



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



PHOTO 8



PHOTO 9



PHOTO 10



PHOTO 11



PHOTO 12



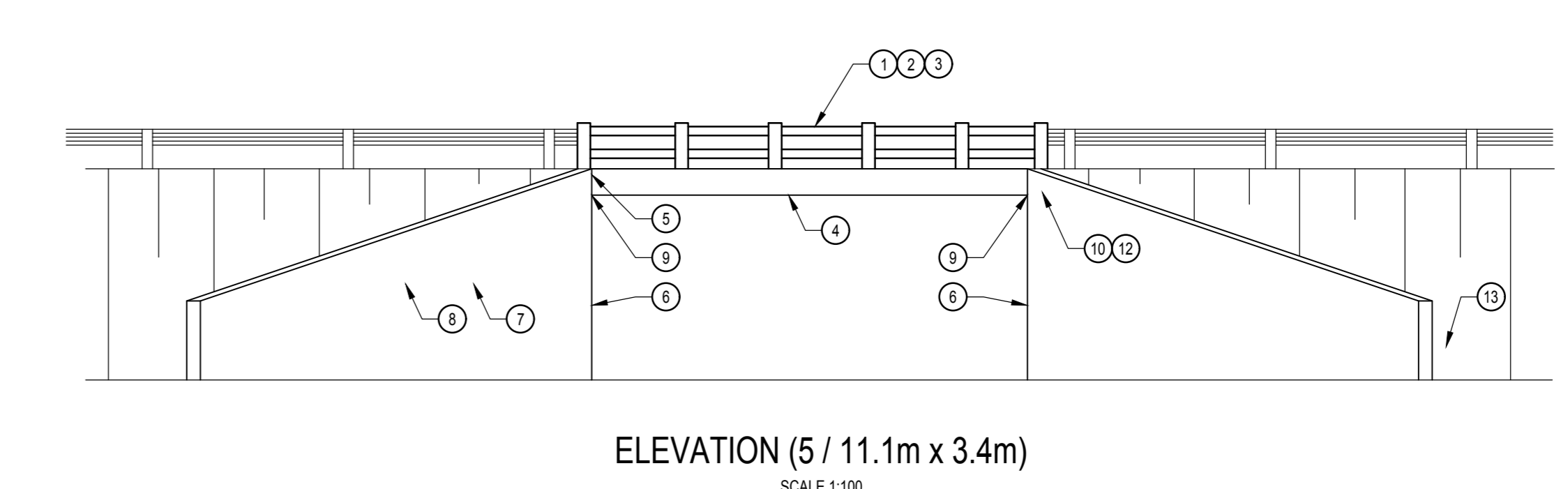
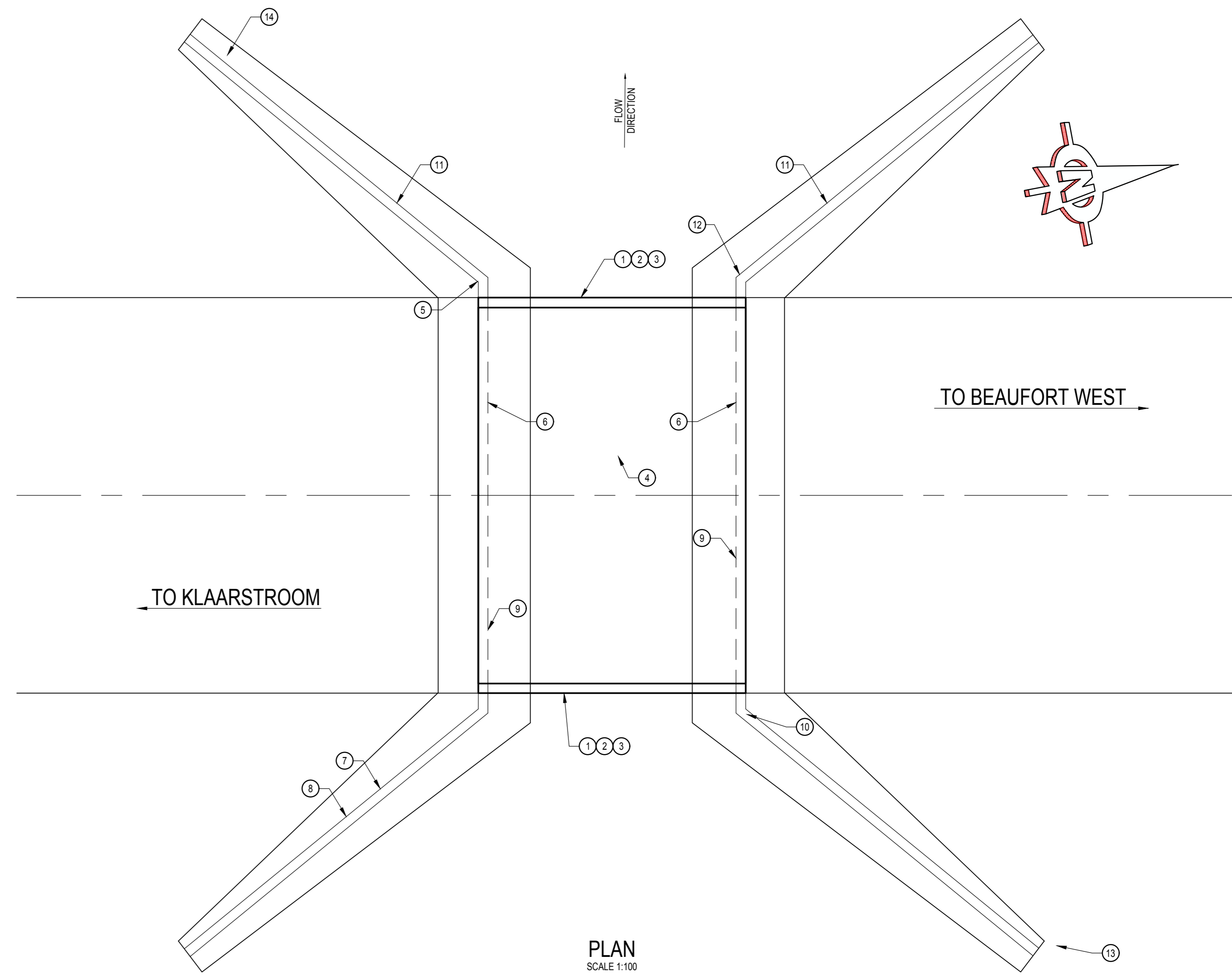
PHOTO 13



PHOTO 14

DEFECTS AND REPAIR STRATEGY FOR BRIDGE No. 4048						
DEFECT	PHOTO REFERENCE	REPAIR STRATEGY	REFERENCE DRAWINGS	REFERENCE DETAILS	PAYMENT ITEMS	*RECOMMENDED PRODUCTS
CONCRETE DELAMINATION AND REBAR CORROSION TO ALL BALUSTRADES	1-2	REPAIR CONCRETE DELAMINATION AND REBAR CORROSION TO BALUSTRADES	34161.00C-215-04-101	DETAIL 4	B123.03	SIKA TOP-ARMATEC 110EC, SIKA MONO TOP-615HB AND ANTISO-15
LONGITUDINAL DECK CRACKS (0.5-5mm)	3	CRACK REPAIR INCLUDING SEALING AND INJECTING OF CRACKS, TO METHOD 2	34161.00C-215-04-100	DETAIL 3	121.04, 124.05	SKADUR-33 CF NORMAL, SKADUR-52 ZA
MODERATE DAMAGE TO DECK EDGE AND UPSTAND BEAM	4-5	REPAIR SPALLED CONCRETE ON DECK EDGE	34161.00C-215-04-100	DETAIL 1	121.04, B123.03	SIKA TOP-ARMATEC 110EC, SIKA MONO TOP-615HB AND ANTISO-15
GENERAL VERTICAL WALL CRACKS (0.5-5mm)	6	CRACK REPAIR INCLUDING SEALING AND INJECTING OF CRACKS, TO METHOD 2	34161.00C-215-04-100	DETAIL 3	121.04, 124.05	SKADUR-33 CF NORMAL, SKADUR-52 ZA
MAJOR DIAGONAL CRACK IN SOUTH-EAST WINGWALL (5mm)	7	CRACK FILLING TO METHOD 3	34161.00C-215-04-100	DETAIL 3	124.07	SKADUR-52 ZA, SIKA TOP-ARMATEC 110EC, SIKA MONO TOP-615HB AND ANTISO-15
MODERATE TO SEVERE SPALLING OF WINGWALL AND ABUTMENT CONCRETE	8-9	REPAIR SPALLED CONCRETE ON DECK EDGE	34161.00C-215-04-100	DETAIL 1, DETAIL 2	121.01, B123.03	SIKA TOP-ARMATEC 110EC, SIKA MONO TOP-615HB AND ANTISO-15
SEVERE WINGWALL CORNER CRACKING AND SPALLING DUE TO DECK MOVEMENT	10-12	DEMOLISH AND RECONSTRUCT TOP CORNER OF NORTHERN WING WALLS	34161.00C-215-04-101	DETAIL 7	21.04, 64.06, 63.01, 62.02, 64.01	-
WESTERN WINGWALLS OF POOR CONCRETE QUALITY	11	TEST FOR COMPRESSIVE STRENGTH TO DETERMINE THE CONCRETE QUALITY AND IF THE STRUCTURE HAS ADEQUATE LOAD BEARING CAPACITY	-	-	81.02	-
WATERWAY EROSION AT NORTH-EASTERN WINGWALL	13	CONSTRUCT GABION WALL AND BACKFILL ERODED AREA AT WINGWALL	34161.00C-215-04-105	DETAIL 13	52.01, 52.02, 52.03, 52.04, 66.21, 66.23	-
VEGETATION IN WATERWAY	14	CLEAR VEGETATION IN WATERWAY	-	-	1212.02	-

*NOTE: LISTED REPAIR PRODUCTS ARE FOR ILLUSTRATIVE PURPOSES ONLY. SIMILAR APPROVED PRODUCTS MAY BE USED. REFER TO RELEVANT PROJECT SPECIFICATIONS.



No.	DATE	ADDITIONS AND AMENDMENTS	APPROVED		DESIGNED BY:	C. de KOCK
			CONS. ENG.	PRE		
V1	30.10.20	ORIGINAL VERSION	AG		CHECKED BY:	M. KATHRADA
					DRAWN BY:	G. vd SCHYFF
					CHECKED BY:	A. SMT



CONSULTING ENGINEERS
DATE _____



APPROVED
THIS APPROVAL IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWSOEVER ARISING
PROVINCIAL ROADS ENGINEER
DATE _____

PROPOSED REPAIR OF BRIDGE No. 4048 ON TRUNK ROAD 3305 AT KM22.78 OVER MODDERDRIFT STREAM
DEFECTS AND REPAIR STRATEGY

P.R.E.'s FILE No. 16/64/1/4-TR03305-C1183	SCALE AS SHOWN
CONTRACT No. C1183	WCG STRUCTURES PLAN No. 4048
CONSULTANT'S PLAN No. 34161.00C-215-04-19	WCG INDEX No. VER V1