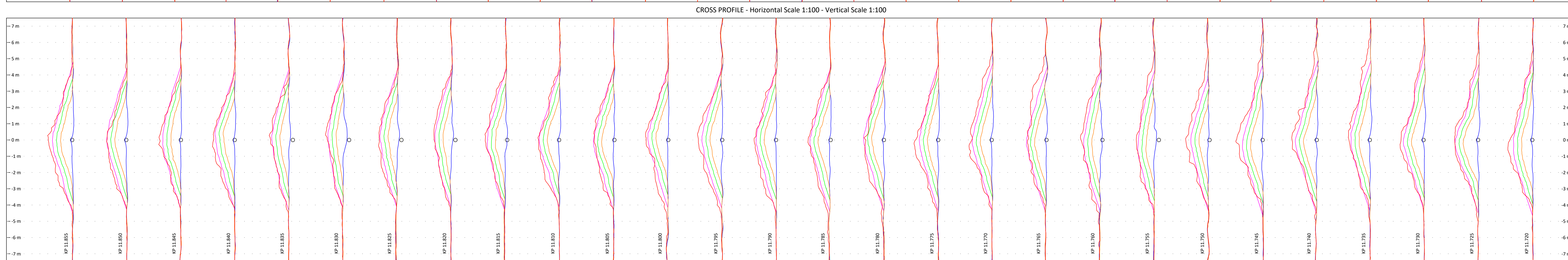
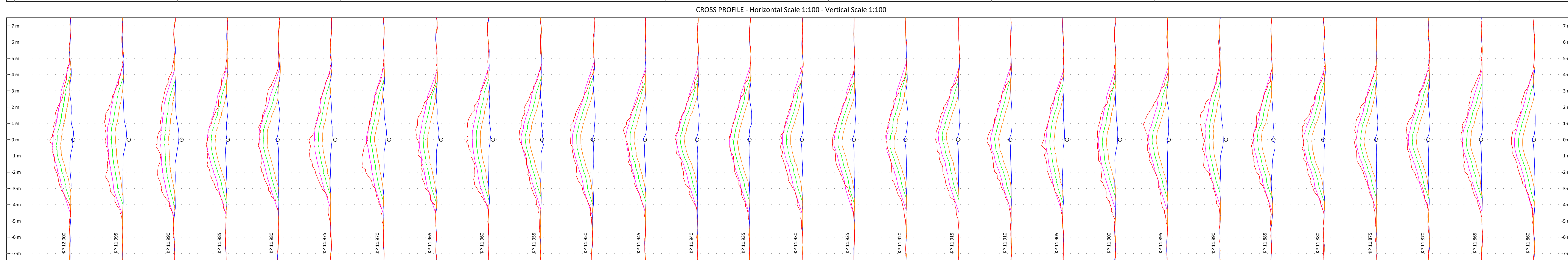
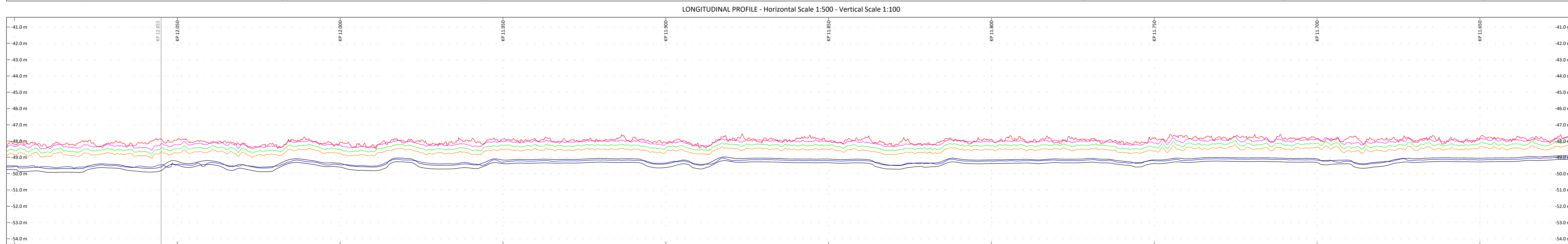
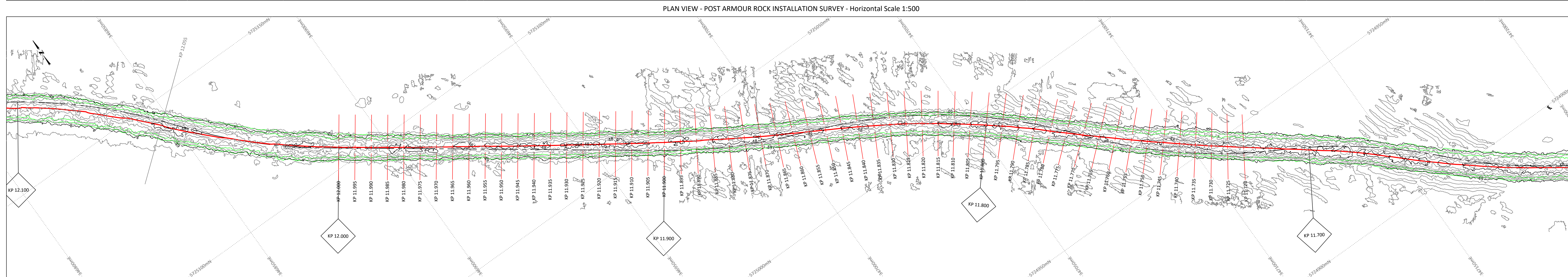
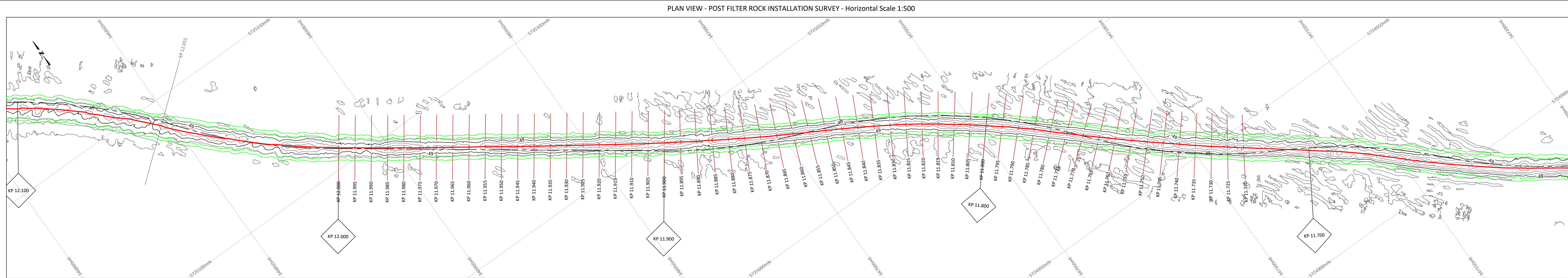
SUBCONTRACTOR

 **Jan De Nul**
Luxembourg SA

PROJECT	GREENLINK INTERCONNECTOR PROJECT SUB-CONTRACT FOR OFFSHORE HVDC INSTALLATION AND BURIAL
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TITLE	AS BUILT ROCK INSTALLATION ARMOUR LAYER KP 12.005 - KP 12.273
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[illegible]



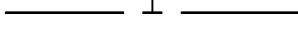
GEODETIC PARAMETERS	
DATUM	WGS 1984
ELLIPSOID (SPHEROID)	WORLD GEODETIC SYSTEM 1984
SEMI-MAJOR AXIS (M)	6378137.000 m
SEMI-MINOR AXIS	6356752.314 m
INVERSE FLATTENING (1/F)	298.257223563000 m
PROJECTION PARAMETERS:	
PROJECTION	UNIVERSAL TRANSVERSE MERCATOR NORTH ORIENTATED
ZONE	30N
LATITUDE OF ORIGIN	0°00'00.000" N
LONGITUDE OF ORIGIN	0°00'00.000" W
SCALE FACTOR	0.9996
FALSE EASTING	500.000m
FALSE NORTHING	0m
UNITS	INTERNATIONAL METRES, DEGREES

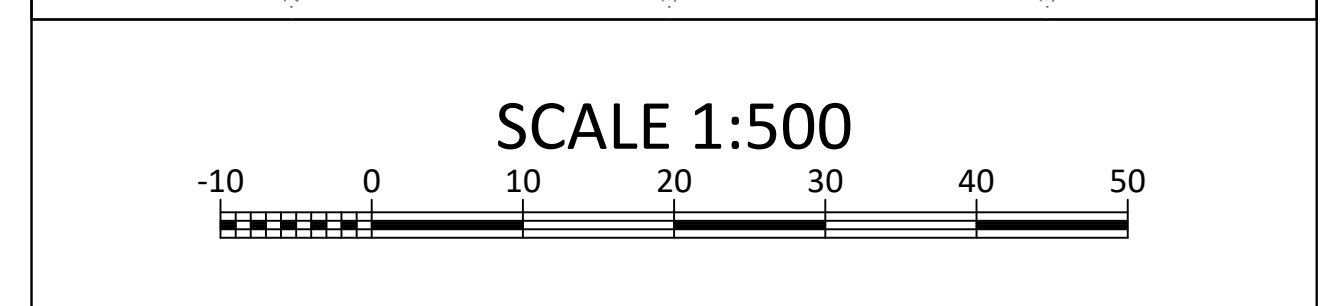
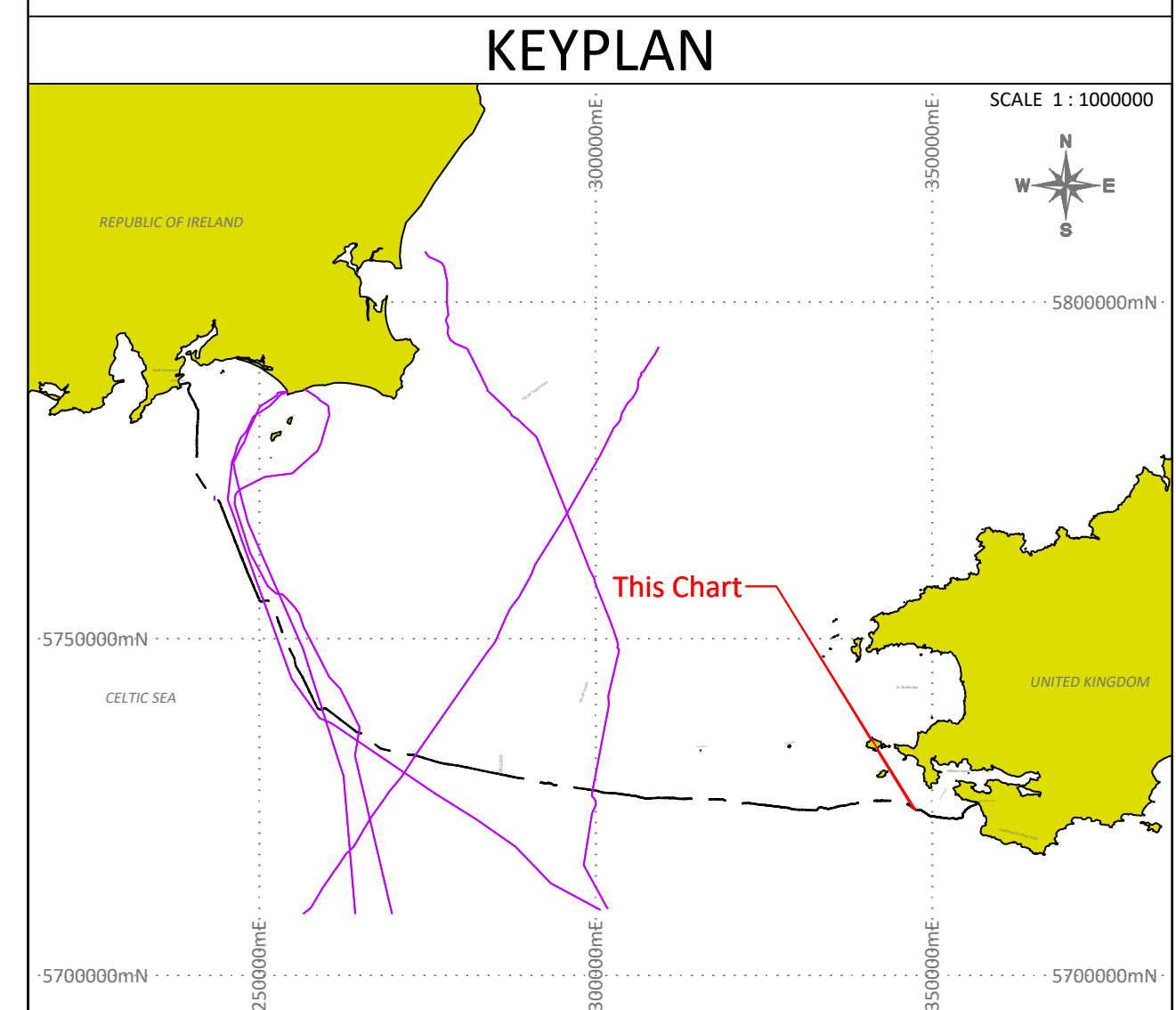
NOTES

1. All co-ordinates are in metres unless otherwise stated.	
2. Height and water depths are reduced to Lowest Astronomical Tide (LAT) using the UKHO VORTI model.	
3. All values are based on geographical ranges along the latest RPL revision.	
4. With PROLOG at Freshwater West Beach in the UK, to the buoyage - based in Ireland.	
5. Existing features or obstructions are derived from the latest construction drawing.	
6. Bathymetric data has been acquired using the following equipment:	
VESSEL	FPV SUMO STEIN
SURFACE POSITIONING	NAVCOM-NAV 3050 (PPP)
GYRO	IXBUE OCEANS SURFACE
MNU	IXBUE OCEANS SURFACE
SURFACE POSITIONING	KONGSBERG HIPAP 501
ROV	SMD PROV
INK, IMU	IXBUE RIMOS
GYRO & IMU	IXBUE IMU
DOPPER VELOCITY LOG	TELETRON RD WINH 1200+UG12
PRESSURE SENSOR	VALTEC SK 70240
SOUNDING VELOCITY SENSOR	VELOCIPROF HANNOVS
MULTIBeam SONAR	TELETRON RESON SEABAT B125
CTD BODY	VALTEC INDAGA 502
6. DTM Grid size is 0.20m	
7. Survey has been executed over 29/07/2004.	

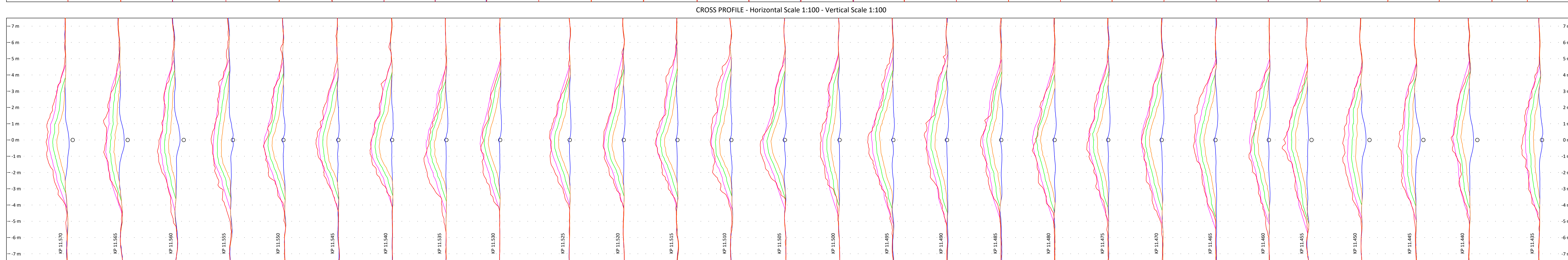
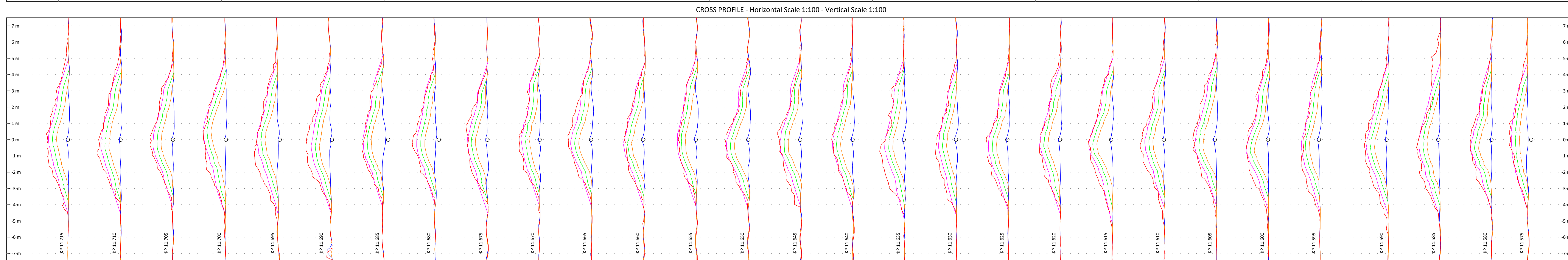
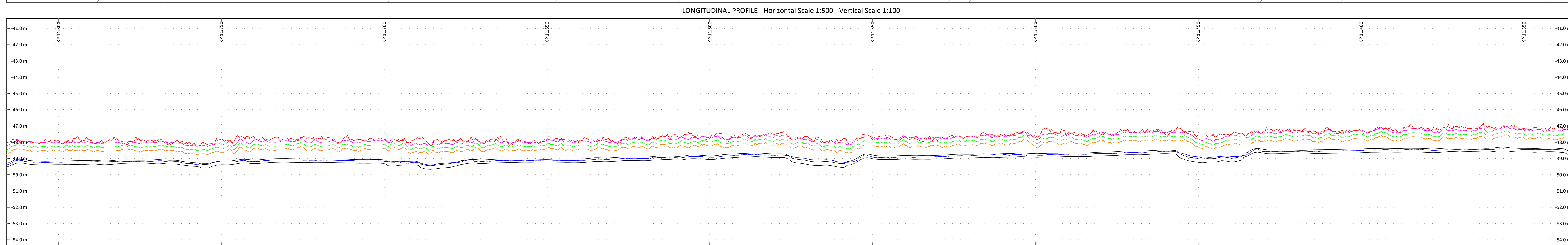
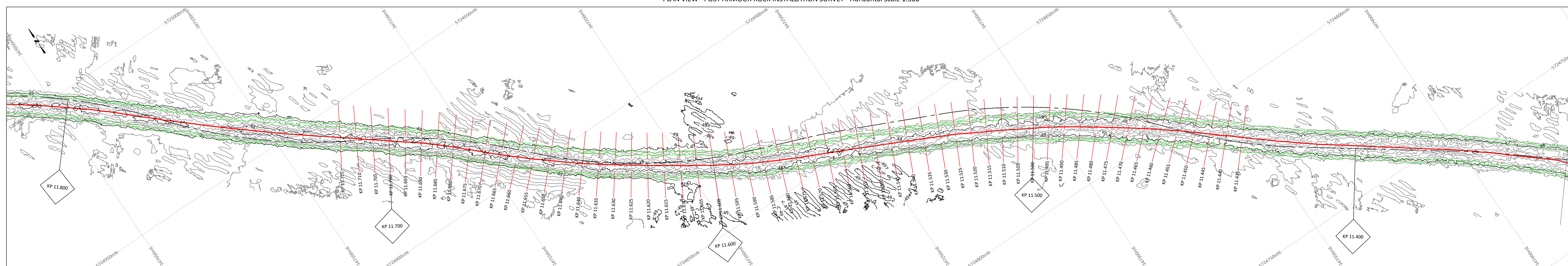
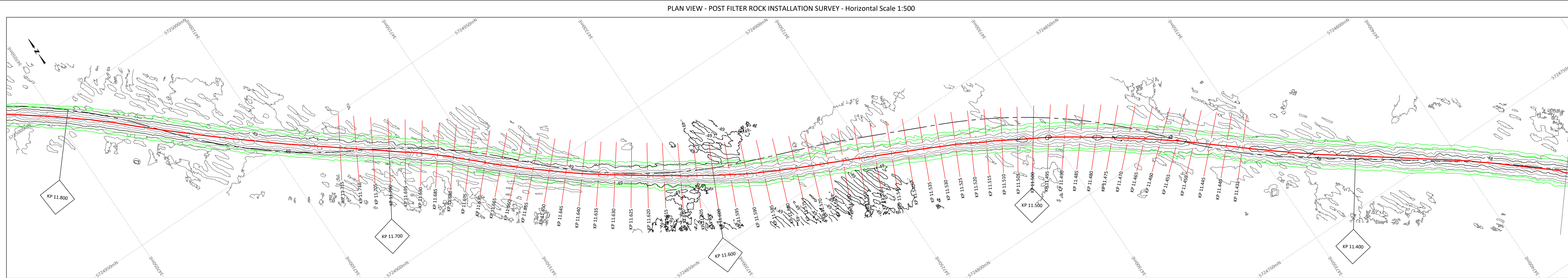
LEGEND

PLAN VIEWS

	PROJECTION GRID (COORDINATES IN METRES)
	T&P CABLE ROUTE (RPL_REV14)
	CROSS PROFILE POSITION
	AS-TRENCHED / AS-FOUND CABLE
	EXISTING CABLES
	SUBSEA ROCK BERM DESIGN LIMITS
	SUBSEA ROCK BERM DESIGN
	BATHYMETRIC CONTOURS AT 1.0m INTERVAL (ANNOTATED)
	BATHYMETRIC CONTOURS AT 0.20m INTERVAL



CLIENT 							
CONTRACTOR  SUMITOMO ELECTRIC							
SUBCONTRACTOR  Jan De Nul Luxembourg SA							
PROJECT GREENLINK INTERCONNECTOR PROJECT SUB-CONTRACT FOR OFFSHORE HVDC INSTALLATION AND BURIAL							
TITLE AS BUILT ROCK INSTALLATION ARMOUR LAYER KP 11.720 - KP 12.000							
REV No.	DATE	DESCRIPTION	BY	CHK	APP	CONT	CLIENT
00	04/08/2024	ISSUED FOR REVIEW	BUAM	DCST	QT		
COMMENTS:						SIZE:	AD:
CONTRACTOR'S SIGNATURE:						SHEET:	2 of 4
SUBCONTRACTOR'S SIGNATURE:						REV:	00



GEODEIC PARAMETERS	
DATUM	WGS 1984
ELLIPSOID (SPHEROID)	WORLD GEODEIC SYSTEM 1984
SEMI-MAJOR AXIS (M)	6378137.000 m
SEMI-MINOR AXIS	6356752.314 m
INVERSE FLATTENING (1/F)	298.257223563000 m
PROJECTION PARAMETERS:	
PROJECTION	UNIVERSAL TRANSVERSE MERCATOR NORTH ORIENTATED
ZONE	30N
LATITUDE OF ORIGIN	0°00'00.000" N
LONGITUDE OF ORIGIN	0°00'00.000" W
SCALE FACTOR	0.9996
FALSE EASTING	500.000m
FALSE NORTHING	0m
UNITS	INTERNATIONAL METRES, DEGREES

NOTES

- 1. All co-ordinates are in metres unless otherwise stated.
- 2. Heights or water depths are reduced to Lowest Astronomical Tide (LAT) using the UKHO VORM model.
- 3. IPV values are based on geographical ranges along the latest RPLI revision.
- 4. With IP000 of Freshwater West Beach in the UK to the Baginbun Beach in Ireland.
- 5. Existing features or obstructions are derived from the latest cartographic drawing.
- 5. Bathymetric data has been acquired using the following equipment:
 - VESEL
 - SURFACE POSITIONING
 - GYRO
 - MRU
 - SURFACE POSITIONING
 - ROV
 - INS, IKG
 - ROCK & M&H
 - DOPPER VELOCITY SENSOR
 - PRESSURE SENSOR
 - SOUNDS VELOCITY SENSOR
 - MULTIBeam SONAR
 - CTD PROBE
 - IPV SIMON STEVIN
 - NAVCOM C-NAV 3050 (PPP)
 - INSULTE OCEANS SURFACE
 - INSULTE OCEANS SURFACE
 - KONSDÖBER HIPAP 501
 - SAD PRODY
 - INSULTE ROVINS
 - INSULTE IMAGIS
 - TELEPHONE RD WHN 1200-UG12
 - TRITEX SK 70140
 - VALEPORT MINNAV
 - TELEPHONE RESON SEABAT 8125
 - VALEPORT MAGAS SVR2
- 6. DTM Grid size is 0.30m
- 7. Survey has been executed on 29/07/2004.

LEGEND

PLAN VIEWS

5727500mN — — — — — PROJECTION GRID (COORDINATES IN METRES)

T&P CABLE ROUTE (RPL_REV14)

CROSS PROFILE POSITION

AS-TRENCHED / AS-FOUND CABLE

EXISTING CABLES

SUBSEA ROCK BERM DESIGN LIMITS

SUBSEA ROCK BERM DESIGN

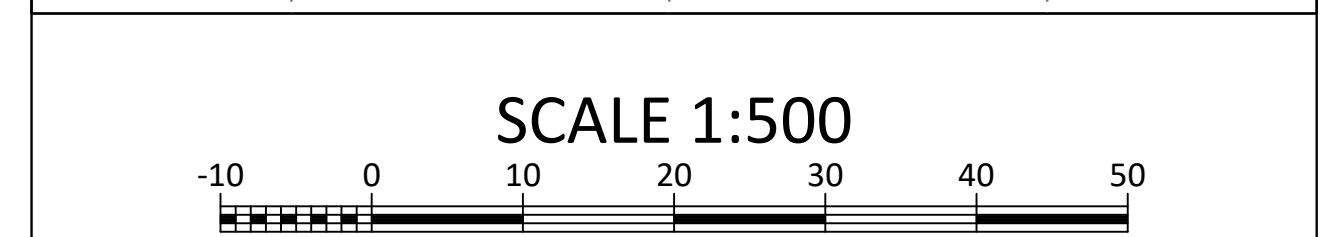
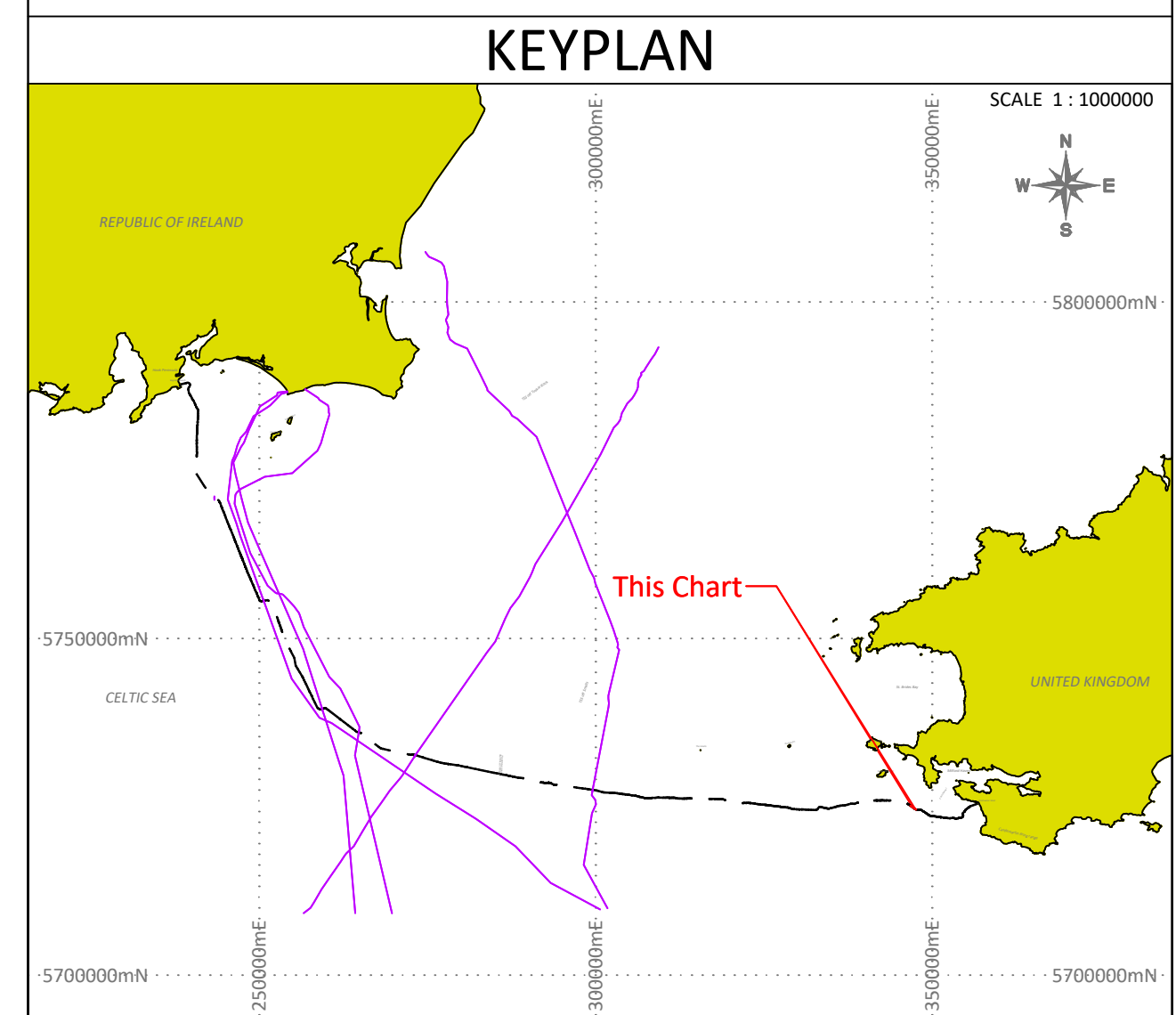
BATHYMETRIC CONTOURS AT 1.0m INTERVAL (ANNOTATED)

BATHYMETRIC CONTOURS AT 0.20m INTERVAL

CROSS PROFILES

LONGITUDINAL PROFILES

		PRE ROCK INSTALLATION SURVEY
		POST FILTER ROCK INSTALLATION SURVEY
		POST ARMOUR ROCK INSTALLATION SURVEY
		SUBSEA ROCK BERM DESIGN LIMITS
		SUBSEA ROCK BERM DESIGN
		SUBSEA ROCK BERM TOLERANCE
		AS-TRENCHED / AS-FOUND CABLE



CLIENT 

CONTRACTOR



**SUMITOMO
ELECTRIC**

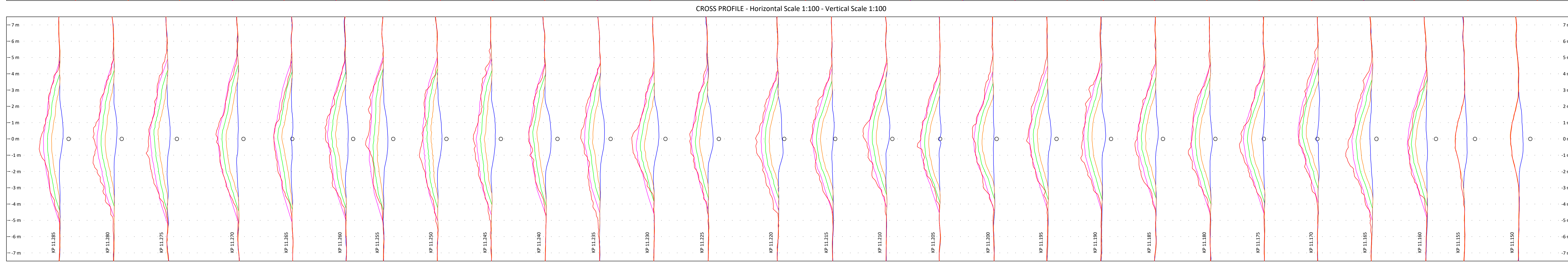
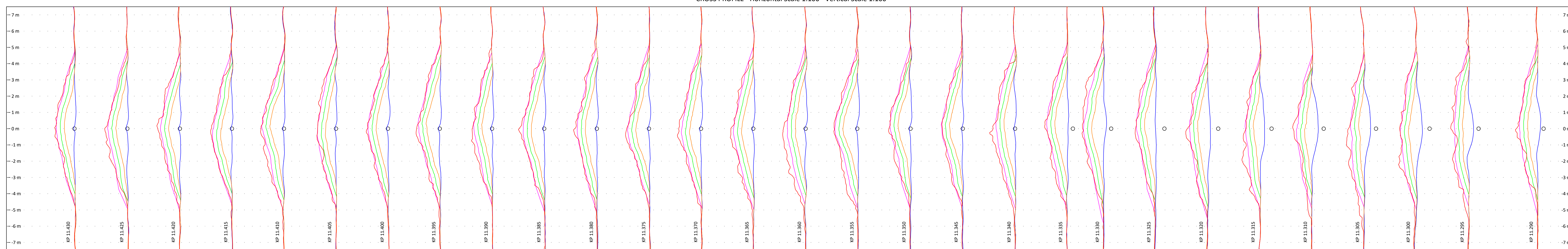
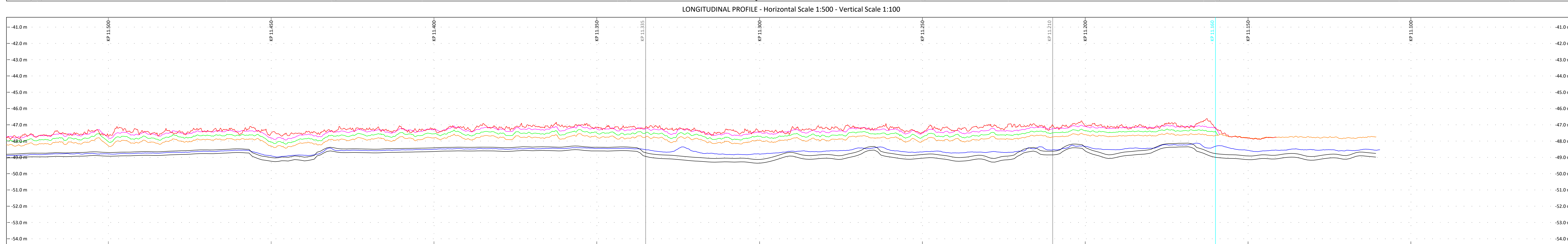
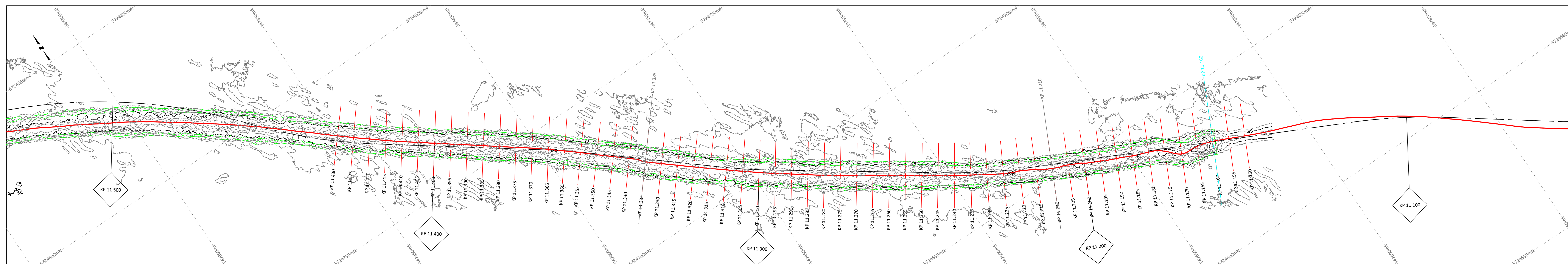
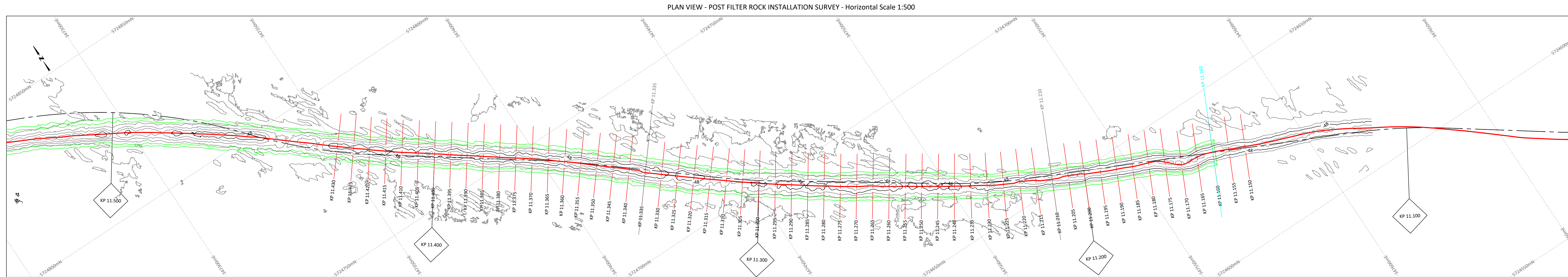
SUBCONTRACTOR

 **Jan De Nul**
Luxembourg SA

PROJECT	GREENLINK INTERCONNECTOR PROJECT SUB-CONTRACT FOR OFFSHORE HVDC INSTALLATION AND BURIAL
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TITLE	AS BUILT ROCK INSTALLATION ARMOUR LAYER KP 11.435 - KP 11.715
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[illegible]



GEODETIC PARAMETERS	
DATUM	WGS 1984
ELLIPSOID (SPHEROID)	WGS84 GEODETIC SYSTEM 1984
SEMI-MAJOR AXIS (M)	6378137.000 m
SEMI-MINOR AXIS	6356752.314 m
INVERSE FLATTENING (1/F)	298.257223563000 m
PROJECTION PARAMETERS:	
PROJECTION	UNIVERSAL TRANSVERSE MERCATOR NORTH ORIENTATED
ZONE	30N
LATITUDE OF ORIGIN	0°00'00.000" N
LONGITUDE OF ORIGIN	0°00'00.000" W
SCALE FACTOR	0.9996
FALSE EASTING	500.000m
FALSE NORTHING	0m
UNITS	INTERNATIONAL METRES, DEGREES

NOTES

- 1. All co-ordinates are in metres unless otherwise stated.
- 2. Heights or water depths are reduced to Lowest Astronomical Tide (LAT) using the UKHO VORM model.
- 3. GP values are based on geographical ranges along the latest RPL revision.
- 4. With RPO 00 of Freshwater West Beach in the UK to the Baginbun Beach in Ireland.
- 5. Existing features or obstructions are derived from the latest cartographic drawing.
- 5. Bathymetric data has been acquired using the following equipment:
 - VESEL FPV SIMON STEVIN
 - SURFACE POSITIONING NAVCOM C-NAV 3050 (PPP)
 - GYRO INSULTE OCEANS SURFACE
 - MRU INSULTE OCEANS SURFACE
 - SURFACE POSITIONING KONGBERG HIPAP 501
 - ROV SMO PRODY
 - INS INSULTE ROVINS
 - INSULTE INSULTE IMAGIS
 - DOPPER VELOCITY SENSOR TELEPHONE RD WHN 1200-UG12
 - PRESSURE SENSOR TRITECH SK 70140
 - SOUNDS VELOCITY SENSOR VALEPORT MINNAV
 - MULTIBeam SONAR TELEPHONE RESON SEABAT B125
 - CTD PROBE VALEPORT MARGA SVR2
- 6. DTM Grid size is 0.30m
- 7. Survey has been executed on 29/07/2004.

LEGEND

PLAN VIEWS

5727500mE ———— PROJECTION GRID (COORDINATES IN METRES)

TWP CABLE ROUTE (RPL_REV14)

CROSS PROFILE POSITION

AS-TRENCHED / AS-FOUND CABLE

EXISTING CABLES

SUBSEA ROCK BERM DESIGN LIMITS

SUBSEA ROCK BERM DESIGN

BATHYMETRIC CONTOURS AT 1.0m INTERVAL (ANNOTATED)

BATHYMETRIC CONTOURS AT 0.20m INTERVAL

CROSS PROFILES		LONGITUDINAL PROFILES
	PRE ROCK INSTALLATION SURVEY	
	POST FILTER ROCK INSTALLATION SURVEY	
	POST ARMOUR ROCK INSTALLATION SURVEY	
	SURSEA ROCK BERM DESIGN LIMITS	
	SURSEA ROCK BERM DESIGN	
	SURSEA ROCK BERM TOLERANCE	
	AS-TRENCHED / AS-FOUND CABLE	



CLIENT



CONTRACTOR  **SUMITOMO
ELECTRIC**

SUBCONTRACTOR

 **Jan De Nul**
Luxembourg SA

PROJECT	GREENLINK INTERCONNECTOR PROJECT SUB-CONTRACT FOR OFFSHORE HVDC INSTALLATION AND BURIAL
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TITLE	AS BUILT ROCK INSTALLATION ARMOUR LAYER KP 11.160 - KP 11.430
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[illegible]