

# Environmental Impact Assessment

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October 2020

## India: Bengaluru Metro Rail Project

Phase 2A (Outer Road Ring Metro Line)

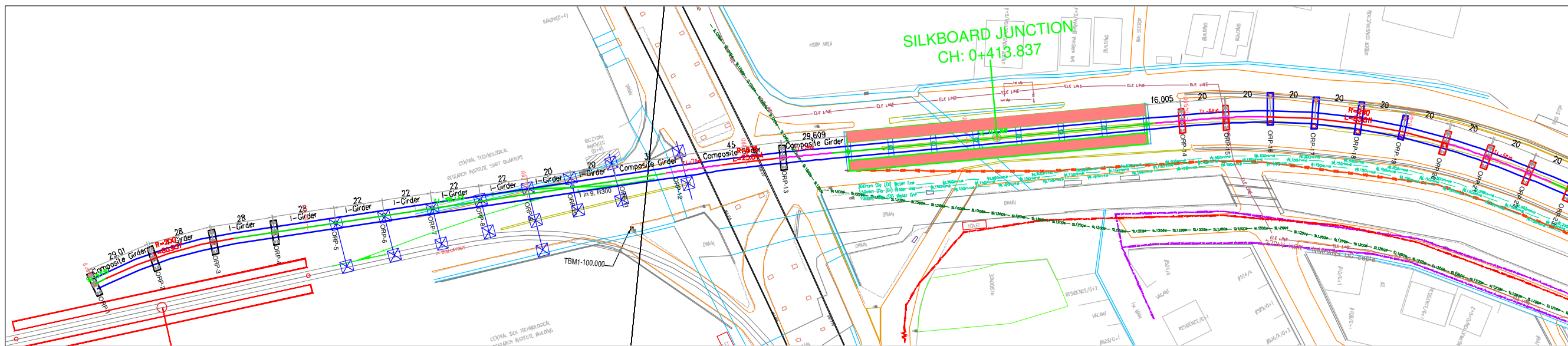
Volume 15  
Annex 5

## NOTES

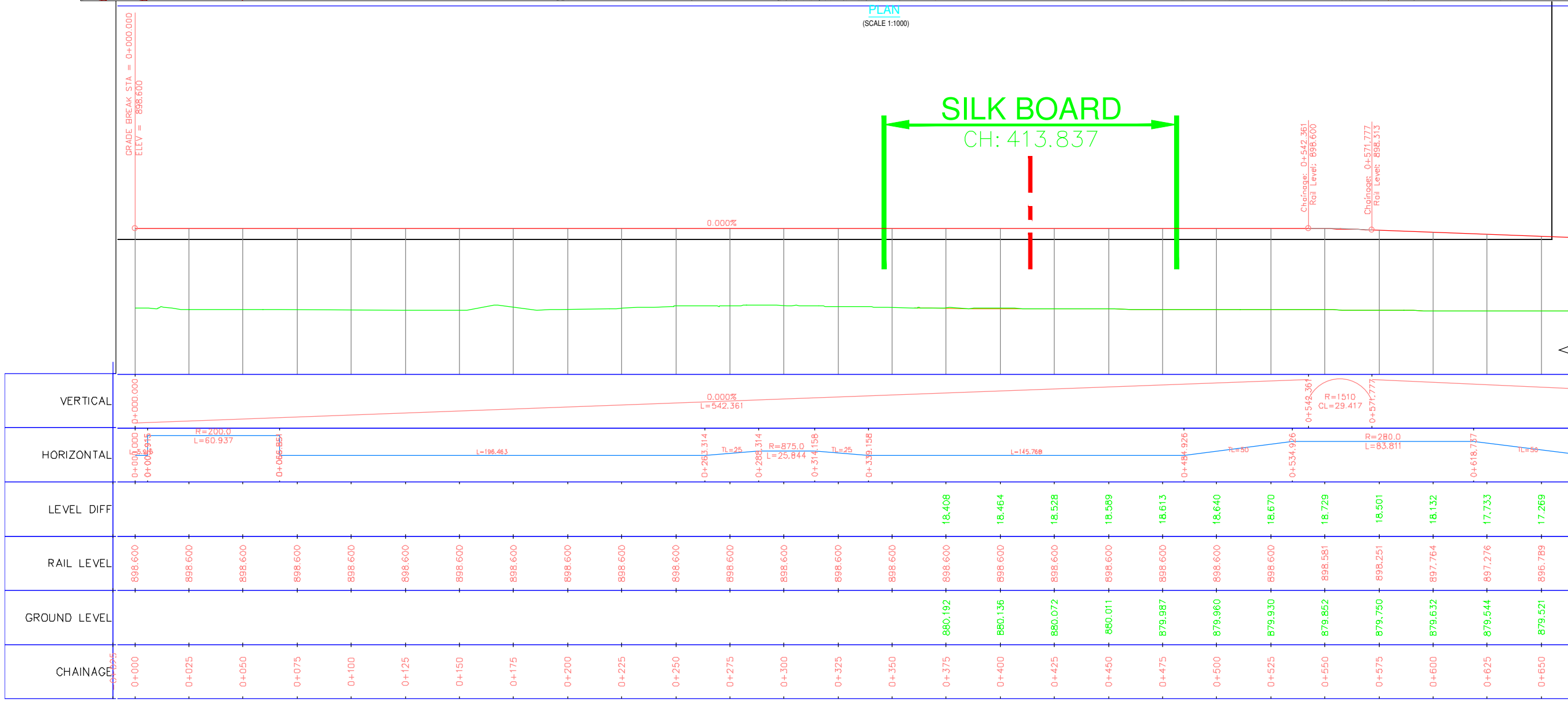
- (i) The fiscal year (FY) of the Government of India and its agencies ends on 31 March. "FY" before a calendar year denotes the year in which the fiscal year ends, e.g., FY2019 ends on 31 March 2019.
- (ii) In this report, "\$" refers to United States dollars.

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PLAN  
(SCALE 1:1000)



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

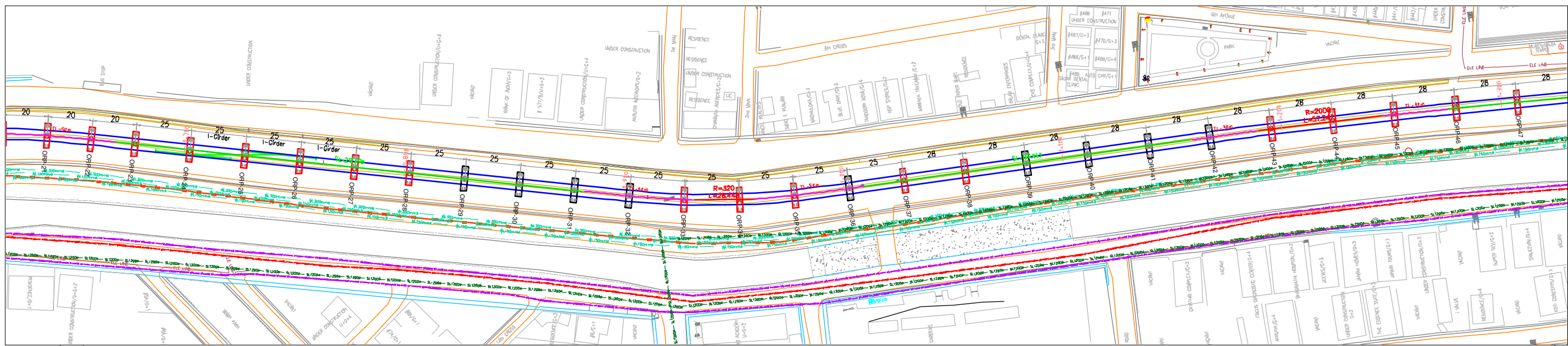
**LEGEND:**

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

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

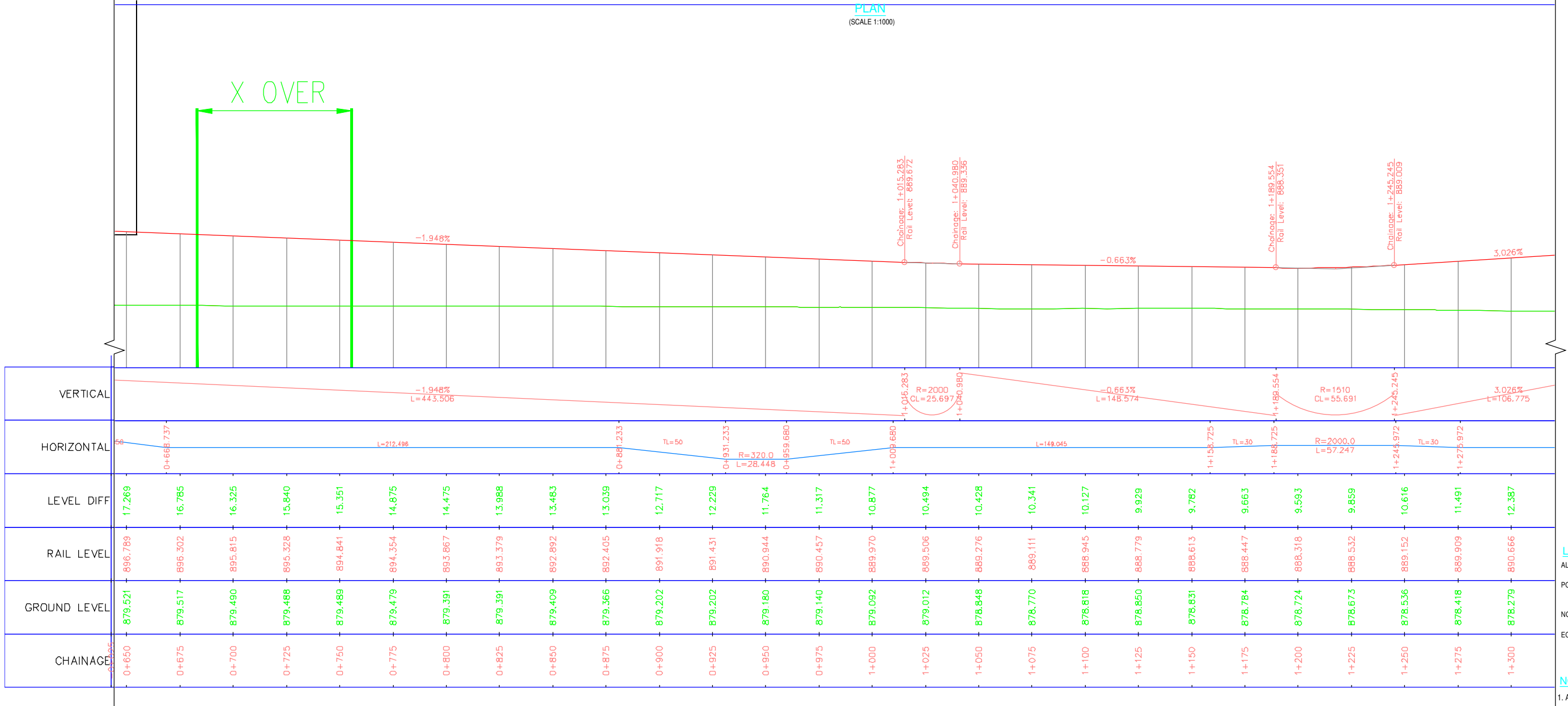
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN		<b>BANGALORE METRO RAIL CORPORATION LTD</b> 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				
			21/02/2018			GENERAL ARRANGEMENT DRAWING (ORP1 - ORP23)				
<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 HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.</small>					DWG. NO:	ISSUE				
					BMRCL/PH-IIA/ORR LINE/VDT/PP/001	NO	RO			
					DRN:	DATE (CURRENT ISSUE)				
					DSND:	05/11/2019				
					CHKD:					
					By.CE:					



PLAN  
(SCALE 1:1000)

X OVER



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

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

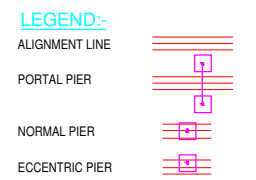
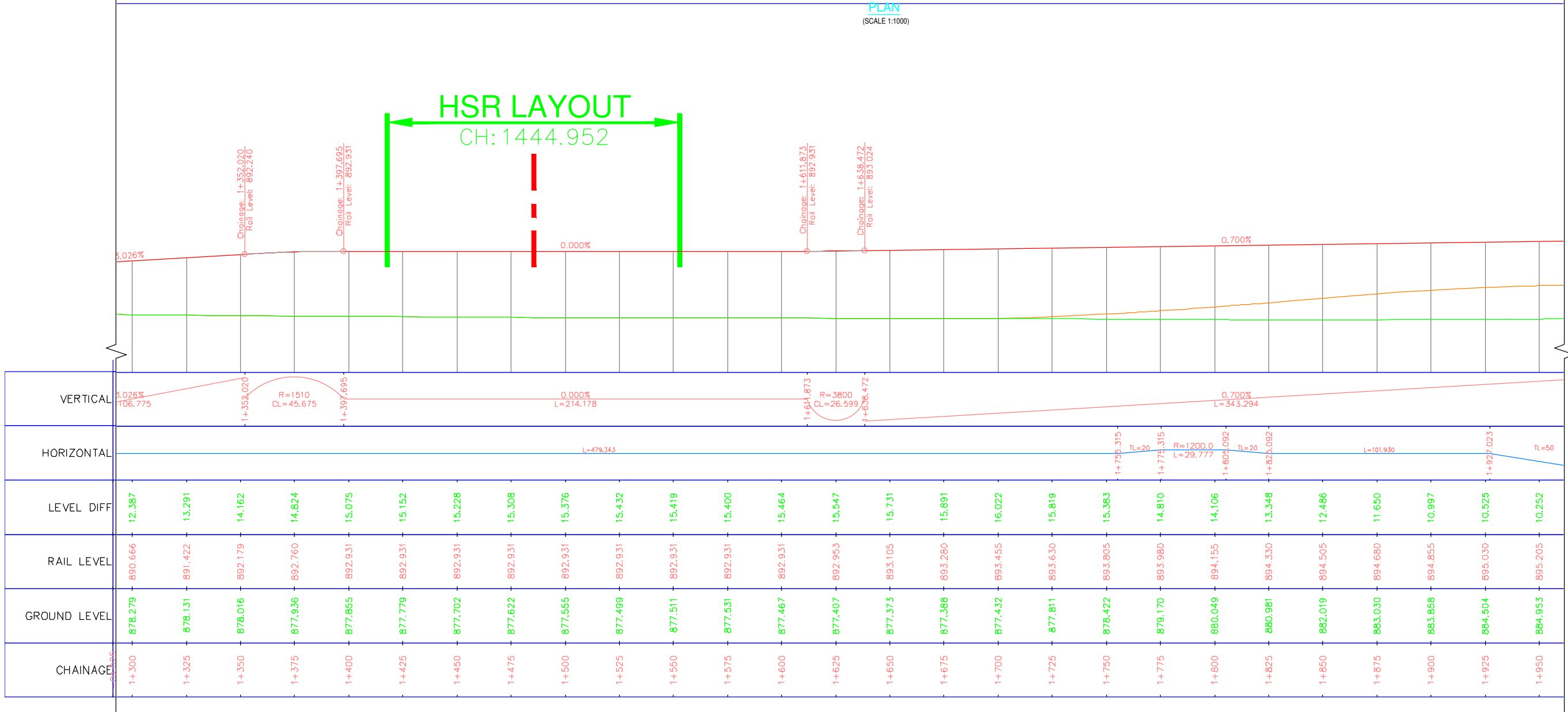
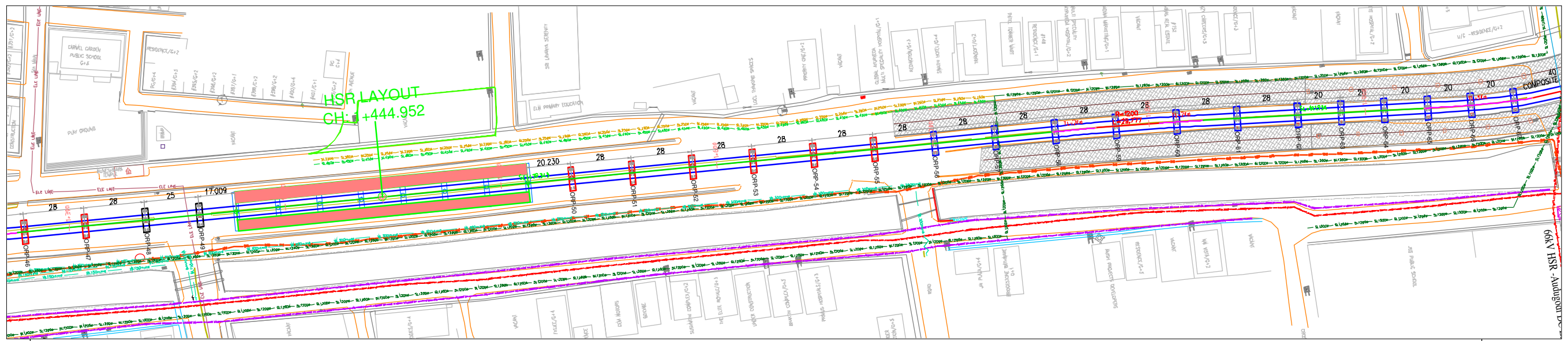
**LEGEND:**

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

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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>	PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM	
			DATE (FOR ISSUE) 21/02/2018		DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP21 - ORP47)	
					DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/002	ISSUE RO
					DRN: DSND: CHKD: Dy.CE:	DATE (CURRENT ISSUE) 05/11/2019



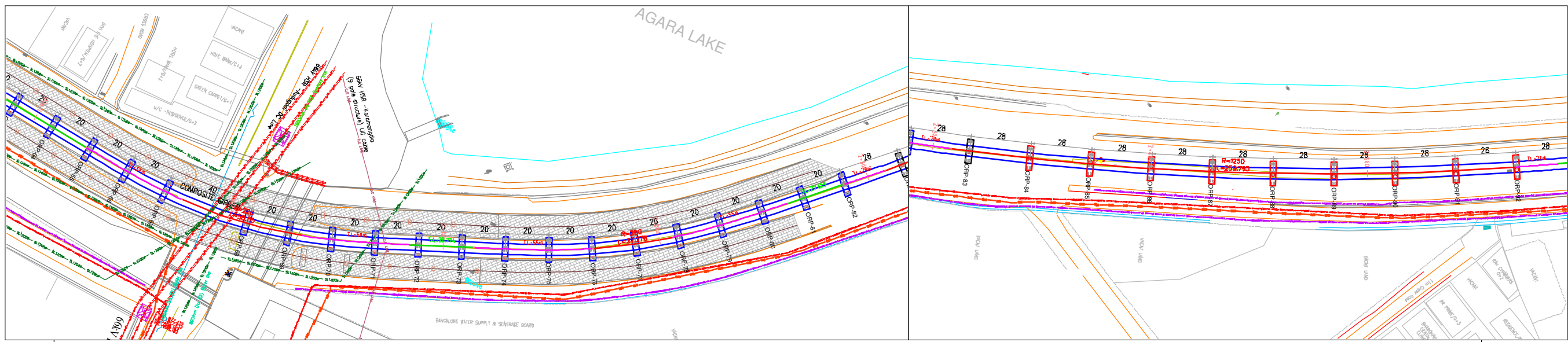
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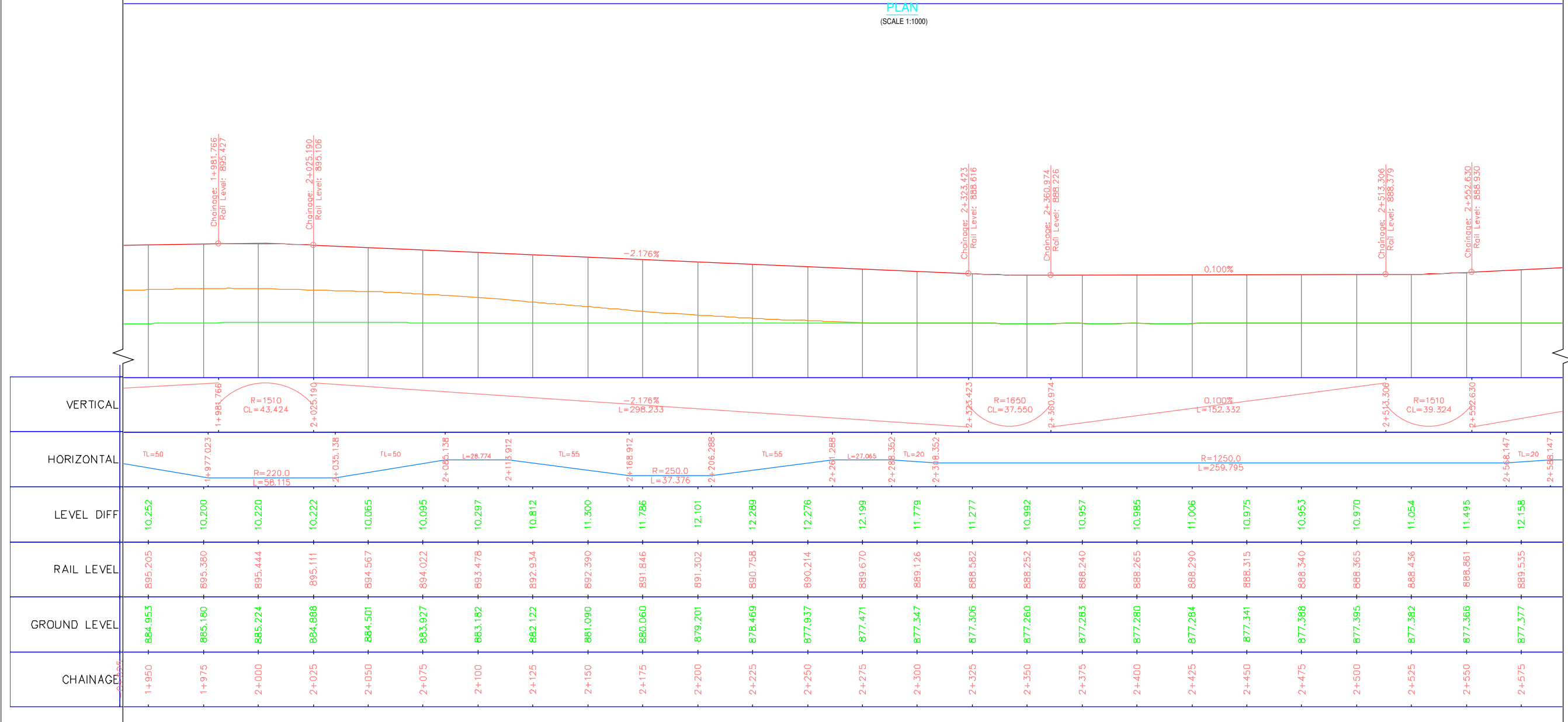
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ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b> A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore - 560027 Tel: 080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p>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





PLAN  
(SCALE 1:1000)



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

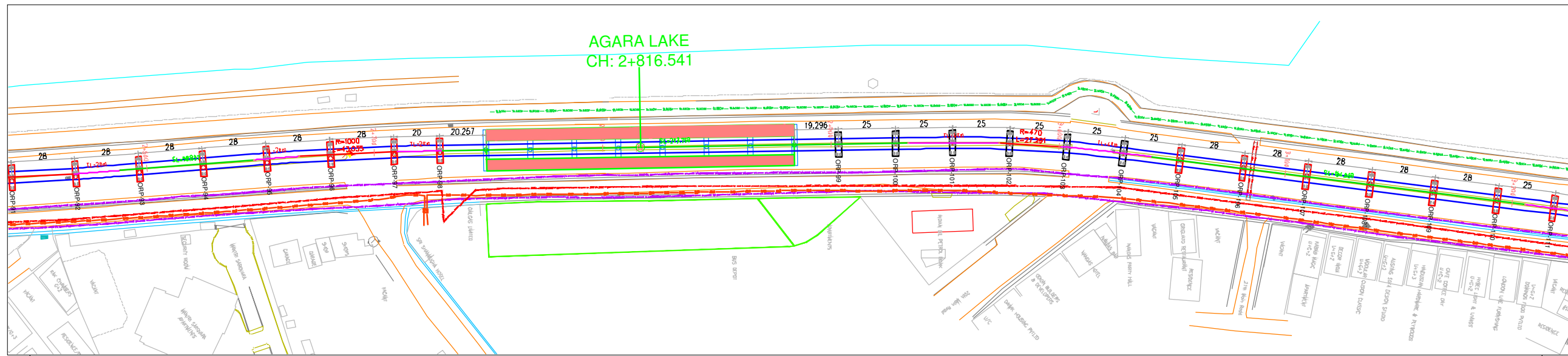
**LEGEND:**

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

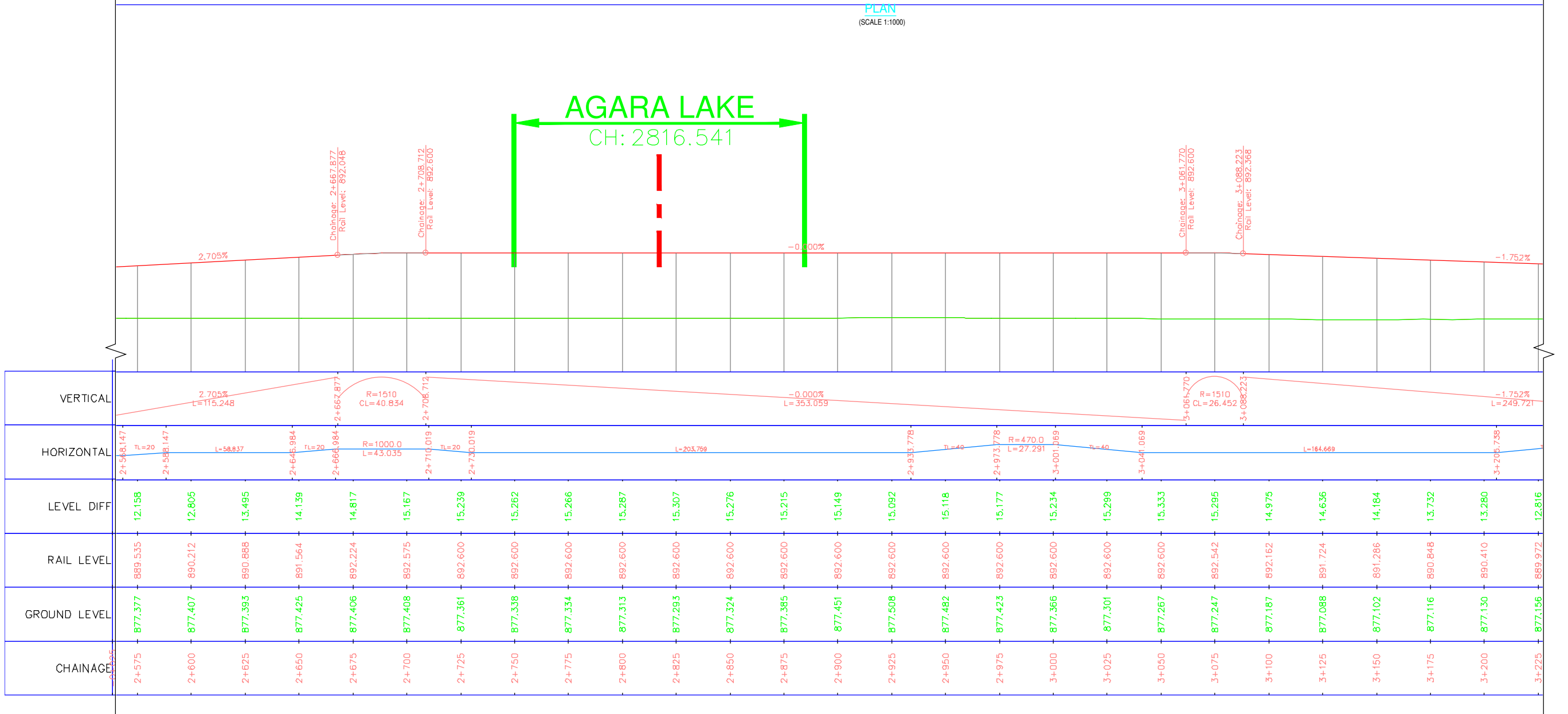
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  2. FOLLOW FIGURED DIMENSIONS ONLY.

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			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 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)

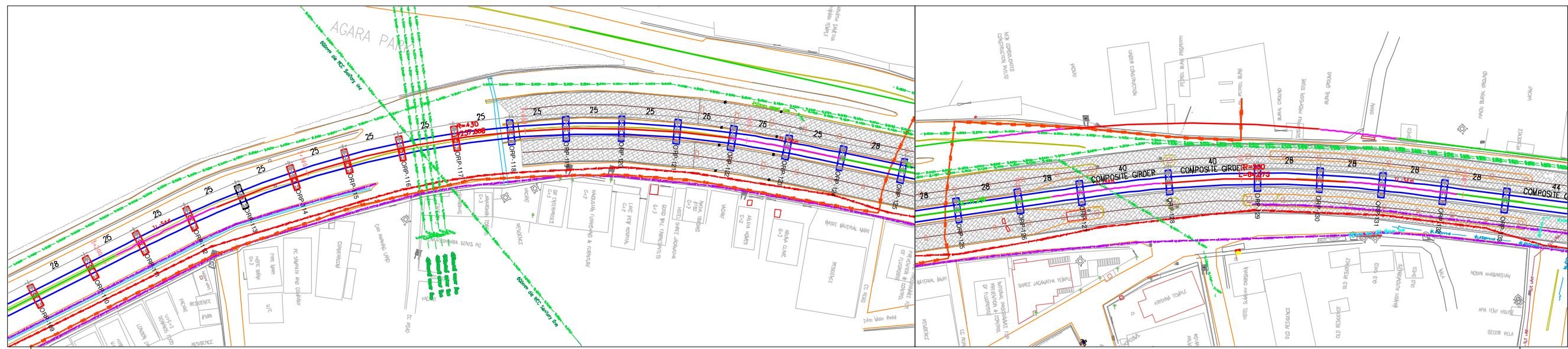
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

**LEGEND:**

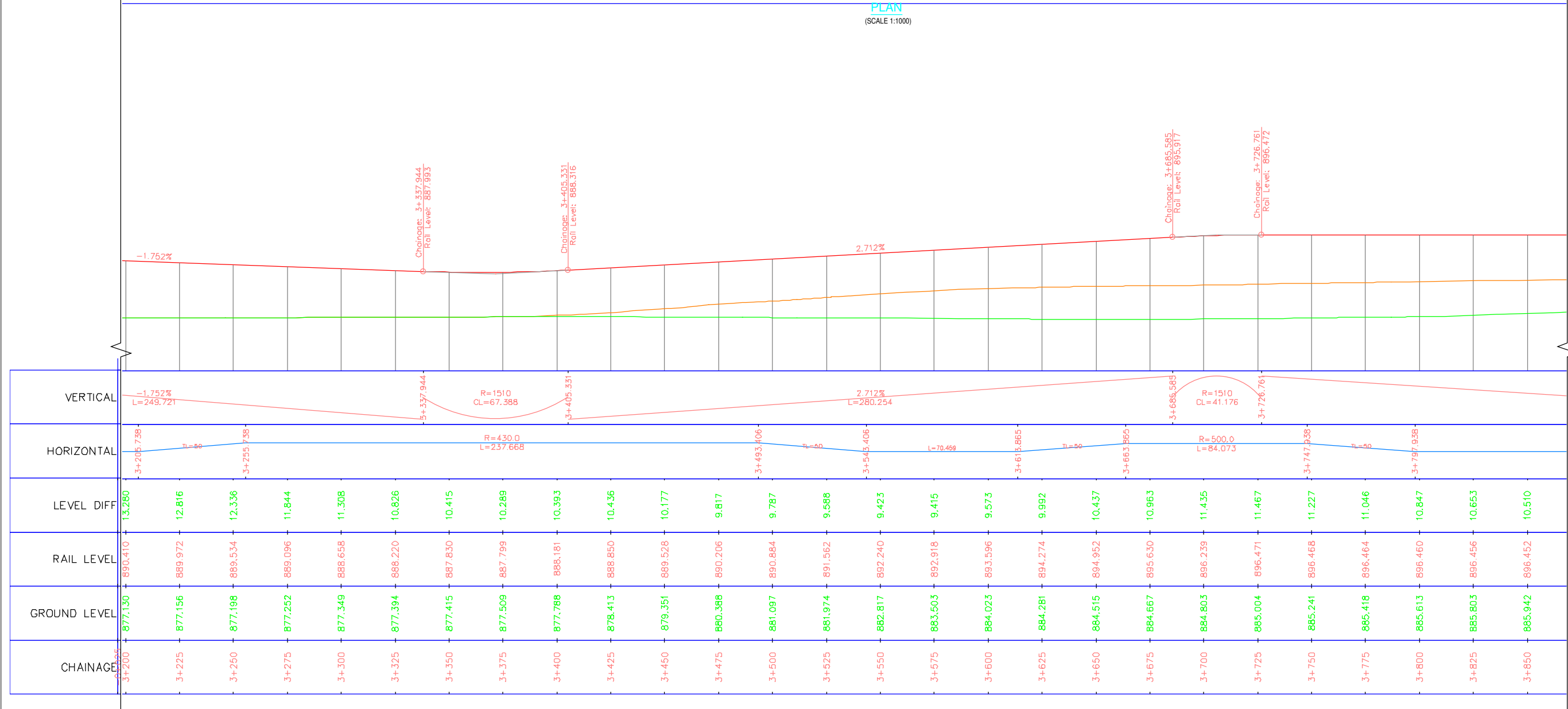
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

- NOTES:**
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ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b> 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: <b>GENERAL ARRANGEMENT DRAWING (ORP91- ORP111)</b></p>				
			DATE (RO ISSUE) 21/02/2018		<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>	DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/005	ISSUE RO		
					DRN:	OSND:	CHKD:	Dy.CE:	DATE (CURRENT ISSUE) 05/11/2019



PLAN  
(SCALE 1:1000)



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

**LEGEND:**

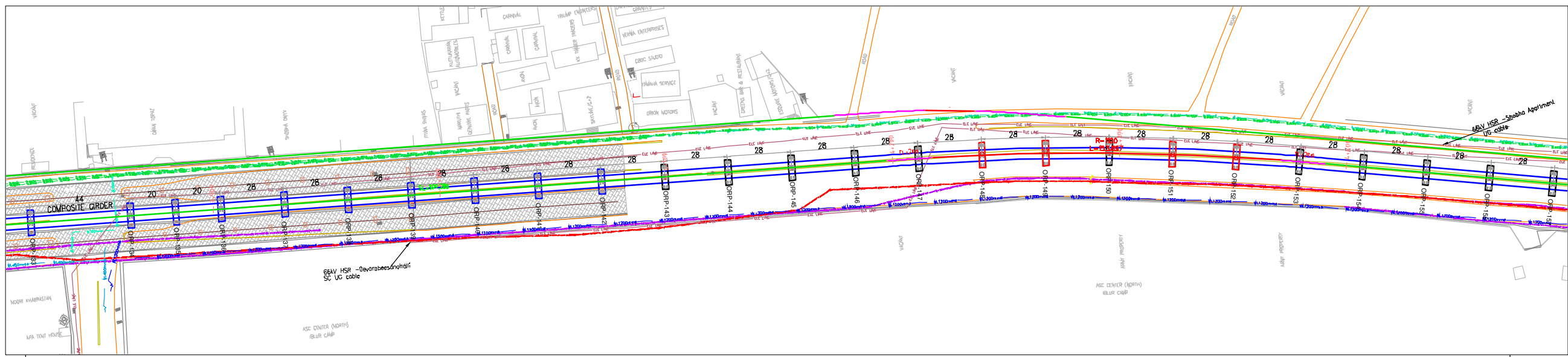
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

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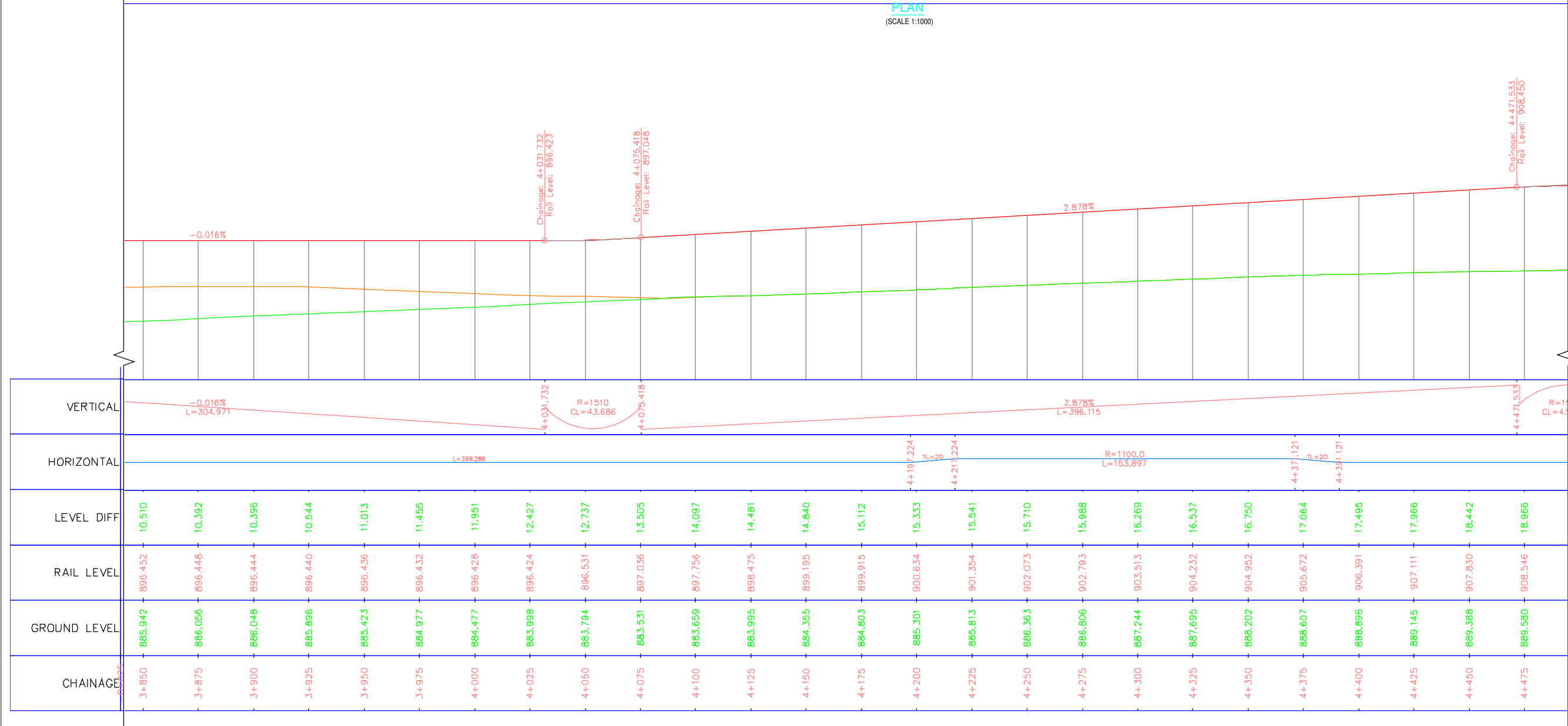
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

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>	PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM	
			DATE (FOR ISSUE) 21/02/2018		DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP109- ORP133)	
			<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 HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO HOLD.</small>		DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/006	ISSUE RO
					DRN: DSND: CHKD: Dy.CE:	DATE (CURRENT ISSUE) 05/11/2019





PLAN  
(SCALE 1:1000)



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

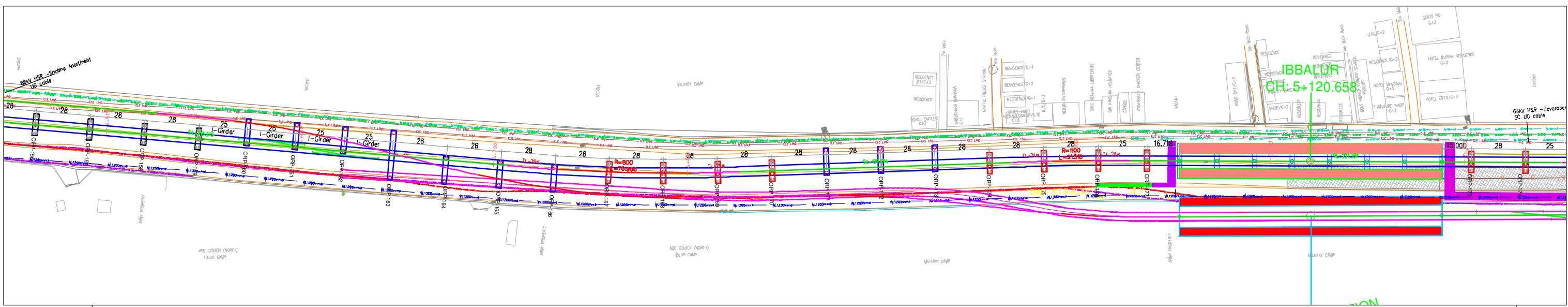
**LEGEND:**

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

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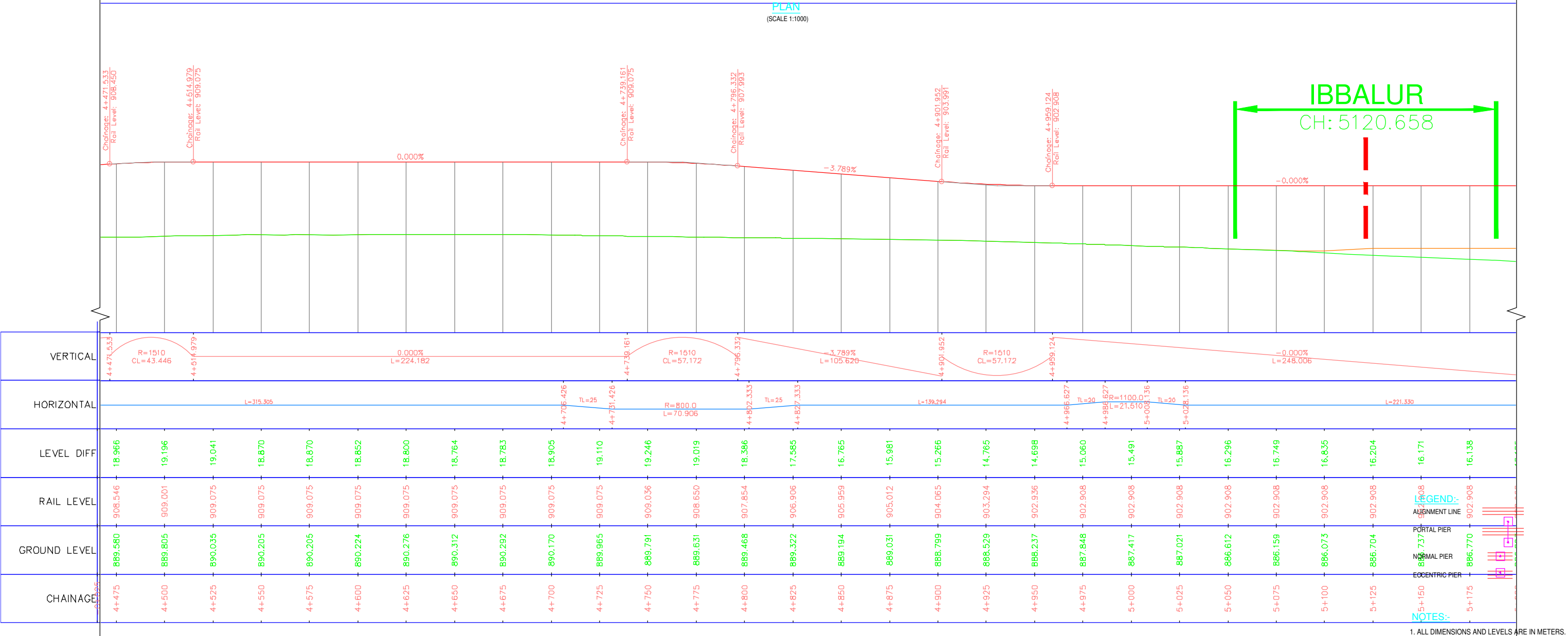
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ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b> A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-1) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (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: CHKD: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



IBBALUR  
CH: 5+120.658

IBBALUR  
CH: 5120.658

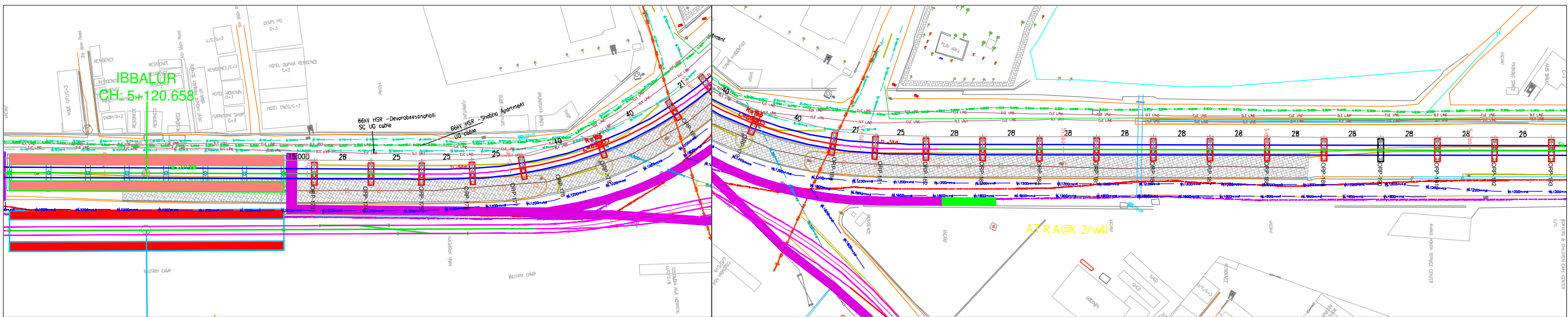


LEGEND:  
ALIGNMENT LINE  
PORTAL PIER  
NORMAL PIER  
ECCENTRIC PIER

NOTES:  
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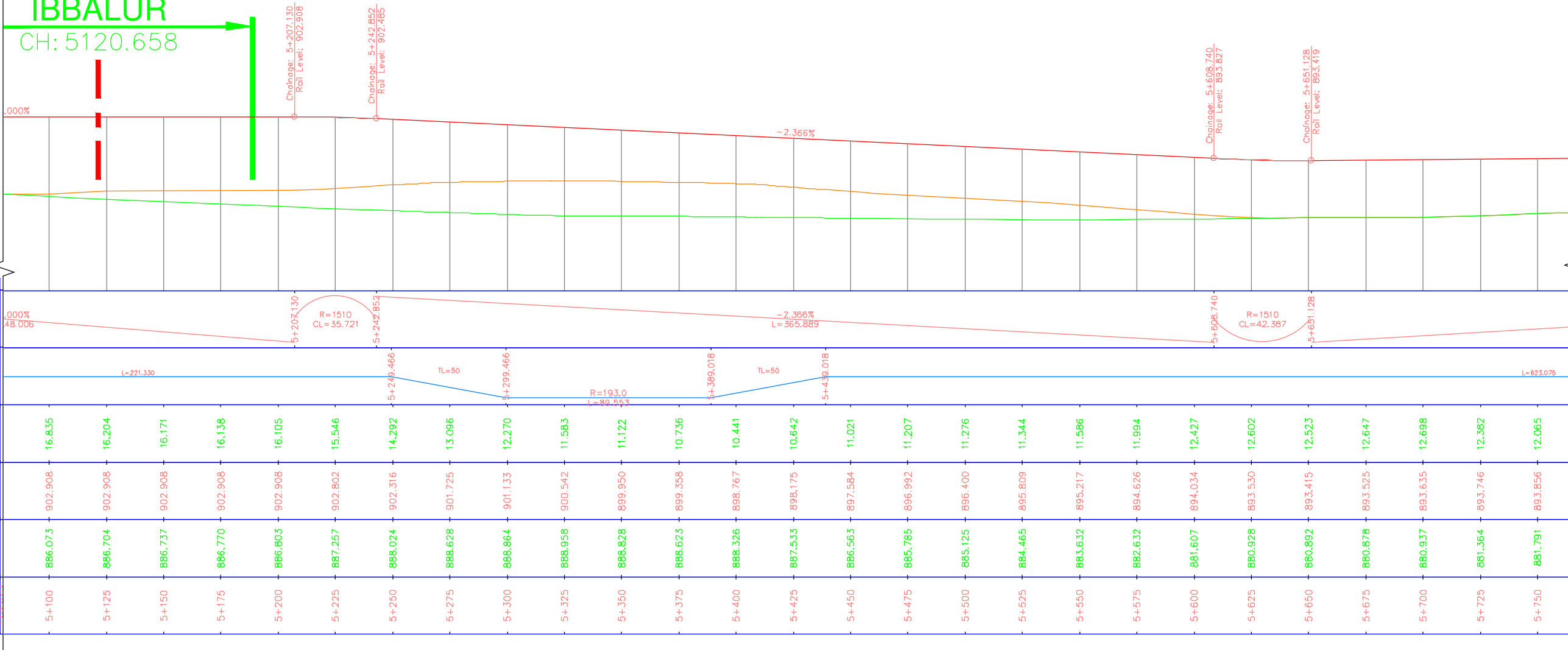
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			DATE (NO ISSUE) 21/02/2018		DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP156- ORP174)	
					DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/008	ISSUE RO
					DRN: DSND: CHKD: Dy.CE:	DATE (CURRENT ISSUE) 05/11/2019



PLAN  
(SCALE 1:1000)

IBBALUR  
CH: 5+120.658



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

**LEGEND:**

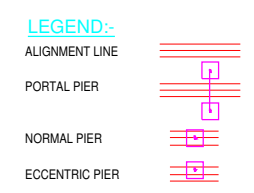
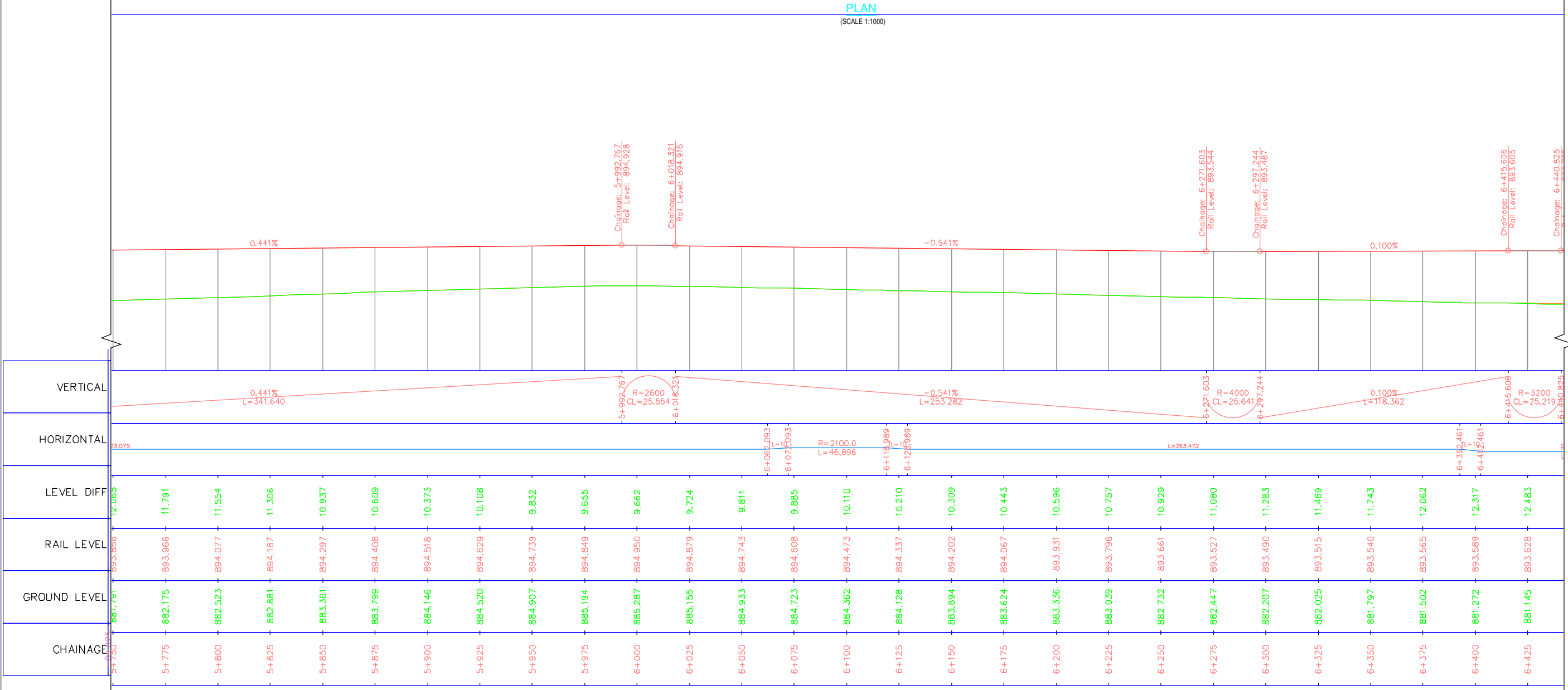
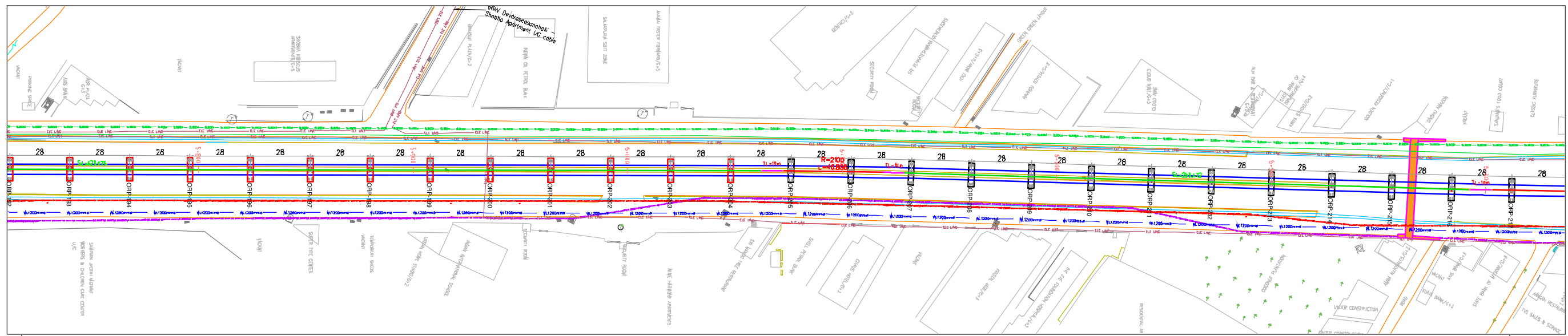
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
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			DATE (RD ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP173- ORP193)</p>	
			<p>IF PRELIMINARY ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES 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: BMRCL/PH-IIA/ORR LINE/VDT/PP/009</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKB: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>

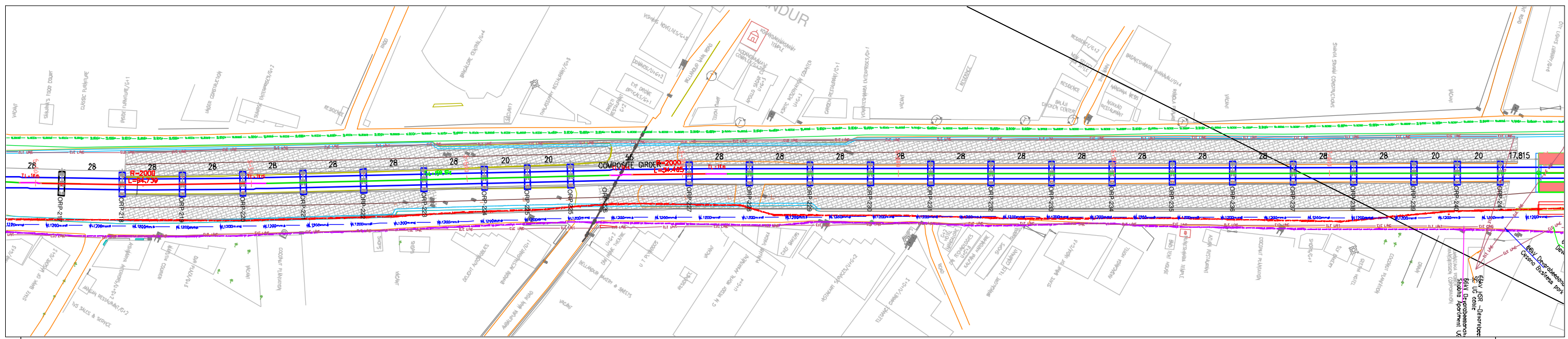


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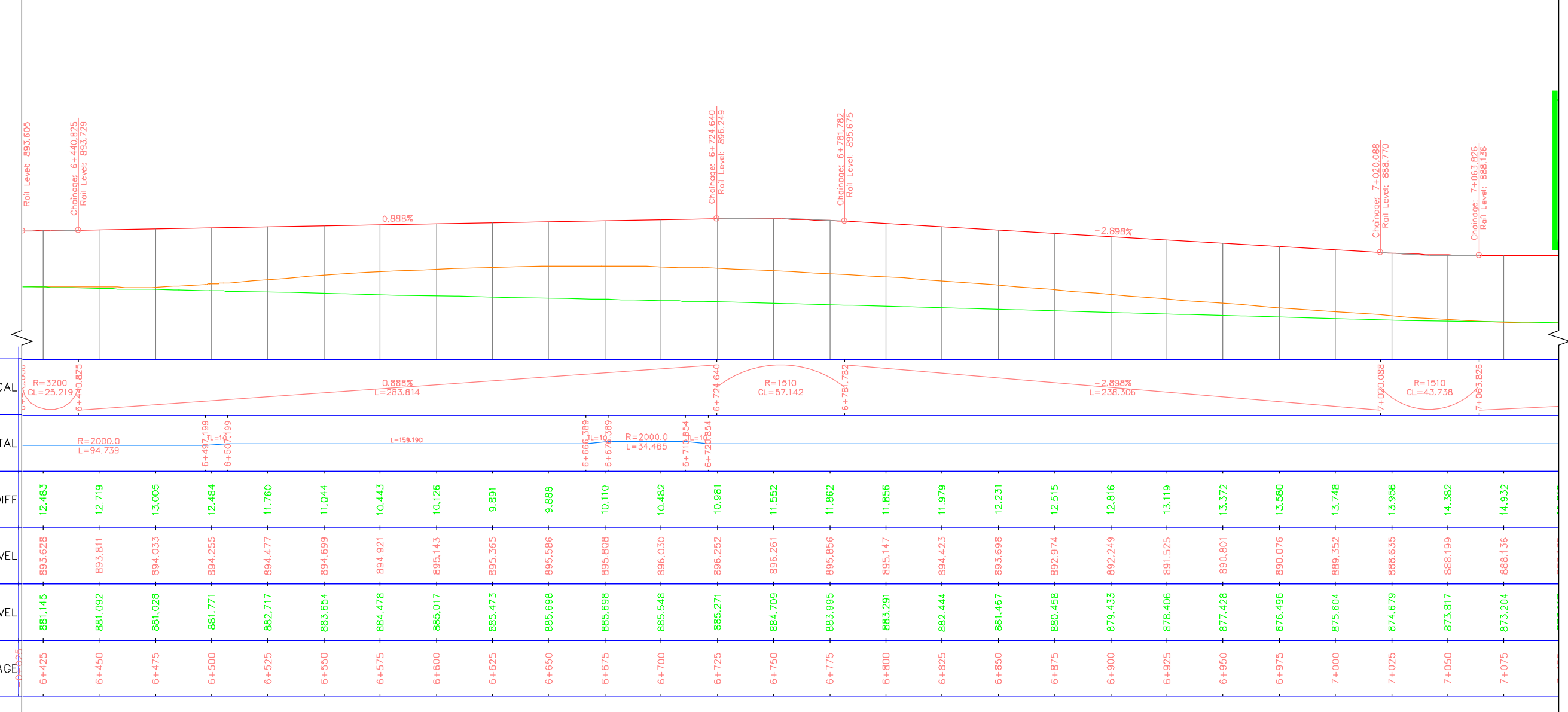
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			21/02/2018				





PLAN  
(SCALE 1:1000)

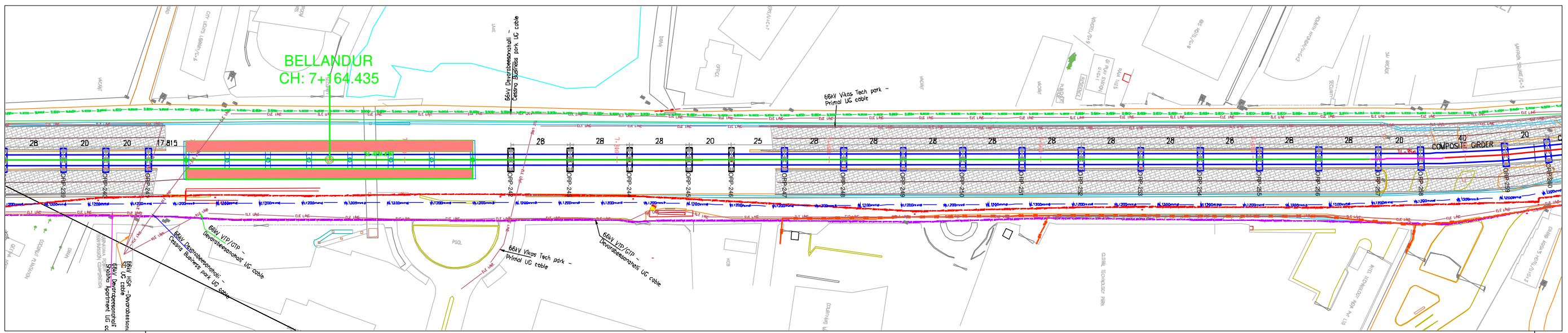


LONGITUDINAL ELEVATION  
(SCALE HOR 1:1000 VER 1:500)

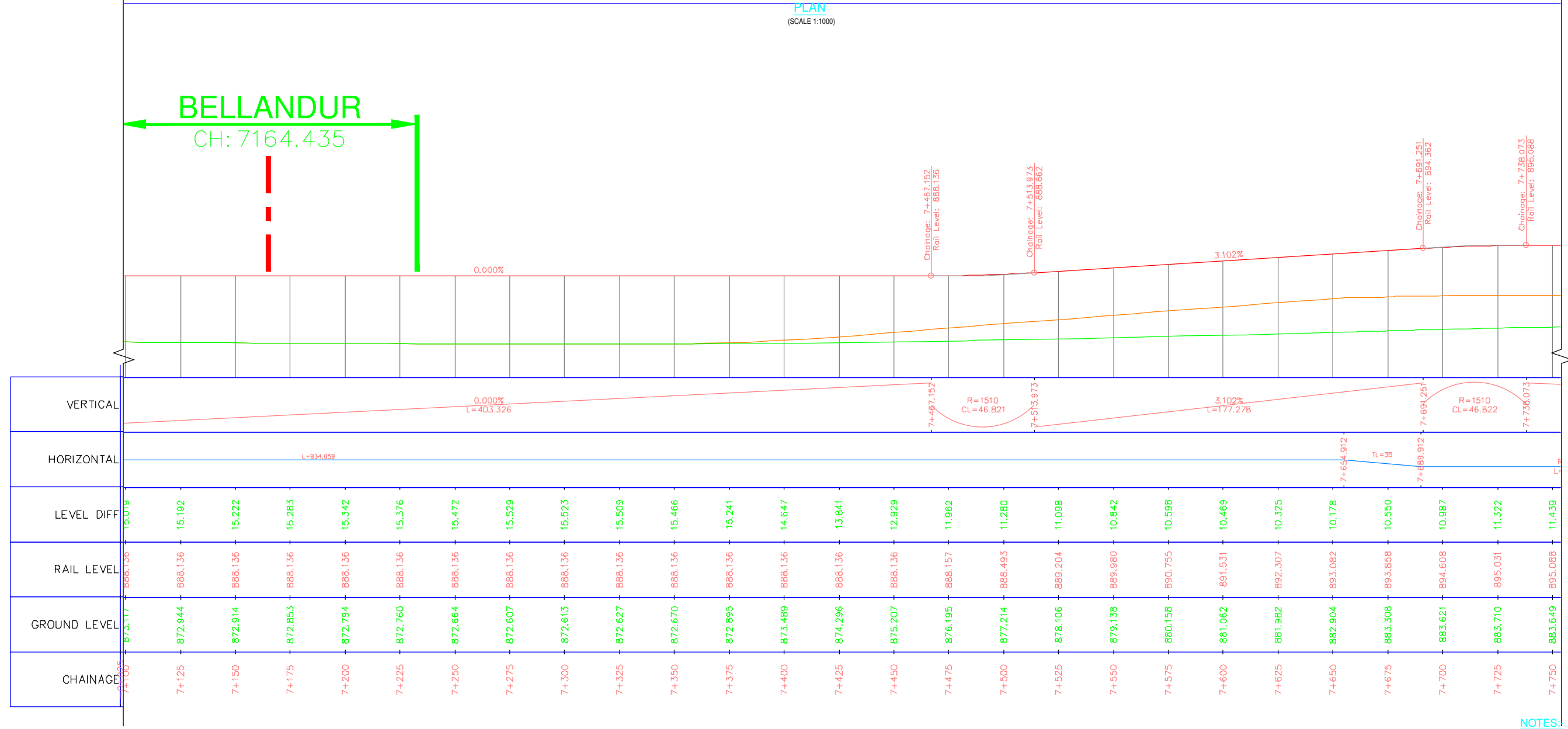
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- LEGEND:**
- ALIGNMENT LINE
  - PORTAL PIER
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			DATE (RO ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP217- ORP241)</p>	
			<p>* (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / 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: BMRCL/PH-IIA/ORR LINE/VDT/PP/011</p>	<p>ISSUE RO</p>
					<p>DRN:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



**BELLANDUR**  
CH: 7164.435

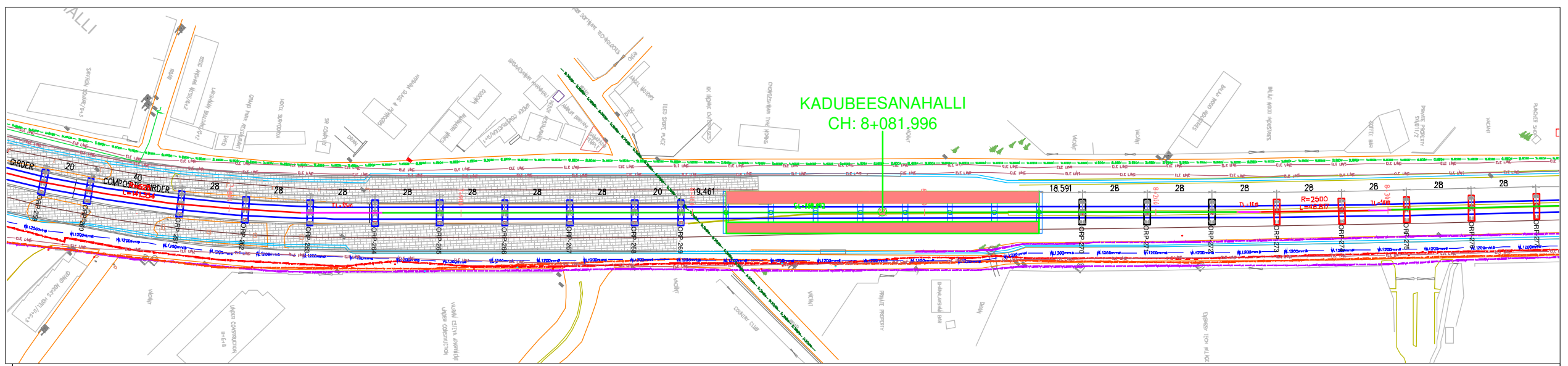


- LEGEND:**
- ALIGNMENT LINE
  - PORTAL PIER
  - NORMAL PIER
  - ECCENTRIC PIER

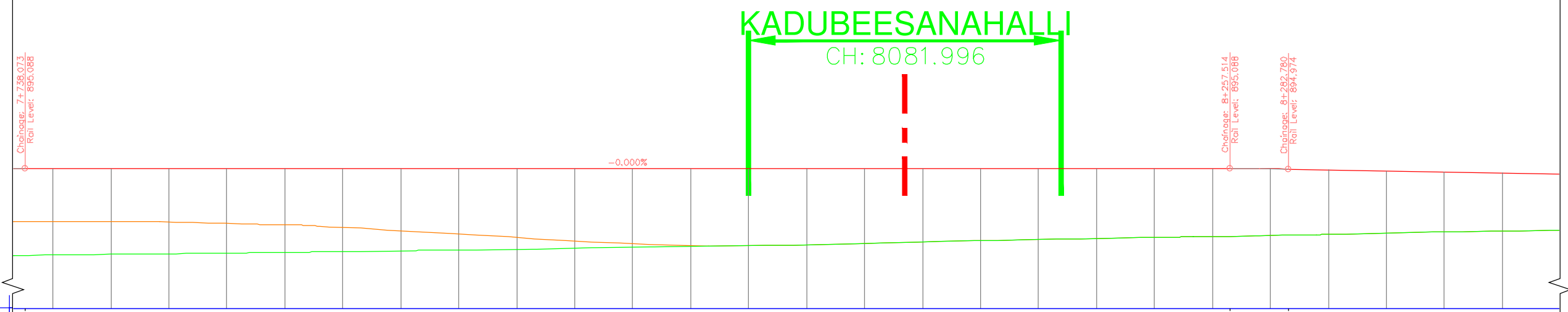
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			DATE (RO ISSUE) 21/02/2018				



PLAN  
(SCALE 1:1000)



KADUBEESANAHALLI  
CH: 8081.996

CHAINAGE	GROUND LEVEL	RAIL LEVEL	LEVEL DIFF	HORIZONTAL	VERTICAL
7+750	883.649	895.088	11.439	R=625.0 L=141.354	-0.000% L=519.441
7+775	883.665	895.088	11.423	TL=35	
7+800	883.593	895.088	11.495		
7+825	883.248	895.088	11.840		
7+850	882.919	895.088	12.169		
7+875	882.464	895.088	12.624		
7+900	881.717	895.088	13.371		
7+925	881.004	895.088	14.084		
7+950	880.220	895.088	14.868		
7+975	879.411	895.088	15.677		
8+000	878.883	895.088	16.205		
8+025	878.473	895.088	16.615		
8+050	878.469	895.088	16.619		
8+075	878.688	895.088	16.400		
8+100	878.990	895.088	16.098		
8+125	879.292	895.088	15.796		
8+150	879.571	895.088	15.517		
8+175	879.821	895.088	15.267		
8+200	879.963	895.088	15.125		
8+225	880.243	895.088	14.845		
8+250	880.450	895.088	14.638		
8+275	880.644	895.033	14.389		
8+300	880.891	894.819	13.927		
8+325	881.159	894.593	13.434		
8+350	881.434	894.367	12.933		
8+375	881.605	894.142	12.536		

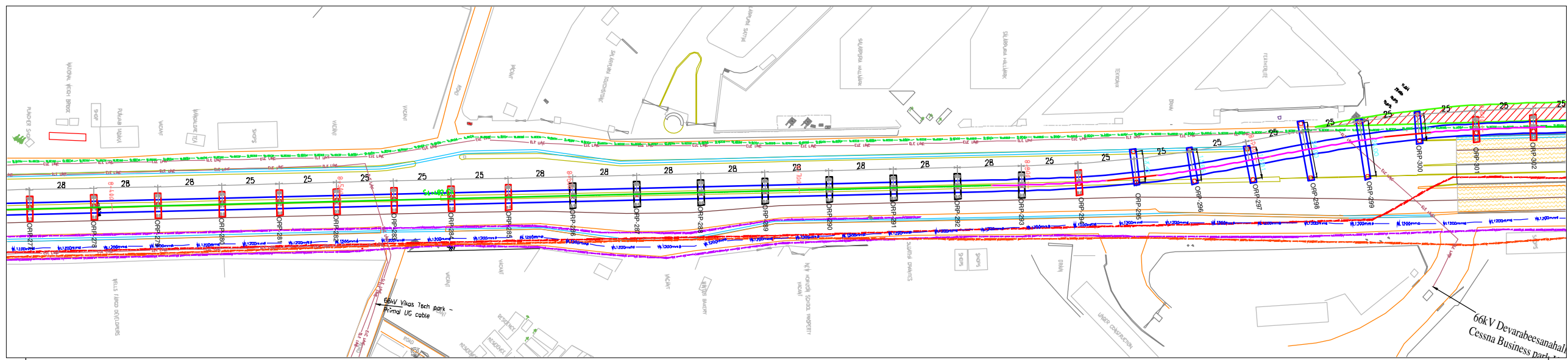
LONGITUDINAL ELEVATION  
(SCALE HOR 1:1000 VER 1:500)

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

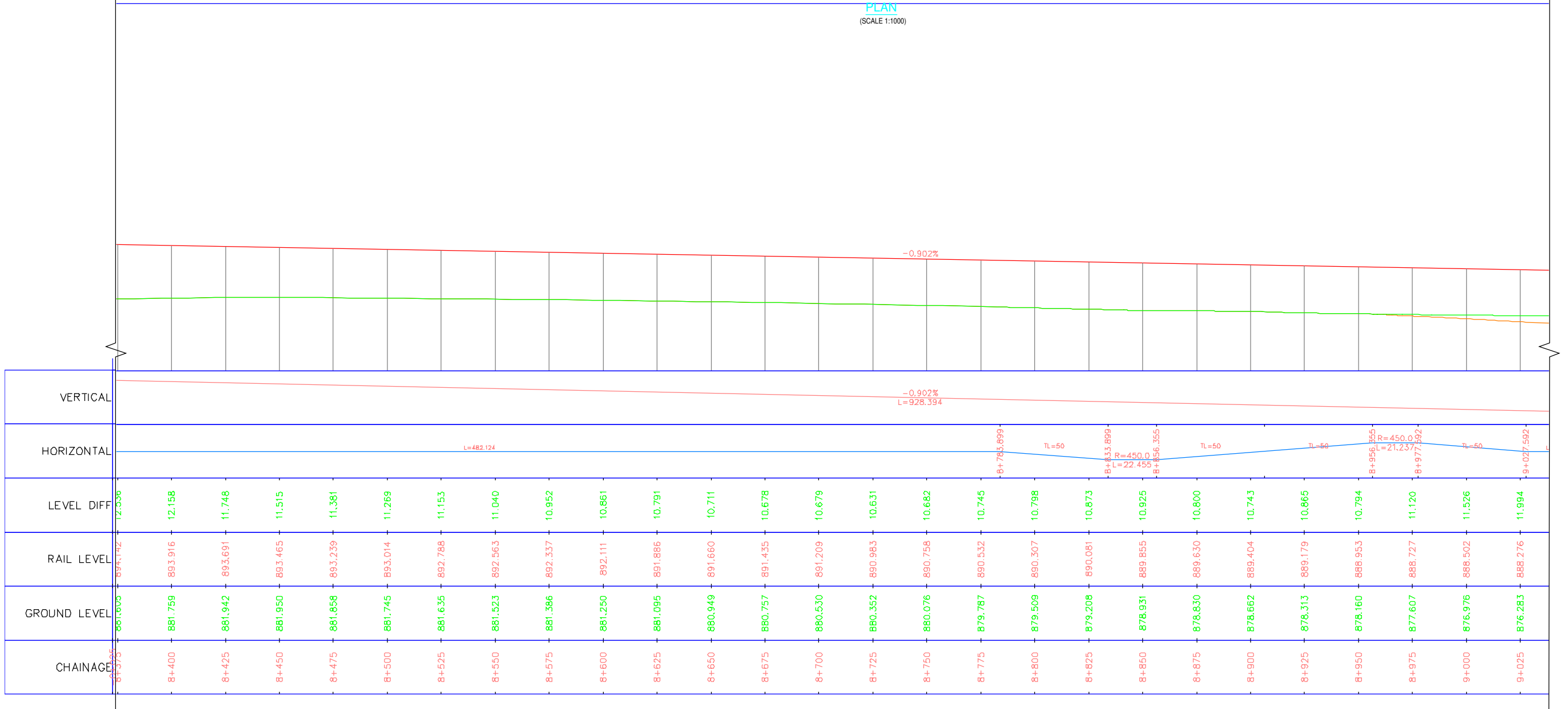
- NOTES:**
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
  - FOLLOW FIGURED DIMENSIONS ONLY.

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

ISSUE	APPROVED	DATE	SCALE: AS SHOWN		<b>BANGALORE METRO RAIL CORPORATION LTD</b> 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			GENERAL ARRANGEMENT DRAWING (ORP259- ORP277)				
						DWG. TITLE:				ISSUE
						DWG NO:	BMRCL/PH-IIA/ORR LINE/VDT/PP/013			RO
						DRN:		DSND:	CHKD:	DATE(CURRENT ISSUE) 05/11/2019



PLAN  
(SCALE 1:1000)



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

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

**LEGEND:**

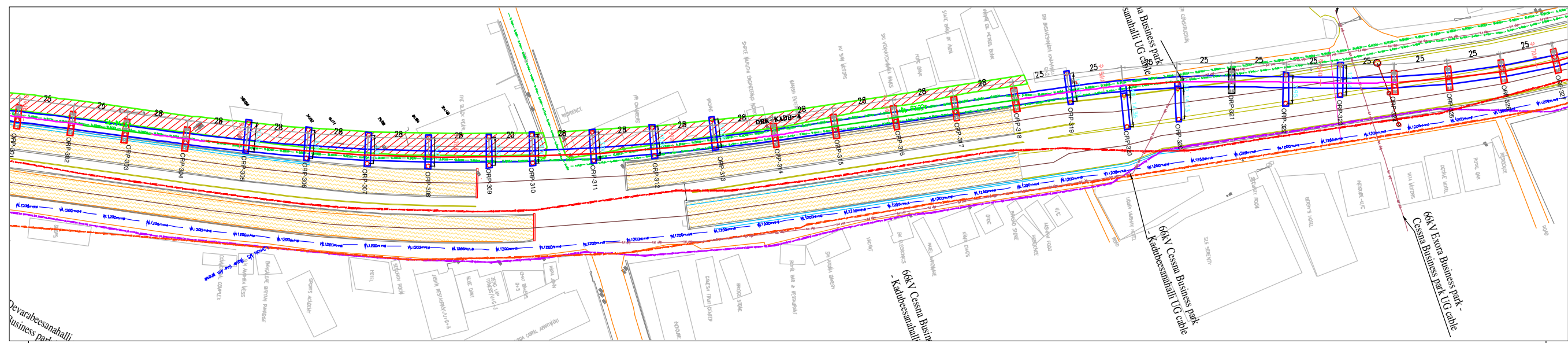
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

**NOTES:**

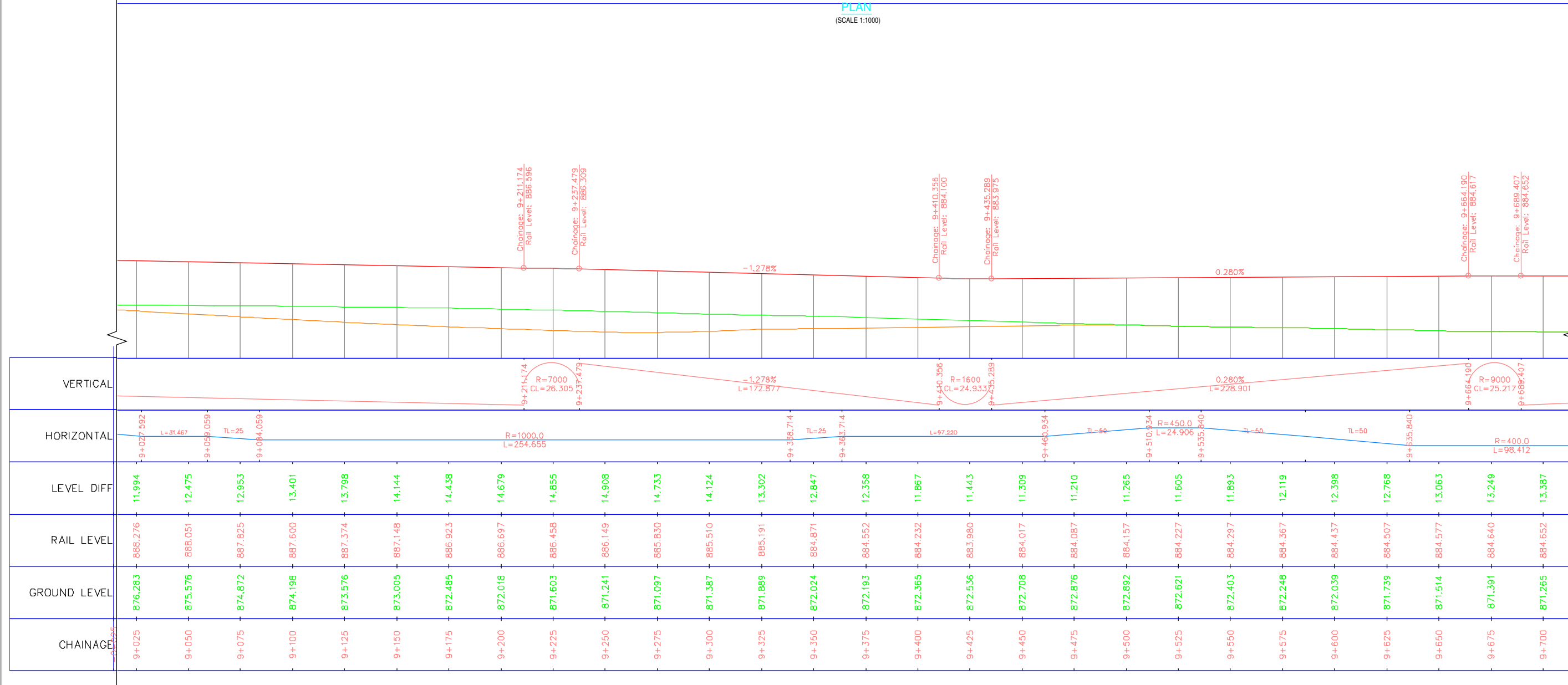
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
- FOLLOW FIGURED DIMENSIONS ONLY.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b> 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 (NO ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP277- ORP302)</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/014</p>	<p>ISSUE RO</p>
					<p>DRN: OSND: CHKG: Dy.CE:</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.

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

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

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> <p>GENERAL ARRANGEMENT DRAWING (ORP302- ORP327)</p>	<p>DWG. TITLE:</p> <p>DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/015</p> <p>DRN: OSND: CHKD: Dy.CE:</p>	<p>ISSUE</p> <p>RO</p> <p>DATE(CURRENT ISSUE): 05/11/2019</p>
			DATE (RO ISSUE) 21/02/2018				