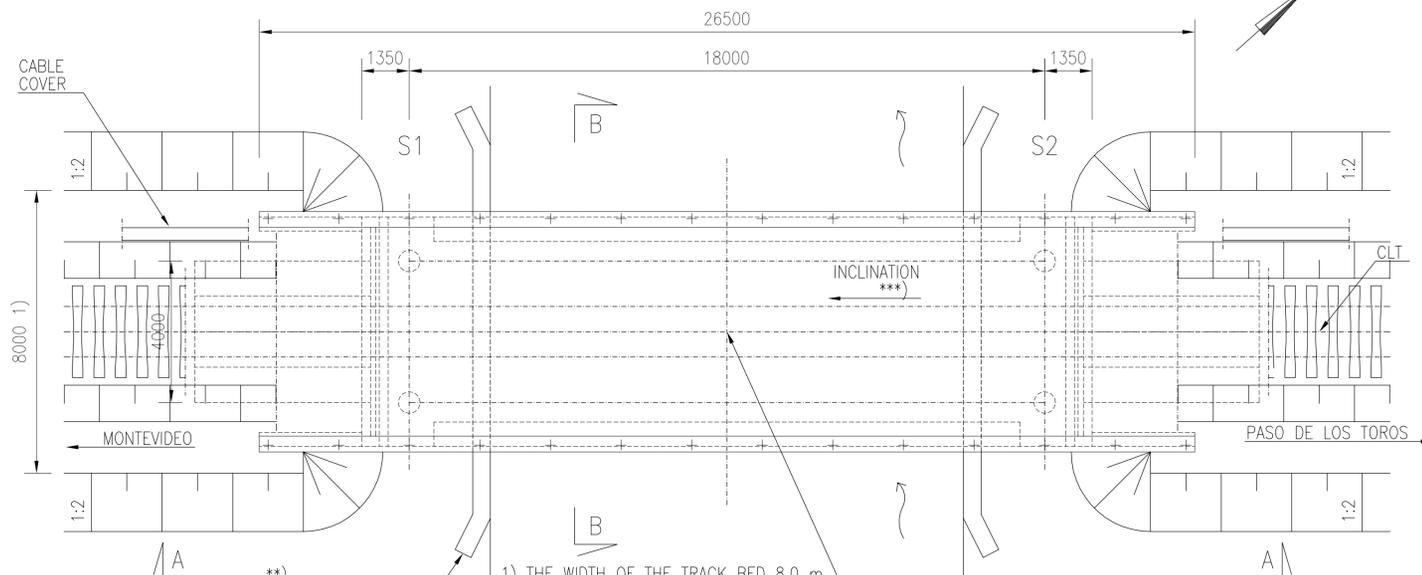


CAST-IN-SITU BRIDGE 18 m 1:100



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

** EXISTING GROUND SUPPORT

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

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

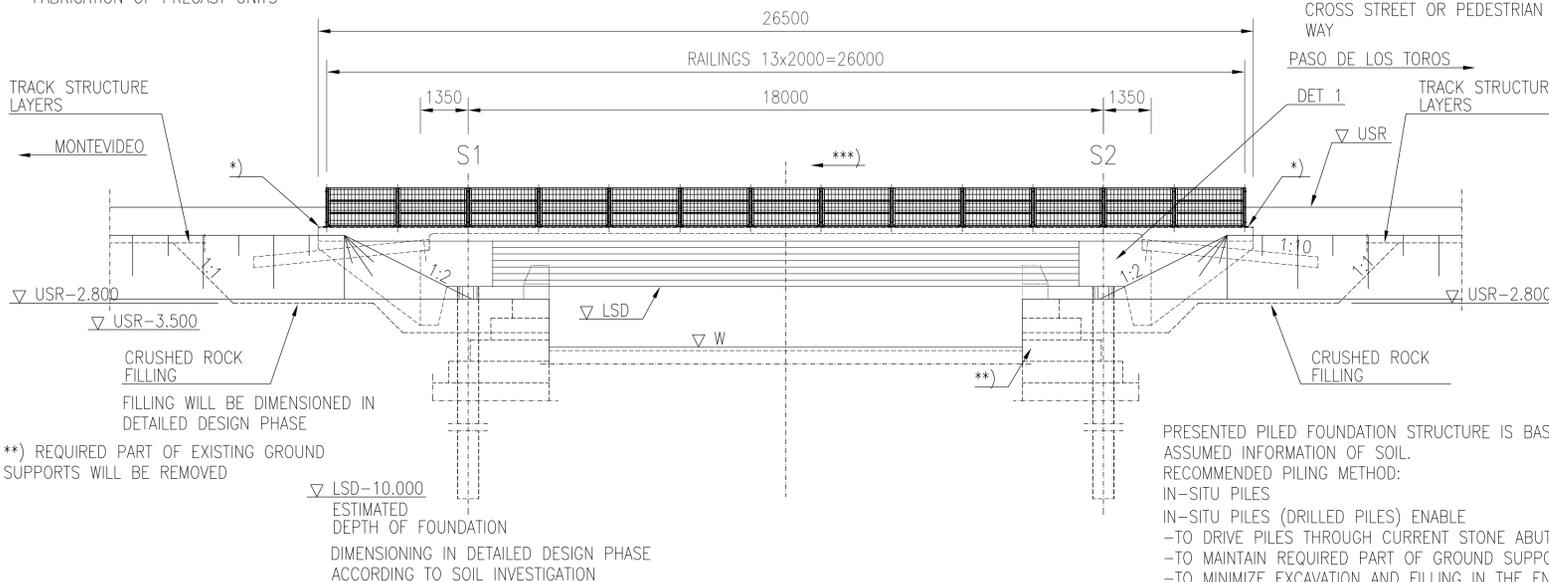
ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m³
SUPERSTRUCTURE: 198 m³

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

PROTECTIVE CONCRETE: 3 kg/m²

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

A - A 1:100

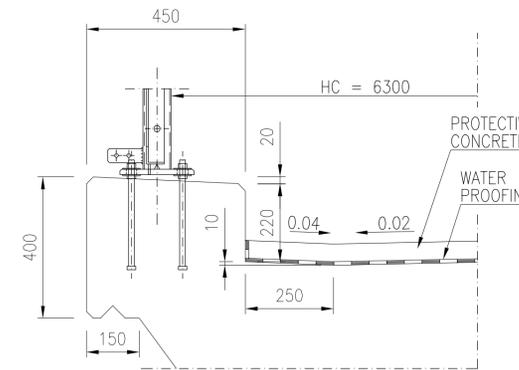


** REQUIRED PART OF EXISTING GROUND SUPPORTS WILL BE REMOVED

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

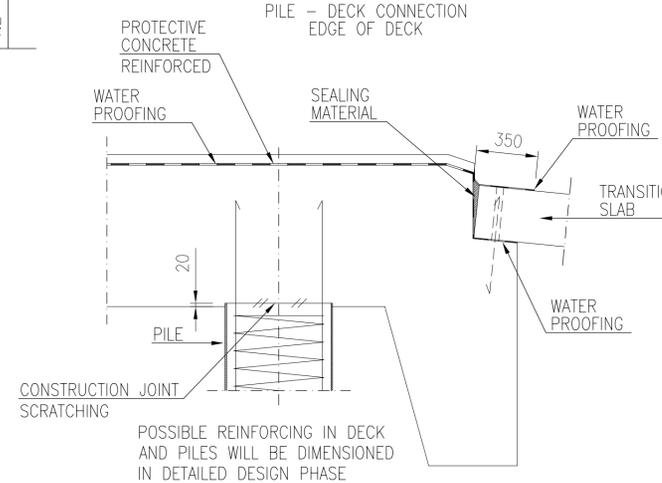
PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON ASSUMED INFORMATION OF SOIL. RECOMMENDED PILING METHOD: IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF THE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

EDGE BEAM 1:10

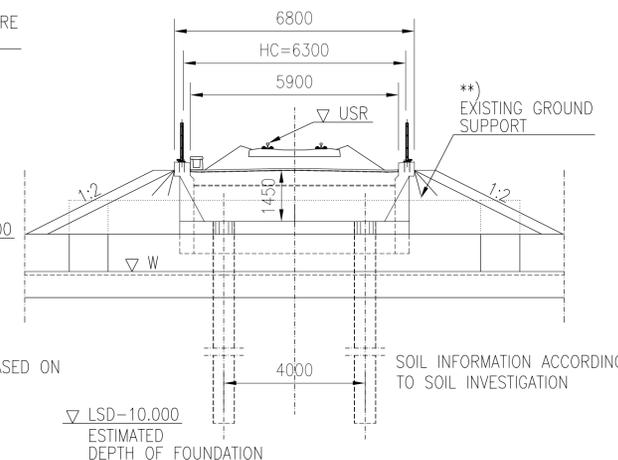


DET 1 1:20

PILE - DECK CONNECTION
EDGE OF DECK



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 + 18.00 m + 1.35 m
HORIZONTAL CLEAR SPAN	—
VERTICAL CLEARANCE	—
HORIZONTAL CLEARANCE	6.30 m

VERSION
23.10.2017

Revision	Explanation	Date	Designer	Date	Acceptor
Customer	Project Railway Project				
Supplier	Design phase Pre-engineering, Phase 2				
Supplier	Content Cast-in-situ bridge 18 m Preliminary general drawing Km+m +-+				
Supplier	VR TRACK				
Drawer	23.10.2017	Ilkka Tiuro	Loading	LM71-25	
Designer	23.10.2017	Ilkka Tiuro	Coordinate and elevation reference system	WGS 84 UTM 21	
Supervisor	23.10.2017	Reima Niklander	Railway line		
Accept.	-	-	Archive	Type	Number
Cost. acc.	-	-	Rev.	Sheet	
			RB	-	1