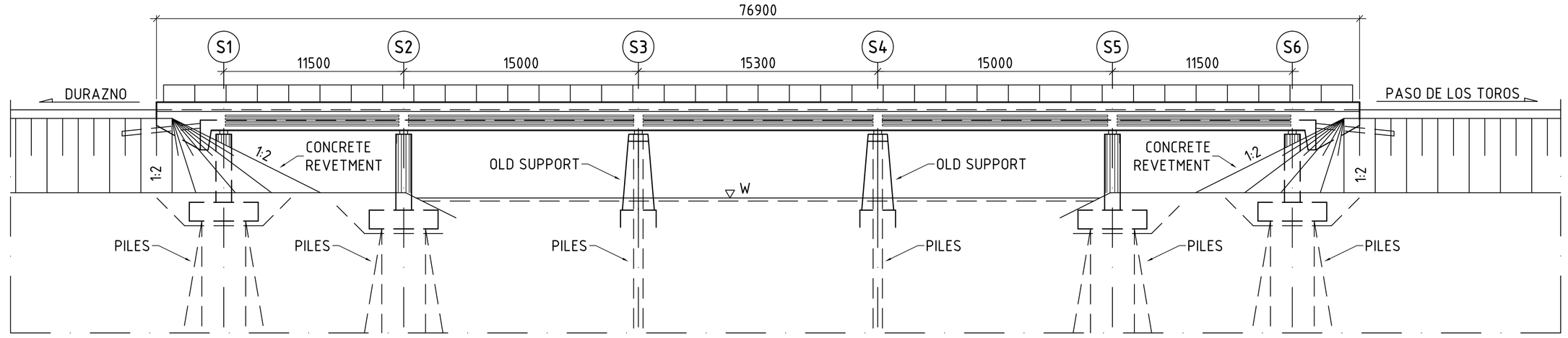
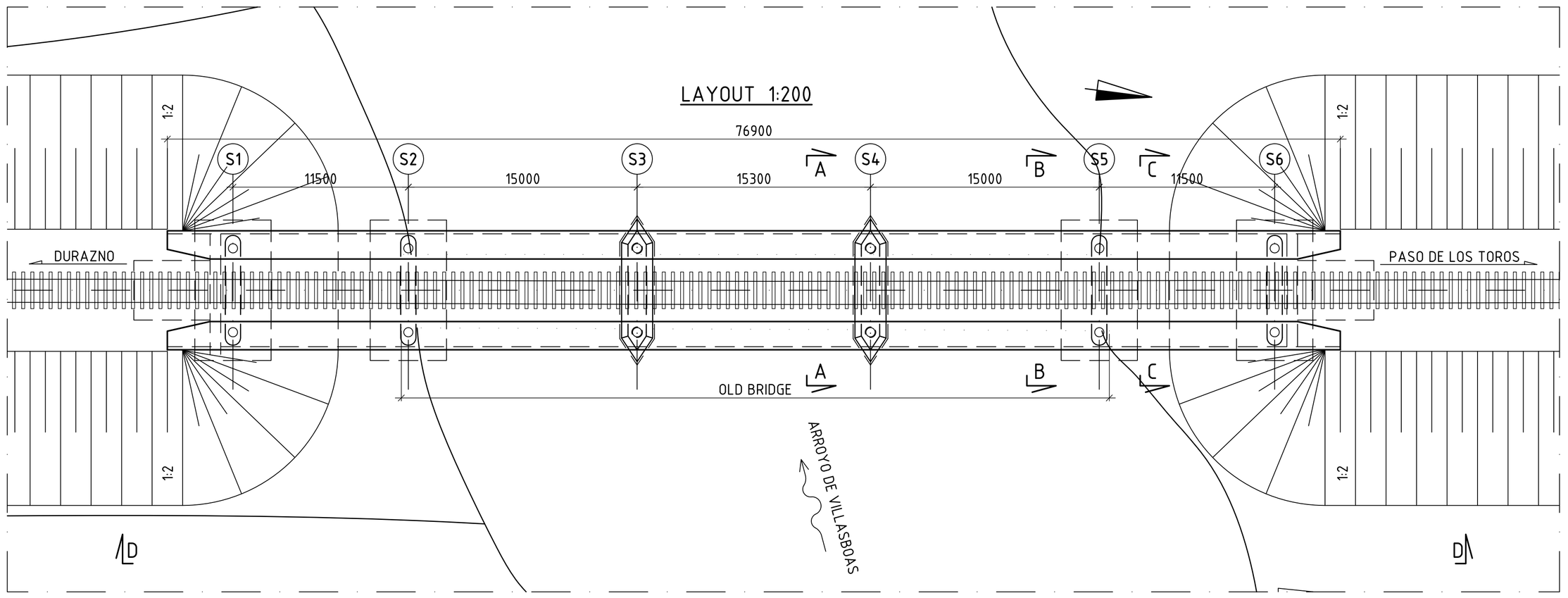
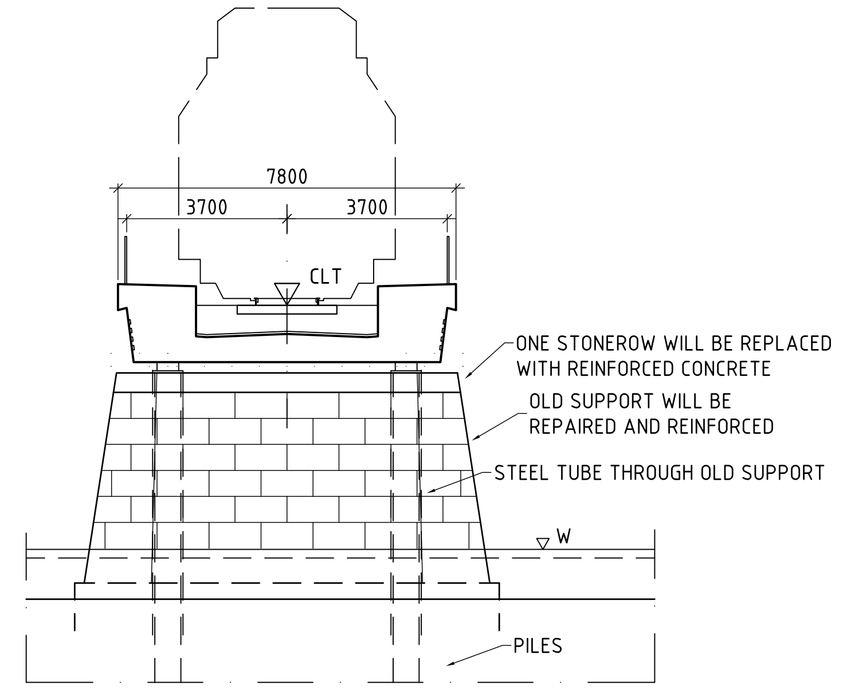
PROFILE D-D 1:200



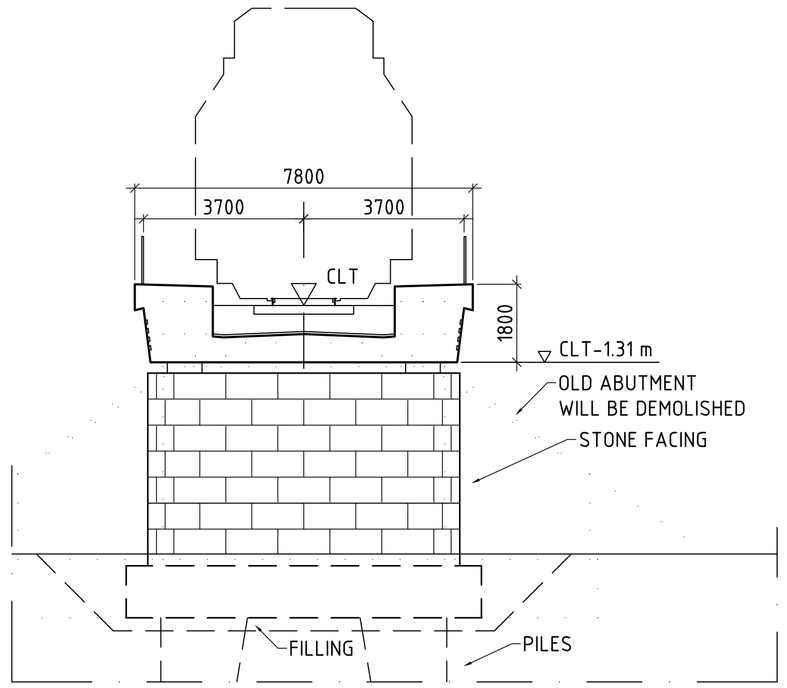
LAYOUT 1:200



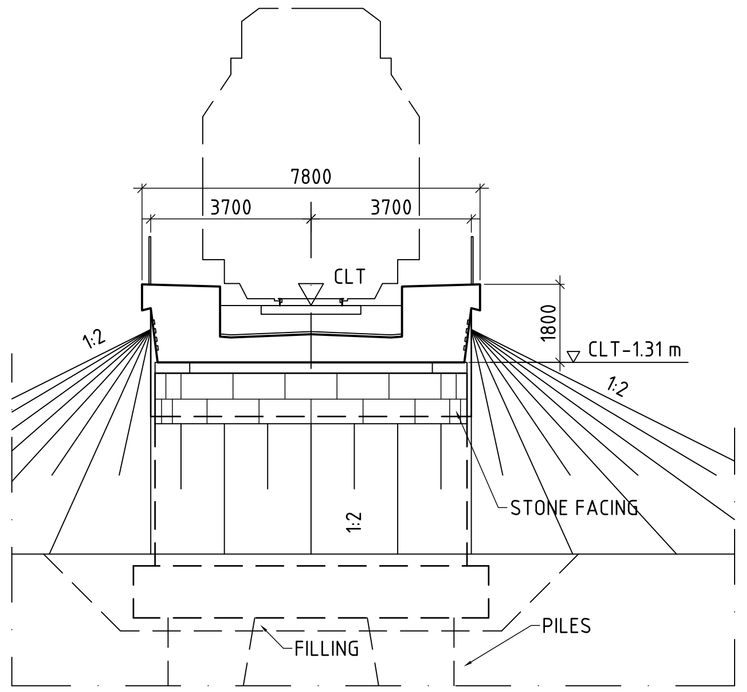
CROSS SECTION A-A 1:100



CROSS SECTION B-B 1:100



CROSS SECTION C-C 1:100



CONCRETE:	C40/50, Cmin=40 mm
REINFORCING STEEL:	B500B
PILES / FOUNDATION:	PILES, FOUNDATIONS AND FILLINGS WILL BE DIMENSIONED IN DETAILED DESIGN PHASE
TRANSITION SLABS:	PREFABRICATED TRANSITON SLABS 5,0 m OR CAST IN SITU 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

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

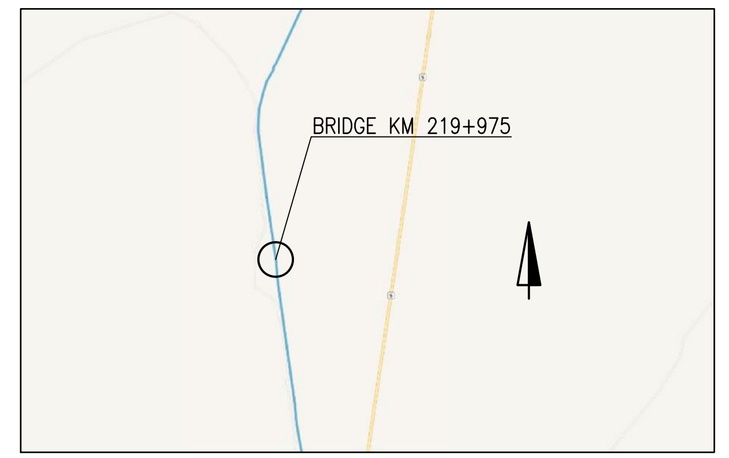
ESTIMATED CONCRETE

SUBSTRUCTURE:	520 m3	SUPERSTRUCTURE:	625 m3
TRANSITION SLABS:	14 m3		

ESTIMATED REINFORCING STEEL

SUBSTRUCTURE:	79000 kg	SUPERSTRUCTURE:	100000 kg

RAILING	152 m
BEARINGS	12 pcs



BRIDGETYPE	CONTINUOUS CONCRETE GIRDER BRIDGE		
SPANS	11.5+ 15.0 + 15.3 + 15.0 + 11.5 m		
HORIZONTAL CLEAR SPAN	-	VERTICAL CLEARANCE	-
HORIZONTAL CLEARANCE	-		

VERSION 15.12.2017

Revision	Explanation	Date	Designer	Date	Acceptor

Customer: MINISTERIO DE TRANSPORTE Y OBRAS PÚBLICAS

Supplier: VR TRACK

Project: Railway Project

Design phase: Pre-engineering, Phase 2

Context: Villasboas railway bridge
Preliminary general drawing
Km+m 219+975

Drawer	15.12.2017	Tomi Weckman
Designer	15.12.2017	Tomi Weckman
Supervisor	15.12.2017	Reima Niklander
Accept.		
Cust. acc.		

Loading: LM71-25
Coordinate and elevation reference system: WGS 84 UTM 21
Railway line:

Archive	Type	Number	Rev.	Sheet
			-	1