

MATERIALS:

PLATES S355J2 +N EN 10025-2
 HOLLOW SECTIONS S355J2H EN 10219
 HOT-ROLLED PROFILES S355J2 EN 10025-1
 ALL STEEL MATERIALS HOT-DIP GALVANIZED

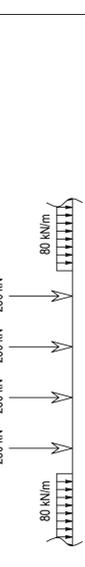
FASTENING:
 SHEAR / FRICTION CONNECTIONS: (HV BOLTS)
 BOLTS 10.9 HV EN 14399-4
 NUTS HV 10 EN 14399-4
 WASHERS HV EN 14399-6
 BOLTS ARE TO BE PRELOADED FOR $0.7 \cdot f_{ub} \cdot A_s$
 SURFACES SHALL BE CLEARED FOR FRICTION CONNECTION

OTHER CONNECTIONS
 BOLTS 8.8 SFS-EN ISO 4014
 NUTS GRADE 8 SFS-EN ISO 4032
 WASHERS GRADE 8 SFS-EN ISO 7089
 ALL FASTENING PRODUCTS HOT-DIP GALVANIZED

ESTIMATED WEIGHT OF NEW STEEL STRUCTURE: 20720 KG X 12 PCS
 SPHERICAL BEARINGS: 12PCS FIXED AND 12 PCS GUIDED SLIDING

DESIGN LOADS:
 DEAD LOAD NEW STRUCTURAL PART WEIGHT 203.08 kN
 TOTAL WEIGHT 903.75 kN
 +1kN/m² ADDED FOR BRIDGE AREA

TRAIN AXLE LOAD 22.5 t = 225kN
 LOAD DIAGRAM LM71-22.5
 250 kN 250 kN 250 kN 250 kN



LIVE LOAD FOR WALKING PLATFORM 4kN/m²
 HORIZONTAL LOAD FOR HANDRAILS 30kg/m OR POINT LOAD 1kN
 WIND LOAD 1kN/m²

CLT = CENTER LINE of the TRACK
 HC = HORIZONTAL CLEARANCE
 LSD = LOWER SURFACE of the DECK
 USR = UPPER SURFACE of the RAIL

MAP



BRIDGE TYPE	STEEL TRUSS BRIDGE
SPAN	52,178m
HORIZONTAL CLEAR SPAN	—
HORIZONTAL CLEARANCE	—
VERTICAL CLEARANCE	—

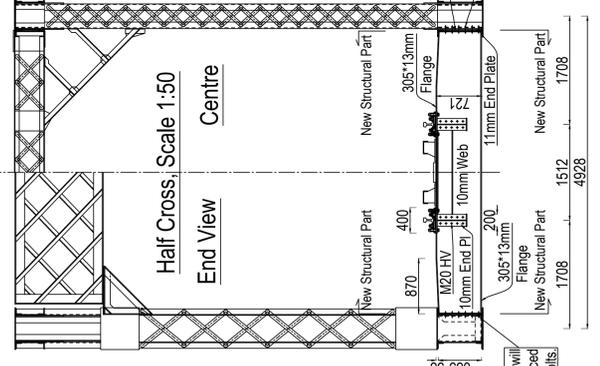
Version 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

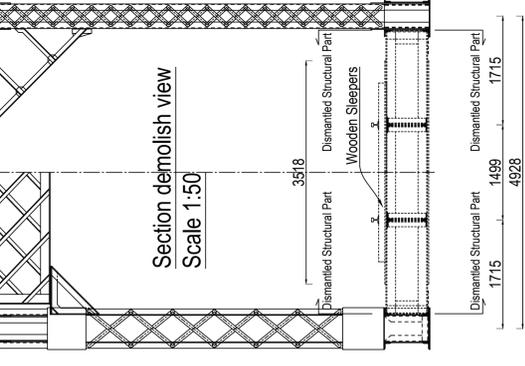
Project: Railway Project
 Design phase: Pre-engineering, Phase 2
 Client: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS
 Engineer: YI Bridge 52m
 Drawing: Preliminary general drawing
 Code: KHM 200+300

Drawn	15.12.2017	Vera Babiczky	Checked	15.12.2017	LW71-22.5
Designed	15.12.2017	Vera Babiczky	Coordinate and elevation reference system		
Supervised	15.12.2017	Mikko Inonoin	Railway line		
Accepted			Archive	Type	Number
					Rev. Sheet

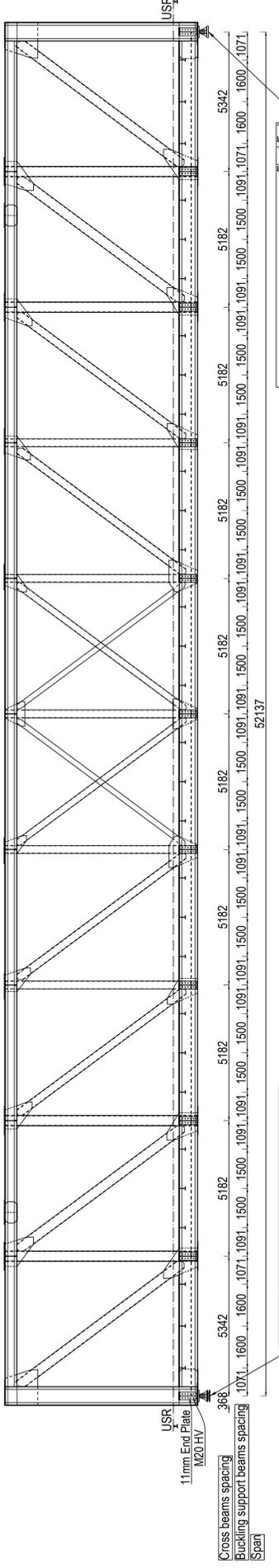
Half Cross, Scale 1:50



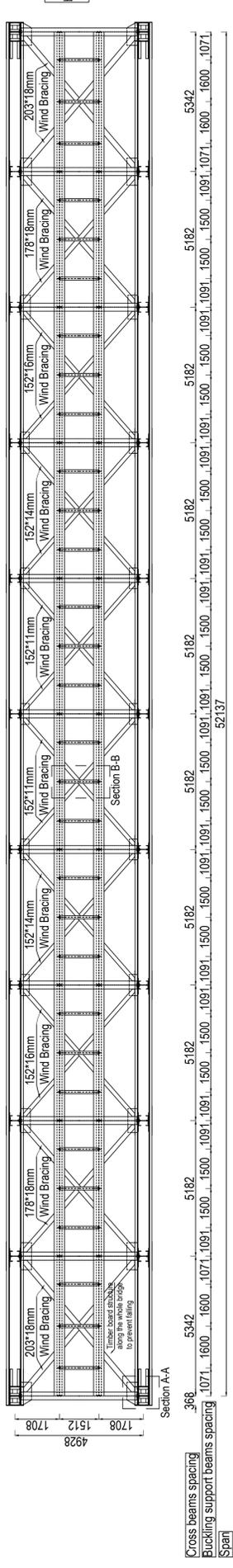
Section demolish view Scale 1:50



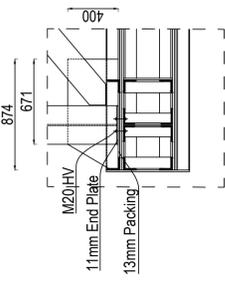
Side view, Scale 1:100



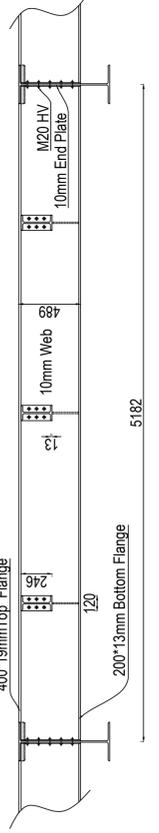
Plan view bottom part, Scale 1:100



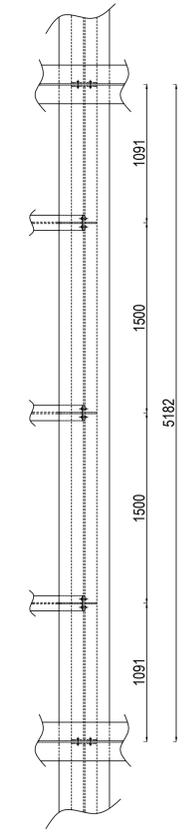
Section at A-A 1:25



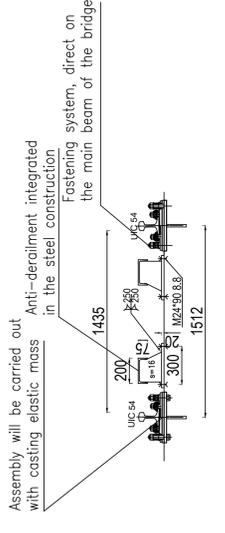
Secondary Girder - side view 1:25



Secondary Girder - top view 1:25



Details of Rail System



Section at B-B

