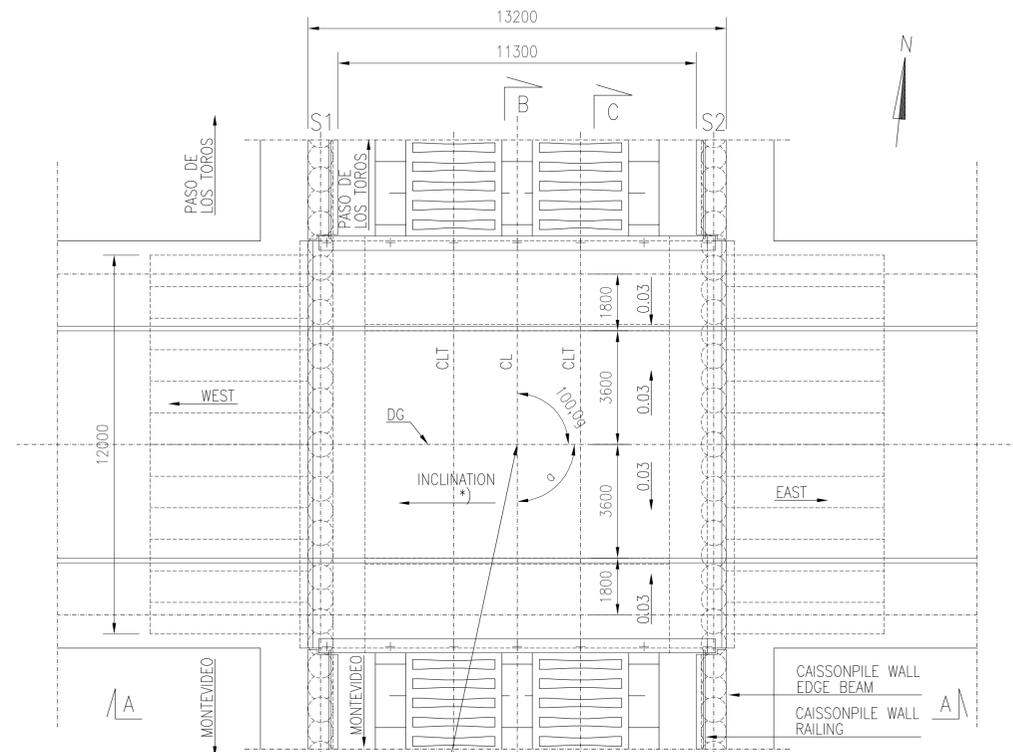


CAST-IN-SITU BRIDGE 11.60 m 1:100

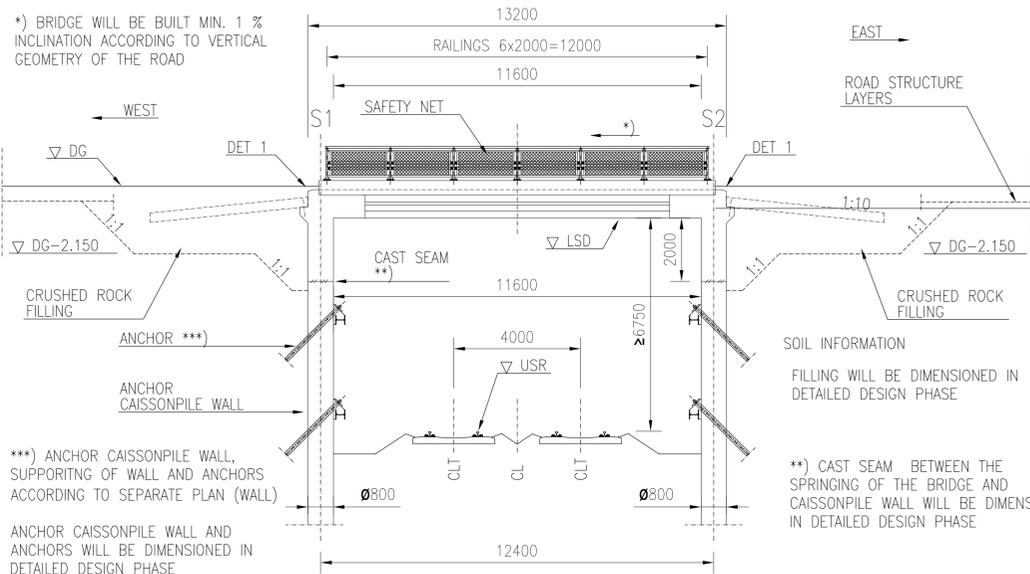
TRENCH BRIDGE



CENTER POINT OF THE BRIDGE
NEW km = xxx+xxx
OLD km = xxx+xxx

INTERSECTION ANGLE BETWEEN THE BRIDGE AND THE TRACK 100.0 gon
alpha = INTERSECTION ANGLE ACCORDING TO THE ROAD AND THE TRACK

A - A 1:100



*) BRIDGE WILL BE BUILT MIN. 1 % INCLINATION ACCORDING TO VERTICAL GEOMETRY OF THE ROAD

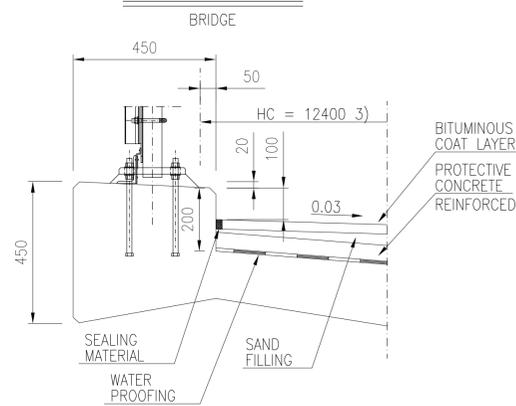
***) ANCHOR CAISSONPILE WALL, SUPPORTING OF WALL AND ANCHORS ACCORDING TO SEPARATE PLAN (WALL)

ANCHOR CAISSONPILE WALL AND ANCHORS WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

SOIL INFORMATION
FILLING WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

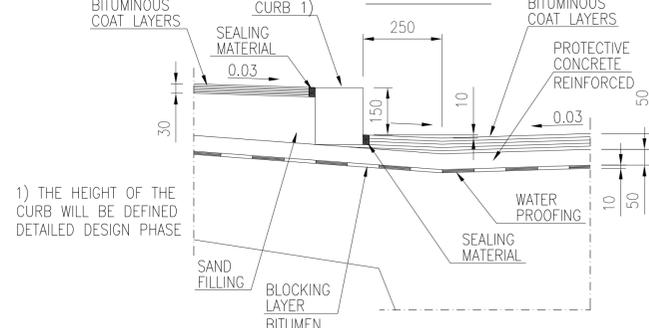
**) CAST SEAM BETWEEN THE SPRINGING OF THE BRIDGE AND CAISSONPILE WALL WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

EDGE BEAM 1:10



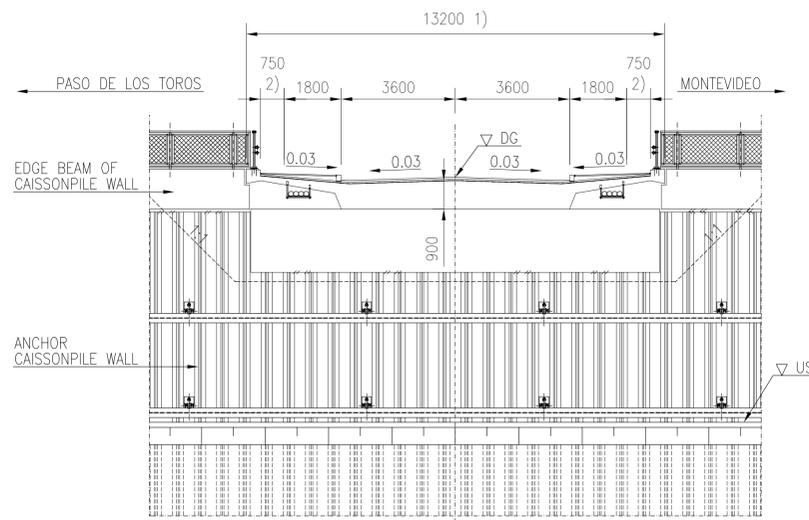
ESTIMATED AMOUNT OF CONCRETE
FRAME: 165 m3
ESTIMATED REINFORCING STEEL
FRAME: 190 kg/m3 (CONCRETE)
TRANSITION SLABS: 325 kg/m3 (CONCRETE)
PROTECTIVE CONCRETE: 3 kg/m2

DET 2 1:10



1) THE HEIGHT OF THE CURB WILL BE DEFINED DETAILED DESIGN PHASE

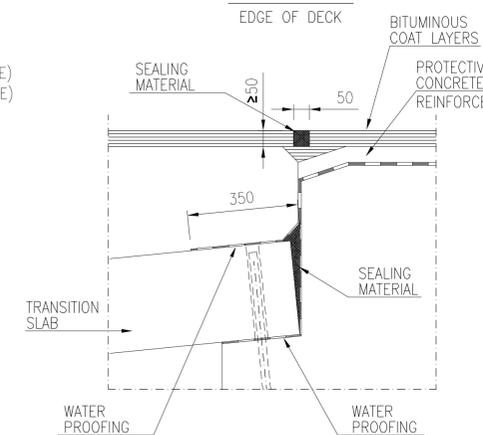
C - C 1:100



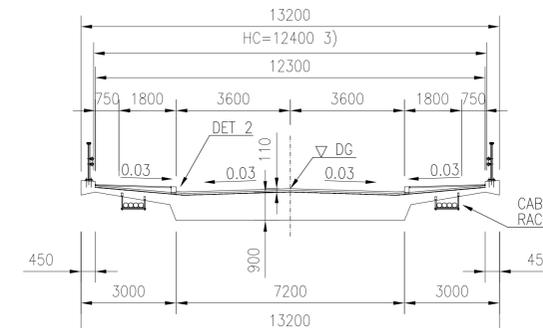
1) THE WIDTH OF THE BRIDGE 13200 mm (NORMAL CASE) TO 15400 mm (CAPURRO)

2) MARGIN DUE TO THE INTERSECTION ANGLE BETWEEN THE STREET AND THE TRACK

DET 1 1:10



B - B 1:100

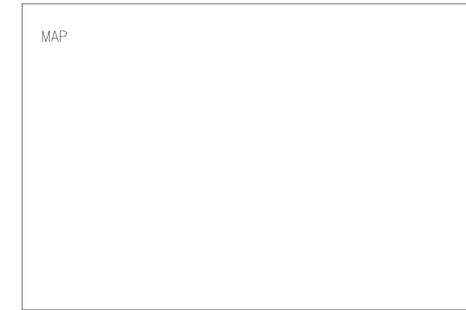


CABLE RACKS AND CABLE DUCTS WILL BE DEFINED IN DETAILED DESIGN PHASE

3) HC OF THE BRIDGE 12400 mm (NORMAL CASE) TO 14600 mm (CAPURRO)

CONCRETE: C35/45
Cmin=40 mm
REINFORCING STEEL: B500B
REINFORCING MESH: B500K
PILES / FOUNDATION: ACCORDING TO CAISSONPILE WALL
TRANSITION SLABS: PREFABRICATED TRANSITION SLABS 2 x 11 x 1.0 m x 5,0 m OR CAST IN SITU 11,0 m x 5,0 m CONCRETE C35/45
CONSTRUCTIONAL STEEL: S355 J2, HOT-DIP ZINC COATED
RAILING / FENCE: CRASH BARRIER h = 1.1 m
SURFACE STRUCTURE: WATER PROOFING MATERIAL 10 mm
PROTECTIVE CONCRETE, C25/30 50 mm
BITUMINOUS COAT 50 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



BRIDGE TYPE	REINFORCED CONCRETE BRIDGE
	FRAME PLATE
CLEAR SPAN	11.60 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	12.40 m ... 14.60 m
VERTICAL CLEARANCE	—

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	<p>MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS</p>	Project Railway Project			
Supplier		Design phase Pre-engineering, Phase 2			
Drawer	Content Trench bridge, cast-in-situ 11.6 m Preliminary general drawing Km+m +-+				
Designer	23.10.2017	Ilkka Tiito	Loading		LM71-25
Supervisor	23.10.2017	Reima Niklander	Coordinate and elevation reference system		WGS 84 UTM 21
Accept.	-	-	Railway line		
Cust. acc.	-	-	Archive	Type	Number
					Rev. Sheet
					OP - 1