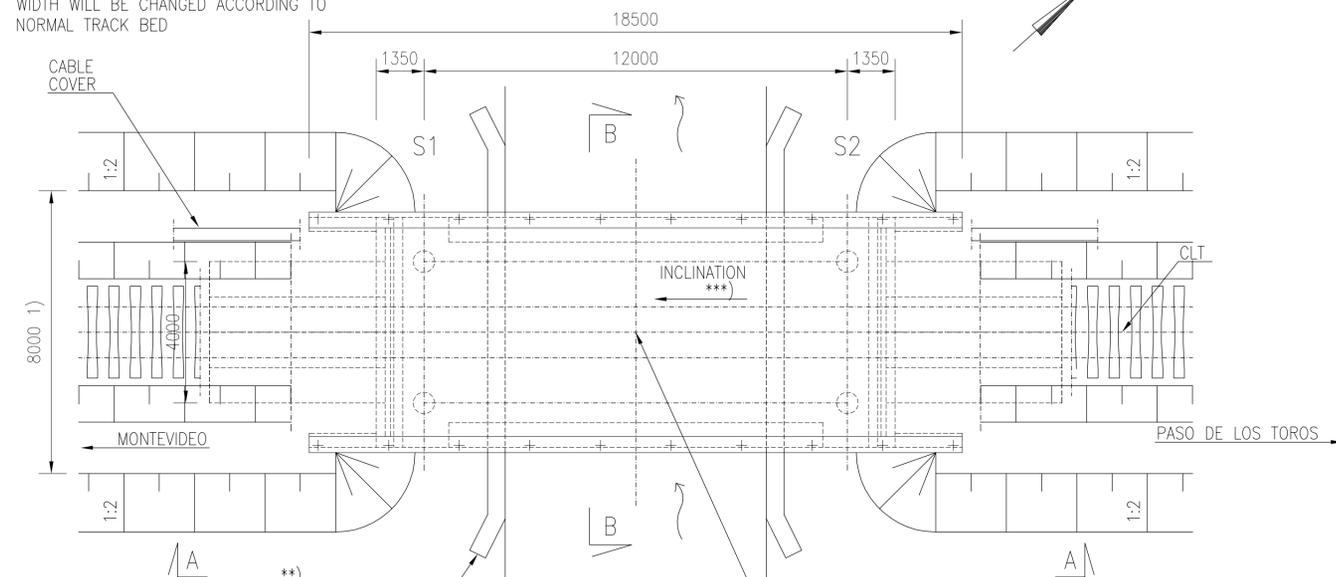


1) THE WIDTH OF THE TRACK BED 8.0 m
IN THE END OF THE BRIDGE, AFTER 10 m
WIDTH WILL BE CHANGED ACCORDING TO
NORMAL TRACK BED

CAST-IN-SITU BRIDGE 12 m 1:100



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

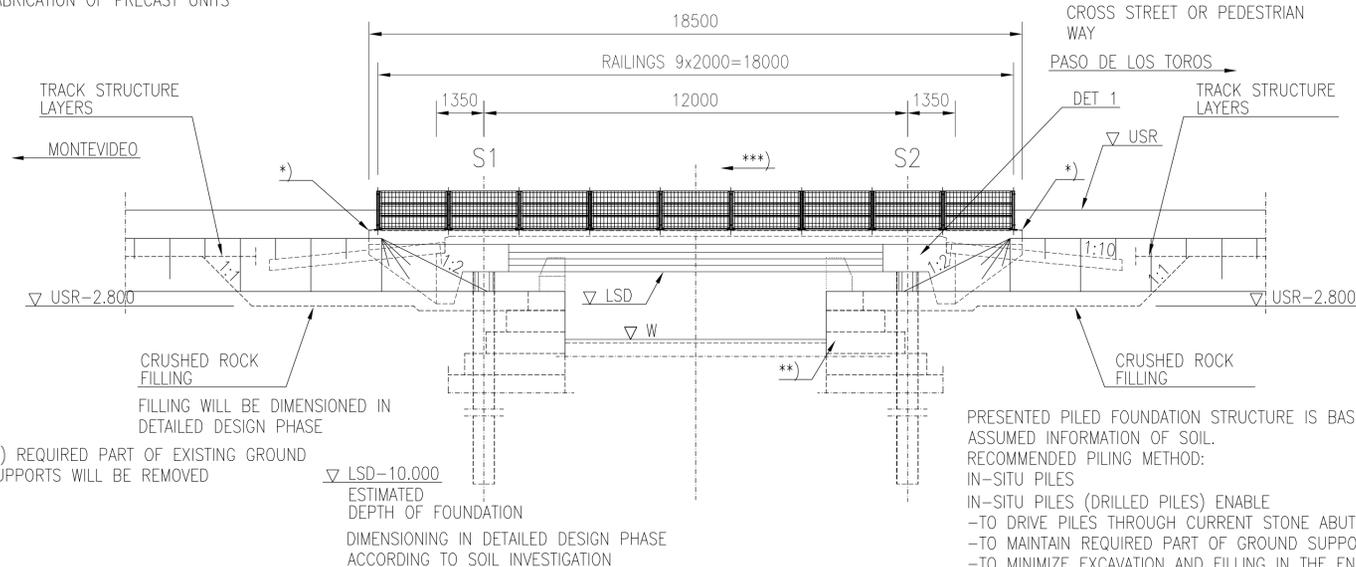
ESTIMATED AMOUNT OF CONCRETE
PILES: 11 m³
SUPERSTRUCTURE: 99 m³

ESTIMATED REINFORCING STEEL
PILES: 1200 kg
SUPERSTRUCTURE: 170 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

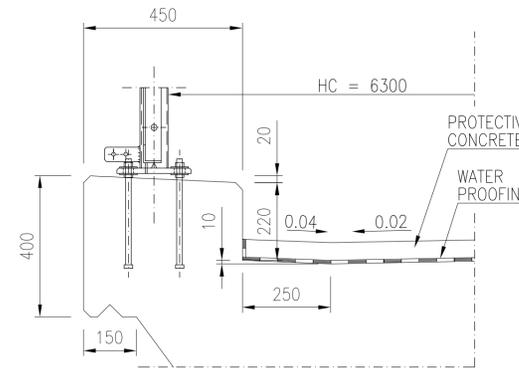


**) REQUIRED PART OF EXISTING GROUND
SUPPORTS WILL BE REMOVED

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

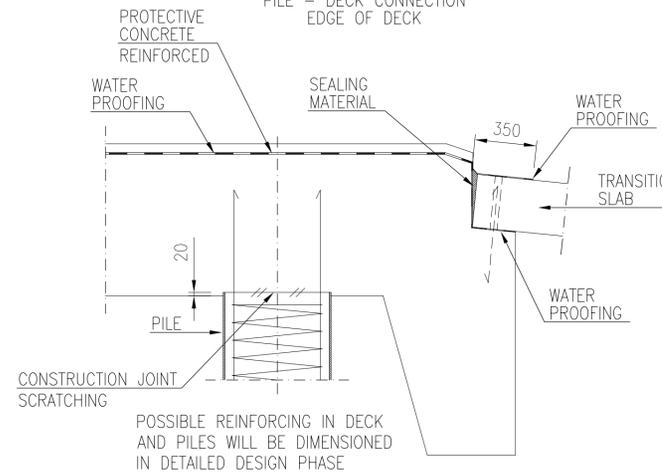
PRESENTED PILED FOUNDATION STRUCTURE IS BASED ON
ASSUMED INFORMATION OF SOIL.
RECOMMENDED PILING METHOD:
IN-SITU PILES
IN-SITU PILES (DRILLED PILES) ENABLE
-TO DRIVE PILES THROUGH CURRENT STONE ABUTMENT
-TO MAINTAIN REQUIRED PART OF GROUND SUPPORT
-TO MINIMIZE EXCAVATION AND FILLING IN THE END OF
THE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

EDGE BEAM 1:10



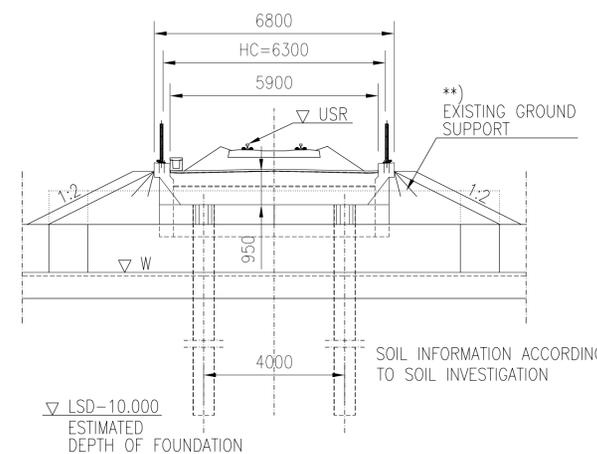
DET 1 1:20

PILE - DECK CONNECTION
EDGE OF DECK



POSSIBLE REINFORCING IN DECK
AND PILES WILL BE DIMENSIONED
IN DETAILED DESIGN PHASE

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 + 12.00 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	MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS	Project Railway Project			
Supplier		Design phase Pre-engineering, Phase 2			
Drawer	Content Cast-in-situ bridge 12 m Preliminary general drawing Km+m +-+				
Designer					
Supervisor	Loading LM71-25				
Accept.	Coordinate and elevation reference system WGS 84 UTM 21				
Cost. acc.	Railway line				
	Archive	Type	Number	Rev.	Sheet
	RB	-	-	-	1