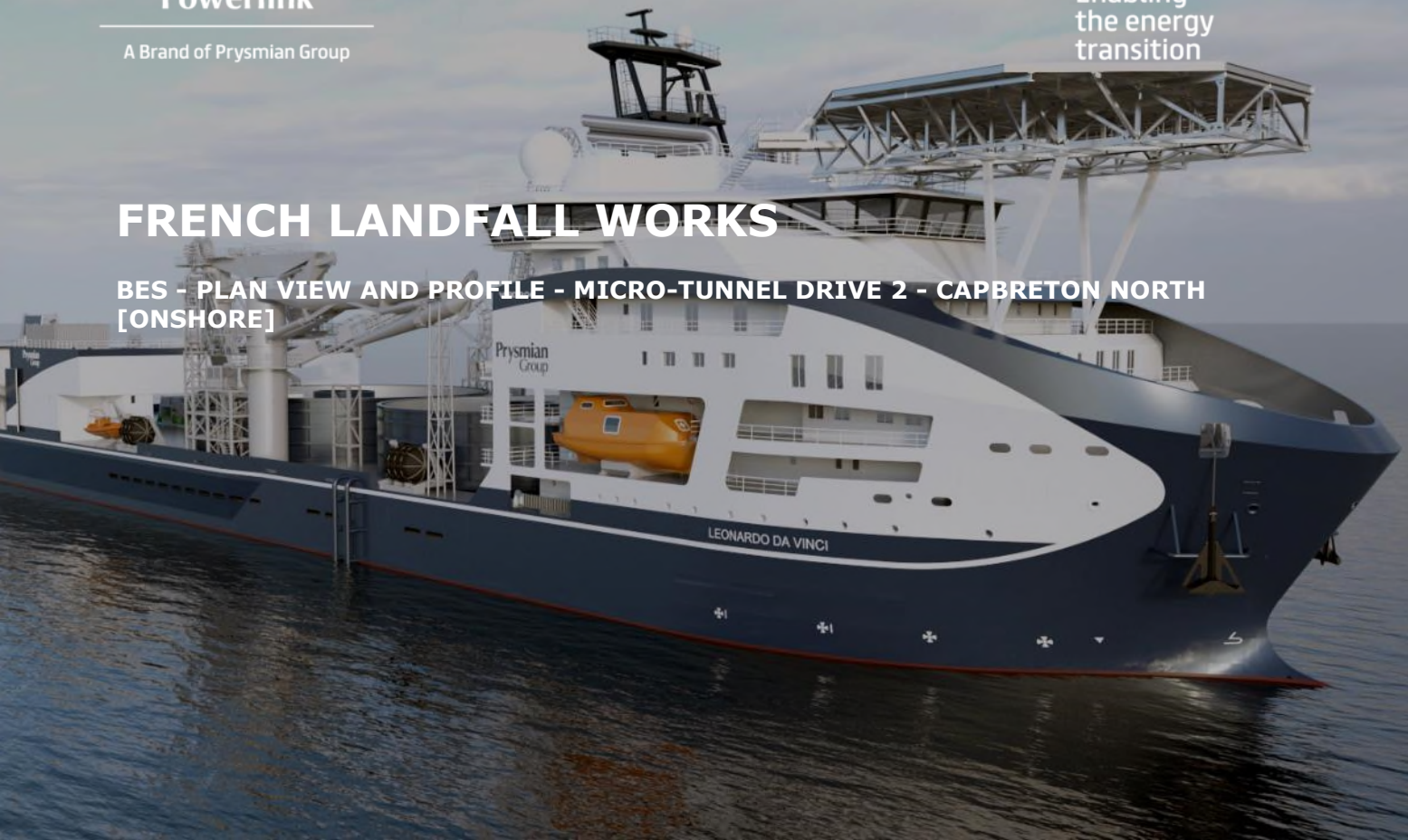


FRENCH LANDFALL WORKS

BES - PLAN VIEW AND PROFILE - MICRO-TUNNEL DRIVE 2 - CABRETON NORTH
[ONSHORE]



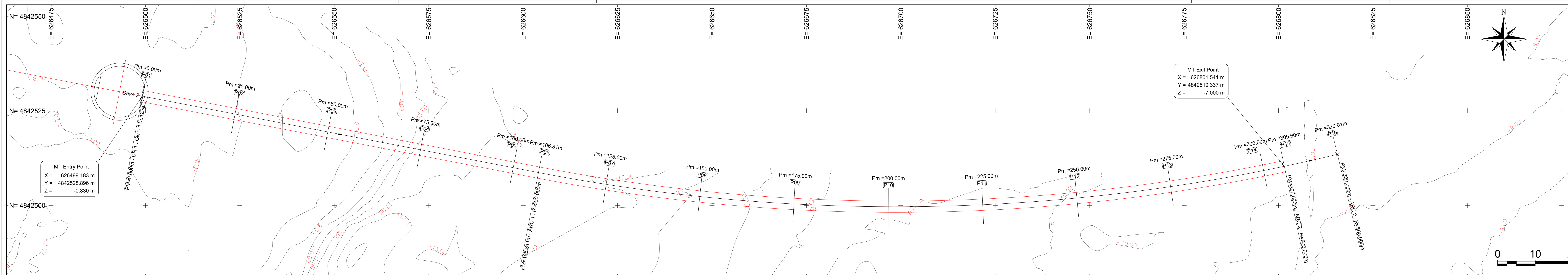
PROJECT Biscay Gulf Project

CUSTOMER INELFE

Customer Reference tbc
Prysmian Reference PPL18035-ID-DWG-006
Document Version v00
Document Status IFR

Document Control Log

Version	Date	Issued by	Verified by	Approved by
00	21.08.2023	BESSAC	M. Sacchi / G. Cipriano	V. Acquaotta



MT Entry Point
 X = 626499.183 m
 Y = 4842528.896 m
 Z = -0.830 m

MT Exit Point
 X = 626801.541 m
 Y = 4842510.337 m
 Z = -7.000 m

REFERENCE DOCUMENT	
NUMBER	TITLE
PPL18035-ID-DWG-004	BES - Construction Drawings - Concrete Jacking Pipes & Inter-jacking Stations Ø2500/3000
PPL18035-ID-DWG-010	BES - Site Setup - Micro-tunnel activities Drive 2 - Capbreton North [ONSHORE]
PPL18035-ID-DWG-014	BES - Construction Drawing - Starting Shaft P2 - Capbreton North
PPL18035-ID-PRO-006	BES - Work Procedure - Excavation of a Micro-tunnel Drive 2 - Seinnoise
PPL18035-ID-TEC-001	BES - Assumptions and Design Principles

topo-bathymetric origin data :	
VUE EN PLAN	Etudes topographiques "Les Casernes" Biscay Gulf Project
Vue en plan	Vue en plan

List of abbreviation			
HAT	Highest Astronomical Tide	E	Easting
MSL	Mean Sea Level	N	Northing
LAT	Lowest Astronomical Tide	PM	Metric Point
CD	Chart Datum (Hydrographic Zero)	Bea	Bearing
MT	Micro-Tunnel	CR	Curved Radius
		S	Straight
		L	Slope
			Length

Vertical Datum Reference (referred to Capbreton, France)			
Title	Height to CD (m)	Height to ELL (m)	Height to IGLD (m)
HAT (Highest Astronomical Tide)	4.79 m	4.79 m	4.79 m
MSL (Mean Sea Level)	2.41 m	2.41 m	2.41 m
LAT (Lowest Astronomical Tide)	0.03 m	0.03 m	0.03 m
CD (Chart Datum/Hydrographic Zero)	0.00 m	0.00 m	0.00 m

Geodetic Parameters	
DATUM	: WGS84
PROJECTION	: UTM30N (EPSG 32630)
FALSE EASTING	: 500000
FALSE NORTHING	: 0
CENTRAL MERIDIAN	: 3° E
SCALE FACTOR	: 0.9996

NO	DATE	DESCRIPTION	BY	CHECKED	APPROVED
01	18/06/2023	Initial submission - Issued for Approval	M. Bessac	H. Eftage	J. Etienne
02	07/06/2023	Initial submission - Issued for Approval	M. Bessac	H. Eftage	J. Etienne

Client's logo and business name: **Prismian Group**

Contractor's logo and business name: **BESSAC**, **HDI**, **ETMF**

Client's Document ID: PPL18035-ID-DWG-004

Contractor's Document ID: BES-18035-CAN-004-004-0127

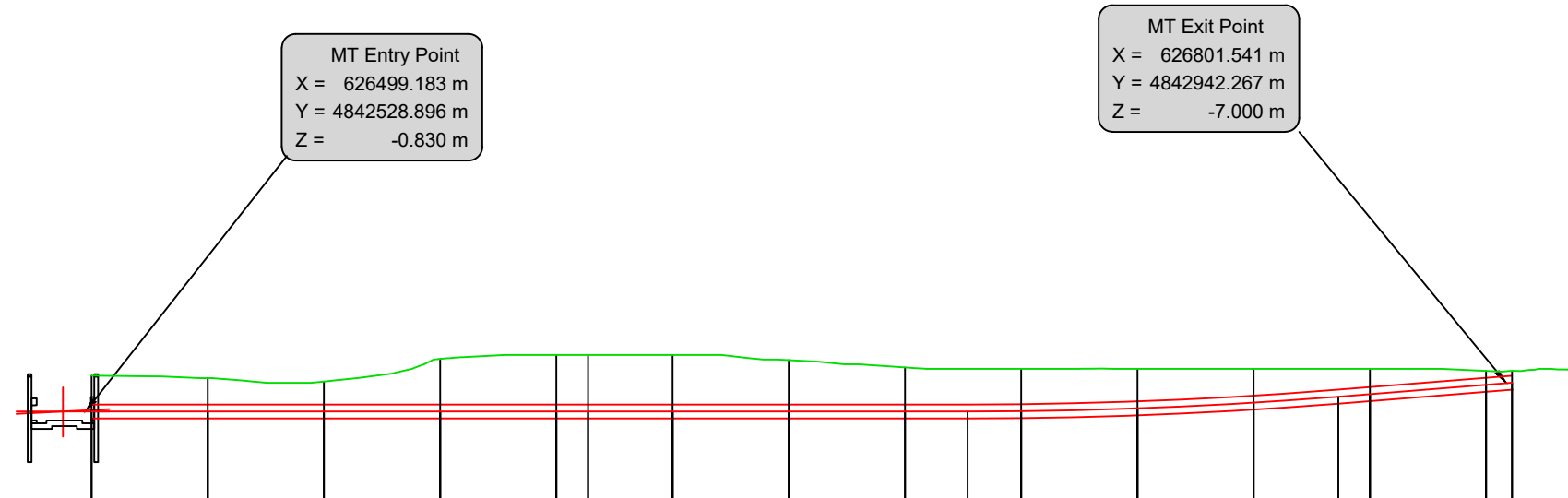
Project Name: **BES - Plan View and Profile - Micro-tunnel Drive 2 - Capbreton North [ONSHORE]**

Page 1 of 2

Axis : Drive 2 - Seignosse

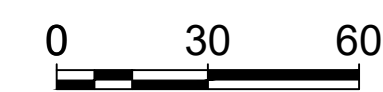
Scale in X : 1/1000

Scale in Y : 1/1000



Comparison plan : -20.00 m

Cross-section N°	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16
Ground altitudes	-8.54	-8.00	-7.28	-12.14	-13.00	-13.00	-13.00	-11.86	-10.30	-10.00	-10.00	-10.00	-10.00	-9.56	-9.58	-9.74
MT Axis altitudes	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.90	-1.50	-2.72	-4.01	-4.56	-6.56
Ground cover (MT Axis to ground level)	7.71	7.17	6.45	11.31	12.17	12.17	12.17	11.03	9.47	9.10	8.50	7.28	5.44	3.00	2.58	
Chaînage	0.00	25.00	50.00	75.00	100.00	106.81	125.00	150.00	175.00	188.48	200.00	225.00	250.00	268.23	275.00	300.00
Chaînage 3D	0.00	25.00	50.00	75.00	100.00	106.81	125.00	150.00	175.00	188.48	200.00	225.01	250.04	268.31	275.11	300.19
MT Axis slopes and ramps	SLOPE L = 188.48 m S = 0.00 %										CR = 1000.00 L = 79.75		RAMP L = 37.38 m S = 8.00 %			
Straight and curved alignments	STRAIGHT L = 106.81 m						ARC R = 500.00 m L = 198.79 m									



REFERENCE DOCUMENT

NUMBER	TITLE
PPL18035-ID-DWG-004	BES - Construction Drawings - Concrete Jacking Pipes & Inter-jacking Stations Ø2500/3000
PPL18035-ID-DWG-010	BES - Site Setup - Micro-tunnel activities Drive 2 - Capbreton North [ONSHORE]
PPL18035-ID-DWG-014	BES - Construction Drawing - Starting Shaft P2 - Capbreton North
PPL18035-ID-PRO-006	BES - Work Procedure - Excavation of a Micro-tunnel - Drive 2 - Seignosse
PPL18035-ID-TEC-001	BES - Assumptions and Design Principles

topo-bathymetric origin data :

VUE EN PLAN	Etudes topographiques "Les Casernes" Biscay Gulf Project Vue en plan
-------------	--

List of abbreviation

HAT	Highest Astronomical Tide	E	Easting
		N	Northing
MSL	Mean Sea Level	PM	Metric Point
LAT	Lowest Astronomical Tide	Bea	Bearing
		CR	Curved Radius
CD	Chart Datum (Hydrographic Zero)	ST	STraight
		S	Slope
MT	Micro-Tunnel	L	Length

Vertical Datum Reference (referred to Capbreton, France)

Tide	Height to CD (from SHOM Tables 2020)	Height to Elli (BathyElli v2.0) (from SHOM Tables 2020)	Height to IGN69 (natura) Géographique Nationale (from SHOM Tables 2020)
HAT (Highest Astronomical Tide)	4.79 m		
MSL (Mean Sea Level)	2.41 m		
LAT (Lowest Astronomical Tide)	0.03 m		
CD (Chart Datum/Hydrographic Zero)	0.00 m	46.28 m	-2.094 m

Geodetic Parameters

DATUM	: WGS84	VERTICAL REFERENCE	: LAT and use positive values when describing water depths
PROJECTION	: UTM30N (EPSG 32630)		
FALSE EASTING	: 500000		
FALSE NORTHING	: 0		
CENTRAL MERIDIAN	: 3° E		
SCALE FACTOR	: 0.9996		

All dimensions and coordinates are in meters unless noted otherwise

v00-01	18/08/2023	Second submission - Issued for Approval	Silal El KHARROUBI	Mathieu GRISELAIN				
v00-00	07/08/2023	Initial submission - Issued for Approval	Silal El KHARROUBI	Mathieu GRISELAIN	First name LAST NAME	First name LAST NAME	First name LAST NAME	First name LAST NAME
Revision Number	Date	Description	Contractor Prepared	Contractor Approved	PPL Verified	PPL Approved	INELFE Verified	INELFE Approved

Employer's logo and business name: **inelfe**

Client's logo and business name: **Prysmian Group**

Contractor's logos and business names: **BESSAC**, **HDI**, **ETMF**

Employer's Document ID (if applicable): #####

Client's Document ID: PPL18035-ID-DWG-006

Contractor's Document Title:	BES - Plan View and Profile - Micro-tunnel Drive 2 - Capbreton North [ONSHORE]	Contractor's Document ID:	BOB-BES-CAN-CON-DWG-0127
		Sheets of Sheets:	Page 2 of 2