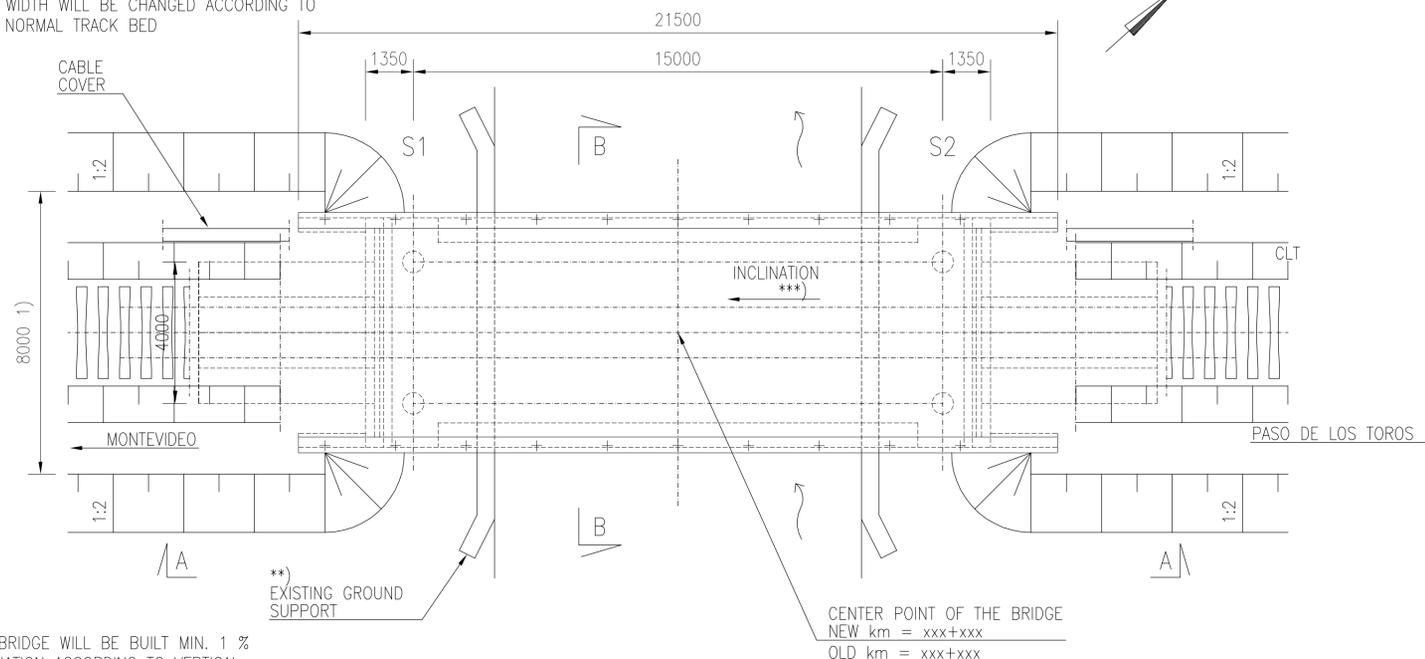


1) THE WIDTH OF THE TRACK BED 8.0 m
IN THE END OF THE BRIDGE, AFTER 10 m
WIDTH WILL BE CHANGED ACCORDING TO
NORMAL TRACK BED

CAST-IN-SITU BRIDGE 15 m 1:100



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

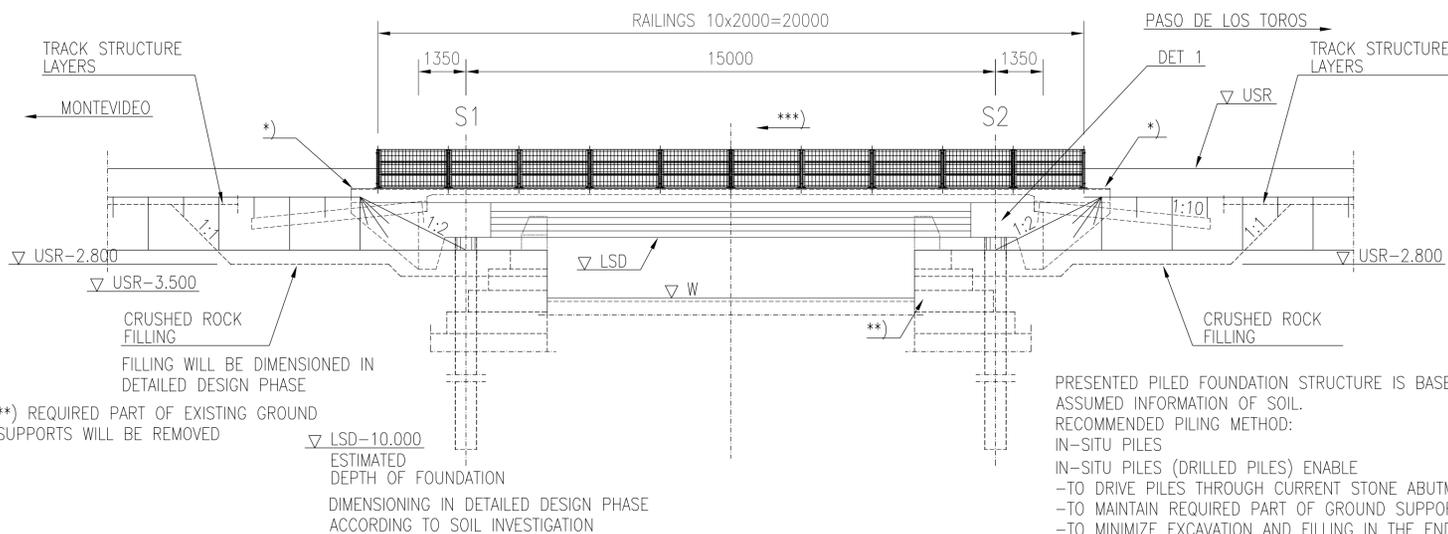
ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m³
SUPERSTRUCTURE: 137 m³

ESTIMATED REINFORCING STEEL
PILES: 1200 kg
SUPERSTRUCTURE: 140 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²

A - A 1:100

*) THE LENGTH OF THE WING WALLS WILL BE
VERIFIED IN DETAILED DESIGN PHASE OR BEFORE
FABRICATION OF PRECAST UNITS

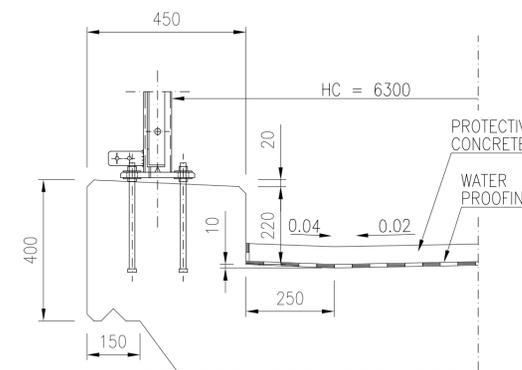


***) REQUIRED PART OF EXISTING GROUND
SUPPORTS WILL BE REMOVED

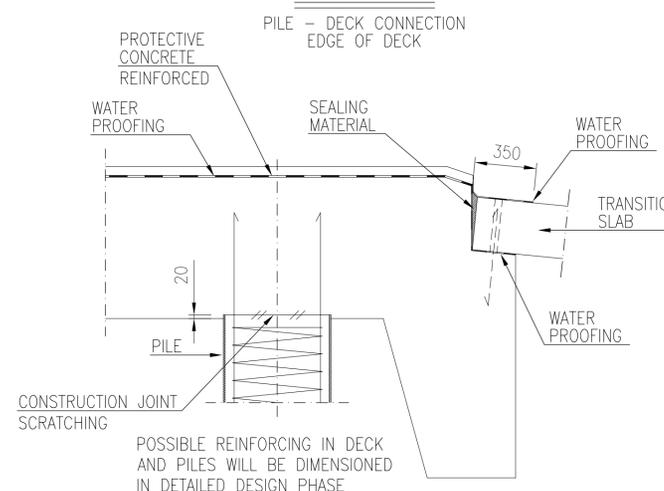
▽ LSD-10.000
ESTIMATED
DEPTH OF FOUNDATION
DIMENSIONING IN DETAILED DESIGN PHASE
ACCORDING TO SOIL INVESTIGATION

PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON
ASSUMED INFORMATION OF SOIL.
RECOMMENDED PILING METHOD:
IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF
THE BRIDGE
-TO SHORTEN THE NEEDED CONSTRUCTION TIME

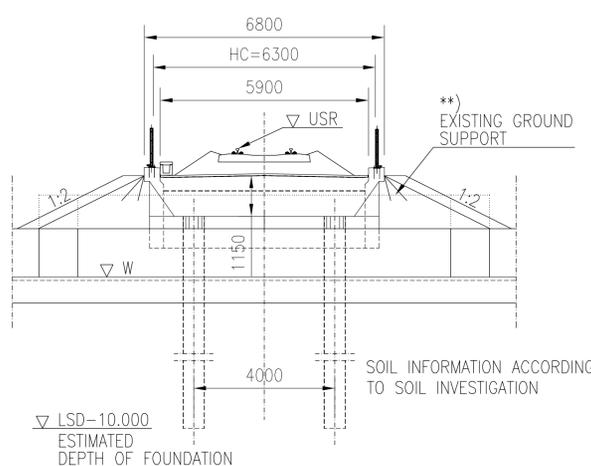
EDGE BEAM 1:10



DET 1 1:20



B - B 1:100



- 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 4 x 1.0 m x 5,0 m
OR CAST IN SITU 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

MAP

BRIDGE TYPE	REINFORCED CONCRETE BRIDGE CANTILEVER PLATE
SPANS	1.35 m + 15.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	6.30 m
VERTICAL CLEARANCE	—

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Project				
 MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS		Railway Project			
		Design phase Pre-engineering, Phase 2			
Supplier		Cast-in-situ bridge 15 m			
		Preliminary general drawing Km+m +-+			
		Loading			LM71-25
		Coordinate and elevation reference system			WGS 84 UTM 21
Drawer	23.10.2017	Ilkka Tiuro	Railway line		
Designer	23.10.2017	Ilkka Tiuro			
Supervisor	23.10.2017	Reima Niklander			
Accept.	-	-	Archive	Type	Number
Cost. acc.	-	-	RB	-	1