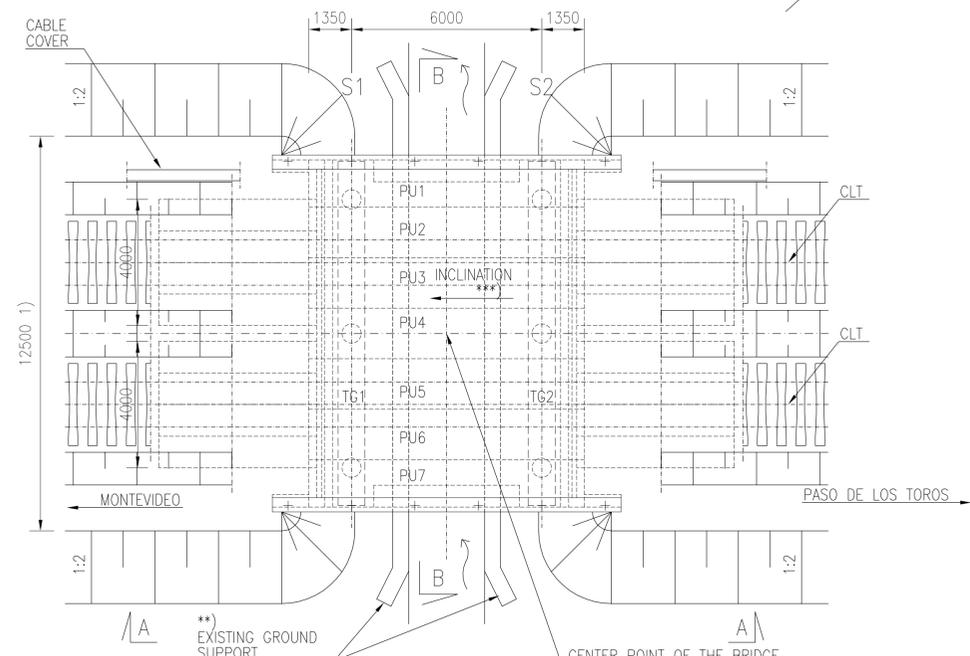


1) THE WIDTH OF THE TRACK BED 12.5 m IN THE END OF THE BRIDGE, AFTER 10 m WIDTH WILL BE CHANGED ACCORDING TO NORMAL TRACK BED

PREFABRICATED BRIDGE 2Tr 6 m 1:100



PU = PRECAST UNIT
TG = TRANSVERSE GIRDER

ESTIMATED AMOUNT OF CONCRETE

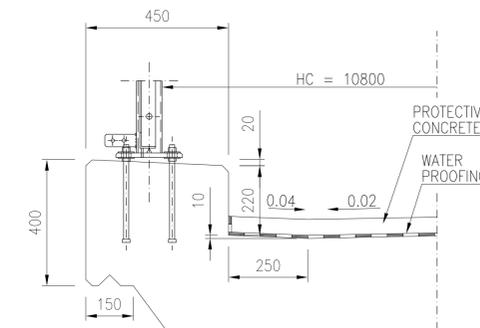
PILES: 17 m³
TRANSVERSE GIRDER: 19 m³
SUPERSTRUCTURE: 67 m³

ESTIMATED REINFORCING STEEL

PILES: 1800 kg
TRANSVERSE GIRDER: 200 kg/m³ (CONCRETE)
SUPERSTRUCTURE: 190 kg/m³ (CONCRETE)
TRANSITION SLABS: 325 kg/m³ (CONCRETE)

PROTECTIVE CONCRETE: 3 kg/m²

EDGE BEAM 1:10



CONCRETE: C35/45
C_{min}=40 mm

REINFORCING STEEL: B500B
REINFORCING MESH: B500K

PILES / FOUNDATION: DRILLED PILES D610x14,2 S355J2H

TRANSITION SLABS: PREFABRICATED TRANSITION SLABS
2 x 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

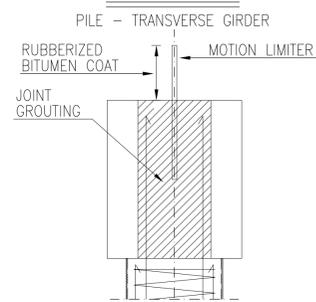
RAILING / FENCE: h = 1.1 m
S355J2H
HORIZONTAL LINE LOAD 1,0 KN/m
VERTICAL POINT LOAD 1,0 KN

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

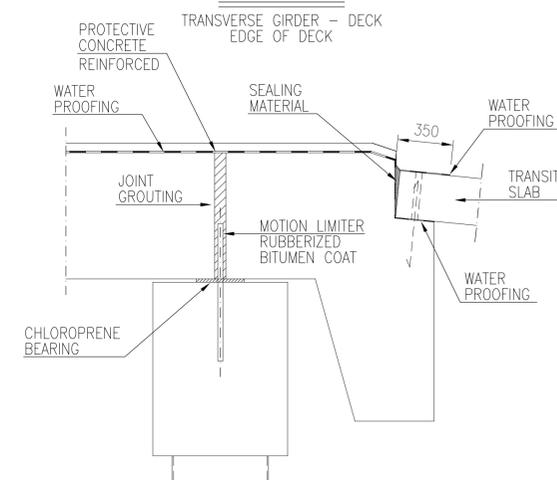
JOINTS 1:20



POSSIBLE REINFORCING WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

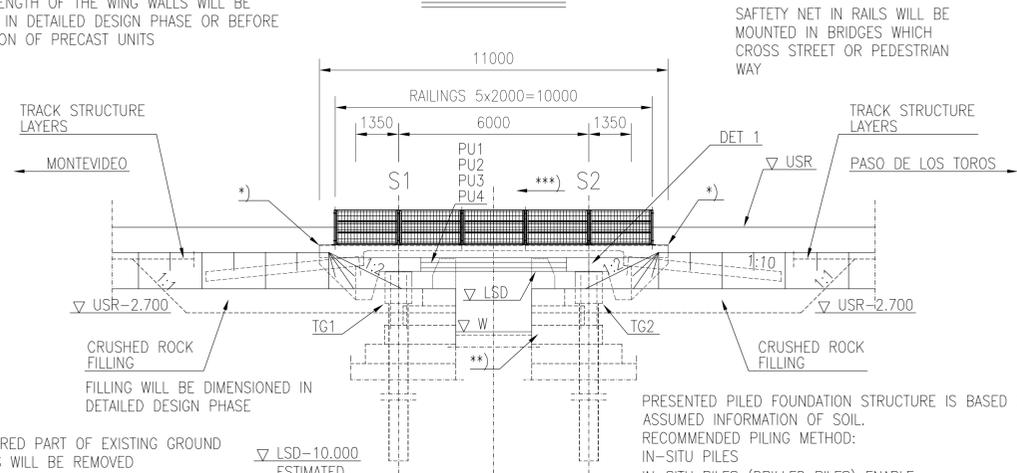
SUPPORTING FOR TRANSVERSE GIRDER DURING ASSEMBLY WILL BE DEFINED IN DETAIL DESIGN PHASE

DET 1 1:20



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

A - A 1:100



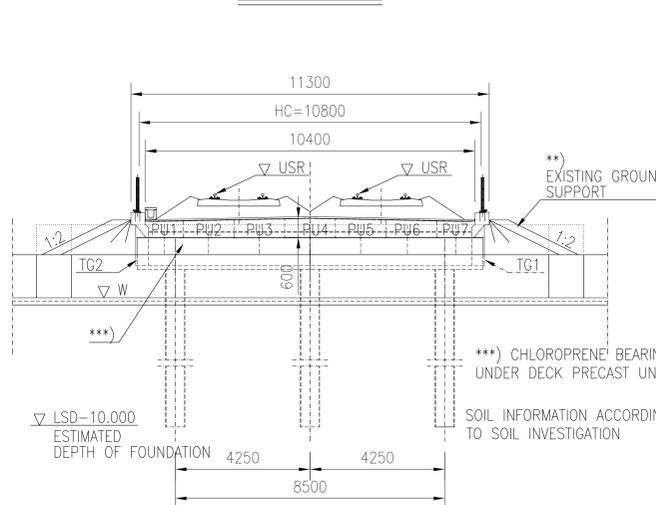
SAFETY NET IN RAILS WILL BE MOUNTED IN BRIDGES WHICH CROSS STREET OR PEDESTRIAN WAY

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

CRUSHED ROCK FILLING
FILLING WILL BE DIMENSIONED IN DETAILED DESIGN PHASE

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

B - B 1:100

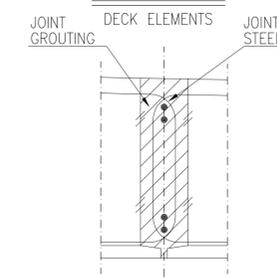


**) CHLOROPRENE BEARING UNDER DECK PRECAST UNITS

SOIL INFORMATION ACCORDING TO SOIL INVESTIGATION

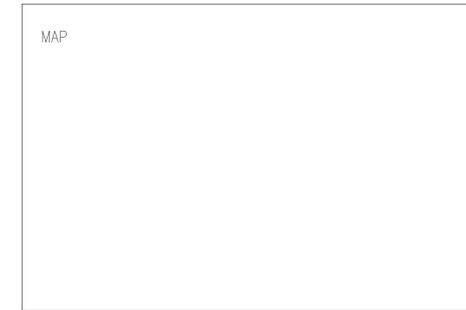
**) REQUIRED PART OF EXISTING GROUND SUPPORTS WILL BE REMOVED

JOINTS 1:10



ELEMENTS ARE JOINED TOGETHER TO STRENGTHEN THE DECK STRUCTURE

REINFORCING STEELS IN JOINTS WILL BE DEFINED IN DETAIL DESIGN PHASE



| | |
|-----------------------|--------------------------|
| BRIDGE TYPE | PREFABRICATED BRIDGE |
| 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 | MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS | Project Railway Project | | | |
| Supplier | | Design phase Pre-engineering, Phase 2 Content Prefabricated bridge 6 m Double track Preliminary general drawing Km+± | | | |
| 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 Nikander | Railway line | | |
| Accept. | - | - | Archive | Type | Number |
| Cust. acc. | - | - | RB | - | 1 |