

ESTIMATED AMOUNT OF CONCRETE
FOUNDATION SLAB: 132 m³
FRAME: 279 m³

ESTIMATED REINFORCING STEEL
FOUNDATION SLAB: 100 kg
FRAME: 190 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²

CONCRETE: C35/45
Cmin=40 mm

REINFORCING STEEL: B500B
REINFORCING MESH: B500K

PILES / FOUNDATION: DRILLED PILES D610x14,2 S355J2H

TRANSITION SLABS: PREFABRICATED TRANSITION SLABS
2 x 2 x 4 x 1.0 m x 5.0 m
OR CAST IN SITU 2 x 2 x 4,0 m x 5.0 m
CONCRETE C35/45

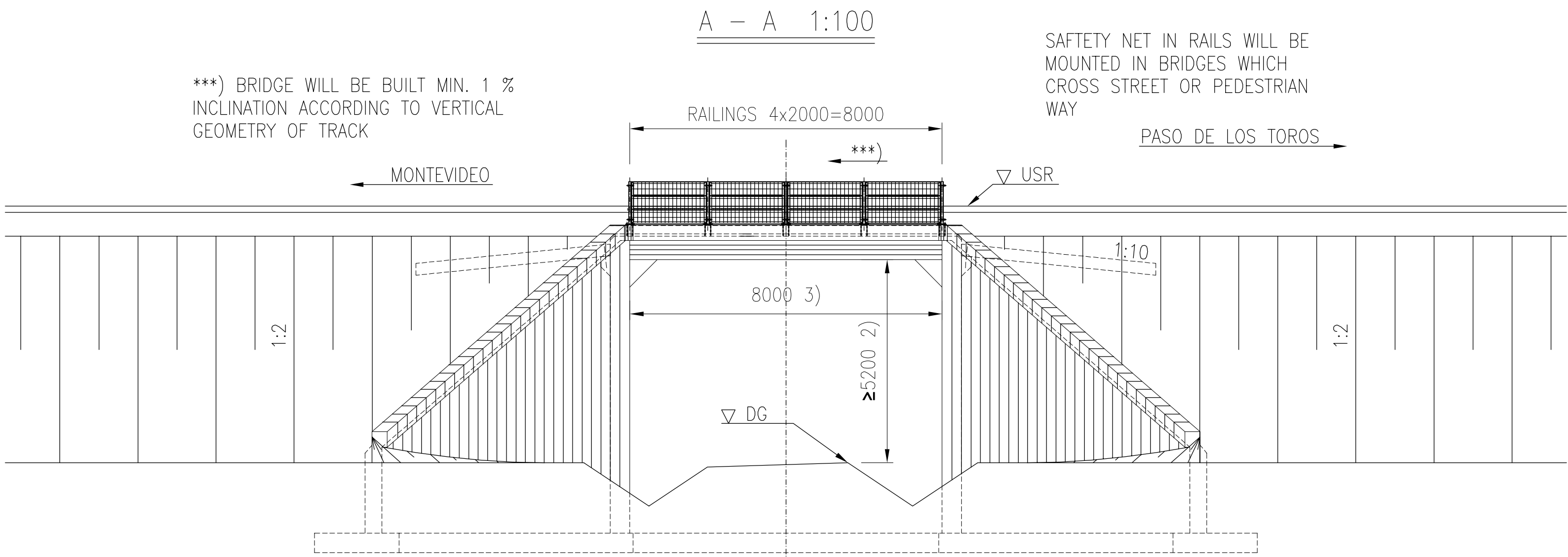
CONSTRUCTIONAL STEEL: S355 J2, HOT-DIP ZINC COATED

RAILING / FENCE: h = 1.1 m
S355J2H
HORIZONTAL LINE LOAD 1.0 kN/m
VERTICAL POINT LOAD 1.0 kN

SURFACE STRUCTURE: WATER PROOFING MATERIAL 10 mm
PROTECTIVE CONCRETE 50 mm
BALLAST 550 mm

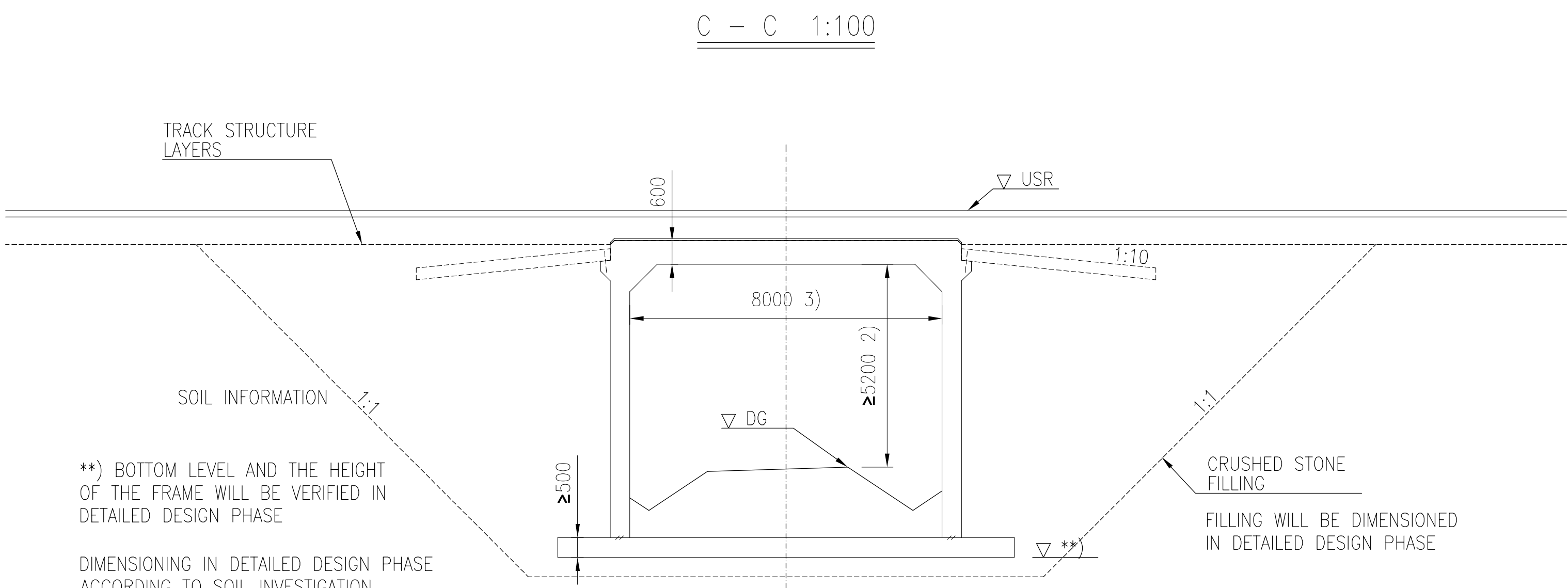
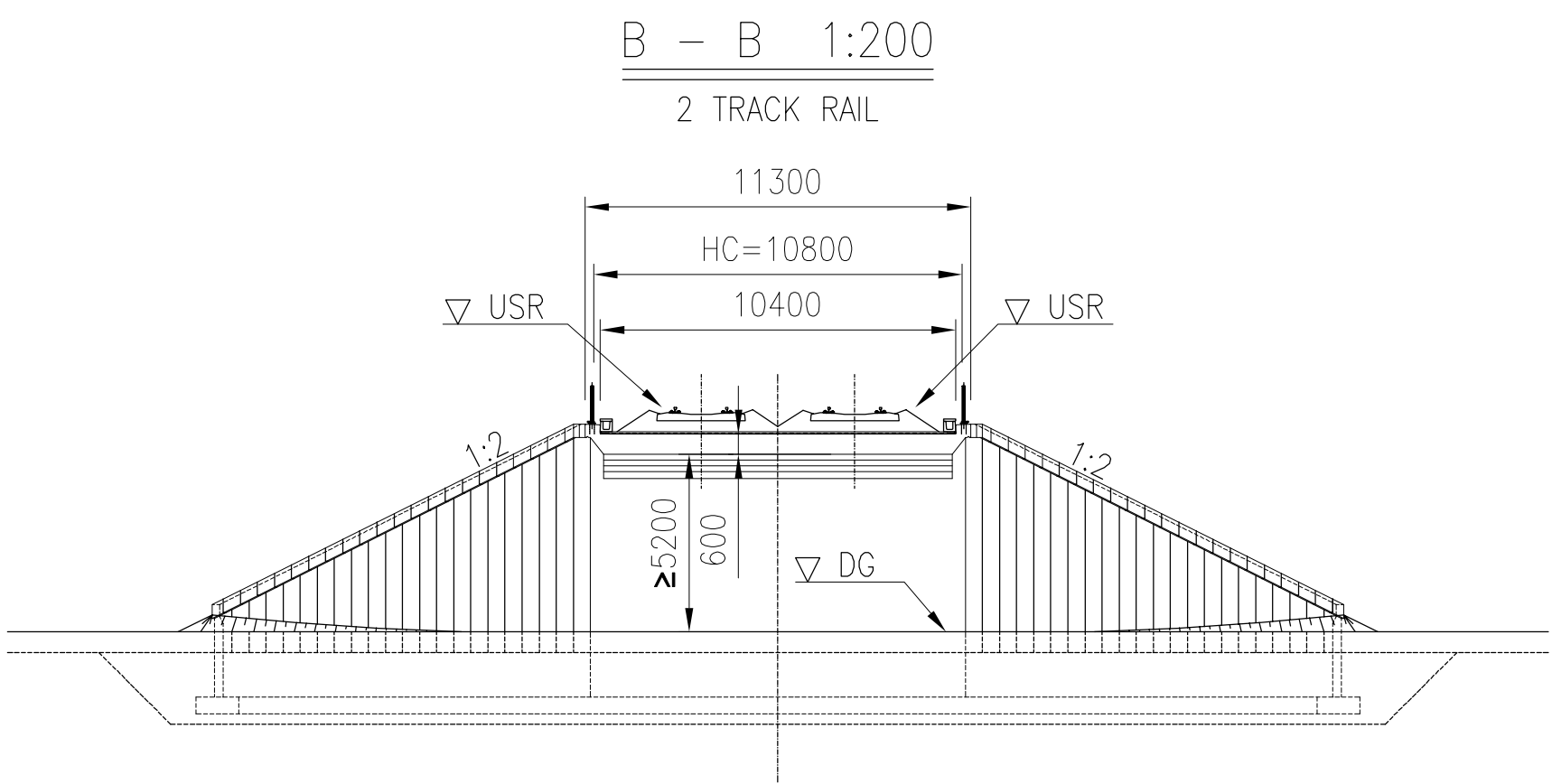
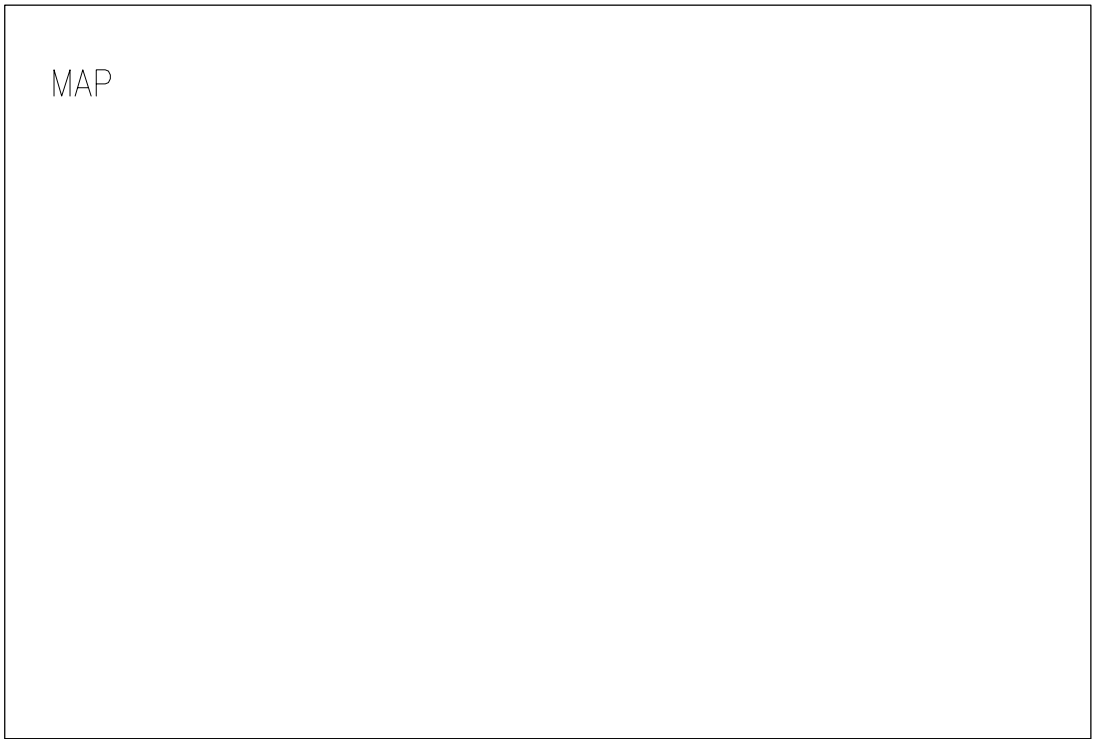
FILLING: REQUIREMENTS ACCORDING TO TRACK INTERMEDIATE LAYER

CLT = CENTER LINE of the TRACK
HC = HORIZONTAL CLEARANCE
LSD = LOWER SURFACE of the DECK
USR = UPPER SURFACE of the RAIL



FRAME BRIDGE OVER CHANNEL
EROSION PROTECTION IN EMBANKMENTS:
CONCRETE REVETMENT 10 m OUTSIDE OF WING WALLS
EROSION PROTECTION UNDER FOUNDATION:
FLOW UNDER FOUNDATION SLAB IS PREVENTED BY BENTONITE FABRIC OR COATED PLATE

- 2) PEDESTRIAN WAY: 4.0 m
3) PEDESTRIAN WAY: 4.0 m



BRIDGETYPE	FRAME BRIDGE
SPANS	4.0...8.0m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	10.80 m

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	<div><div>MTOP</div><div>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</div></div>				
Project	Railway Project				
Design phase	Pre-engineering, Phase 2				
Supplier	<div><div>VR TRACK</div></div>				
Content	Railway bridge Frame bridge 2 track Preliminary general drawing Km+m -+-				
Drawer	23.10.2017	Ilkka Tiito	Loading		
Designer	23.10.2017	Ilkka Tiito	Coordinate and elevation reference system		
Supervisor	23.10.2017	Reima Niklander	Railway line		
Accept.	-	-	Archive	Type	Number
Cust. acc.	-	-	UP	xxxx	1