

# Environmental Impact Assessment

---

October 2020

## India: Bengaluru Metro Rail Project

Phase 2A (Outer Road Ring Metro Line)

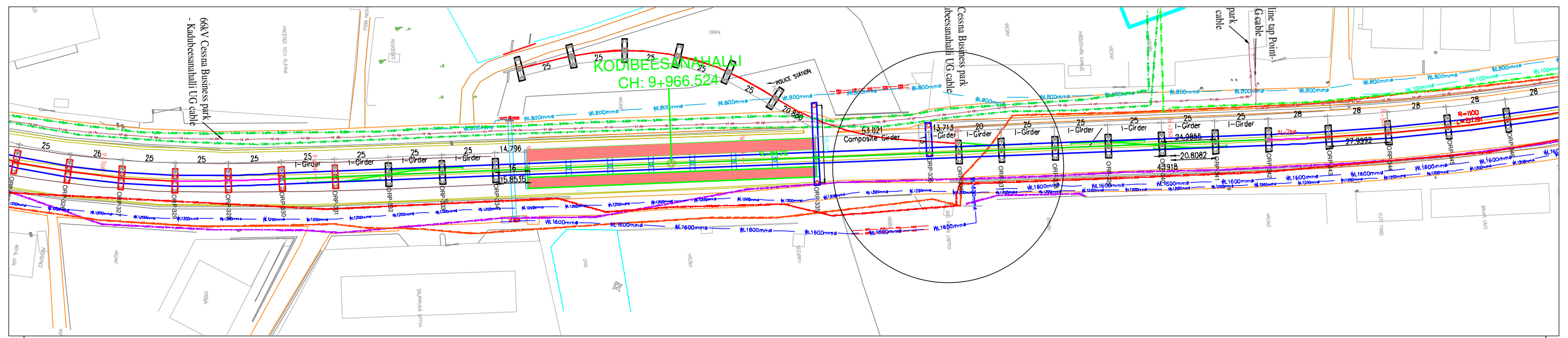
Volume 16  
Annex 5

## 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.

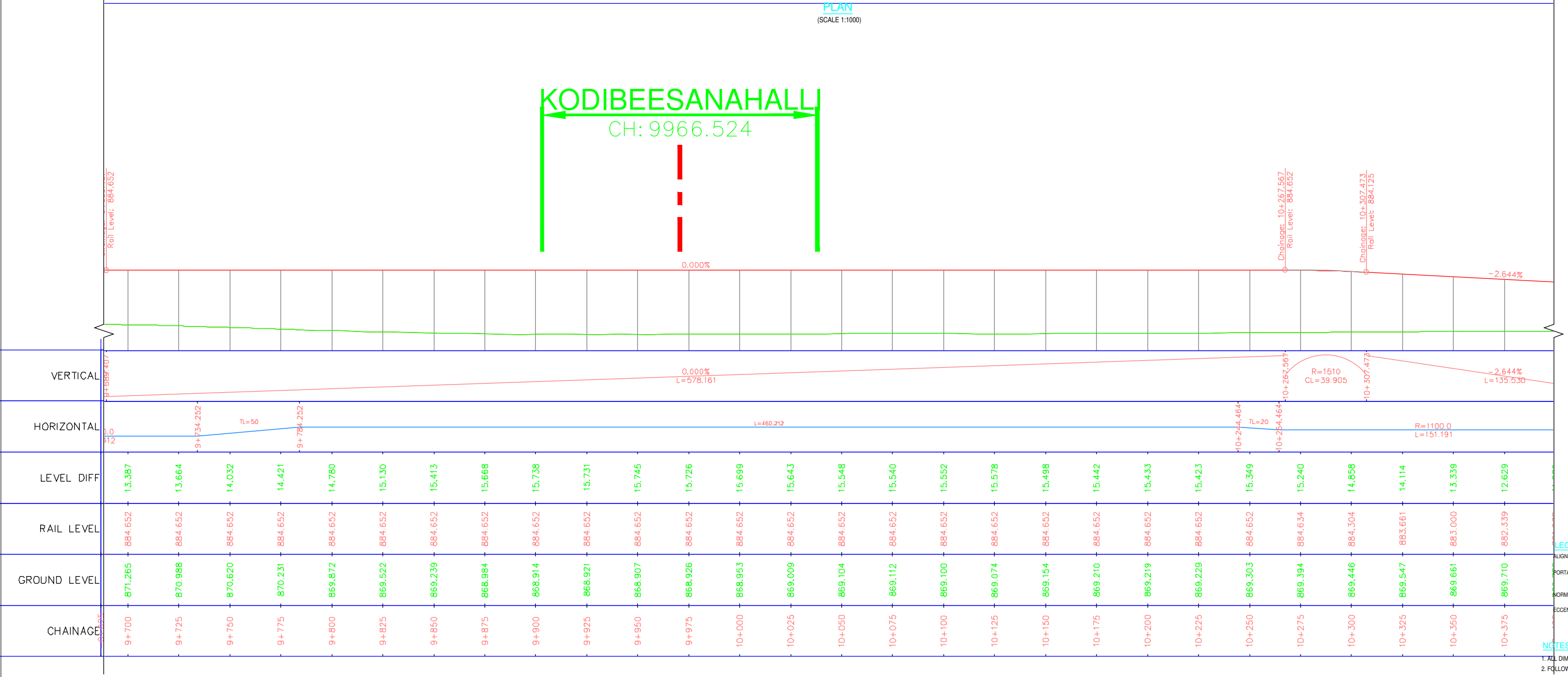
This environmental impact assessment is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. Your attention is directed to the ["terms of use"](#) section on ADB's website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.



PLAN  
(SCALE 1:1000)

**KODIBEESANAHALLI**  
CH: 9966.524



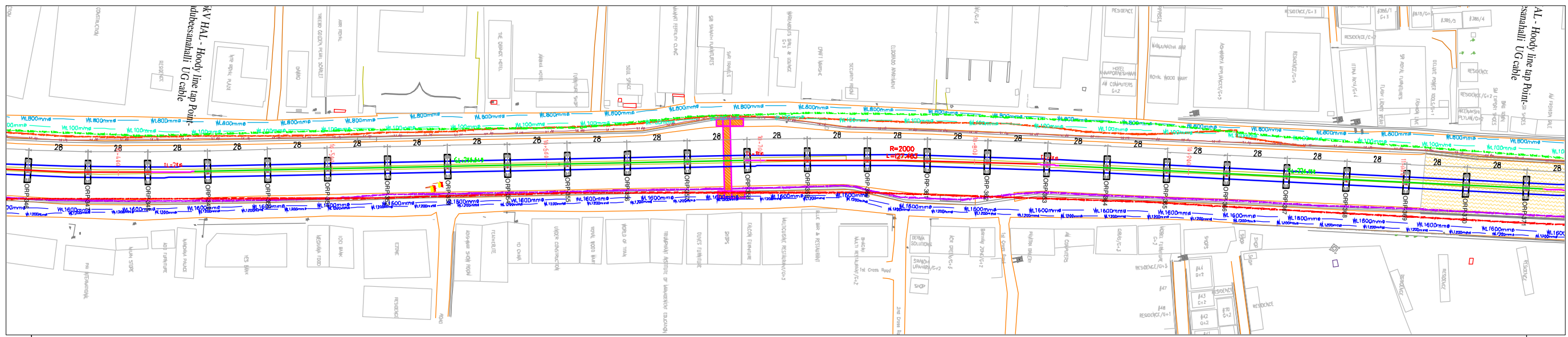
LONGITUDINAL ELEVATION  
(SCALE HOR 1:1000 VER 1:500)

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

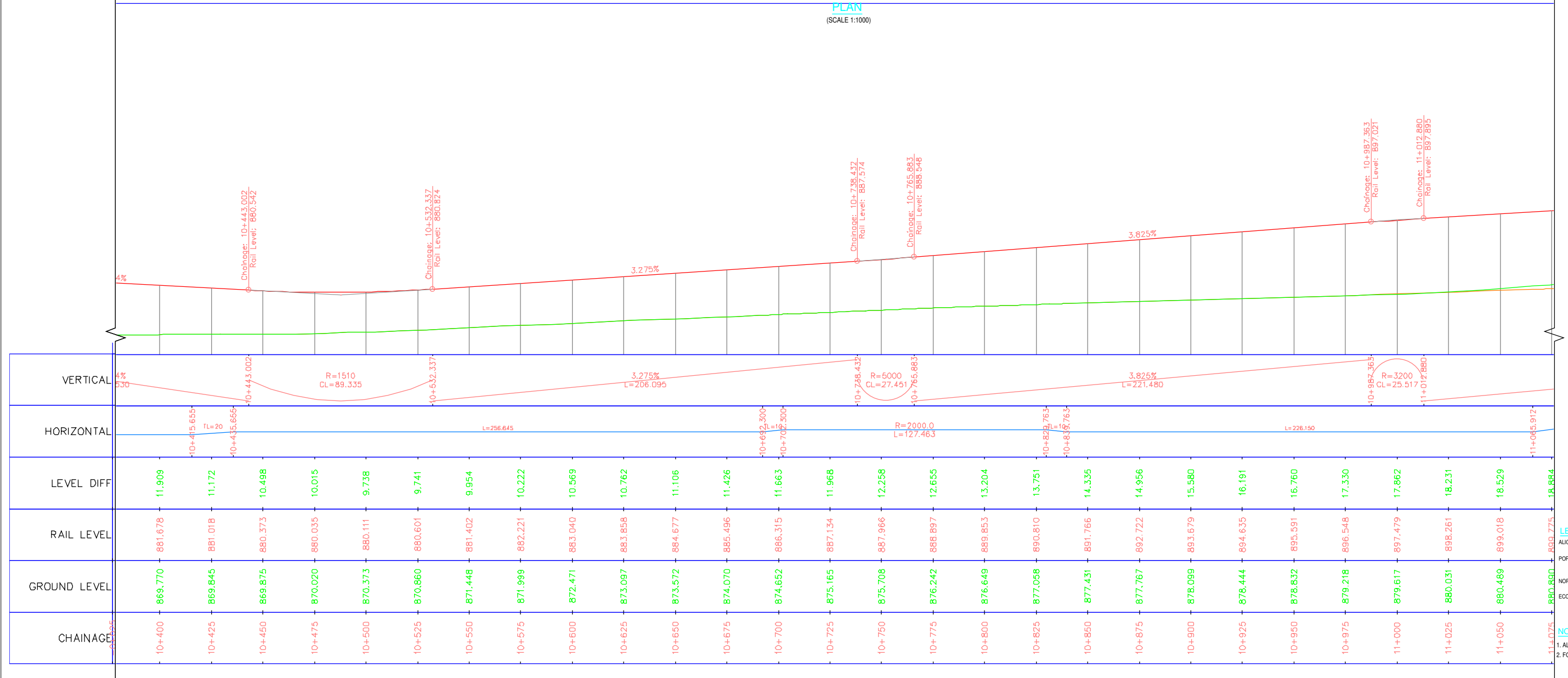
**LEGEND:**  
 ALIGNMENT LINE  
 PORTAL PIER  
 NORMAL PIER  
 ECCENTRIC PIER

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

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b>          A. 3rd Floor, BMTC Complex,          K H Road, Shanthinagar,          Bangalore -560027          Tel:-080-22969300</p>	PHASE IIA - ORR LINE (PACKAGE-2) SILK BOARD JUNCTION TO K.R PURAM	
			DATE (NO ISSUE) 21/02/2018		DWG. TITLE: <b>GENERAL ARRANGEMENT DRAWING (ORP326- ORP346)</b>	
			* 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 IF (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: <b>BMRC/PH-IIA/ORR LINE/VDT/PP/016</b>	ISSUE <b>RO</b>
					DRN: DSND: CHKD: Dy.CE:	DATE (CURRENT ISSUE) <b>05/11/2019</b>

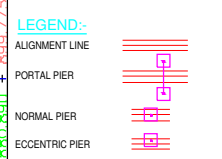


PLAN  
(SCALE 1:1000)



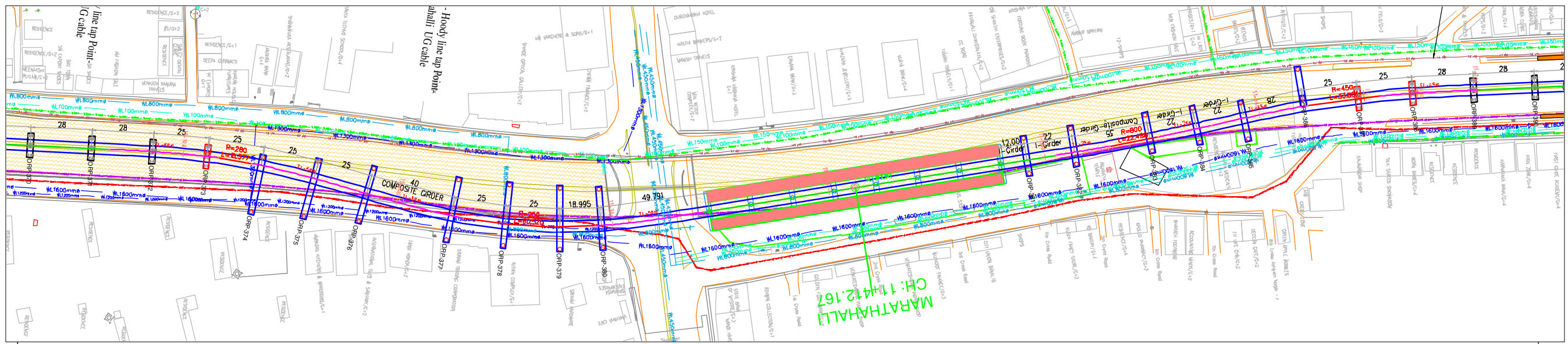
LONGITUDINAL ELEVATION  
(SCALE HOR 1:1000 VER 1:500)

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

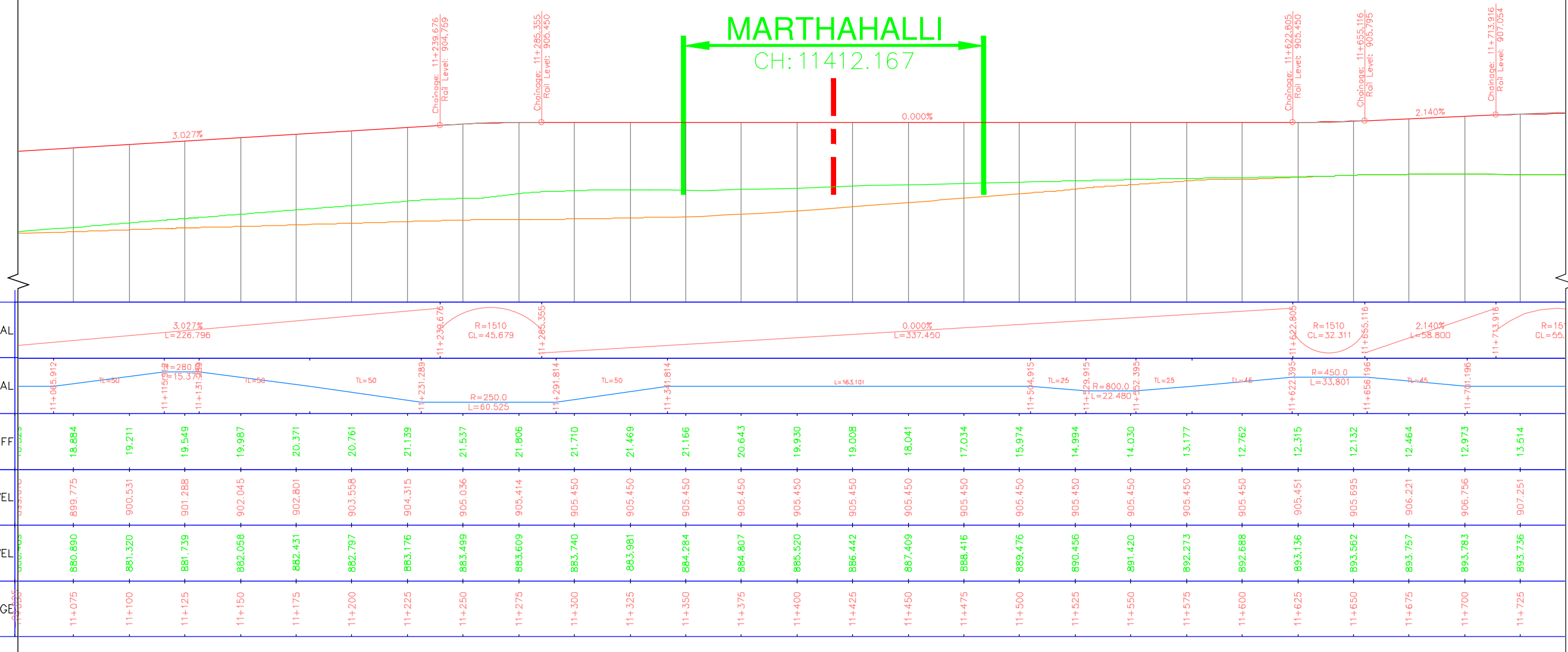


NOTES:  
1. ALL DIMENSIONS AND LEVELS ARE IN METERS.  
2. FOLLOW FIGURED DIMENSIONS ONLY.

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 (ORP346- ORP371)</p>	ISSUE	
			DATE (RO ISSUE) 21/02/2018				DWG. TITLE:
			<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: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/017</p>	ISSUE DATE (CURRENT ISSUE) 05/11/2019		
				<p>DRN:</p>	<p>OSND:</p>	<p>CHKD:</p>	<p>By CE:</p>



PLAN  
(SCALE 1:1000)



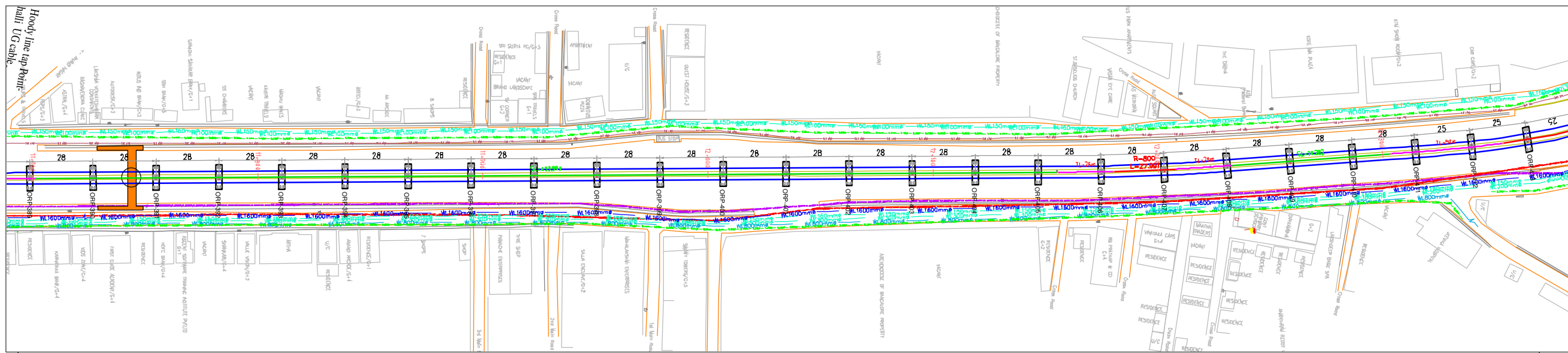
LONGITUDINAL ELEVATION  
(SCALE HOR 1:1000 VER 1:500)

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

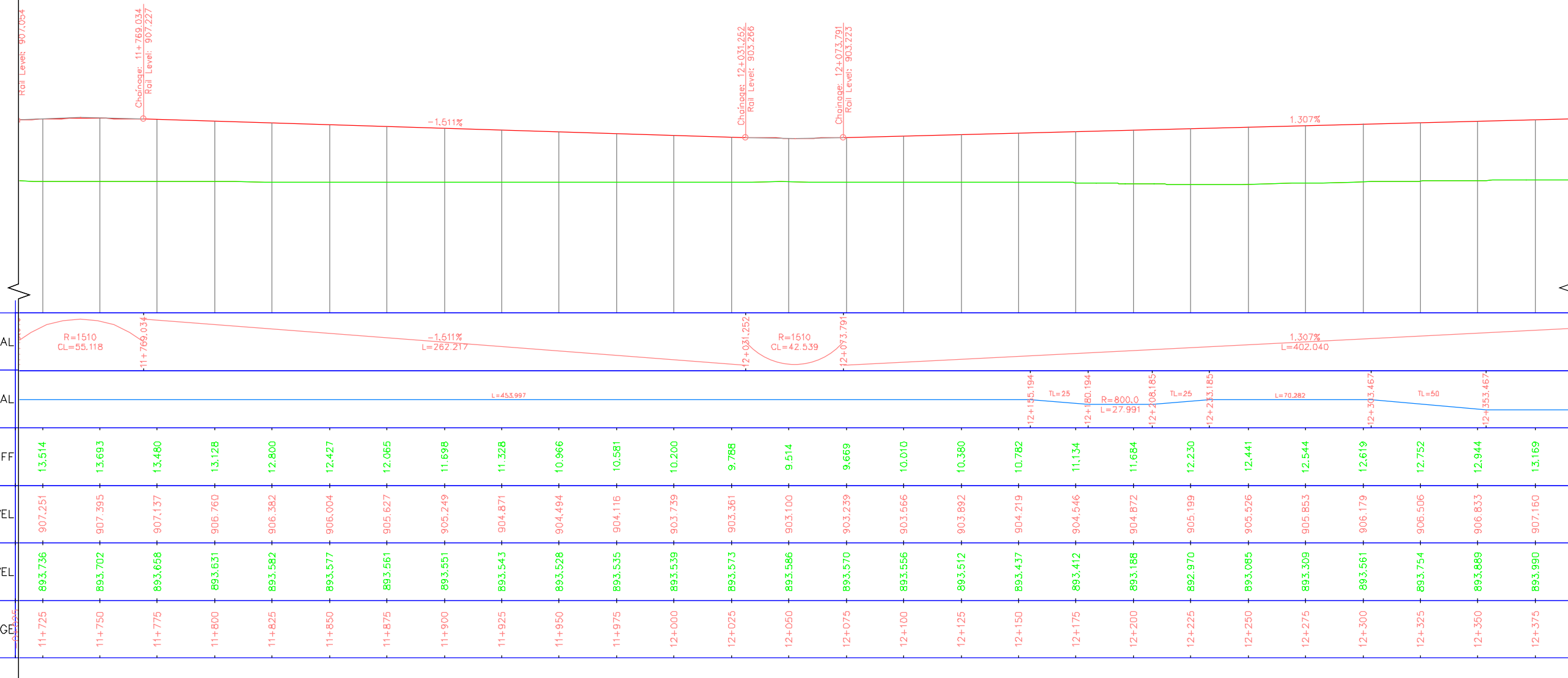
- LEGEND:**
- ALIGNMENT LINE
  - PORTAL PIER
  - NORMAL PIER
  - ECCENTRIC PIER
- NOTES:**
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
  - FOLLOW FIGURED DIMENSIONS ONLY.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p>BANGALORE METRO RAIL CORPORATION LTD A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	PHASE IIA - ORR LINE (PACKAGE-2) SILK BOARD JUNCTION TO K.R PURAM	
			DATE (RO ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP370- ORP390)</p> <p>DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/018</p>	
					ISSUE RO	DATE (CURRENT ISSUE) 05/11/2019





PLAN  
(SCALE 1:1000)



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

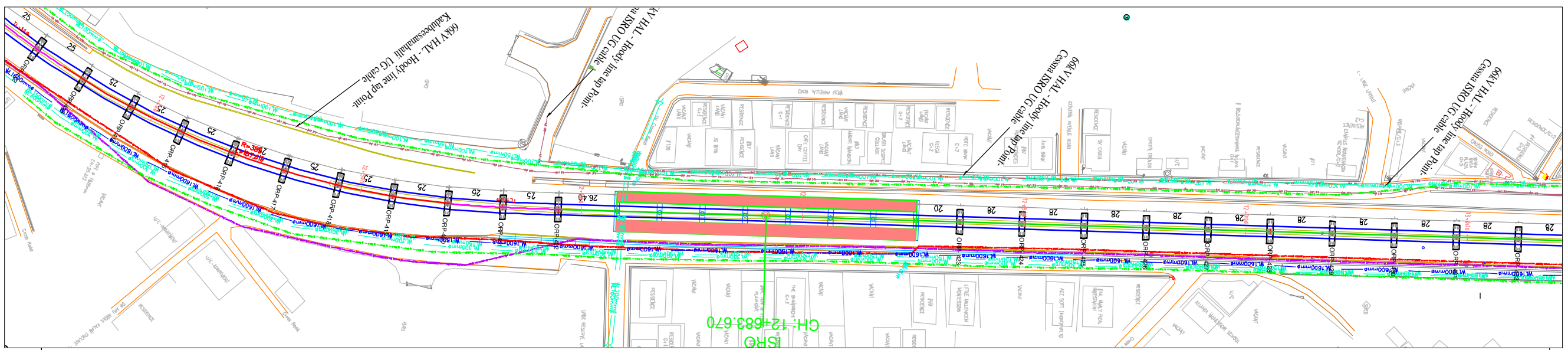
**LEGEND:**

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

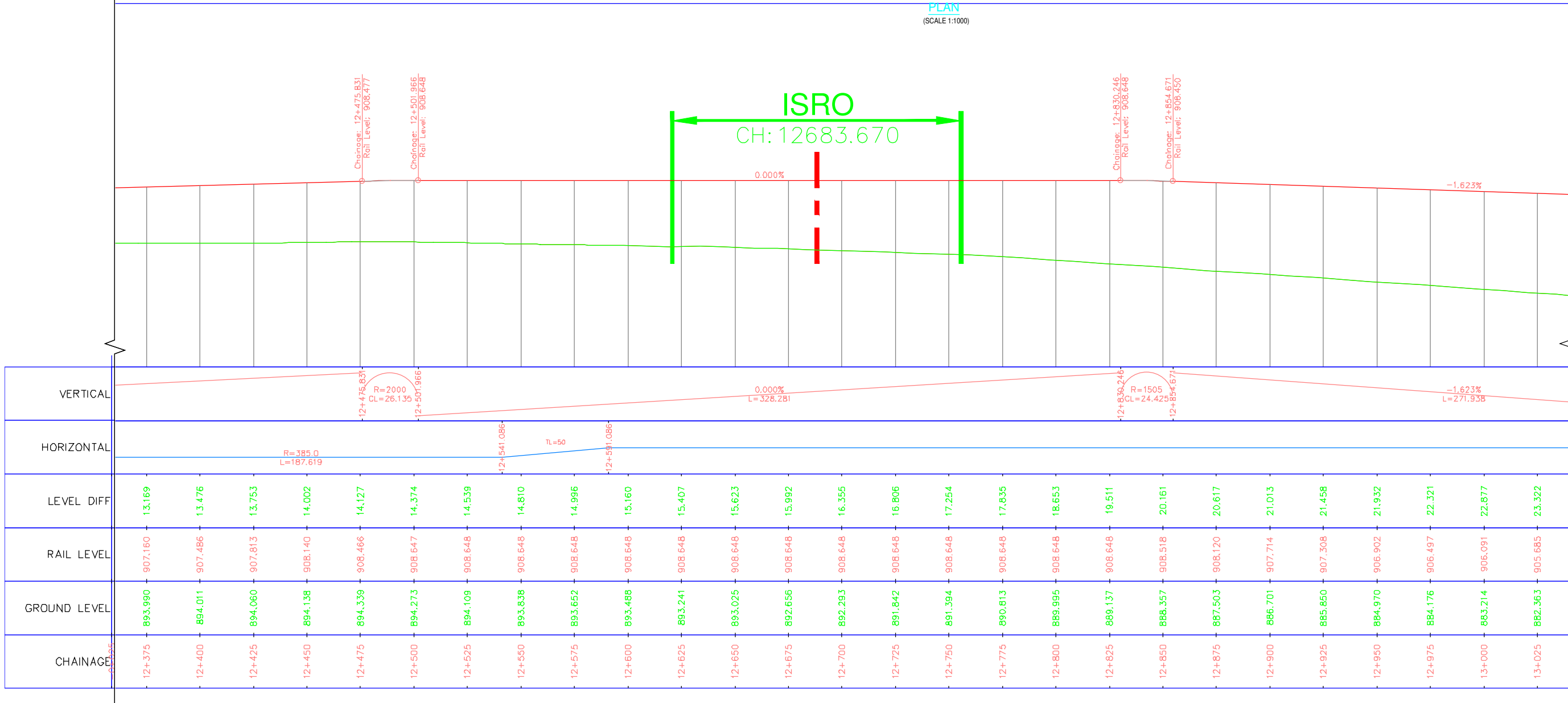
- NOTES:**
1. ALL DIMENSIONS AND LEVELS ARE IN METERS.
  2. FOLLOW FIGURED DIMENSIONS ONLY.

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-2) SILK BOARD JUNCTION TO K.R PURAM</p> <p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP389- ORP413)</p>	
			DATE (NO ISSUE) 21/02/2018		<p>DWG NO: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/019</p> <p>ISSUE RO</p>	<p>DATE(CURRENT ISSUE) 05/11/2019</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>DRN:</p> <p>DSND:</p> <p>CHKG:</p> <p>By.CE:</p>		



PLAN  
(SCALE 1:1000)



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

**LEGEND:**

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

**NOTES:**

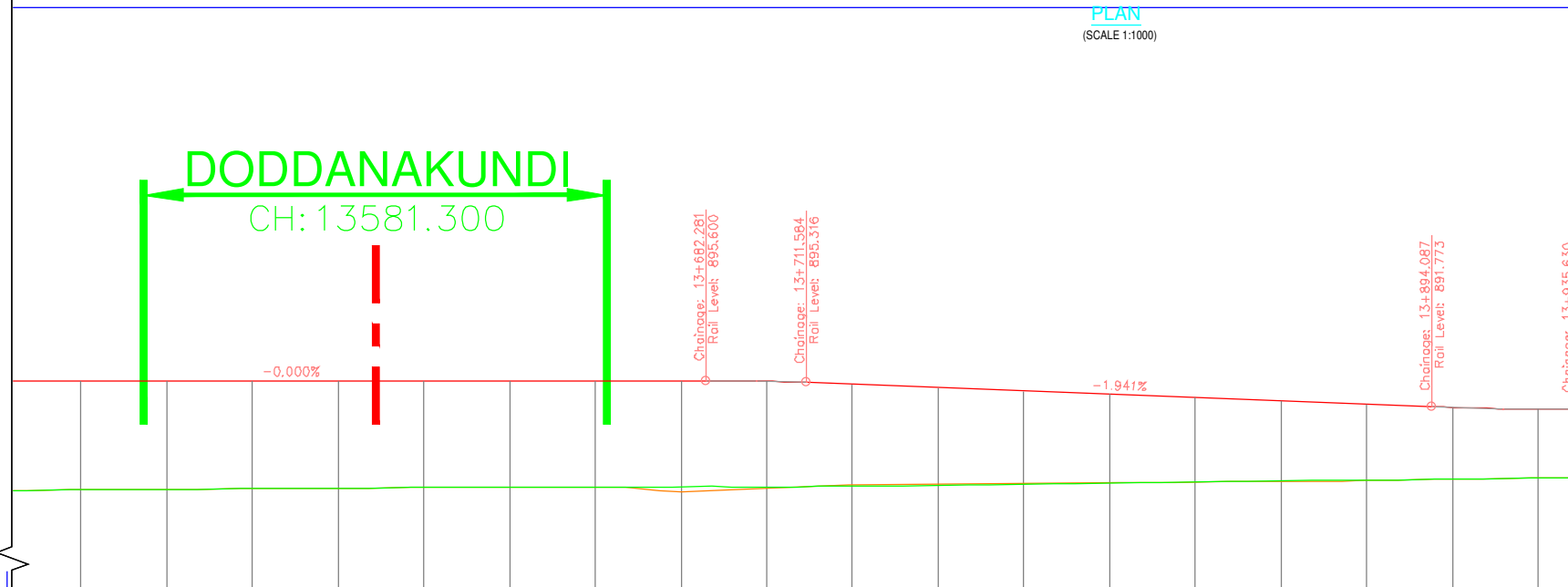
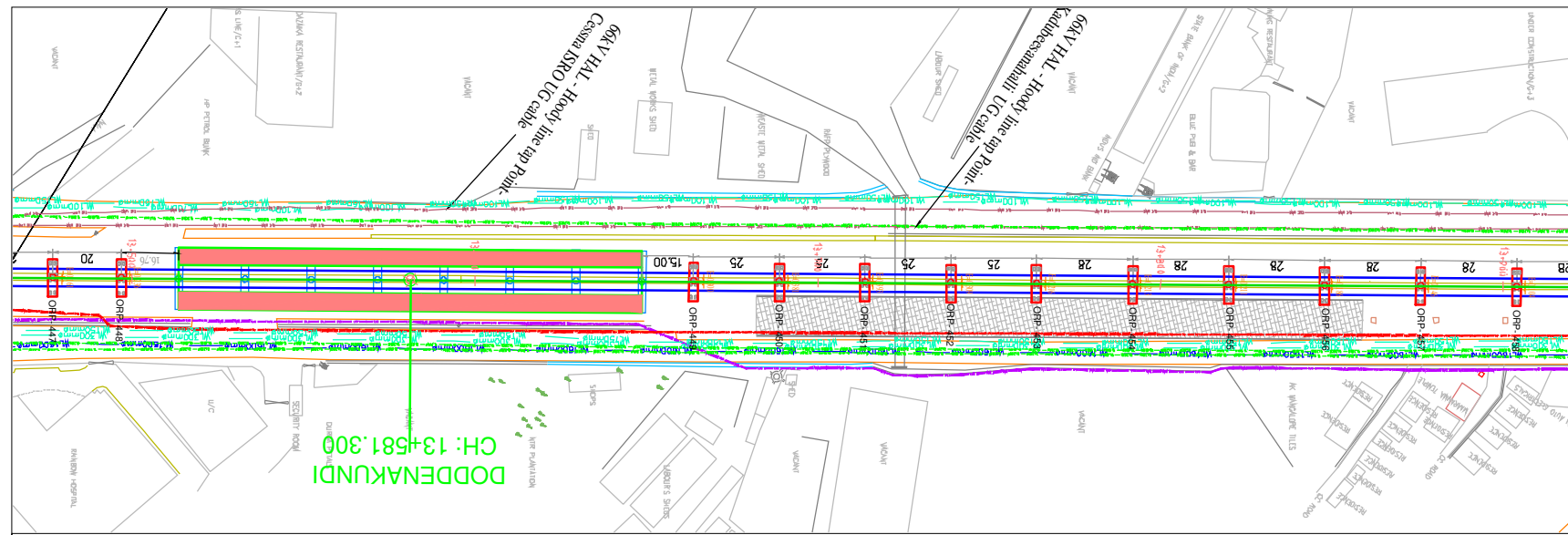
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
- FOLLOW FIGURED DIMENSIONS ONLY.

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

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<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-2) SILK BOARD JUNCTION TO K.R PURAM	
			DATE (RO ISSUE) 21/02/2018		DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP412- ORP432)	
			<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: NO	ISSUE RO
					BMRCL/PH-IIA/ORR LINE/VDT/PP/020	DATE (CURRENT ISSUE) 05/11/2019
					DRN:	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		
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	881.360	891.490	10.110		

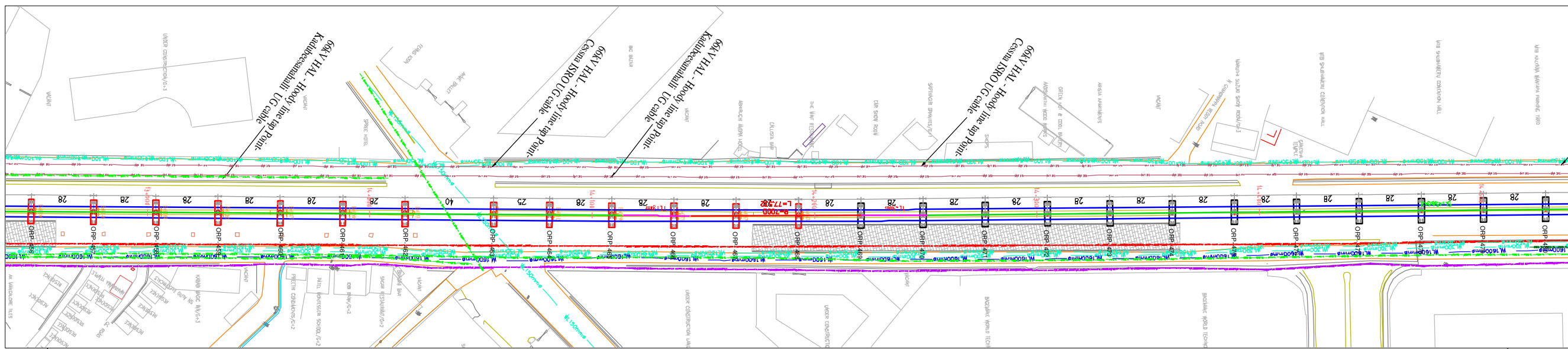
**LEGEND:**

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

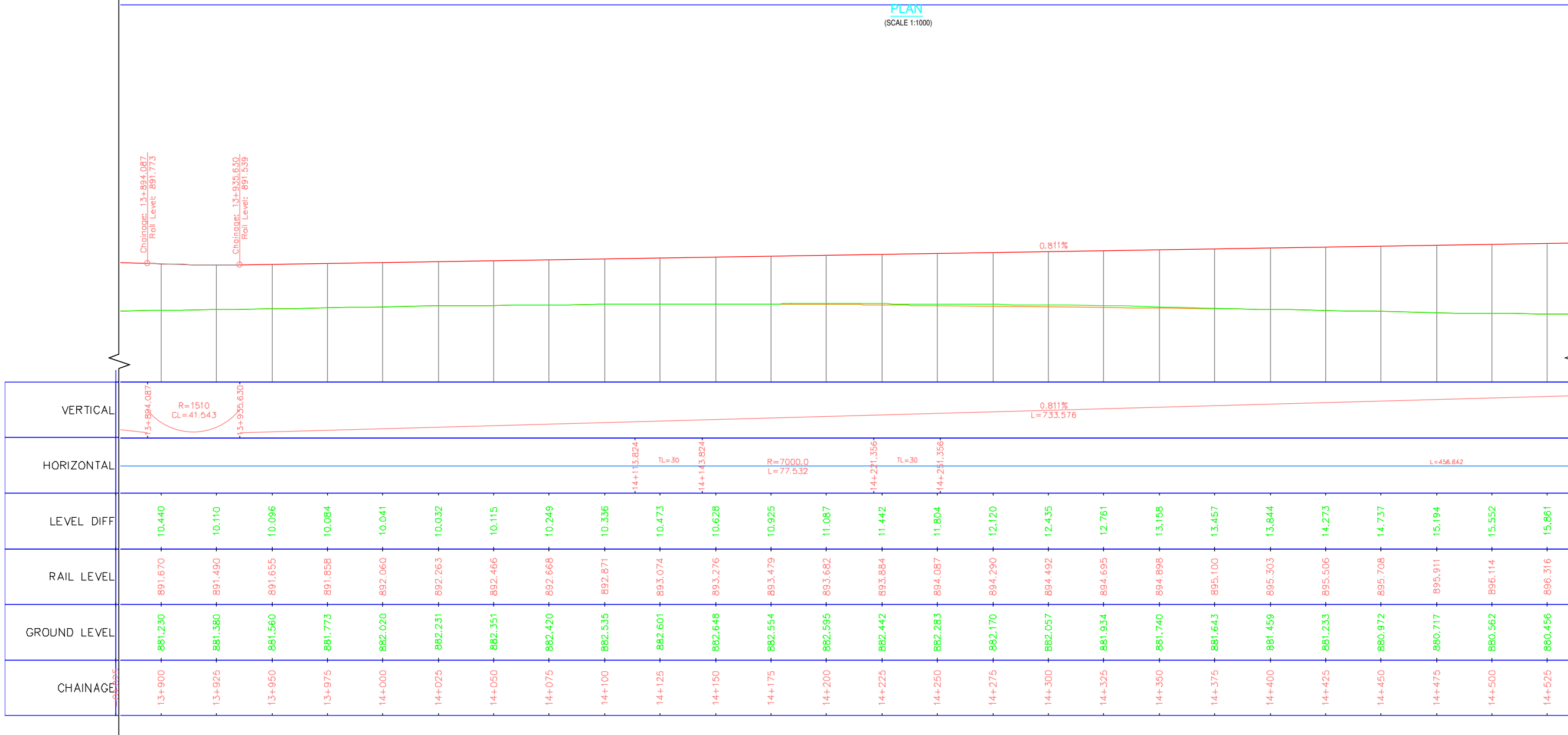
- NOTES:**
- ALL DIMENSIONS AND LEVELS ARE IN METERS.
  - FOLLOW FIGURED DIMENSIONS ONLY.

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

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<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-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 HOLD 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:	DATE (CURRENT ISSUE) 05/11/2019	



PLAN  
(SCALE 1:1000)



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

LEGEND:

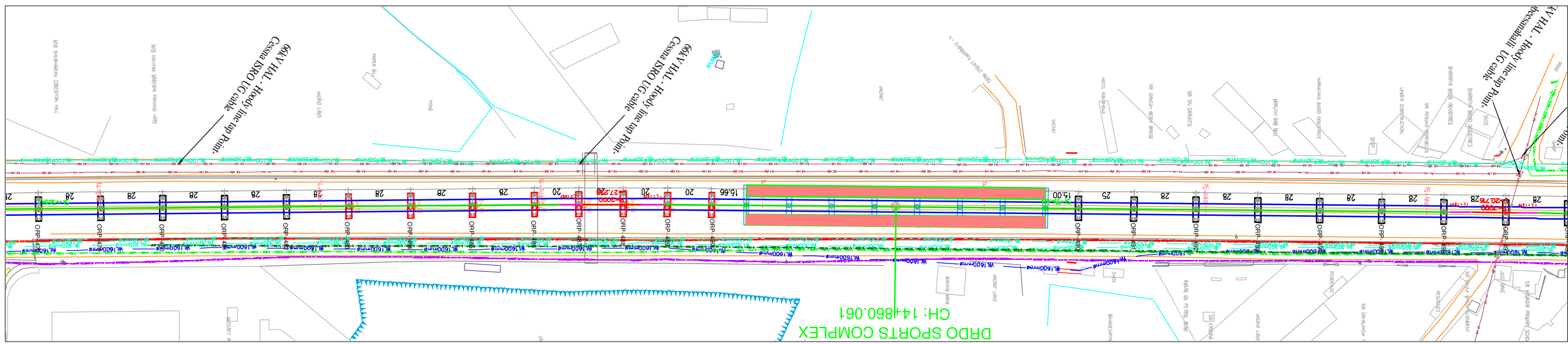
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

NOTES:

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

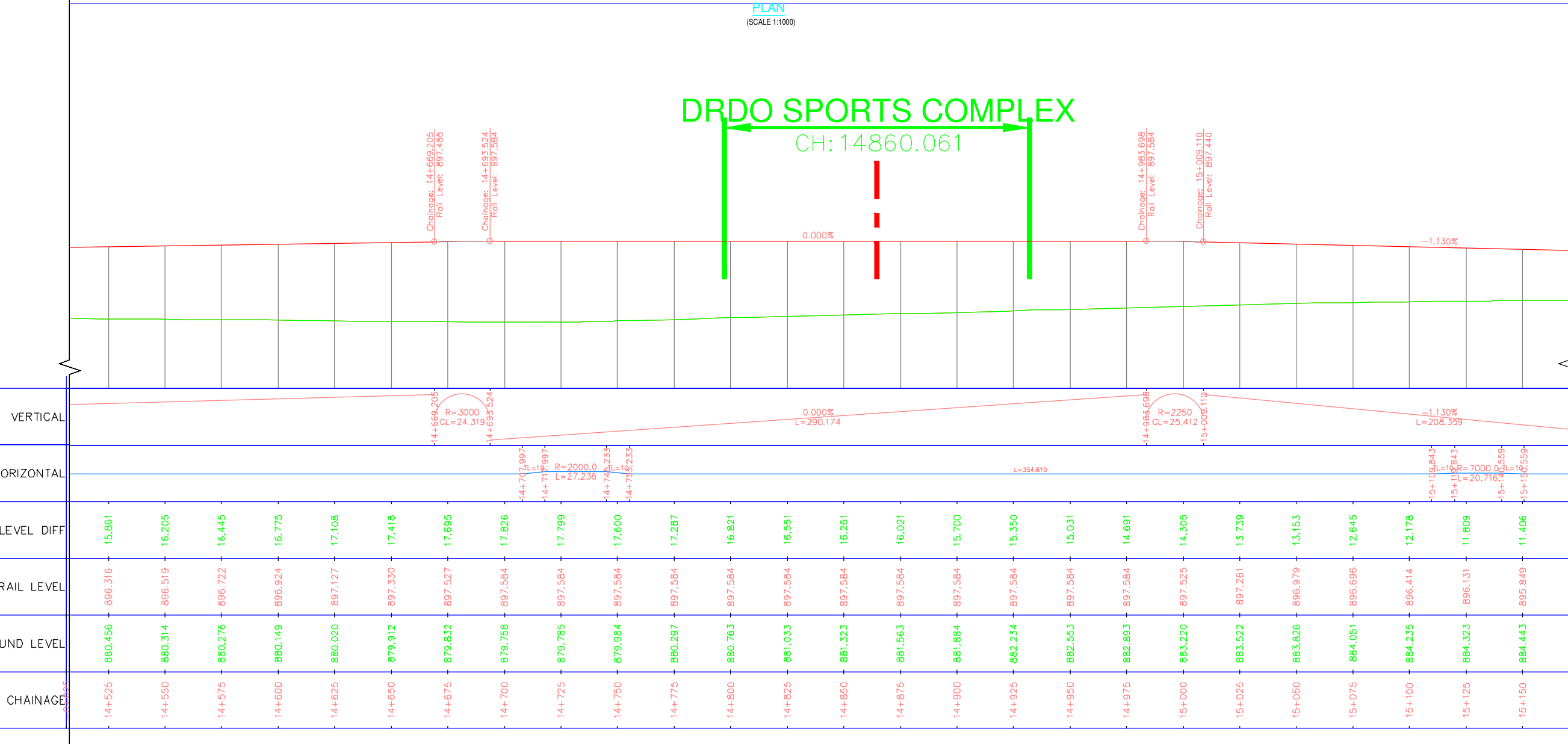
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

ISSUE	APPROVED	DATE	SCALE: AS SHOWN DATE (NO ISSUE) 21/02/2018	<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-3) SILK BOARD JUNCTION TO K.R PURAM</p> <p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP456- ORP480)</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 SET 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/023</p> <p>ISSUE RO</p> <p>DATE (CURRENT ISSUE) 05/11/2019</p>	



## DRDO SPORTS COMPLEX

CH: 14860.061



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

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

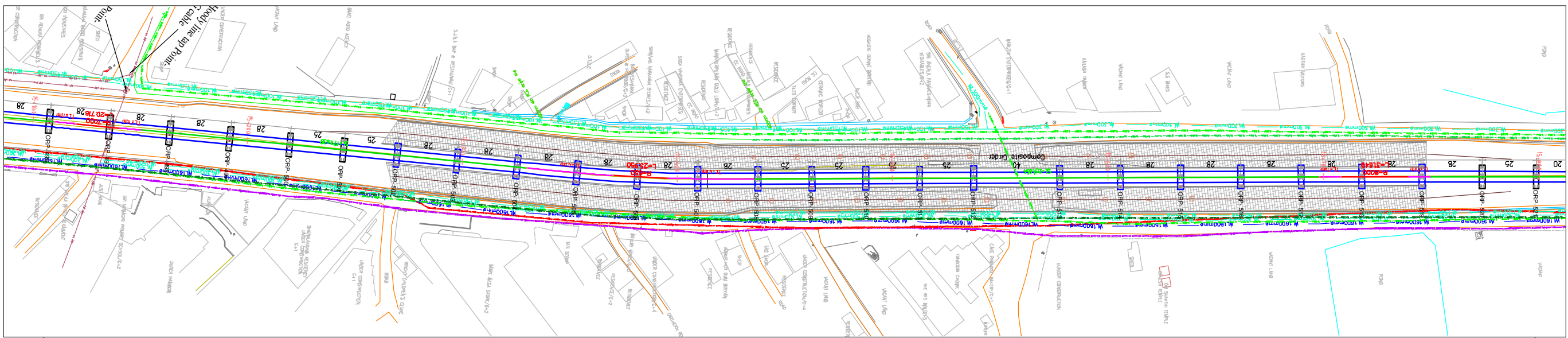
**LEGEND:**

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

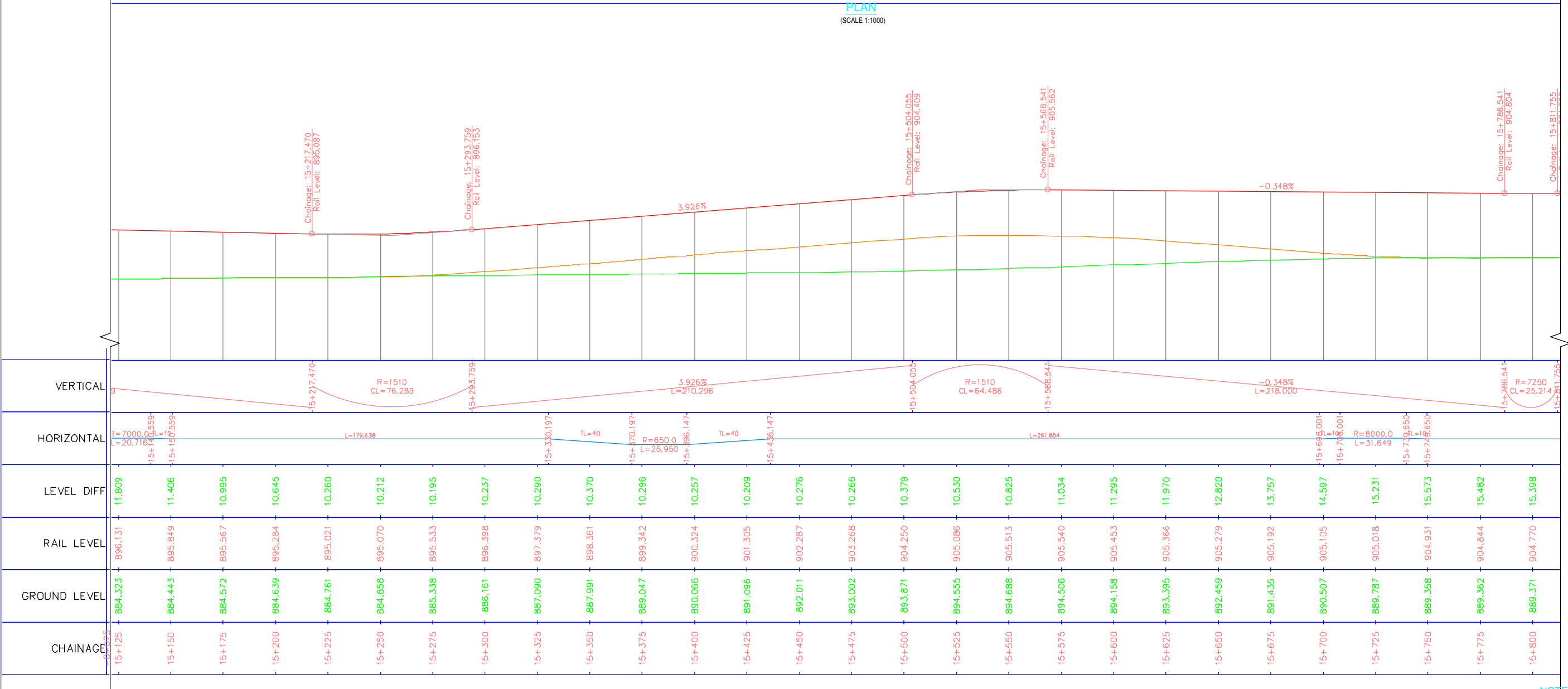
**NOTES:**

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

<b>ISSUE</b>		<b>APPROVED</b>	<b>DATE</b>	<b>SCALE:</b> AS SHOWN	 <b>BANGALORE METRO RAIL CORPORATION LTD</b> A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300	<b>PHASE IIA - ORR LINE (PACKAGE-3)</b> <b>SILK BOARD JUNCTION TO K.R PURAM</b>	
				<b>DATE (RO ISSUE)</b> 21/02/2018		<b>GENERAL ARRANGEMENT DRAWING (ORP478- ORP497)</b>	
				<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 IF (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>		<b>GENERAL ARRANGEMENT DRAWING (ORP478- ORP497)</b>	
						<b>BMRCL/PH-IIA/ORR LINE/VDT/PP/024</b>	<b>ISSUE</b> <b>RO</b>
						<b>DRN:</b> <b>DSND:</b> <b>CHKD:</b> <b>By.CE:</b>	<b>DATE (CURRENT ISSUE)</b> <b>05/11/2019</b>



PLAN  
(SCALE 1:1000)



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

**LEGEND:**

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

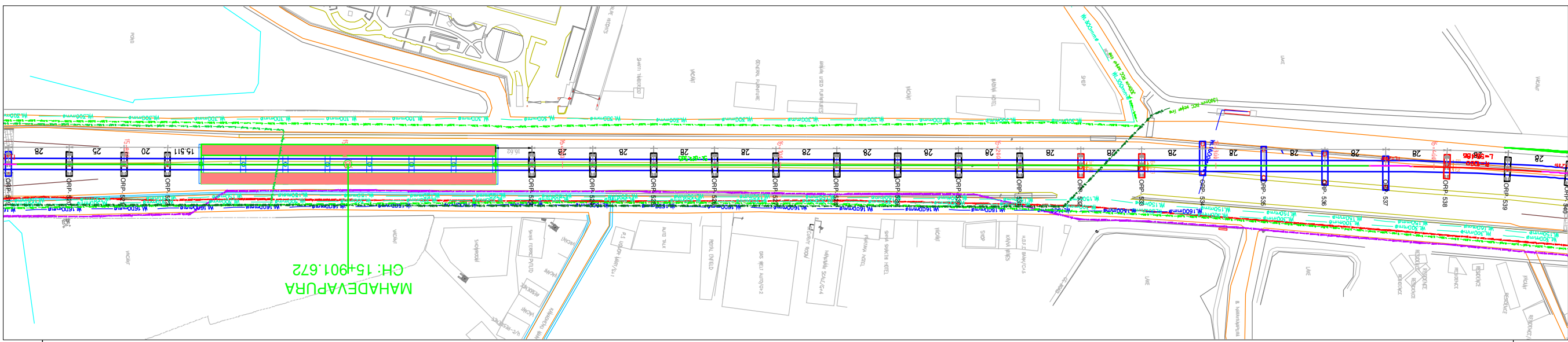
**NOTES:**

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

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

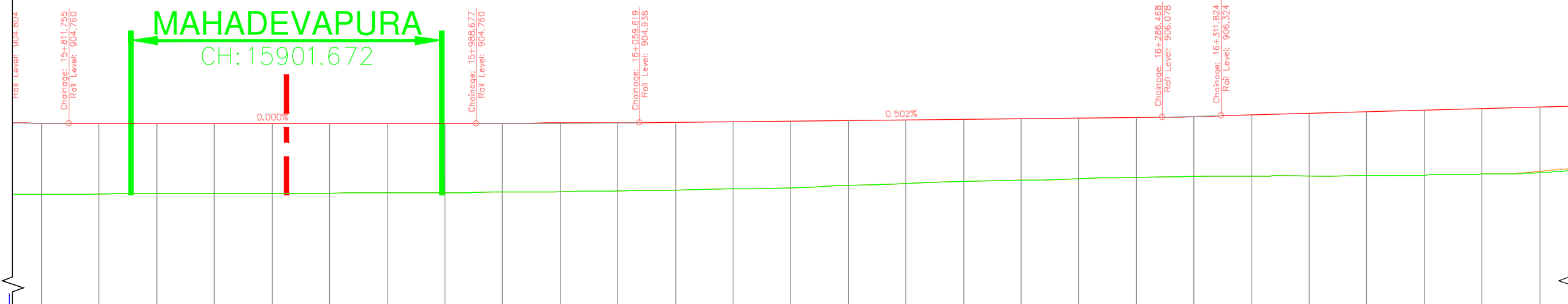
ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b> A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-3) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (NO ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP496- ORP521)</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. HOLD 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/025</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKD: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>





PLAN  
(SCALE 1:1000)

MAHADEVAPURA  
CH: 15901.672



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

CHAINAGE	GROUND LEVEL	RAIL LEVEL	LEVEL DIFF	HORIZONTAL	VERTICAL
15+800	889.371	904.770	15.398	R=7250 CL=25.214 L=15+811.755	0.000% L=176.922
15+825	889.458	904.760	15.302		
15+850	889.512	904.760	15.248	R=14120 CL=70.942	0.502% L=226.850
15+875	889.563	904.760	15.197		
15+900	889.577	904.760	15.183	R=2700 CL=25.356	0.502% L=226.850
15+925	889.623	904.760	15.137		
15+950	889.669	904.760	15.091	R=1000.0 L=59.486	0.502% L=226.850
15+975	889.750	904.760	15.010		
16+000	889.846	904.765	14.919	R=1000.0 L=59.486	0.502% L=226.850
16+025	889.971	904.807	14.836		
16+050	890.103	904.893	14.790	R=1000.0 L=59.486	0.502% L=226.850
16+075	890.328	905.015	14.688		
16+100	890.627	905.141	14.514	R=1000.0 L=59.486	0.502% L=226.850
16+125	890.841	905.267	14.426		
16+150	891.252	905.392	14.140	R=1000.0 L=59.486	0.502% L=226.850
16+175	891.667	905.518	13.851		
16+200	892.111	905.644	13.532	R=1000.0 L=59.486	0.502% L=226.850
16+225	892.423	905.769	13.346		
16+250	892.716	905.895	13.179	R=1000.0 L=59.486	0.502% L=226.850
16+275	893.032	906.020	12.988		
16+300	893.221	906.180	12.959	R=1000.0 L=59.486	0.502% L=226.850
16+325	893.352	906.514	13.162		
16+350	893.333	906.875	13.542	R=1000.0 L=59.486	0.502% L=226.850
16+375	893.400	907.235	13.835		
16+400	893.543	907.596	14.053	R=1000.0 L=59.486	0.502% L=226.850
16+425	893.721	907.956	14.236		
16+450	894.339	908.316	13.977		

**LEGEND:**

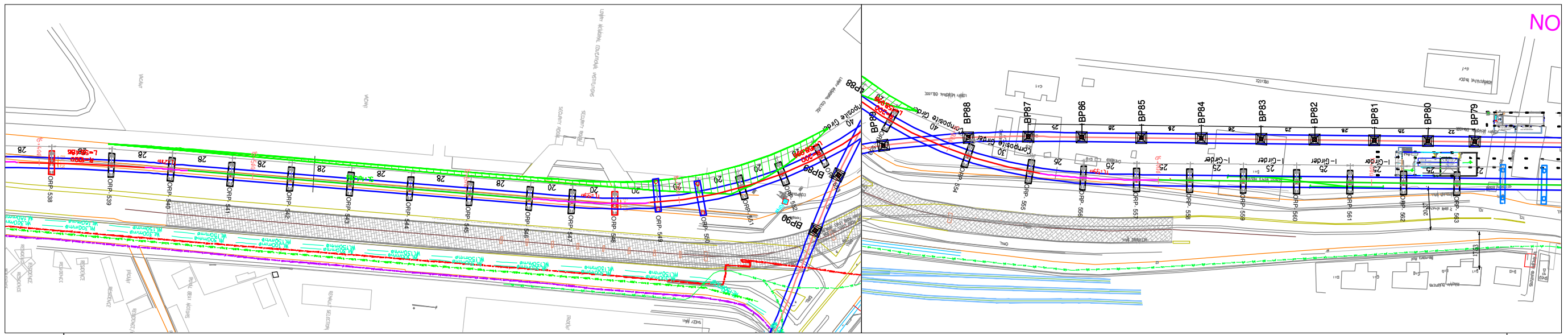
- ALIGNMENT LINE
- PORTAL PIER
- NORMAL PIER
- ECCENTRIC PIER

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

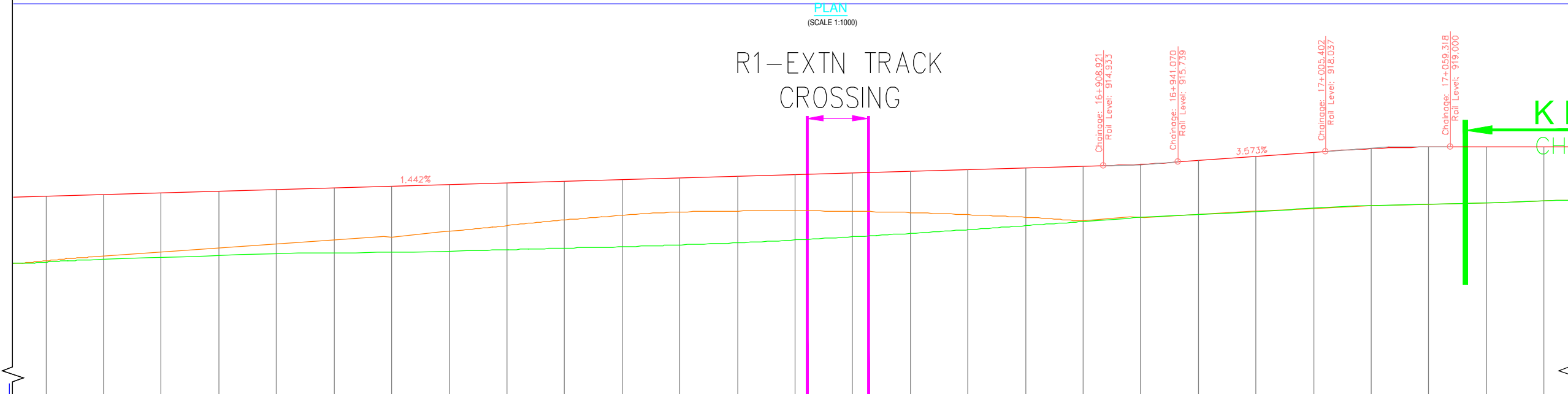
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.

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-3) SILK BOARD JUNCTION TO K.R PURAM</p>				
			DATE (RD ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP520- ORP539)</p>	<p>DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/026</p>	<p>ISSUE RO</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>DRN:</p>	<p>OSND:</p>	<p>CHKD:</p>	<p>By.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>





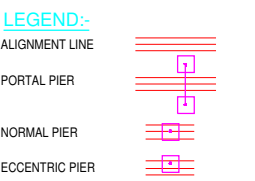
### R1-EXTN TRACK CROSSING



CHAINAGE	GROUND LEVEL	RAIL LEVEL	LEVEL DIFF	HORIZONTAL	VERTICAL
16+450	894.339	908.316	13.977	$L=161.283$	$L=597.097$
16+475	895.345	908.677	13.332	$TL=20$	
16+500	896.210	909.037	12.827		
16+525	897.075	909.398	12.322		
16+550	897.941	909.758	11.817		
16+575	898.806	910.119	11.312		
16+600	899.517	910.479	10.962		
16+625	900.764	910.839	10.076	$L=610.984$	
16+650	901.968	911.200	9.231	$TL=55$	
16+675	903.187	911.560	8.373	$L=685.984$	
16+700	904.192	911.921	7.728	$R=200.0$	
16+725	904.926	912.281	7.355	$L=158.935$	
16+750	905.139	912.642	7.503		
16+775	905.185	913.002	7.817		
16+800	905.065	913.362	8.297		
16+825	904.781	913.723	8.942	$TL=55$	
16+850	904.336	914.083	9.747	$L=844.980$	
16+875	903.758	914.444	10.686		
16+900	903.054	914.804	11.750	$L=839.980$	
16+925	903.780	915.250	11.470	$R=1510$	
16+950	904.391	916.058	11.667	$CL=32.149$	
16+975	905.054	916.951	11.897	$L=64.532$	
17+000	905.673	917.844	12.171	$L=17+006.402$	
17+025	906.297	918.610	12.313	$R=1510$	
17+050	906.594	918.971	12.378	$CL=53.916$	
17+075	906.890	919.000	12.110	$L=17+059.318$	
17+100	907.299	919.000	11.701	$L=17+059.318$	

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

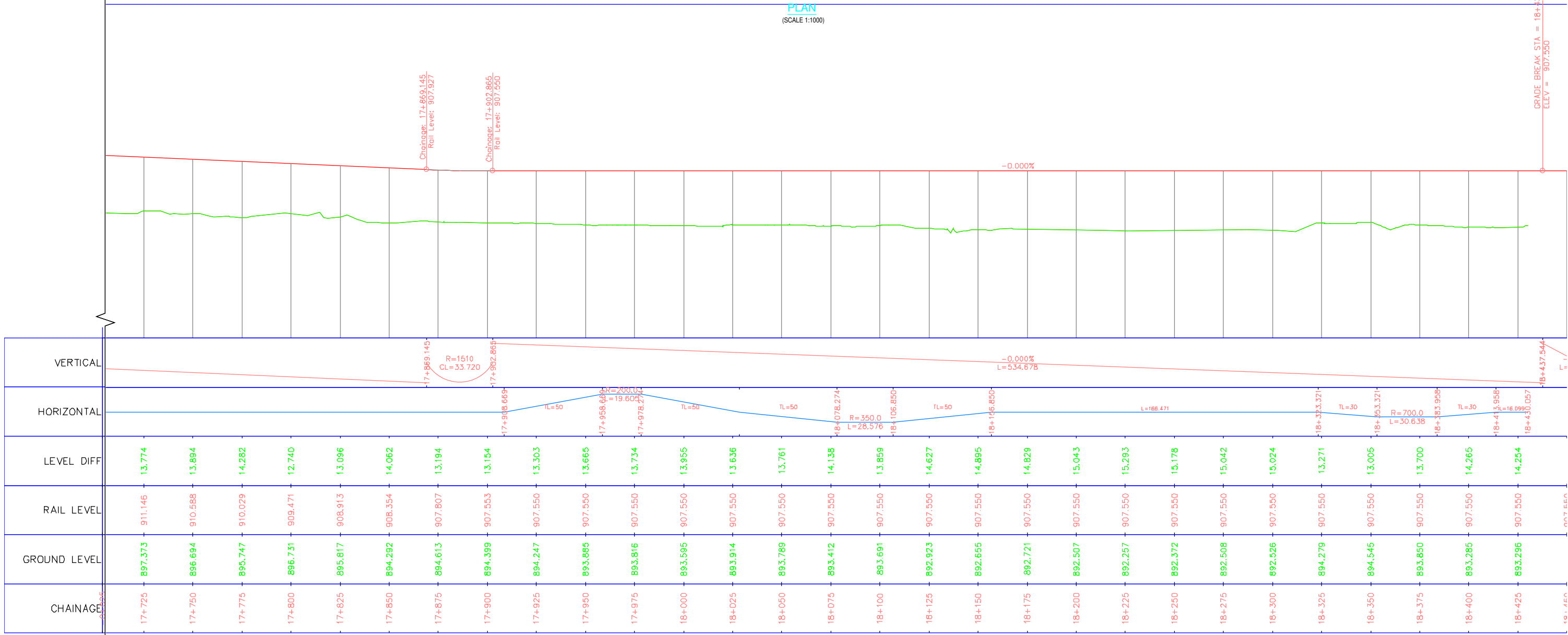
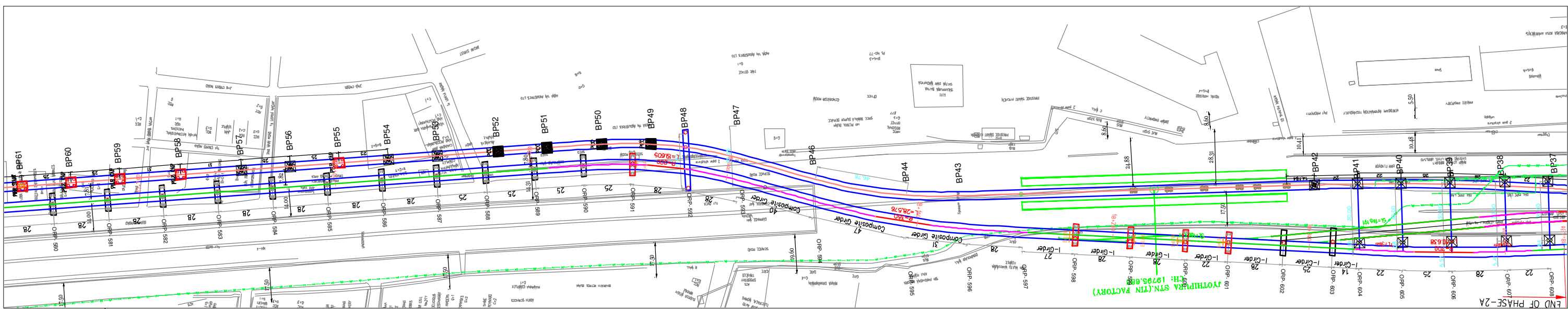
ALIGNMENT AND LEVELS MAY CHANGE DURING CONSTRUCTION BASED ON SITE CONDITIONS.



- NOTES:**
1. ALL DIMENSIONS AND LEVELS ARE IN METERS.
  2. 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-3) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (RO ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING (ORP538- ORP563)</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: NO BMRCL/PH-IIA/ORR LINE/VDT/PP/027</p>	<p>ISSUE RO</p>
					<p>DRN: DSND: CHKD: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 05/11/2019</p>



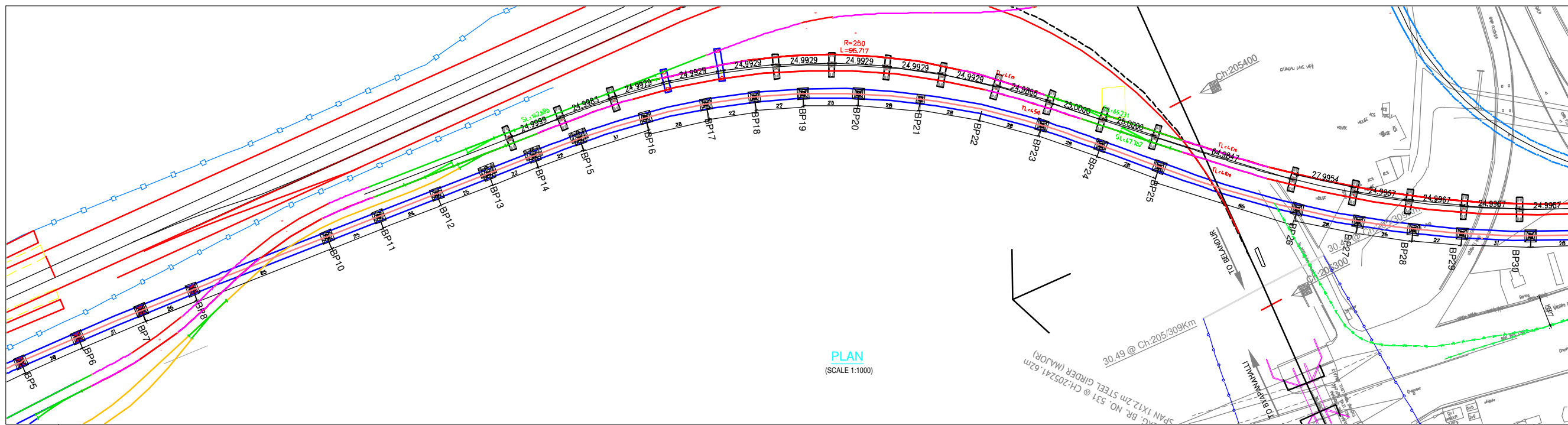


NOTES:

- 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 (NO ISSUE): 21/02/2018	<p>BANGALORE METRO RAIL CORPORATION LTD</p> <p>A. 3rd Floor, BMTC Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-3)</p> <p>SILK BOARD JUNCTION TO K.R PURAM</p> <p>GENERAL ARRANGEMENT DRAWING (ORP580- ORP608)</p>
						<p>DWG. TITLE:</p> <p>DWG NO: BMRCL/PH-IIA/ORR LINE/VDT/PP/029</p> <p>ISSUE: RO</p> <p>DATE (CURRENT ISSUE): 05/11/2019</p>



PLAN  
(SCALE 1:1000)

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

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

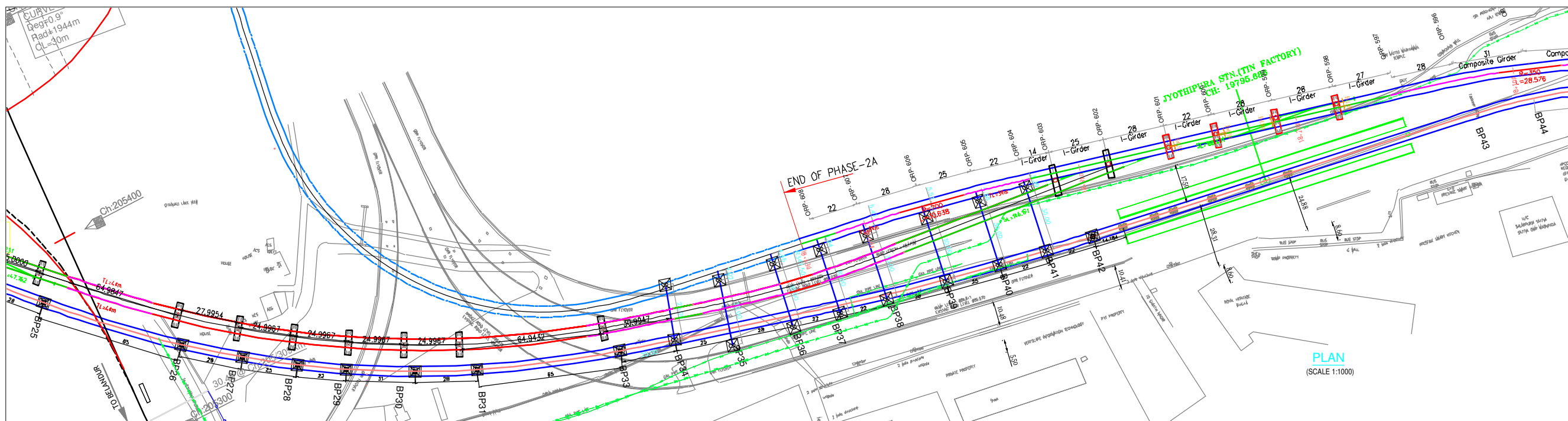
LONGITUDINAL ELEVATION  
(SCALE HOR 1:1000 VER 1:500)

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

FOR TENDER PURPOSE ONLY

ISSUE	APPROVED	DATE	SCALE: AS SHOWN	<p><b>BANGALORE METRO RAIL CORPORATION LTD</b> A. 3rd Floor, BMTCL Complex, K H Road, Shanthinagar, Bangalore -560027 Tel:-080-22969300</p>	<p>PHASE IIA - ORR LINE (PACKAGE-3) SILK BOARD JUNCTION TO K.R PURAM</p>	
			DATE (FOR ISSUE) 21/02/2018		<p>DWG. TITLE: GENERAL ARRANGEMENT DRAWING FOR DEPOT ENTRY (ORDP28- ORDP7)</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: BMRCL/PH-IIA/ORR LINE/VDT/PP/030</p>	<p>ISSUE R0</p>
					<p>DRN: OSNO: CHKD: Dy.CE:</p>	<p>DATE (CURRENT ISSUE) 21/02/2018</p>






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	 <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-3) SILK BOARD JUNCTION TO K.R PURAM <b>GENERAL ARRANGEMENT DRAWING FOR DEPOT ENTRY (ORDP7- ORP654)</b>	
			DATE (RO ISSUE) 21/02/2018		DWG. TITLE: BMRCL/PH-IIA/ORR LINE/VDT/PP/031 DWG NO: DRN:	ISSUE <b>R1</b> DATE(CURRENT ISSUE) <b>24/11/2018</b>

\* (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.