



LEVELS										
GRID NO.	CHANGE IN (m)	GROUND LEVEL (m)	SPAN IN (m)	GRADIENT 1:1	FINISHED ROAD LEVEL (m)	PIER CAP TOP LEVEL (m)	PIER TOP LEVEL (m)	FOOTING TOP LEVEL (m)	FOOTING DEPTH (m)	FOOTING BOTTOM LEVEL (m)
END	-830.000	95.136	324.000	40.000	103.111	100.940	99.190	93.723	1.800	92.123
AU	-520.000	96.623	20.000	40.000	103.811	101.340	99.690	94.202	1.800	92.402
PU25	-500.000	96.902	20.000	40.000	103.511	101.340	99.690	94.116	1.800	92.516
PU24	-480.000	97.016	20.000	40.000	103.511	101.340	99.690	93.556	1.800	91.956
PU23	-460.000	96.456	20.000	40.000	103.511	101.340	99.690	91.206	1.800	89.606
PU22	-440.000	94.106	20.000	40.000	103.511	101.340	99.690	91.769	1.800	90.169
PU21	-420.000	94.668	20.000	40.000	103.511	101.340	99.690	92.669	1.800	91.069
PU20	-400.000	95.369	20.000	40.000	103.511	101.340	99.690	92.869	1.800	91.069
PU19	-380.000	95.598	20.000	40.000	103.511	101.340	99.690	92.869	1.800	91.069
PU18	-360.000	95.638	20.000	40.000	103.511	101.340	99.690	93.136	1.800	91.336
PU17	-340.000	95.513	20.000	40.000	103.511	101.340	99.690	93.813	1.800	92.013
PU16	-320.000	97.368	20.000	40.000	103.511	101.340	99.690	94.666	1.800	92.866
PU15	-300.000	97.296	20.000	40.000	103.511	101.340	99.690	94.596	1.800	92.796
PU14	-280.000	98.838	20.000	40.000	104.111	101.840	100.190	94.136	1.800	92.336
PU13	-260.000	98.598	20.000	40.000	104.811	102.340	100.690	93.866	1.800	92.066
PU12	-240.000	98.489	20.000	40.000	105.111	102.840	101.190	93.799	1.800	91.999
PU11	-220.000	98.519	20.000	40.000	106.111	103.840	102.190	94.223	1.800	92.423
PU10	-200.000	98.923	20.000	40.000	106.111	103.840	102.190	94.223	1.800	92.423
PU9	-180.000	96.750	20.000	40.000	106.611	104.340	102.690	94.050	1.800	92.250
PU8	-160.000	97.495	20.000	40.000	107.111	104.840	103.190	94.795	1.800	92.995
PU7	-140.000	97.123	20.000	40.000	107.611	105.340	103.690	94.423	1.800	92.623
PU6	-120.000	95.605	20.000	40.000	108.111	105.840	104.190	92.905	1.800	91.105
PU5	-100.000	94.578	20.000	40.000	108.611	106.340	104.690	91.678	1.800	89.878
PU4	-80.000	94.650	20.000	40.000	109.111	106.840	105.190	92.150	1.800	90.350
PU3	-60.000	95.099	20.000	40.000	109.611	107.340	105.690	93.389	1.800	91.589
PU2	-40.000	96.958	20.000	40.000	110.111	107.840	106.190	94.258	1.800	92.458
PU1	-20.000	96.769	20.000	40.000	110.611	108.340	106.690	94.069	1.800	92.269
RA1	0.000	97.098	0.000	0.000	111.111					
RA2	25.200	0.000	25.200	0.000	111.111					
RA3	37.200	0.000	37.200	0.000	111.111					
RA4	37.200	0.000	37.200	0.000	111.111					
RA5	25.200	0.000	25.200	0.000	111.111					
RA6	0.000	97.019	25.200	0.000	111.111					
RA7	29.000	97.380	20.000	40.000	110.611	108.340	106.690	94.680	2.000	92.680
RA8	40.000	95.170	20.000	40.000	110.111	107.840	106.190	92.670	2.000	90.670
RA9	60.000	95.583	20.000	40.000	109.611	107.340	105.690	93.083	2.000	91.083
RA10	80.000	96.870	20.000	40.000	109.111	106.840	105.190	94.370	2.000	92.370
RA11	100.000	97.146	20.000	40.000	108.611	106.340	104.690	94.646	2.000	92.646
RA12	120.000	97.336	20.000	40.000	108.111	105.840	104.190	94.636	1.800	92.636
RA13	140.000	97.584	20.000	40.000	107.611	105.340	103.690	94.884	1.800	93.084
RA14	160.000	97.839	20.000	40.000	107.111	104.840	103.190	95.139	1.800	93.339
RA15	180.000	98.093	20.000	40.000	106.611	104.340	102.690	95.193	1.600	93.593
RA16	200.000	98.505	20.000	40.000	106.111	103.840	102.190	95.805	1.600	94.205
RA17	220.000	98.912	20.000	40.000	105.611	103.340	101.690	96.012	1.600	94.412
AA	240.000	99.226	20.000	40.000	105.111	102.840	101.190	96.226	1.600	94.626
END	380.000	101.511	140.000	40.000	101.511					

STRUCTURAL & OTHER DATA: (FOR APPROACHES)

- SPAN ARRANGEMENT : 26x20m RAILWAY PORTION + 12x20m c/c EXP. JOINT
- SUPER STRUCTURE : RCC T-GIRDER + RC DECK SLAB
- SUB STRUCTURE : RCC PIER, PER CAP, ABUTMENT, ABUTMENT CAP, DIRT WALL, RETAINING WALL, RE WALL
- FOUNDATION : OPEN FOUNDATION
- BEARINGS : ELASTOMERIC BEARING
- WEARING COAT : 65mm THK. WEARING COAT
- EXPANSION JOINT : STRIP SEAL EXPANSION TYPE
- DRAINAGE SPOUTS : AT 5.0m c/c
- CRASH BARRIER : AS PER IRC-5
- VERTICAL JOINT : 12mm THICK PREMOULDED ASPHALT PAD

CONCRETE GRADE: (FOR APPROACHES)

- OPEN FOUNDATION : M35
- PIER, PER CAP, ABUTMENT, ABUTMENT CAP, DIRT WALL : M35
- RCC T-GIRDER, CROSS GIRDER & END DIAPHRAGM : M40
- CRASH BARRIER, FRICTION SLAB : M40
- PEDESTALS & SEISMIC ARRESTER : M40
- DECK SLAB, RE WALL, FACE PANELS : M30
- RETAINING WALL, APPROACH SLAB : M30
- RC LEVELING COURSE : M15
- REINFORCEMENT GRADE : F4500 D

COVERS:

- OPEN FOUNDATION : 75mm
- PIER, PER CAP, ABUTMENT, ABUTMENT CAP & RETAINING WALL : 50mm
- RCC T-GIRDER, CROSS GIRDER, END DIAPHRAGM, CRASH BARRIER, NEW CRASH BARRIER, SEISMIC ARRESTER, PEDESTALS, FRICTION SLAB : 40mm

NOTES:

- ALL DIMENSIONS ARE IN METRE.
- DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.
- THE CONCRETE DIMENSIONS SHOWN IN THIS DRAWING ARE BASED ON PRELIMINARY DESIGN AND MAY MODIFY DURING FINAL DESIGN.
- ALL DRAINAGE SPOUT BOTTOMS SHALL BE TAKEN AT LEAST 300mm BELOW SOFFIT OF DECK SLAB & SHALL BE PROPERLY SUPPORTED AS DIRECTED BY THE ENGINEER-IN-CHARGE.

Deputy Executive Engineer, (R & B) Sub Division, VALSAD.

Executive Engineer, Valsad (R & B) Division, VALSAD.

Rajesh Shah, Hiral Jain, Deepak Patel

APPROVAL NAME	DATE	APPROVAL NAME	DATE
DESIGNER	08/03/17	CLIENT	08/03/17
CHECKED	08/03/17	PROJECT LEADER	08/03/17
DRAWN	08/03/17	DISCIPLINE	08/03/17

CLIENT: ROAD & BUILDING DIVISION, VALSAD

PROJECT: PROPOSED ROB IN LIEU OF LC NO. 68 AT km 149/22-24 (DFCC CH. 14922) BETWEEN STATIONS SANJAN TO BHILAD

TITLE: GENERAL ARRANGEMENT OF BRIDGE

SCALE: AS SHOWN

FILE NAME: 9140-BR1-GAD-101-RA GENERAL ARRANGEMENT OF BRIDGE 2017-04-12