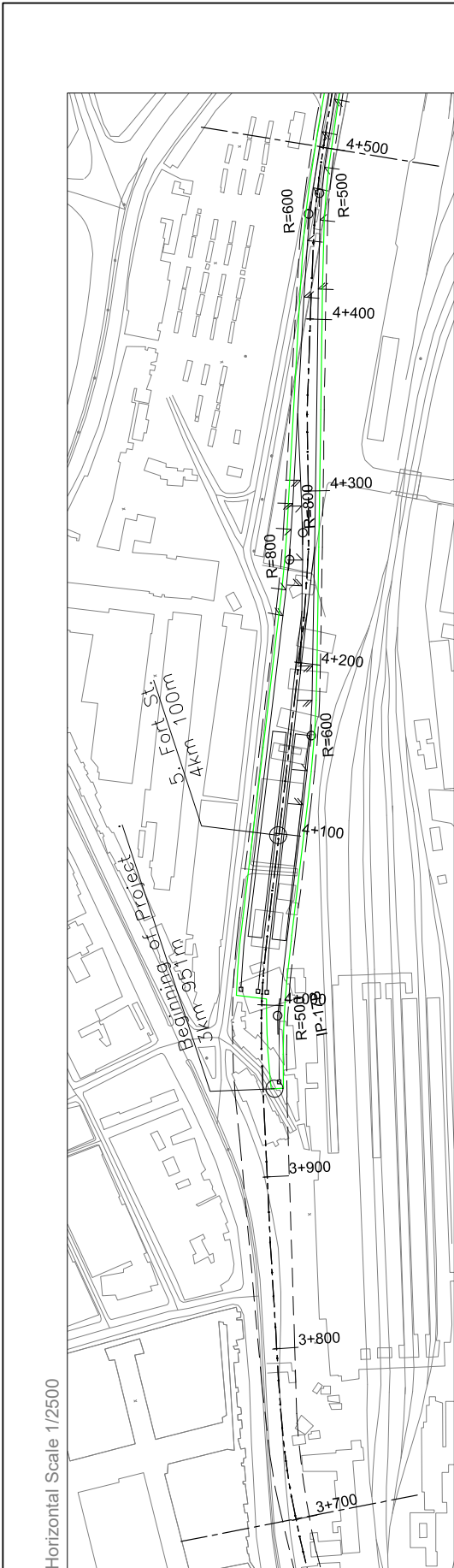
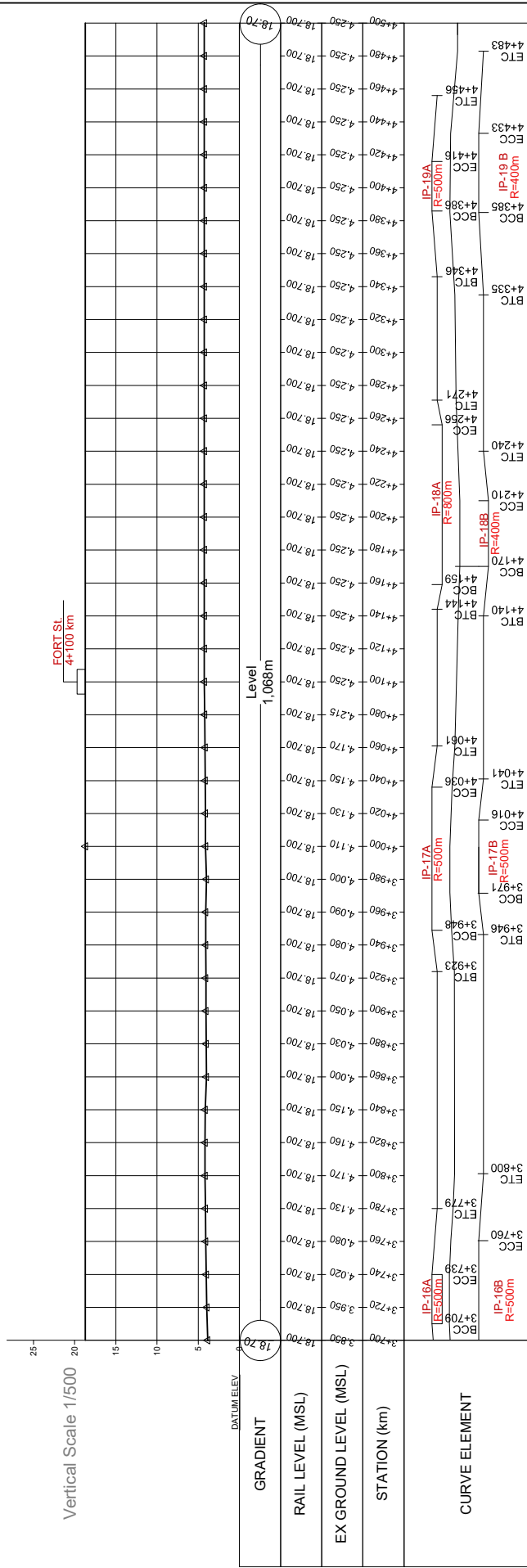


Appendix 4 Plan & Profile Drawings



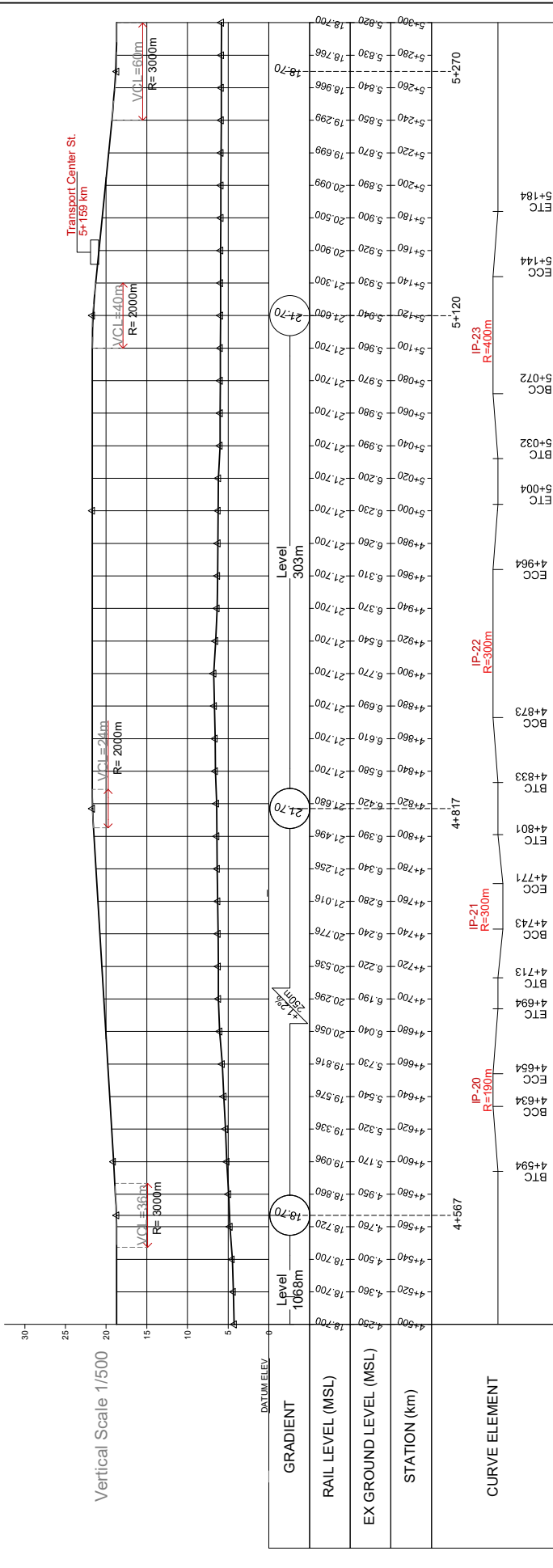
Horizontal Scale 1/2500



Vertical Scale 1/500

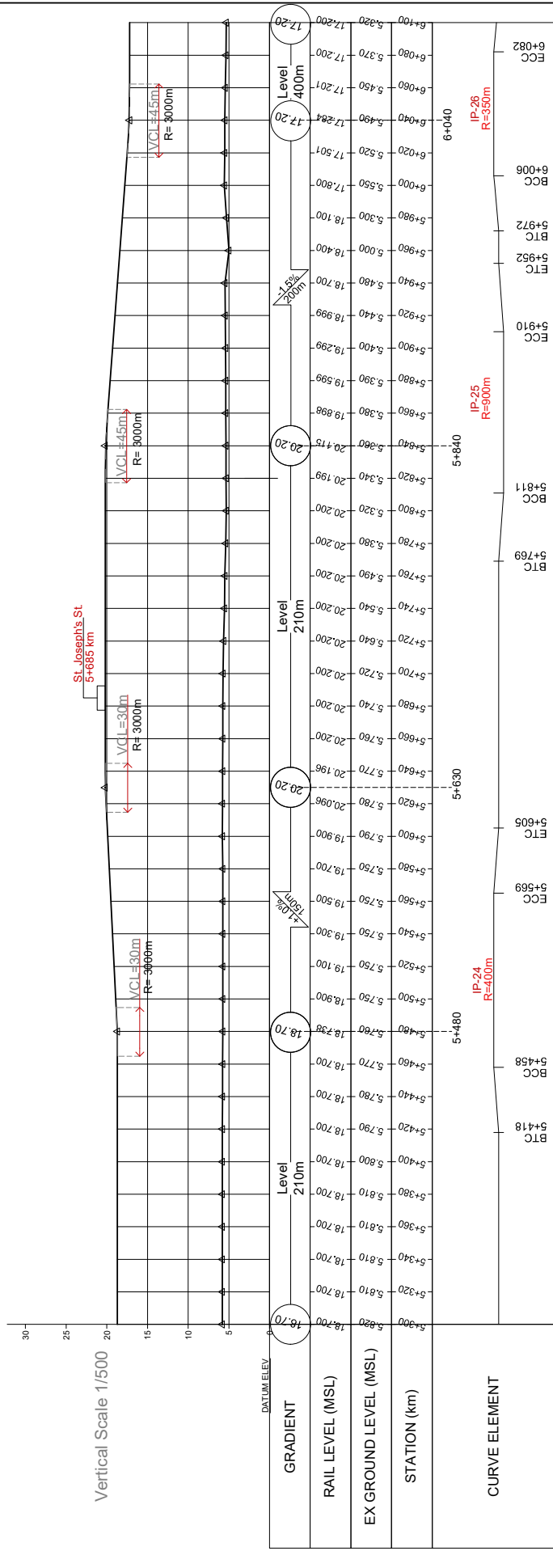
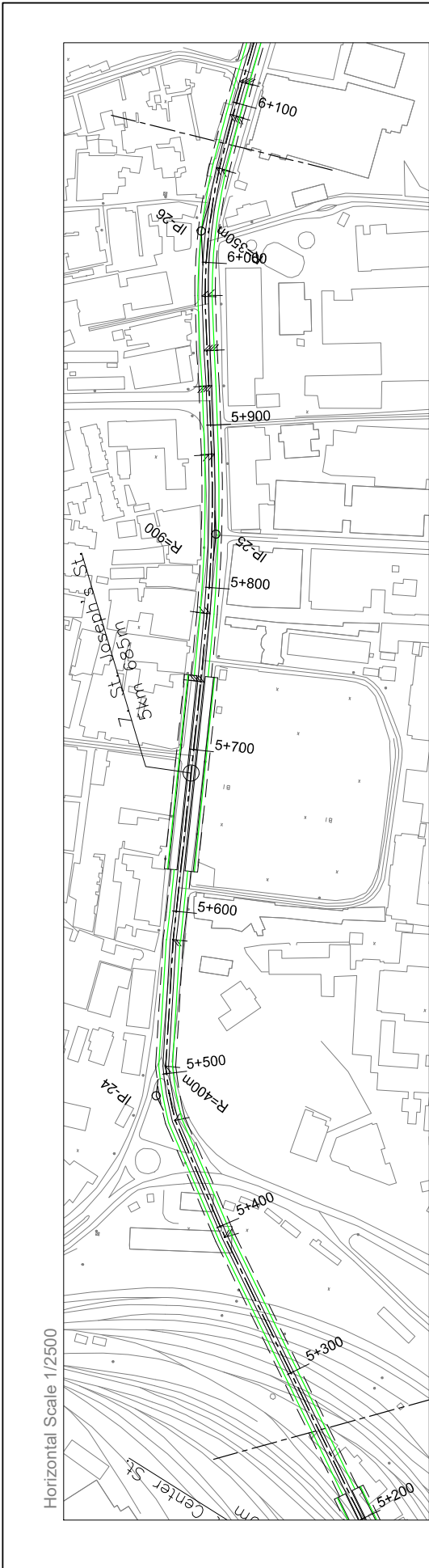
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			TITLE	NAME	SIGNATURE			
			DESIGNER					
			TEAM LEADER					
			PR. MANAGER					
			FEASIBILITY STUDY TRACK ALIGNMENT 3+700km ~ 4+500km					
								REV. XT

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VERSIONS	DATE	DESCRIPTION	CONSULTANT	TITLE	NAME	SIGNATURE	ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	SCALE	DATE
				DESIGNER			FEASIBILITY STUDY	SCALE	12/18/2017
				TEAM LEADER			TRACK ALIGNMENT 4+500km ~ 5+300km		
				PR. MANAGER					

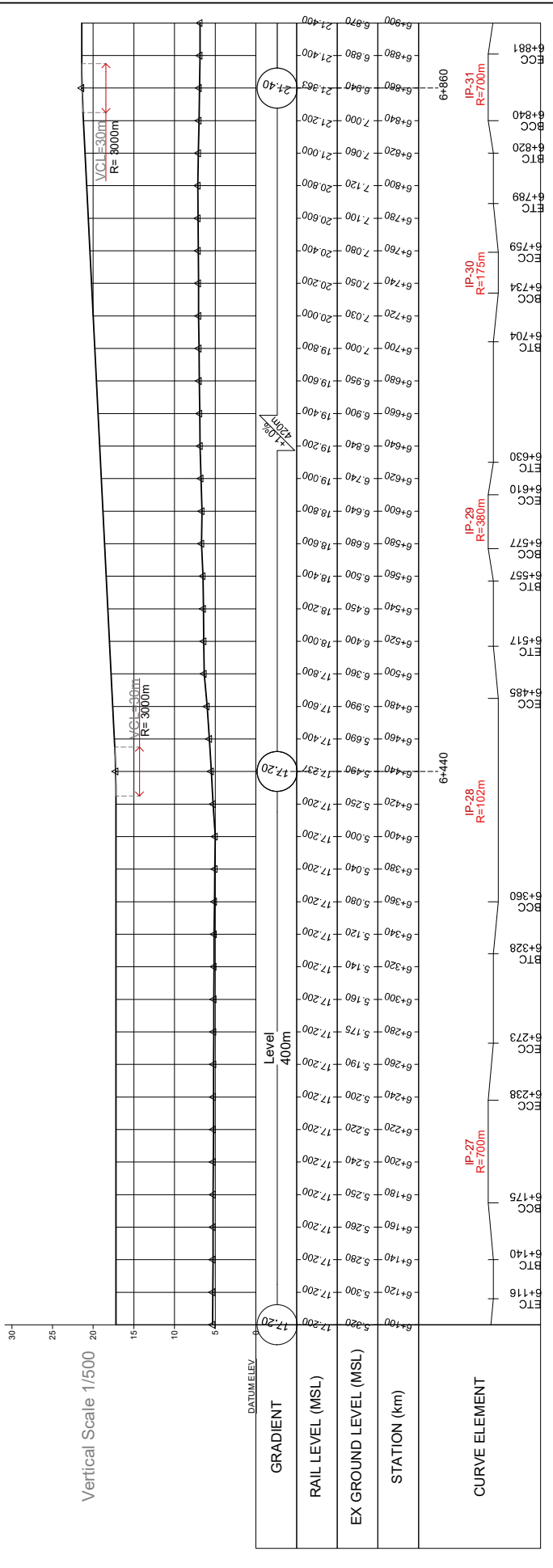
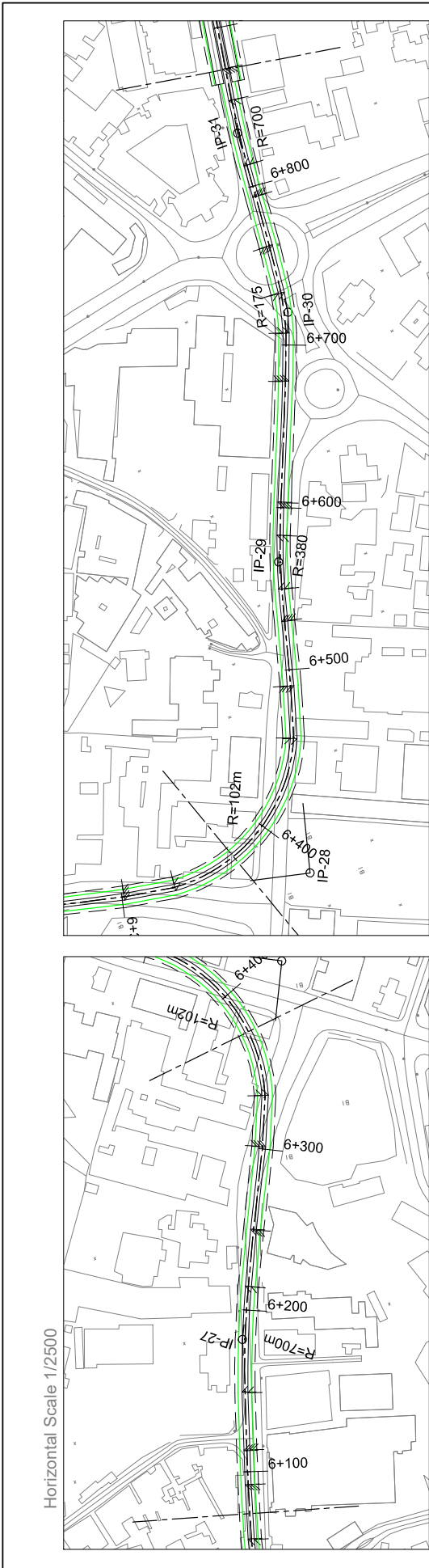
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VERSIONS	DATE	DESCRIPTION

CONSULTANT		DATE
		12/18/2017
TITLE	ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	SCALE
DESIGNER	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SHEET No.
TEAM LEADER	ORIENTAL CONSULTANTS GLOBAL CO., LTD	DRG No.
PR. MANAGER	TONICHI ENGINEERING CONSULTANTS INC	DRG S.

FEASIBILITY STUDY	
TRACK ALIGNMENT	5+300Km ~ 6+100Km



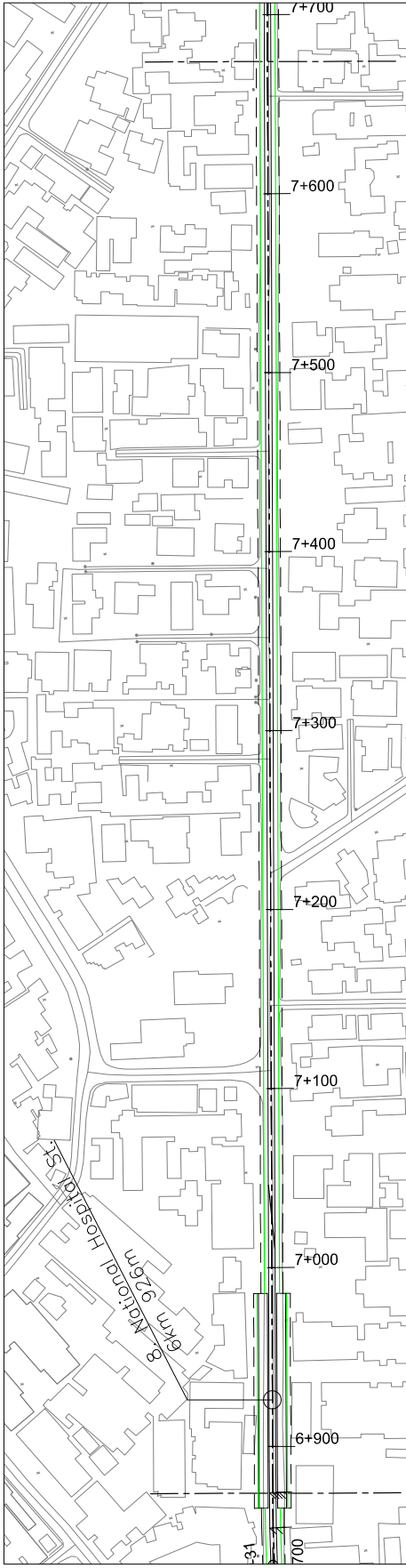
VERSIONS	DATE	DESCRIPTION

CONSULTANT		DATE
		12/18/2017
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DESIGNER	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SHEET No.
TEAM LEADER	ENVIRONMENTAL MANAGEMENT TEAM	DRG No.
PR. MANAGER	ENVIRONMENTAL MANAGEMENT TEAM	DRG S.

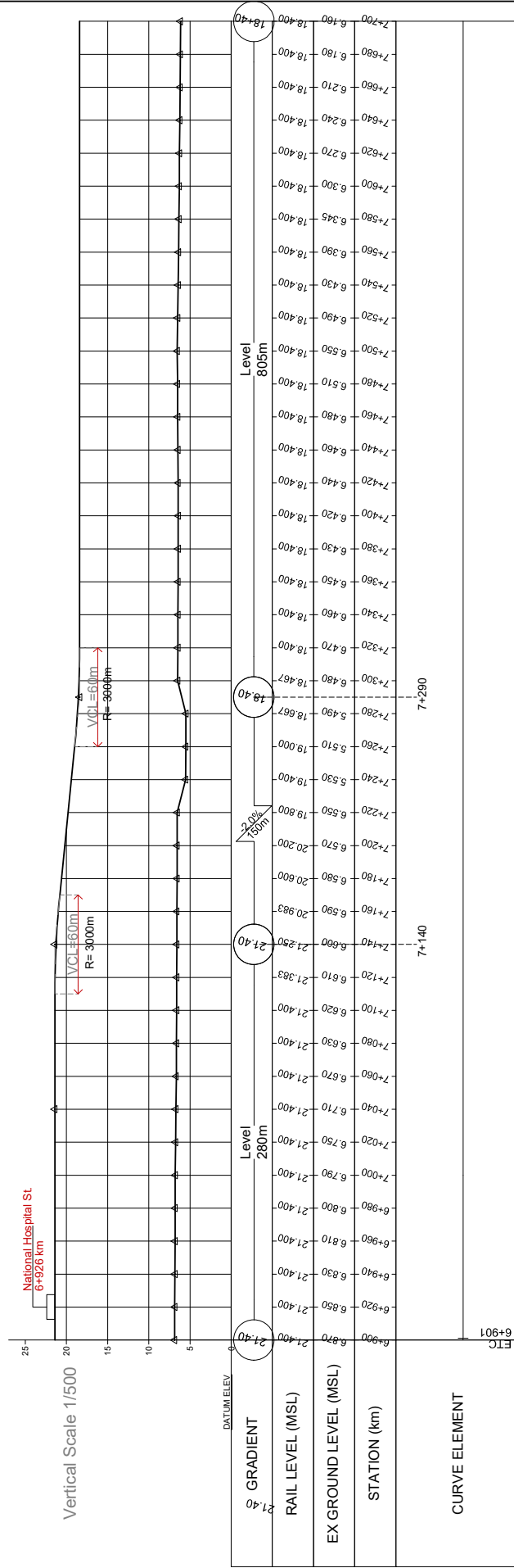
FEASIBILITY STUDY	
TRACK ALIGNMENT	6+100km ~ 6+900km

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Horizontal Scale 1/2500



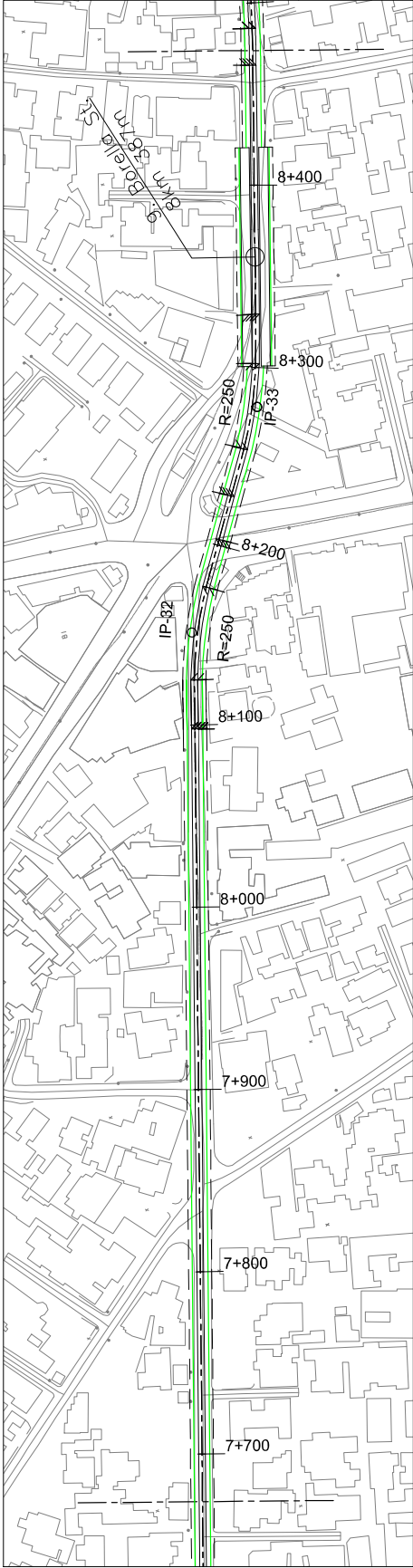
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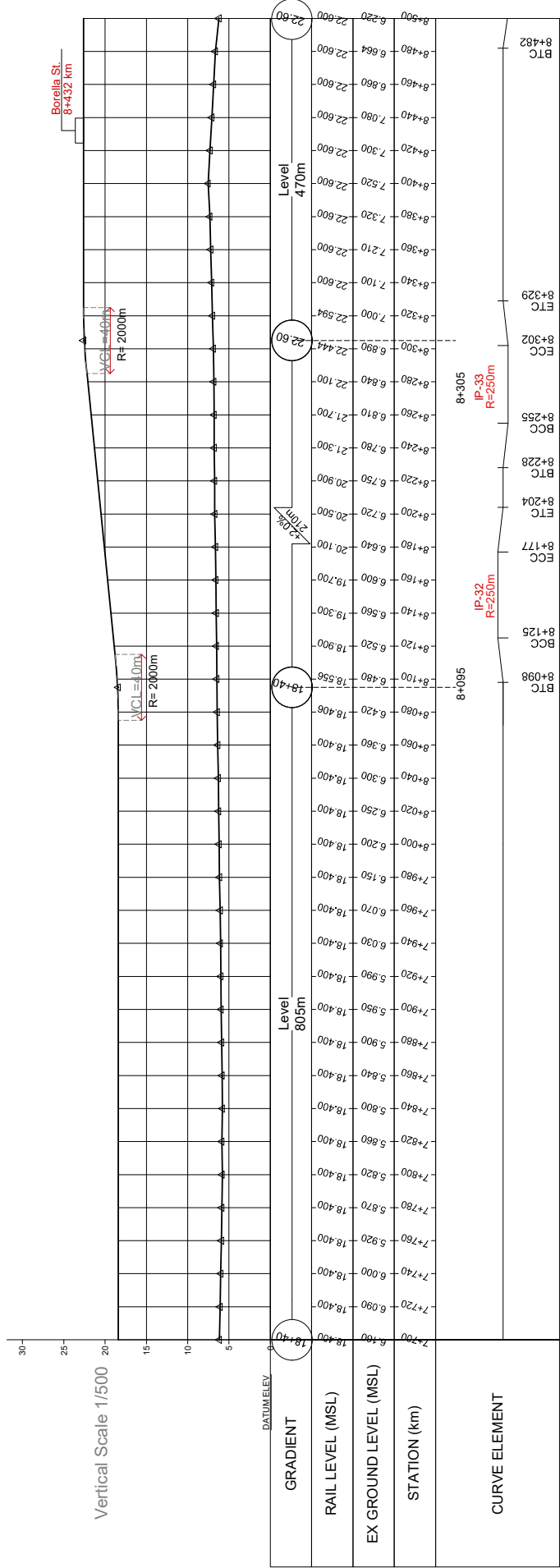
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			<p>ORIENTAL CONSULTANTS GLOBAL CO., LTD. DESIGNER</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) CONSULTANT</p> <p>TONICHI ENGINEERING CONSULTANTS INC. ENVIRONMENTAL MANAGEMENT ERM PR. MANAGER</p>				ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	
			<p>TITLE: FEASIBILITY STUDY</p> <p>DESIGNER: JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</p> <p>TEAM LEADER: TONICHI ENGINEERING CONSULTANTS INC.</p> <p>PR. MANAGER: ERM</p>				TRACK ALIGNMENT 6+900km ~ 7.700km	
			<p>SHEET No.:</p> <p>DRG No.:</p> <p>DRG S.:</p>				FEASIBILITY STUDY	
			<p>NAME: _____</p> <p>SIGNATURE: _____</p>					

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Horizontal Scale 1/2500

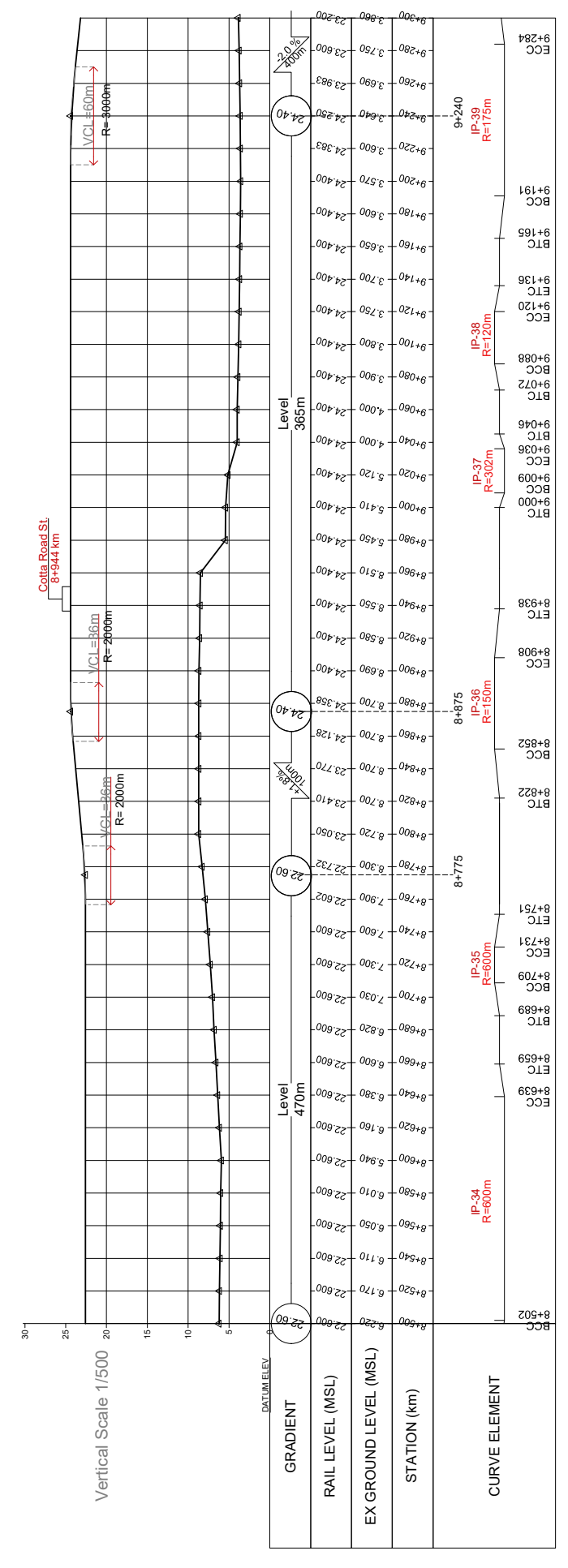
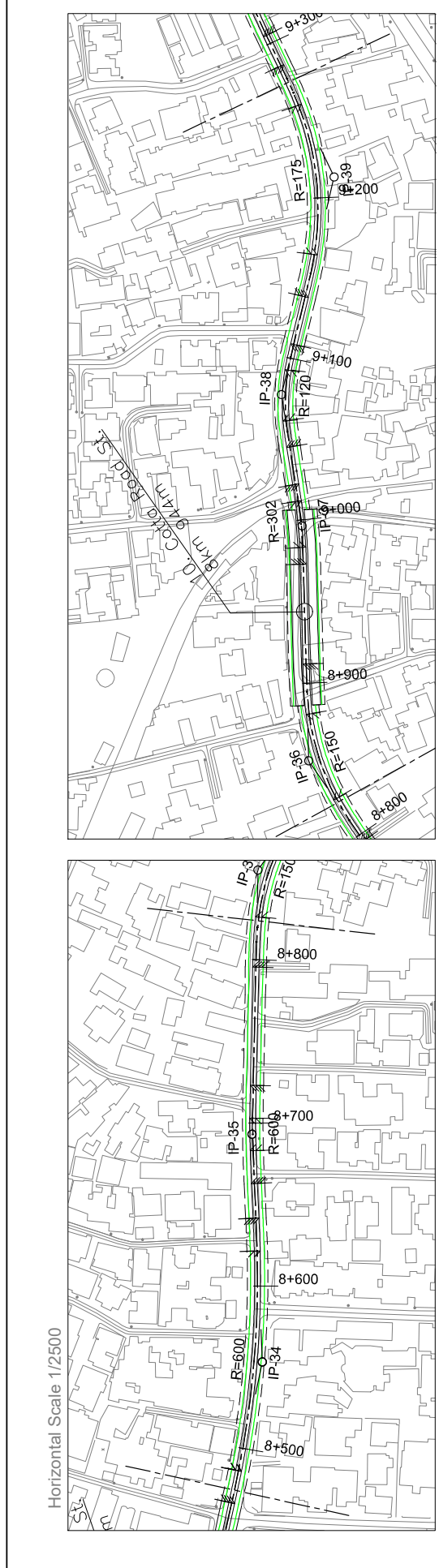


Vertical Scale 1/500



VERSIONS	DATE	DESCRIPTION	CONSULTANT		DATE	SCALE
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			DESIGNER: JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) TEAM LEADER: TONICHI ENGINEERING CONSULTANTS INC PR. MANAGER: JAPAN LTD.			FEASIBILITY STUDY
			TRACK ALIGNMENT 7+700Km 8+500Km			

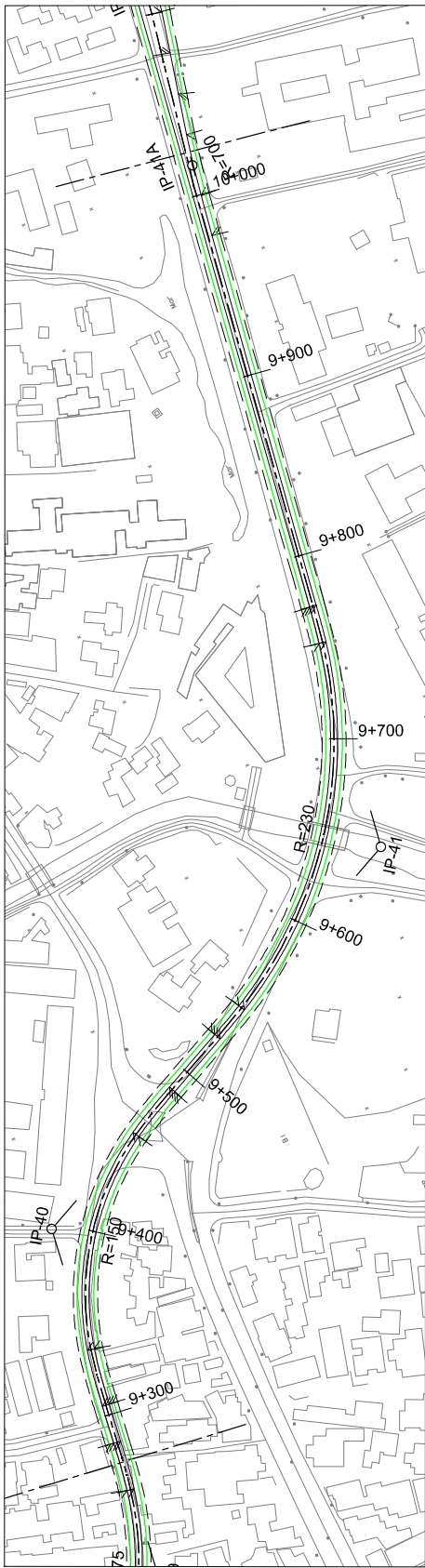
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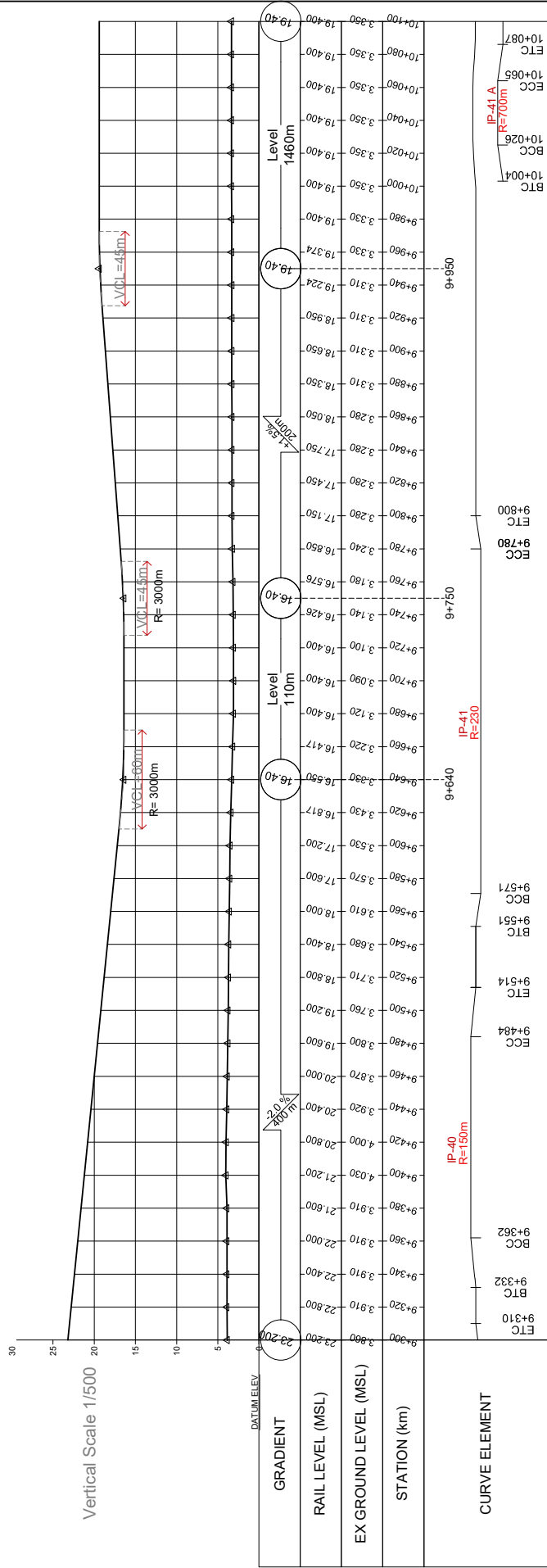
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							DESIGNER CHECKER TEAM LEADER PR. MANAGER	12/18/2017
			ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO				FEASIBILITY STUDY	SCALE
			TRACK ALIGNMENT 8+500km ~9+300km					

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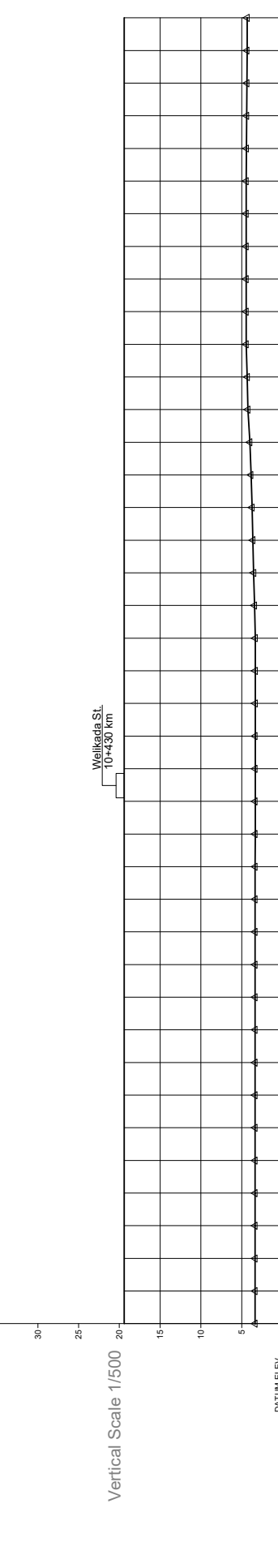
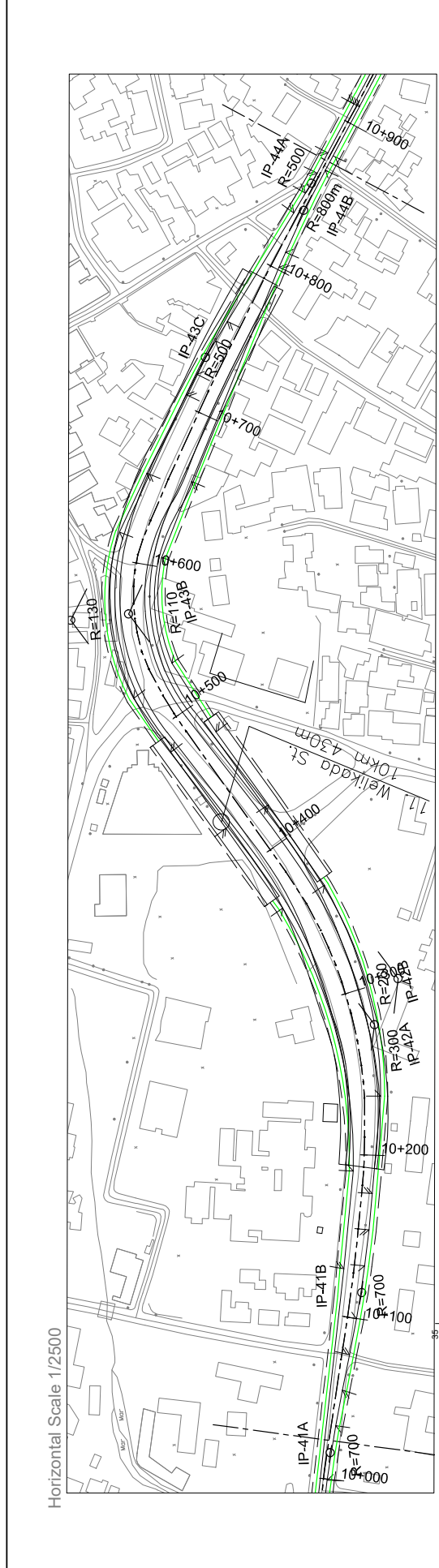
Horizontal Scale 1/2500



Vertical Scale 1/500



VERSIONS	DATE	DESCRIPTION	CONSULTANT			
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			ORIENTAL CONSULTANTS GLOBAL CO., LTD.			FEASIBILITY STUDY
			TONICHI ENGINEERING CONSULTANTS INC			TRACK ALIGNMENT
			ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.			9+300Km ~ 10+100Km
						SHEET No.
						DRG No.
						DRG S.
						XT



STATION	EX GROUND LEVEL (MSL)	RAIL LEVEL (MSL)	GRADIENT
10+004	3.350	3.350	
10+100	3.350	3.350	
10+126	3.350	3.350	
10+128	3.350	3.350	
10+140	3.350	3.350	
10+157	3.350	3.350	
10+160	3.350	3.350	
10+179	3.350	3.350	
10+203	3.350	3.350	
10+216	3.350	3.350	
10+263	3.350	3.350	
10+280	3.350	3.350	
10+300	3.350	3.350	
10+320	3.350	3.350	
10+340	3.350	3.350	
10+360	3.350	3.350	
10+384	3.350	3.350	
10+400	3.340	3.340	
10+420	3.340	3.340	
10+440	3.340	3.340	
10+460	3.340	3.340	
10+480	3.320	3.320	
10+505	3.320	3.320	
10+511	3.320	3.320	
10+555	3.520	3.520	
10+580	3.520	3.520	
10+600	3.620	3.620	
10+624	3.850	3.850	
10+640	3.980	3.980	
10+674	4.230	4.230	
10+690	4.310	4.310	
10+700	4.440	4.440	
10+733	4.440	4.440	
10+741	4.440	4.440	
10+760	4.440	4.440	
10+785	4.440	4.440	
10+799	4.440	4.440	
10+828	4.410	4.410	
10+838	4.380	4.380	
10+862	4.360	4.360	
10+876	4.340	4.340	
10+897	4.320	4.320	
10+900	4.320	4.320	

VERSIONS	DATE	DESCRIPTION

CONSULTANT	CONTRACTOR	DATE
		12/18/2017

DESIGNER	TEAM LEADER	PR. MANAGER
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	TONICHI ENGINEERING CONSULTANTS INC	ERM JAPAN LTD.

TITLE	NAME	SIGNATURE
DESIGNER		
TEAM LEADER		
PR. MANAGER		

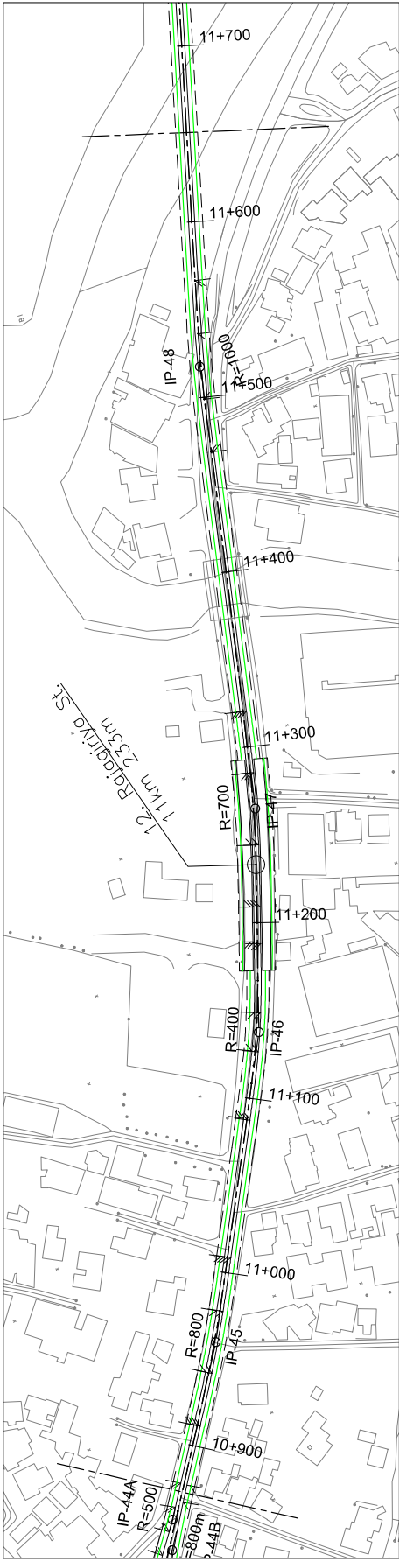
SCALE	DATE
SCALE	12/18/2017

FEASIBILITY STUDY	TRACK ALIGNMENT
FEASIBILITY STUDY	10+100km ~ 10+900km

SHEET No.	DRG No.	DRG S.

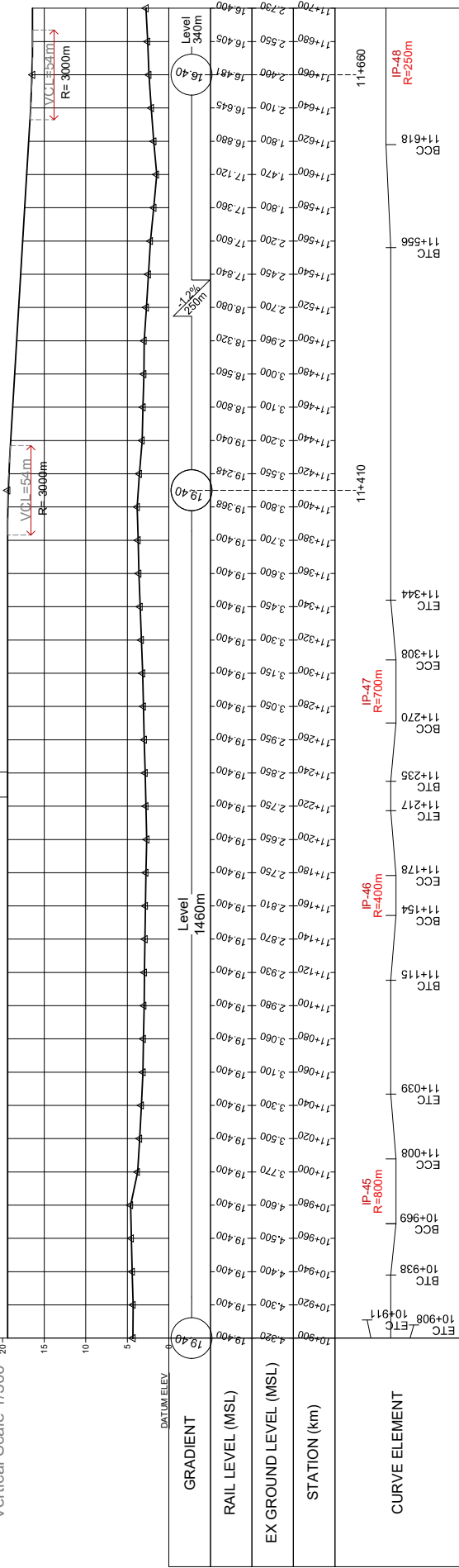
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Horizontal Scale 1/2500



Rajadivya St.
11+233 km

Vertical Scale 1/500



DATE	12/18/2017
SCALE	
ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	
TITLE	FEASIBILITY STUDY
DESIGNER	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
CHECKER	ORIENTAL CONSULTANTS GLOBAL CO., LTD.
TEAM LEADER	TONICHI ENGINEERING CONSULTANTS INC
PR. MANAGER	ENVIRONMENTAL ERM MANAGEMENT ERM JAPAN LTD.
TRACK ALIGNMENT 10+900Km ~ 11+700Km	



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



ORIENTAL CONSULTANTS GLOBAL CO., LTD.

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

ENVIRONMENTAL ERM MANAGEMENT ERM JAPAN LTD.

TONICHI ENGINEERING CONSULTANTS INC

FEASIBILITY STUDY

TRACK ALIGNMENT
10+900Km ~ 11+700Km

VERSIONS

DATE

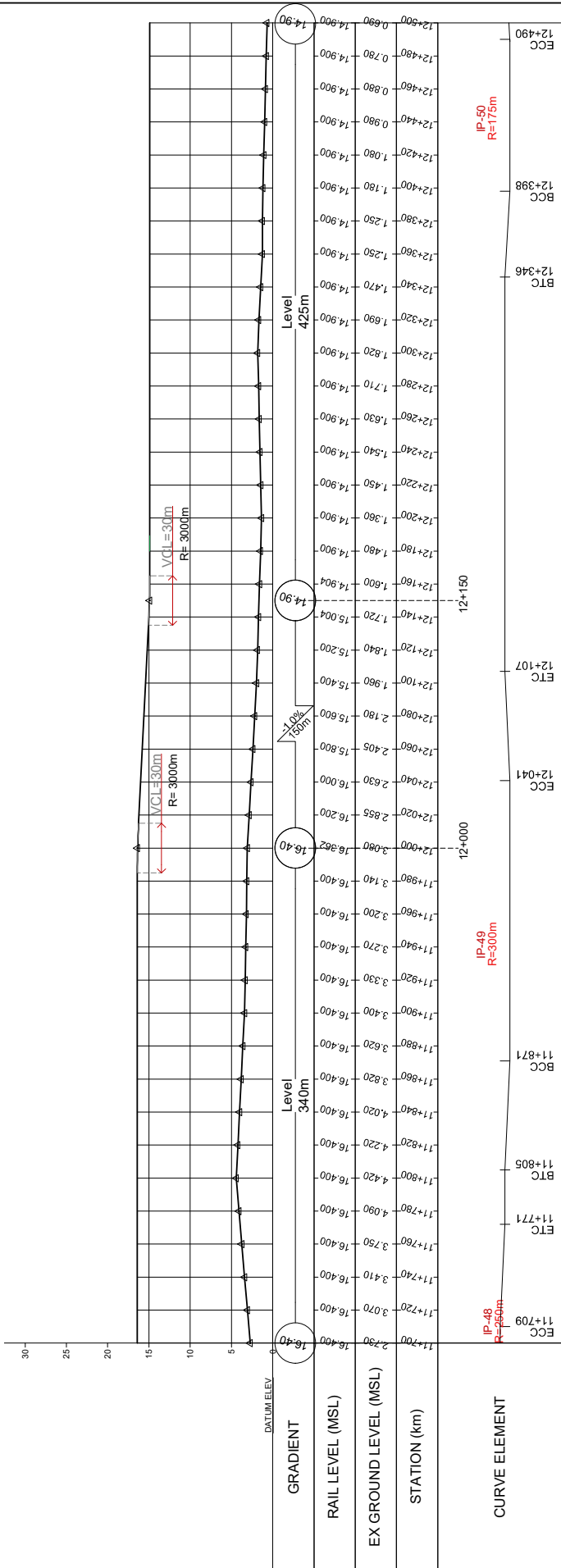
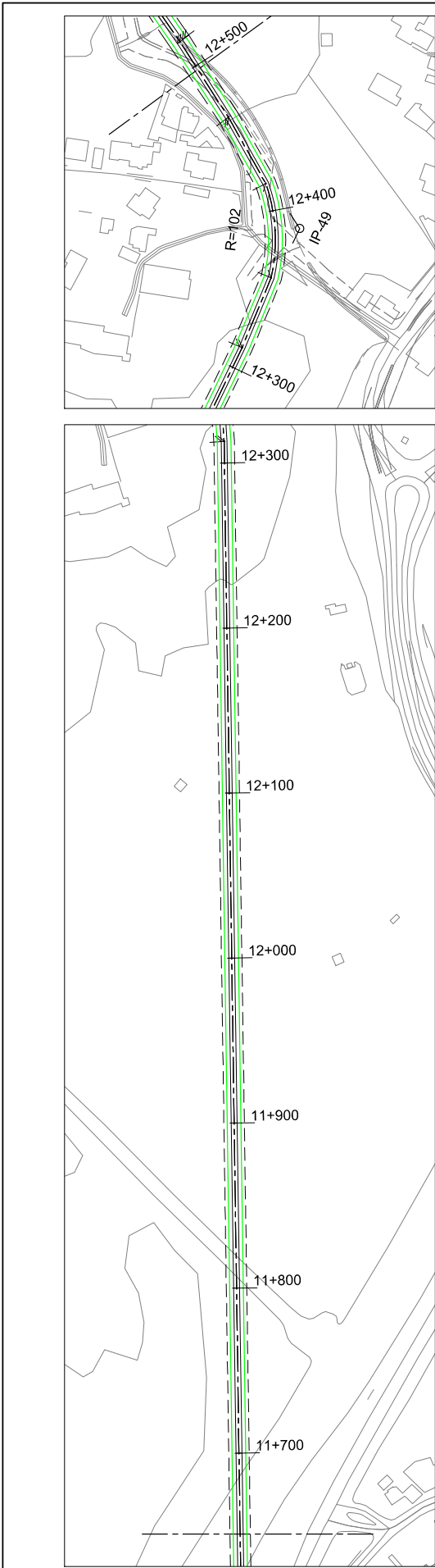
DESCRIPTION

REVISIONS

DATE

DESCRIPTION

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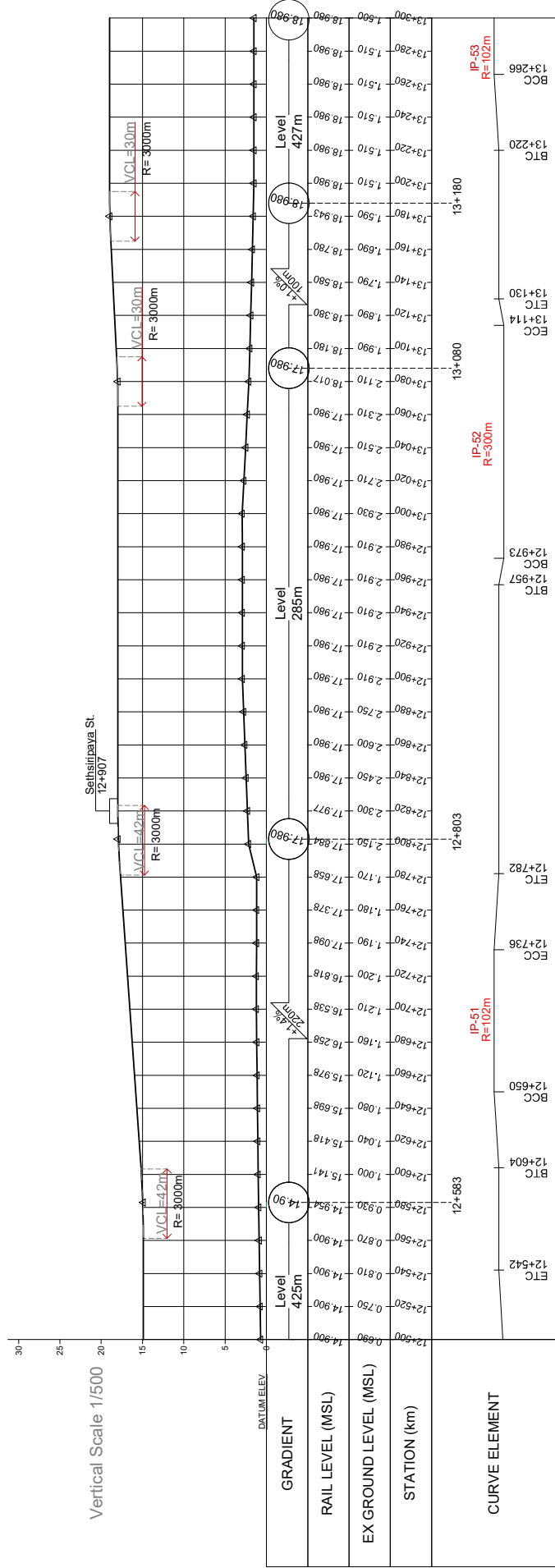
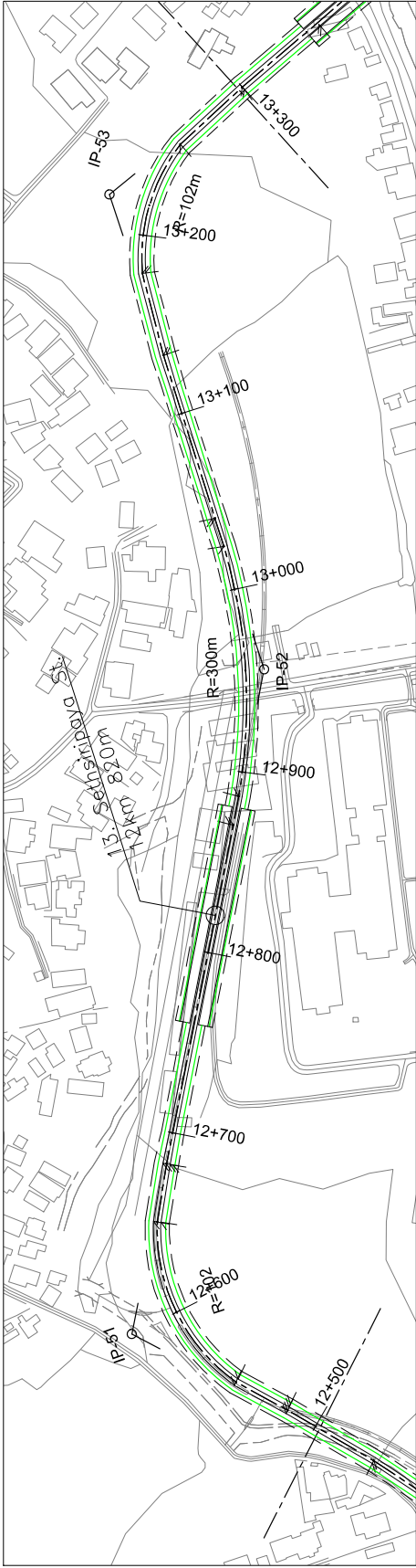


VERSIONS	DATE	DESCRIPTION

CONSULTANT		DATE	SCALE
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ORIENTAL CONSULTANTS GLOBAL CO., LTD.		FEASIBILITY STUDY	
TONICHI ENGINEERING CONSULTANTS INC.		TRACK ALIGNMENT 11+700km ~ 12+500km	
TITLE	DESIGNER	SIGNATURE	SHEET No.
	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		DRG No.
	ORIENTAL CONSULTANTS GLOBAL CO., LTD.		DRG S.
	TONICHI ENGINEERING CONSULTANTS INC.		XT
	ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.		
	PR. MANAGER		
	TEAM LEADER		
	PR. MANAGER		

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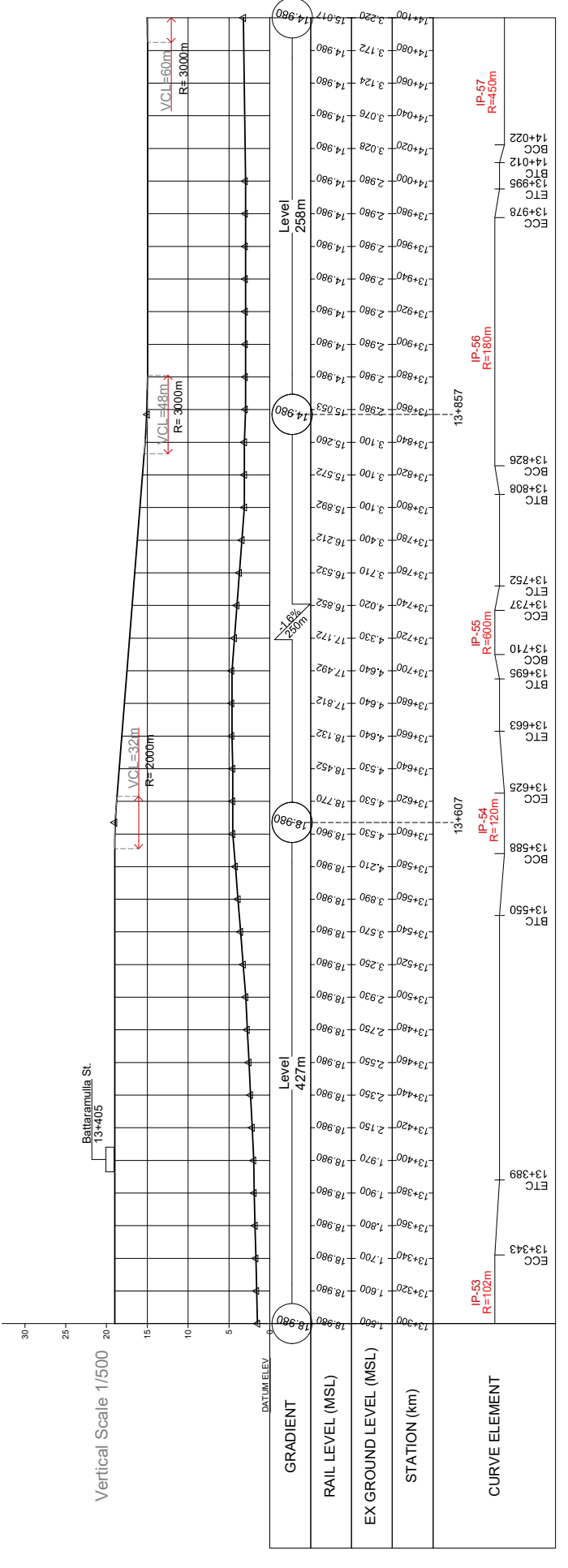
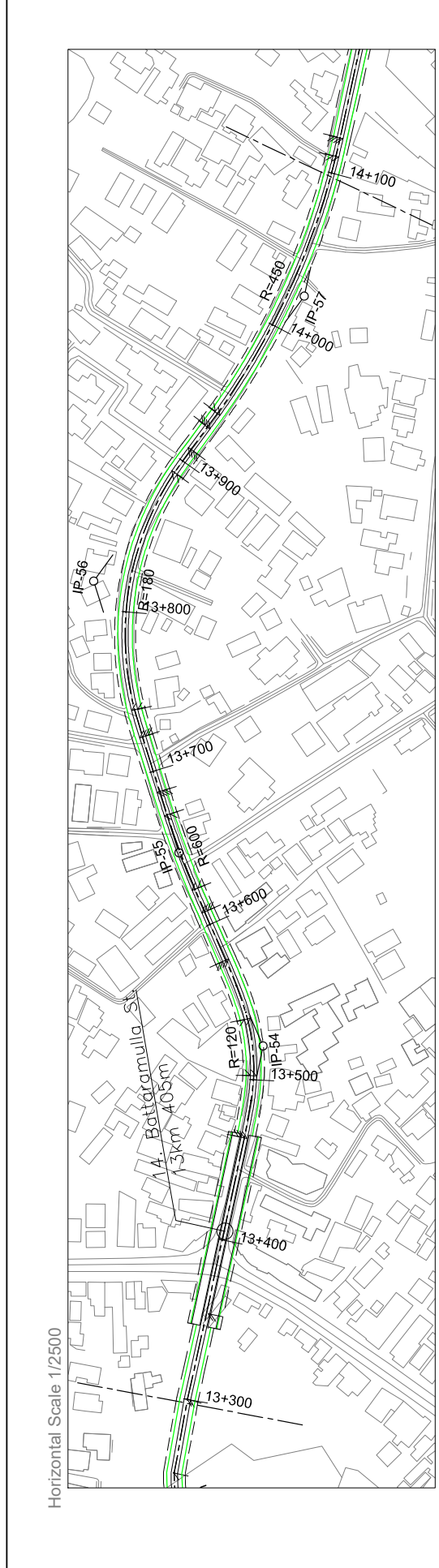
Horizontal Scale 1/2500



Vertical Scale 1/500

VERSIONS	DATE	DESCRIPTION	CONSULTANT			
			TITLE	NAME	SIGNATURE	DATE
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			ORIENTAL CONSULTANTS GLOBAL CO., LTD.			
			TONICHI ENGINEERING CONSULTANTS INC	FEASIBILITY STUDY		SHEET No.
			ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.	TRACK ALIGNMENT		DRG No.
				12+500Km ~ 13+300Km		DRG S.
						XT

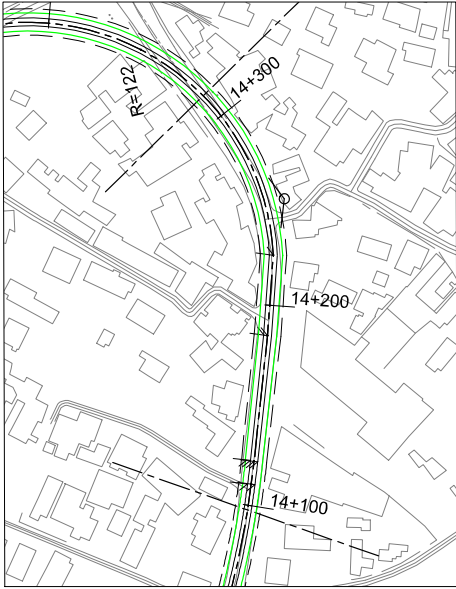
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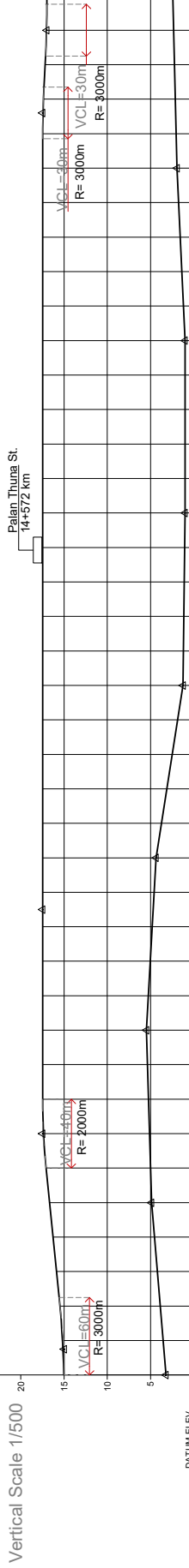
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				CHECKER				
				TEAM LEADER				
				PR. MANAGER				
			JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		FEASIBILITY STUDY			
			JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		TRACK ALIGNMENT			
					13+300km ~ 14+100km			

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Horizontal Scale 1/2500



Vertical Scale 1/500



STATION	EX GROUND LEVEL (MSL)	RAIL LEVEL (MSL)	GRADIENT
14+100	3.220	15.017	
14+115	3.552	14.980	
14+120	3.884	15.184	
14+140	3.894	15.494	
14+160	4.216	15.880	
14+180	4.548	16.280	
14+200	4.880	16.680	
14+220	4.998	17.080	
14+240	5.176	17.380	
14+260	5.234	17.480	
14+272	5.352	17.480	
14+300	5.470	17.480	
14+312	5.248	17.480	
14+320	5.248	17.480	
14+340	5.026	17.480	
14+360	4.804	17.480	
14+380	4.582	17.480	
14+400	4.360	17.480	
14+420	3.734	17.480	
14+440	3.108	17.480	
14+460	2.482	17.480	
14+480	1.856	17.480	
14+500	1.230	17.480	
14+520	1.184	17.480	
14+540	1.138	17.480	
14+560	1.092	17.480	
14+580	1.046	17.480	
14+600	1.000	17.480	
14+606	1.000	17.480	
14+634	1.000	17.480	
14+671	1.000	17.480	
14+700	1.000	17.480	
14+720	1.000	17.480	
14+740	1.000	17.480	
14+760	1.000	17.480	
14+780	1.000	17.480	
14+800	1.000	17.480	
14+820	1.000	17.480	
14+840	1.000	17.480	
14+860	1.000	17.480	
14+880	1.000	17.480	
14+900	1.000	17.480	

DATE 12/18/2017
SCALE
ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO
FEASIBILITY STUDY
TRACK ALIGNMENT
14+100km ~ 14+900km

VERSIONS	DATE	DESCRIPTION	TITLE	NAME	SIGNATURE
			DESIGNER		
			TEAM LEADER		
			PR. MANAGER		

CONSULTANT

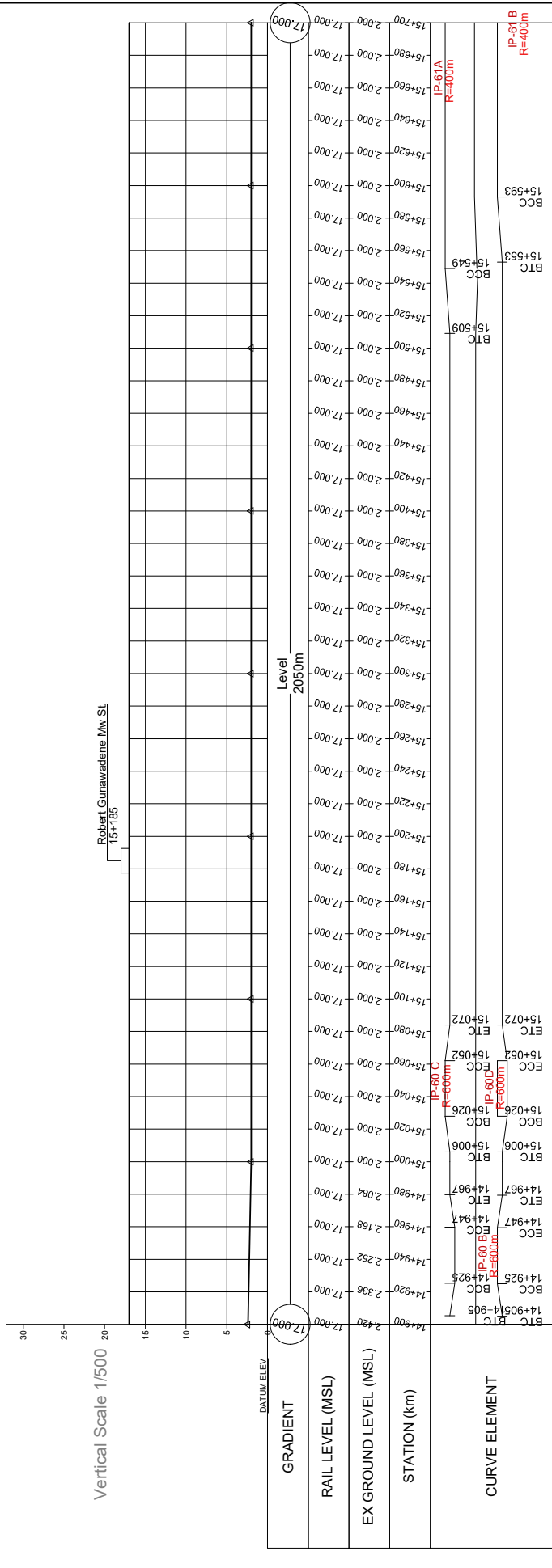
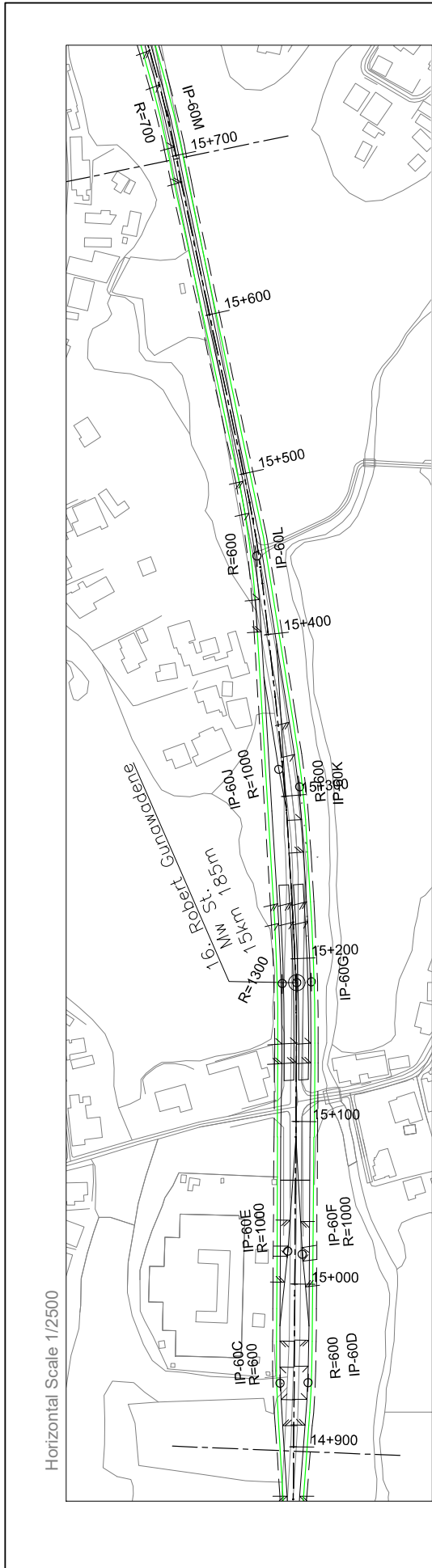
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

ORIENTAL CONSULTANTS GLOBAL CO.,LTD
JICA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.

DESIGNER: JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
TEAM LEADER: TONICHI ENGINEERING CONSULTANTS INC
PR. MANAGER: ERM JAPAN LTD.

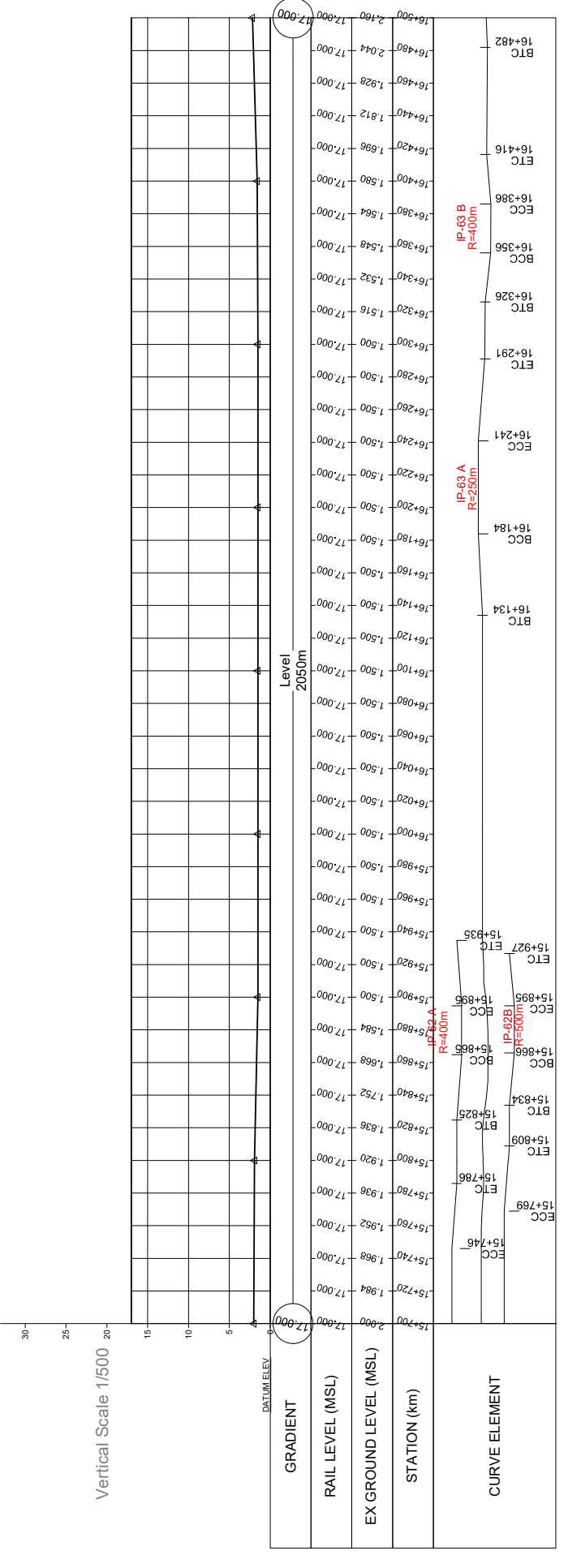
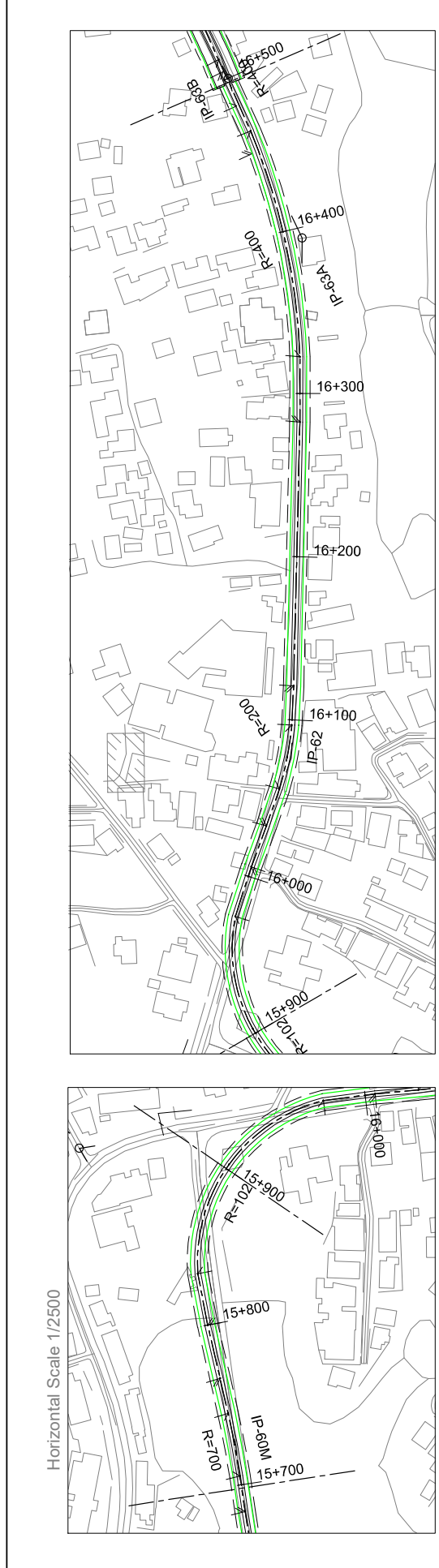
SHEET No.
DRG No.
DRG S.
REV
XT

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VERSIONS	DATE	DESCRIPTION	CONSULTANT				DATE	SCALE
							12/18/2017	SCALE
			<p>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</p> <p>TONICHI ENGINEERING CONSULTANTS INC</p> <p>ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.</p>					
			TITLE	NAME	SIGNATURE	ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO		
			DESIGNER			FEASIBILITY STUDY		
			TEAM LEADER			TRACK ALIGNMENT		
			PR. MANAGER			14+900km ~ 15+700km		
							SHEET No.	
							DRG No.	
							DRG S.	
								REV
								XT

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VERSIONS	DATE	DESCRIPTION

CONSULTANT		
TITLE	NAME	SIGNATURE
DESIGNER		
TEAM LEADER		
PR. MANAGER		

DATE	SCALE	DATE
12/18/2017	12/18/2017	12/18/2017

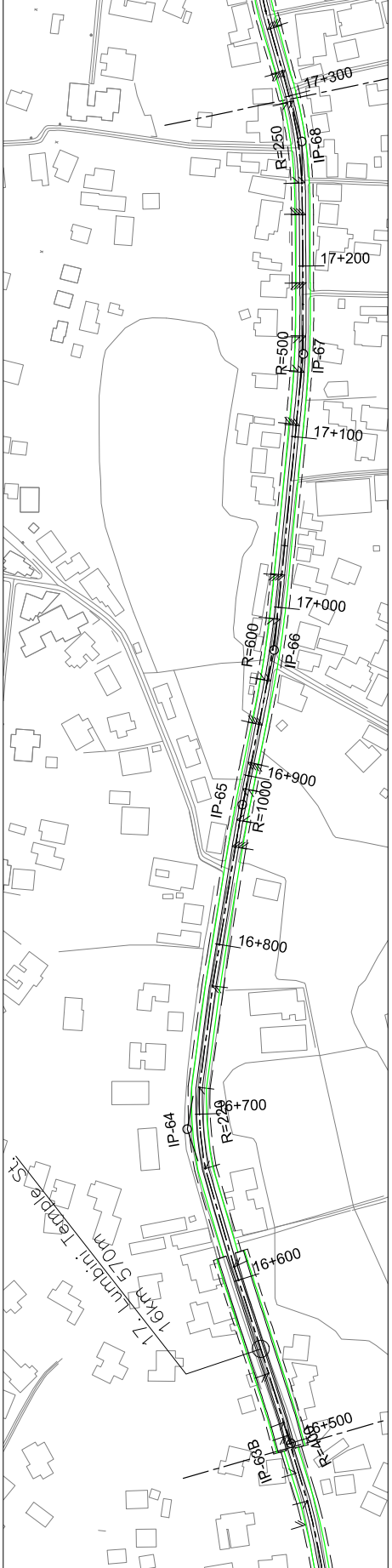
ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO			
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		ORIENTAL CONSULTANTS GLOBAL CO.,LTD	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		ENVIRONMENTAL ENGINEERING CONSULTANTS INC	
JICA		E&M MANAGEMENT ERM JAPAN LTD.	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		TONICHI ENGINEERING CONSULTANTS INC	

FEASIBILITY STUDY			
TRACK ALIGNMENT			
15+700km ~ 16+500Km			
SHEET No.	DRG No.	DRG S.	XY

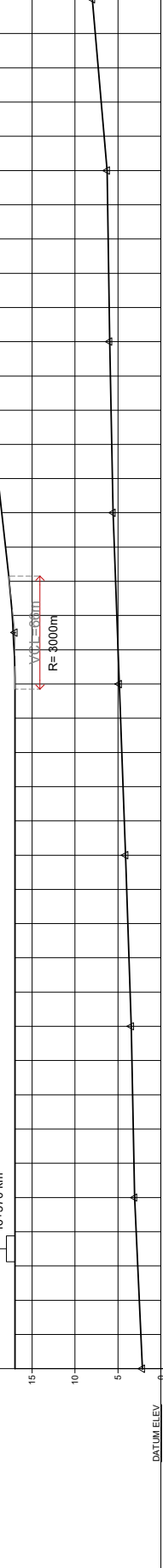
Appendix 4-16

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Horizontal Scale 1/2500



Vertical Scale 1/500



STATION	RAIL LEVEL (MSL)	EX GROUND LEVEL (MSL)	CURVE ELEMENT
16+500	2.400	2.338	
16+520	2.516	2.694	
16+542	2.516	2.694	IP-64 R=220m
16+560	2.694	2.694	
16+580	2.872	2.872	
16+600	3.050	3.050	
16+620	3.130	3.130	
16+640	3.210	3.210	
16+650	3.210	3.210	
16+680	3.370	3.370	
16+700	3.450	3.450	
16+720	3.582	3.582	
16+732	3.714	3.714	
16+748	3.846	3.846	IP-65 R=1000m
16+767	3.978	3.978	
16+783	4.110	4.110	
16+800	4.110	4.110	
16+820	4.256	4.256	
16+840	4.402	4.402	
16+860	4.548	4.548	IP-66 R=600m
16+871	4.694	4.694	
16+880	4.840	4.840	
16+897	4.986	4.986	
16+900	5.132	5.132	
16+920	5.278	5.278	
16+940	5.424	5.424	
16+960	5.570	5.570	
16+981	5.716	5.716	
17+000	5.862	5.862	
17+020	6.008	6.008	IP-67 R=500m
17+033	6.154	6.154	
17+040	6.300	6.300	
17+065	6.446	6.446	
17+088	6.592	6.592	
17+090	6.738	6.738	
17+100	6.884	6.884	
17+120	7.030	7.030	
17+123	7.176	7.176	
17+140	7.322	7.322	IP-68 R=250m
17+160	7.468	7.468	
17+175	7.614	7.614	
17+193	7.760	7.760	
17+200	7.906	7.906	
17+220	8.052	8.052	
17+240	8.198	8.198	
17+260	8.344	8.344	IP-69 R=102m
17+280	8.490	8.490	
17+300	8.636	8.636	
17+303	8.782	8.782	

VERSIONS	DATE	DESCRIPTION

CONSULTANT	TITLE	NAME	SIGNATURE
<p>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</p>	DESIGNER		
	TEAM LEADER		
	PR. MANAGER		

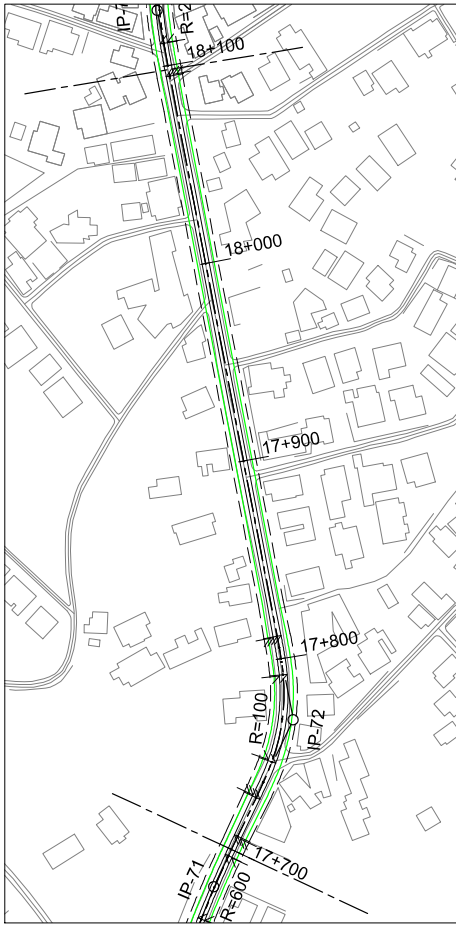
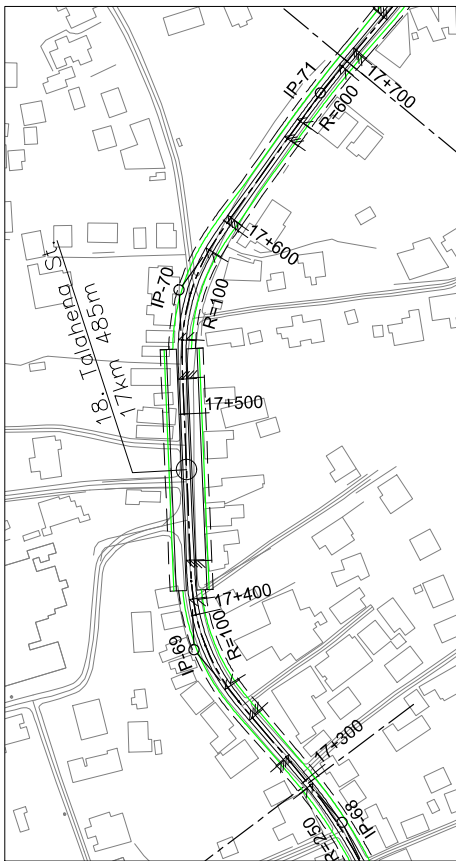
DATE	SCALE
12/18/2017	SCALE

SHEET No.	DRG No.	DRG S.	REV
			1

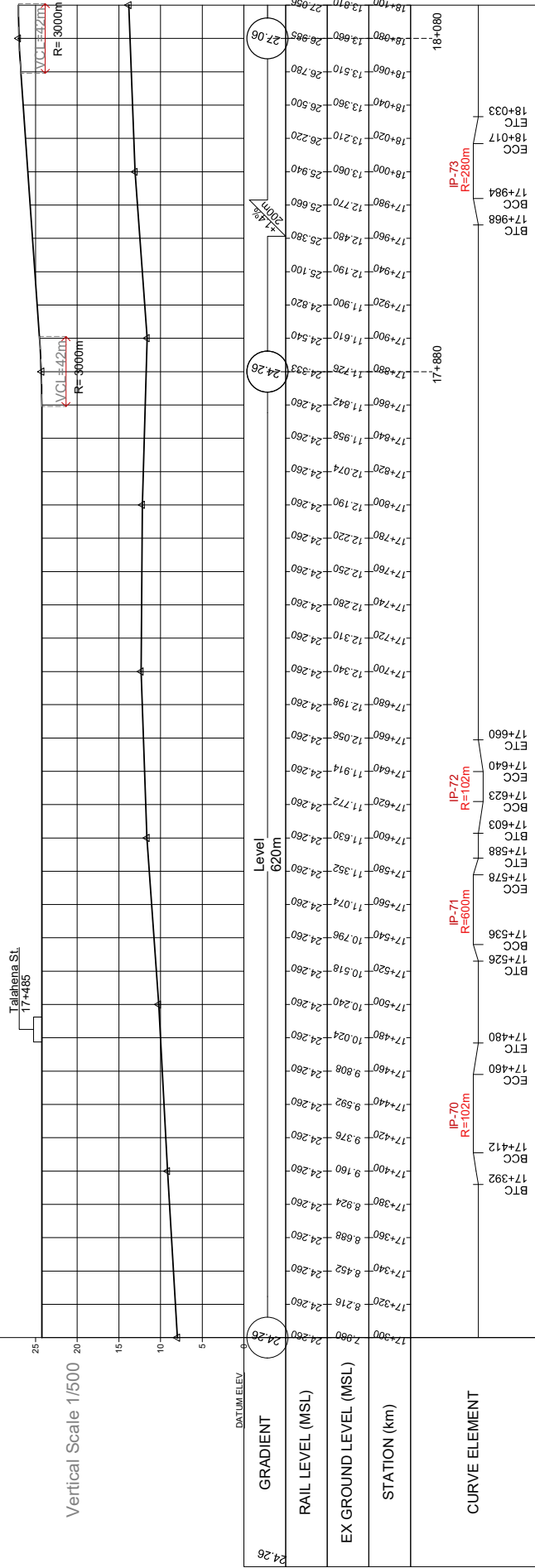
ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO
FEASIBILITY STUDY
TRACK ALIGNMENT
16+500km ~ 17+300

Last modified by Admin 12/18/2017 8:43:16 AM
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Horizontal Scale 1/2500



Vertical Scale 1/500



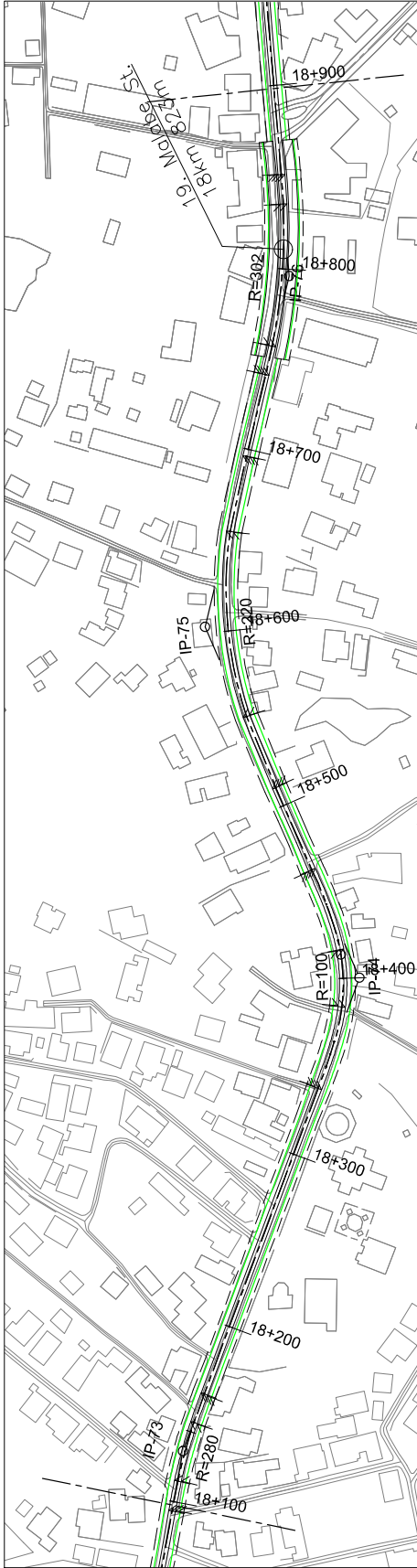
VERSIONS	DATE	DESCRIPTION

CONSULTANT		DATE
		12/18/2017
TITLE	ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	SCALE
DESIGNER	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SHEET No.
TEAM LEADER	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	DRG No.
PR. MANAGER	TONICHI ENGINEERING CONSULTANTS INC	DRG S.

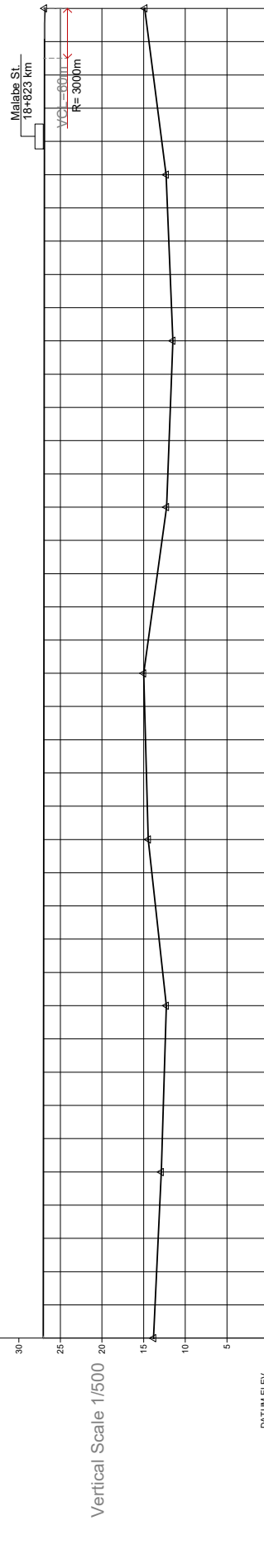
FEASIBILITY STUDY	
TRACK ALIGNMENT	
17+300km ~ 18+100km	

Last modified by Admin 12/18/2017 8:43:16 AM
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Horizontal Scale 1/2500



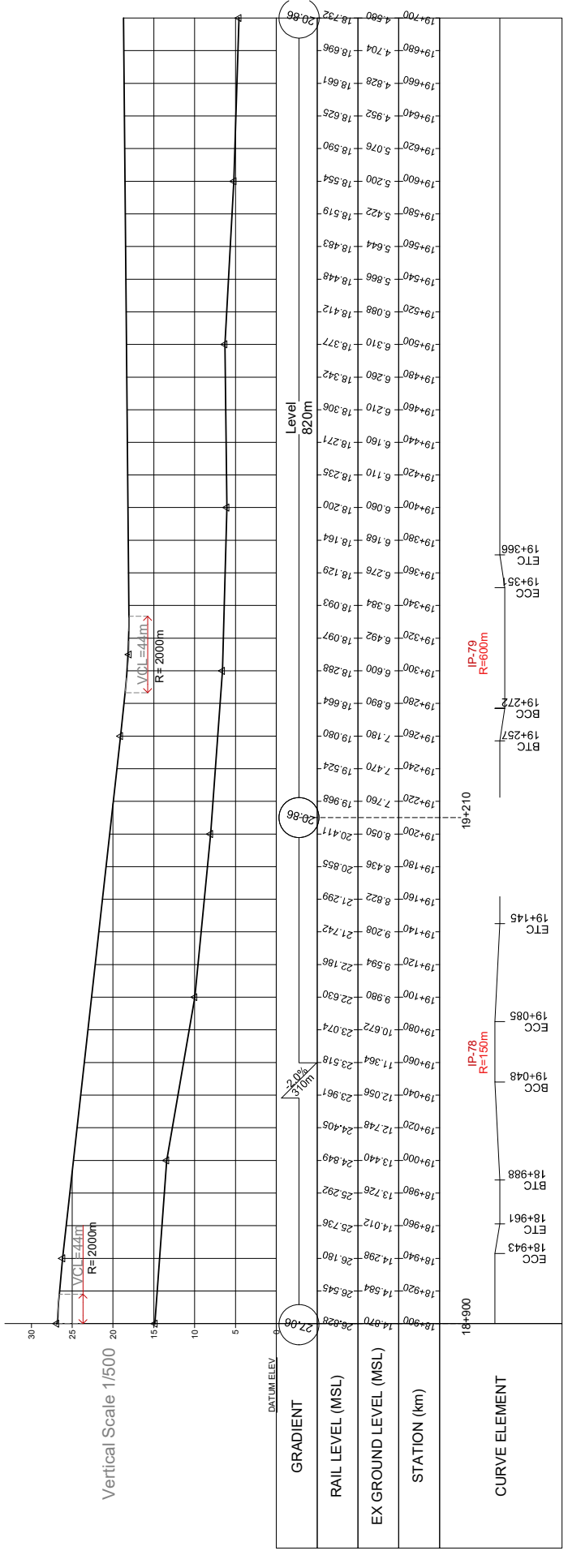
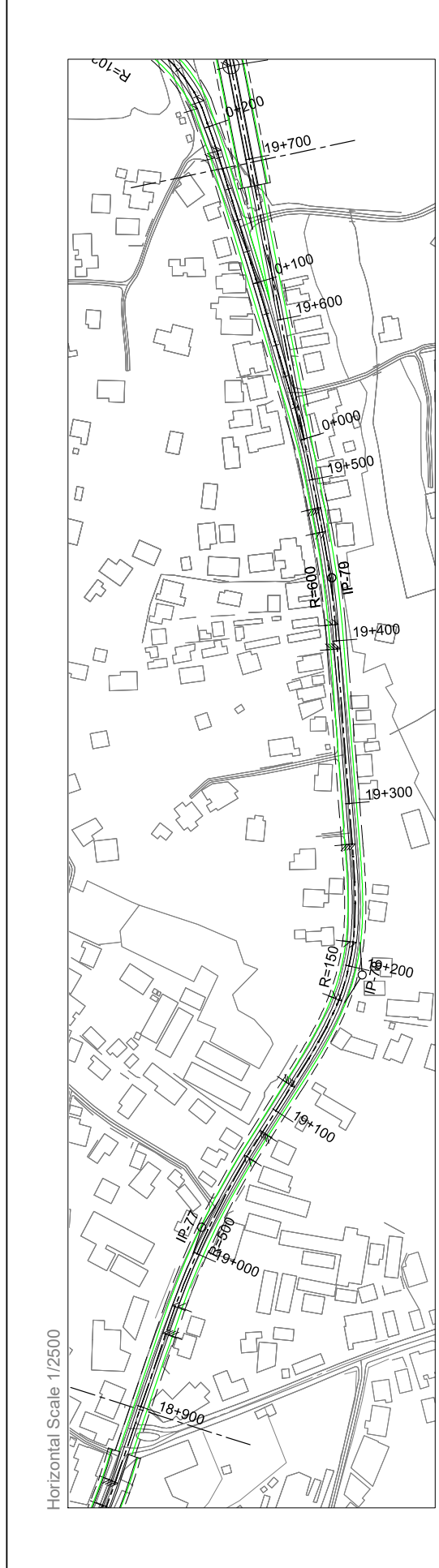
Vertical Scale 1/500



STATION	EX GROUND LEVEL (MSL)	RAIL LEVEL (MSL)	GRADIENT	Level
18+100	13.810	27.038	27.06	820m
18+120	13.826	27.053		
18+140	13.442	27.049		
18+160	13.258	27.045		
18+180	13.074	27.042		
18+200	12.890	27.038		
18+220	12.706	27.034		
18+240	12.522	27.031		
18+260	12.338	27.027		
18+280	12.154	27.023		
18+300	11.970	27.020		
18+320	11.786	27.016		
18+340	11.602	27.012		
18+360	11.418	27.008		
18+380	11.234	27.005		
18+400	11.050	27.001		
18+420	10.866	26.998		
18+440	10.682	26.994		
18+460	10.498	26.990		
18+480	10.314	26.987		
18+500	10.130	26.983		
18+520	9.946	26.980		
18+540	9.762	26.976		
18+560	9.578	26.972		
18+580	9.394	26.969		
18+600	9.210	26.965		
18+620	9.026	26.961		
18+640	8.842	26.958		
18+660	8.658	26.954		
18+680	8.474	26.950		
18+700	8.290	26.947		
18+720	8.106	26.943		
18+740	7.922	26.939		
18+760	7.738	26.936		
18+780	7.554	26.932		
18+800	7.370	26.928		
18+820	7.186	26.925		
18+840	7.002	26.921		
18+860	6.818	26.917		
18+880	6.634	26.914		
18+900	6.450	26.910		

DATE	12/18/2017
SCALE	ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO
SHEET No.	FEASIBILITY STUDY
DRG No.	TRACK ALIGNMENT
DRG S.	18+100Km ~ 18+900Km
CONSULTANT	
TITLE	DESIGNER
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	JAPAN INTERNATIONAL CONSULTANTS GROUP CORPORATION
ORIENTAL CONSULTANTS GLOBAL CO.,LTD	TRANSPORTATION CO.,LTD/CHECK
TONICHI ENGINEERING CONSULTANTS INC	ENVIRONMENTAL MANAGEMENT ERM
PR. MANAGER	JAPAN LTD.
DATE	DESCRIPTION
VERSIONS	

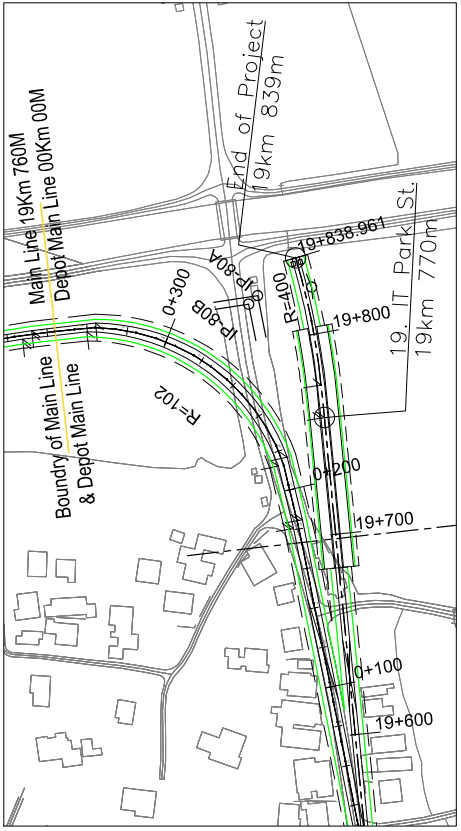
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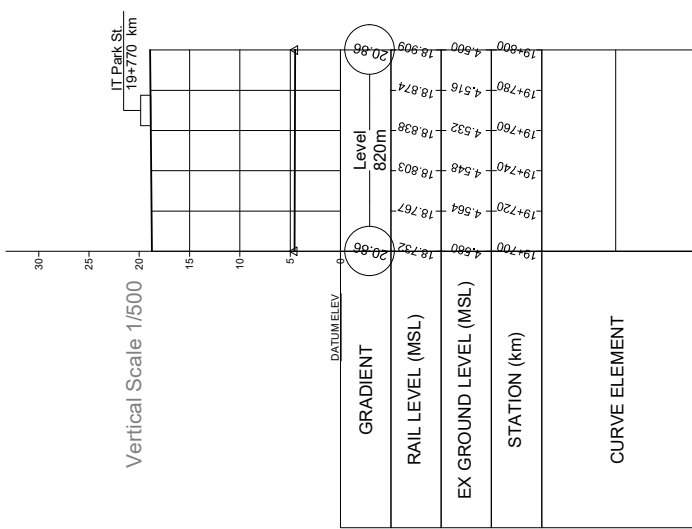
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							TITLE	FEASIBILITY STUDY
							DESIGNER	
							NAME	
							SIGNATURE	
							SHEET No.	
							DRG No.	
							DRG S.	
							REV	
							XT	

Last modified by Admin 12/18/2017 8:43:16 AM
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Horizontal Scale 1/2500

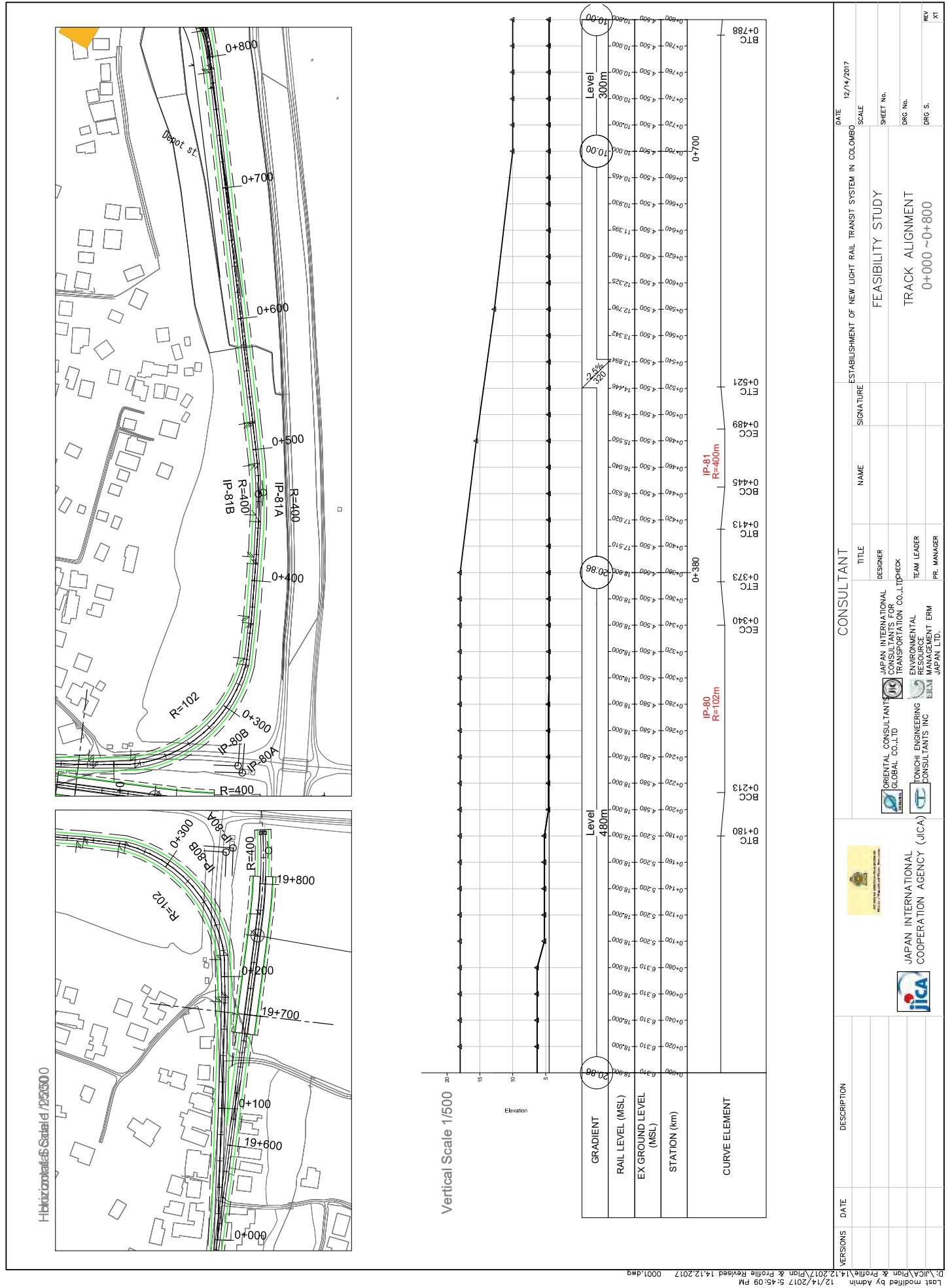


Vertical Scale 1/500



VERSIONS	DATE	DESCRIPTION					CONSULTANT JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO DATE 12/18/2017 SCALE
			ORIENTAL CONSULTANTS GLOBAL CO.,LTD. TONICHI ENGINEERING CONSULTANTS INC	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.	DESIGNER TEAM LEADER PR. MANAGER	SIGNATURE NAME	FEASIBILITY STUDY TRACK ALIGNMENT 19+700 ~ 19+800	SHEET No. DRG No. DRG S.	REV XT





Last modified by Admin 12/18/2017 8:43:16 AM
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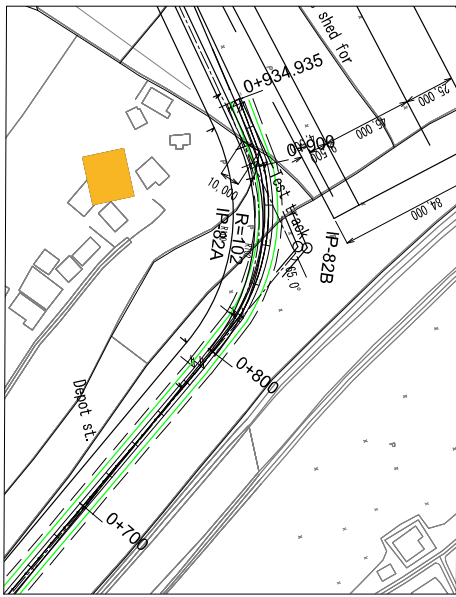
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Appendix 4-22

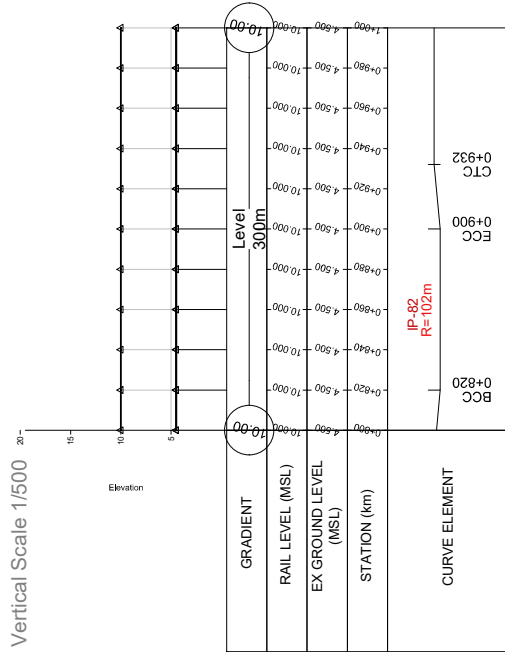
VERSIONS	DATE	DESCRIPTION

 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		 ORIENTAL CONSULTANTS JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) MEMBER	
 TONICHI ENGINEERING CONSULTANTS INC		 ENVIRONMENTAL MANAGEMENT ERM JAPAN LTD.	
TITLE DESIGNER TEAM LEADER PR. MANAGER		NAME SIGNATURE	
DATE 12/14/2017		SCALE ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	
SHEET No. DRG No. DRG S.		FEASIBILITY STUDY TRACK ALIGNMENT 0+000 ~0+800	

Horizontal Scale 1/2500



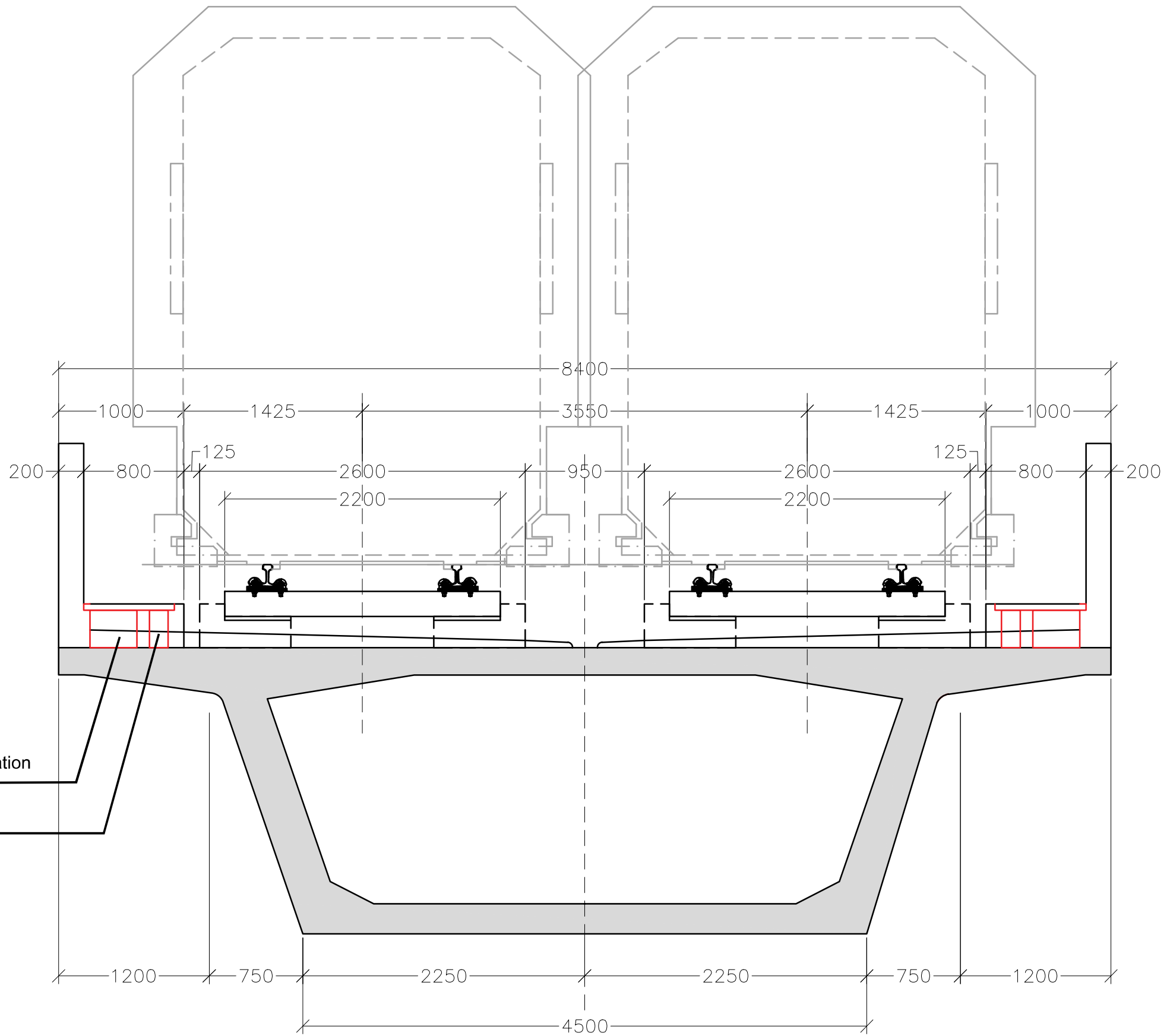
Vertical Scale 1/500



VERSIONS	DATE	DESCRIPTION					DATE	12/14/2017
							SCALE	
							TITLE	ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO
							DESIGNER	FEASIBILITY STUDY
							TEAM LEADER	TRACK ALIGNMENT
							PR. MANAGER	0+800 ~ 1+000
							SHEET No.	
							DRG No.	
							DRG S.	
							REV	X1

Last modified by Admin 12/14/2017 5:45:09 PM
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Appendix 5 General Drawings of Viaduct



12/14/2017 12:18:40 PM
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 Last modified by Admin

VERSIONS	DATE	DESCRIPTION

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

CONSULTANT

ORIENTAL CONSULTANTS GLOBAL CO.,LTD	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO.,LTD
TONICHI ENGINEERING CONSULTANTS INC	ENVIRONMENTAL RESOURCE MANAGEMENT ERM JAPAN LTD.

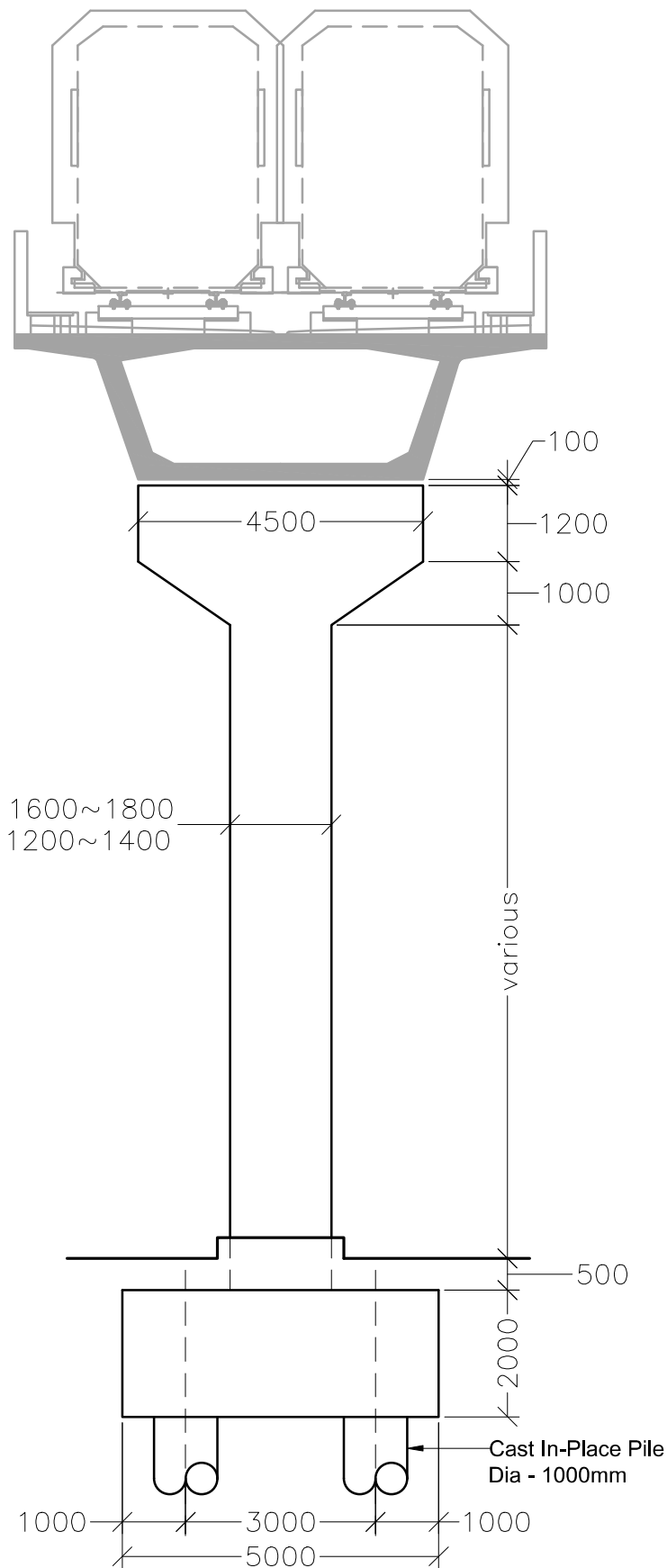
TITLE	NAME	SIGNATURE
DESIGNER		
CHECK		
TEAM LEADER		
PR. MANAGER		

ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO

FEASIBILITY STUDY

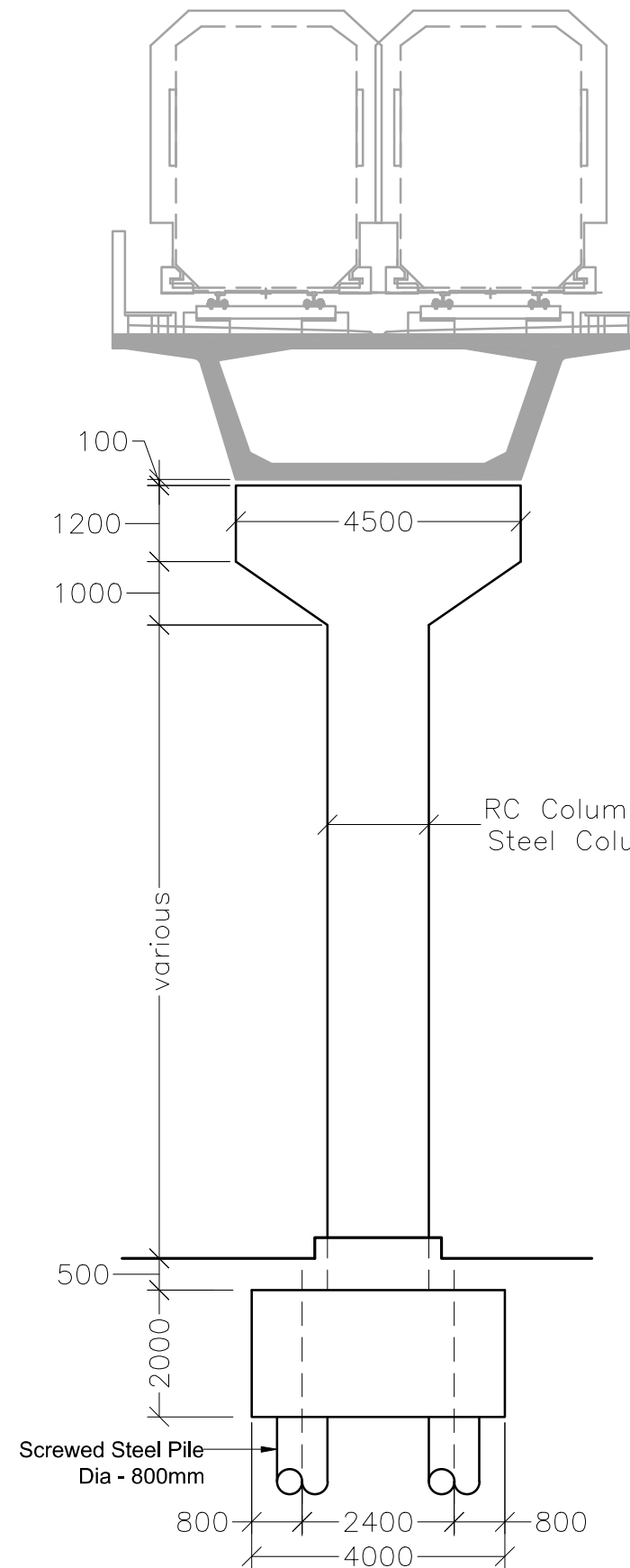
TYPICAL SECTION FOR PC BOX GIRDER (TANGENT)

DATE	12/14/2017
SCALE	A4 - 1:50
SHEET No.	
DRG No.	
DRG S.	
REV	X1



RC Column : 1600~1800
Steel Column : 1200~1400

SINGLE COLUMN PIER (CAST IN-PLACE PILE)

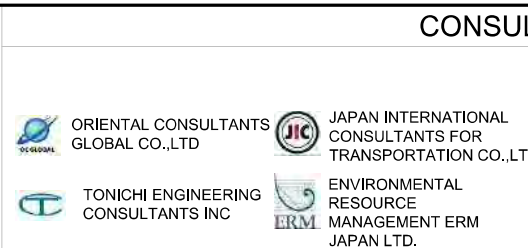


RC Column : 1600~1800
Steel Column : 1200~1400

SINGLE COLUMN PIER (SCREWED STEEL PILE)

12/15/2017 12:20:23 PM
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Last modified by Admin

VERSIONS	DATE	DESCRIPTION

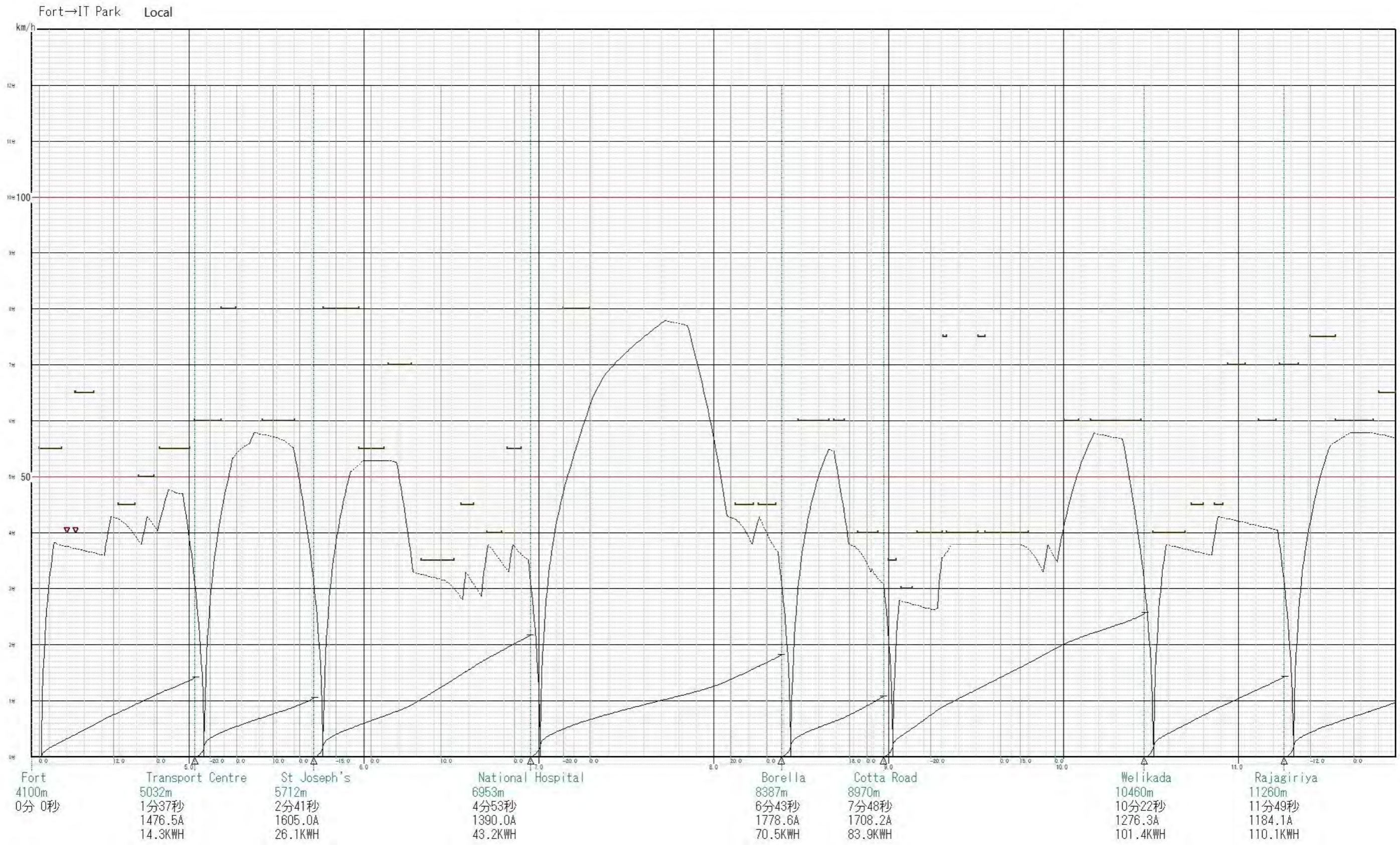


CONSULTANT		
TITLE	NAME	SIGNATURE
DESIGNER		
CHECK		
TEAM LEADER		
PR. MANAGER		

ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	
FEASIBILITY STUDY	
TYPICAL SECTION FOR SINGLE COLUMN PIER	

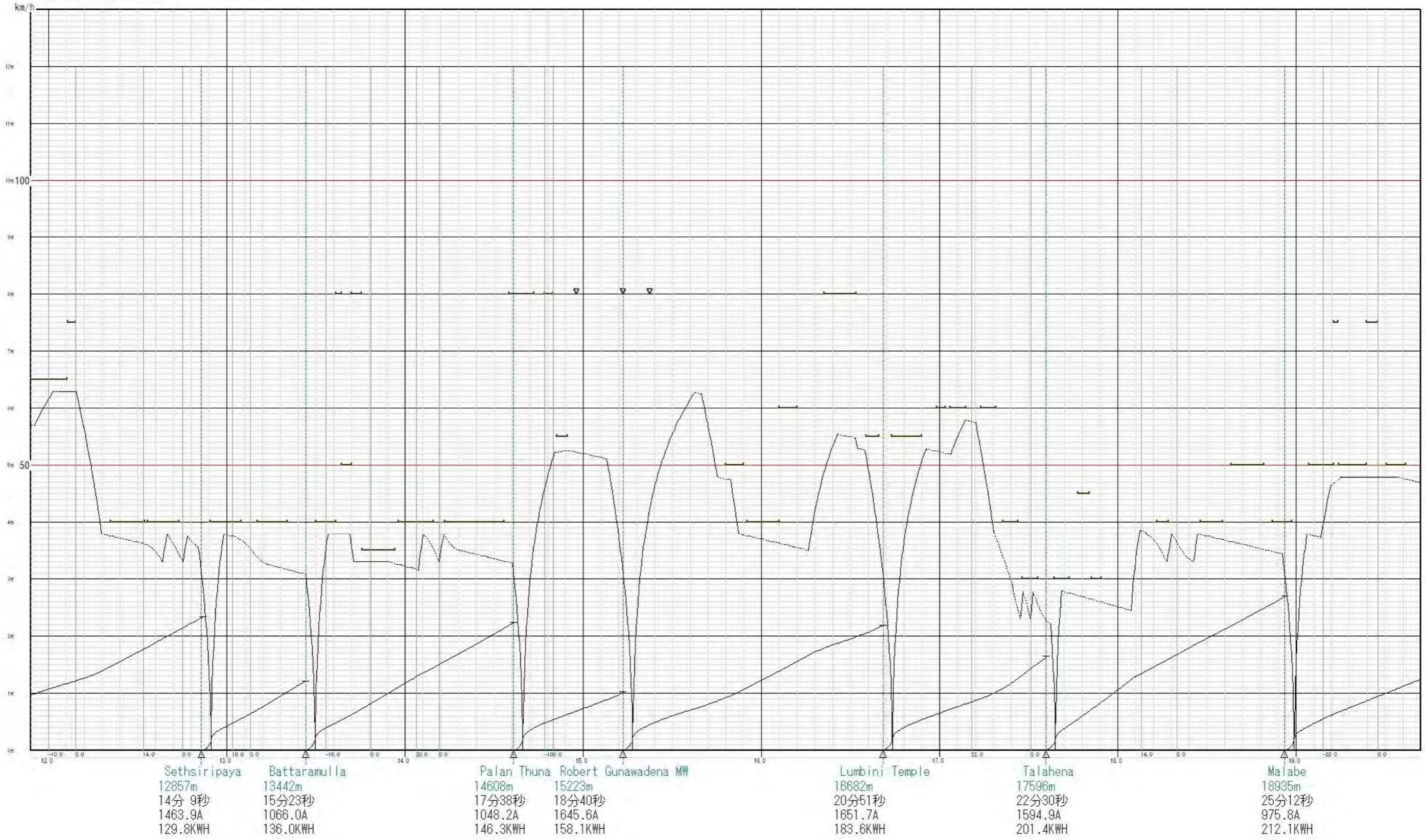
DATE	12/15/2017
SCALE	A4 - NTS
SHEET No.	
DRG No.	
DRG S.	
REV	X1

Appendix 6 Train Performance Curve & Train Operation Diagram

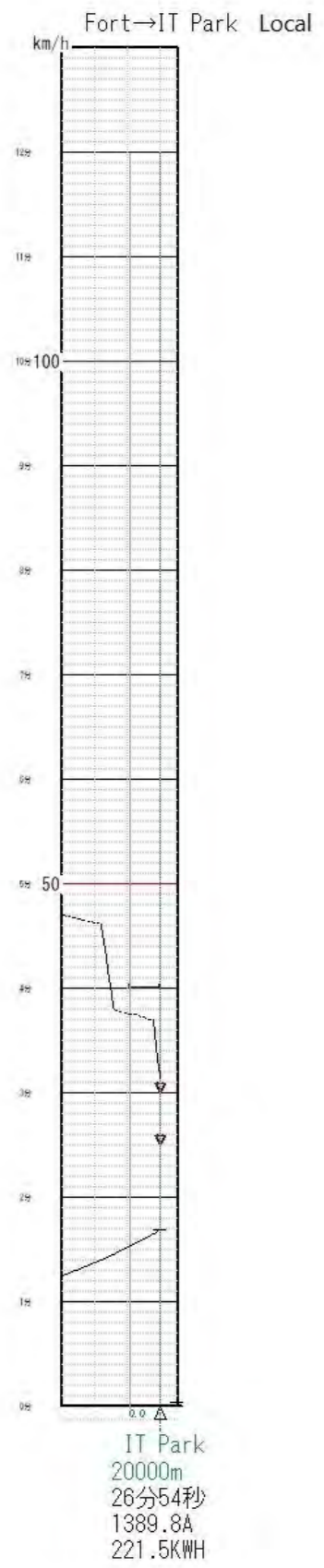


Train Performance Curve: Fort → IT-Park, Local train (1)

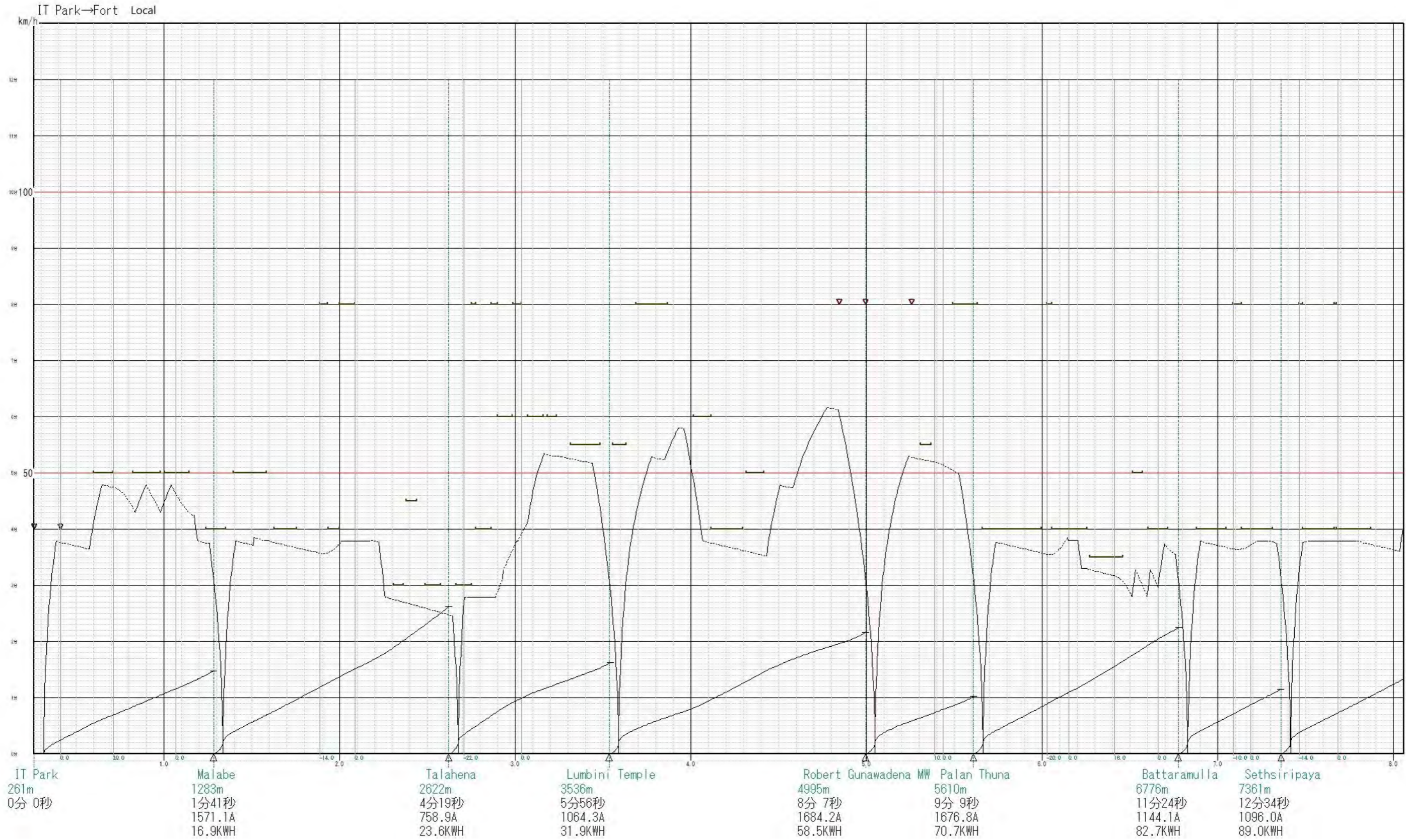
Fort → IT Park Local



Train Performance Curve: Fort → IT-Park, Local train (2)

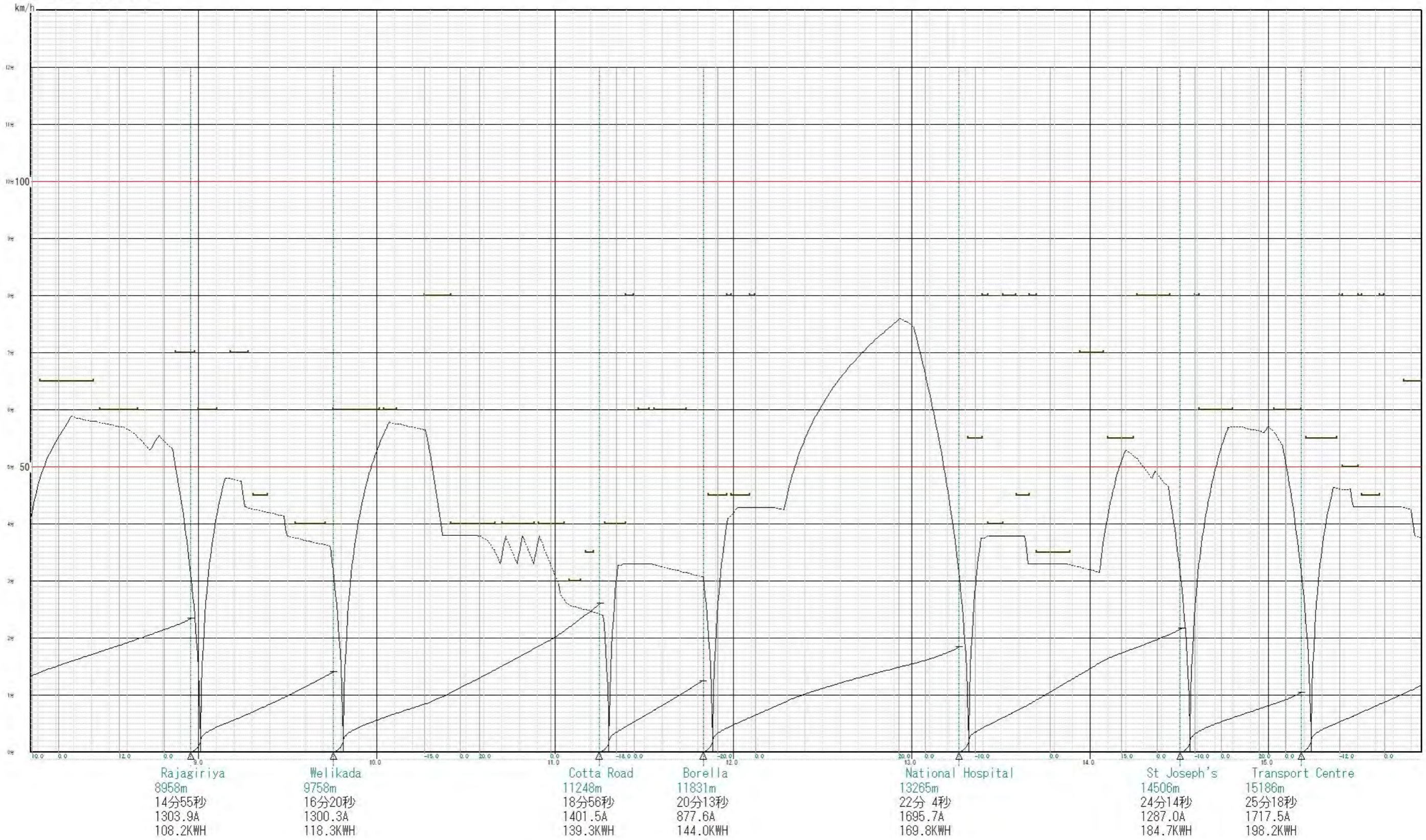


Train Performance Curve: Fort → IT-Park, Local train (3)



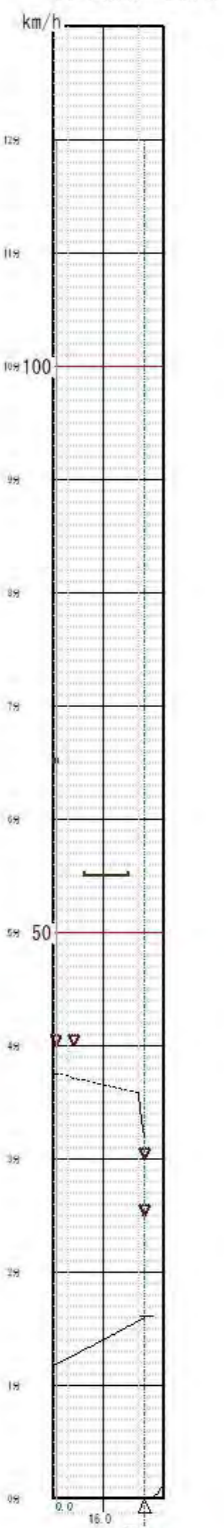
Train Performance Curve: IT-Park → Fort, Local train (1)

IT Park→Fort Local



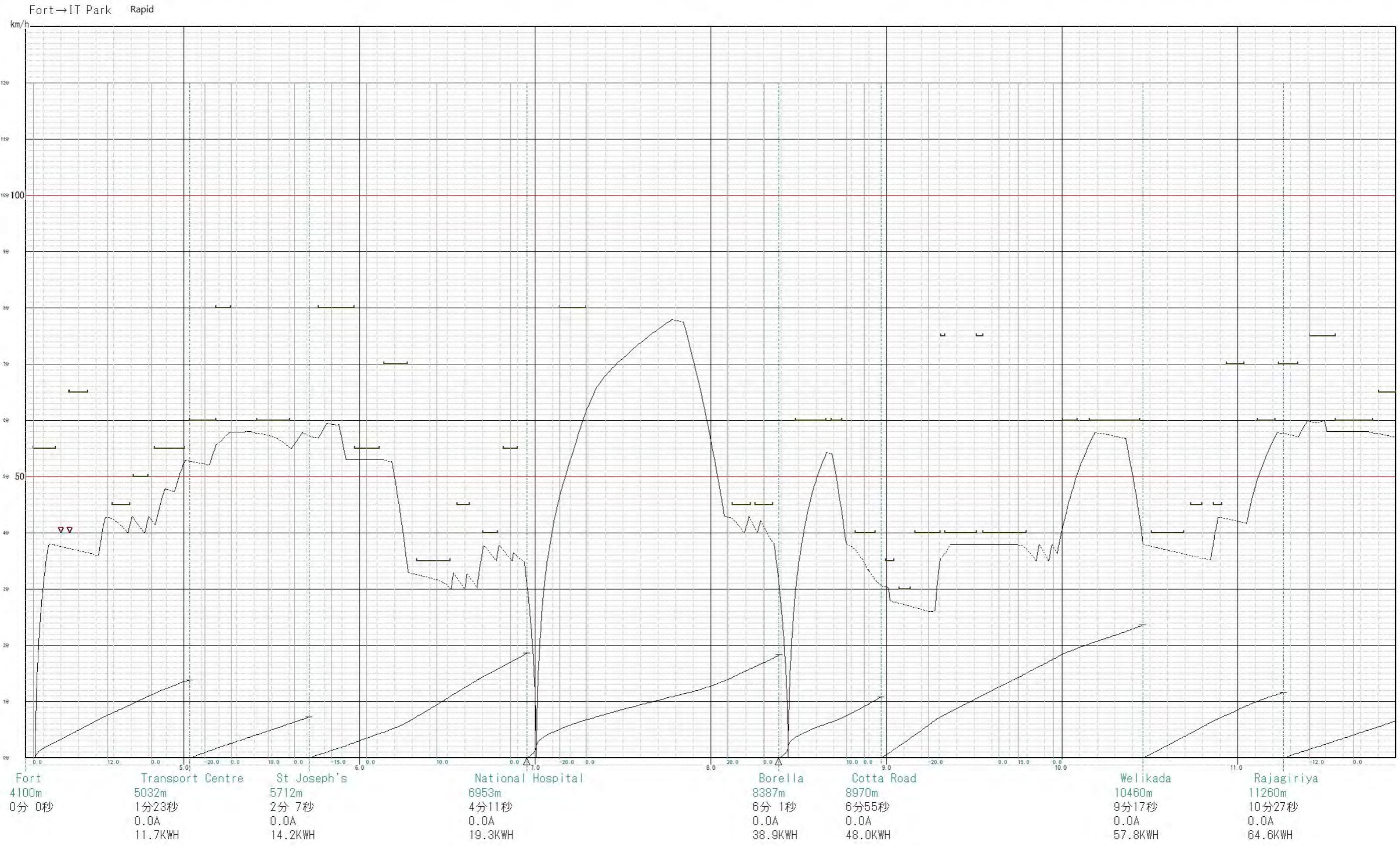
Train Performance Curve: IT-Park → F ort, Local train (2)

IT Park→Fort Local

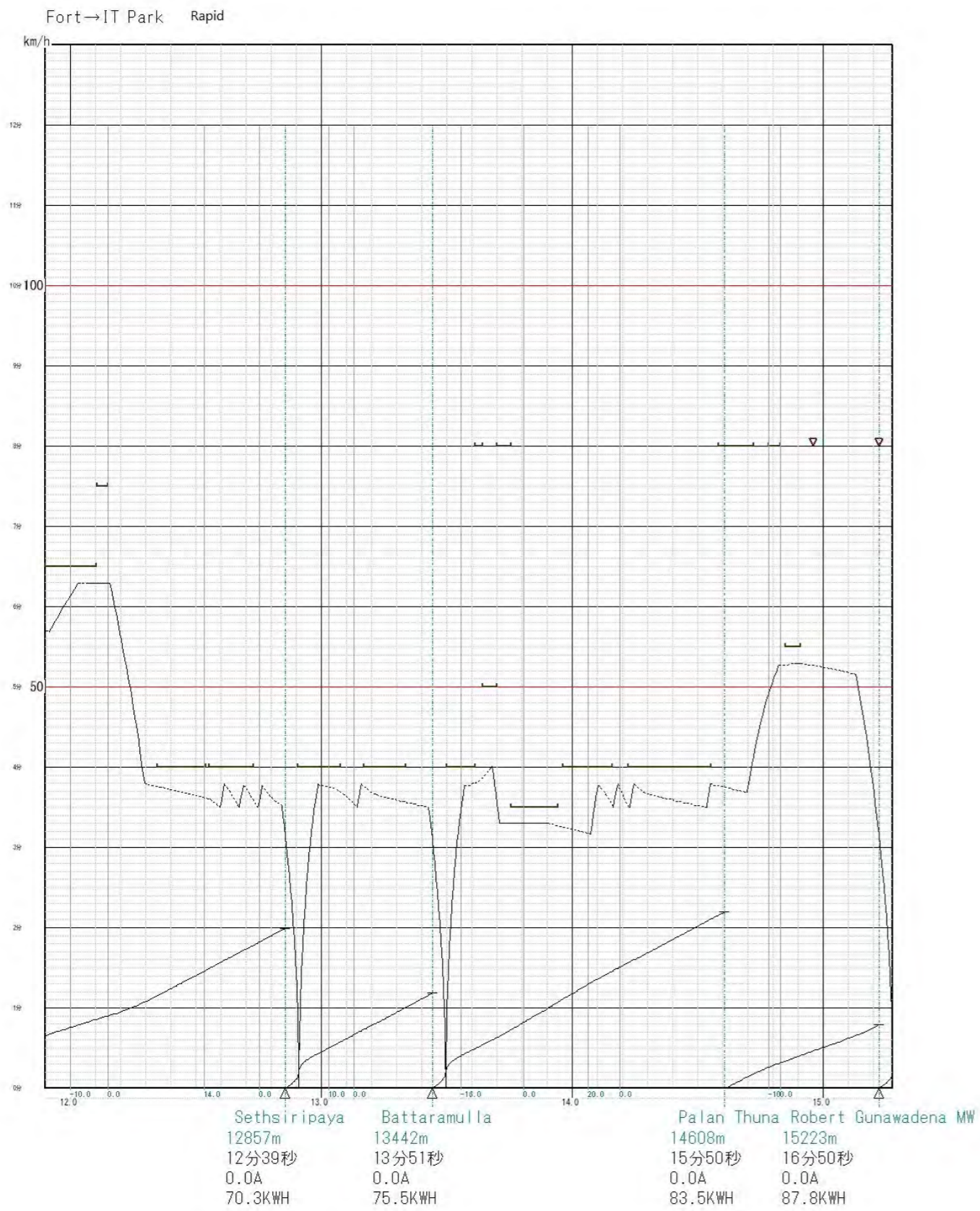


Fort
16118m
26分55秒
1337.1A
207.6KWH

Train Performance Curve: IT-Park → F ort, Local train (3)

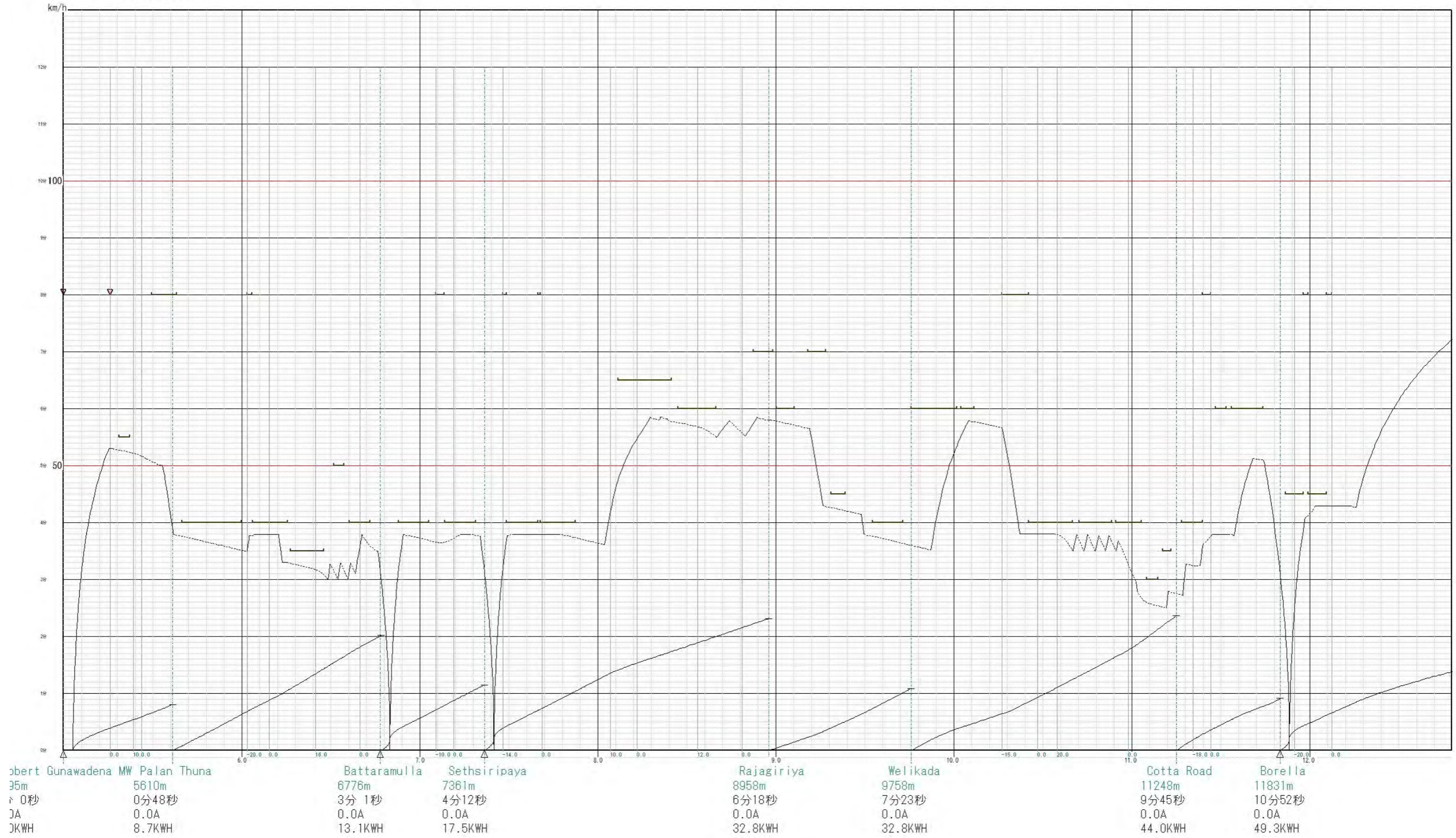


Train Performance Curve: Fort → IT-Park, Rapid train (1)

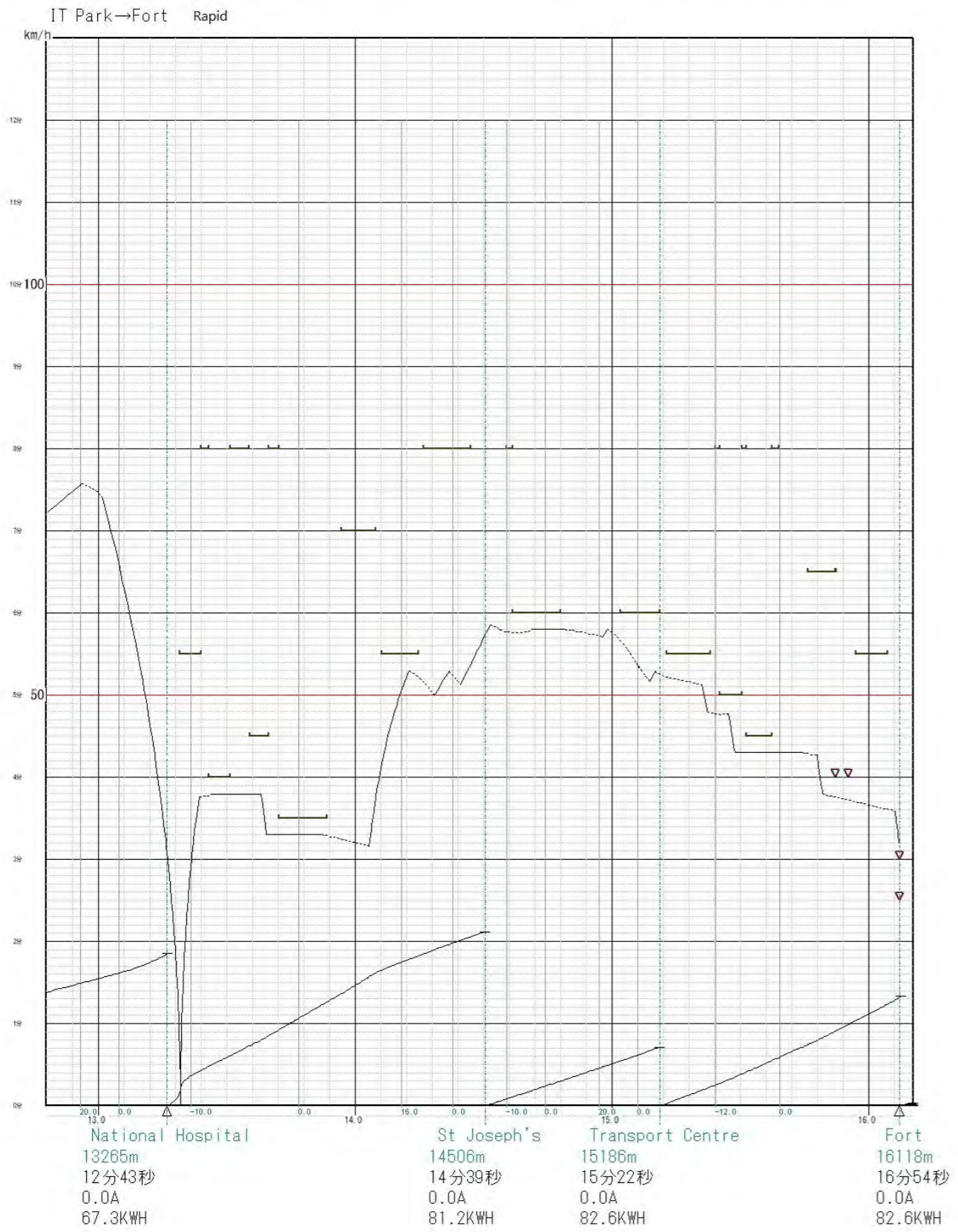


Train Performance Curve: Fort → IT-Park, Rapid train (2)

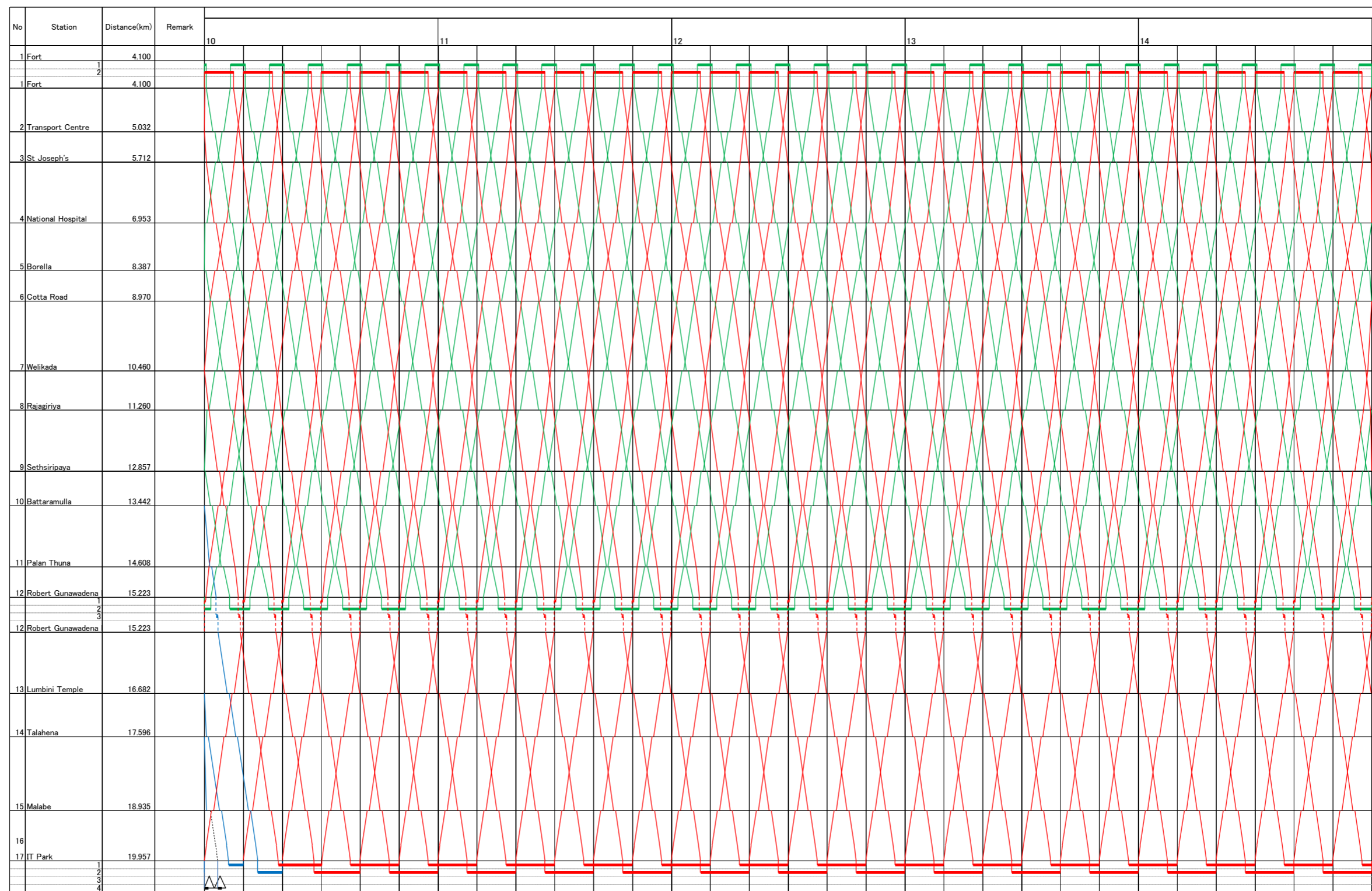
IT Park→Fort Rapid



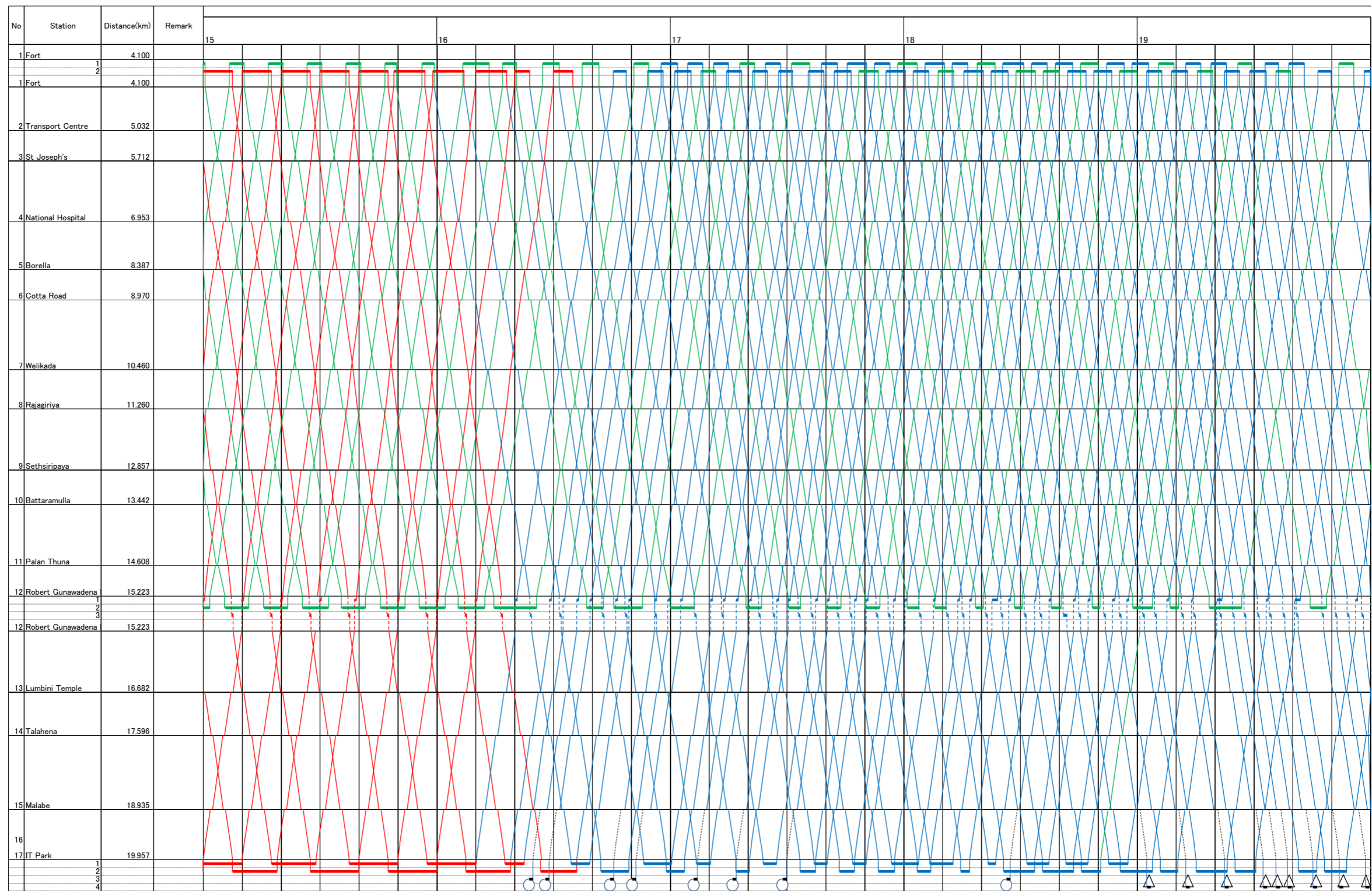
Train Performance Curve: IT-Park→ Fort, Rapid train (1)



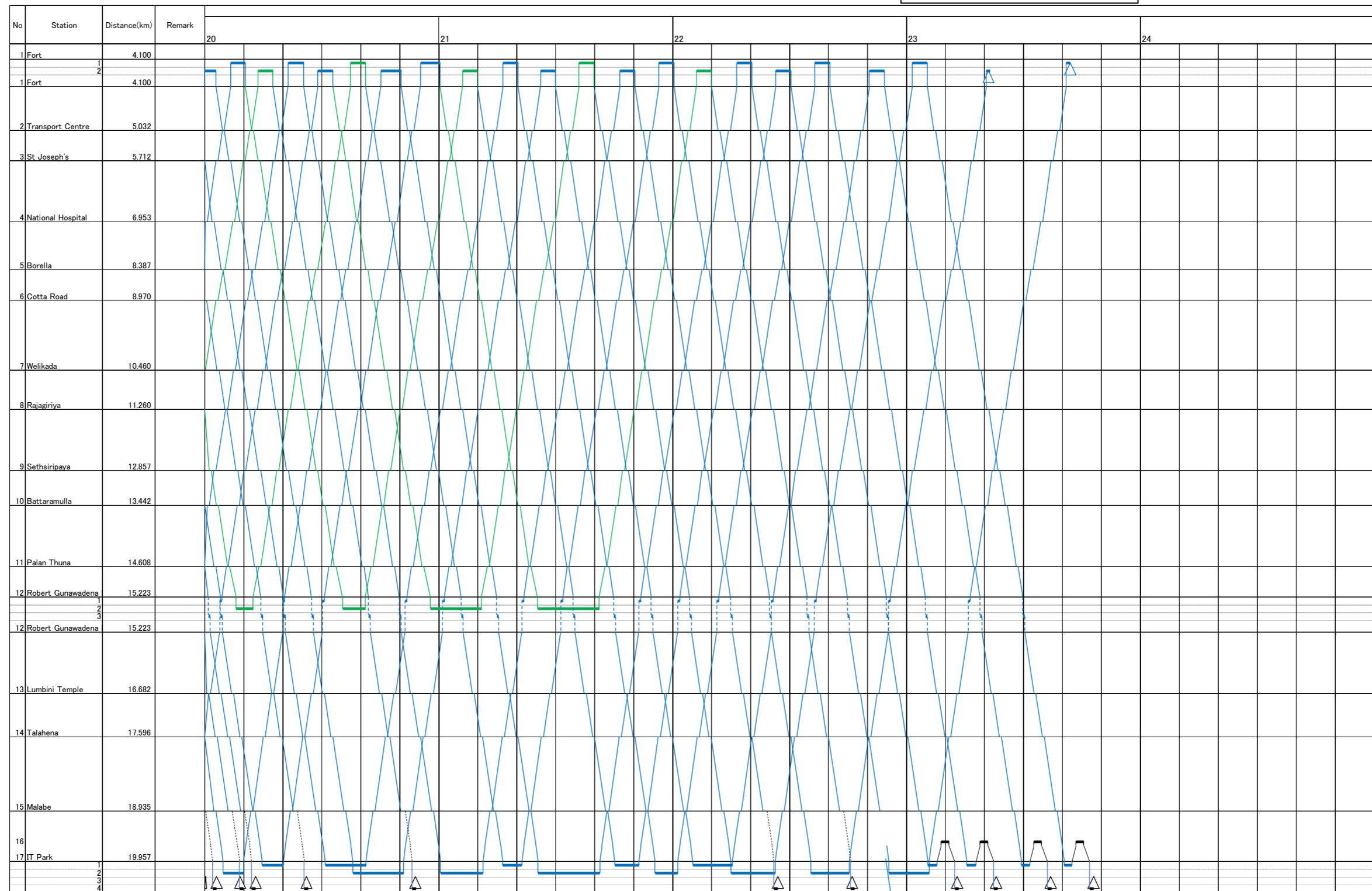
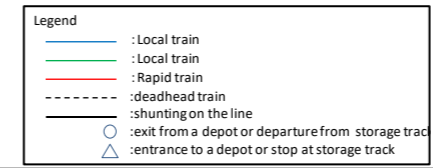
Train Performance Curve: IT-Park→ Fort, Rapid train (2)



Expected Train Operation Diagram (2025 and 2035) (2)



Expected Train Operation Diagram (2025 and 2035) (3)





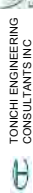
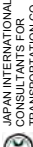

Expected Train Operation Diagram (2025 and 2035) (4)

Appendix 7 Depot Layout



1. Final Adjustment Shed W10mxL160m
2. Train Preparation Shed
3. Light Maintenance Shed
4. Wheel Re-profiling Shed
5. Oil Storage
6. Garbage Storage
7. Staff Cabin
8. Water Supply Facility
9. Pump House
10. Heavy Maintenance & Breakdown maintenance Shed
11. Painting Shed
12. Administration Building
13. Waste Water Treatment facility
14. Emergency Vehicle Garage
15. Industrial Waste Storage
16. Oil / Paint Storage
17. Main gate house
18. Sub Main gate
19. Car parking
20. Motor Bike Parking
21. Receiving Substation

VERSIONS	DATE	DESCRIPTION

 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		 ORIENTAL CONSULTANTS GLOBAL CO., LTD	
 TONICHI ENGINEERING CONSULTANTS INC		 JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD	
 ENVIRONMENTAL RESOURCE MANAGEMENT TERM JAPAN LTD.		CONSULTANT	
TITLE	NAME	SIGNATURE	DATE
DESIGNER			12/15/2017
CHECK			
TEAM LEADER			
PR. MANAGER			

ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO		SCALE A3 1:5000
FEASIBILITY STUDY		SHEET No.
DEPOT LOCATION MAP		DRG No.
DRG S.		REV. X1

Appendix 7-1



1. Final Adjustment Shed W10mxL160m
2. Train Preparation Shed
3. Light Maintenance Shed
4. Wheel Re profiling Shed
5. Oil Storage
6. Garbage Storage
7. Staff Cabin
8. Water Supply Facility
9. Pump House
10. Heavy Maintenance & Breakdown maintenance Shed
11. Painting Shed
12. Administration Building
13. Waste Water Treatment facility
14. Emergency Vehicle Garage
15. Industrial Waste Storage
16. Oil / Paint Storage
17. Main gate house
18. Sub Main gate
19. Car parking
20. Motor Bike Parking
21. Receiving Substation

DATE	12/13/2017
SCALE	1:1500
SHEET No.	1/2
DRG No.	
DRG S.	REV X1

ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO

FEASIBILITY STUDY

DEPOT LAYOUT

TITLE	DESIGNER	NAME	SIGNATURE
CHECK	TEAM LEADER		
PR. MANAGER			

CONSULTANT

ORIENTAL CONSULTANTS GLOBAL CO.,LTD

JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO.,LTD

TONICHI ENGINEERING CONSULTANTS INC

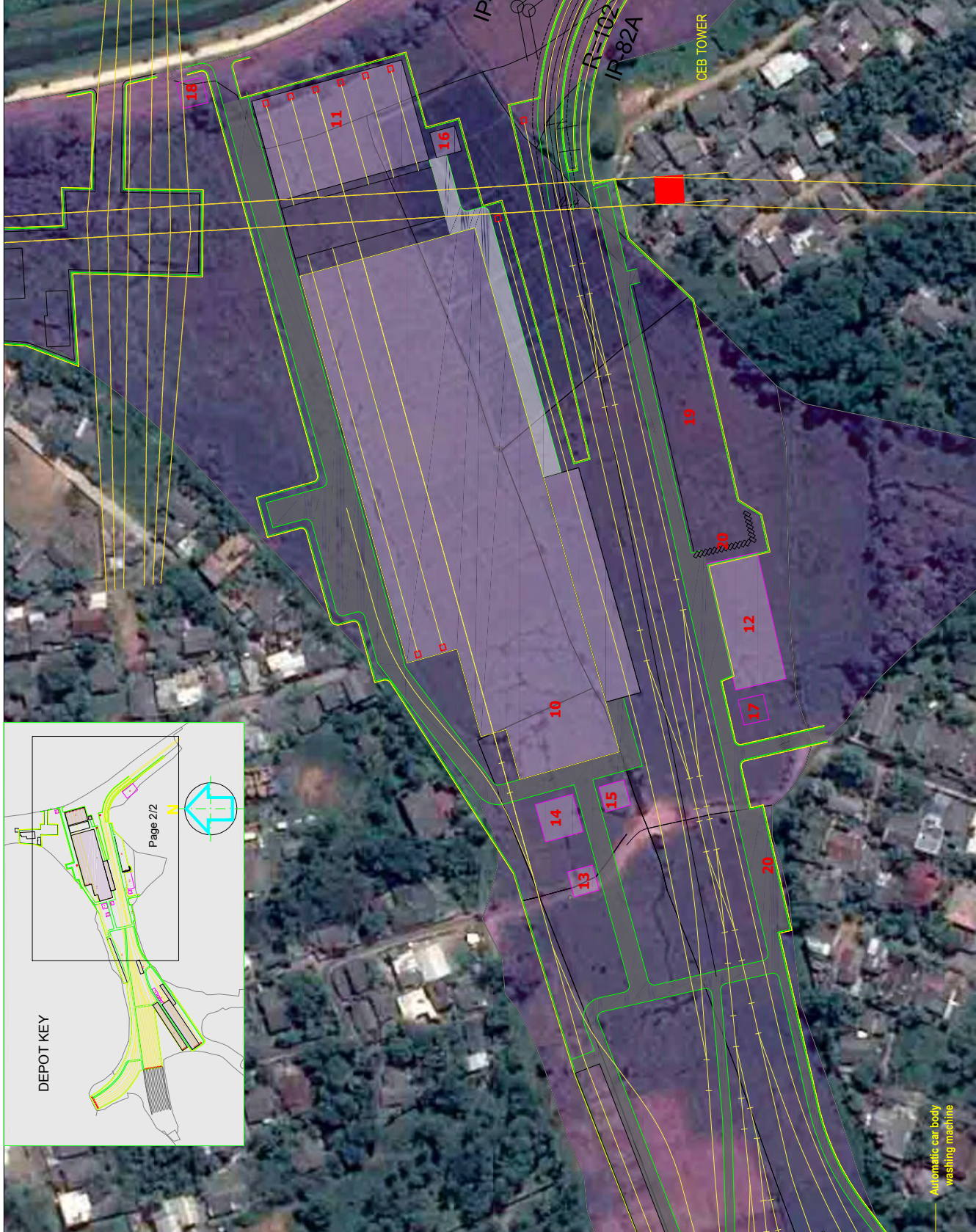
ENVIRONMENTAL RESOURCE MANAGEMENT FIRM JAPAN LTD.

JICA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

VERSIONS	DATE	DESCRIPTION

1. Final Adjustment Shed W10mX160m
2. Train Preparation Shed
3. Light Maintenance Shed
4. Wheel Re-profiling Shed
5. Oil Storage
6. Garbage Storage
7. Staff Cabin
8. Water Supply Facility
9. Pump House
10. Heavy Maintenance & Breakdown maintenance Shed
11. Painting Shed
12. Administration Building
13. Waste Water Treatment facility
14. Emergency Vehicle Garage
15. Industrial Waste Storage
16. Oil / Paint Storage
17. Main gate house
18. Sub Main gate
19. Car parking
20. Motor Bike Parking
21. Receiving Substation



VERSIONS	DATE	DESCRIPTION

TITLE	NAME	SIGNATURE	
DESIGNER			
CHECK			
TEAM LEADER			
PR. MANAGER			

DATE	12/13/2017
SCALE	1:1500
SHEET No.	2/2
DRG No.	
DRG S.	REV X1

ESTABLISHMENT OF NEW LIGHT RAIL TRANSIT SYSTEM IN COLOMBO	
FEASIBILITY STUDY	
DEPOT LAYOUT	

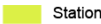






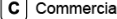
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Appendix 8 Layout of Connecting Plan to the Surrounding Area

Appendix 8 Layout of Connecting Plan to the Surrounding Area


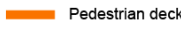


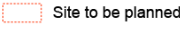



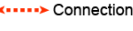

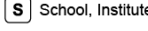





Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others



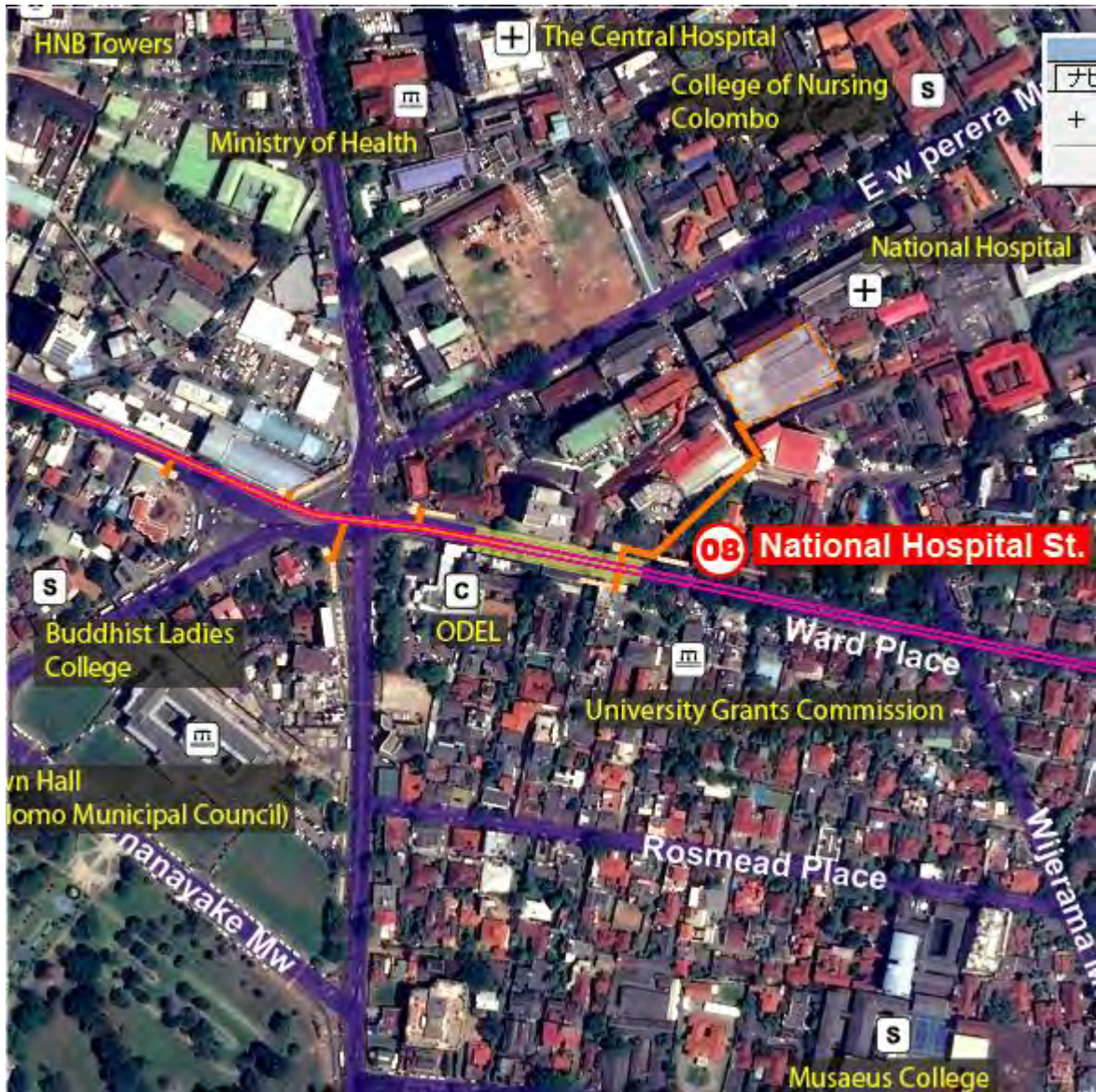
Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others















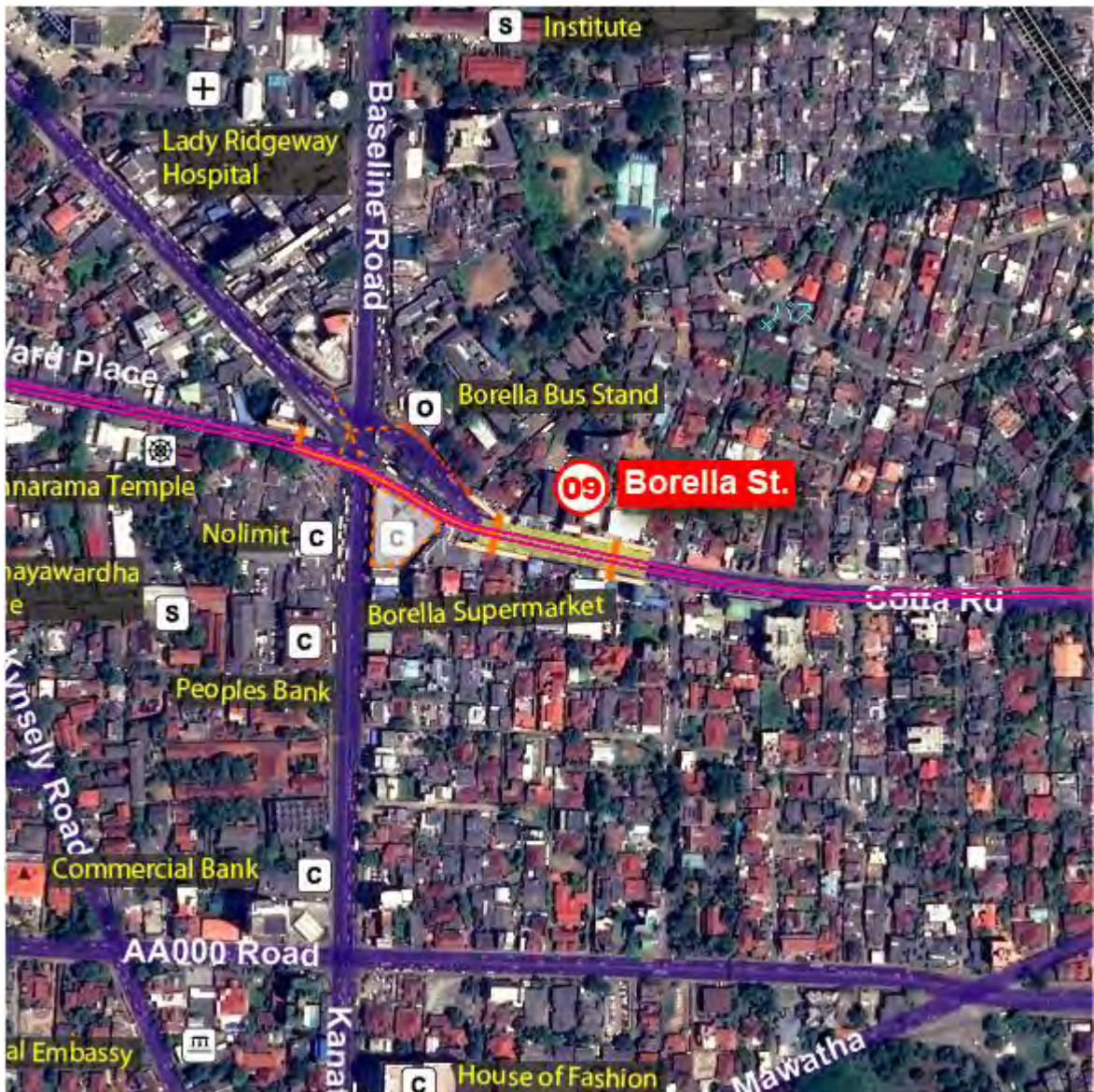
Legend

Station	Pedestrian deck	Hospital	Government
Site to be planned	Staircase	Hotel	Temple
Connection	Elevator	School, Institute	Park
		Commercial	Others


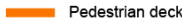




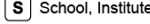



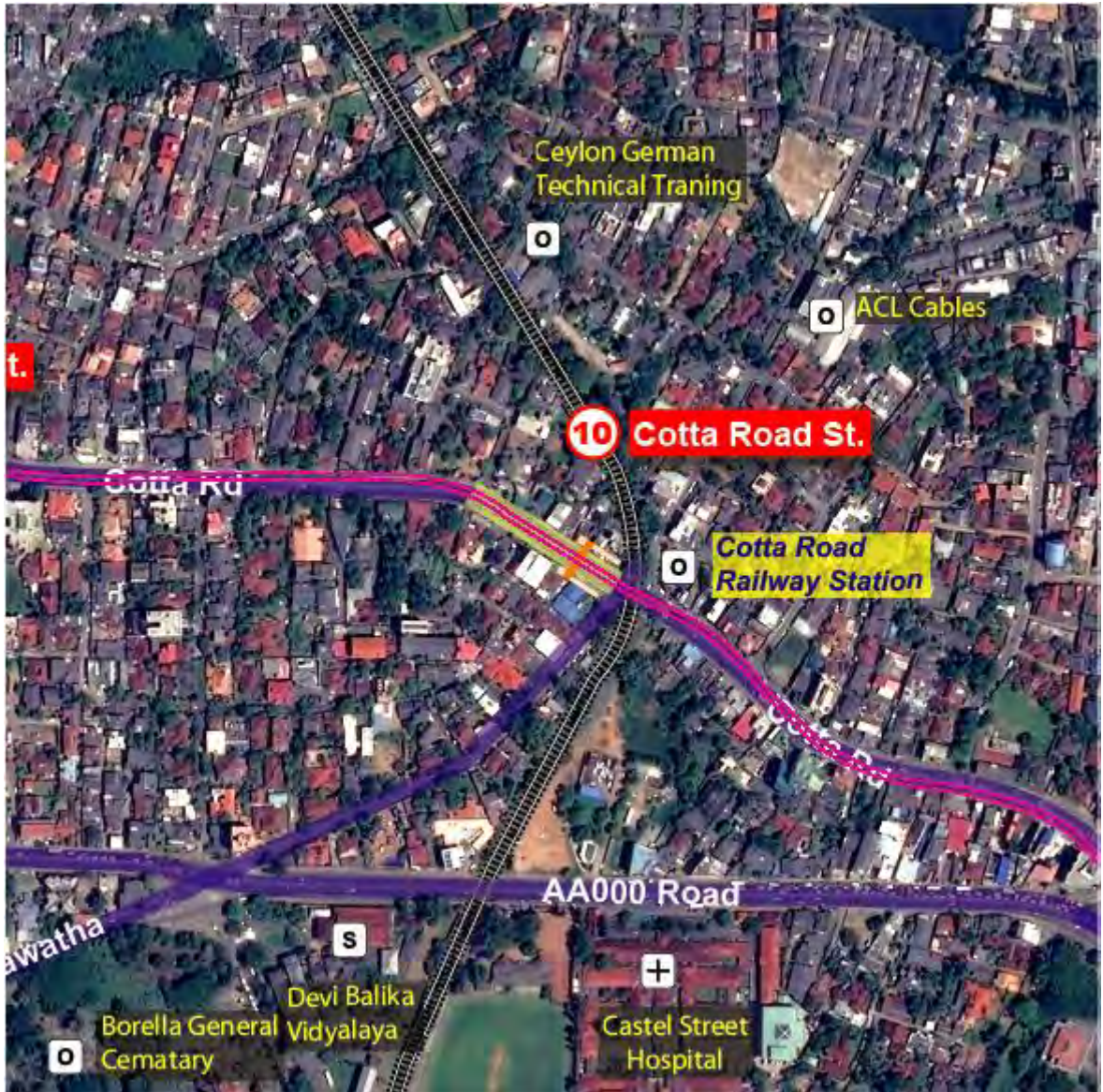
Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others

















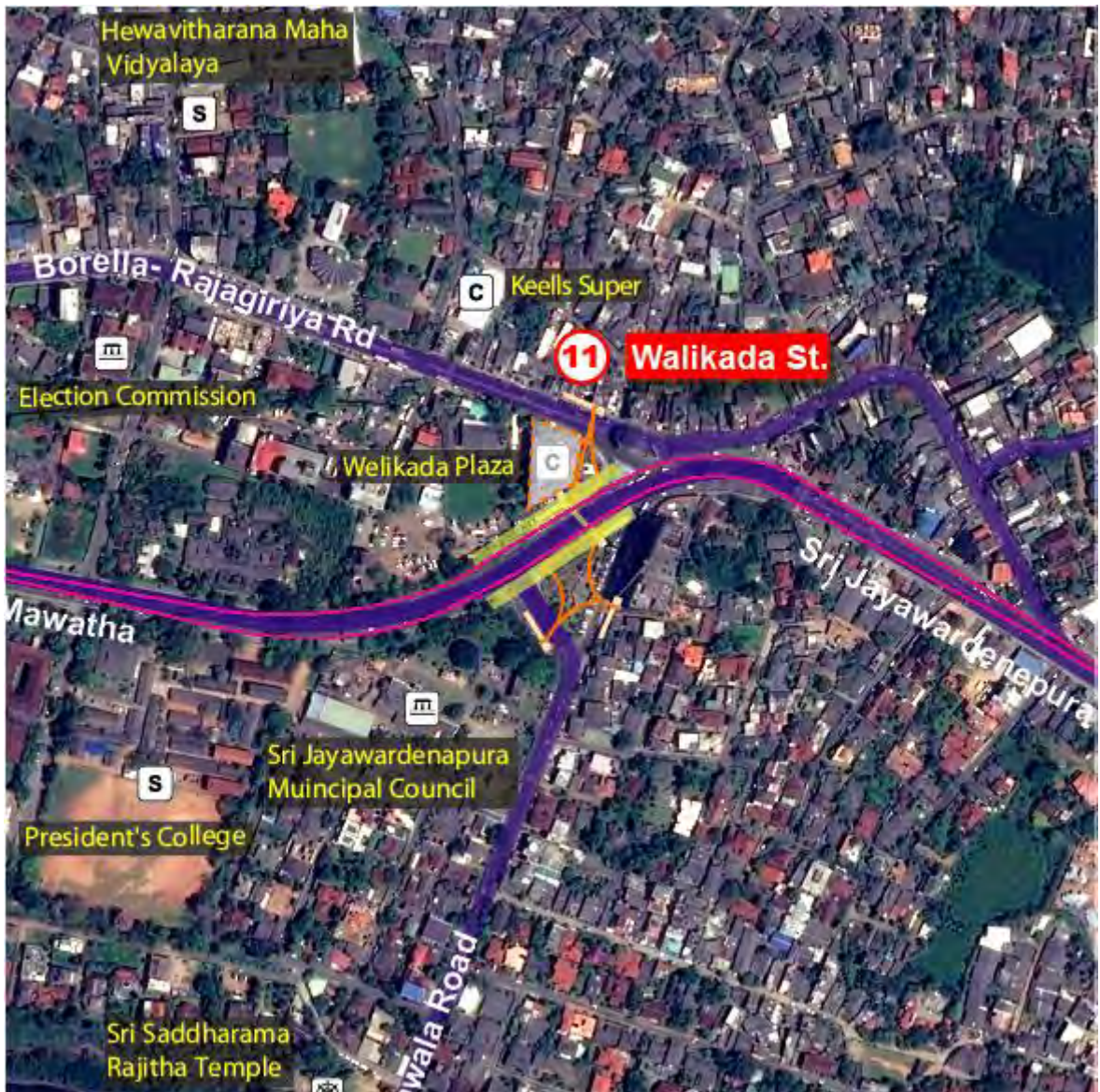
Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others

















Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others

















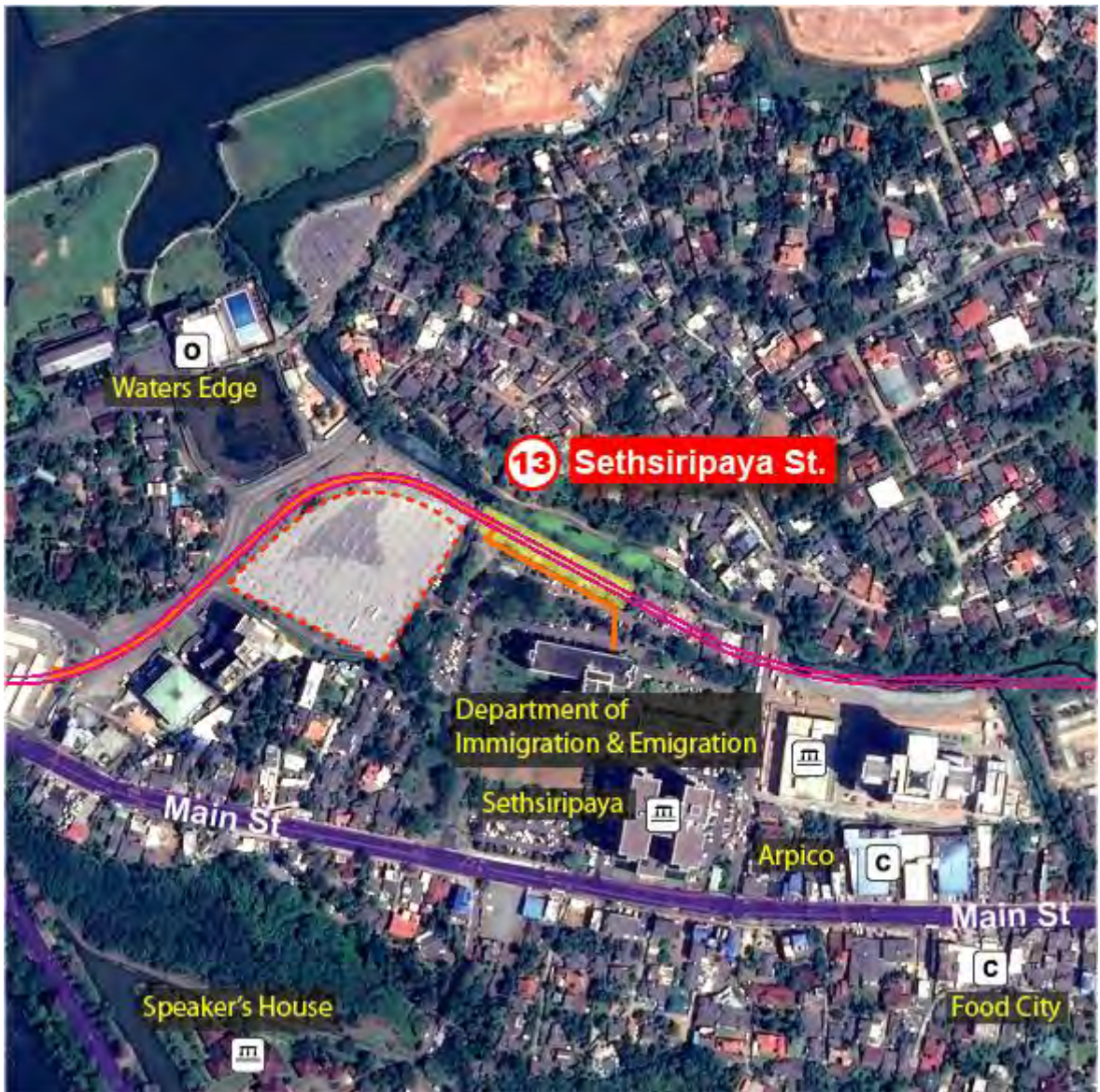
Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
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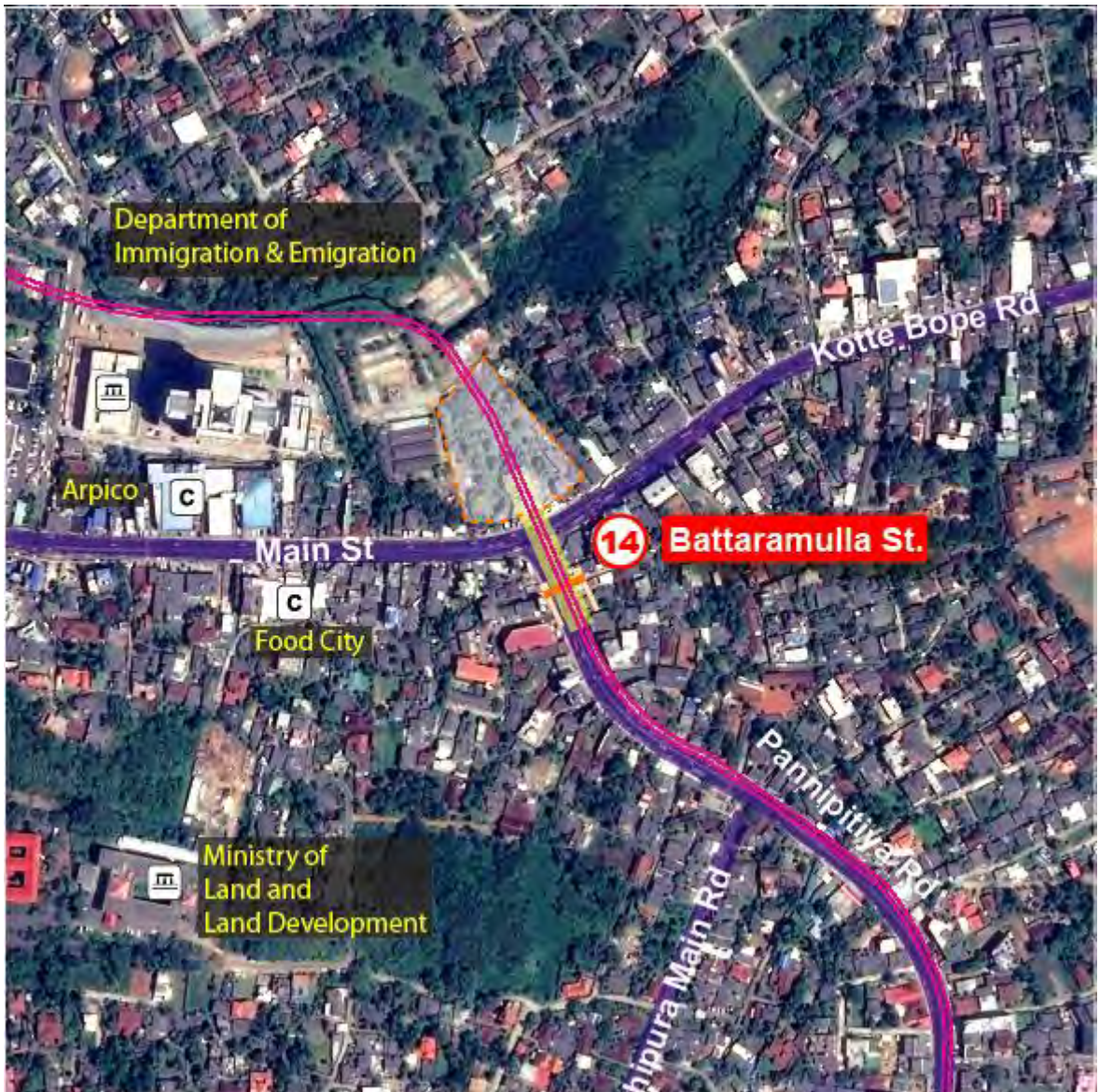
Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others





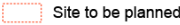











Legend

Station	Pedestrian deck	Hospital	Government
Site to be planned	Staircase	Hotel	Temple
Connection	Elevator	School, Institute	Park
		Commercial	Others

















Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
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













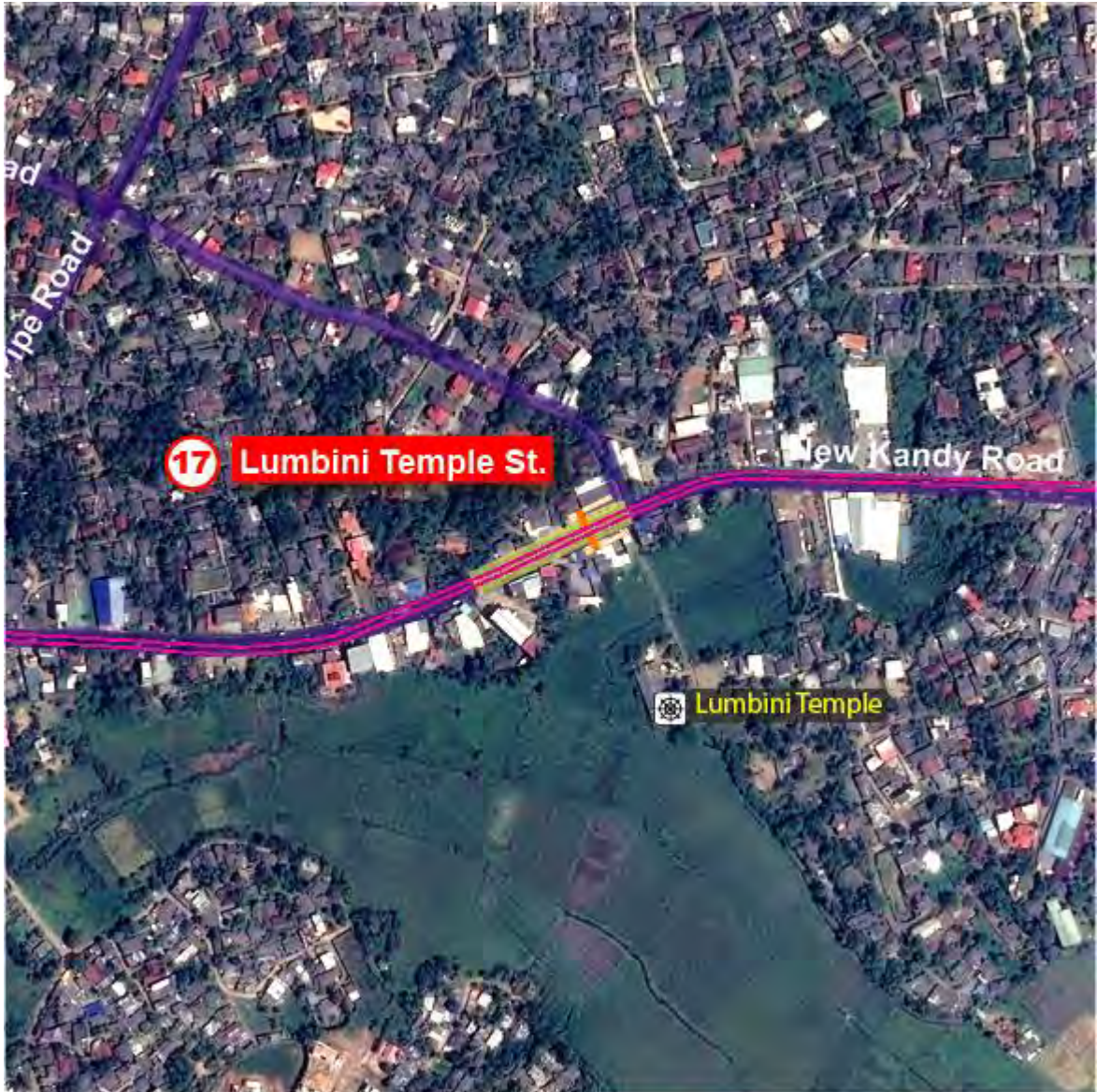
Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
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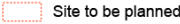

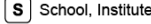


Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
		 Commercial	 Others


















Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Elevator	 School, Institute	 Park
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













Legend

 Station	 Pedestrian deck	 Hospital	 Government
 Site to be planned	 Staircase	 Hotel	 Temple
 Connection	 Staircase	 School, Institute	 Park
	 Elevator	 Commercial	 Others


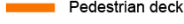


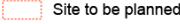











Legend

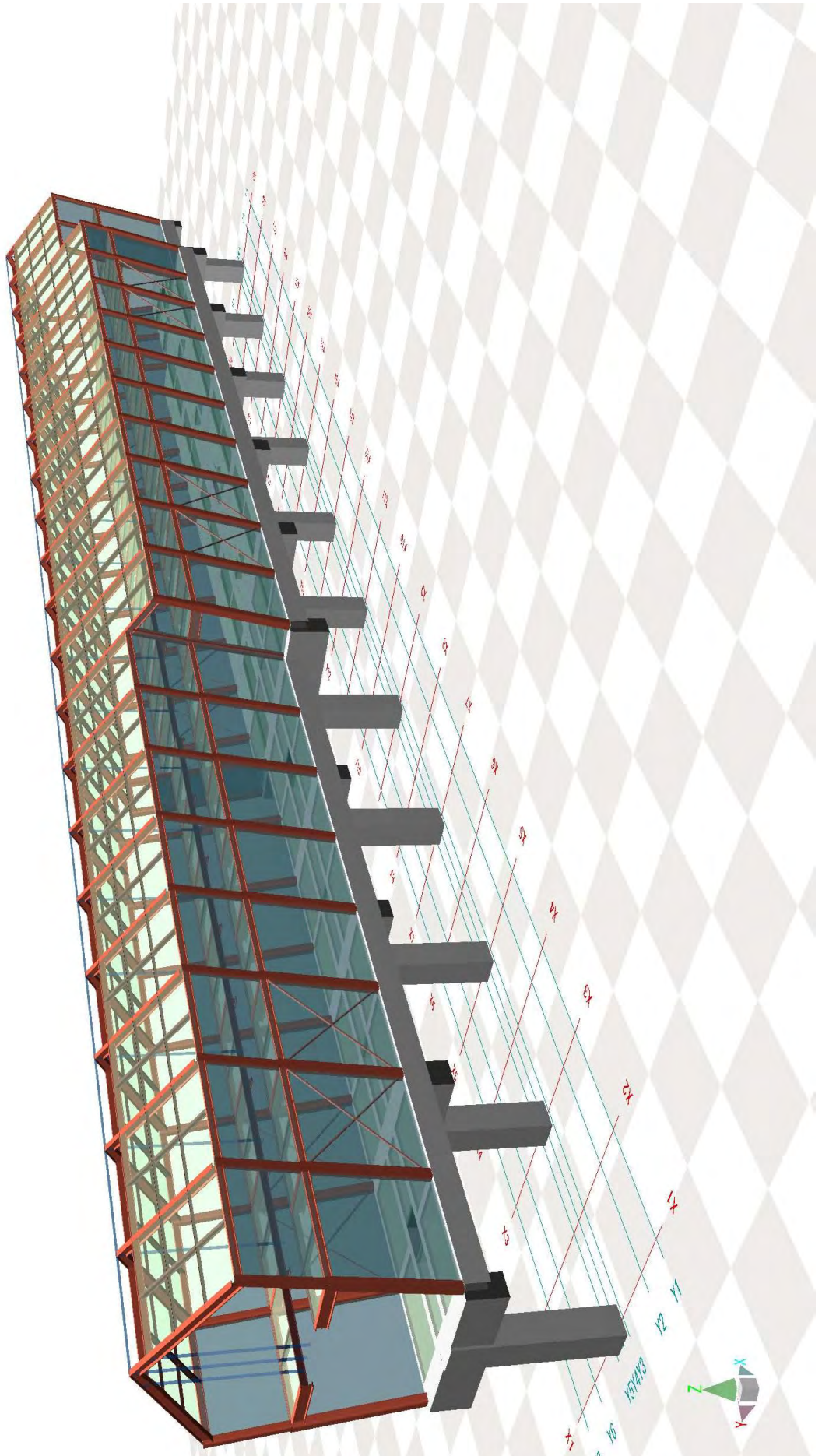
 Station	 Pedestrian deck	 Hospital	 Government
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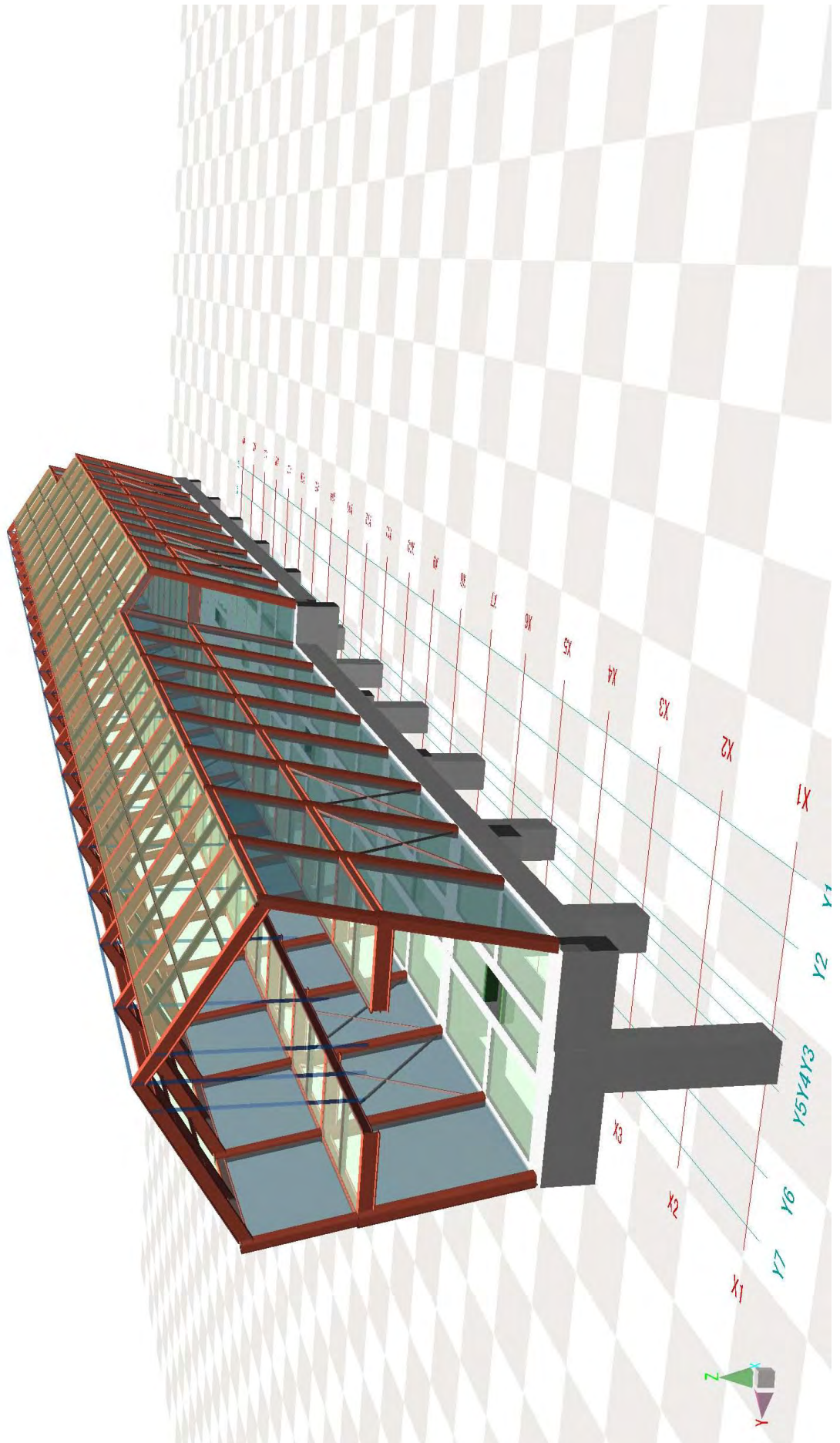
Legend

 Station	 Pedestrian deck	 Hospital	 Government
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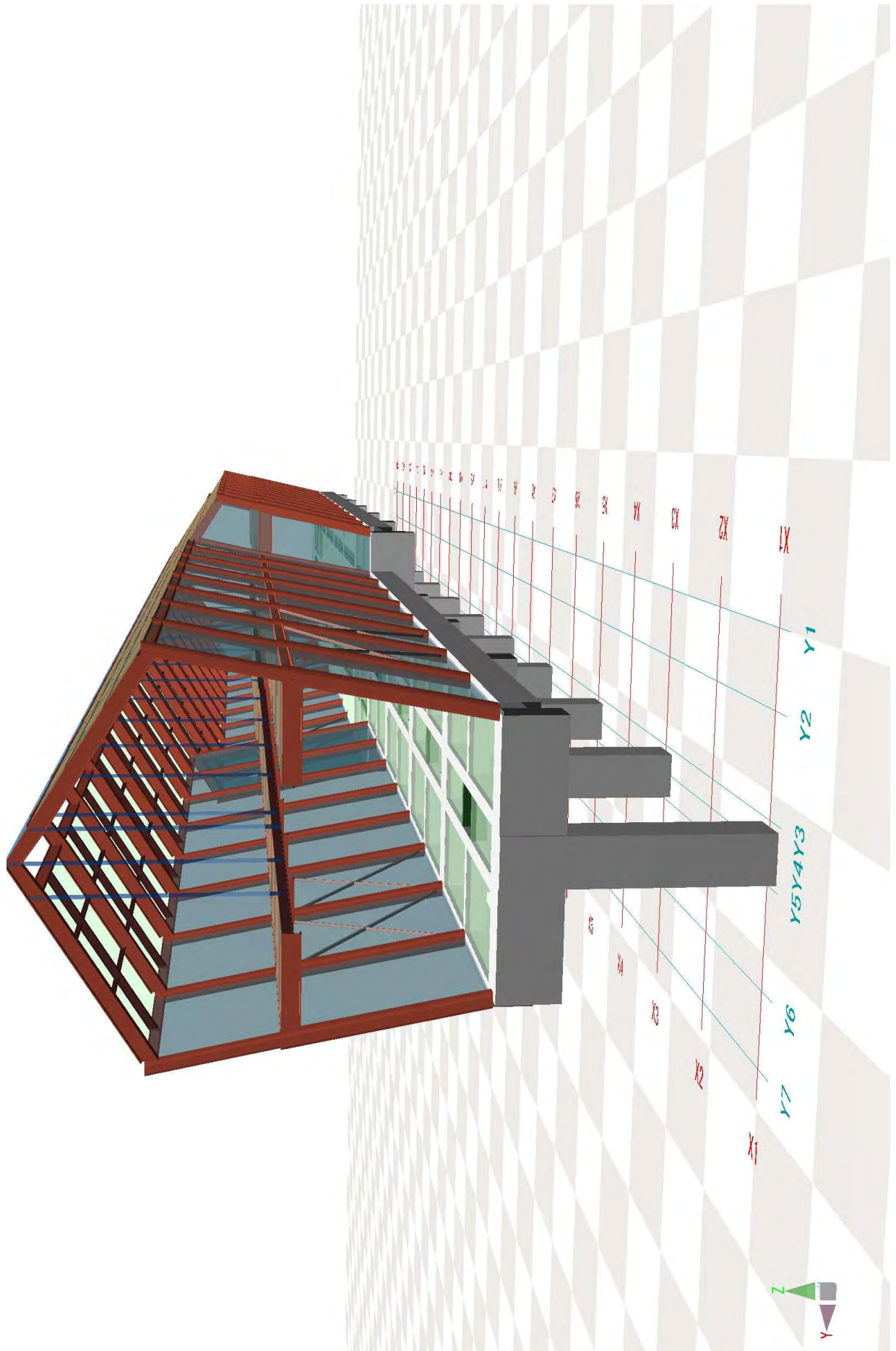
Appendix 9 Results of Structure Analysis



【 3D图 】

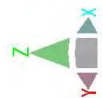
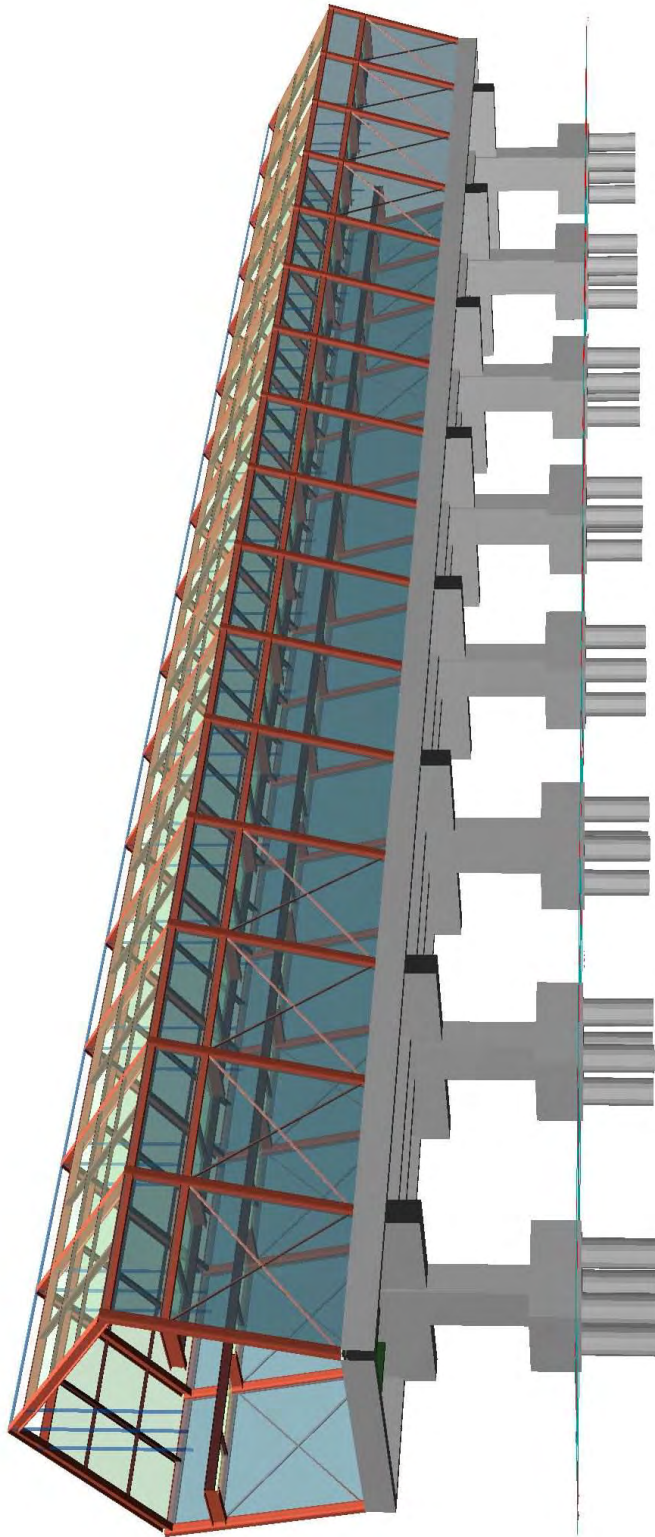


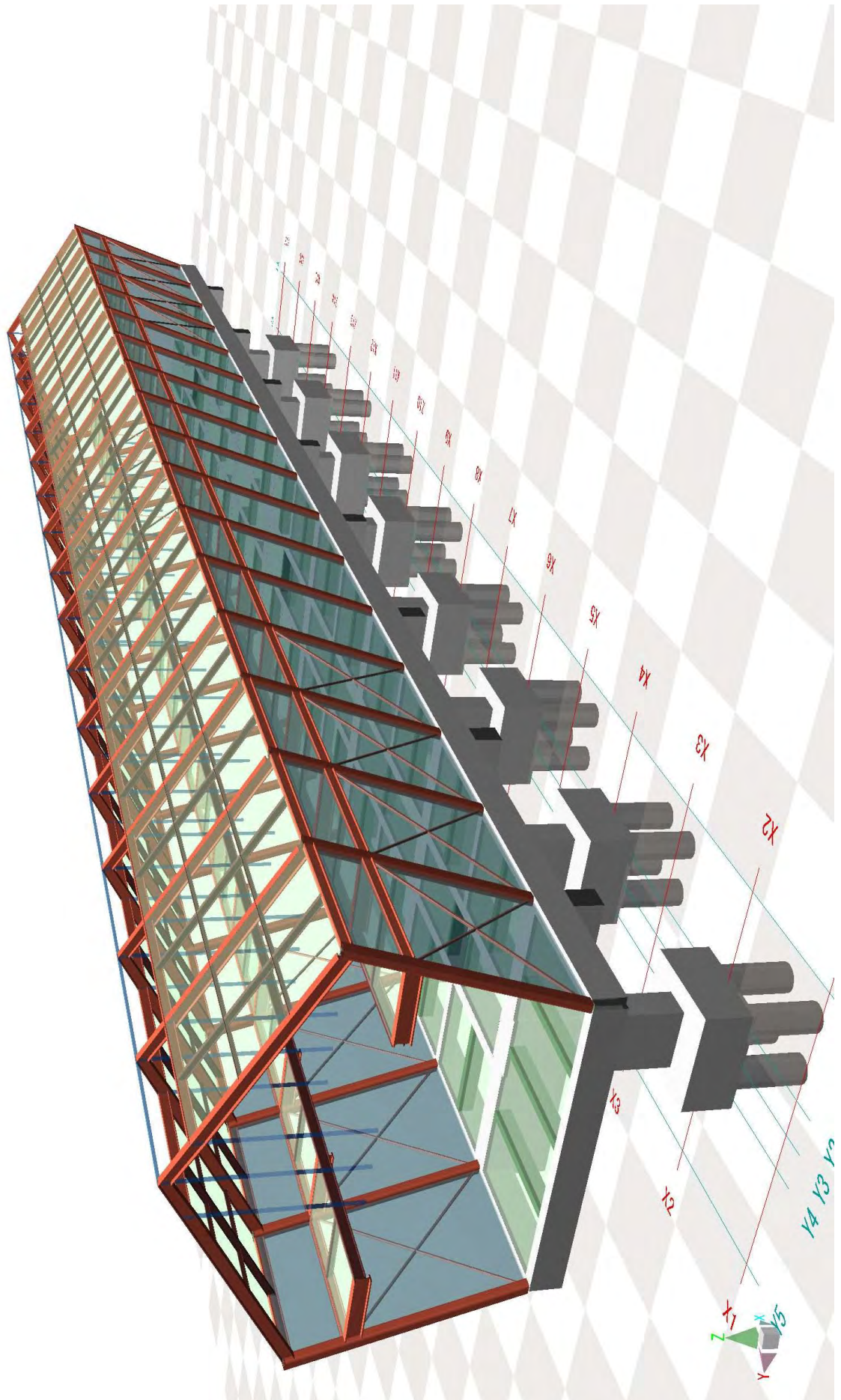
【 3D图 】



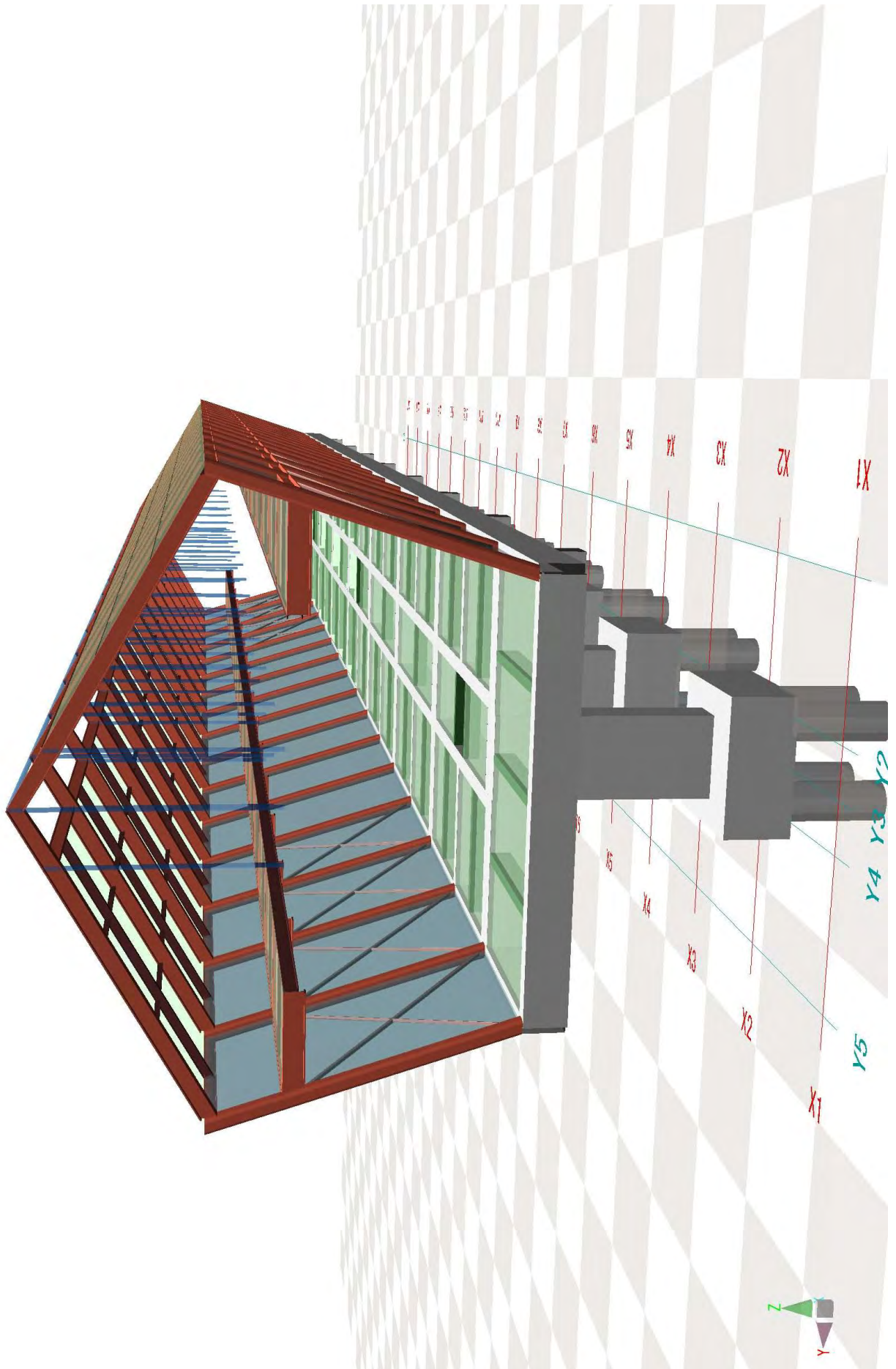
【 3D图 】

【 3D图 】

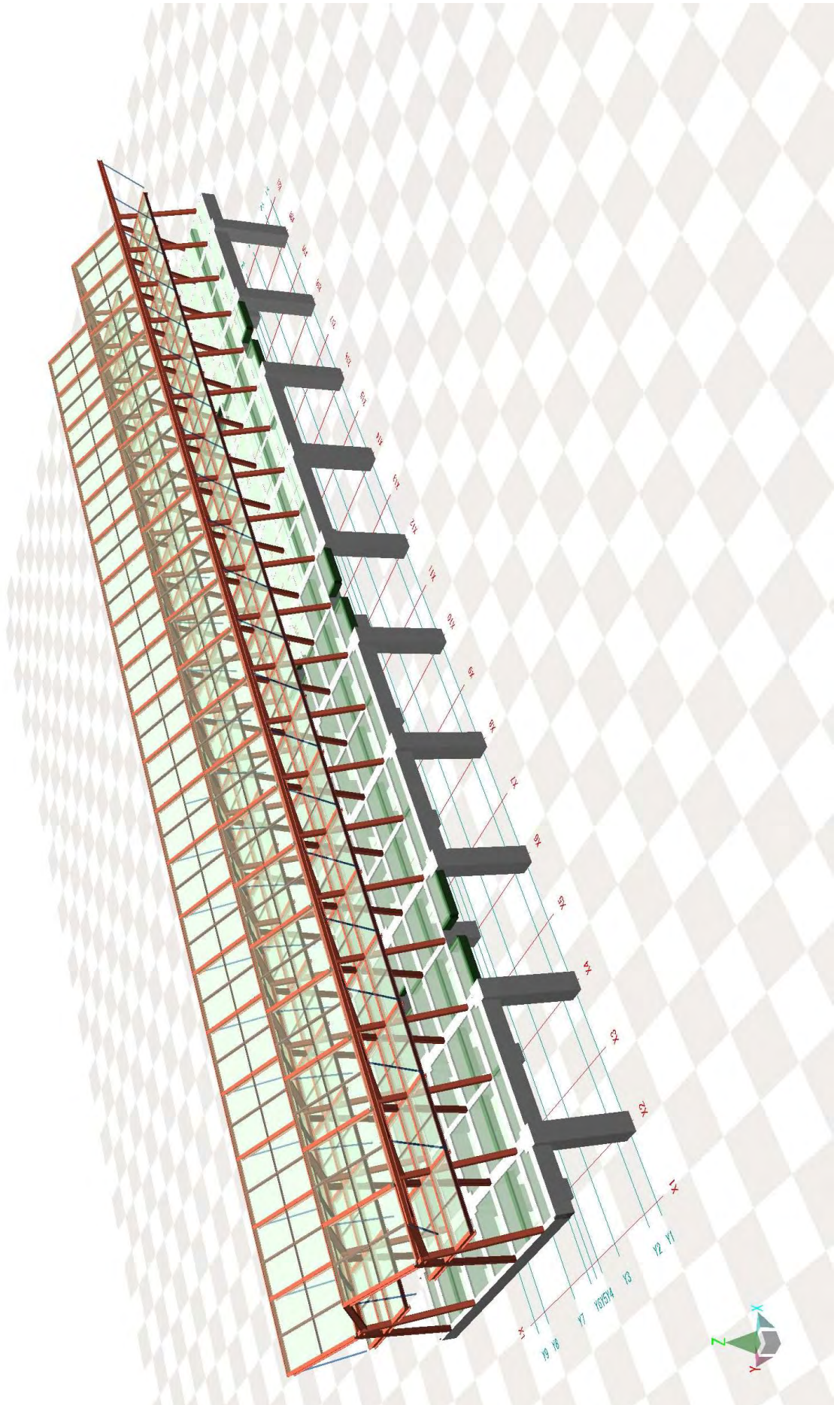




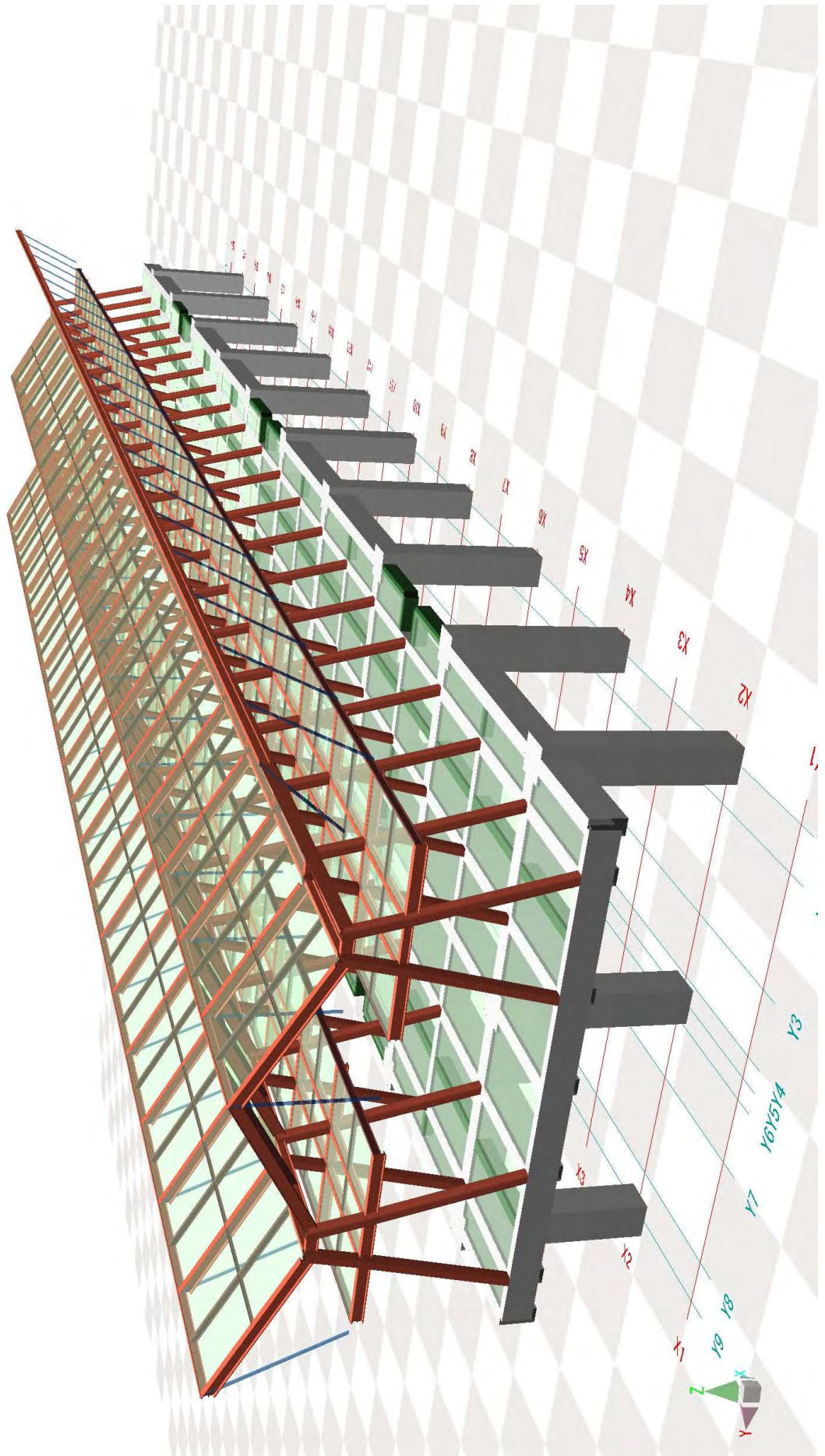
【 3D图 】



【 3D图 】



【 3D图 】



【 3D图 】

【 3D图 】

