

Environmental Impact Assessment

October 2020

India: Bengaluru Metro Rail Project

Phase 2B (Airport Metro Line)

KR Puram to Kempegowda International Airport

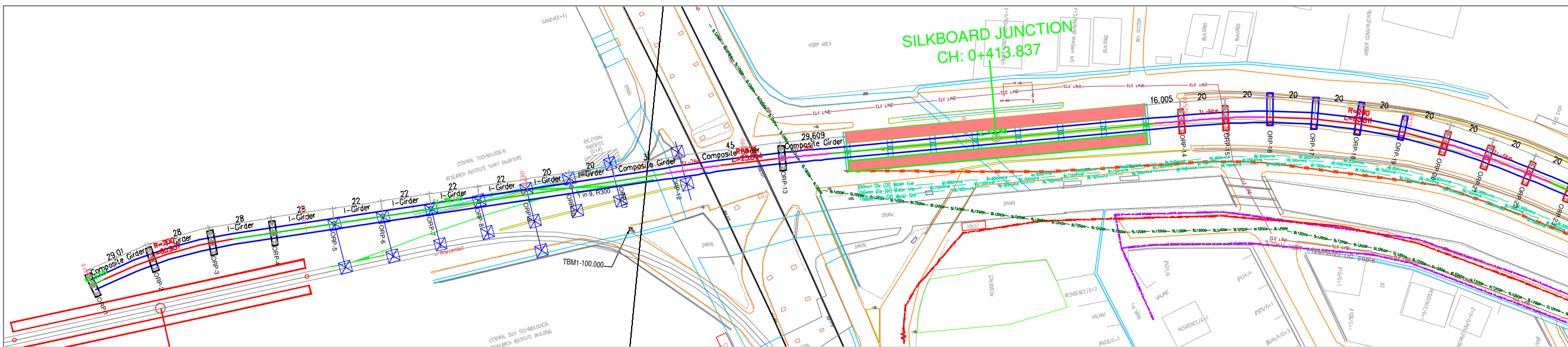
Volume 13
Annex 5

NOTES

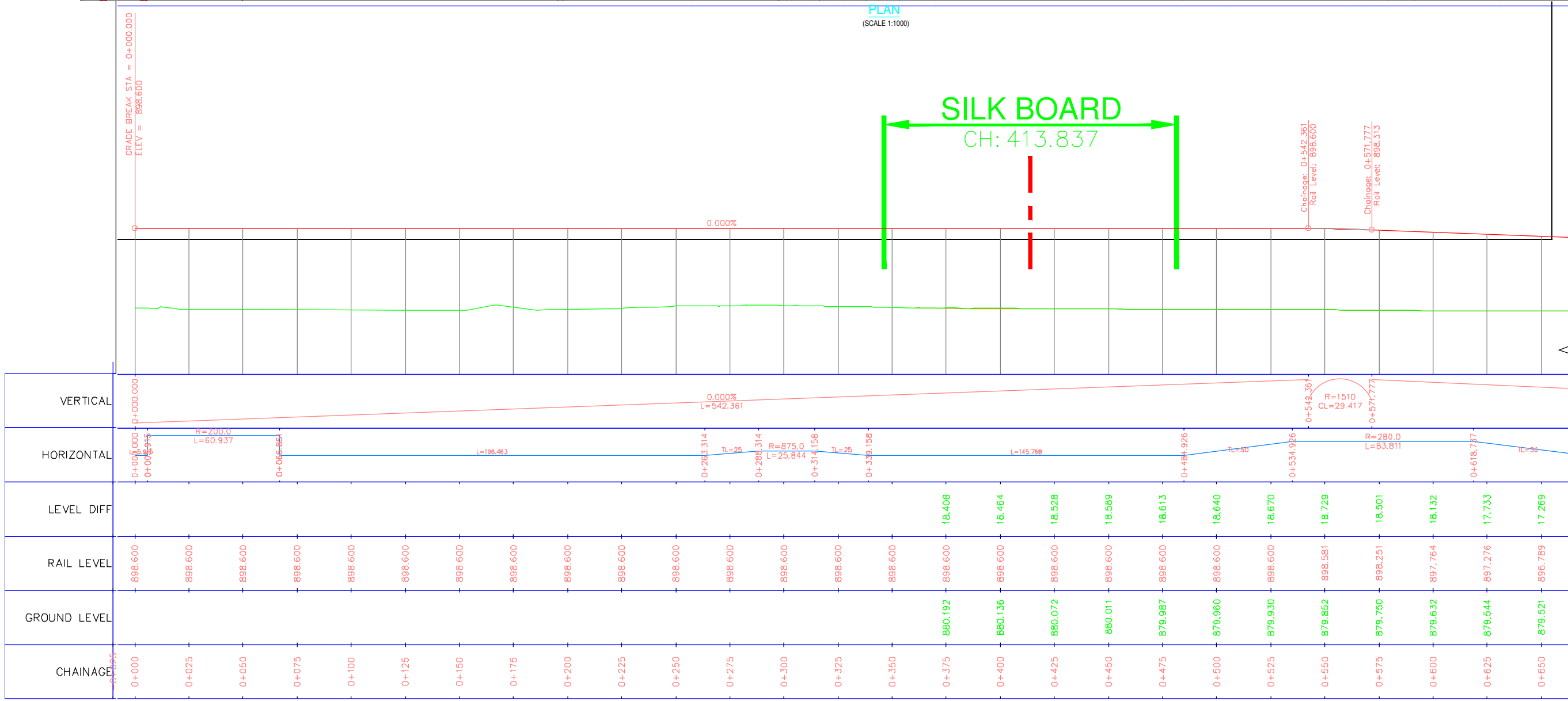
- (i) The fiscal year (FY) of the Government of India and its agencies ends on 31 March. "FY" before a calendar year denotes the year in which the fiscal year ends, e.g., FY2019 ends on 31 March 2019.
- (ii) In this report, "\$" refers to United States dollars.

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PLAN
(SCALE 1:1000)



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

LEGEND:

- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

- NOTES:**
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
 - FOLLOW FIGURED DIMENSIONS ONLY.

ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	DATE (RO ISSUE)	AS SHOWN	21/02/2018	PHASE IIA - ORR LINE (PACKAGE-1)	ISSUE
							SILK BOARD JUNCTION TO K.R PURAM <td>RO </td>	RO
							GENERAL ARRANGEMENT DRAWING (ORP1 - ORP23) <td>DATE (CURRENT ISSUE)</td>	DATE (CURRENT ISSUE)
							BMRCL/PH-IIA/ORR LINE/VDT/PP/001 <td>05/11/2019</td>	05/11/2019

BANGALORE METRO RAIL CORPORATION LTD

A. 3rd Floor, BMTC Complex,
K H Road, Shanthinagar,
Bangalore -560027
Tel:-080-22969300

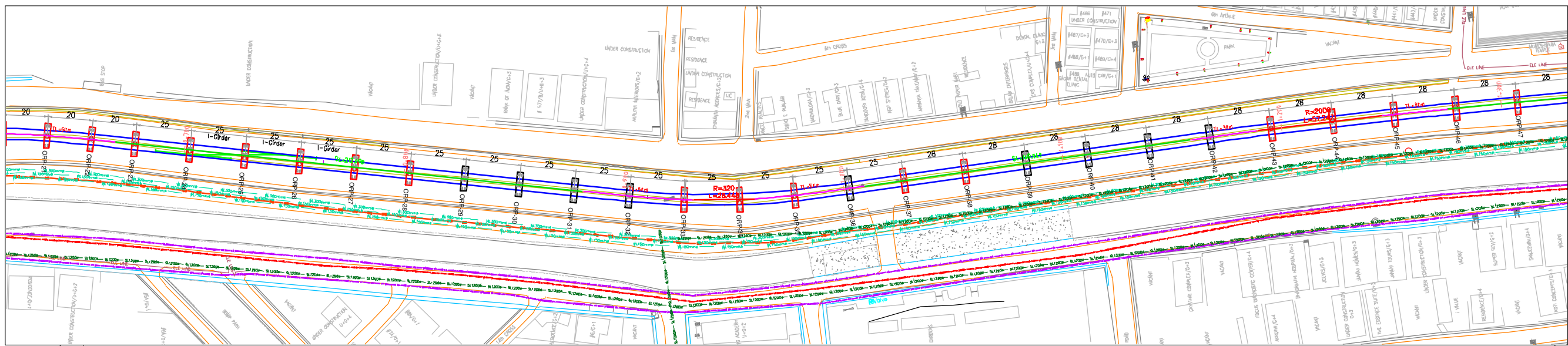
PHASE IIA - ORR LINE (PACKAGE-1)
SILK BOARD JUNCTION TO K.R PURAM

DWG. TITLE:
GENERAL ARRANGEMENT DRAWING (ORP1 - ORP23)

DWG NO:
BMRCL/PH-IIA/ORR LINE/VDT/PP/001

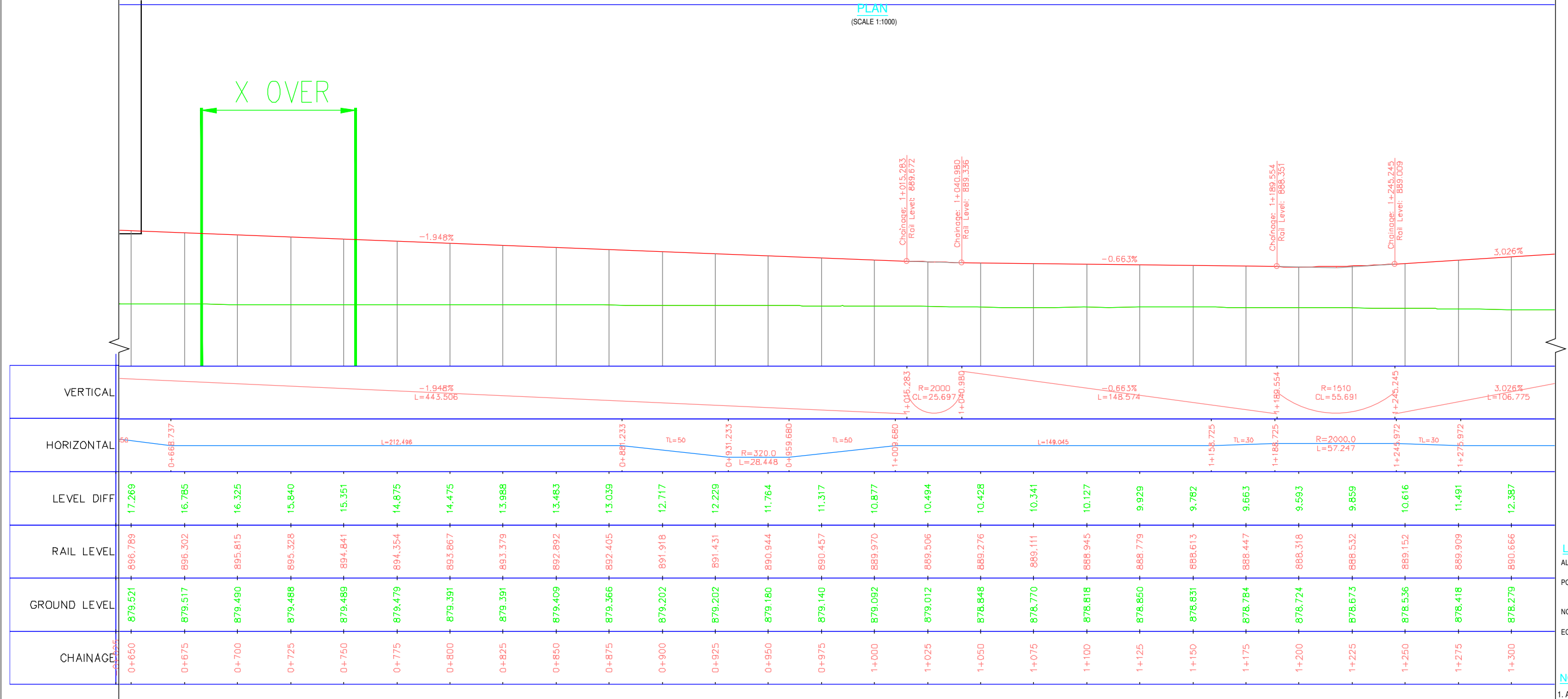
ISSUE
RO

DATE (CURRENT ISSUE)
05/11/2019



PLAN
(SCALE 1:1000)

X OVER



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

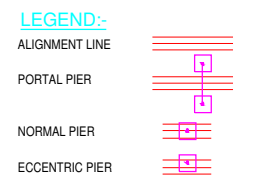
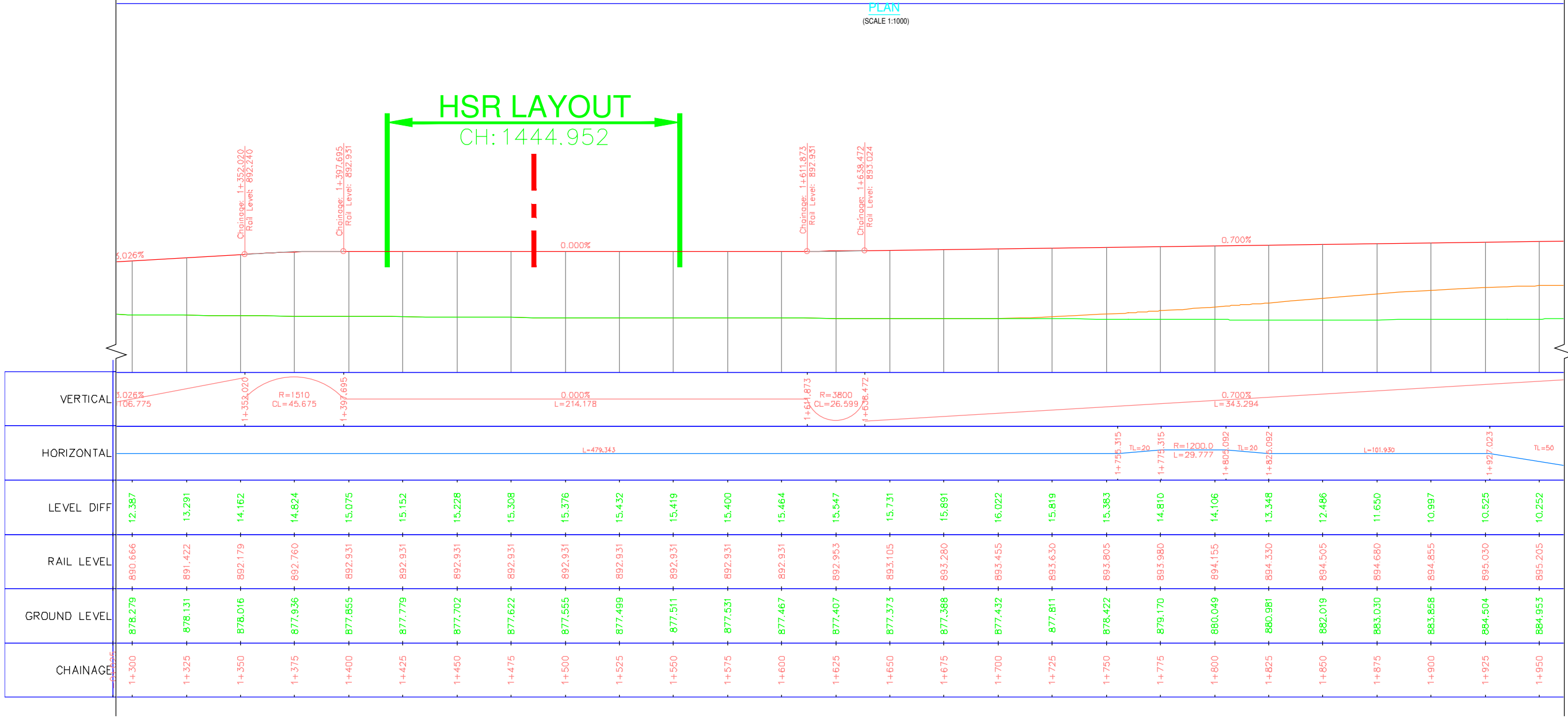
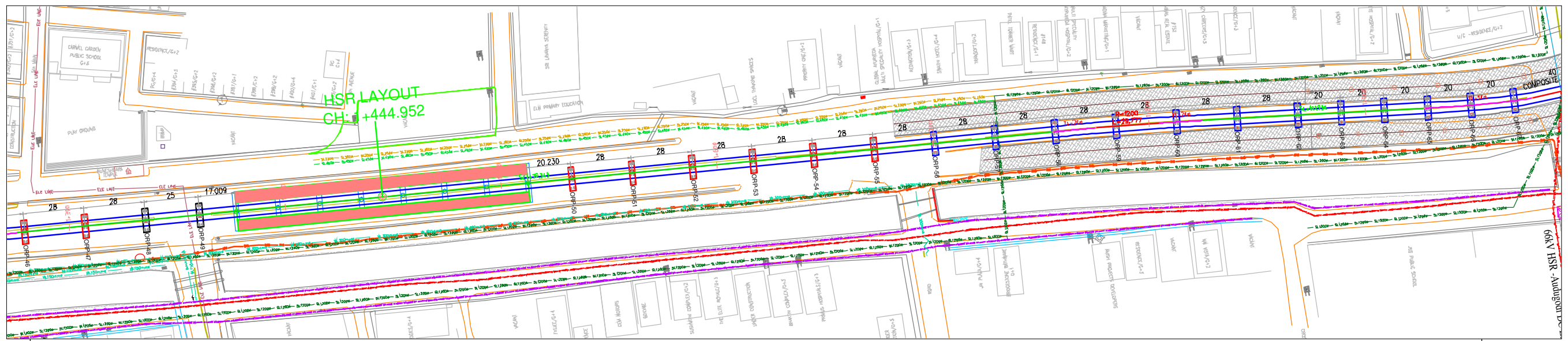
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LEGEND:

- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

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ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p> <p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP21 - ORP47)</p>	
			DATE (RO ISSUE) 21/02/2018		<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/002</p> <p>ISSUE RO</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



NOTES:

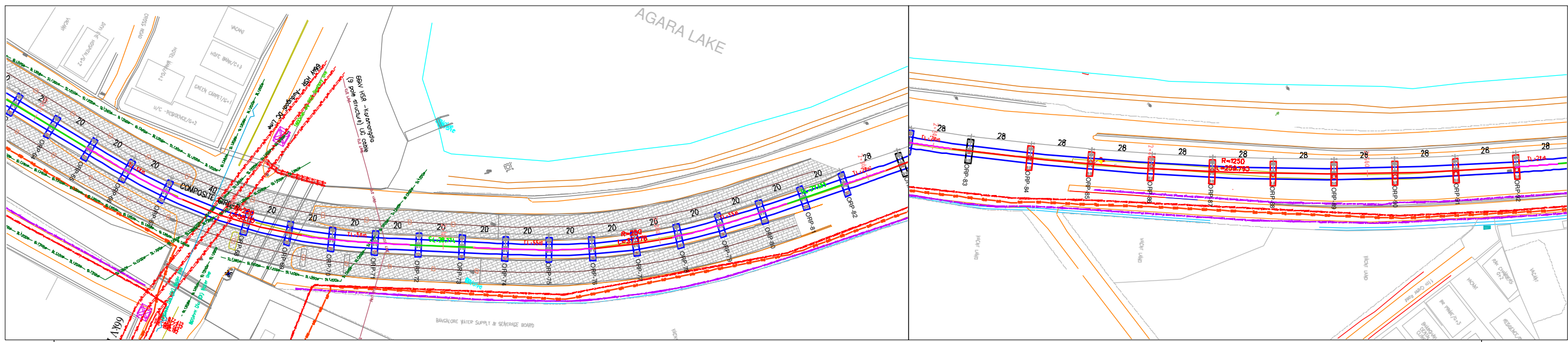
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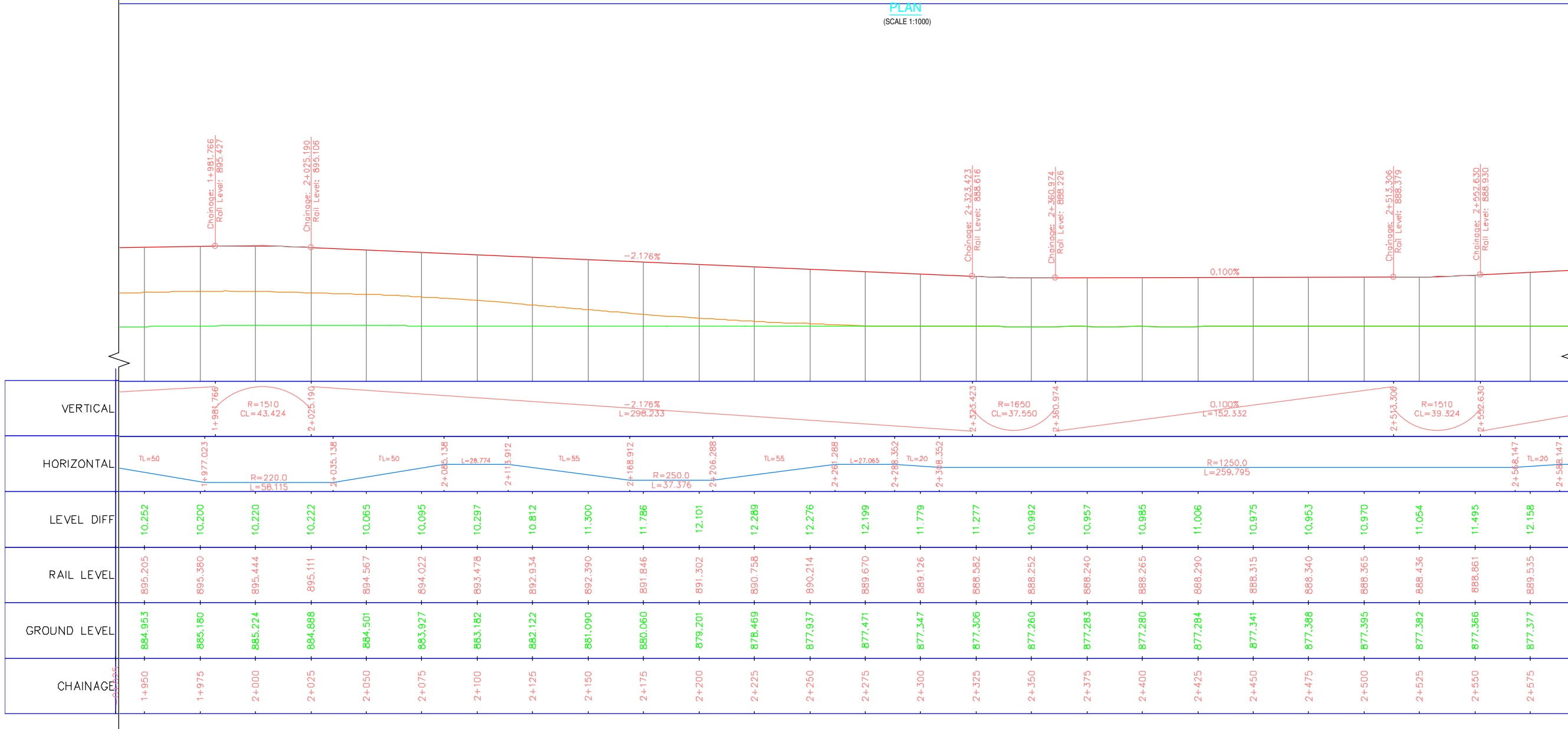
ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore - 560027 Tel: 080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p> <p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP46 - ORP67)</p>	
			DATE (NO ISSUE) 21/02/2018		<p>DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/003</p> <p>ISSUE RO</p> <p>DATE (CURRENT ISSUE) 05/11/2019</p>	

IF PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.

CONSTRUCTION / FABRICATION WORK IS PERMITTED ON UNRELEASED ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION - FIELD MUST GET DESIGN OFFICE TO CLEAR HOLDS IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLDS.



PLAN
(SCALE 1:1000)



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

LEGEND:

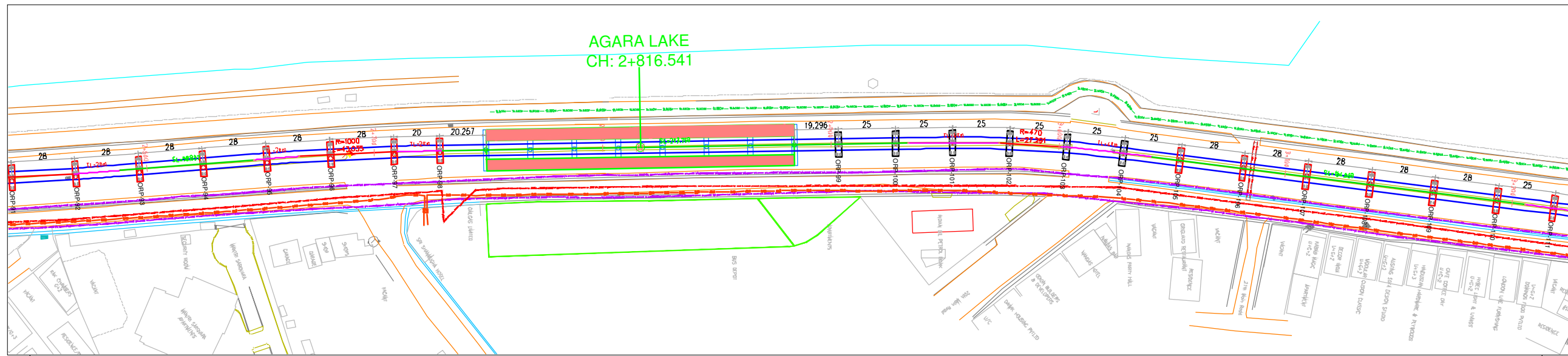
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

NOTES:

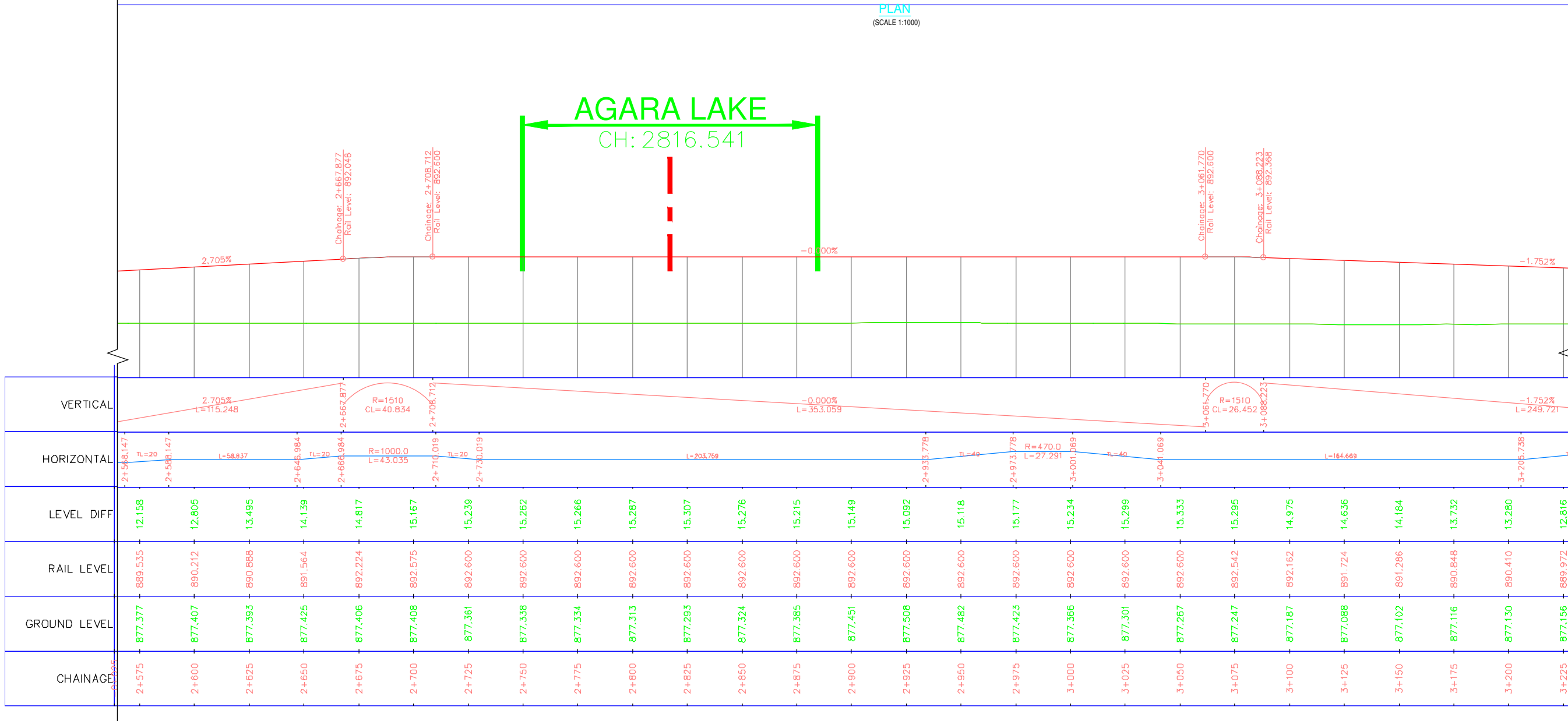
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ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (FOR ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP64- ORP92)</p>	
			<p>IF (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.</p> <p>CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IT IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.</p>		<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/004</p>	<p>ISSUE RO</p>
					<p>DRN:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



PLAN
(SCALE 1:1000)



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

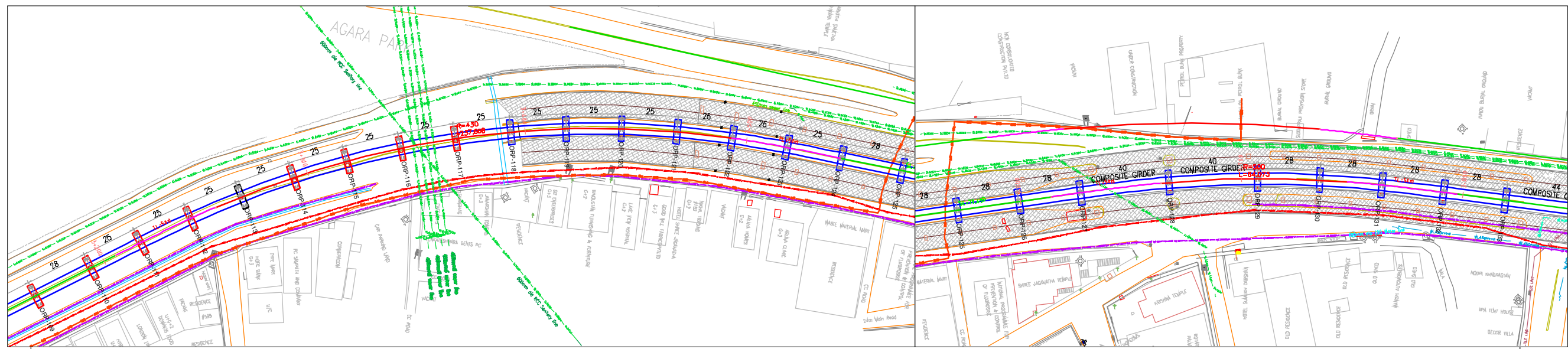
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

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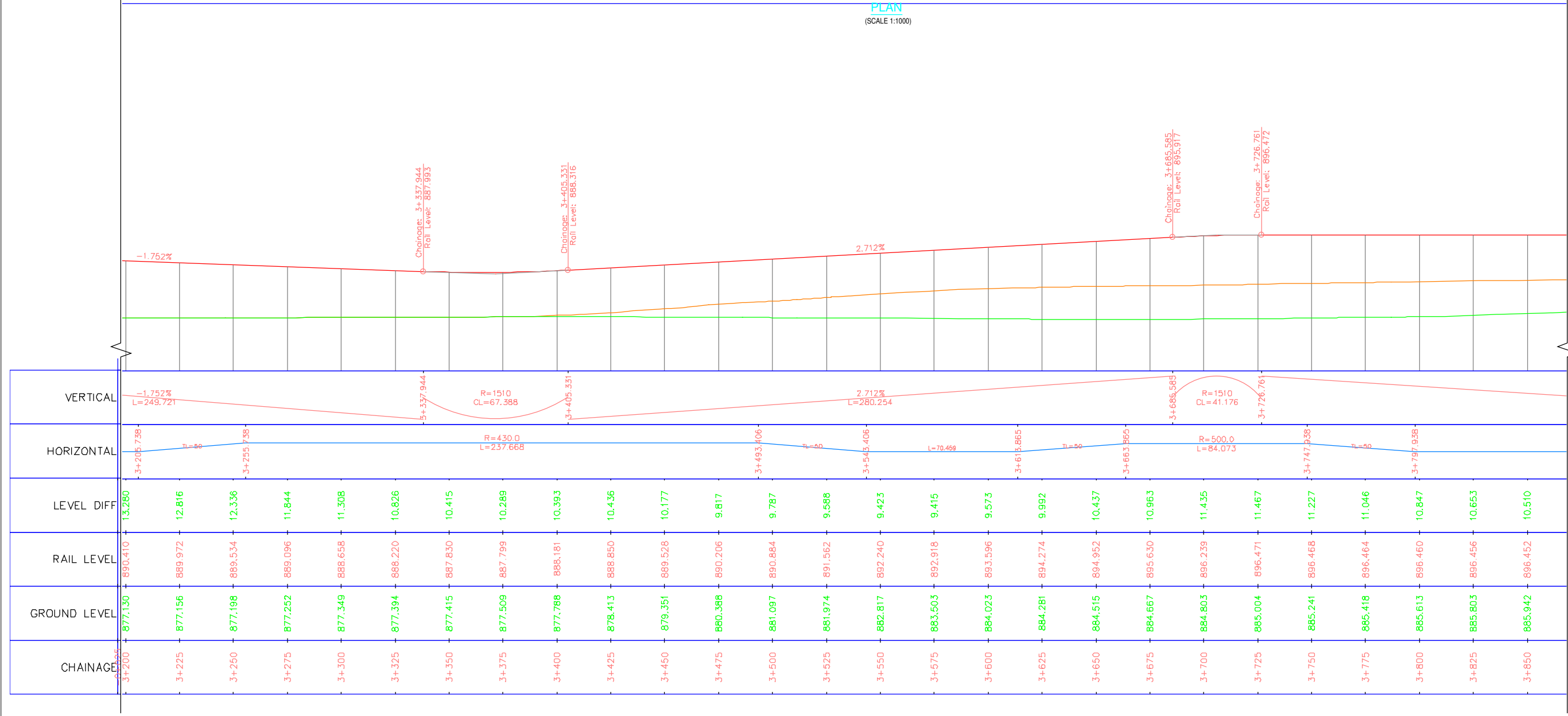
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

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			DATE (RO ISSUE) 21/02/2018		DWG. TITLE: BMRCL/PH-IIA/ORR LINE/VDT/PP/005 DWG NO: DRN:	ISSUE RO DATE(CURRENT ISSUE) 05/11/2019		



PLAN
(SCALE 1:1000)



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

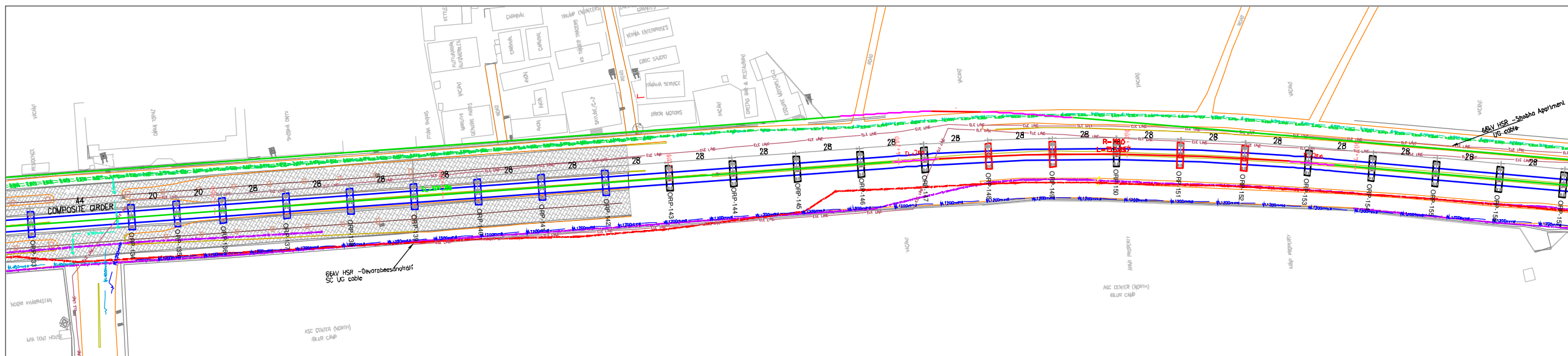
LEGEND:

- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

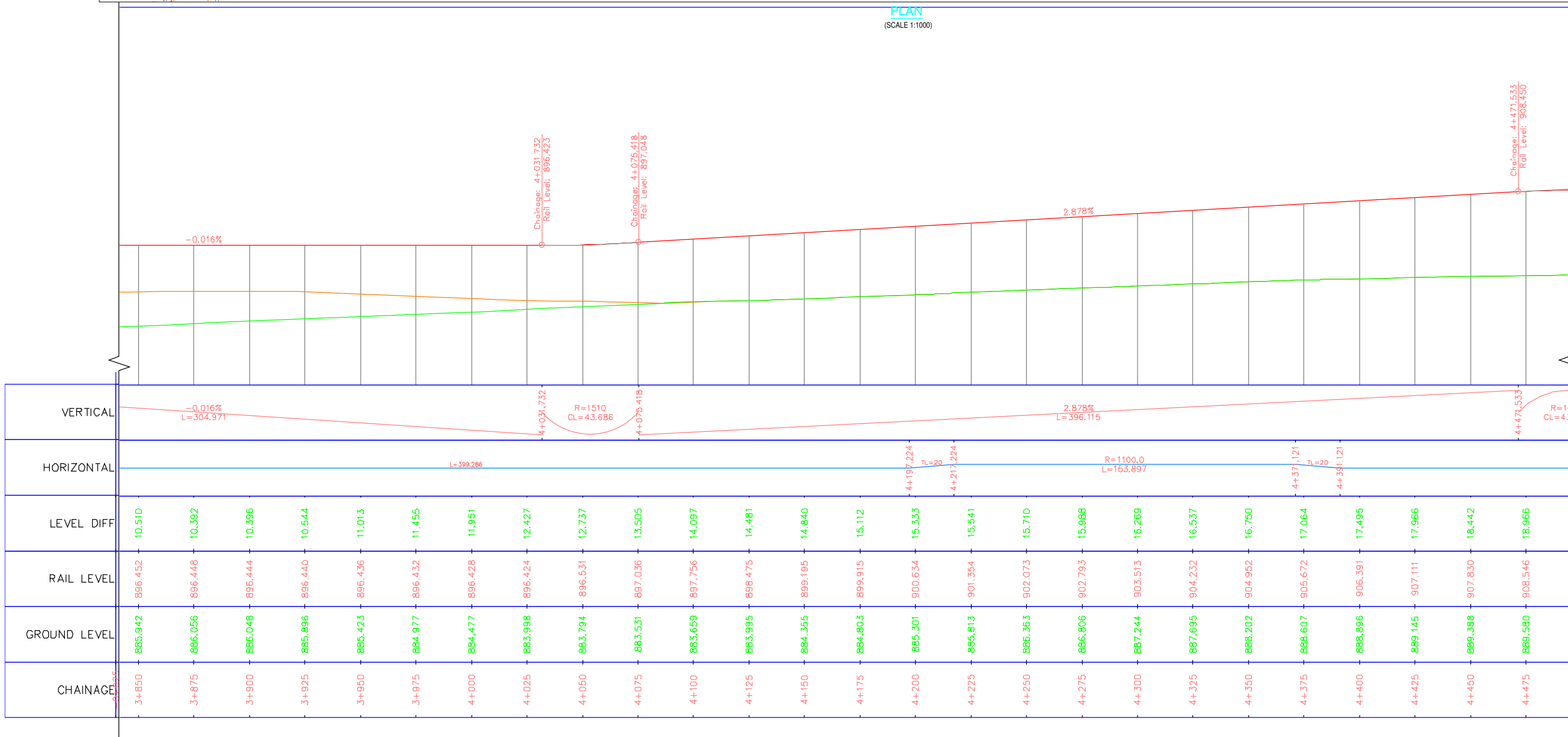
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ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (FOR ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP109- ORP133)</p>	
			<p>IF PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.</p> <p>CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.</p>		<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/006</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKD: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



PLAN
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LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

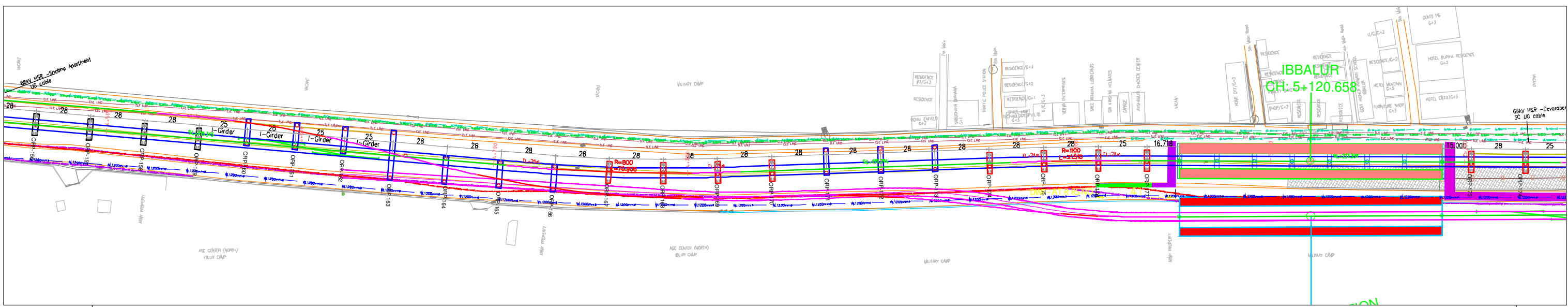
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LEGEND:

- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

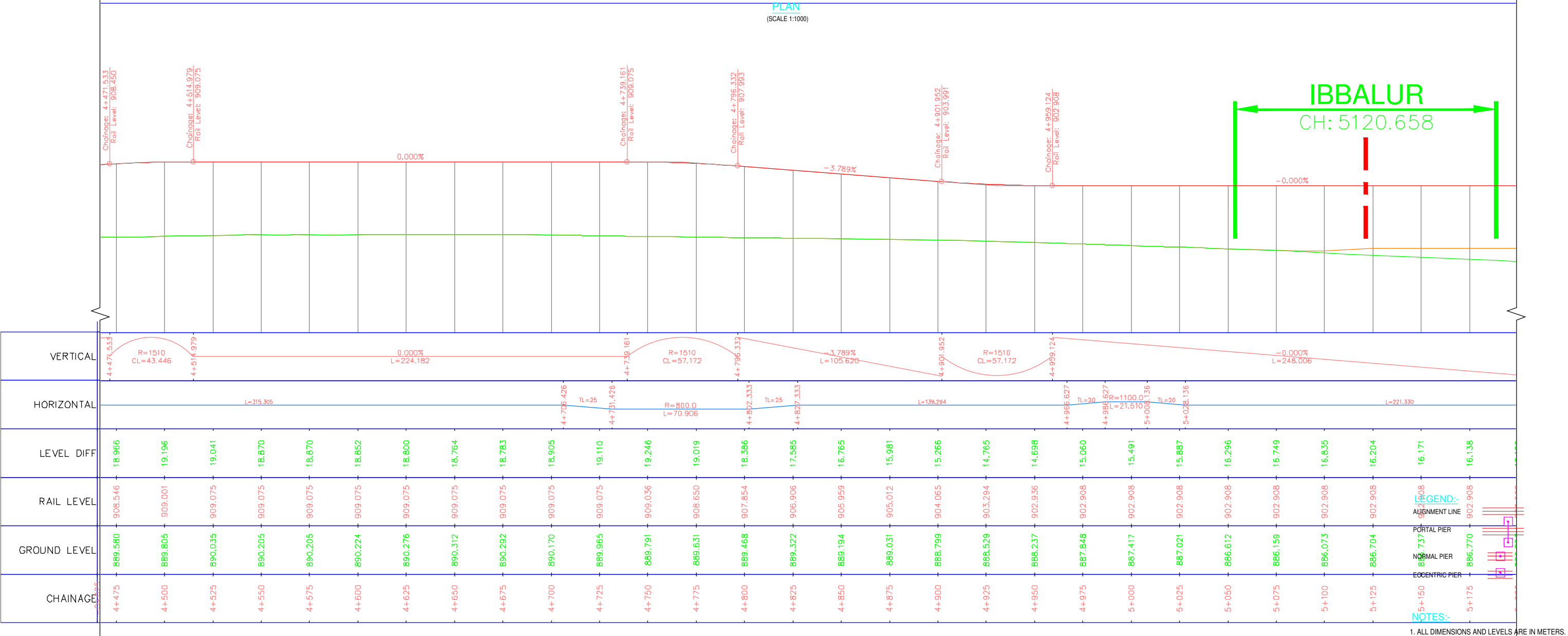
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			DATE (RD ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP133- ORP157)</p>	
			<p>IF (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.</p> <p>CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.</p>		<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/007</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKB: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



IBBALUR
CH: 5+120.658

IBBALUR
CH: 5120.658

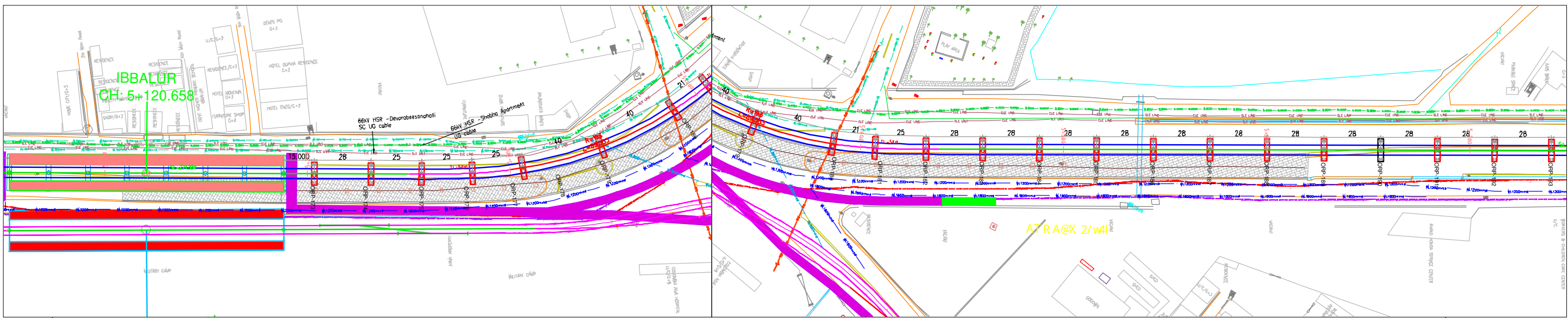


LEGEND:
ALIGNMENT LINE
PORTAL PIER
NORMAL PIER
ECCENTRIC PIER

NOTES:
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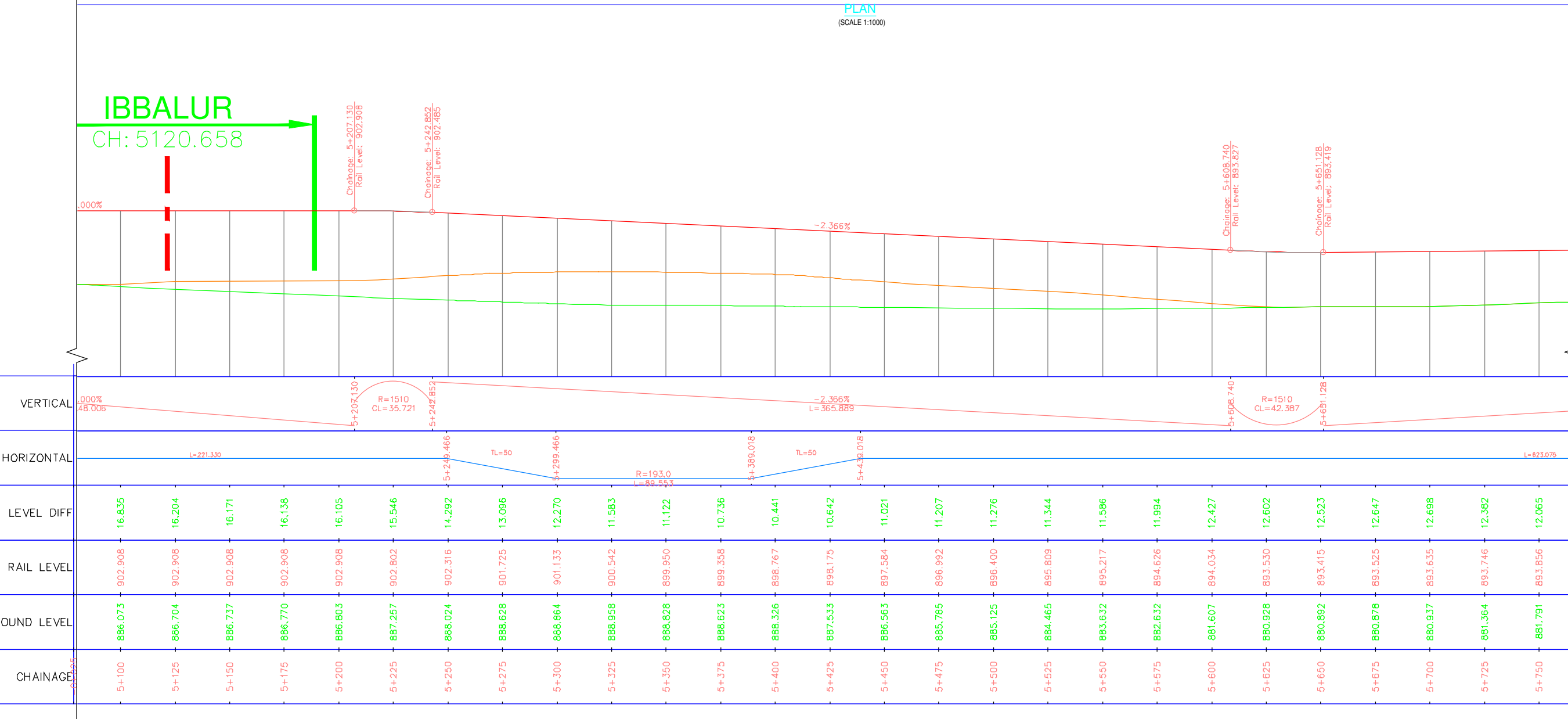
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p> <p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP156- ORP174)</p>
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PLAN
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IBBALUR
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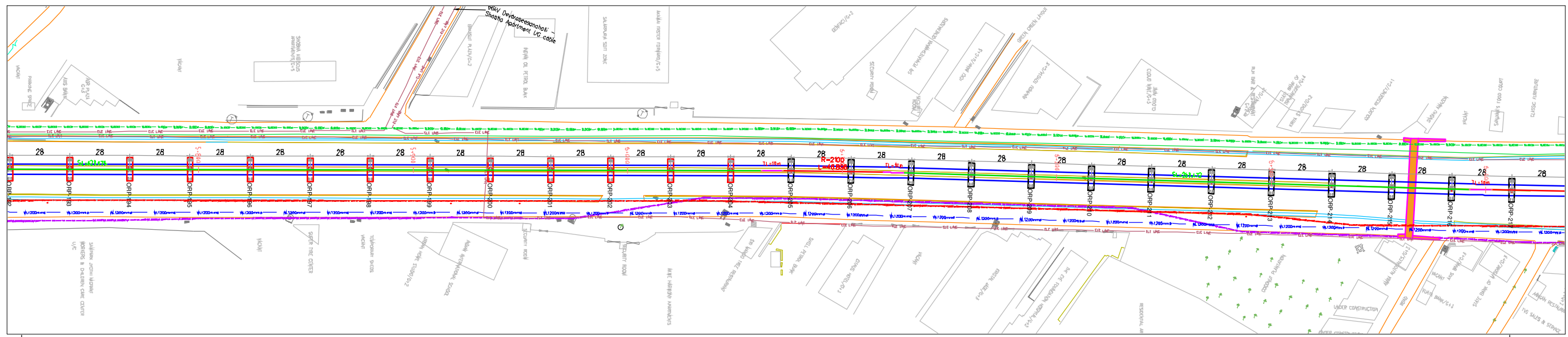
LONGITUDINAL ELEVATION
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ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

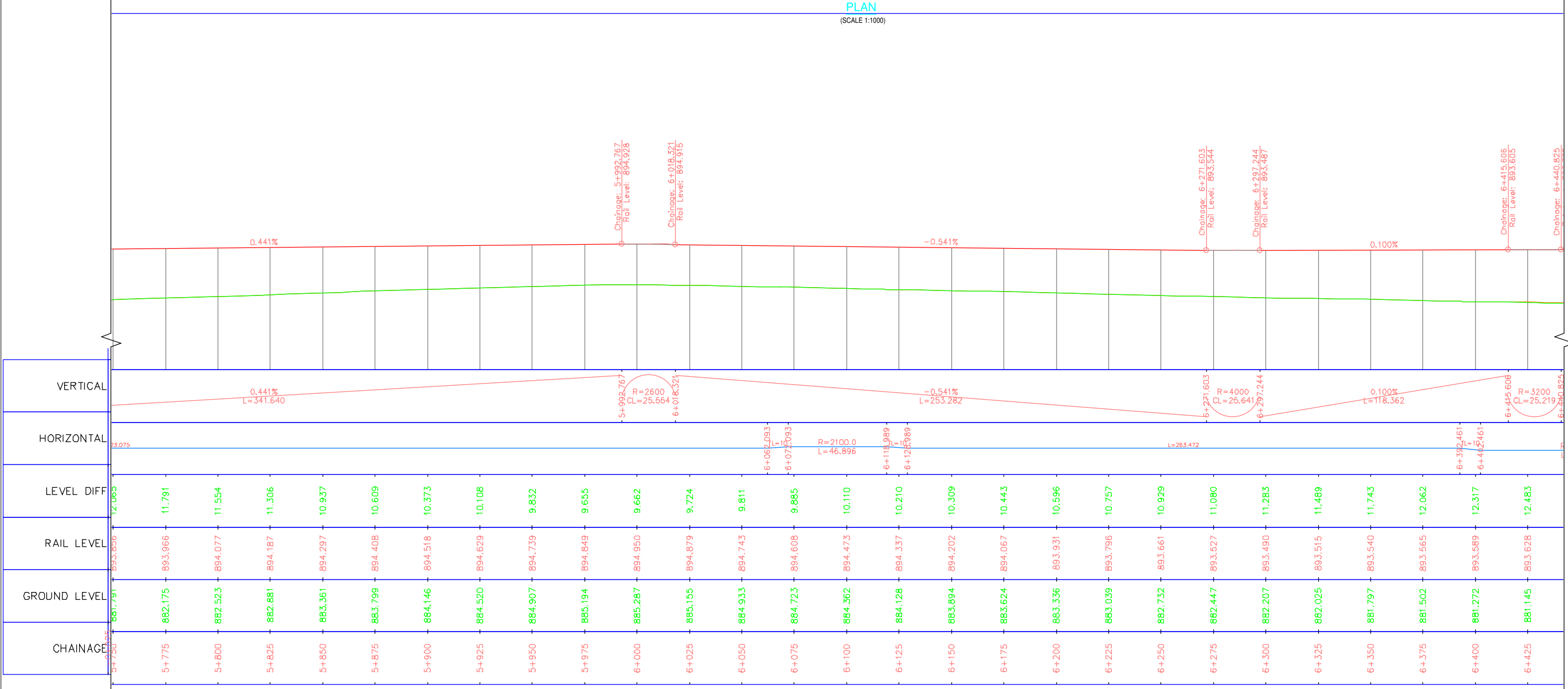
- LEGEND:**
- ALIGNMENT LINE
 - PORTAL PIER
 - NORMAL PIER
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			DATE (RD ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP173- ORP193)</p>	
			<p>IF PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.</p> <p>CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLDS IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLD'.</p>		<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/009</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKD: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



PLAN
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LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

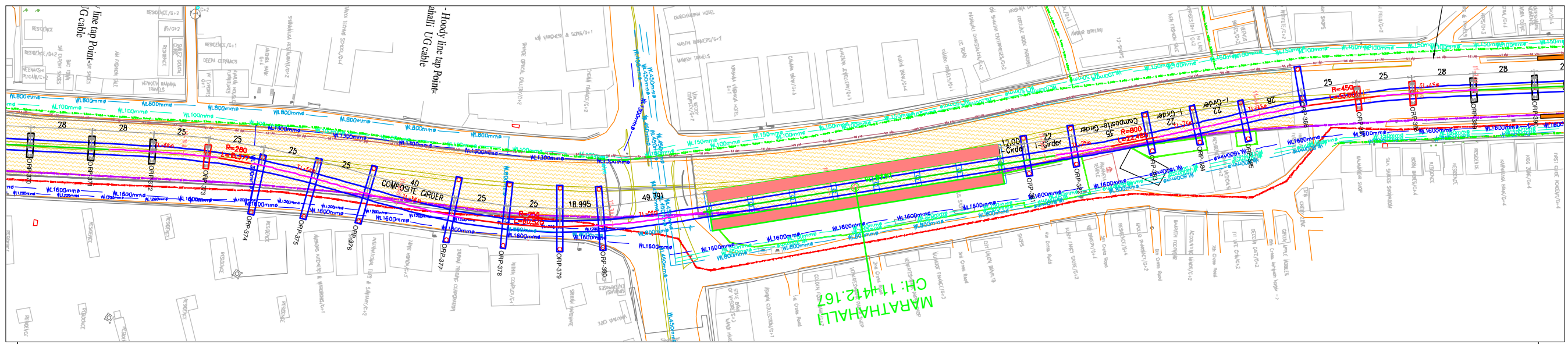
LEGEND:

- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

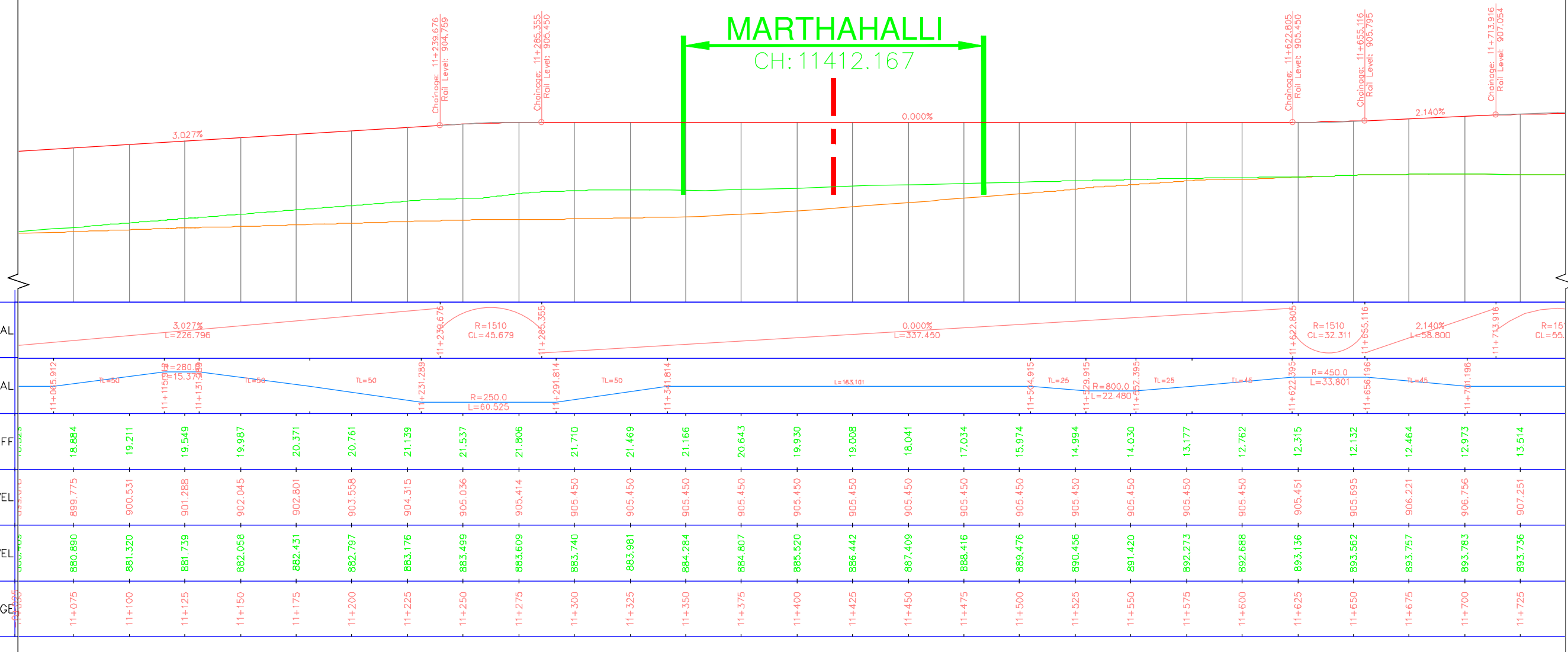
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			21/02/2018				



PLAN
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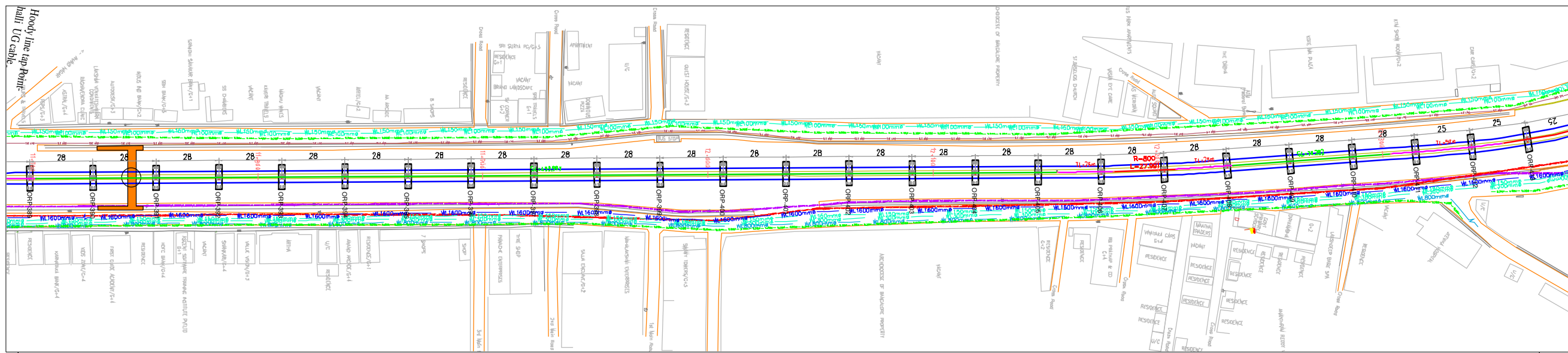


LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

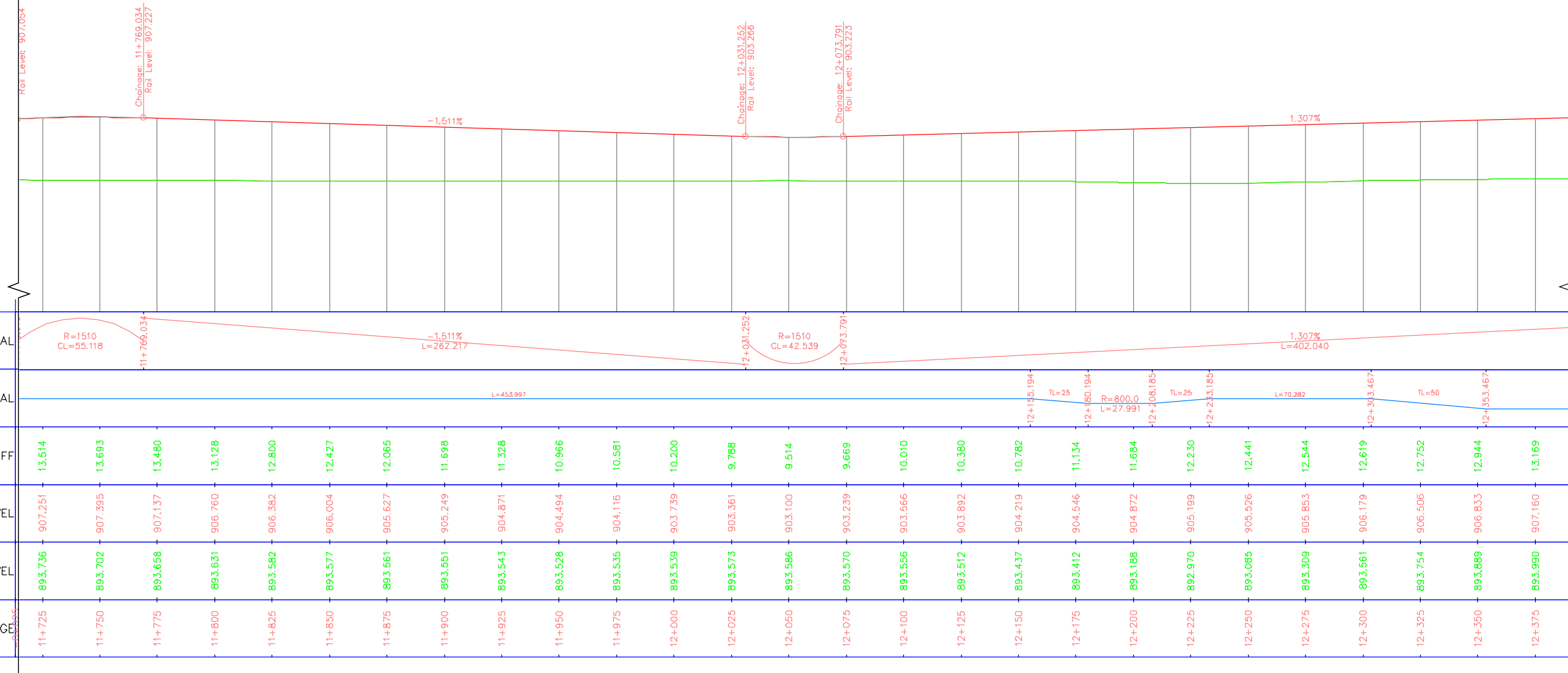
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

- LEGEND:**
- ALIGNMENT LINE
 - PORTAL PIER
 - NORMAL PIER
 - ECCENTRIC PIER
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			DATE (FOR ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP370- ORP390)</p>	
					<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/018</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKD: Dy.CE:</p>	<p>DATE(CURRENT ISSUE) 05/11/2019</p>



PLAN
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LONGITUDINAL ELEVATION
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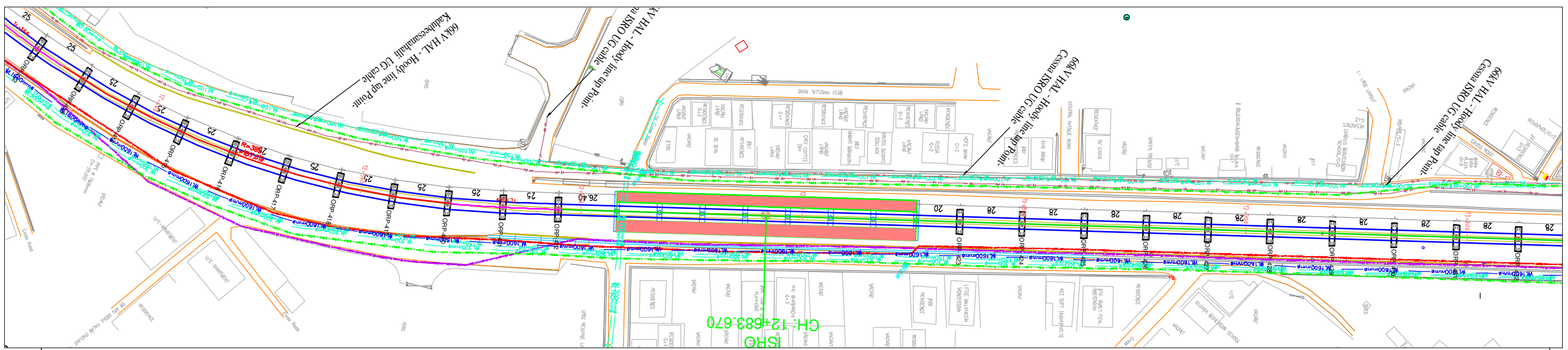
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LEGEND:

- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

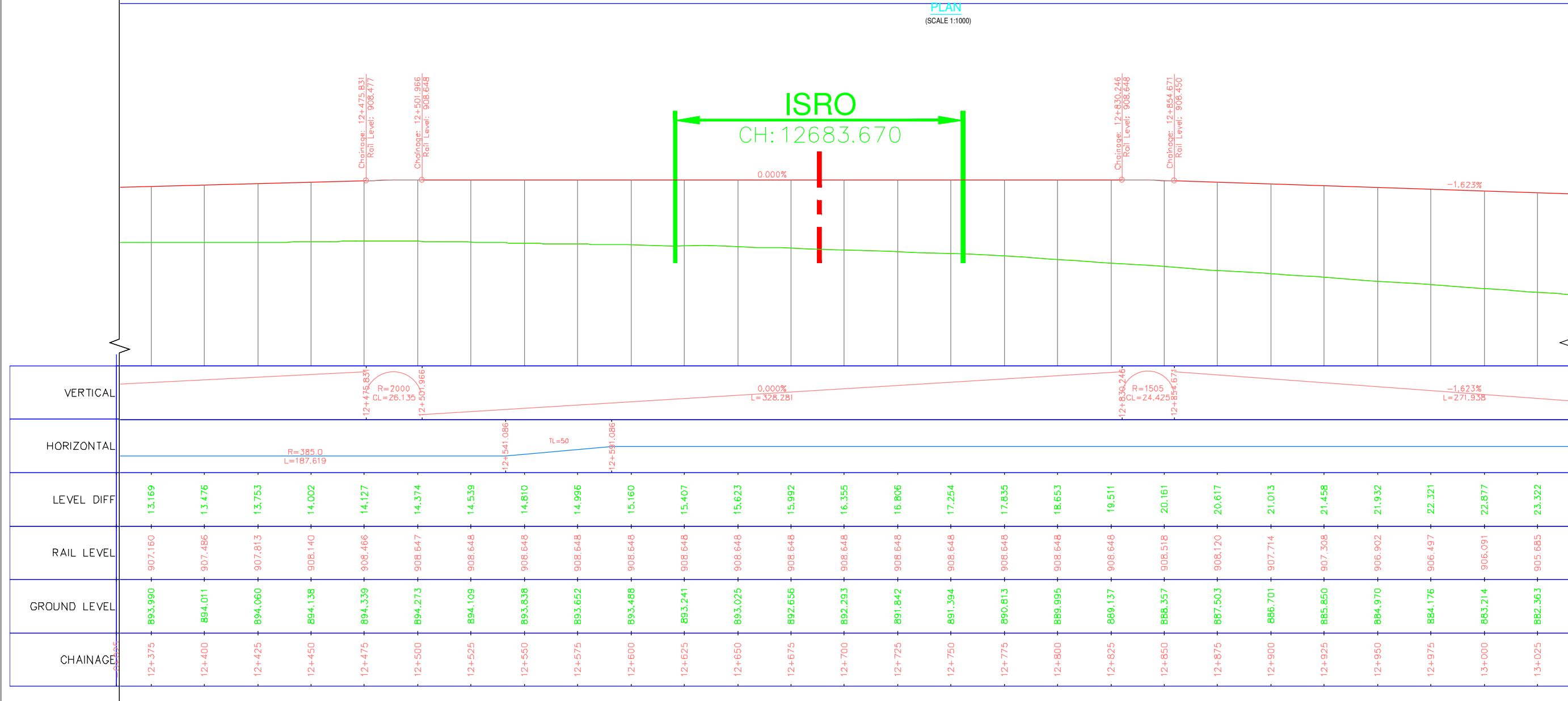
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			DATE (FOR ISSUE) 21/02/2018		DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP389- ORP413)	
			<small>IF PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.</small> <small>CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION - HOLD MUST GET DESIGN OFFICE TO CLEAR HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.</small>		DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/019	ISSUE RO
					DRN:	DATE (CURRENT ISSUE) 05/11/2019



PLAN
(SCALE 1:1000)

ISRO
CH: 12683.670



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

LEGEND:

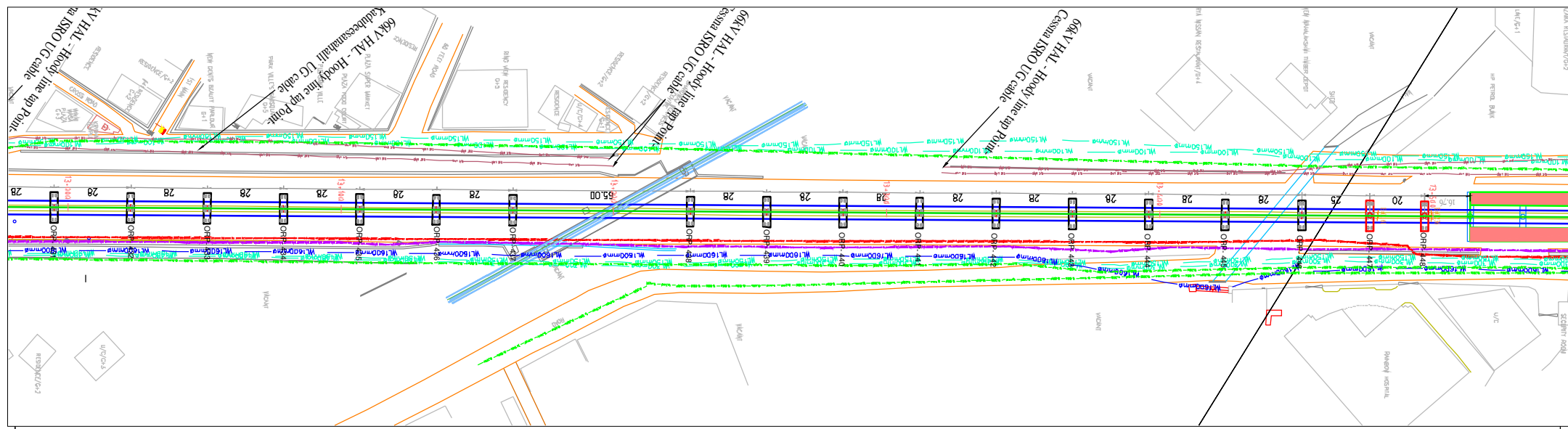
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

NOTES:

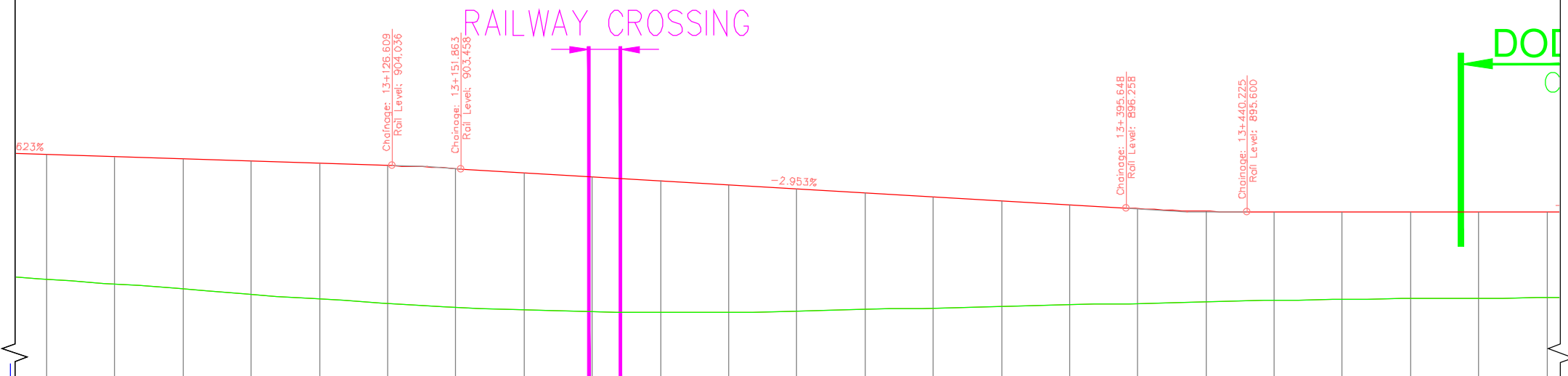
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ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore - 560027 Tel: 080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-2) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (RO ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP412- ORP432)</p>	
					<p>DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/020</p>	<p>ISSUE RO</p>
					<p>DRN:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



PLAN
(SCALE 1:1000)



LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

CHAINAGE	GROUND LEVEL	RAIL LEVEL	LEVEL DIFF	HORIZONTAL	VERTICAL
13+000	883.214	906.091	22.877		62.3%
13+025	882.363	905.665	23.322		
13+050	881.450	905.279	23.830		
13+075	880.478	904.874	24.396		
13+100	879.639	904.468	24.829		
13+125	878.813	904.062	25.249		Chainage: 13+126.609 Rail Level: 904.056
13+150	878.095	903.512	25.417		Chainage: 13+151.863 Rail Level: 903.458
13+175	877.613	902.775	25.162		
13+200	877.343	902.036	24.693		
13+225	877.187	901.298	24.111		
13+250	877.200	900.560	23.359		
13+275	877.400	899.821	22.422		
13+300	877.684	899.083	21.399		
13+325	877.988	898.345	20.357		
13+350	878.275	897.606	19.331		
13+375	878.570	896.868	18.298		
13+400	878.818	896.136	17.317		Chainage: 13+395.648 Rail Level: 896.258
13+425	879.142	895.677	16.535		Chainage: 13+410.225 Rail Level: 895.600
13+450	879.370	895.600	16.230		
13+475	879.543	895.600	16.057		
13+500	879.701	895.600	15.899		
13+525	879.778	895.600	15.822		
13+550	879.842	895.600	15.758		

LEGEND:

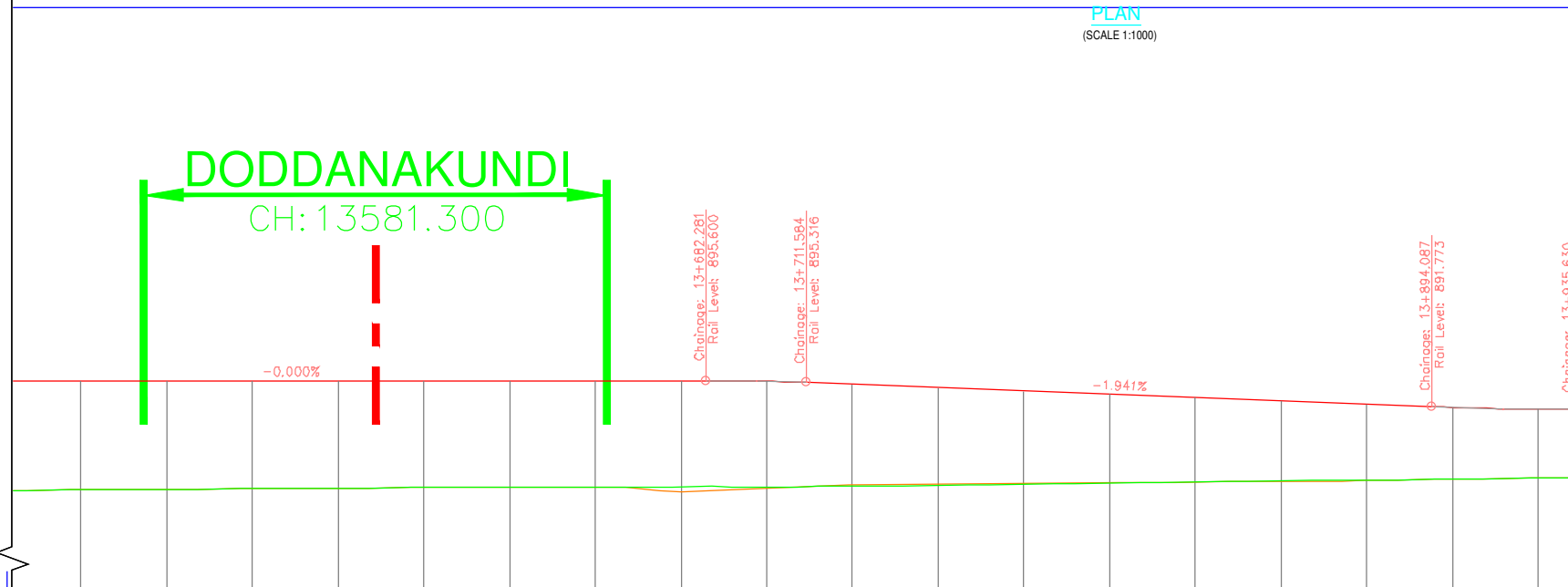
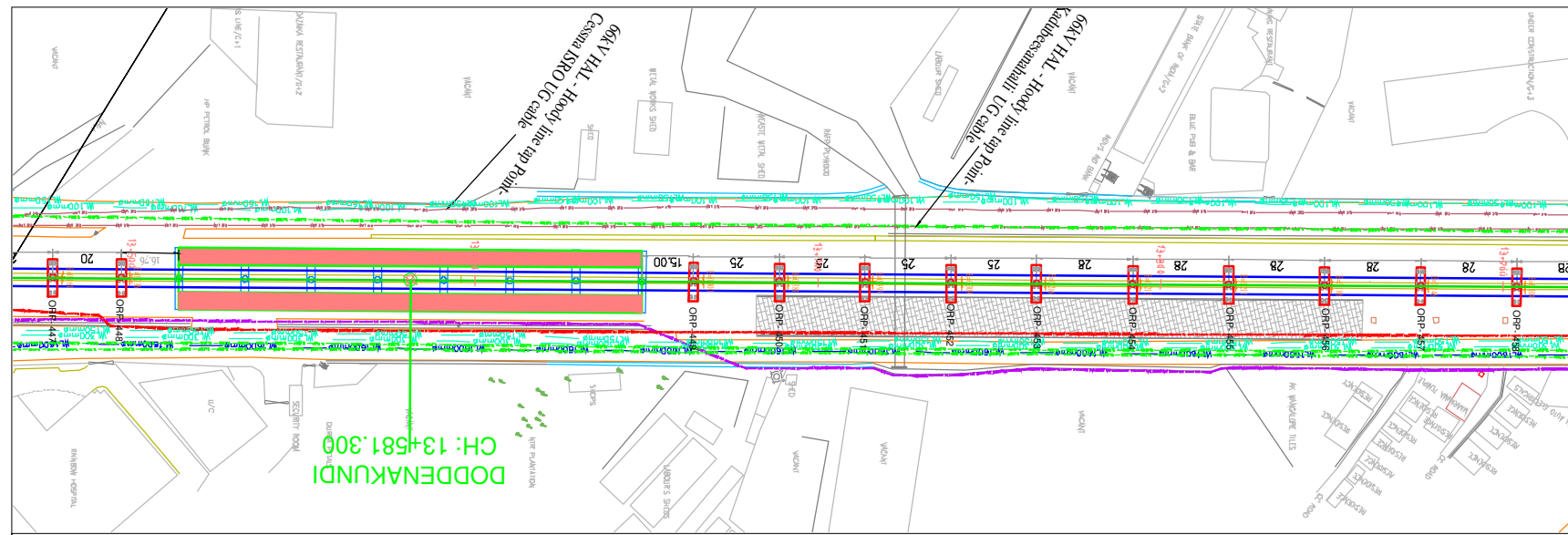
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

NOTES:

- ALL DIMENSIONS AND LEVELS ARE IN METERS.
- FOLLOW FIGURED DIMENSIONS ONLY.

ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN		BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300	PHASE IIA - ORR LINE (PACKAGE-2) SILK BOARD JUNCTION TO K.R PURAM	
			DATE (NO ISSUE) 21/02/2018			DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP431- ORP448)	
			* IF (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK. CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.			DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/021	ISSUE RO
						DRN: DSND: CHKB: Dy.CE:	DATE(CURRENT ISSUE) 05/11/2019



CHAINAGE	GROUND LEVEL	RAIL LEVEL	LEVEL DIFF	HORIZONTAL	VERTICAL
13+500	879.701	895.600	15.899	-0.000%	-0.000% L=242.057
13+525	879.778	895.600	15.822		
13+550	879.842	895.600	15.758		
13+575	879.948	895.600	15.652		
13+600	879.988	895.600	15.612		
13+625	880.061	895.600	15.539		
13+650	880.089	895.600	15.511		
13+675	879.299	895.600	16.301		
13+700	879.873	895.496	15.623	R=1510 CL=29.303	
13+725	880.428	895.055	14.627		
13+750	880.541	894.570	14.029		
13+775	880.653	894.085	13.432		
13+800	880.765	893.600	12.834		
13+825	880.825	893.114	12.289		
13+850	880.878	892.629	11.751		
13+875	881.032	892.144	11.112		
13+900	881.230	891.670	10.440		
13+925	881.380	891.190	10.110		

LONGITUDINAL ELEVATION
(SCALE HOR 1:1000 VER 1:500)

ALIGNMENT AND LEVELS MAY CHANGE DURING
CONSTRUCTION BASED ON SITE CONDITIONS.

- LEGEND:**
- ALIGNMENT LINE
 - PORTAL PIER
 - NORMAL PIER
 - ECCENTRIC PIER

- NOTES:**
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
 - FOLLOW FIGURED DIMENSIONS ONLY.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTCL Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	PHASE IIA - ORR LINE (PACKAGE-3) SILK BOARD JUNCTION TO K.R PURAM			
			DATE (FOR ISSUE) 21/02/2018		DWC TITLE: GENERAL ARRANGEMENT DRAWING (ORP447- ORP458)			
			<small>IF (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK AT THE TOP RIGHT HAND CORNER OF THE TITLE BLOCK.</small> <small>CONSTRUCTION / FABRICATION WORK IS PERMITTED ON IT (RELEASED) ISSUES INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLDS IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLD'.</small>	DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/022	ISSUE R0			
				DRN:	DSND:	CHKD:	By.CE:	DATE (CURRENT ISSUE) 05/11/2019