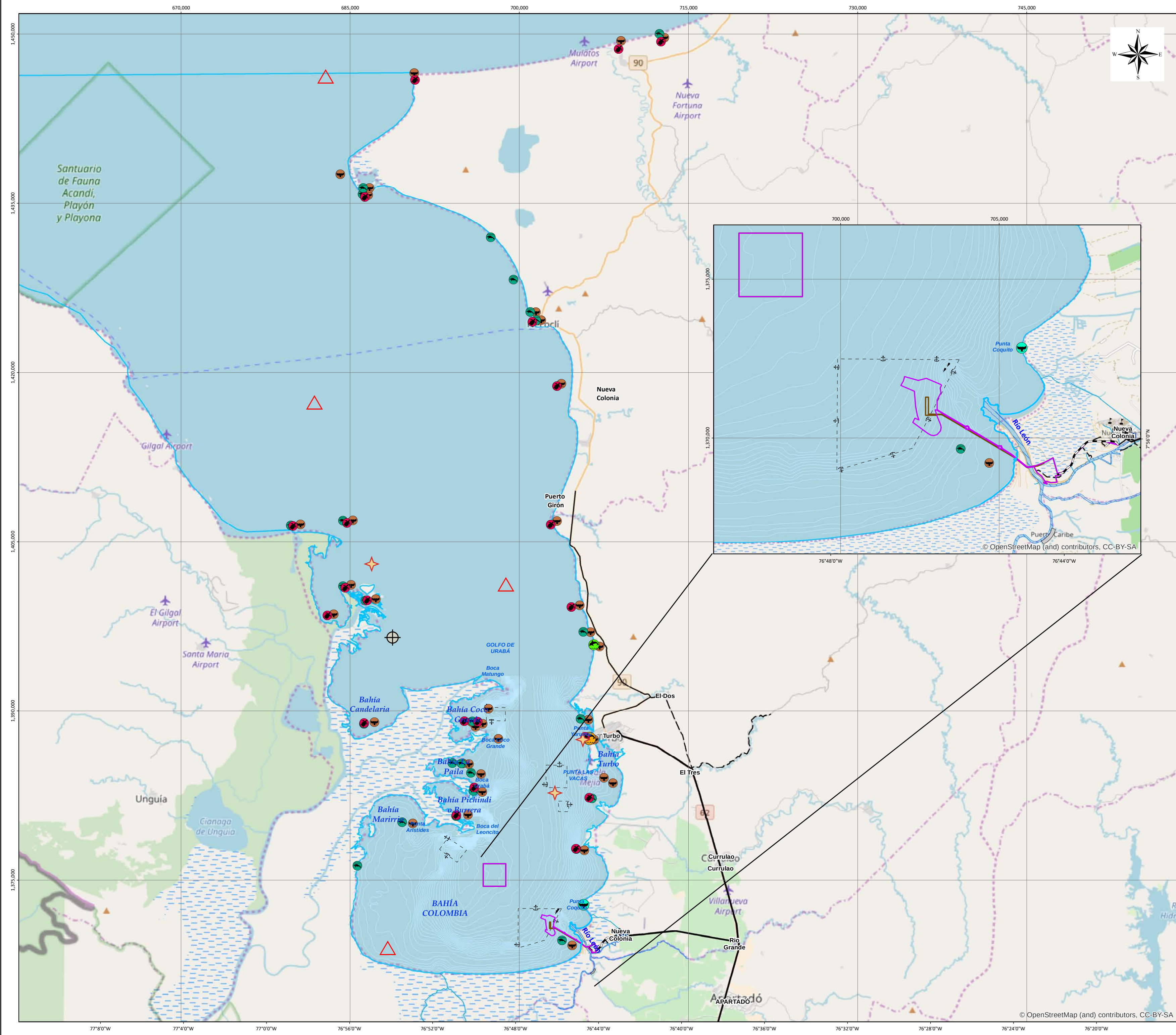




LEYENDA TEMÁTICA

CALADEROS Y MONITOREOS DE PESCA

Área de Fondeo

PROYECTO

Área Licenciada

Área Proyecto

AVISTAMIENTOS

Tortugas

Sotalia Guianensis

Tursiops Truncatus

Avistamiento Manatíes

Avistamiento Cetáceos

Balenopteridae

Omacha

Delphinidae

Sotalia Guianensis

Tursiops Truncatus

CONVENCIONES GENERALES

Boya

Línea de Costa

Isóbata

Drenaje Sencillo

Manglar

Otros_Cuerpos_Agua

SISTEMA DE COORDENADAS

Sistema: Magna Sirgas Bogotá Norte: 1.000.000 m Latitud: 4° 35' 46,3215" Proyección: Transverse Mercator Este: 1.000.000 m Longitud: -74° 04' 39,0285"

FUENTE BASE CARTOGRÁFICA

- EDIFICA Colombia LTDA. Levantamiento topográfico a partir de restitución fotogramétrica. Escala 1:400. Bogotá, 2014.
- Dirección General Marítima- Armada de Colombia (DIMAR). Carta Náutica COL 625 4ta edición. Escala 1:35.000. DIMAR, 2013.
- Alcaldía Municipal de Turbo. Revisión y Ajuste del Plan de Ordenamiento Territorial. Cartografía básica escala 1:50.000. Turbo, 2012.

FUENTE TEMÁTICA

- Invemar
- Avistamiento Reporte Social
- Avistamiento OMACHA

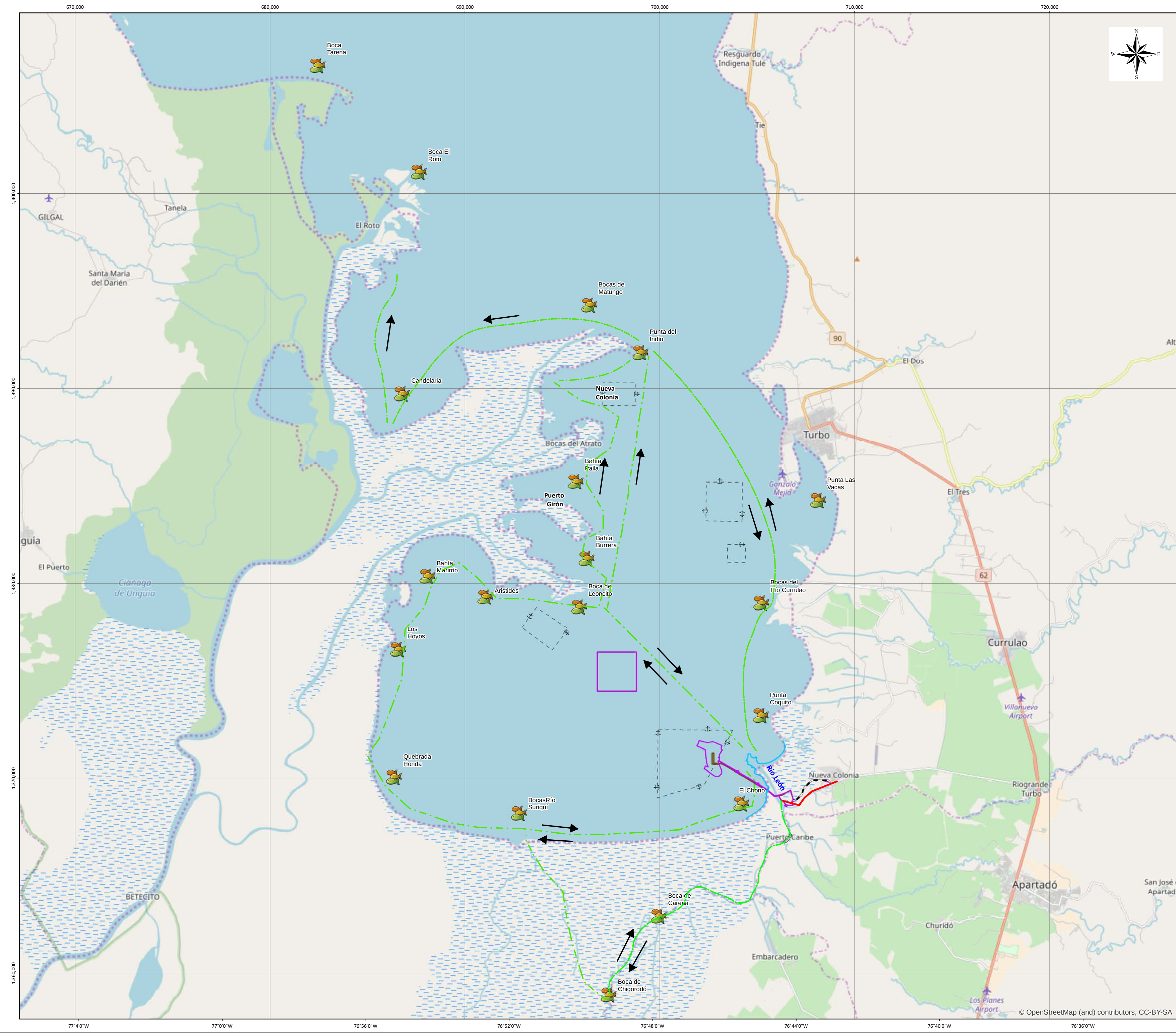


CONSTRUCCIÓN Y OPERACIÓN DE UN TERMINAL PORTUARIO DE GRÁNELES SÓLIDOS EN EL MUNICIPIO DE TURBO

AVISTAMIENTOS

0 2,000 4,000 6,000 8,000 m

ELABORÓ: AQUA & TERRA	REVISÓ: AQUA & TERRA	APROBÓ: AQUA & TERRA
ESCALA: 1:225,000	FECHA: 17/09/2018	CÓDIGO: PTO_ANT_AV_01
ARCHIVO: PTO_ANT_AVISTAMIENTOS.mxd	ORIGEN: BOGOTÁ	MAPA Nº: 1 / 1



LEYENDA TEMÁTICA

- PROYECTO**
- Área Licenciada
 - Área Proyecto
- CALADEROS Y MONITOREOS DE PESCA**
- Caladeros de Pesca
 - Monitoreo de pesca
 - Área de Fondeo

CONVENCIONES GENERALES

SISTEMA DE COORDENADAS

Sistema: Magna Sirgas Bogotá Norte: 1.000.000 m Latitud: 4° 35' 46,3215" Proyección: Transverse Mercator Este: 1.000.000 m Longitud: -74° 04' 39,0285"

FUENTE BASE CARTOGRÁFICA

- EDIFICA Colombia LTDA. Levantamiento topográfico a partir de restitución fotogramétrica. Escala 1:400. Bogotá, 2014.
- Dirección General Marítima- Armada de Colombia (DIMAR). Carta Náutica COL 625 4ta edición. Escala 1:35.000. DIMAR, 2013.
- Alcaldía Municipal de Turbo. Revisión y Ajuste del Plan de Ordenamiento Territorial. Cartografía básica escala 1:50.000. Turbo, 2012.

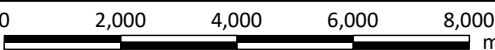
FUENTE TEMÁTICA

- Invemar

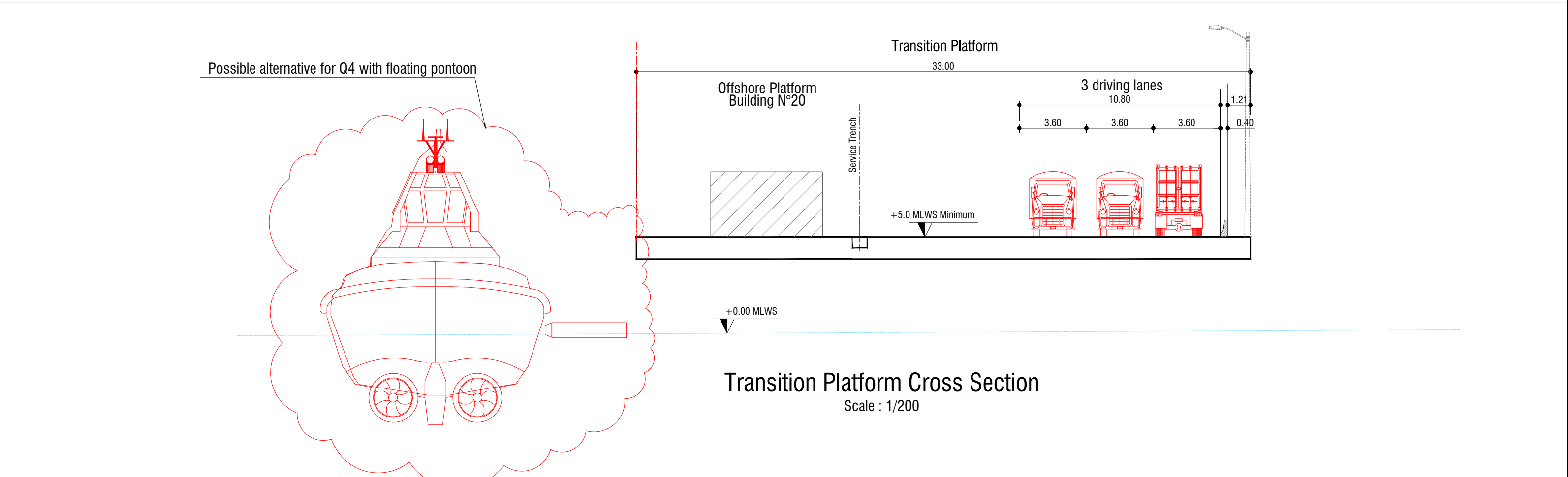
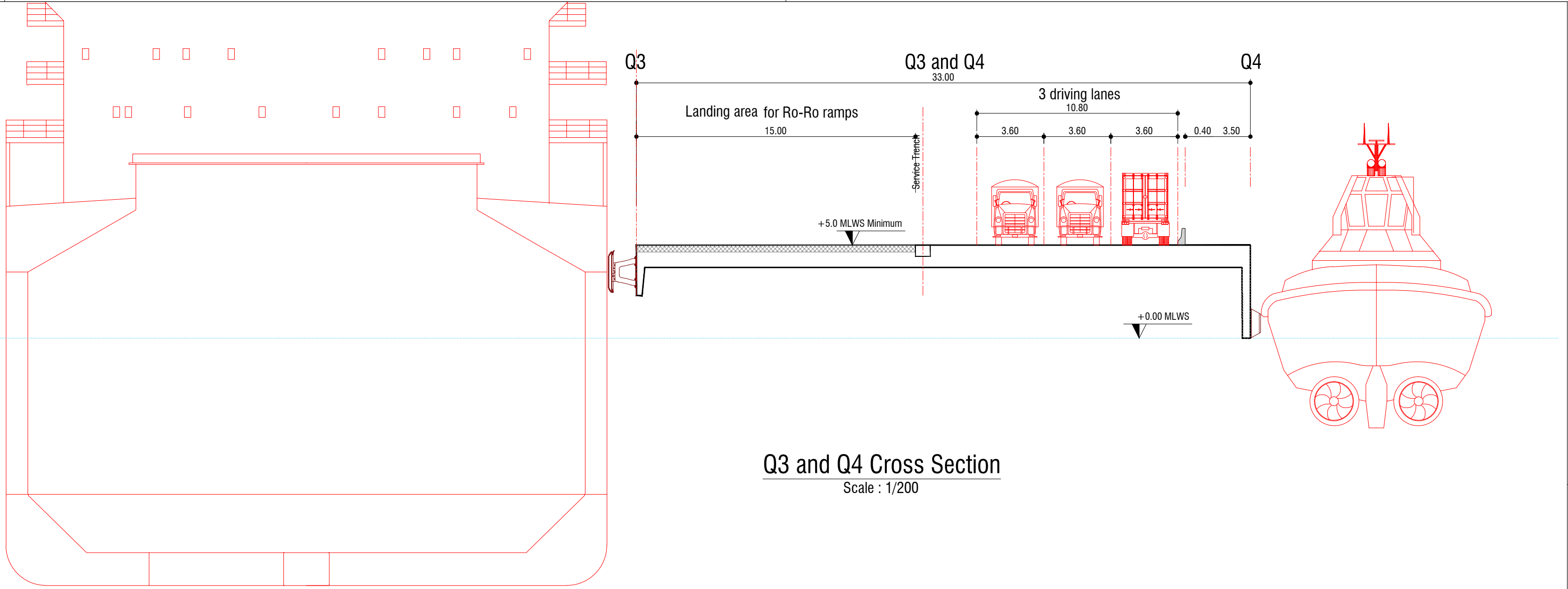
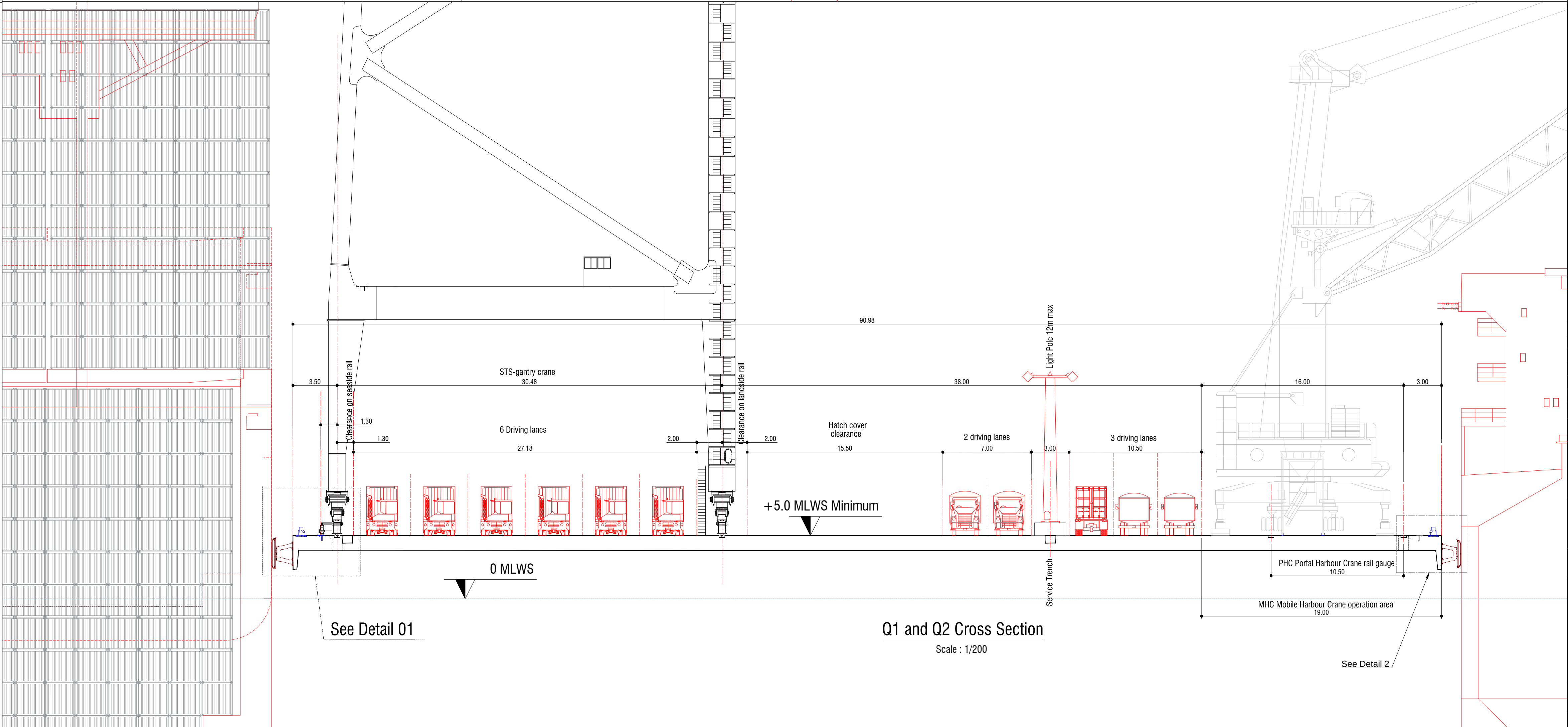
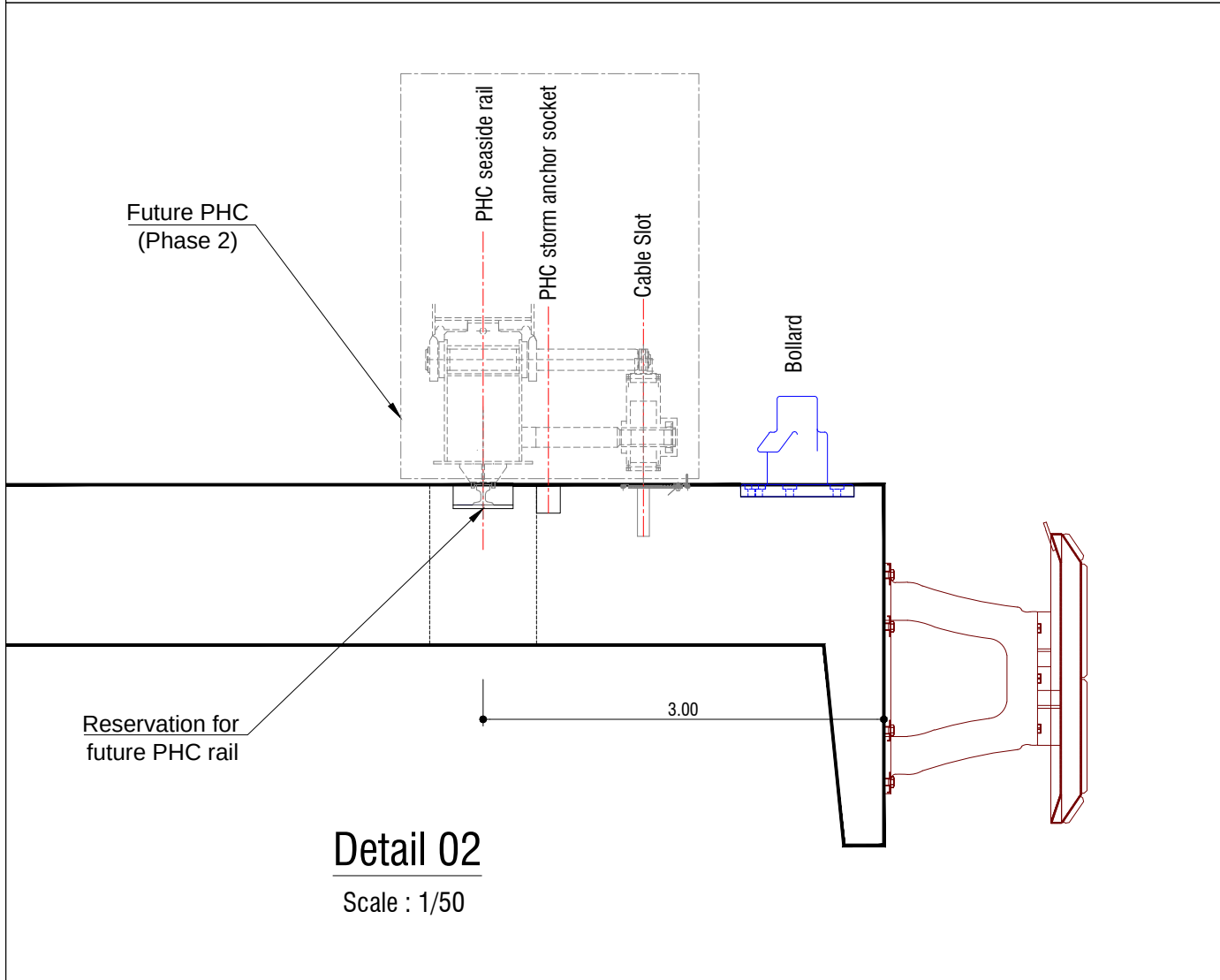
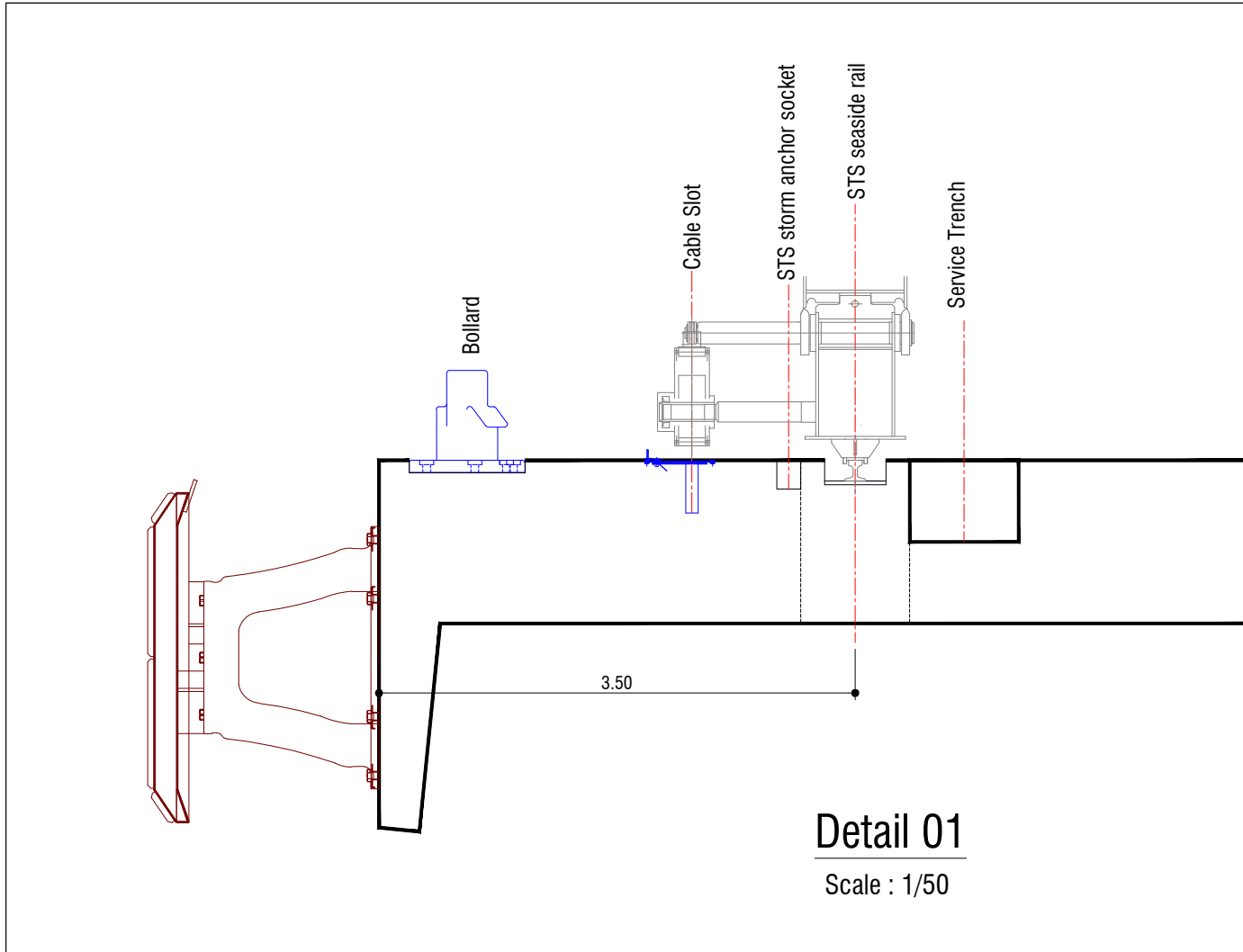


CONSTRUCCIÓN Y OPERACIÓN DE UN TERMINAL PORTUARIO DE GRÁNELES SÓLIDOS EN EL MUNICIPIO DE TURBO

RUTAS DE PESCA



ELABORÓ: AQUA & TERRA	REVISÓ: AQUA & TERRA	APROBÓ: AQUA & TERRA
ESCALA: 1:130,000	FECHA: 14/09/2018	CÓDIGO: PTO_ANT_RP_01
ARCHIVO: PTO_ANT_RUTA_EM.mxd	ORIGEN: BOGOTÁ	MAPA Nº: 1 / 1



DECODE

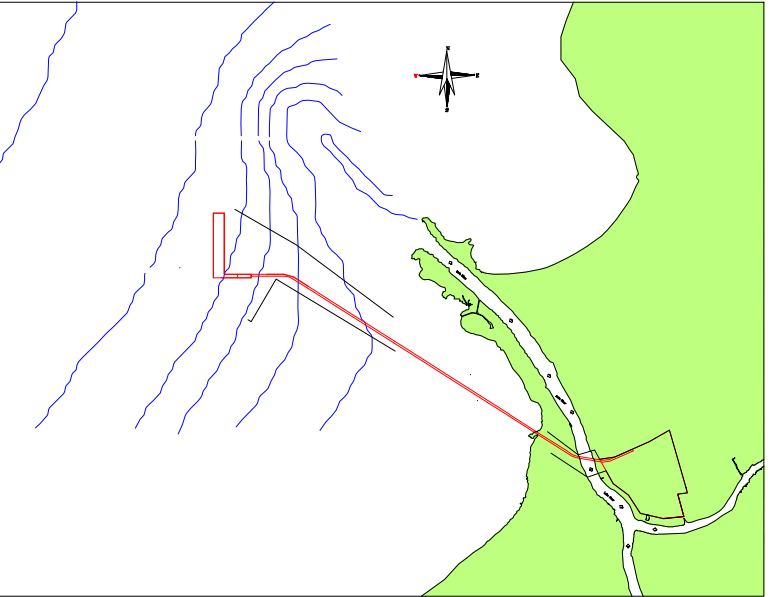
NOTES

- All units are in meter unless stated otherwise
- The levels presented refer to MLWS
- Dimensions shall be considered as minimal dimensions only
- Support and arrangement for lightpole to be determined by the Contractor
- Slab thickness is not contractual. All structural and foundation members to be sized by the Contractor
- Size of the building N°20 is not contractual. The layout of buildings and utilities on the Transition Platform is for information only and can be adjusted by the Contractor.
- The tug berth on the Transition Platform shall come as an alternative to the one on Q4, and not in addition
- Final spacing between the fenders will be approved during Detailed Engineering phase.
- Final location of crane connection pits, storm anchor sockets, storm tie down lugs and of cable slot shall be confirmed during Detailed Engineering phase
- Location of the service trenches is for information only. the Contractor is allowed to propose an alternative position during Detailed Engineering Phase
- PHC rail to be installed in Phase 2 (out of Contractor's SOW)

REFERENCE DRAWINGS

Name	Revision	Date

LOCALISATION



04	25/10/17	Final updates for ER-rev03	E.B	L.M	S.B
03	11/10/17	Updates for ER-rev03	E.B	L.M	S.B
02	24/03/17	Detail of the STS connection and levels update	S.K	L.M	S.B
01	27/02/17	Notes update	S.K	L.M	S.B
00	23/02/17	First Issue	S.K	L.M	S.B
Rev.	Date	Description	Author	Checked by	Approved by



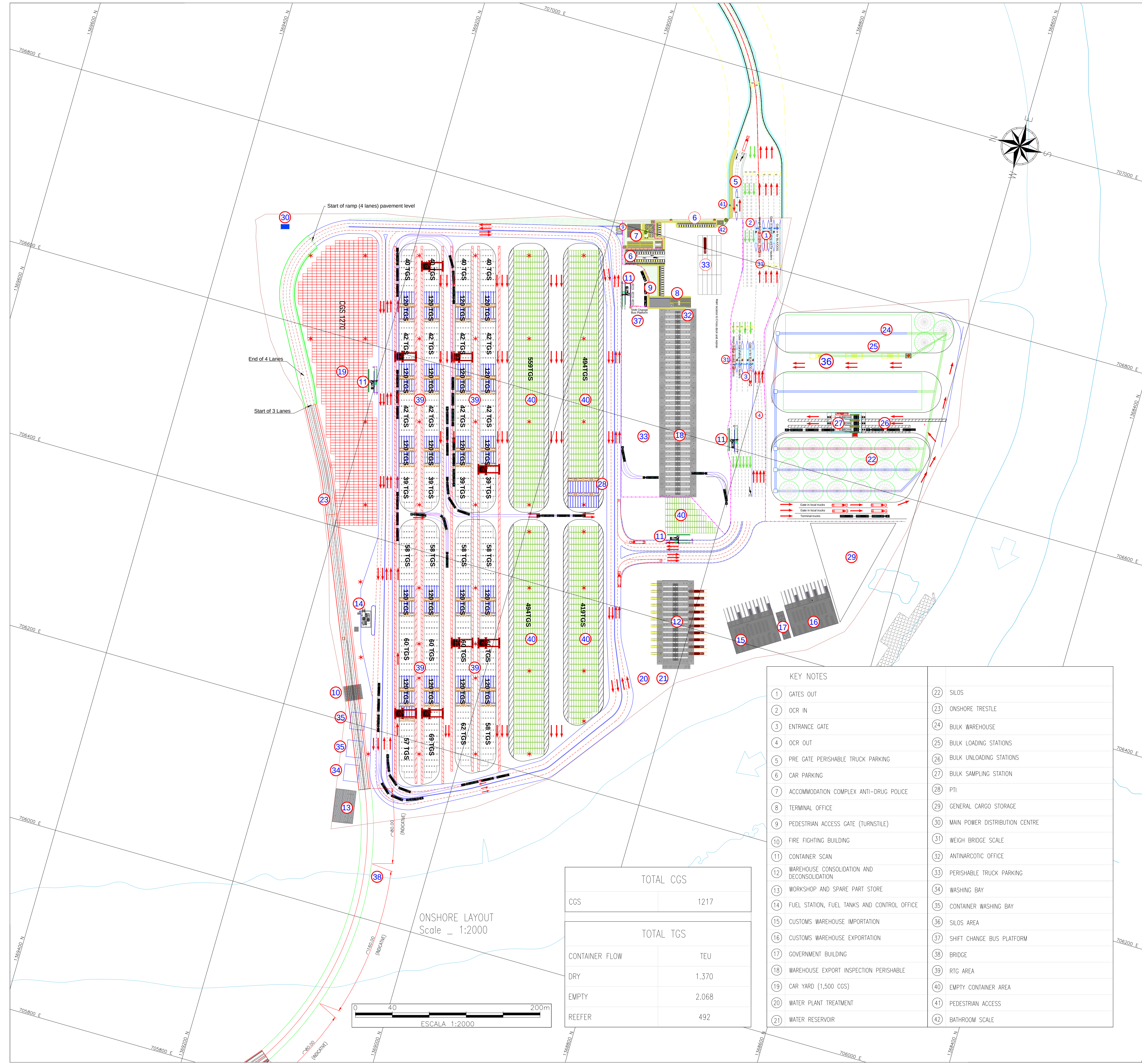
Puerto Antioquia Multipurpose Port



Employer's Requirements - Definition Drawings

Offshore Platform - Cross sections

MAMH013B	OFF	CS	001	04	25/10/17	A1	1/200
Project Nr.	Category	Doc Type	Serial n°	Revision	Date	Format	Scale



DECODE

FULL CONTAINER STACK

EMPTY CONTAINER STACK

REEFER CONTAINER STACK

ECH - EMPTY CONTAINER HANDLERS

RS - REACH STACKER

RTG - RUBBER TYRE GANTRY CRANE

TRUCK

LIGHTPOLES (PROPOSED POSITION - NOT BINDING)

RTG RUNWAY

DOCK - CONSTRUCTION WHARF

CHAINLINK FENCE

BORDER OF PROPERTY

NOTES

1. Levels are relative of every building.

2. Coordinates: SIRGAS System - Datum Colombia Bogota zone

3. Building location and circulation and road marks subject to adjustment.

4. Electrical facilities to be sized and placed by the contractor

REFERENCE DRAWINGS

Name	Revision	Date

LOCALIZATION

07	04/09/18	According ER Updates and boundary modification	E.J.A.	L.E.S	G.E.A
06	11/05/18	Update building position and buildings area	L.E.S	L.E.S	G.E.A
05	29/11/17	Remove CGS under the Onshore Trestle, modify onshore trestle ramp and modified Key Notes	J.C.V.	L.E.S	G.E.A
04	26/10/17	Update building 37 and 12	J.C.V.	L.E.S	G.E.A
03	24/10/17	Rotate all layout, increase bulk area and increased onshore trestle length	J.C.V.	L.E.S	G.E.A
02	17/03/17	Modify position of Building 17, include Dock and road reduce on south empty container yard	N.M.O	L.E.S	G.E.A
01	07/03/17	Update of drawing code	N.M.O	L.E.S	G.E.A
00	06/02/17	First Issue	S.K.	L.M.	S.B.
Rev.	Date	Description	Author	Checked by	Approved by

Puerto Antioquia

Uraba

Puerto Antioquia Multipurpose Port

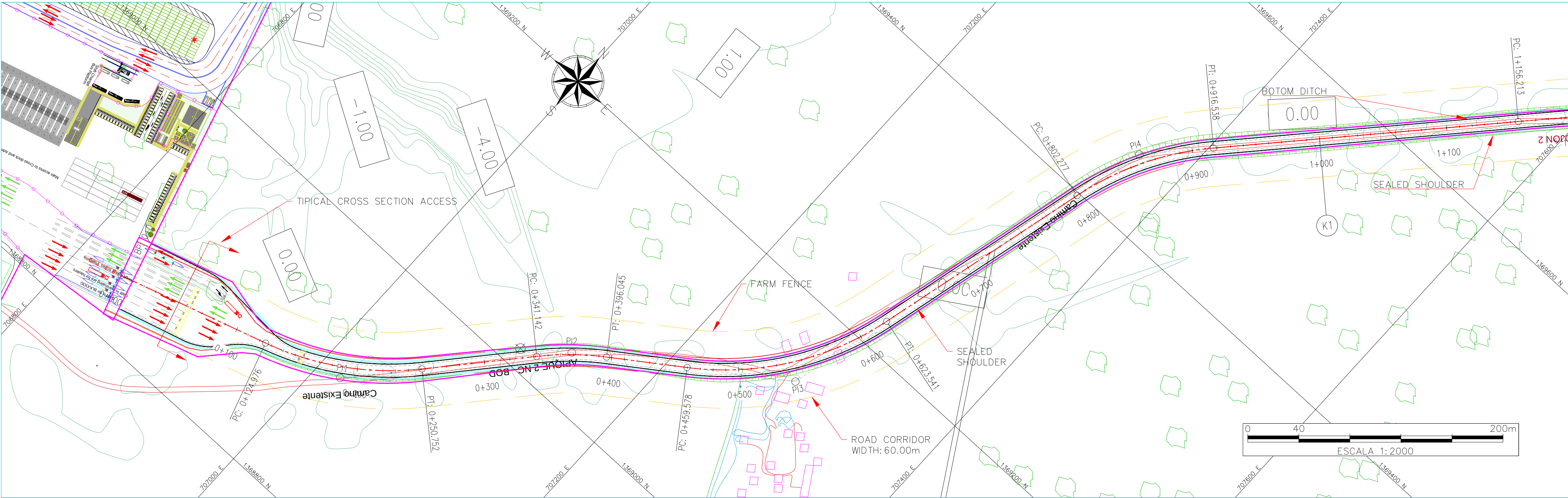
egis

aqua&terra

Employer's Requirements - Definition Drawings

ONSHORE LAYOUT

MAMH013B	ONS	GE	001	07	04/09/2018	A1	1/2000
Project Nr.	Category	Doc Type	Serial n°	Revision	Date	Format	Scale



DECODE

ROAD CORRIDOR (60.00m)

SEALED SHOULDER

DITCH

ROAD BORDER

ROAD AXIS

PI-X

PI NUMBER

LINE INTERSECTION POINT (PI)

PROPERTIES BORDER

CUT SLOPE

VIA

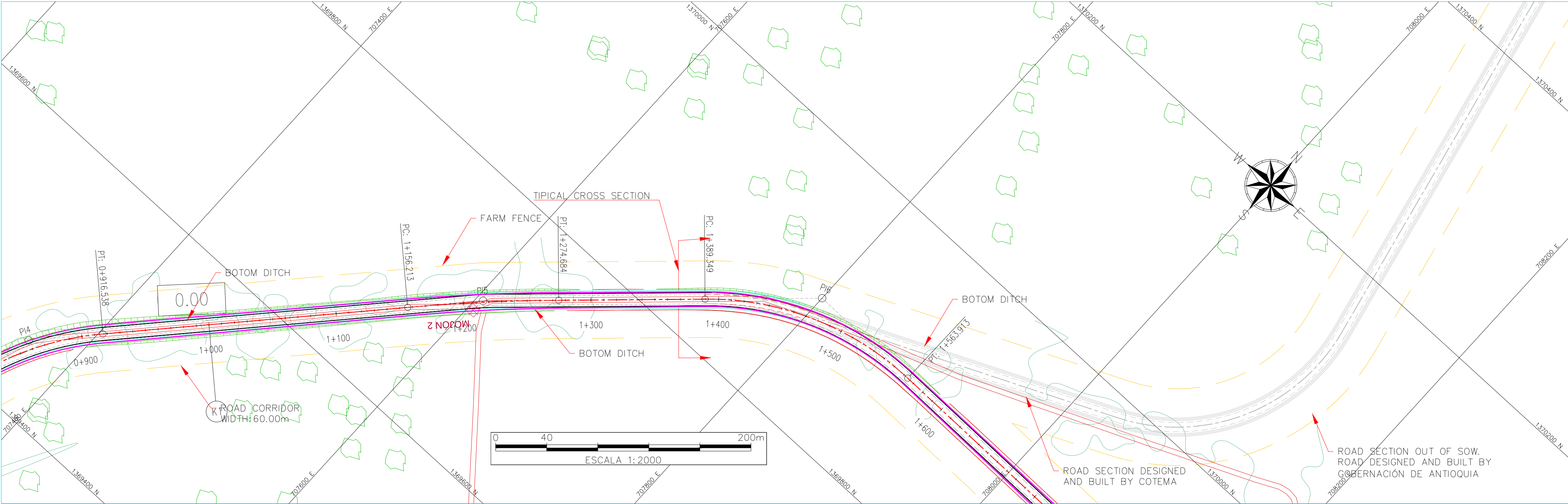
FILL SLOPE

NOTES

ALL UNITS ARE IN METERS UNLESS STATED OTHERWISE

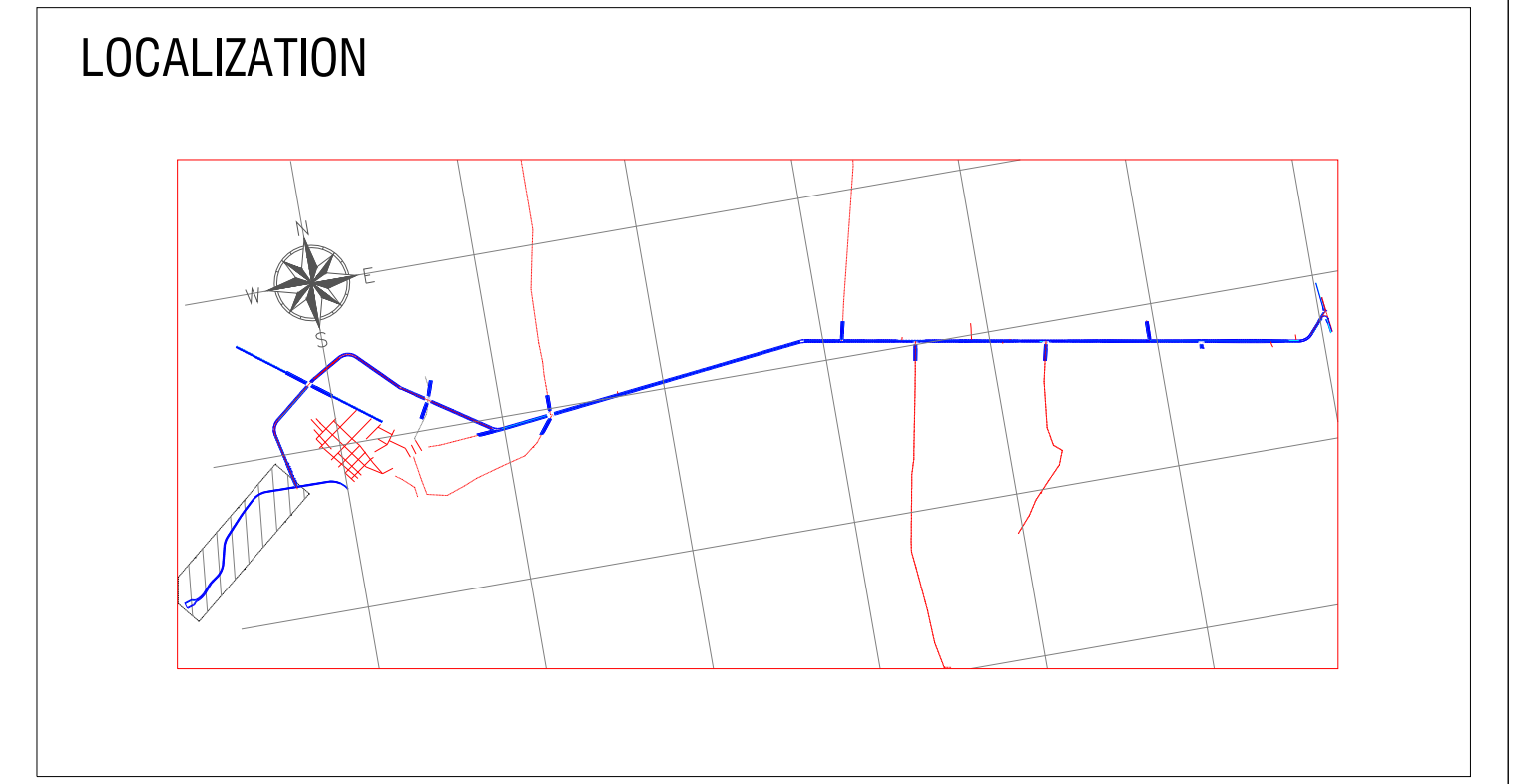
COORDINATES: SIRGAS SISTEM, DATUM: COLOMBIAN BOGOTÁ ZONE

ROAD ALIGNMENT AND SPECIFICATIONS ARE PROVIDED FOR INFORMATION ONLY.

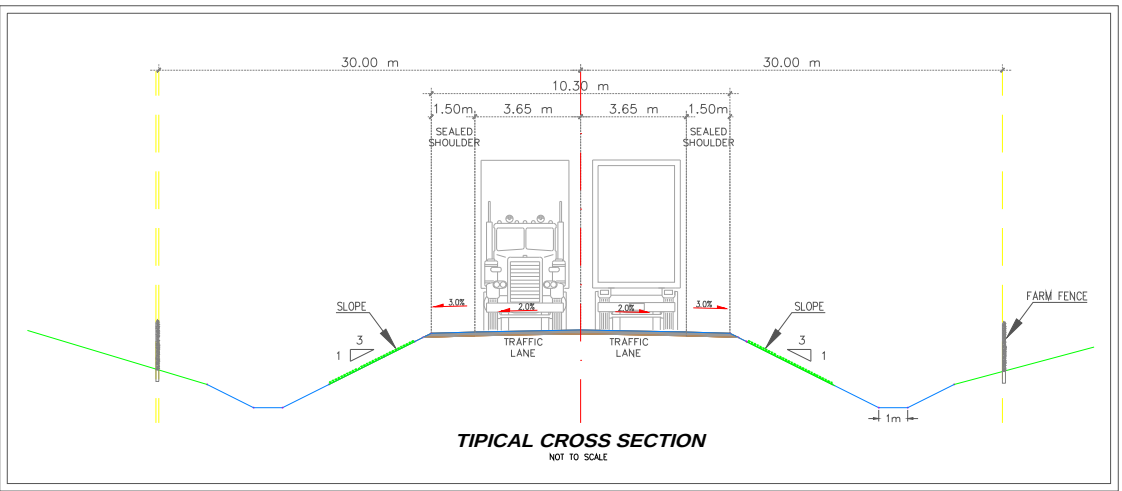
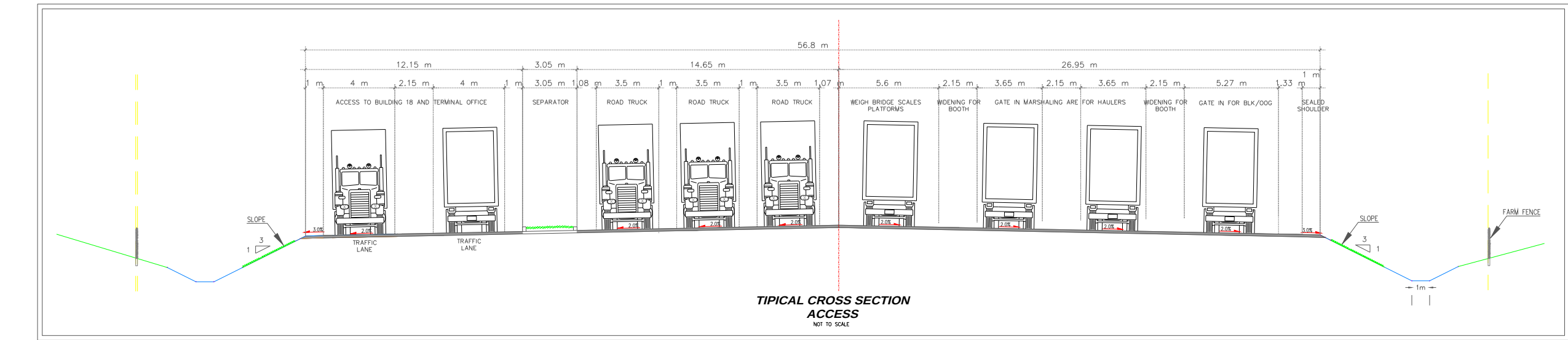


REFERENCE DRAWINGS

Name	Revision	Date



CUADRO GEOMETRIA HORIZONTAL PLANTA-1																
PI	COORDENADAS		Δ	R_c (m)	A (m)	L_e (m)	O_e	X_e (m)	Y_e (m)	ΔR (m)	$X M$ (m)	$T I$ (m)	$T c$ (m)	Δc	$L c$ (m)	$T e$ (m)
	NORTE	ESTE														
INICIO	1368846.539	706838.181	31°19'56.29"	230.000	-	-	-	-	-	-	-	-	-	-	-	-
1	1368903.005	707019.052	13°40'36.91"	230.000	-	-	-	-	-	-	-	-	-	-	-	-
2	1369040.030	707139.558	40°50'42.51"	230.000	-	-	-	-	-	-	-	-	-	-	-	-
3	1369141.395	707284.358	28°27'49.84"	230.000	-	-	-	-	-	-	-	-	-	-	-	-
4	1369454.299	707363.312	4°31'50.92"	1500.000	-	-	-	-	-	-	-	-	-	-	-	-
5	1369171.182	707605.260	54°43'50.32"	230.000	-	-	-	-	-	-	-	-	-	-	-	-
6	1369897.850	707800.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	1369888.124	708675.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-



02	11/05/18	Update note on roads	J.C.V.	D.M.M.	L.E.
01	29/09/17	Update acces road alignment and length	J.C.V.	D.M.M.	L.E.
00	06/02/17	First Issue	S.K.	L.M.	S.B.
Rev.	Date	Description	Author	Checked by	Approved by

Puerto Antioquia

Urabá

Puerto Antioquia Multipurpose Port

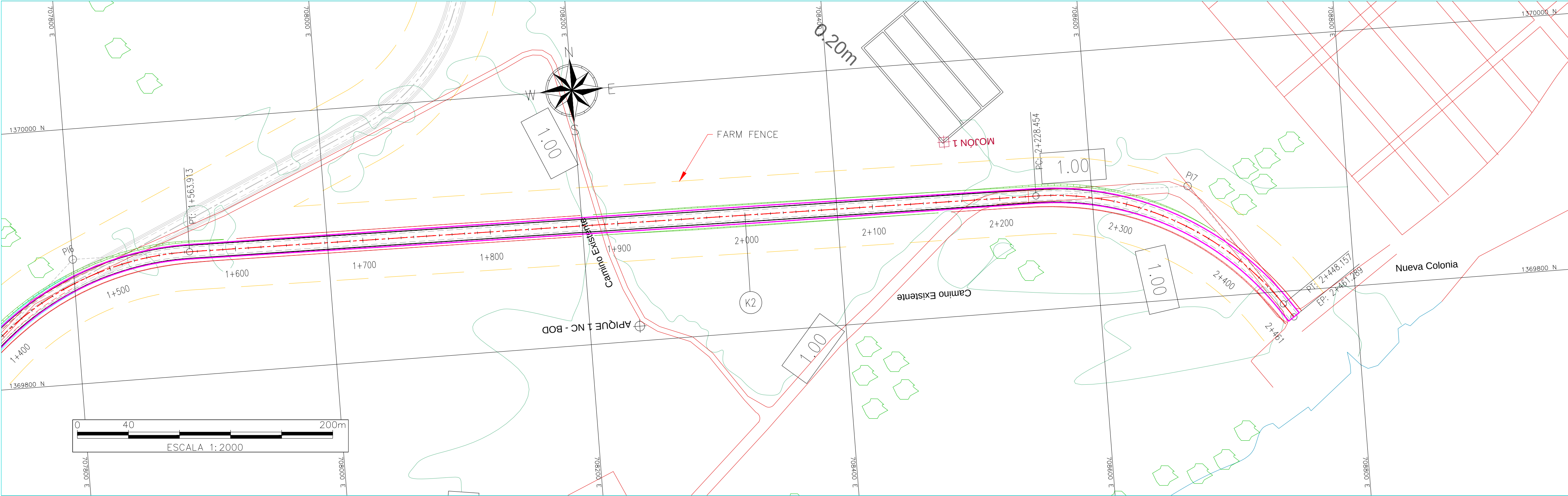
egis

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Employer's Requirements - Definition Drawings

ACCES ROAD ALIGNMENT

MAMH013B	ROA	GE	001	02	11/05/2018	A1	1/2000
Project Nr.	Category	Doc Type	Serial nA	Revision	Date	Format	Scale



DECODE

ROAD CORRIDOR (60.00m)

SEALED SHOULDER

DITCH

ROAD BORDER

ROAD AXIS

PI-X

PI NUMBER

LINE INTERSECTION POINT (PI)

PROPERTIES BORDER

CUT SLOPE

VIA

FILL SLOPE

750

NOTES

- ALL UNITS ARE IN METERS UNLESS STATED OTHERWISE

- COORDINATES: SIRGAS SISTEM, DATUM:COLOMBIAN BOGOTÁ ZONE

- ROAD ALIGNMENT AND SPECIFICATIONS ARE PROVIDED FOR INFORMATION ONLY.

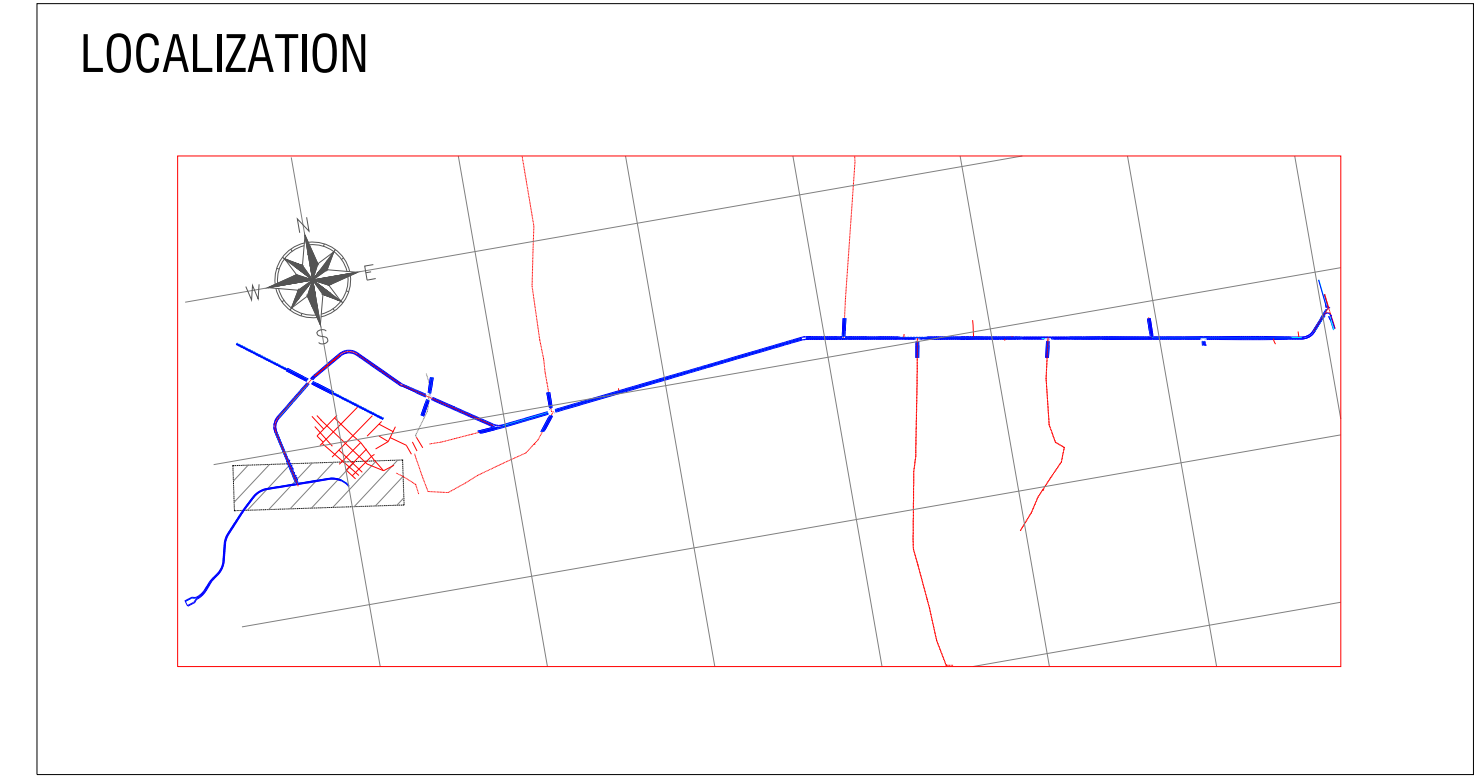
750

REFERENCE DRAWINGS

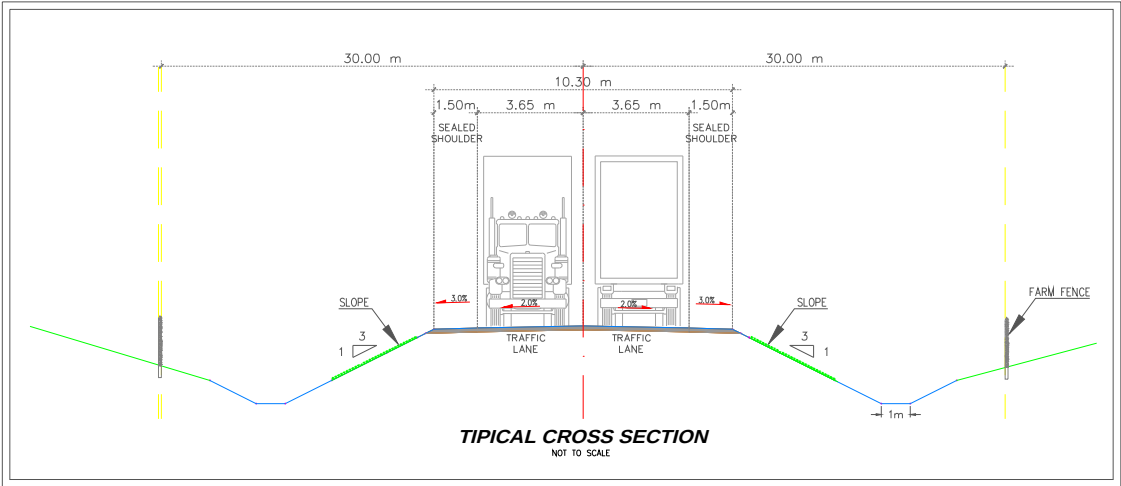
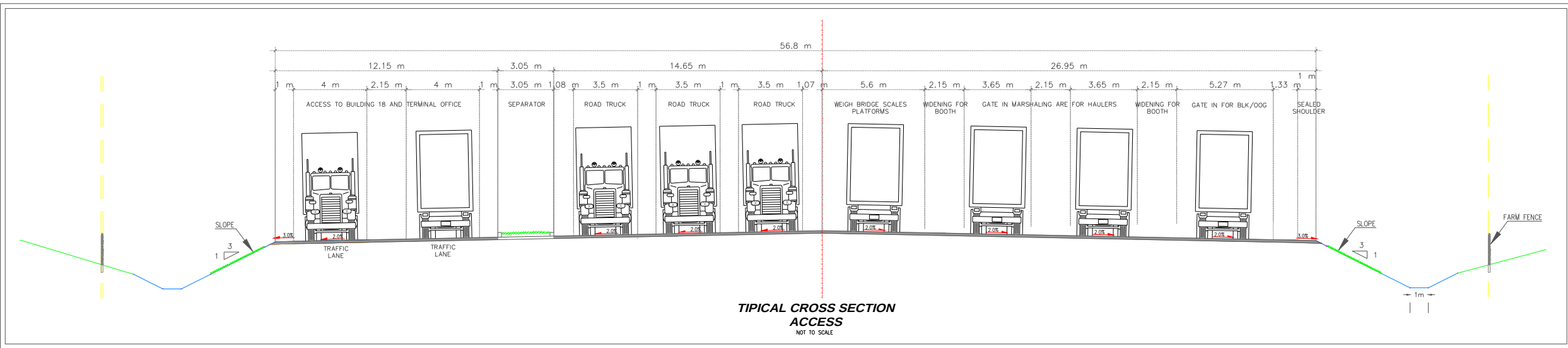
Name

Revision

Date



CUADRO GEOMETRIA HORIZONTAL PLANTA-2																						
PI	COORDENADAS		Δ	Rc (m)	A(m)	Le (m)	Oe	Xe (m)	Ye(m)	ΔR (m)	XM(m)	TI (m)	Tc (m)	Δc	Lc (m)	Te (m)	Ee (m)	ABSCISADO				
	NORTE	ESTE																TE (m)	EC/PC (m)	CE/PT (m)	ET (m)	
5	1369717.182	707605.260	4°31'30.92"D	1500.000	-	-	-	-	-	-	-	-	-	-	4°31'30.92"	118.471	59.266	1.170	-	K1+156.213	K1+274.684	-
6	1369897.850	707800.027	43°29'09.64"D	230.000	-	-	-	-	-	-	-	-	-	-	43°29'09.64"	174.564	91.728	17.617	-	K1+389.349	K1+563.913	-
7	1369888.124	708675.286	54°43'50.32"D	230.000	-	-	-	-	-	-	-	-	-	-	54°43'50.32"	219.703	119.044	28.982	-	K2+228.454	K2+448.157	-
FINAL	1369779.368	708750.404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	K2+461.289	-



02	29/11/17	Update note on roads	J.C.V.	D.M.M.	L.E.
01	29/09/17	Update acces road alignment and length	J.C.V.	D.M.M.	L.E.
00	06/02/17	First Issue	S.K.	L.M.	S.B.
Rev.	Date	Description	Author	Checked by	Approved by

Puerto Antioquia

Urabá

Puerto Antioquia Multipurpose Port

e

egis

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Employer's Requirements - Definition Drawings

ACCES ROAD ALIGNMENT

MAMH013B

ROA

GE

002

02

29/09/2017

A1

1/2000

Project Nr.

Category

Doc Type

Serial nA

Revision

Date

Format

Scale