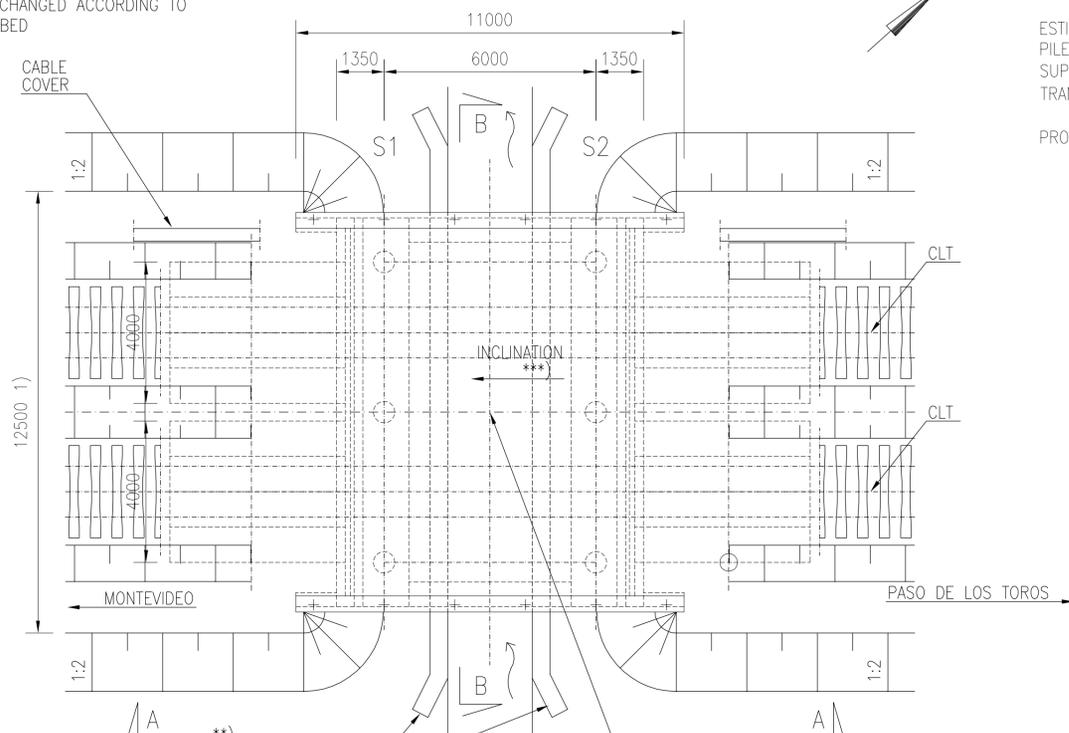


1) THE WIDTH OF THE TRACK BED 12,5 m IN THE END OF THE BRIDGE, AFTER 10 m WIDTH WILL BE CHANGED ACCORDING TO NORMAL TRACK BED

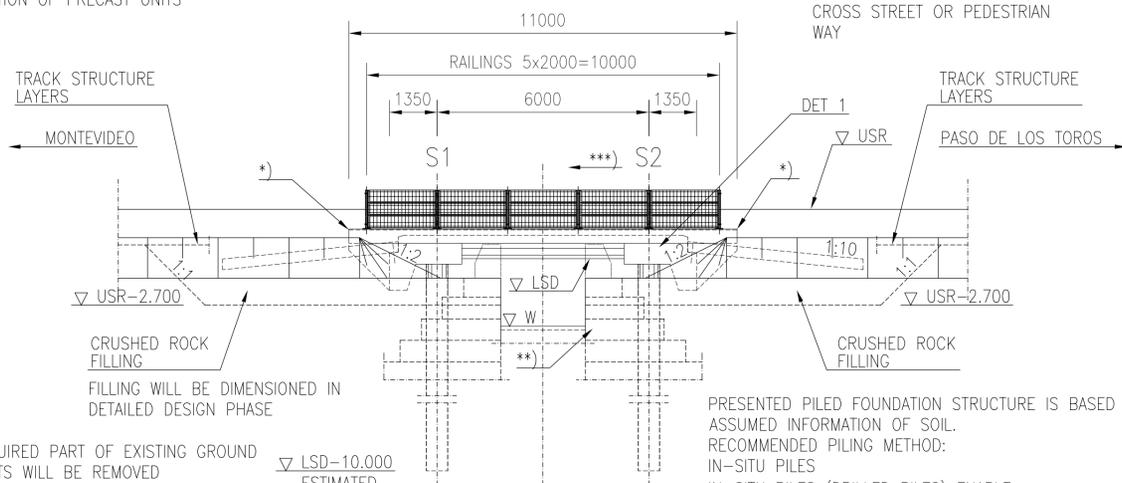
CAST-IN-SITU BRIDGE 2Tr 6 m 1:100



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

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

A - A 1:100



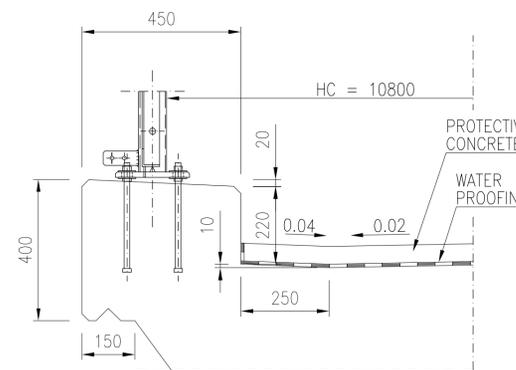
\*\*\*) REQUIRED PART OF EXISTING GROUND SUPPORTS WILL BE REMOVED

ESTIMATED DEPTH OF FOUNDATION DIMENSIONING IN DETAILED DESIGN PHASE ACCORDING TO SOIL INVESTIGATION

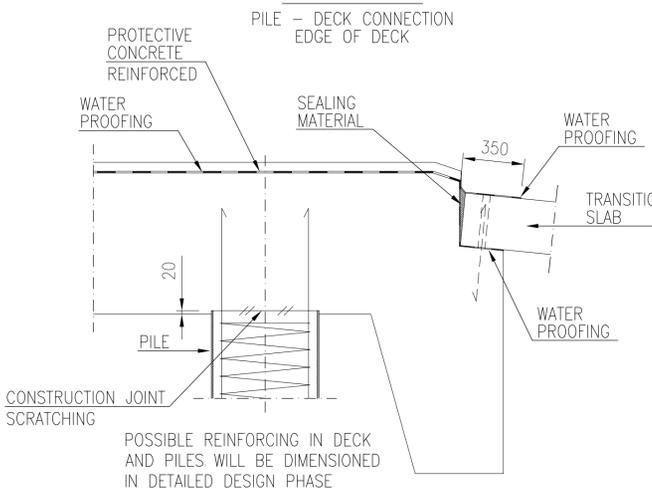
PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON ASSUMED INFORMATION OF SOIL. RECOMMENDED PILING METHOD: IN-SITU PILES IN-SITU PILES (DRILLED PILES) ENABLE  
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT  
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT  
-TO MINIMIZE EXCAVATION AND FILLING IN THE END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

- ESTIMATED AMOUNT OF CONCRETE  
PILES: 17 m<sup>3</sup>  
SUPERSTRUCTURE: 72 m<sup>3</sup>
- ESTIMATED REINFORCING STEEL  
PILES: 1800 kg  
SUPERSTRUCTURE: 180 kg/m<sup>3</sup> (CONCRETE)  
TRANSITION SLABS: 325 kg/m<sup>3</sup> (CONCRETE)
- PROTECTIVE CONCRETE: 3 kg/m<sup>2</sup>

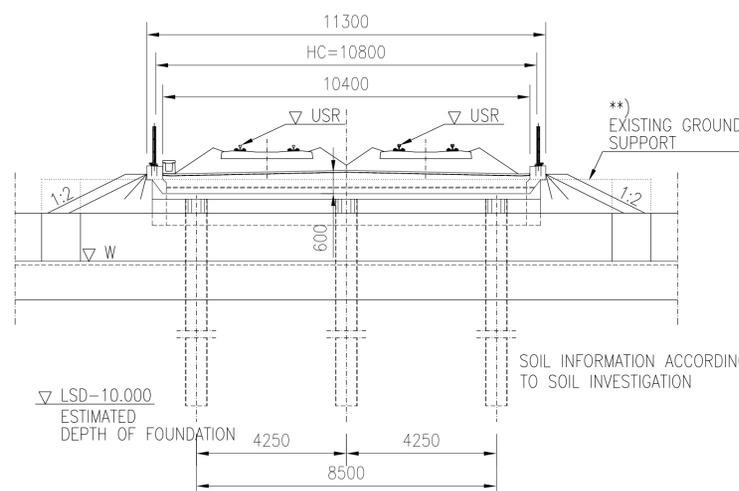
EDGE BEAM 1:10



DET 1 1:20



B - B 1:100



- CONCRETE: C35/45  
C<sub>min</sub>=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 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 + 6.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
VERTICAL CLEARANCE	—
HORIZONTAL CLEARANCE	10.80 m

VERSION  
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Project <b>Railway Project</b>				
Supplier	Design phase <b>Pre-engineering, Phase 2</b>				
Supplier	Content <b>Cast-in-situ bridge 6 m Double track Preliminary general drawing Km+m +-+</b>				
Drawer	23.10.2017	Ilkka Tiito	Loading LM71-25		
Designer	23.10.2017	Ilkka Tiito	Coordinate and elevation reference system WGS 84 UTM 21		
Supervisor	23.10.2017	Reima Niklander	Railway line		
Accept.	-	-	Archive	Type	Number
Cost. acc.	-	-	RB	-	1