

# INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)

## PHASE 1

R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)

# DRAWINGS

(VOLUME III)

**PART 3: ELECTRICAL SYSTEM, TRAFFIC SIGNALIZATION, STREET  
LIGHTING SYSTEM, LAND GRADING, WATER SYSTEM, POWER  
SYSTEM LAYOUT, FIBER OPTIC LAYOUT**



PHILIPPINE JAPAN INITIATIVE FOR CGC INC.

DRAFT FINAL

# INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)

PHASE 1

R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)

## DRAWINGS

July 2020

**TEDDY MASANORI**  
PROJECT MANAGER, NK-PKII

**RYAN PAUL S. GALURA**  
OIC, PMD CLARK PROJECTS, BCDA

**JOSHUA M. BINGCANG**  
SVP, CONVERSION AND DEVELOPMENT GROUP, BCDA

**NIPPON KOEI**  
NIPPON KOEI CO.,LTD.

  
**PHILKOEI INTERNATIONAL, INC.**  
CONSULTANTS PLANNERS ENGINEERS



**BCDA**  
Bases Conversion and  
Development Authority





# ELECTRICAL SYSTEM

**INFRASTRUCTURE DESIGN OF NEW CLARK CITY  
ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)  
PHASE 1  
R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)  
LIST OF DRAWINGS**

DRAWING TITLE	DRAWING NO.	SHEET NO.
<b>ELECTRICAL SYSTEM</b>		
<b>STREET LIGHTING</b>		
ELECTRICAL DRAWING INDEX	PH1-PS-01	1 OF 27
ROAD P1-R1 LIGHTING / CABLE ROUTING PLAN (PACKAGE 1) 1 OF 2	PH1-PS-02	2 OF 27
ROAD P1-R1 LIGHTING / CABLE ROUTING PLAN (PACKAGE 1) 2 OF 2	PH1-PS-03	3 OF 27
ROAD P1-R2 LIGHTING / CABLE ROUTING PLAN (PACKAGE 1)	PH1-PS-04	4 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 0+000 - STA. 1+080	PH1-PS-05	5 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 1+080 - STA. 1+800	PH1-PS-06	6 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 1+800 - STA. 2+560	PH1-PS-07	7 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 2+560 - STA. 3+320	PH1-PS-08	8 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 3+320 - STA. 4+460	PH1-PS-09	9 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 4+460 - STA. 5+220	PH1-PS-10	10 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 5+220 - STA. 6+340	PH1-PS-11	11 OF 27
ROAD P1-R1 LIGHTING LAYOUT STA. 6+340 - STA. 6+600	PH1-PS-12	12 OF 27
ROAD P1-R2 LIGHTING LAYOUT STA. 0+000 - STA. 0+760	PH1-PS-13	13 OF 27
ROAD P1-R2 LIGHTING LAYOUT STA. 0+760 - STA. 1+900	PH1-PS-14	14 OF 27
ROAD P1-R2 LIGHTING LAYOUT STA. 1+900 - STA. 2+175.24	PH1-PS-15	15 OF 27
ROAD P1-R1 & R2 LIGHTING STATIONING NUMBER	PH1-PS-16	16 OF 27
ROAD P1-R1 & R2 LIGHTING STATIONING NUMBER	PH1-PS-17	17 OF 27
ROAD P1-R1 & R2 LIGHTING STATIONING NUMBER	PH1-PS-18	18 OF 27
ROAD P1-R1 & R2 HANDHOLE STATIONING NUMBER	PH1-PS-19	19 OF 27
(TYPICAL FOR 39M, 41.5M AND 50M ROW) 6M LIGHTING ARM POLE FOUNDATION	PH1-PS-20	20 OF 27
10M LIGHTING ARM POLE FOUNDATION / HANDHOLE & DUCTBANK DETAILS	PH1-PS-21	21 OF 27
TYPICAL CROSS SECTION OF ELECTRICAL (39M ROW & 41.5M ROW)	PH1-PS-22	22 OF 27
TYPICAL CROSS SECTION OF ELECTRICAL (50M ROW)	PH1-PS-23	23 OF 27
6M & 10M DOUBLE ARM POLE AND 10M SINGLE ARM POLE (TYPICAL)	PH1-PS-24	24 OF 27
SINGLE LINE DIAGRAM & PANEL BOARD LOAD SCHEDULE (LDP-1)	PH1-PS-25	25 OF 27
SINGLE LINE DIAGRAM & PANEL BOARD LOAD SCHEDULE (LDP-2 & LDP-3)	PH1-PS-26	26 OF 27
ROAD LIGHTING CONTROLLER SYSTEM	PH1-PS-27	27 OF 27
<b>TRAFFIC SIGNALIZATION (TS)</b>		
TRAFFIC SIGNALIZATION DRAWING INDEX	PH1-TS-01	1 OF 6
ROAD P1-R2 TRAFFIC SIGNAL LIGHT LOCATION PLAN	PH1-TS-02	2 OF 6
PH1-RD2 INTERSECTION-11 (STA.0+000) LIGHTING AND TRAFFIC SIGNAL LAYOUT	PH1-TS-03	3 OF 6
PH1-RD2 INTERSECTION-26 (STA.0+820) LIGHTING AND TRAFFIC SIGNAL LAYOUT	PH1-TS-04	4 OF 6
PH1-RD1 INTERSECTION-52 (STA.2+180) LIGHTING AND TRAFFIC SIGNAL LAYOUT	PH1-TS-05	5 OF 6
TRAFFIC SIGNAL LIGHT, PEDESTRIAN LIGHT AND FOOTING DETAILS	PH1-TS-06	6 OF 6
<b>STREET LANDSCAPE (LS)</b>		
ROAD P1-R1 - LANDSCAPE PLAN GENERAL LAYOUT	PH1-LS-01	1 OF 9
ROAD P1-R1 LANDSCAPE PLAN STA.0+000 - STA. 1+200	PH1-LS-02	2 OF 9
ROAD P1-R1 LANDSCAPE PLAN STA.1+200 - STA. 2+400	PH1-LS-03	3 OF 9
ROAD P1-R1 LANDSCAPE PLAN STA.2+400 - STA. 3+600	PH1-LS-04	4 OF 9
ROAD P1-R1 LANDSCAPE PLAN STA.3+600 - STA. 4+800	PH1-LS-05	5 OF 9
ROAD P1-R1 LANDSCAPE PLAN STA.4+800 - STA. 6+000	PH1-LS-06	6 OF 9
ROAD P1-R1 LANDSCAPE PLAN STA.6+000 - STA. 6+430.00	PH1-LS-07	7 OF 9
ROAD P1-R2 LANDSCAPE PLAN STA.0+000 - STA. 1+200	PH1-LS-08	8 OF 9

DRAWING TITLE	DRAWING NO.	SHEET NO.
ROAD P1-R2 LANDSCAPE PLAN STA.1+200 - STA. 2+499.39	PH1-LS-09	9 OF 9
<b>GRADING (GR)</b>		
GRADING PLAN - GENERAL LAYOUT	PH1-GR-01	1 OF 18
GRADING PLAN - P1R1 STA. 0+000 to 1+200	PH1-GR-02	2 OF 18
GRADING PLAN - P1R1 STA. 1+200 to 2+400	PH1-GR-03	3 OF 18
GRADING PLAN - P1R1 STA. 2+400 to 3+600	PH1-GR-04	4 OF 18
GRADING PLAN - P1R1 STA. 3+600 to 4+800	PH1-GR-05	5 OF 18
GRADING PLAN - P1R1 STA. 4+800 to 6+000	PH1-GR-06	6 OF 18
GRADING PLAN - P1R1 STA. 6+000 to 6+600	PH1-GR-07	7 OF 18
GRADING PLAN - P1R2 STA. 0+000 to 1+200	PH1-GR-08	8 OF 18
GRADING PLAN - P1R2 STA. 1+200 to 2+220	PH1-GR-09	9 OF 18
<b>EARTHWORK PLAN - GENERAL LAYOUT</b>	PH1-GR-10	10 OF 18
EARTHWORK PLAN - P1R1 STA. 0+000 to 1+200	PH1-GR-11	11 OF 18
EARTHWORK PLAN - P1R1 STA. 1+200 to 2+400	PH1-GR-12	12 OF 18
EARTHWORK PLAN - P1R1 STA. 2+400 to 3+600	PH1-GR-13	13 OF 18
EARTHWORK PLAN - P1R1 STA. 3+600 to 4+800	PH1-GR-14	14 OF 18
EARTHWORK PLAN - P1R1 STA. 4+800 to 6+000	PH1-GR-15	15 OF 18
EARTHWORK PLAN - P1R1 STA. 6+000 to 6+600	PH1-GR-16	16 OF 18
EARTHWORK PLAN - P1R2 STA. 0+000 to 1+200	PH1-GR-17	17 OF 18
EARTHWORK PLAN - P1R2 STA. 1+200 to 2+220	PH1-GR-18	18 OF 18
<b>UTILITIES</b>		
<b>WATER SYSTEM (WS)</b>		
P1-R1 WATERLINE STA. 0+000 - STA. 1+200	PH1-WS-01	1 OF 8
P1-R1 WATERLINE STA. 1+200 - STA. 2+400	PH1-WS-02	2 OF 8
P1-R1 WATERLINE STA. 2+400 - STA. 3+600	PH1-WS-03	3 OF 8
P1-R1 WATERLINE STA. 3+600 - STA. 4+800	PH1-WS-04	4 OF 8
P1-R1 WATERLINE STA. 4+800 - STA. 6+000	PH1-WS-05	5 OF 8
P1-R1 WATERLINE STA. 6+000 - STA. 6+600	PH1-WS-06	6 OF 8
P1-R2 WATERLINE STA. 0+000 - STA. 1+200	PH1-WS-07	7 OF 8
P1-R2 WATERLINE STA. 1+200 - STA. 2+200	PH1-WS-08	8 OF 8
<b>POWER SUPPLY SYSTEM (PL)</b>		
POWER SUPPLY SYSTEM DRAWING INDEX	PH1-PL-01	1 OF 14
13.8KV DISTRIBUTION LAYOUT PLAN POWER SUPPLY SYSTEM	PH1-PL-02	2 OF 14
LDP-1, LDP-2 AND LDP-3 POWER DISTRIBUTION LOCATION PLAN	PH1-PL-03	3 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 0+000 - STA. 1+080	PH1-PL-04	4 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 1+080 - STA. 1+800	PH1-PL-05	5 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 1+800 - STA. 2+560	PH1-PL-06	6 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 2+560 - STA. 3+320	PH1-PL-07	7 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 3+320 - STA. 4+460	PH1-PL-08	8 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 4+460 - STA. 5+220	PH1-PL-09	9 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 5+220 - STA. 6+340	PH1-PL-10	10 OF 14
ROAD P1-R1 POWER DISTRIBUTION LAYOUT STA. 6+340 - STA. 6+600	PH1-PL-11	11 OF 14
ROAD P1-R2 POWER DISTRIBUTION LAYOUT STA. 0+000 - STA. 0+760	PH1-PL-12	12 OF 14
ROAD P1-R2 POWER DISTRIBUTION LAYOUT STA. 0+760 - STA. 1+900	PH1-PL-13	13 OF 14
ROAD P1-R2 POWER DISTRIBUTION LAYOUT STA. 1+900 - STA. 2+175.24	PH1-PL-14	14 OF 14

DRAWING TITLE	DRAWING NO.	SHEET NO.
<b>FIBER OPTIC LAYOUT</b>		
FIBER OPTIC DRAWING INDEX	PH1-FOC-01	
GENERAL LAYOUT PLAN, CONDUIT & MANHOLE LAYOUT FOR COMMUNICATION CABLING (PHASING) INFORMATION GEN& COMMUNICATION SYSTEM	PH1-FOC-02	
ROAD P1-R1 FIBER OPTIC LAYOUT STA.0+000 - STA. 1+080	PH1-FOC-03	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 1+080 - STA. 1+800	PH1-FOC-04	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 1+800 - STA. 2+560	PH1-FOC-05	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 2+560 - STA. 3+320	PH1-FOC-06	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 3+320 - STA. 4+460	PH1-FOC-07	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 4+460 - STA. 5+220	PH1-FOC-08	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 5+220 - STA. 6+400	PH1-FOC-09	
ROAD P1-R1 FIBER OPTIC LAYOUT STA. 6+360 - STA. 6+600	PH1-FOC-10	
ROAD P1-R2 FIBER OPTIC LAYOUT STA. 0+000 - STA. 0+760	PH1-FOC-11	
ROAD P1-R2 FIBER OPTIC LAYOUT STA. 0+760 - STA. 1+900	PH1-FOC-12	
ROAD P1-R2 FIBER OPTIC LAYOUT STA. 1+900 - STA. 2+175.24	PH1-FOC-13	
ROAD P1-R1 & R2 CCTV & MANHOLE STATIONING NUMBER	PH1-FOC-14	
SERVICE BOC, HANDHOLE AND PULL BOX DETAILS	PH1-FOC-15	
MISCELLANEOUS DETAILS	PH1-FOC-16	

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>MARICEL O. MAGLALANG</b> HIGHWAY ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</b>	<b>LIST OF DRAWINGS</b>	PH1-U-01	DRAFT FINAL SHEET NO. 1 OF 1
		CHECKED BY <b>DANILO L. LIZARDO</b> CO-TEAM LEADER DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:						



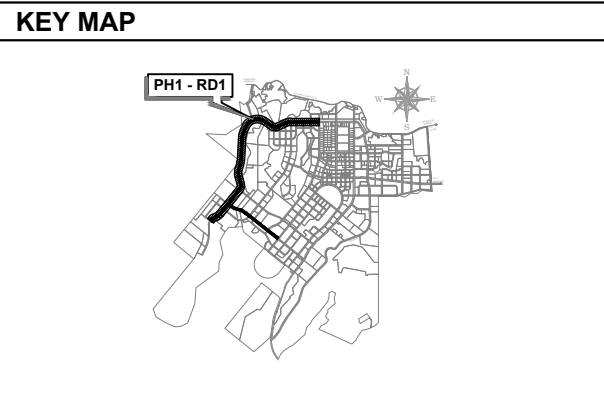
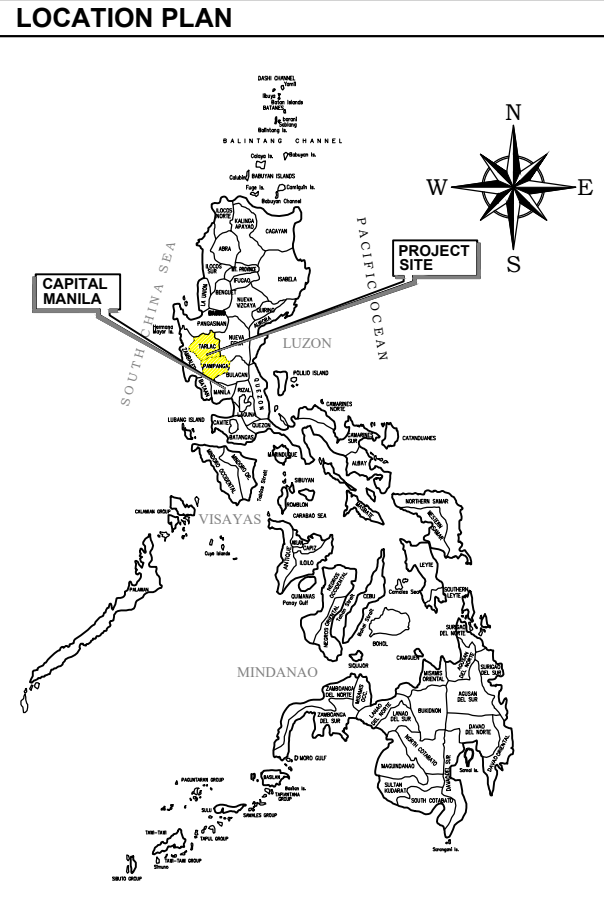
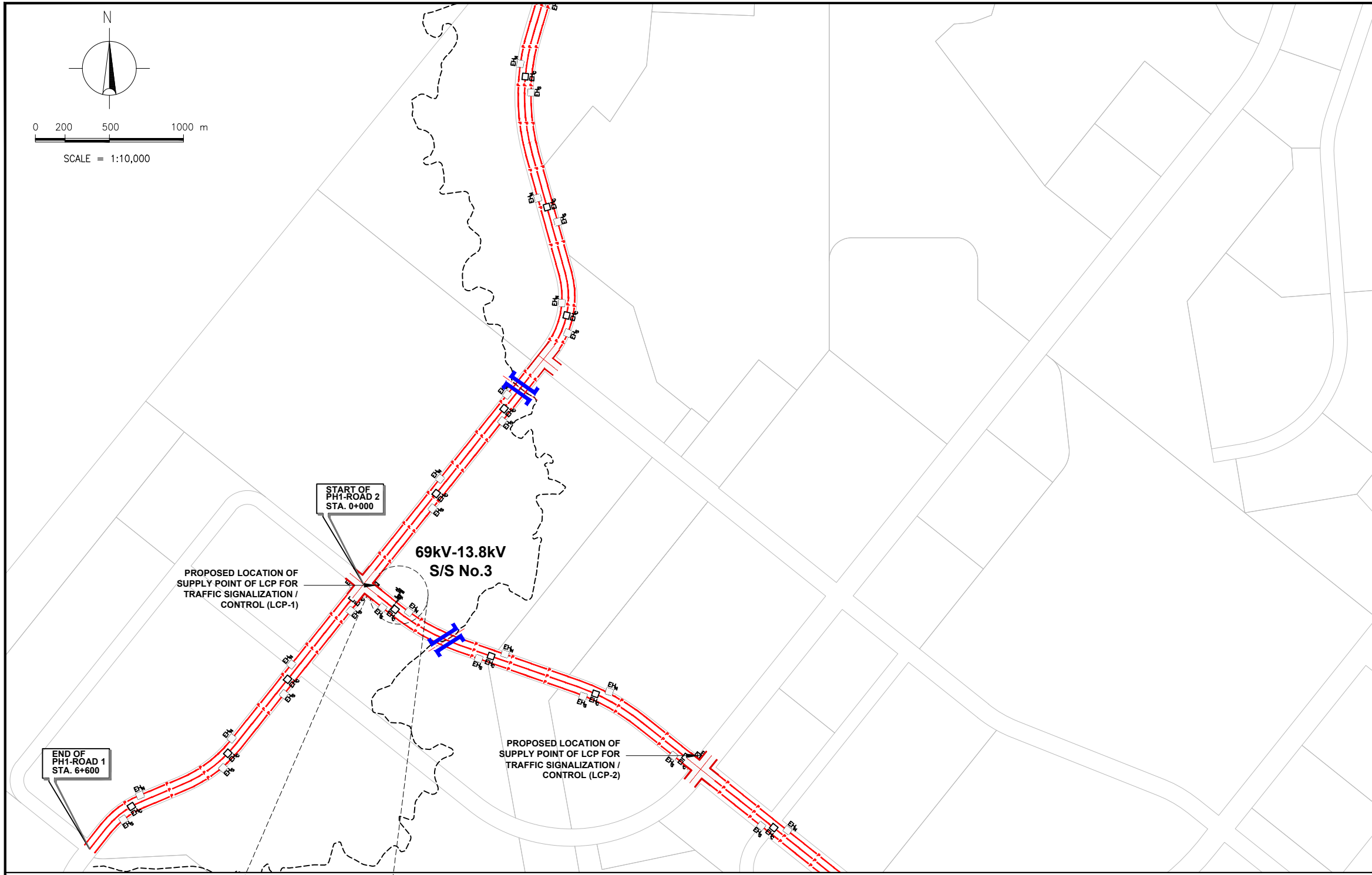
# STREET LIGHTING

DWG No.	SHEET CONTENT	SHEET NO.
PH1-PS-01	ELECTRICAL SYSTEM DRAWING INDEX	1 OF 27
PH1-PS-02	ROAD 1 LIGHTING / CABLE ROUTING PLAN 1 OF 2	2 OF 27
PH1-PS-03	ROAD 1 LIGHTING / CABLE ROUTING PLAN 2 OF 2	3 OF 27
PH1-PS-04	ROAD 2 LIGHTING / CABLE ROUTING PLAN	4 OF 27
PH1-PS-05	ROAD 1 LIGHTING LAYOUT STA. 0+000 - STA. 1+080	5 OF 27
PH1-PS-06	ROAD 1 LIGHTING LAYOUT STA. 1+080 - STA. 1+800	6 OF 27
PH1-PS-07	ROAD 1 LIGHTING LAYOUT STA. 1+800 - STA. 2+560	7 OF 27
PH1-PS-08	ROAD 1 LIGHTING LAYOUT STA. 2+560 - STA. 3+320	8 OF 27
PH1-PS-09	ROAD 1 LIGHTING LAYOUT STA. 3+320 - STA. 4+460	9 OF 27
PH1-PS-10	ROAD 1 LIGHTING LAYOUT STA. 4+460 - STA. 5+220	10 OF 27
PH1-PS-11	ROAD 1 LIGHTING LAYOUT STA. 5+220 - STA. 6+340	11 OF 27
PH1-PS-12	ROAD 1 LIGHTING LAYOUT STA. 6+340 - STA. 6+600	12 OF 27
PH1-PS-13	ROAD 2 LIGHTING LAYOUT STA. 0+000 - STA. 0+760	13 OF 27
PH1-PS-14	ROAD 2 LIGHTING LAYOUT STA. 0+760 - STA. 1+900	14 OF 27
PH1-PS-15	ROAD 2 LIGHTING LAYOUT STA. 1+900 - STA. 2+175.24	15 OF 27
PH1-PS-16	ROAD 1 & ROAD 2 LIGHTING STATIONING NUMBER	16 OF 27
PH1-PS-17	ROAD 1 & ROAD 2 LIGHTING STATIONING NUMBER	17 OF 27
PH1-PS-18	ROAD 1 & ROAD 2 LIGHTING STATIONING NUMBER	18 OF 27
PH1-PS-19	ROAD 1 & ROAD 2 HANDHOLE STATIONING NUMBER	19 OF 27
PH1-PS-20	(TYPICAL FOR 39M, 41.5M AND 50M ROW) 6M LIGHTING ARM POLE FOUNDATION	20 OF 27
PH1-PS-21	10M LIGHTING ARM POLE FOUNDATION / HANDHOLE & DUCTBANK DETAILS	21 OF 27
PH1-PS-22	TYPICAL CROSS SECTION OF ELECTRICAL (39M ROW & 41.5M ROW)	22 OF 27
PH1-PS-23	TYPICAL CROSS SECTION OF ELECTRICAL (50M ROW)	23 OF 27
PH1-PS-24	6M & 10M DOUBLE ARM POLE AND 10M SINGLE ARM POLE (TYPICAL)	24 OF 27
PH1-PS-25	SINGLE LINE DIAGRAM & PANEL BOARD LOAD SCHEDULE (LDP-1)	25 OF 27
PH1-PS-26	SINGLE LINE DIAGRAM & PANEL BOARD LOAD SCHEDULE (LDP-2 & LDP-3)	26 OF 27
PH1-PS-27	ROAD LIGHTING CONTROLLER SYSTEM	27 OF 27

**1** ELECTRICAL SYSTEM DRAWING INDEX  
PH1-PS-01 NOT TO SCALE

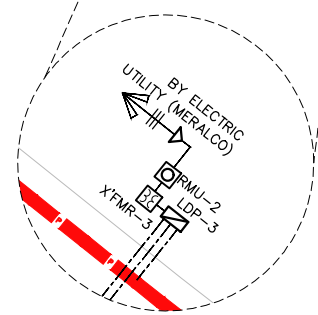
CONSULTANTS		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> Board, Commission and Government Authority RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> DIP, PMD CLARK PROJECTS DATE: _____	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>ELECTRICAL SYSTEM DRAWING INDEX</b>	SCALE AS SHOWN DRAWING NO. PH1-PS-01	DRAWING STATUS DRAFT FINAL SHEET NO. 1 OF 27
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____								





**LEGENDS AND SYMBOLS**

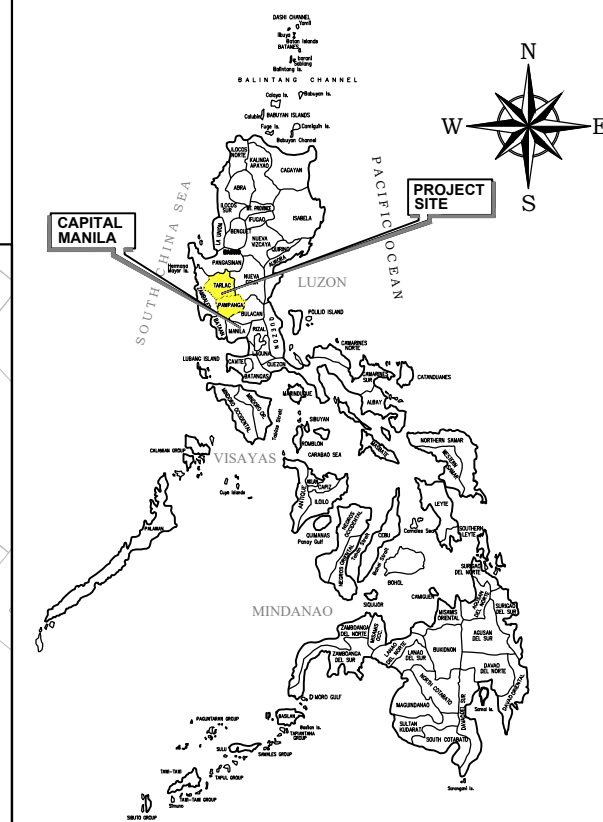
- LV LIGHTING POWER CABLE U/G ROUTE
- 69KV - 13.8KV SUBSTATION
- 13.89KV RMU OUTDOOR TYPE
- LIGHTING DISTRIBUTION PANEL (LDP)
- XFMR TRANSFORMER
- UTILITY BRIDGE
- RIVER LINES
- INTERSECTION
- ELECTRICAL HANDHOLE @ CENTER ROAD
- ELECTRICAL HANDHOLE @ NORTH SIDE
- ELECTRICAL HANDHOLE @ SOUTH SIDE
- LOCAL CONTROL PANEL FOR TRAFFIC SIGNALIZATION / CONTROL



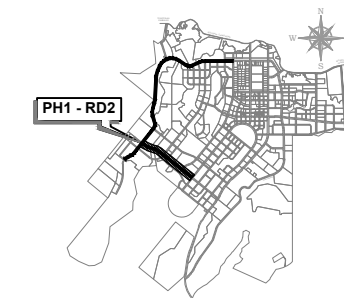
**1** ROAD 1 LIGHTING / CABLE ROUTING PLAN (2 OF 2)  
 PH1-PS-03 SCALE 1:5

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>DESIGNED BY</b> <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ <b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>SUBMITTED BY</b> <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> BUREAU OF CONSTRUCTION AND DEVELOPMENT ADMINISTRATION <b>RECOMMENDING APPROVAL</b> <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ <b>APPROVED BY</b> <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>PROJECT TITLE</b> <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>SHEET CONTENT</b> <b>ROAD 1 LIGHTING / CABLE ROUTING PLAN (2 OF 2)</b>	<b>SCALE</b> AS SHOWN DRAWING NO. PH1-PS-03	<b>DRAWING STATUS</b> DRAFT FINAL SHEET NO. 3 OF 27
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**LOCATION PLAN**

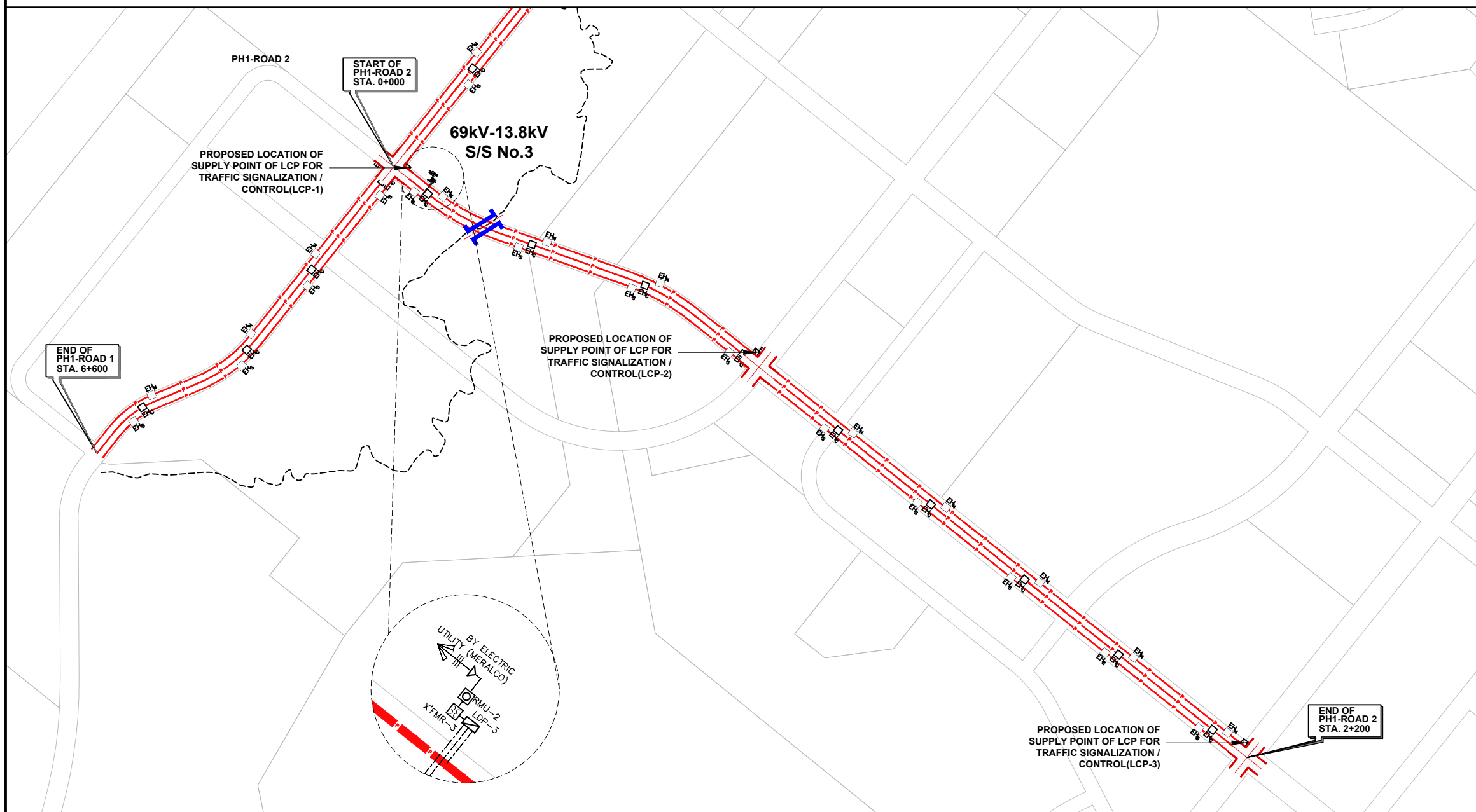
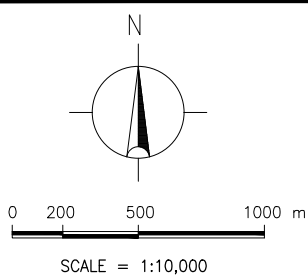


**KEY MAP**



**LEGENDS AND SYMBOLS**

- LV LIGHTING POWER CABLE U/G ROUTE
- 69KV - 13.8KV SUBSTATION
- 13.89KV RMU OUTDOOR TYPE
- LIGHTING DISTRIBUTION PANEL (LDP)
- XFMR TRANSFORMER
- UTILITY BRIDGE
- RIVER LINES
- INTERSECTION
- ELECTRICAL HANDHOLE @ CENTER ROAD
- ELECTRICAL HANDHOLE @ NORTH SIDE
- ELECTRICAL HANDHOLE @ SOUTH SIDE
- LOCAL CONTROL PANEL FOR TRAFFIC SIGNALIZATION / CONTROL



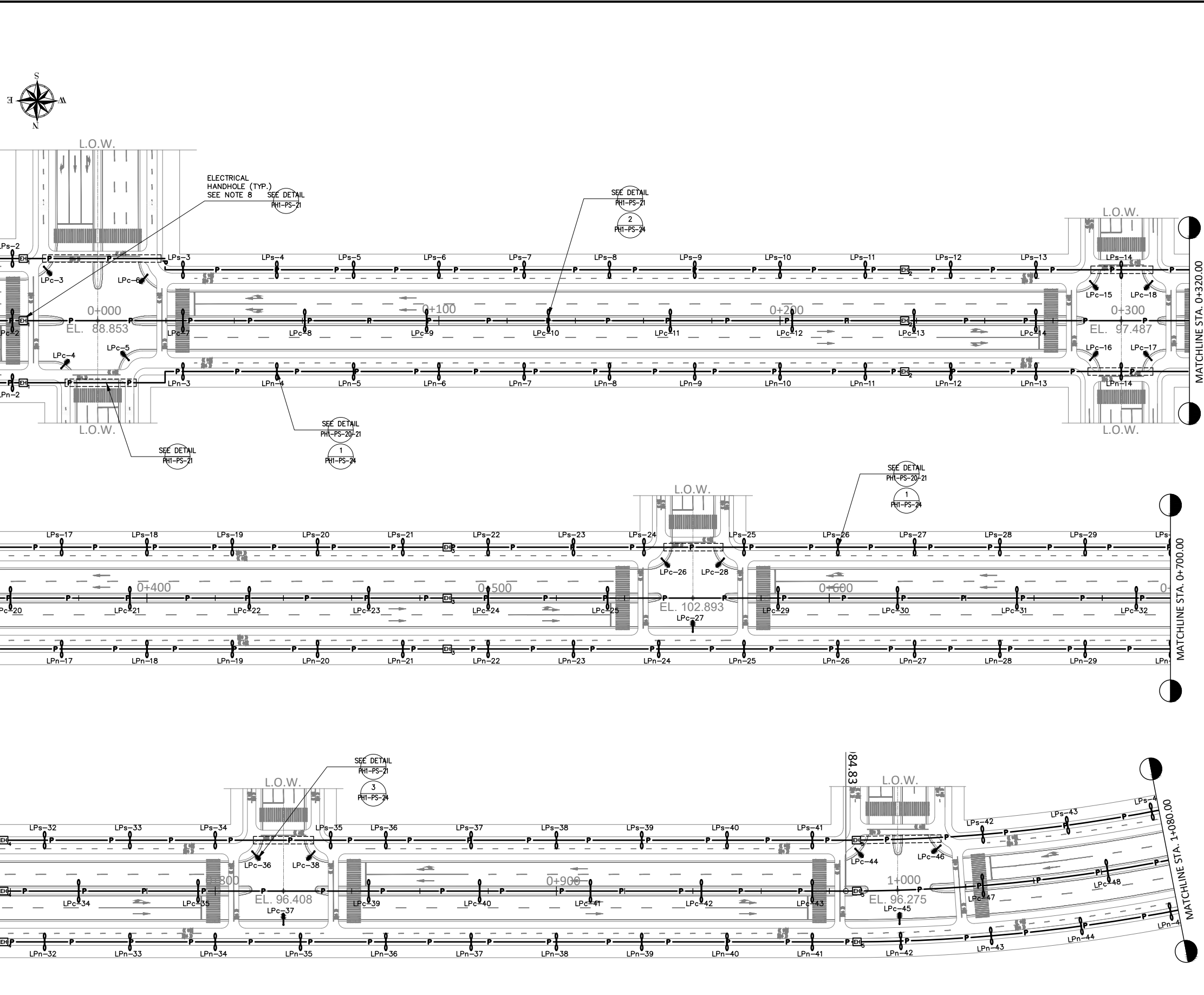
**1** ROAD 2 LIGHTING / CABLE ROUTING PLAN  
PH1-PS-04 SCALE 1:5

CONSULTANTS <b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>ROAD 1 LIGHTING / CABLE ROUTING PLAN</b>	SCALE AS SHOWN DRAWING NO. PH1-PS-04	DRAWING STATUS DRAFT FINAL SHEET NO. 4 OF 27
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KEY MAP



1 ROAD 1 LIGHTING LAYOUT (STA.0+000 - STA. 1+080)  
PHI-PS-05 SCALE 1:600

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT MATERIALS AND INSTALLATIONS SHALL BE AS PER APPROVED DRAWINGS AND IN ACCORDANCE W/ INTERNATIONAL / PEC CODES AND STANDARDS.
- CABLES THAT WILL CROSS CONCRETE ROADWAYS SHALL BE RUN INSIDE REINFORCED CONCRETE DUCTBANK.
- ROAD LIGHTING ARE TO BE REMOTELY CONTROLLED & MONITORED FROM BY CENTRAL CONTROL CENTER AND THE LATEST STATE OF THE ART INTERNET BASE NETWORK "CLOUD" ACCESS FROM MOBILE CELLPHONE, TABLET OR LAPTOP DEVICE EQUIPMENT.
- LIGHTING CABLES ARE INSTALLED INSIDE 100mm HDPE, TYPE CONDUIT AND DIRECTLY BURIED TO GROUND FROM FGL 600mm DEPTH TO TOP SURFACE OF CONDUITS. DUCT SPACER SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 3M APART ALONG THE RUN OF THE DUCT.
- CABLE TRENCH FOR LIGHTING CABLES SHALL BE PROVIDED WITH SAND BEDDING BETWEEN BELOW AND TOP PART OF BURIED CONDUIT/CABLES W/ 300mm TOTAL FILL. TOP LAYER OF SAND FILL SHALL BE PROVIDED W/ CONCRETE TILES ALONG CABLE ROUTE AND TERRA TAPE CABLE EARLY WARNING TAPE.
- THE ROADWAY LIGHTING SHALL BE DESIGNED THE FARTHEST LUMINAIRE IN THE BRANCH CIRCUIT, SHALL OPERATE WITHIN THE VOLTAGE SUPPLY LEVEL OF 230± 10% VOLTAGE DROP.
- ELECTRICAL HANDHOLE (EH) IS THE LOCATION POINT FOR SPLICING OF CABLES (CABLES JOINING) AND APPROXIMATELY TO BE INSTALLED @ 250M DISTANCE APART FROM THE OTHER HANDHOLE.
- FOR LIGHTING POLE & KM. STA. NOS. REFER TO PH1-PS-15/16/17.

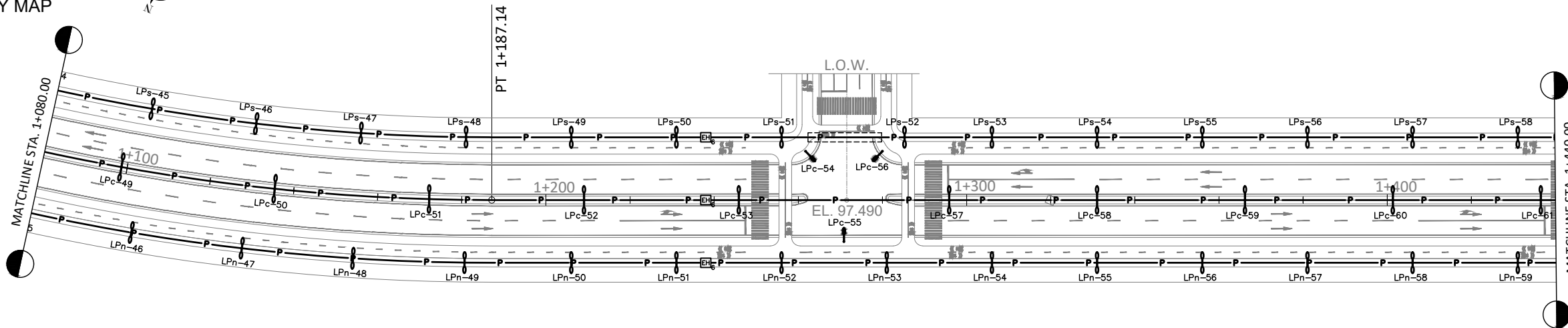
LEGENDS:

	SINGLE MAST DOUBLE ARM WITH 2x40W LIGHTING FIXTURES IN 6M HIGH LAMP POST
	SINGLE MAST SINGLE ARM WITH 1x90W LIGHTING FIXTURES IN 10M HIGH LAMP POST
	SINGLE MAST DOUBLE ARM WITH 2x90W LIGHTING FIXTURES IN 10M HIGH LAMP POST
	LIGHTING POLE LOCATED AT ROAD CENTER ISLAND
	LIGHTING POLE LOCATED AT SOUTHSIDE OF ROAD
	LIGHTING POLE LOCATED AT NORTHSIDE OF ROAD
	LV POWER CABLE IN HDPE CONDUIT DUCTS OR CONCRETE DUCT BANK FOR ROAD CROSSING
	LIGHTING DISTRIBUTION PANEL BOARD / OUTDOOR TYPE MOUNTED PAD (LOW VOLTAGE)
	OIL FILLED TRANSFORMER PAD MOUNTED, 13.8KV 400Y / 230V, 3ø, 4W
	RING MAIN UNIT 13.8KV, 3ø, MANUAL TYPE
	ELECTRICAL HANDHOLE
	LOCAL CONTROL PANEL FOR TRAFFIC/CONTROL SYSTEM
	ELECTRICAL DUCTBANK CONCRETE (FOR ROAD CROSSING)
	SOLID NEUTRAL BUS BAR
	GROUND BUS BAR

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.		CHARLES P. PANTE ELECTRICAL ENGINEER DATE:	TEDDY MASANORI PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL RYAN PAUL S. GALURA OIC, PMD CLARK PROJECTS DATE:	APPROVED BY JOSHUA M. BINGCANG SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 LIGHTING LAYOUT STA.0+000 - STA. 1+080	AS SHOWN DRAFT FINAL DRAWING NO. PH1-PS-05 SHEET NO. 5 OF 27
 PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		CHECKED BY CHARLES P. PANTE CO-TEAM LEADER DATE:							

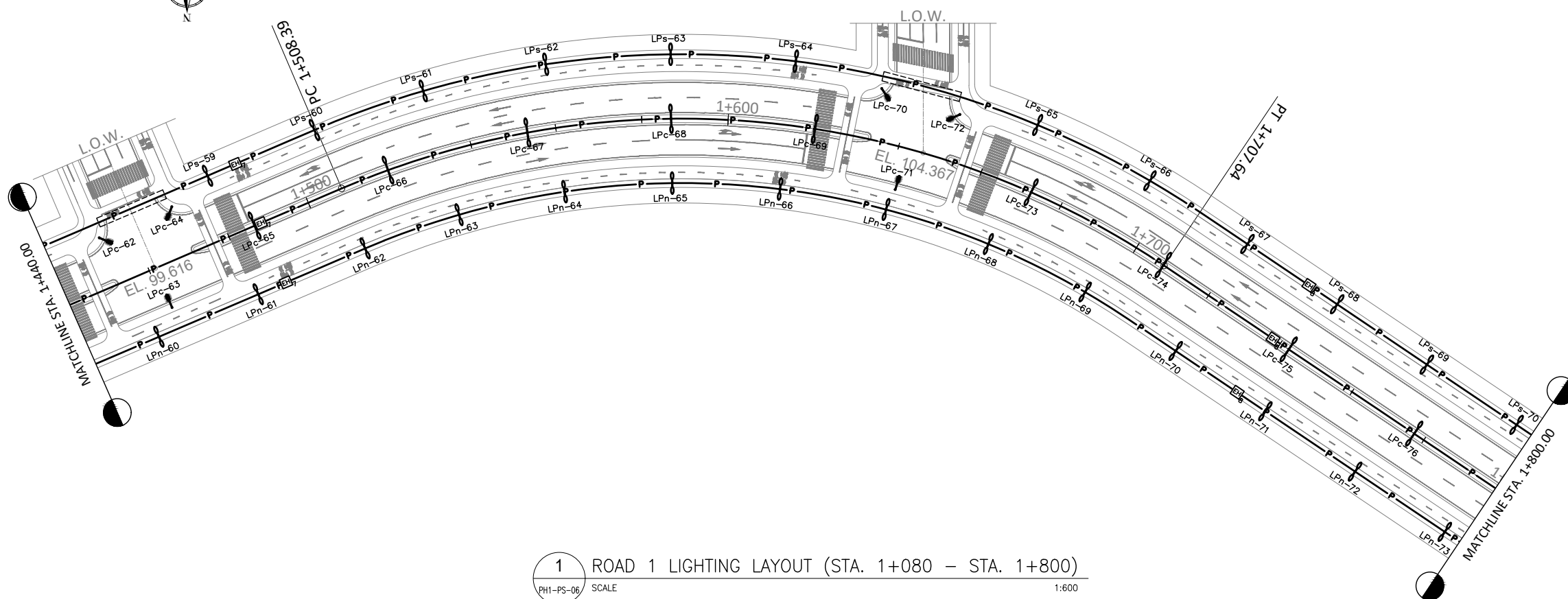


KEY MAP



NOTES

1. FOR GENERAL NOTES SEE PH1-PS-05
2. FOR LEGENDS SEE PH1-PS-05

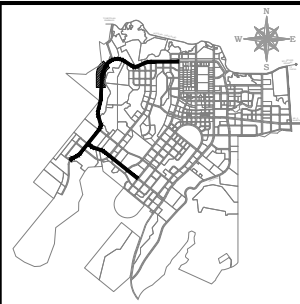


1 ROAD 1 LIGHTING LAYOUT (STA. 1+080 - STA. 1+800)  
PH1-PS-06 SCALE 1:600

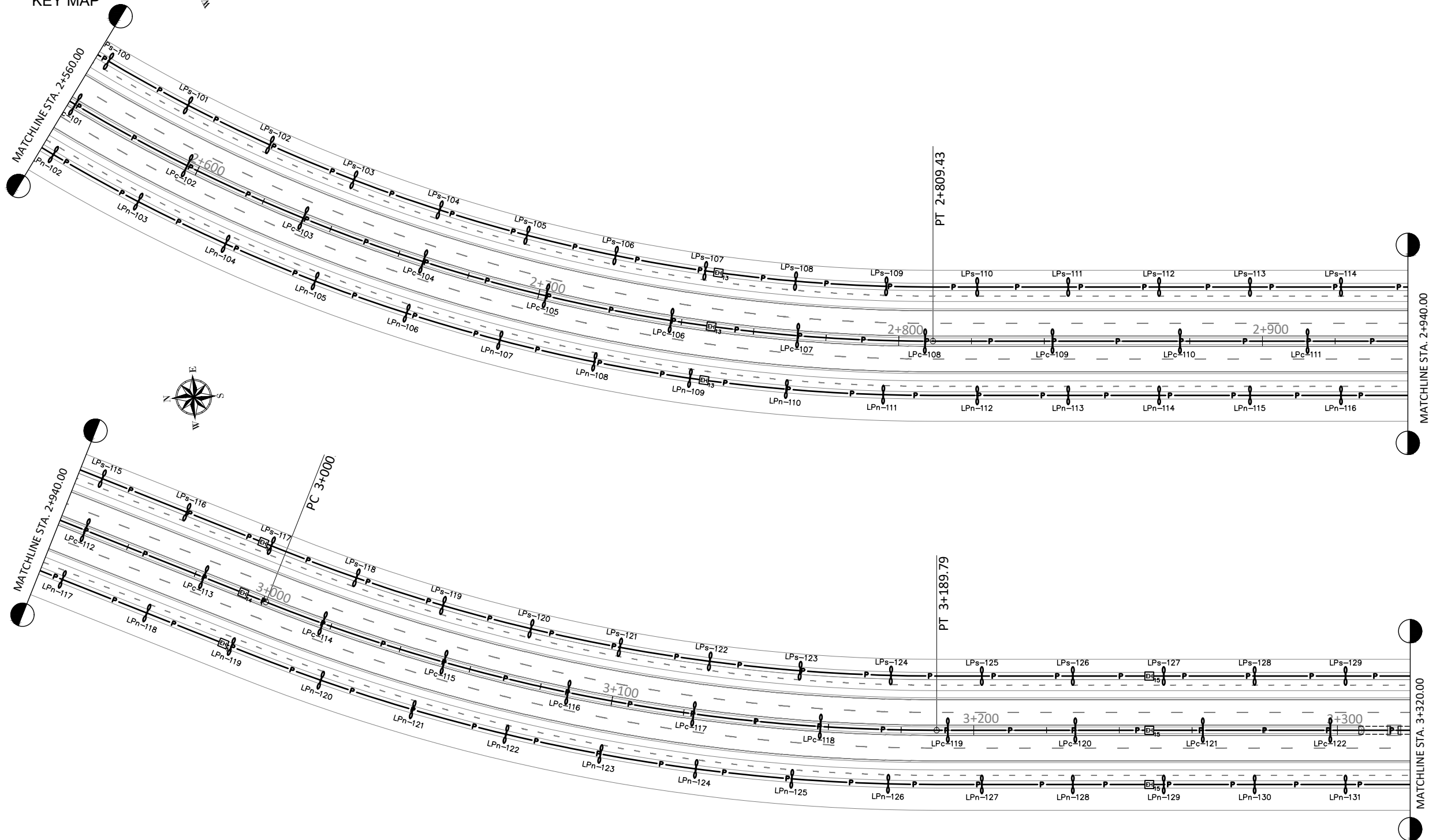
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+000) & R2 (STA. 0+000 - STA. 2+220)		ROAD 1 LIGHTING LAYOUT STA. 1+080 - STA. 1+800		AS SHOWN	DRAFT FINAL
				 DATE: _____		RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE: _____		APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____		DRAWING NO.	SHEET NO.
						PH1-PS-06		6 OF 27			







KEY MAP



NOTES

1. FOR GENERAL NOTES SEE PH1-PS-05
2. FOR LEGENDS SEE PH1-PS-05

1 ROAD 1 LIGHTING LAYOUT (STA. 2+560 - STA. 3+320)  
PH1-PS-08 SCALE 1:600

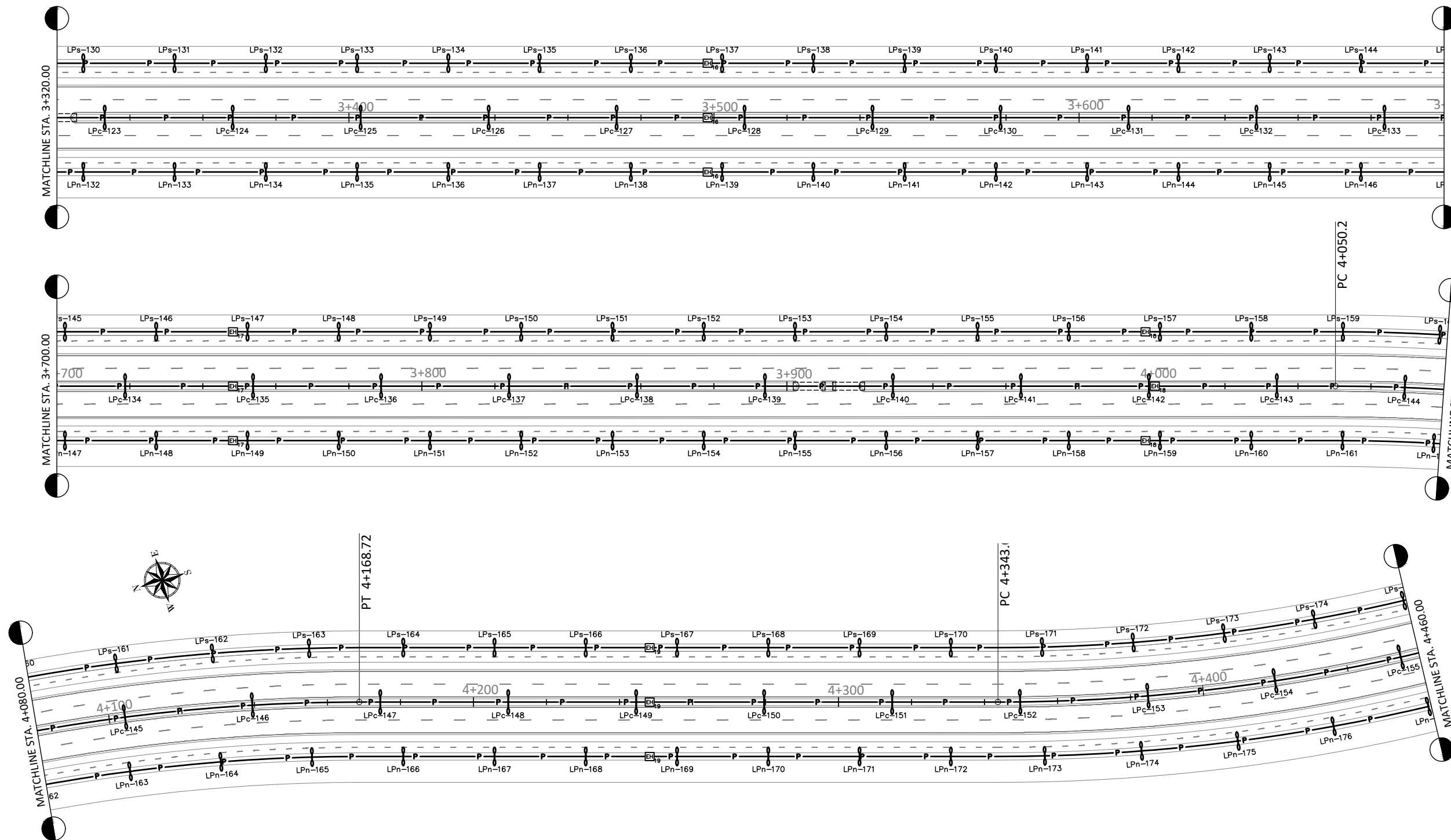
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS	
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		ROAD 1 LIGHTING LAYOUT STA. 2+560 - STA. 3+320		AS SHOWN	DRAFT FINAL
	PH1-PS-08	8 OF 27										



KEY MAP

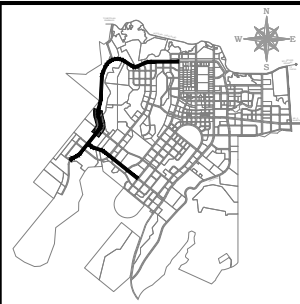
NOTES

1. FOR GENERAL NOTES SEE PH1-PS-05
2. FOR LEGENDS SEE PH1-PS-05

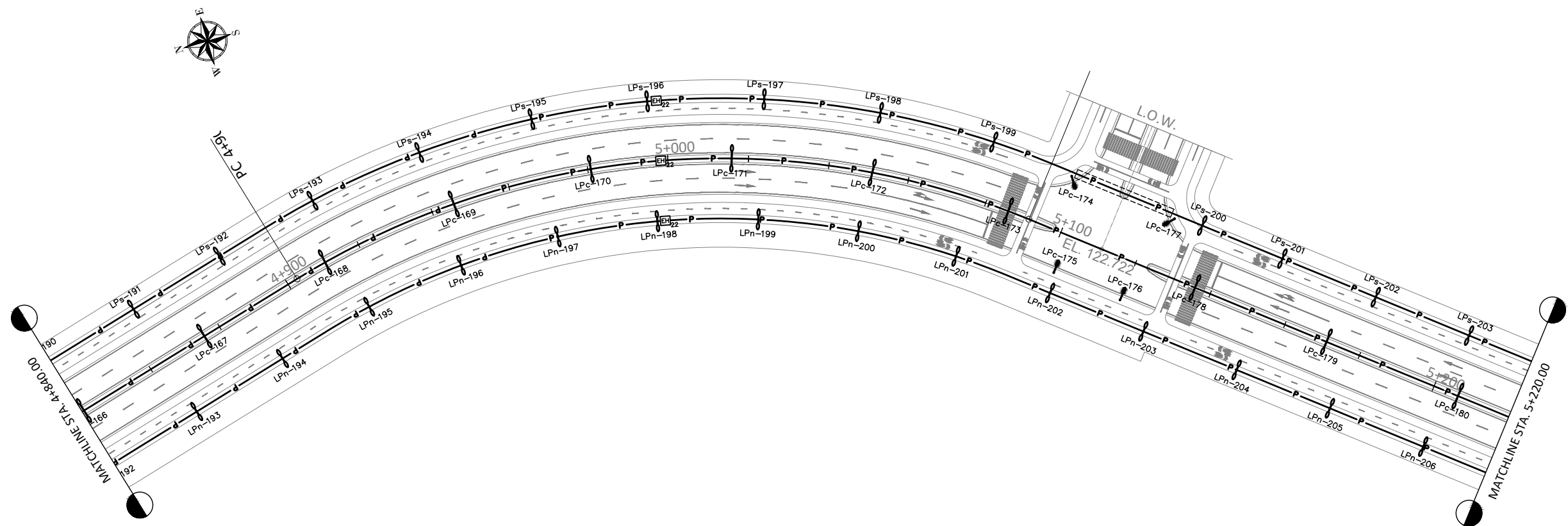
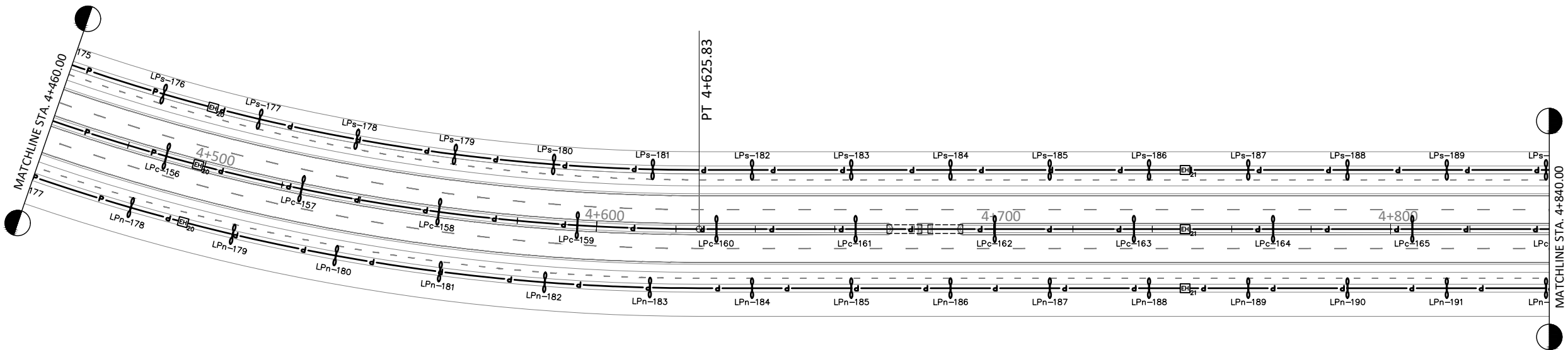


1 ROAD 1 LIGHTING LAYOUT (STA. 3+320 - STA. 4+460)  
PH1-PS-09 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	<b>BCDA</b> BUREAU OF CITY PLANNING AND DEVELOPMENT <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		<b>ROAD 1 LIGHTING LAYOUT</b> STA. 3+320 - STA. 4+460		AS SHOWN DRAWING NO. PH1-PS-09	DRAFT FINAL SHEET NO. 9 OF 27



KEY MAP



NOTES

1. FOR GENERAL NOTES SEE PH1-PS-05
2. FOR LEGENDS SEE PH1-PS-05

1 ROAD 1 LIGHTING LAYOUT (STA. 4+460 - STA. 5+220)  
PH1-PS-10 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA BAY AREA COMPREHENSIVE DEVELOPMENT AUTHORITY		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 LIGHTING LAYOUT STA. 4+460 - STA. 5+220	AS SHOWN DRAWING NO. PH1-PS-10	DRAFT FINAL SHEET NO. 10 OF 27	
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:									

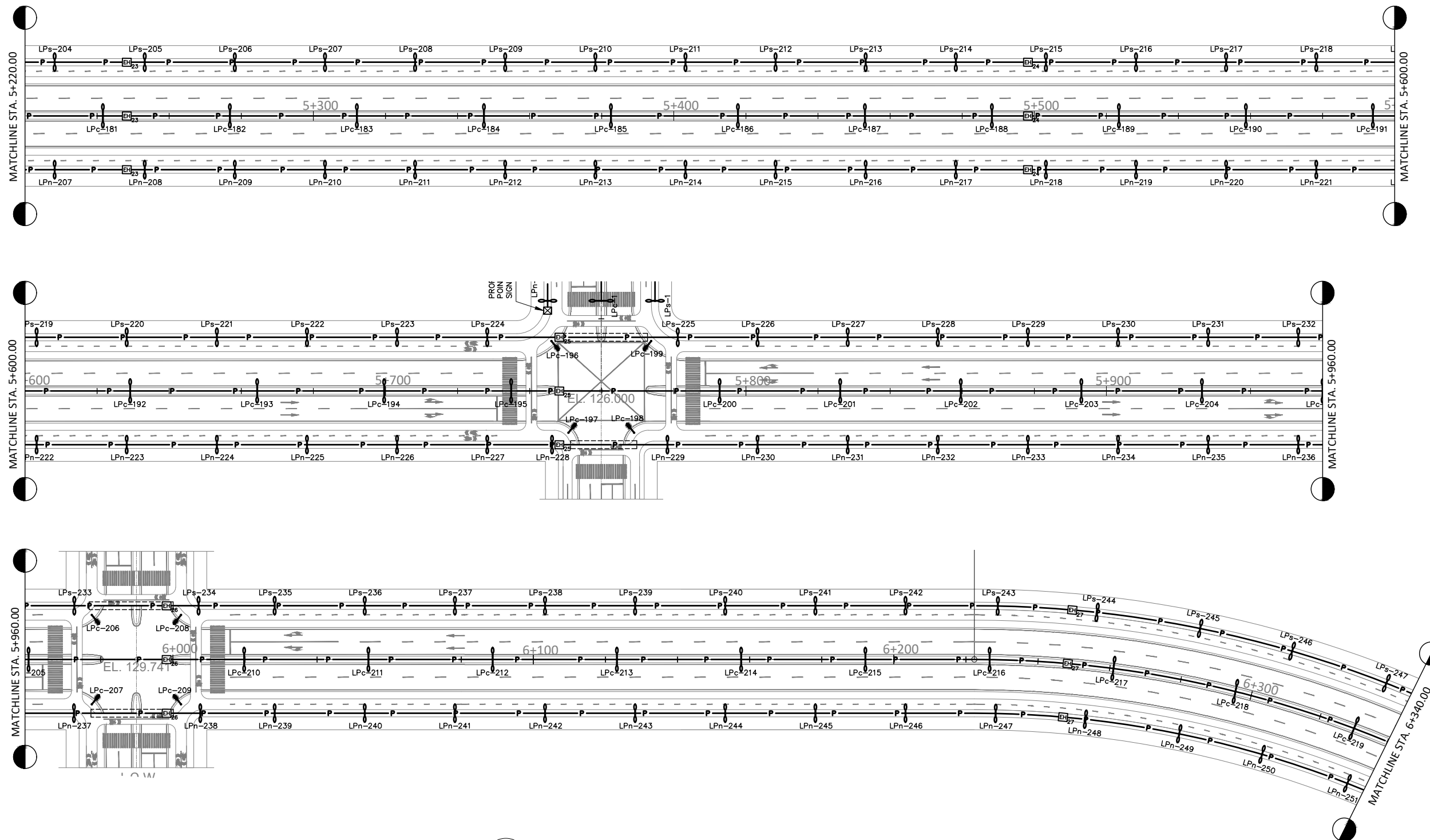


KEY MAP



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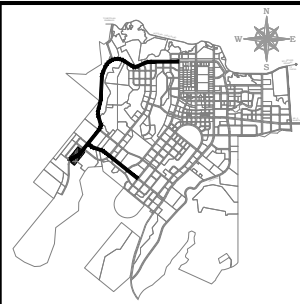
1. FOR GENERAL NOTES SEE PH1-PS-05
2. FOR LEGENDS SEE PH1-PS-05



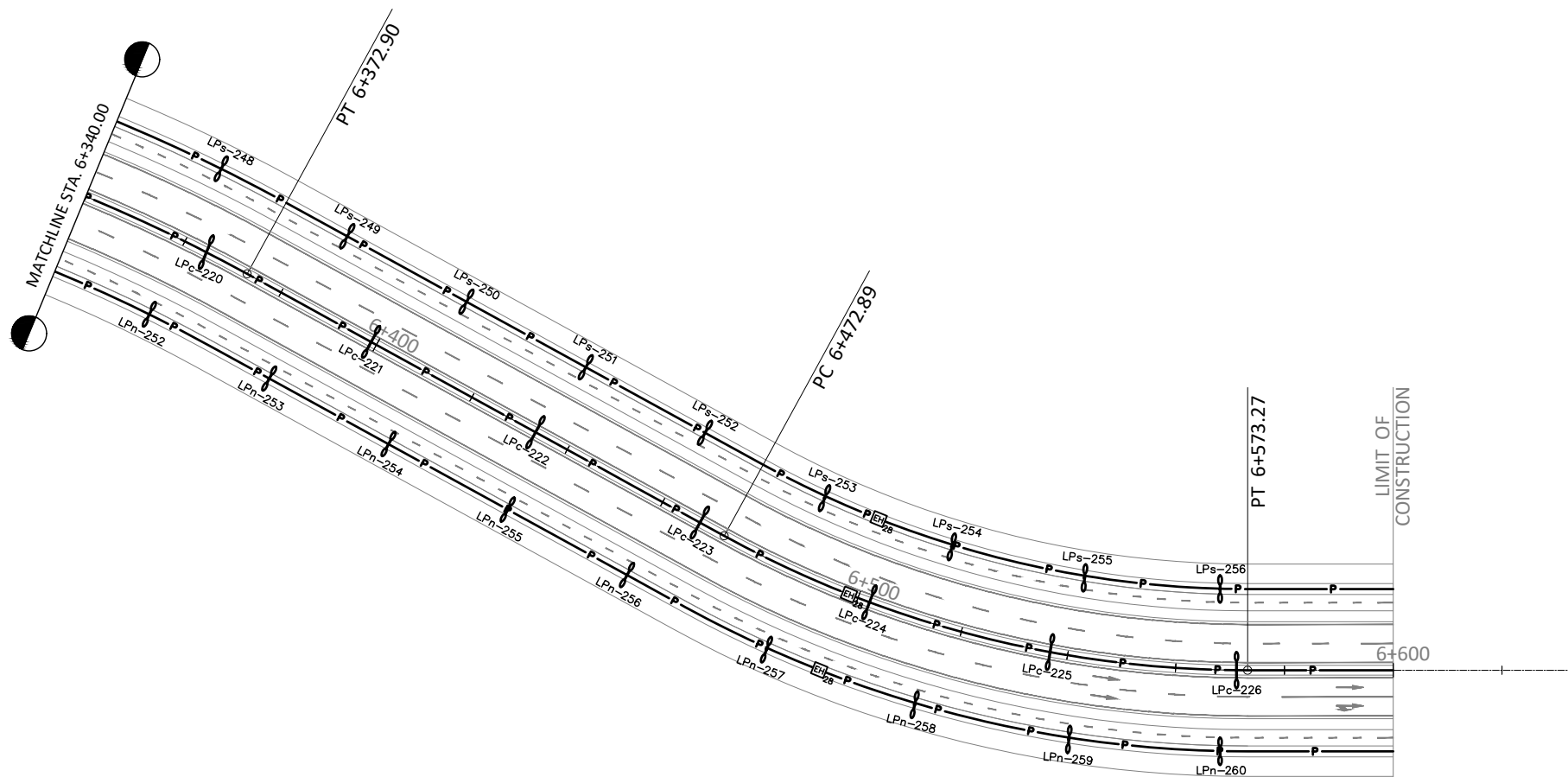
1 ROAD 1 LIGHTING LAYOUT (STA. 5+220 - STA. 6+340)  
PH1-PS-11 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. <small>CONSULTANTS PLANNERS ENGINEERS</small>		<b>CHARLES P. PANTE</b> <small>ELECTRICAL ENGINEER</small> DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> <small>CO-TEAM LEADER</small> DATE: _____	<b>TEDDY MASANORI</b> <small>PROJECT MANAGER</small> DATE: _____	PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<small>RECOMMENDING APPROVAL</small> <b>RYAN PAUL S. GALURA</b> <small>QC, PMD CLARK PROJECTS</small> DATE: _____	<small>APPROVED BY</small> <b>JOSHUA M. BINGCANG</b> <small>SVP, CONVERSION AND DEVELOPMENT GROUP</small> DATE: _____	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> <small>R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</small>	<b>ROAD 1 LIGHTING LAYOUT</b> <small>STA. 5+220 - STA. 6+340</small>	<small>AS SHOWN</small> <small>DRAFT FINAL</small>
								PH1-PS-11	11 OF 27	





KEY MAP

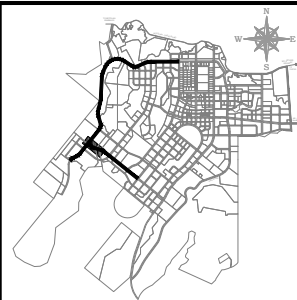


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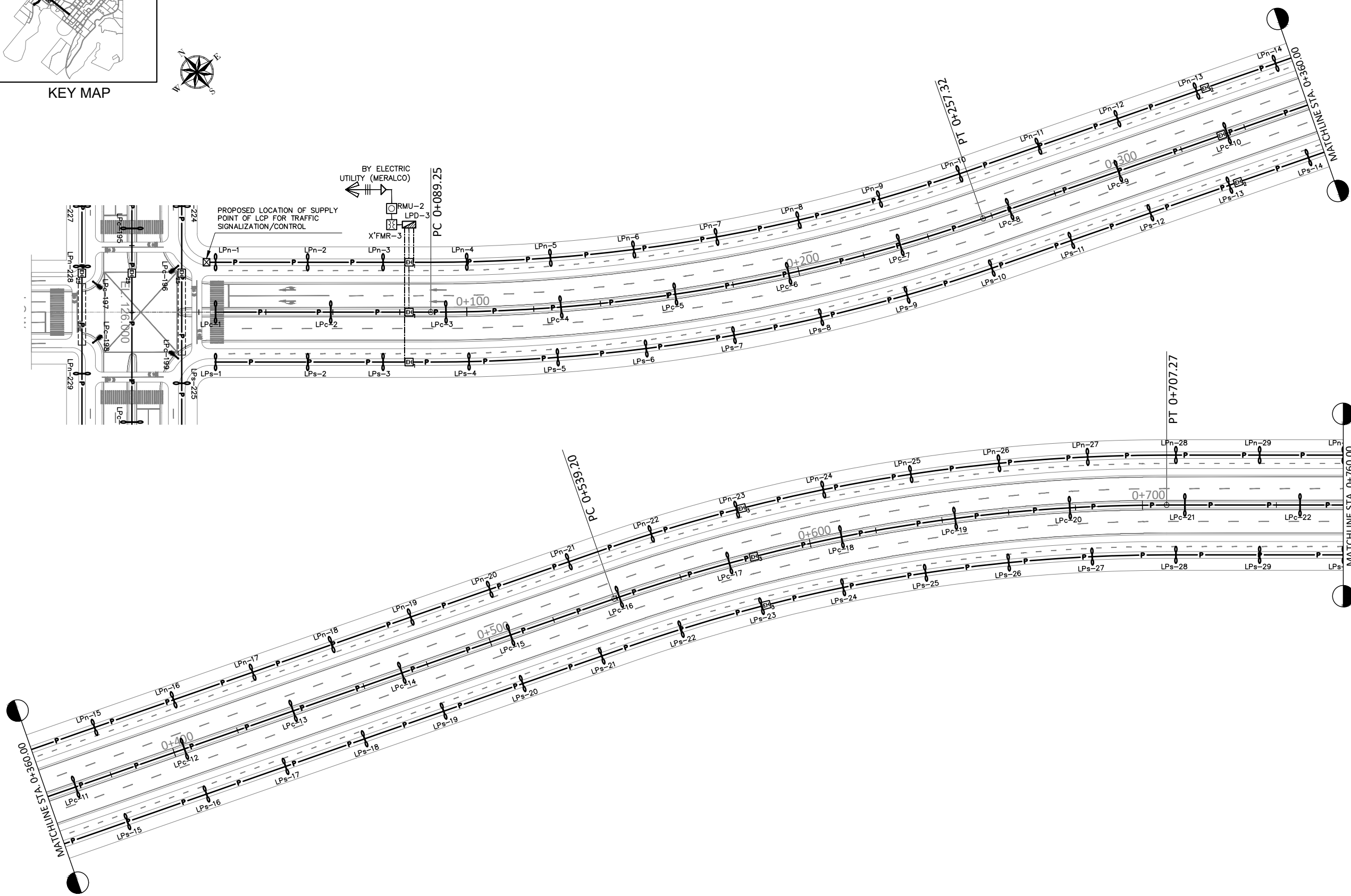
1. FOR GENERAL NOTES  
SEE PH1-PS-05
2. FOR LEGENDS  
SEE PH1-PS-05

1 ROAD 1 LIGHTING LAYOUT (STA. 6+340 - STA. 6+600)  
PH1-PS-12 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS	
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 BUREAU OF CONSTRUCTION AND DEVELOPMENT ADMINISTRATION		RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:		APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:		INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		AS SHOWN DRAFT FINAL	DRAWING NO. SHEET NO.
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		ROAD 1 LIGHTING LAYOUT STA. 6+340 - STA. 6+600		PH1-PS-12	12 OF 27				



KEY MAP



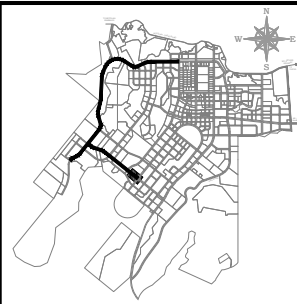
NOTES

1. FOR GENERAL NOTES  
SEE PH1-PS-05
2. FOR LEGENDS  
SEE PH1-PS-05

1 ROAD 2 LIGHTING LAYOUT (STA. 0+000 - STA. 0+760)  
PH1-PS-13 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	CHARLES P. PANTE ELECTRICAL ENGINEER DATE:	TEDDY MASANORI PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL RYAN PAUL S. GALURA OIC, PMD CLARK PROJECTS DATE:	APPROVED BY JOSHUA M. BINGCANG SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 2 LIGHTING LAYOUT STA. 0+000 - STA. 0+760	AS SHOWN DRAWING NO. PH1-PS-13	DRAFT FINAL SHEET NO. 13 OF 27
	CHECKED BY CHARLES P. PANTE CO-TEAM LEADER DATE:								



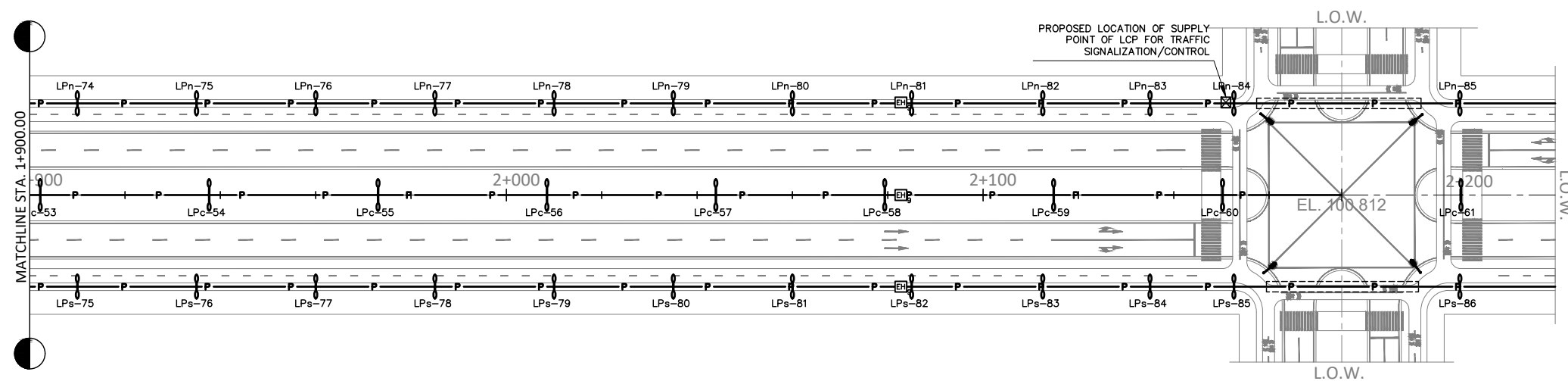


KEY MAP



NOTES

1. FOR GENERAL NOTES  
SEE PH1-PS-05
2. FOR LEGENDS  
SEE PH1-PS-05



1 ROAD 2 LIGHTING LAYOUT (STA. 1+900 - STA. 2+175.24)  
PH1-PS-15 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	CHARLES P. PANTE ELECTRICAL ENGINEER DATE:	TEDDY MASANORI PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL RYAN PAUL S. GALURA OIC, PMO CLARK PROJECTS DATE:	APPROVED BY JOSHUA M. BINGCANG SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 2 LIGHTING LAYOUT STA. 1+900 - STA. 2+175.24	AS SHOWN DRAWING NO. PH1-PS-15	DRAFT FINAL SHEET NO. 15 OF 27
	CHECKED BY CHARLES P. PANTE CO-TEAM LEADER DATE:								



LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER
LPc-1	STA.0-47.638	LPc-54	STA.1+261.725	LPc-107	STA.2+772.179	LPc-160	STA.4+630.2	LPc-213	STA.6+123.176	LPc-36	STA.1+279.43		
LPc-2	STA.0-25.019	LPc-55	STA.1+270.859	LPc-108	STA.2+807.236	LPc-161	STA.4+665.257	LPc-214	STA.6+157.64	LPc-37	STA.1+315.399		
LPc-3	STA.0-15.773	LPc-56	STA.1+279.993	LPc-109	STA.2+842.293	LPc-162	STA.4+700.314	LPc-215	STA.6+192.104	LPc-38	STA.1+351.368		
LPc-4	STA.0-10.685	LPc-57	STA.1+295.859	LPc-110	STA.2+877.35	LPc-163	STA.4+735.371	LPc-216	STA.6+226.568	LPc-39	STA.1+384.821		
LPc-5	STA.0+9.115	LPc-58	STA.1+331.017	LPc-111	STA.2+912.407	LPc-164	STA.4+770.428	LPc-217	STA.6+261.032	LPc-40	STA.1+423.306		
LPc-6	STA.0+14.577	LPc-59	STA.1+366.175	LPc-112	STA.2+947.464	LPc-165	STA.4+805.485	LPc-218	STA.6+295.496	LPc-41	STA.1+459.275		
LPc-7	STA.0+24.981	LPc-60	STA.1+401.333	LPc-113	STA.2+982.521	LPc-166	STA.4+840.542	LPc-219	STA.6+329.96	LPc-42	STA.1+495.244		
LPc-8	STA.0+60.695	LPc-61	STA.1+436.491	LPc-114	STA.3+017.578	LPc-167	STA.4+875.599	LPc-220	STA.6+364.424	LPc-43	STA.1+531.213		
LPc-9	STA.0+96.409	LPc-62	STA.1+452.357	LPc-115	STA.3+052.635	LPc-168	STA.4+910.656	LPc-221	STA.6+398.888	LPc-44	STA.1+567.182		
LPc-10	STA.0+132.124	LPc-63	STA.1+461.491	LPc-116	STA.3+087.692	LPc-169	STA.4+945.713	LPc-222	STA.6+433.352	LPc-45	STA.1+603.151		
LPc-11	STA.0+167.838	LPc-64	STA.1+470.625	LPc-117	STA.3+122.749	LPc-170	STA.4+980.77	LPc-223	STA.6+467.816	LPc-46	STA.1+639.12		
LPc-12	STA.0+203.552	LPc-65	STA.1+486.491	LPc-118	STA.3+157.806	LPc-171	STA.5+015.827	LPc-224	STA.6+502.28	LPc-47	STA.1+675.088		
LPc-13	STA.0+239.266	LPc-66	STA.1+519.921	LPc-119	STA.3+192.863	LPc-172	STA.5+050.884	LPc-225	STA.6+536.744	LPc-48	STA.1+725.088		
LPc-14	STA.0+274.981	LPc-67	STA.1+553.351	LPc-120	STA.3+227.92	LPc-173	STA.5+085.935	LPc-226	STA.6+571.208	LPc-49	STA.1+760.517		
LPc-15	STA.0+290.846	LPc-68	STA.1+586.781	LPc-121	STA.3+262.977	LPc-174	STA.5+097.164			LPc-50	STA.1+795.946		
LPc-16	STA.0+290.846	LPc-69	STA.1+620.211	LPc-122	STA.3+298.034	LPc-175	STA.5+102.162			LPc-51	STA.1+831.375		
LPc-17	STA.0+308.9	LPc-70	STA.1+633.256	LPc-123	STA.3+333.091	LPc-176	STA.5+119.944			LPc-52	STA.1+866.804		
LPc-18	STA.0+309.115	LPc-71	STA.1+641.837	LPc-124	STA.3+368.148	LPc-177	STA.5+124.789			LPc-53	STA.1+902.233		
LPc-19	STA.0+324.981	LPc-72	STA.1+651.248	LPc-125	STA.3+403.205	LPc-178	STA.5+135.935			LPc-54	STA.1+937.662		
LPc-20	STA.0+359.981	LPc-73	STA.1+672.463	LPc-126	STA.3+438.262	LPc-179	STA.5+171.168			LPc-55	STA.1+973.091		
LPc-21	STA.0+394.982	LPc-74	STA.1+707.421	LPc-127	STA.3+473.319	LPc-180	STA.5+206.399			LPc-56	STA.2+008.52		
LPc-22	STA.0+429.982	LPc-75	STA.1+742.38	LPc-128	STA.3+508.376	LPc-181	STA.5+241.631			LPc-57	STA.2+043.949		
LPc-23	STA.0+464.983	LPc-76	STA.1+777.339	LPc-129	STA.3+543.433	LPc-182	STA.5+276.863			LPc-58	STA.2+079.378		
LPc-24	STA.0+499.984	LPc-77	STA.1+812.297	LPc-130	STA.3+578.49	LPc-183	STA.5+312.095			LPc-59	STA.2+114.807		
LPc-25	STA.0+534.984	LPc-78	STA.1+847.256	LPc-131	STA.3+613.547	LPc-184	STA.5+347.327			LPc-60	STA.2+150.236		
LPc-26	STA.0+550.85	LPc-79	STA.1+882.215	LPc-132	STA.3+648.604	LPc-185	STA.5+382.559			LPc-61	STA.2+200.236		
LPc-27	STA.0+559.984	LPc-80	STA.1+917.173	LPc-133	STA.3+683.661	LPc-186	STA.5+417.791						
LPc-28	STA.0+569.118	LPc-81	STA.1+952.132	LPc-134	STA.3+718.718	LPc-187	STA.5+453.023						
LPc-29	STA.0+584.984	LPc-82	STA.1+987.091	LPc-135	STA.3+753.775	LPc-188	STA.5+488.255						
LPc-30	STA.0+619.984	LPc-83	STA.2+022.049	LPc-136	STA.3+788.832	LPc-189	STA.5+523.487						
LPc-31	STA.0+654.984	LPc-84	STA.2+057.008	LPc-137	STA.3+823.889	LPc-190	STA.5+558.719						
LPc-32	STA.0+689.984	LPc-85	STA.2+091.967	LPc-138	STA.3+858.946	LPc-191	STA.5+593.951						
LPc-33	STA.0+724.984	LPc-86	STA.2+126.925	LPc-139	STA.3+894.003	LPc-192	STA.5+629.183						
LPc-34	STA.0+759.984	LPc-87	STA.2+161.884	LPc-140	STA.3+929.06	LPc-193	STA.5+664.415						
LPc-35	STA.0+794.984	LPc-88	STA.2+196.843	LPc-141	STA.3+964.117	LPc-194	STA.5+699.647						
LPc-36	STA.0+810.85	LPc-89	STA.2+231.801	LPc-142	STA.3+999.174	LPc-195	STA.5+734.884						
LPc-37	STA.0+819.984	LPc-90	STA.2+266.76	LPc-143	STA.4+034.231	LPc-196	STA.5+746.029						
LPc-38	STA.0+829.118	LPc-91	STA.2+301.719	LPc-144	STA.4+069.288	LPc-197	STA.5+750.749						
LPc-39	STA.0+844.984	LPc-92	STA.2+336.677	LPc-145	STA.4+104.345	LPc-198	STA.5+769.018						
LPc-40	STA.0+877.483	LPc-93	STA.2+371.636	LPc-146	STA.4+139.402	LPc-199	STA.5+773.738						
LPc-41	STA.0+909.982	LPc-94	STA.2+406.595	LPc-147	STA.4+174.459	LPc-200	STA.5+792.709						
LPc-42	STA.0+942.482	LPc-95	STA.2+441.553	LPc-148	STA.4+209.516	LPc-201	STA.5+826.159						
LPc-43	STA.0+974.981	LPc-96	STA.2+451.97	LPc-149	STA.4+244.573	LPc-202	STA.5+859.61						
LPc-44	STA.0+987.661	LPc-97	STA.2+465.383	LPc-150	STA.4+279.63	LPc-203	STA.5+893.06						
LPc-45	STA.1+000.261	LPc-98	STA.2+478.566	LPc-151	STA.4+314.687	LPc-204	STA.5+926.51						
LPc-46	STA.1+013.314	LPc-99	STA.2+491.723	LPc-152	STA.4+349.744	LPc-205	STA.5+959.96						
LPc-47	STA.1+025.024	LPc-100	STA.2+526.78	LPc-153	STA.4+384.801	LPc-206	STA.5+977.495						
LPc-48	STA.1+061.83	LPc-101	STA.2+561.837	LPc-154	STA.4+419.858	LPc-207	STA.5+977.495						
LPc-49	STA.1+098.636	LPc-102	STA.2+596.894	LPc-155	STA.4+454.915	LPc-208	STA.6+002.274						
LPc-50	STA.1+135.442	LPc-103	STA.2+631.951	LPc-156	STA.4+489.972	LPc-209	STA.6+002.274						
LPc-51	STA.1+172.247	LPc-104	STA.2+667.008	LPc-157	STA.4+525.029	LPc-210	STA.6+019.784						
LPc-52	STA.1+209.053	LPc-105	STA.2+702.065	LPc-158	STA.4+560.086	LPc-211	STA.6+054.248						
LPc-53	STA.1+245.859	LPc-106	STA.2+737.122	LPc-159	STA.4+595.143	LPc-212	STA.6+088.712						

NOTES  
1. FOR GENERAL NOTES  
SEE PH1-PS-05  
2. FOR LEGENDS  
SEE PH1-PS-05

**ROAD 2 LIGHTING**

LIGHTING NUMBER	STATION NUMBER
LPc-1	STA.0+25
LPc-2	STA.0+59.385
LPc-3	STA.0+93.77
LPc-4	STA.0+128.155
LPc-5	STA.0+162.54
LPc-6	STA.0+196.925
LPc-7	STA.0+231.31
LPc-8	STA.0+265.695
LPc-9	STA.0+300.08
LPc-10	STA.0+334.465
LPc-11	STA.0+368.85
LPc-12	STA.0+403.235
LPc-13	STA.0+437.62
LPc-14	STA.0+472.005
LPc-15	STA.0+506.39
LPc-16	STA.0+540.775
LPc-17	STA.0+575.16
LPc-18	STA.0+609.545
LPc-19	STA.0+643.93
LPc-20	STA.0+678.315
LPc-21	STA.0+712.7
LPc-22	STA.0+747.085
LPc-23	STA.0+781.47
LPc-24	STA.0+815.855
LPc-25	STA.0+850.236
LPc-26	STA.0+900.236
LPc-27	STA.0+937.573
LPc-28	STA.0+974.911
LPc-29	STA.1+012.248
LPc-30	STA.1+049.585
LPc-31	STA.1+099.585
LPc-32	STA.1+135.554
LPc-33	STA.1+171.523
LPc-34	STA.1+207.492
LPc-35	STA.1+243.461

1 ROAD 1 & ROAD 2 LIGHTING STATIONING NUMBER  
PH1-PS-16 NOT TO SCALE

		<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> D.C. PMD CLARK PROJECTS DATE: _____	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>ROAD 1 &amp; ROAD 2 LIGHTING STATIONING NUMBER</b>	SCALE AS SHOWN DRAWING NO. PH1-PS-16	DRAWING STATUS DRAFT FINAL SHEET NO. 16 OF 27
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LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	NOTES
LPs-1	STA.0-47.886	LPs-54	STA.1+331.029	LPs-107	STA.2+744.498	LPs-160	STA.4+078.057	LPs-213	STA.5+453.236	LPs-7	STA.0+177.634	LPs-60	STA.1+535.017	1. FOR GENERAL NOTES SEE PH1-PS-05 2. FOR LEGENDS SEE PH1-PS-05		
LPs-2	STA.0-25	LPs-55	STA.1+356.029	LPs-108	STA.2+770.335	LPs-161	STA.4+103.825	LPs-214	STA.5+478.236	LPs-8	STA.0+203.402	LPs-61	STA.1+560.017			
LPs-3	STA.0+25	LPs-56	STA.1+381.029	LPs-109	STA.2+796.172	LPs-162	STA.4+129.593	LPs-215	STA.5+503.236	LPs-9	STA.0+229.17	LPs-62	STA.1+585.017			
LPs-4	STA.0+52.5	LPs-57	STA.1+406.029	LPs-110	STA.2+821.601	LPs-163	STA.4+155.361	LPs-216	STA.5+528.236	LPs-10	STA.0+254.937	LPs-63	STA.1+610.017			
LPs-5	STA.0+75	LPs-58	STA.1+431.029	LPs-111	STA.2+846.601	LPs-164	STA.4+180.759	LPs-217	STA.5+553.236	LPs-11	STA.0+280.008	LPs-64	STA.1+635.017			
LPs-6	STA.0+100	LPs-59	STA.1+481.029	LPs-112	STA.2+871.601	LPs-165	STA.4+205.759	LPs-218	STA.5+578.236	LPs-12	STA.0+305.008	LPs-65	STA.1+660.017			
LPs-7	STA.0+125	LPs-60	STA.1+507.923	LPs-113	STA.2+896.601	LPs-166	STA.4+230.759	LPs-219	STA.5+603.236	LPs-13	STA.0+330.008	LPs-66	STA.1+685.017			
LPs-8	STA.0+150	LPs-61	STA.1+532.851	LPs-114	STA.2+921.601	LPs-167	STA.4+255.759	LPs-220	STA.5+628.236	LPs-14	STA.0+355.008	LPs-67	STA.1+715.517			
LPs-9	STA.0+175	LPs-62	STA.1+559.863	LPs-115	STA.2+946.601	LPs-168	STA.4+280.759	LPs-221	STA.5+653.236	LPs-15	STA.0+380.008	LPs-68	STA.1+735.017			
LPs-10	STA.0+200	LPs-63	STA.1+586.875	LPs-116	STA.2+971.601	LPs-169	STA.4+305.759	LPs-222	STA.5+678.236	LPs-16	STA.0+405.008	LPs-69	STA.1+760.017			
LPs-11	STA.0+225	LPs-64	STA.1+613.888	LPs-117	STA.2+996.601	LPs-170	STA.4+330.759	LPs-223	STA.5+703.236	LPs-17	STA.0+430.008	LPs-70	STA.1+785.017			
LPs-12	STA.0+250	LPs-65	STA.1+667.913	LPs-118	STA.3+022.236	LPs-171	STA.4+356.13	LPs-224	STA.5+728.236	LPs-18	STA.0+455.008	LPs-71	STA.1+810.017			
LPs-13	STA.0+275	LPs-66	STA.1+694.925	LPs-119	STA.3+048.004	LPs-172	STA.4+381.898	LPs-225	STA.5+781.107	LPs-19	STA.0+480.008	LPs-72	STA.1+835.017			
LPs-14	STA.0+300	LPs-67	STA.1+720.872	LPs-120	STA.3+073.772	LPs-173	STA.4+407.666	LPs-226	STA.5+803.236	LPs-20	STA.0+505.008	LPs-73	STA.1+860.017			
LPs-15	STA.0+325	LPs-68	STA.1+745.872	LPs-121	STA.3+099.54	LPs-174	STA.4+433.434	LPs-227	STA.5+828.236	LPs-21	STA.0+530.008	LPs-74	STA.1+885.017			
LPs-16	STA.0+350	LPs-69	STA.1+770.872	LPs-122	STA.3+125.307	LPs-175	STA.4+459.202	LPs-228	STA.5+853.236	LPs-22	STA.0+555.494	LPs-75	STA.1+910.017			
LPs-17	STA.0+375	LPs-70	STA.1+795.872	LPs-123	STA.3+151.075	LPs-176	STA.4+484.97	LPs-229	STA.5+878.236	LPs-23	STA.0+581.262	LPs-76	STA.1+935.017			
LPs-18	STA.0+400	LPs-71	STA.1+820.872	LPs-124	STA.3+176.843	LPs-177	STA.4+510.738	LPs-230	STA.5+903.236	LPs-24	STA.0+607.03	LPs-77	STA.1+960.017			
LPs-19	STA.0+425	LPs-72	STA.1+845.872	LPs-125	STA.3+202.229	LPs-178	STA.4+536.505	LPs-231	STA.5+928.236	LPs-25	STA.0+632.798	LPs-78	STA.1+985.017			
LPs-20	STA.0+450	LPs-73	STA.1+870.872	LPs-126	STA.3+227.229	LPs-179	STA.4+562.273	LPs-232	STA.5+953.236	LPs-26	STA.0+658.565	LPs-79	STA.2+010.017			
LPs-21	STA.0+475	LPs-74	STA.1+895.872	LPs-127	STA.3+252.229	LPs-180	STA.4+588.041	LPs-233	STA.5+972.662	LPs-27	STA.0+684.333	LPs-80	STA.2+035.017			
LPs-22	STA.0+500	LPs-75	STA.1+920.872	LPs-128	STA.3+277.229	LPs-181	STA.4+613.809	LPs-234	STA.6+007.135	LPs-28	STA.0+710.017	LPs-81	STA.2+060.017			
LPs-23	STA.0+525	LPs-76	STA.1+945.872	LPs-129	STA.3+302.229	LPs-182	STA.4+639.167	LPs-235	STA.6+028.236	LPs-29	STA.0+735.017	LPs-82	STA.2+085.017			
LPs-24	STA.0+545.687	LPs-77	STA.1+970.872	LPs-130	STA.3+327.229	LPs-183	STA.4+664.167	LPs-236	STA.6+053.236	LPs-30	STA.0+760.017	LPs-83	STA.2+112.517			
LPs-25	STA.0+575	LPs-78	STA.1+995.872	LPs-131	STA.3+352.229	LPs-184	STA.4+689.167	LPs-237	STA.6+078.236	LPs-31	STA.0+785.017	LPs-84	STA.2+135.017			
LPs-26	STA.0+602.5	LPs-79	STA.2+021.065	LPs-132	STA.3+377.229	LPs-185	STA.4+714.167	LPs-238	STA.6+103.236	LPs-32	STA.0+810.017	LPs-85	STA.2+152.617			
LPs-27	STA.0+625	LPs-80	STA.2+046.902	LPs-133	STA.3+402.229	LPs-186	STA.4+739.167	LPs-239	STA.6+128.236	LPs-33	STA.0+835.017	LPs-86	STA.2+200.017			
LPs-28	STA.0+650	LPs-81	STA.2+072.739	LPs-134	STA.3+427.229	LPs-187	STA.4+764.167	LPs-240	STA.6+153.236	LPs-34	STA.0+852.517					
LPs-29	STA.0+675	LPs-82	STA.2+098.575	LPs-135	STA.3+452.229	LPs-188	STA.4+789.167	LPs-241	STA.6+178.236	LPs-35	STA.0+910.017					
LPs-30	STA.0+700	LPs-83	STA.2+124.412	LPs-136	STA.3+477.229	LPs-189	STA.4+814.167	LPs-242	STA.6+203.236	LPs-36	STA.0+935.017					
LPs-31	STA.0+725	LPs-84	STA.2+150.249	LPs-137	STA.3+502.229	LPs-190	STA.4+839.167	LPs-243	STA.6+228.545	LPs-37	STA.0+960.017					
LPs-32	STA.0+750	LPs-85	STA.2+176.086	LPs-138	STA.3+527.229	LPs-191	STA.4+864.167	LPs-244	STA.6+254.851	LPs-38	STA.0+985.017					
LPs-33	STA.0+775	LPs-86	STA.2+201.923	LPs-139	STA.3+552.229	LPs-192	STA.4+889.167	LPs-245	STA.6+282.48	LPs-39	STA.1+010.017					
LPs-34	STA.0+800	LPs-87	STA.2+227.76	LPs-140	STA.3+577.229	LPs-193	STA.4+915.1	LPs-246	STA.6+307.464	LPs-40	STA.1+035.017					
LPs-35	STA.0+833.838	LPs-88	STA.2+253.597	LPs-141	STA.3+602.229	LPs-194	STA.4+942.112	LPs-247	STA.6+333.771	LPs-41	STA.1+060.017					
LPs-36	STA.0+850	LPs-89	STA.2+282.889	LPs-142	STA.3+627.229	LPs-195	STA.4+969.124	LPs-248	STA.6+360.078	LPs-42	STA.1+092.217					
LPs-37	STA.0+875	LPs-90	STA.2+305.271	LPs-143	STA.3+652.229	LPs-196	STA.4+996.137	LPs-249	STA.6+385.714	LPs-43	STA.1+110.017					
LPs-38	STA.0+900	LPs-91	STA.2+331.107	LPs-144	STA.3+677.229	LPs-197	STA.5+023.149	LPs-250	STA.6+410.714	LPs-44	STA.1+135.017					
LPs-39	STA.0+925	LPs-92	STA.2+356.944	LPs-145	STA.3+702.229	LPs-198	STA.5+050.162	LPs-251	STA.6+435.714	LPs-45	STA.1+160.017					
LPs-40	STA.0+950	LPs-93	STA.2+382.781	LPs-146	STA.3+727.229	LPs-199	STA.5+077.174	LPs-252	STA.6+460.714	LPs-46	STA.1+185.017					
LPs-41	STA.0+975	LPs-94	STA.2+408.618	LPs-147	STA.3+752.229	LPs-200	STA.5+131.749	LPs-253	STA.6+487.719	LPs-47	STA.1+210.017					
LPs-42	STA.1+026.234	LPs-95	STA.2+434.455	LPs-148	STA.3+777.229	LPs-201	STA.5+153.236	LPs-254	STA.6+514.732	LPs-48	STA.1+235.017					
LPs-43	STA.1+052.002	LPs-96	STA.2+460.292	LPs-149	STA.3+802.229	LPs-202	STA.5+178.236	LPs-255	STA.6+541.744	LPs-49	STA.1+260.017					
LPs-44	STA.1+077.77	LPs-97	STA.2+486.129	LPs-150	STA.3+827.229	LPs-203	STA.5+203.236	LPs-256	STA.6+568.192	LPs-50	STA.1+285.017					
LPs-45	STA.1+103.537	LPs-98	STA.2+511.966	LPs-151	STA.3+852.229	LPs-204	STA.5+228.236			LPs-51	STA.1+310.017					
LPs-46	STA.1+129.305	LPs-99	STA.2+537.803	LPs-152	STA.3+877.229	LPs-205	STA.5+253.236			LPs-52	STA.1+335.017					
LPs-47	STA.1+155.073	LPs-100	STA.2+563.64	LPs-153	STA.3+902.229	LPs-206	STA.5+278.236			LPs-53	STA.1+360.017					
LPs-48	STA.1+180.841	LPs-101	STA.2+589.476	LPs-154	STA.3+927.229	LPs-207	STA.5+303.236			LPs-54	STA.1+385.017					
LPs-49	STA.1+206.029	LPs-102	STA.2+615.313	LPs-155	STA.3+952.229	LPs-208	STA.5+328.236			LPs-55	STA.1+410.017					
LPs-50	STA.1+231.029	LPs-103	STA.2+641.15	LPs-156	STA.3+977.229	LPs-209	STA.5+353.236			LPs-56	STA.1+435.017					
LPs-51	STA.1+256.029	LPs-104	STA.2+666.987	LPs-157	STA.4+002.229	LPs-210	STA.5+378.236			LPs-57	STA.1+460.017					
LPs-52	STA.1+285.244	LPs-105	STA.2+692.824	LPs-158	STA.4+027.229	LPs-211	STA.5+403.236			LPs-58	STA.1+485.017					
LPs-53	STA.1+306.029	LPs-106	STA.2+718.661	LPs-159	STA.4+052.289	LPs-212	STA.5+428.236			LPs-59	STA.1+510.017					
<b>ROAD 2 LIGHTING</b>																
	<b>LIGHTING NUMBER</b>	<b>STATION NUMBER</b>														
	LPs-1	STA.0.25														
	LPs-2	STA.0+52.5														
	LPs-3	STA.0+75														
	LPs-4	STA.0+100.33														
	LPs-5	STA.0+126.098														
	LPs-6	STA.0+151.866														

1  
PH1-PS-17  
ROAD 1 & ROAD 2  
LIGHTING STATIONING  
NUMBER  
NOT TO SCALE

CONSULTANTS		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> CGC, PMD CLARK PROJECTS DATE: _____	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>ROAD 1 &amp; ROAD 2 LIGHTING STATIONING NUMBER</b>	SCALE AS SHOWN DRAWING NO. PH1-PS-17	DRAWING STATUS DRAFT FINAL SHEET NO. 17 OF 27
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LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER	LIGHTING NUMBER	STATION NUMBER
LPn-1	STA.0-47.886	LPn-54	STA.1+306.029	LPn-107	STA.2+692.824	LPn-160	STA.4+027.229	LPn-213	STA.5+378.236	LPn-3	STA.0+75	LPn-56	STA.1+435.017		
LPn-2	STA.0-25	LPn-55	STA.1+331.029	LPn-108	STA.2+718.661	LPn-161	STA.4+052.289	LPn-214	STA.5+403.236	LPn-4	STA.0+100.33	LPn-57	STA.1+460.017		
LPn-3	STA.0+25	LPn-56	STA.1+356.029	LPn-109	STA.2+744.498	LPn-162	STA.4+078.057	LPn-215	STA.5+428.236	LPn-5	STA.0+126.098	LPn-58	STA.1+485.017		
LPn-4	STA.0+52.5	LPn-57	STA.1+381.029	LPn-110	STA.2+770.335	LPn-163	STA.4+103.825	LPn-216	STA.5+453.236	LPn-6	STA.0+151.866	LPn-59	STA.1+510.017		
LPn-5	STA.0+75	LPn-58	STA.1+406.029	LPn-111	STA.2+796.172	LPn-164	STA.4+129.593	LPn-217	STA.5+478.236	LPn-7	STA.0+177.634	LPn-60	STA.1+535.017		
LPn-6	STA.0+100	LPn-59	STA.1+431.029	LPn-112	STA.2+821.601	LPn-165	STA.4+155.361	LPn-218	STA.5+503.236	LPn-8	STA.0+203.402	LPn-61	STA.1+560.017		
LPn-7	STA.0+125	LPn-60	STA.1+456.037	LPn-113	STA.2+846.601	LPn-166	STA.4+180.759	LPn-219	STA.5+528.236	LPn-9	STA.0+229.17	LPn-62	STA.1+585.017		
LPn-8	STA.0+150	LPn-61	STA.1+481.029	LPn-114	STA.2+871.601	LPn-167	STA.4+205.759	LPn-220	STA.5+553.236	LPn-10	STA.0+254.937	LPn-63	STA.1+610.017		
LPn-9	STA.0+175	LPn-62	STA.1+507.923	LPn-115	STA.2+896.601	LPn-168	STA.4+230.759	LPn-221	STA.5+578.236	LPn-11	STA.0+280.008	LPn-64	STA.1+635.017		
LPn-10	STA.0+200	LPn-63	STA.1+532.851	LPn-116	STA.2+921.601	LPn-169	STA.4+255.759	LPn-222	STA.5+603.236	LPn-12	STA.0+305.008	LPn-65	STA.1+660.017		
LPn-11	STA.0+225	LPn-64	STA.1+559.863	LPn-117	STA.2+946.601	LPn-170	STA.4+280.759	LPn-223	STA.5+628.236	LPn-13	STA.0+330.008	LPn-66	STA.1+677.817		
LPn-12	STA.0+250	LPn-65	STA.1+586.875	LPn-118	STA.2+971.601	LPn-171	STA.4+305.759	LPn-224	STA.5+653.236	LPn-14	STA.0+355.008	LPn-67	STA.1+735.017		
LPn-13	STA.0+275	LPn-66	STA.1+613.888	LPn-119	STA.2+996.601	LPn-172	STA.4+330.759	LPn-225	STA.5+678.236	LPn-15	STA.0+380.008	LPn-68	STA.1+760.017		
LPn-14	STA.0+300	LPn-67	STA.1+640.908	LPn-120	STA.3+022.236	LPn-173	STA.4+356.13	LPn-226	STA.5+703.236	LPn-16	STA.0+405.008	LPn-69	STA.1+785.017		
LPn-15	STA.0+325	LPn-68	STA.1+667.913	LPn-121	STA.3+048.004	LPn-174	STA.4+381.898	LPn-227	STA.5+728.236	LPn-17	STA.0+430.008	LPn-70	STA.1+810.017		
LPn-16	STA.0+350	LPn-69	STA.1+694.925	LPn-122	STA.3+073.772	LPn-175	STA.4+407.666	LPn-228	STA.5+746.231	LPn-18	STA.0+455.008	LPn-71	STA.1+835.017		
LPn-17	STA.0+375	LPn-70	STA.1+720.872	LPn-123	STA.3+099.54	LPn-176	STA.4+433.434	LPn-229	STA.5+778.244	LPn-19	STA.0+480.008	LPn-72	STA.1+860.017		
LPn-18	STA.0+400	LPn-71	STA.1+745.872	LPn-124	STA.3+125.307	LPn-177	STA.4+459.202	LPn-230	STA.5+803.236	LPn-20	STA.0+505.008	LPn-73	STA.1+885.017		
LPn-19	STA.0+425	LPn-72	STA.1+770.872	LPn-125	STA.3+151.075	LPn-178	STA.4+484.97	LPn-231	STA.5+828.236	LPn-21	STA.0+530.008	LPn-74	STA.1+910.017		
LPn-20	STA.0+450	LPn-73	STA.1+795.872	LPn-126	STA.3+176.843	LPn-179	STA.4+510.738	LPn-232	STA.5+853.236	LPn-22	STA.0+555.494	LPn-75	STA.1+935.017		
LPn-21	STA.0+475	LPn-74	STA.1+820.872	LPn-127	STA.3+202.229	LPn-180	STA.4+536.505	LPn-233	STA.5+878.236	LPn-23	STA.0+581.262	LPn-76	STA.1+960.017		
LPn-22	STA.0+500	LPn-75	STA.1+845.872	LPn-128	STA.3+227.229	LPn-181	STA.4+562.273	LPn-234	STA.5+903.236	LPn-24	STA.0+607.03	LPn-77	STA.1+985.017		
LPn-23	STA.0+525	LPn-76	STA.1+870.872	LPn-129	STA.3+252.229	LPn-182	STA.4+588.041	LPn-235	STA.5+928.236	LPn-25	STA.0+632.798	LPn-78	STA.2+010.017		
LPn-24	STA.0+550.008	LPn-77	STA.1+895.872	LPn-130	STA.3+277.229	LPn-183	STA.4+613.809	LPn-236	STA.5+953.236	LPn-26	STA.0+658.565	LPn-79	STA.2+035.017		
LPn-25	STA.0+575	LPn-78	STA.1+920.872	LPn-131	STA.3+302.229	LPn-184	STA.4+639.167	LPn-237	STA.5+972.559	LPn-27	STA.0+684.333	LPn-80	STA.2+060.017		
LPn-26	STA.0+602.5	LPn-79	STA.1+945.872	LPn-132	STA.3+327.229	LPn-185	STA.4+664.167	LPn-238	STA.6+007.608	LPn-28	STA.0+710.017	LPn-81	STA.2+085.017		
LPn-27	STA.0+625	LPn-80	STA.1+970.872	LPn-133	STA.3+352.229	LPn-186	STA.4+689.167	LPn-239	STA.6+028.236	LPn-29	STA.0+735.017	LPn-82	STA.2+112.517		
LPn-28	STA.0+650	LPn-81	STA.1+995.872	LPn-134	STA.3+377.229	LPn-187	STA.4+714.167	LPn-240	STA.6+053.236	LPn-30	STA.0+760.017	LPn-83	STA.2+135.017		
LPn-29	STA.0+675	LPn-82	STA.2+021.065	LPn-135	STA.3+402.229	LPn-188	STA.4+739.167	LPn-241	STA.6+078.236	LPn-31	STA.0+785.017	LPn-84	STA.2+152.617		
LPn-30	STA.0+700	LPn-83	STA.2+046.902	LPn-136	STA.3+427.229	LPn-189	STA.4+764.167	LPn-242	STA.6+103.236	LPn-32	STA.0+810.017	LPn-85	STA.2+200.017		
LPn-31	STA.0+725	LPn-84	STA.2+072.739	LPn-137	STA.3+452.229	LPn-190	STA.4+789.167	LPn-243	STA.6+128.236	LPn-33	STA.0+835.017				
LPn-32	STA.0+750	LPn-85	STA.2+098.575	LPn-138	STA.3+477.229	LPn-191	STA.4+814.167	LPn-244	STA.6+153.236	LPn-34	STA.0+852.517				
LPn-33	STA.0+775	LPn-86	STA.2+124.412	LPn-139	STA.3+502.229	LPn-192	STA.4+839.167	LPn-245	STA.6+178.236	LPn-35	STA.0+910.017				
LPn-34	STA.0+800	LPn-87	STA.2+150.249	LPn-140	STA.3+527.229	LPn-193	STA.4+864.167	LPn-246	STA.6+203.236	LPn-36	STA.0+935.017				
LPn-35	STA.0+825.008	LPn-88	STA.2+176.086	LPn-141	STA.3+552.229	LPn-194	STA.4+889.167	LPn-247	STA.6+228.545	LPn-37	STA.0+960.017				
LPn-36	STA.0+850	LPn-89	STA.2+201.923	LPn-142	STA.3+577.229	LPn-195	STA.4+915.1	LPn-248	STA.6+254.851	LPn-38	STA.0+985.017				
LPn-37	STA.0+875	LPn-90	STA.2+227.76	LPn-143	STA.3+602.229	LPn-196	STA.4+942.112	LPn-249	STA.6+282.48	LPn-39	STA.1+010.017				
LPn-38	STA.0+900	LPn-91	STA.2+253.597	LPn-144	STA.3+627.229	LPn-197	STA.4+969.124	LPn-250	STA.6+307.464	LPn-40	STA.1+035.017				
LPn-39	STA.0+925	LPn-92	STA.2+282.889	LPn-145	STA.3+652.229	LPn-198	STA.4+996.137	LPn-251	STA.6+333.771	LPn-41	STA.1+060.017				
LPn-40	STA.0+950	LPn-93	STA.2+305.271	LPn-146	STA.3+677.229	LPn-199	STA.5+023.149	LPn-252	STA.6+360.078	LPn-42	STA.1+092.217				
LPn-41	STA.0+975	LPn-94	STA.2+331.107	LPn-147	STA.3+702.229	LPn-200	STA.5+050.162	LPn-253	STA.6+385.714	LPn-43	STA.1+110.017				
LPn-42	STA.1+000.474	LPn-95	STA.2+356.944	LPn-148	STA.3+727.229	LPn-201	STA.5+077.174	LPn-254	STA.6+410.714	LPn-44	STA.1+135.017				
LPn-43	STA.1+026.234	LPn-96	STA.2+382.781	LPn-149	STA.3+752.229	LPn-202	STA.5+103.244	LPn-255	STA.6+435.714	LPn-45	STA.1+160.017				
LPn-44	STA.1+052.002	LPn-97	STA.2+408.618	LPn-150	STA.3+777.229	LPn-203	STA.5+128.244	LPn-256	STA.6+460.714	LPn-46	STA.1+185.017				
LPn-45	STA.1+077.77	LPn-98	STA.2+434.455	LPn-151	STA.3+802.229	LPn-204	STA.5+153.236	LPn-257	STA.6+487.719	LPn-47	STA.1+210.017				
LPn-46	STA.1+103.537	LPn-99	STA.2+466.129	LPn-152	STA.3+827.229	LPn-205	STA.5+178.236	LPn-258	STA.6+514.732	LPn-48	STA.1+235.017				
LPn-47	STA.1+129.305	LPn-100	STA.2+511.966	LPn-153	STA.3+852.229	LPn-206	STA.5+203.236	LPn-259	STA.6+541.744	LPn-49	STA.1+260.017				
LPn-48	STA.1+155.073	LPn-101	STA.2+537.803	LPn-154	STA.3+877.229	LPn-207	STA.5+228.236	LPn-260	STA.6+568.192	LPn-50	STA.1+285.017				
LPn-49	STA.1+180.841	LPn-102	STA.2+563.64	LPn-155	STA.3+902.229	LPn-208	STA.5+253.236			LPn-51	STA.1+310.017				
LPn-50	STA.1+206.029	LPn-103	STA.2+589.476	LPn-156	STA.3+927.229	LPn-209	STA.5+278.236			LPn-52	STA.1+335.017				
LPn-51	STA.1+231.029	LPn-104	STA.2+615.313	LPn-157	STA.3+952.229	LPn-210	STA.5+303.236			LPn-53	STA.1+360.017				
LPn-52	STA.1+256.029	LPn-105	STA.2+641.15	LPn-158	STA.3+977.229	LPn-211	STA.5+328.236			LPn-54	STA.1+385.017				
LPn-53	STA.1+285.244	LPn-106	STA.2+666.987	LPn-159	STA.4+002.229	LPn-212	STA.5+353.236			LPn-55	STA.1+410.017				

- NOTES
- FOR GENERAL NOTES SEE PH1-PS-05
  - FOR LEGENDS SEE PH1-PS-05

ROAD 2 LIGHTING	
LIGHTING NUMBER	STATION NUMBER
LPn-1	STA.0.25
LPn-2	STA.0+52.5

ROAD 1 & ROAD 2 LIGHTING STATIONING NUMBER  
1  
PH1-PS-18 NOT TO SCALE

<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. CONSULTANTS		<b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> DIR. PMD CLARK PROJECTS DATE: _____	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP. CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>ROAD 1 &amp; ROAD 2 LIGHTING STATIONING NUMBER</b>	SCALE AS SHOWN DRAWING NO. PH1-PS-18	DRAWING STATUS DRAFT FINAL SHEET NO. 18 OF 27
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**NOTES**

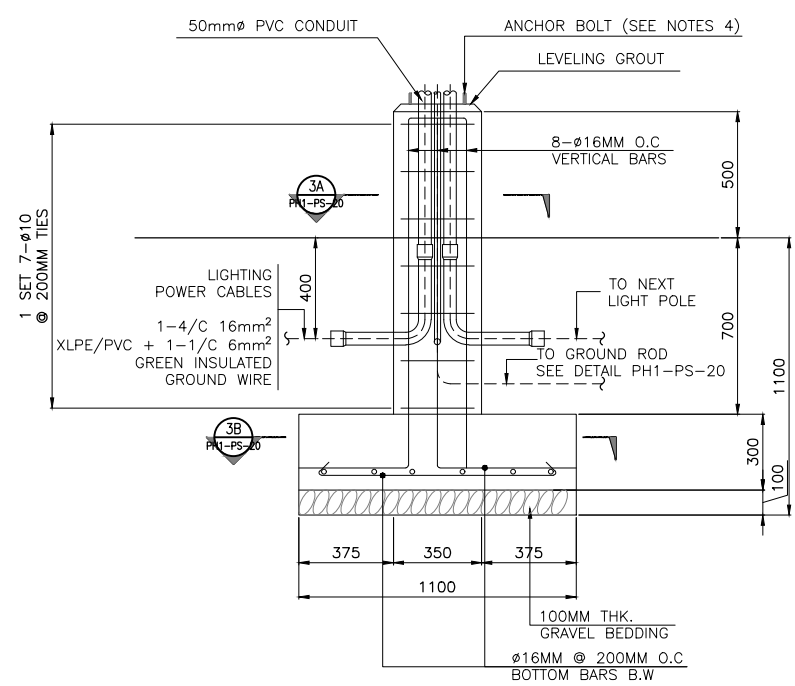
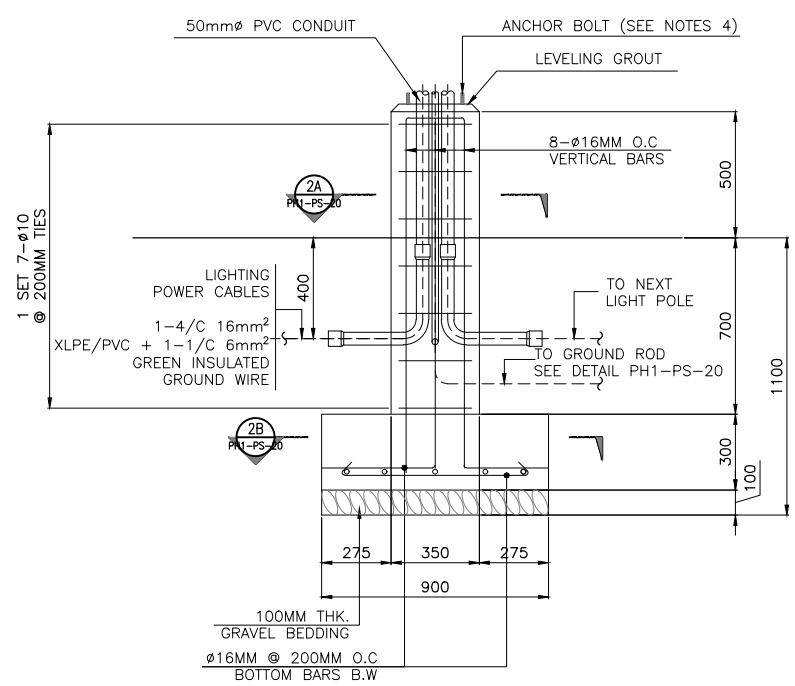
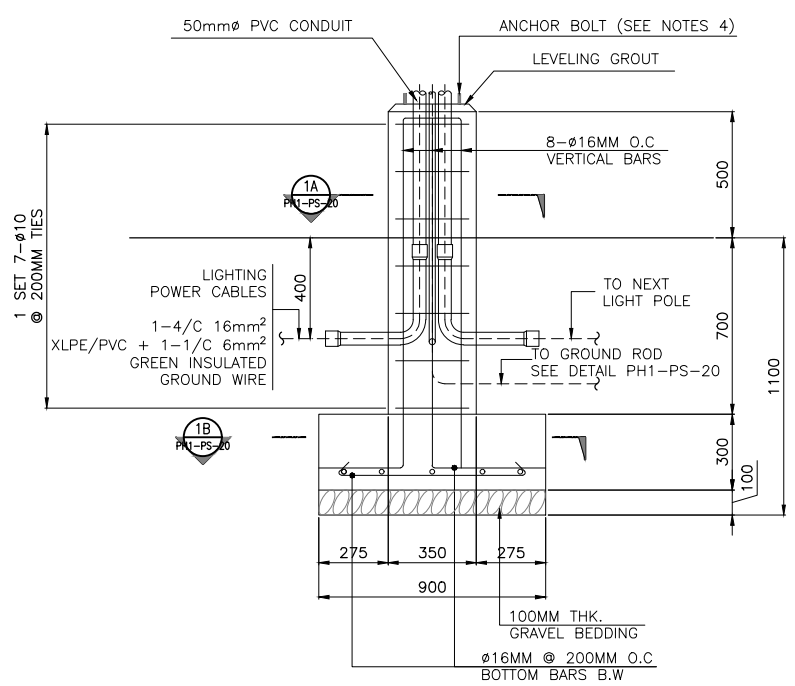
1. FOR GENERAL NOTES  
SEE PH1-PS-05
2. FOR LEGENDS  
SEE PH1-PS-05

ROAD 1 ELECTRICAL HANDHOLE					
EHc Ⓞ CENTER ROAD	STATION NUMBER	EHs Ⓞ CENTER ROAD	STATION NUMBER	EHn Ⓞ CENTER ROAD	STATION NUMBER
EHc-1	STA.0-21.831	EHs-1	STA.0-21.831	EHn-1	STA.0-21.831
EHc-2	STA.0+236.505	EHs-2	STA.0+236.505	EHn-2	STA.0+236.505
EHc-3	STA.0+488.005	EHs-3	STA.0+488.005	EHn-3	STA.0+488.005
EHc-4	STA.0+738.005	EHs-4	STA.0+738.005	EHn-4	STA.0+738.005
EHc-5	STA.0+988.005	EHs-5	STA.0+988.005	EHn-5	STA.0+988.005
EHc-6	STA.1+238.005	EHs-6	STA.1+238.005	EHn-6	STA.1+238.005
EHc-7	STA.1+488.005	EHs-7	STA.1+488.005	EHn-7	STA.1+488.005
EHc-8	STA.1+738.005	EHs-8	STA.1+738.005	EHn-8	STA.1+738.005
EHc-9	STA.1+988.005	EHs-9	STA.1+988.005	EHn-9	STA.1+988.005
EHc-10	STA.2+238.005	EHs-10	STA.2+238.005	EHn-10	STA.2+238.005
EHc-11	STA.2+488.005	EHs-11	STA.2+488.005	EHn-11	STA.2+488.005
EHc-12	STA.2+498.245	EHs-12	STA.2+498.245	EHn-12	STA.2+498.245
EHc-13	STA.2+748.245	EHs-13	STA.2+748.245	EHn-13	STA.2+748.245
EHc-14	STA.2+994.229	EHs-14	STA.2+994.229	EHn-14	STA.2+994.229
EHc-15	STA.3+248.245	EHs-15	STA.3+248.245	EHn-15	STA.3+248.245
EHc-16	STA.3+498.245	EHs-16	STA.3+498.245	EHn-16	STA.3+498.245
EHc-17	STA.3+748.245	EHs-17	STA.3+748.245	EHn-17	STA.3+748.245
EHc-18	STA.4+000.792	EHs-18	STA.3+998.095	EHn-18	STA.3+998.095
EHc-19	STA.4+248.245	EHs-19	STA.4+248.245	EHn-19	STA.4+248.245
EHc-20	STA.4+498.245	EHs-20	STA.4+498.245	EHn-20	STA.4+498.245
EHc-21	STA.4+748.245	EHs-21	STA.4+748.245	EHn-21	STA.4+748.245
EHc-22	STA.4+998.245	EHs-22	STA.4+998.245	EHn-22	STA.4+998.245
EHc-23	STA.5+248.245	EHs-23	STA.5+248.245	EHn-23	STA.5+248.245
EHc-24	STA.5+498.245	EHs-24	STA.5+498.245	EHn-24	STA.5+498.245
EHc-25	STA.5+748.245	EHs-25	STA.5+748.245	EHn-25	STA.5+748.245
EHc-26	STA.5+998.245	EHs-26	STA.5+998.245	EHn-26	STA.5+998.245
EHc-27	STA.6+248.245	EHs-27	STA.6+248.245	EHn-27	STA.6+248.245
EHc-28	STA.6+498.245	EHs-28	STA.6+498.245	EHn-28	STA.6+498.245

ROAD 2 ELECTRICAL HANDHOLE					
EHc Ⓞ CENTER ROAD	STATION NUMBER	EHs Ⓞ CENTER ROAD	STATION NUMBER	EHn Ⓞ CENTER ROAD	STATION NUMBER
EHc-1	STA.0+82.757	EHs-1	STA.0+82.757	EHn-1	STA.0+82.757
EHc-2	STA.0+332.757	EHs-2	STA.0+332.757	EHn-2	STA.0+332.757
EHc-3	STA.0+582.757	EHs-3	STA.0+582.757	EHn-3	STA.0+582.757
EHc-4	STA.0+832.757	EHs-4	STA.0+832.757	EHn-4	STA.0+832.757
EHc-5	STA.1+085.757	EHs-5	STA.1+085.757	EHn-5	STA.1+085.757
EHc-6	STA.1+332.757	EHs-6	STA.1+332.757	EHn-6	STA.1+332.757
EHc-7	STA.1+582.757	EHs-7	STA.1+582.757	EHn-7	STA.1+582.757
EHc-8	STA.1+832.757	EHs-8	STA.1+832.757	EHn-8	STA.1+832.757
EHc-9	STA.2+082.757	EHs-9	STA.2+082.757	EHn-9	STA.2+082.757

1 ROAD 1 & ROAD 2 HANDHOLE STATIONING NUMBER  
PH1-PS-19 NOT TO SCALE

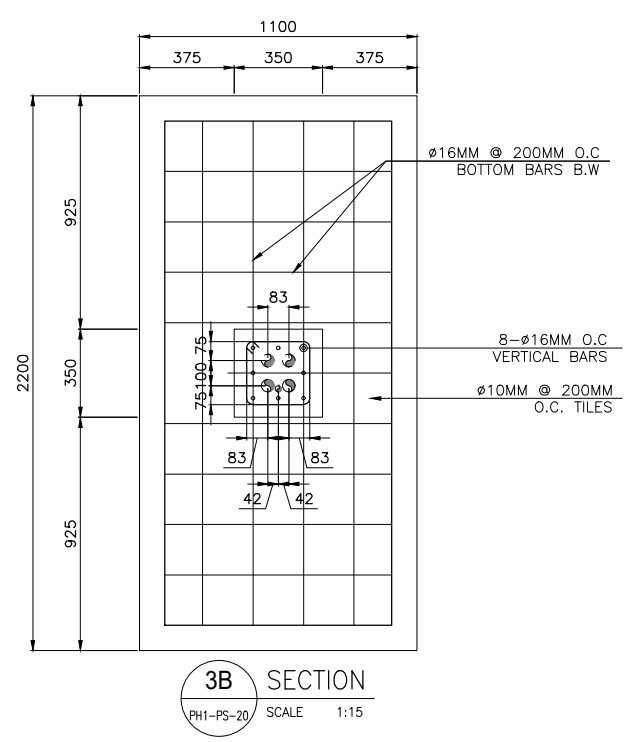
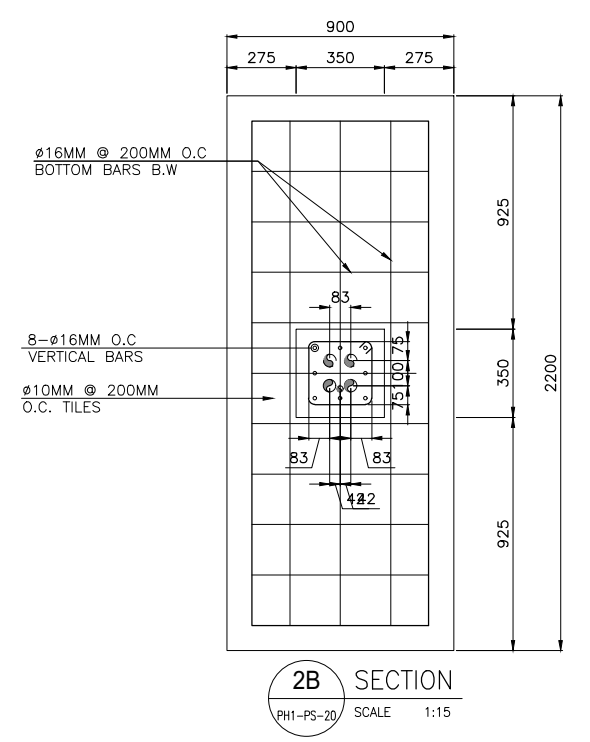
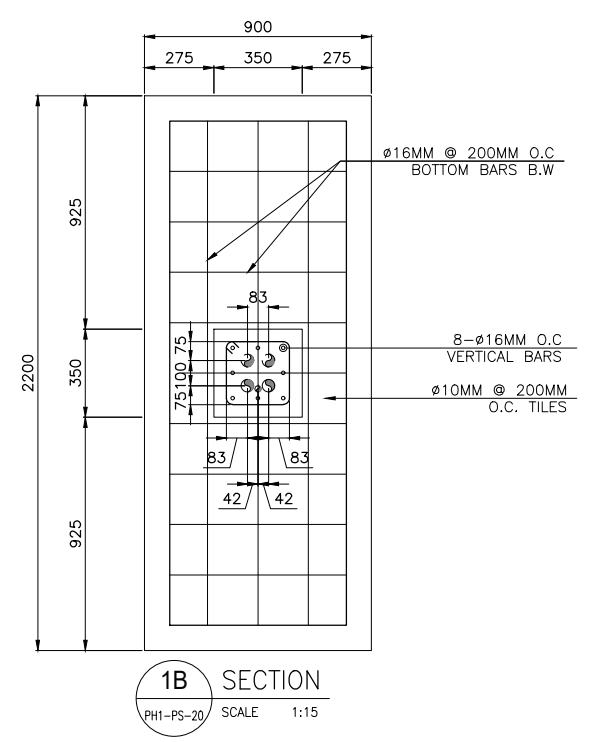
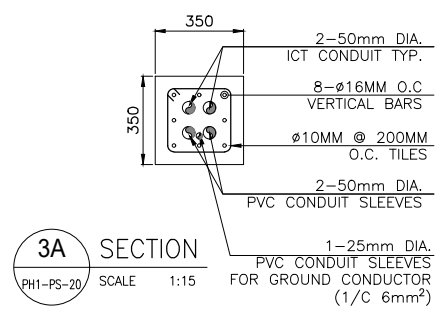
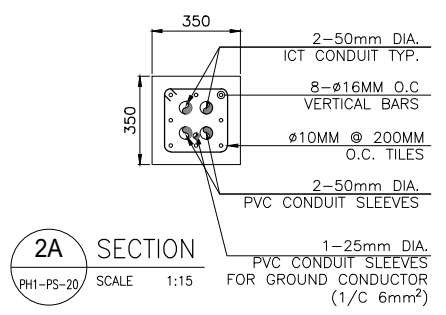
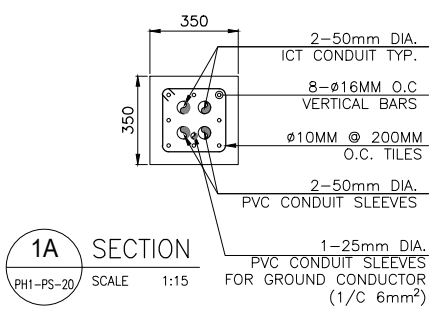
<b>CONSULTANTS</b>   NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES  PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT ROAD 1 AND ROAD 2 HANDHOLE STATIONING NUMBER	SCALE AS SHOWN DRAWING NO. PH1-PS-19	DRAWING STATUS DRAFT FINAL SHEET NO. 19 OF 27
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**1** TYPICAL TO 39 AND 41.5 ROW  
6M DOUBLE ARM POLE FOUNDATION (SOUTH SIDE)  
PH1-PS-20 SCALE 1:15

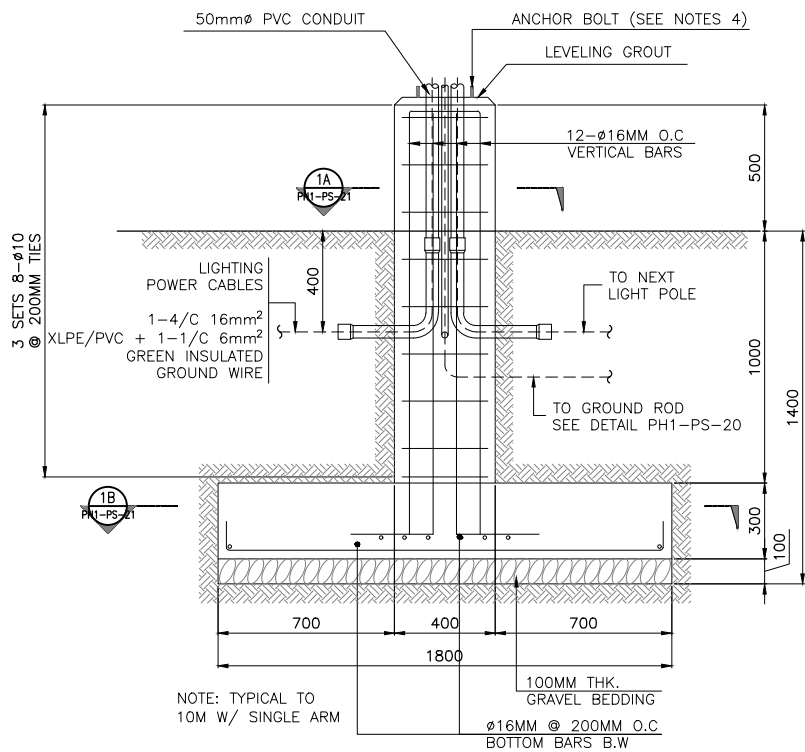
**2** TYPICAL TO 39 AND 41.5 ROW  
6M DOUBLE ARM POLE FOUNDATION (NORTH SIDE)  
PH1-PS-20 SCALE 1:15

**3** TYPICAL TO 50 ROW  
6M DOUBLE ARM POLE FOUNDATION  
PH1-PS-20 SCALE 1:15

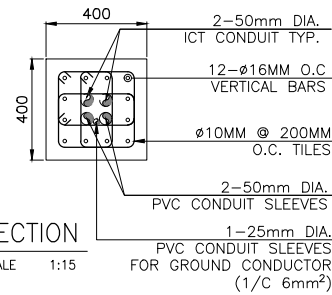


**NOTES**

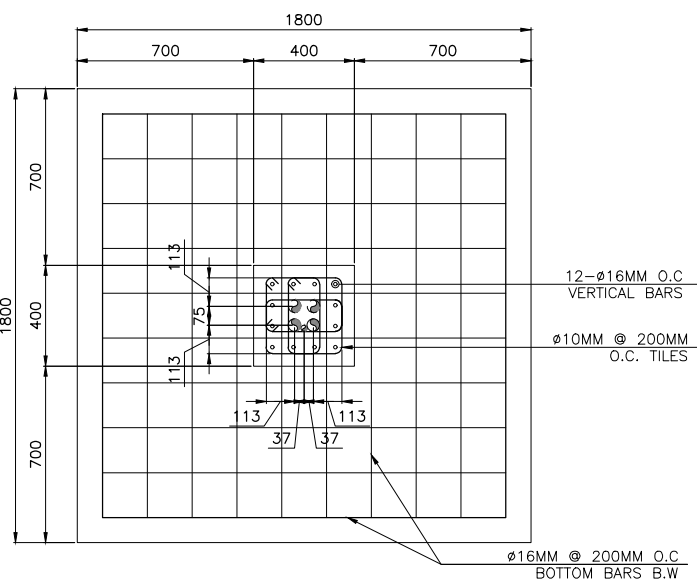
- PIPE THICKNESS IS 3.0mm. STRUCTURAL MATERIALS TUBULAR STEEL IN HOT-DIPPED GALVANIZED W/ BASE PLATE (SQUARE) 10.5" (267mm)
  - POLE HEIGHT - 9.5m WITH DOUBLE ARM - 1.8m
  - POLE HEIGHT - 5.5m WITH DOUBLE ARM 1.0m W/ BASE PLATE (SQUARE) 10" (254mm)
  - ANCHOR BOLTS SIZE: 1"(25mm) X 36" (914mm) LENGTH X 4" (100mm) hook dia. CONTRACTOR TO VERIFY FROM POLE MANUFACTURER ACTUAL MOUNTING DIMENSION OF ANCHOR BOLT PLACEMENT PRIOR TO CONCRETING WORKS.
- A. REINFORCED CONCRETE 3,000 PSI, 3/4 AGGREGATES 28 DAYS
- B. SCHEDULE OF REINFORCING BARS
- | DIAMETER OF BARS (WELDABLE) | GRADE                | ASTM        |
|-----------------------------|----------------------|-------------|
| ø12 AND SMALLER             | GRADE 40 (40,000psi) | A706M PMS49 |
| ø16 AND LARGER              | GRADE 60 (60,000psi) | A706M PMS49 |
- C. ASSUMED SOIL BEARING CAPACITY = 100 KPA
- D. WIND SPEED = 260 KPH



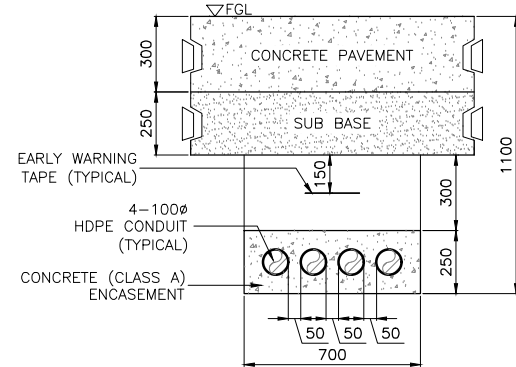
**1** 10M SINGLE AND DOUBLE ARM POLE FOUNDATION  
PH1-PS-21 SCALE 1:15



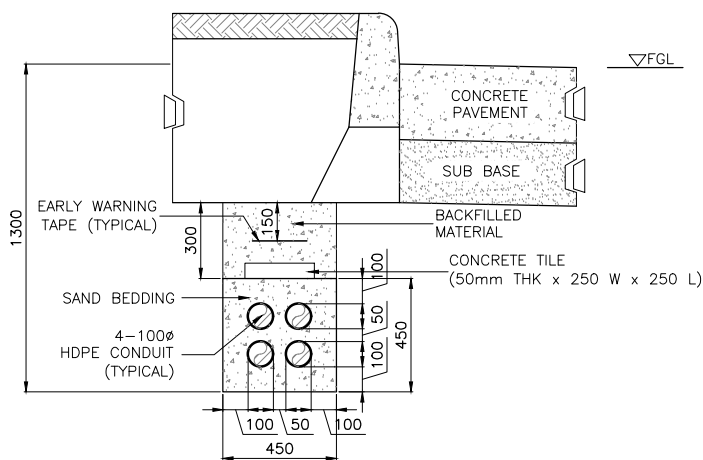
**1A** SECTION  
PH1-PS-21 SCALE 1:15



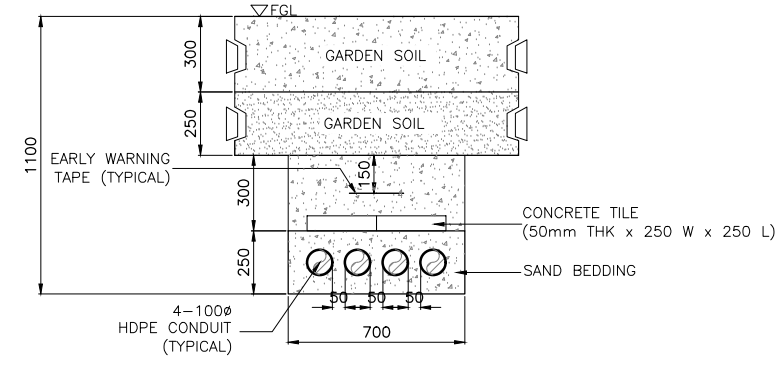
**2B** SECTION  
PH1-PS-21 SCALE 1:15



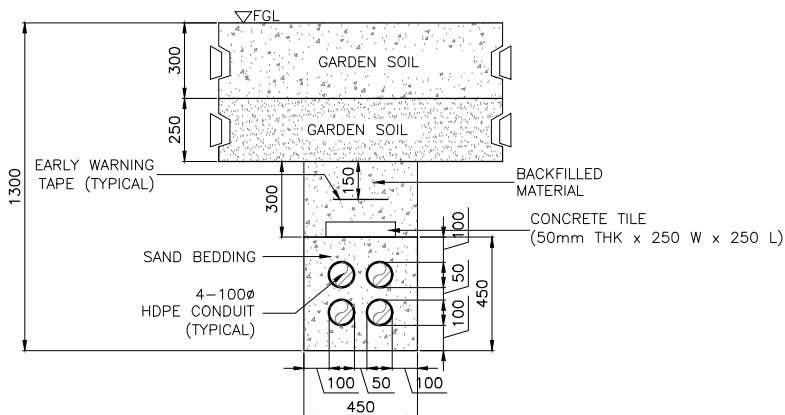
**2** 6M DOUBLE ARM POLE LOW VOLTAGE DUCTBANK DETAIL FOR ROAD CROSSING - ROAD LIGHTING CABLE  
PH1-PS-21 SCALE 1:15



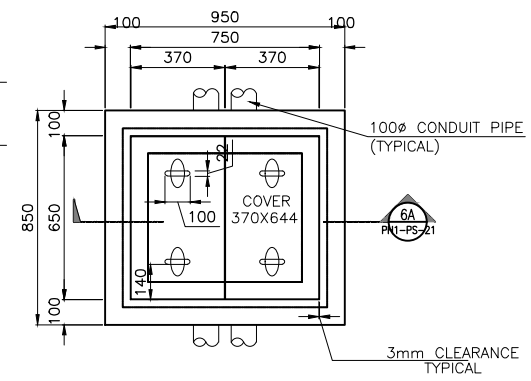
**4** 10M SINGLE AND DOUBLE ARM POLE LOW VOLTAGE DIRECT BURIAL POWER CABLE IN HDPE CONDUIT (FOR ROAD CROSSING)  
PH1-PS-21 SCALE 1:15



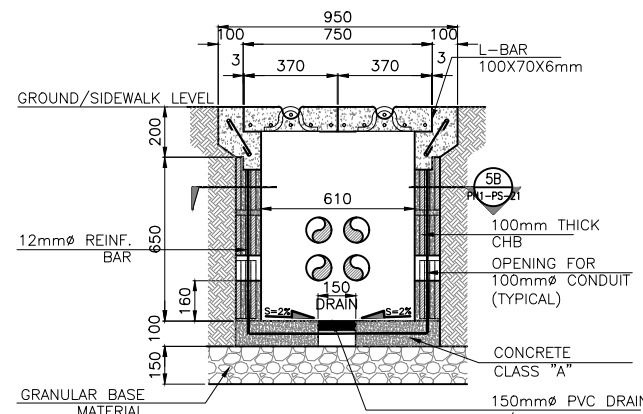
**3** 6M DOUBLE ARM POLE LOW VOLTAGE DIRECT BURIAL POWER CABLE IN HDPE CONDUIT (FOR NON-ROAD CROSSING)  
PH1-PS-21 SCALE 1:15



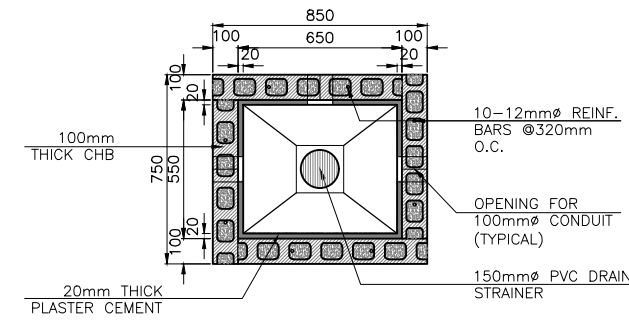
**5** 10M SINGLE AND DOUBLE ARM POLE LOW VOLTAGE DIRECT BURIAL POWER CABLE IN HDPE CONDUIT (FOR NON-ROAD CROSSING)  
PH1-PS-21 SCALE 1:15



**6** HANDHOLE PLAN  
PH1-PS-21 SCALE 1:15



**6A** SECTION  
PH1-PS-21 SCALE 1:15



**6B** SECTION  
PH1-PS-21 SCALE 1:15

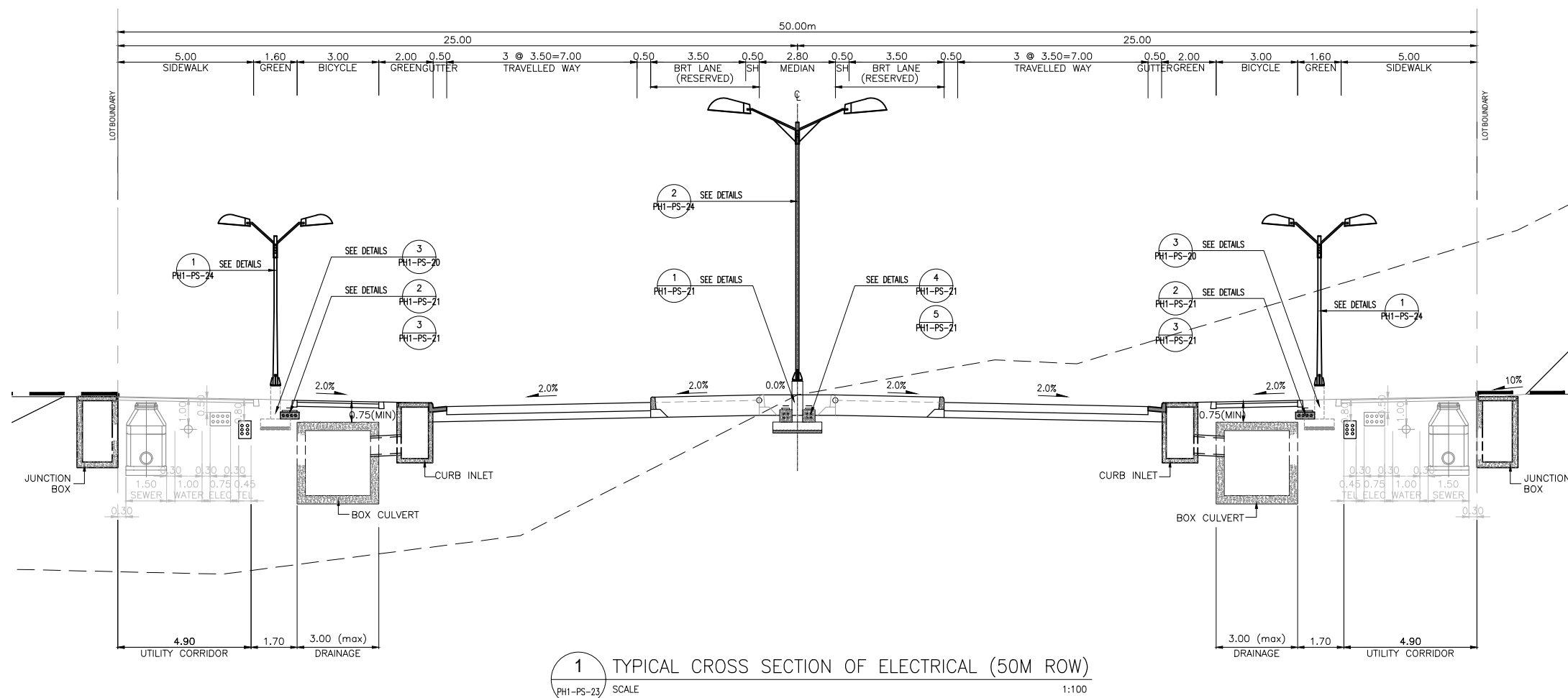
- NOTES**
- PIPE THICKNESS IS 3.0mm. STRUCTURAL MATERIALS TUBULAR STEEL IN HOT-DIPPED GALVANIZED W/ BASE PLATE (SQUARE) 10.5" (267mm)
  - POLE HEIGHT - 9.5m WITH DOUBLE ARM - 1.8m
  - POLE HEIGHT - 5.5m WITH DOUBLE ARM 1.0m W/ BASE PLATE (SQUARE) 10" (254mm)
  - ANCHOR BOLTS SIZE: 1"(25mm) X 36" (914mm) LENGTH X 4" (100mm) hook dia. CONTRACTOR TO VERIFY FROM POLE MANUFACTURER ACTUAL MOUNTING DIMENSION OF ANCHOR BOLT PLACEMENT PRIOR TO CONCRETING WORKS.

- A. REINFORCED CONCRETE 3,000 PSI, 3/4 AGGREGATES 28 DAYS
- B. SCHEDULE OF REINFORCING BARS
- | DIAMETER OF BARS           | GRADE                | ASTM        |
|----------------------------|----------------------|-------------|
| Ø12 AND SMALLER (WELDABLE) | GRADE 40 (40,000psi) | A706M PMS49 |
| Ø16 AND LARGER (WELDABLE)  | GRADE 60 (60,000psi) | A706M PMS49 |
- C. ASSUMED SOIL BEARING CAPACITY = 100 KPA
- D. WIND SPEED = 260 KPH



**NOTES**

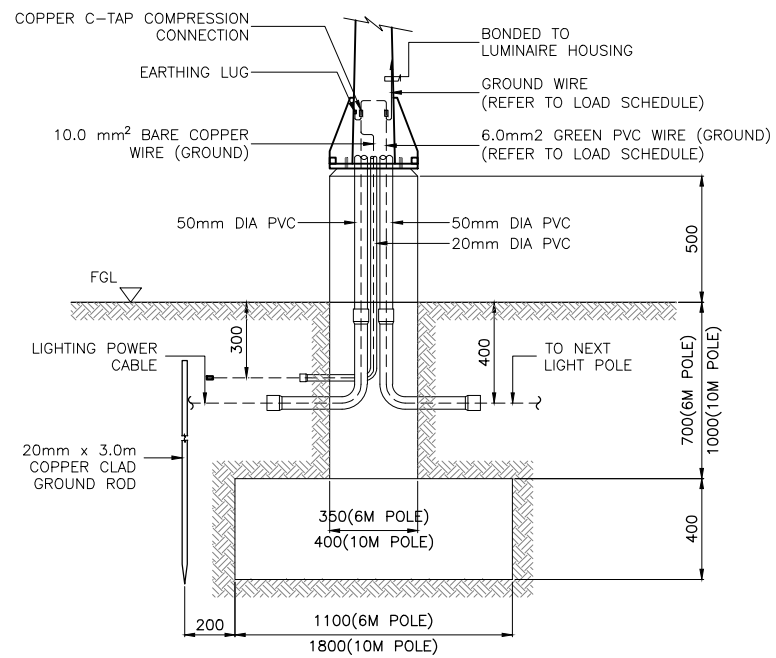
1. FOR GENERAL NOTES & LEGEND  
SEE REF. PH1-PS-05
2. FOR DRAWING DETAILS  
SEE REF. PH1-PS-20, PH1-PS-21 &  
PH1-PS-24



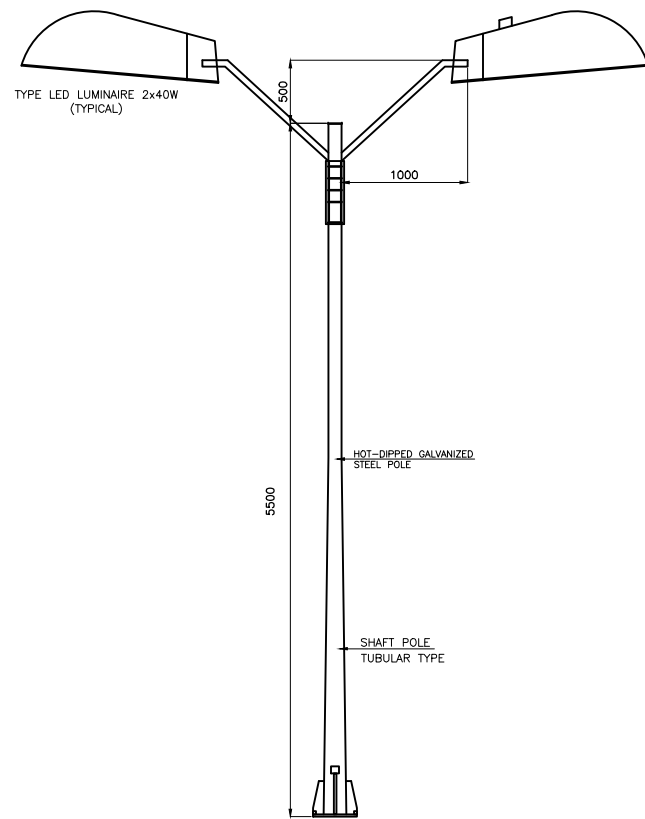
**1** TYPICAL CROSS SECTION OF ELECTRICAL (50M ROW)  
PH1-PS-23 SCALE 1:100

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. <b>PJIC</b>	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> D/C, PMD CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	TYPICAL CROSS SECTION OF ELECTRICAL (50M ROW)	AS SHOWN DRAWING NO. PH1-PS-23	DRAFT FINAL SHEET NO. 23 OF 27
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:								

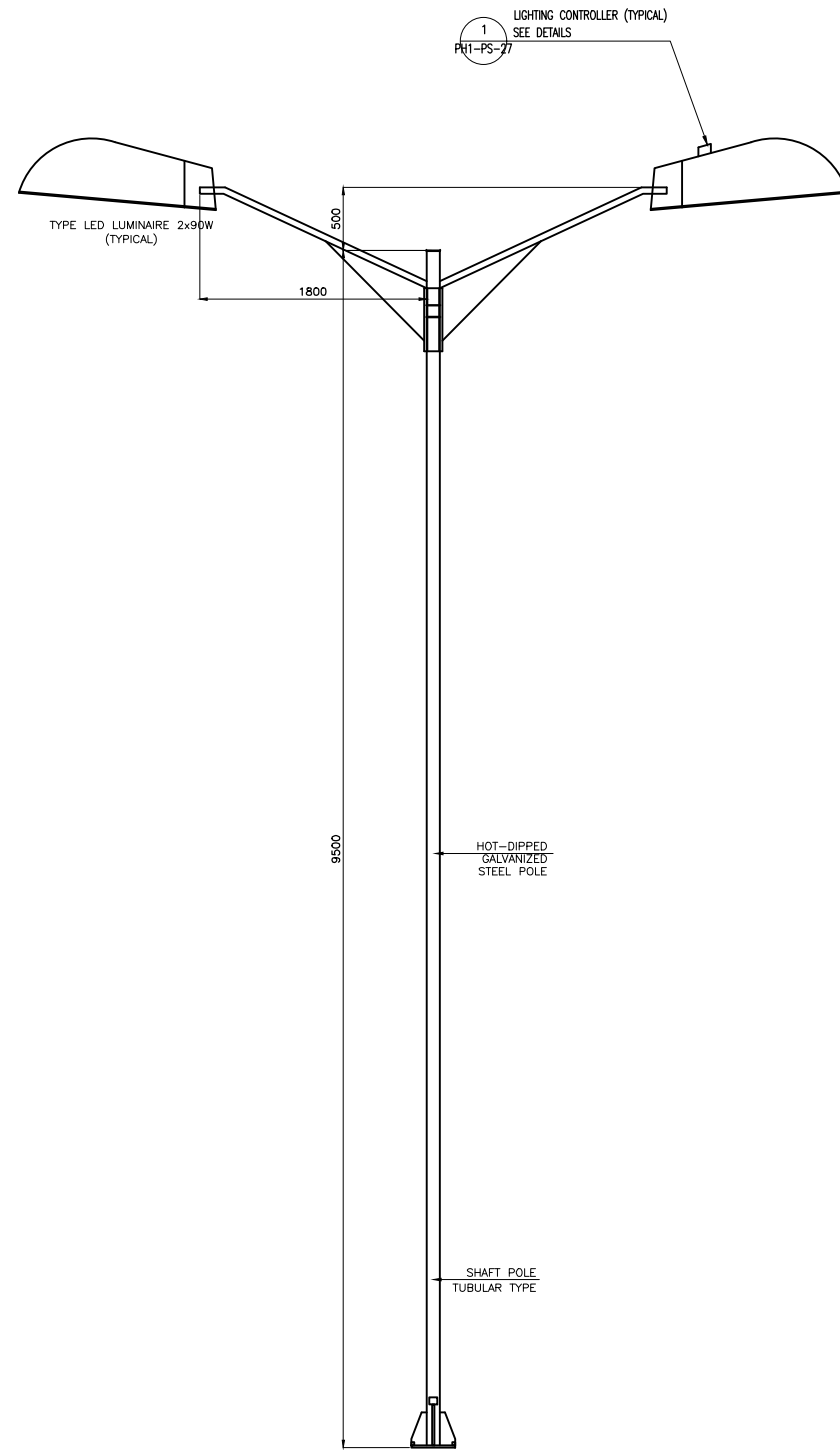




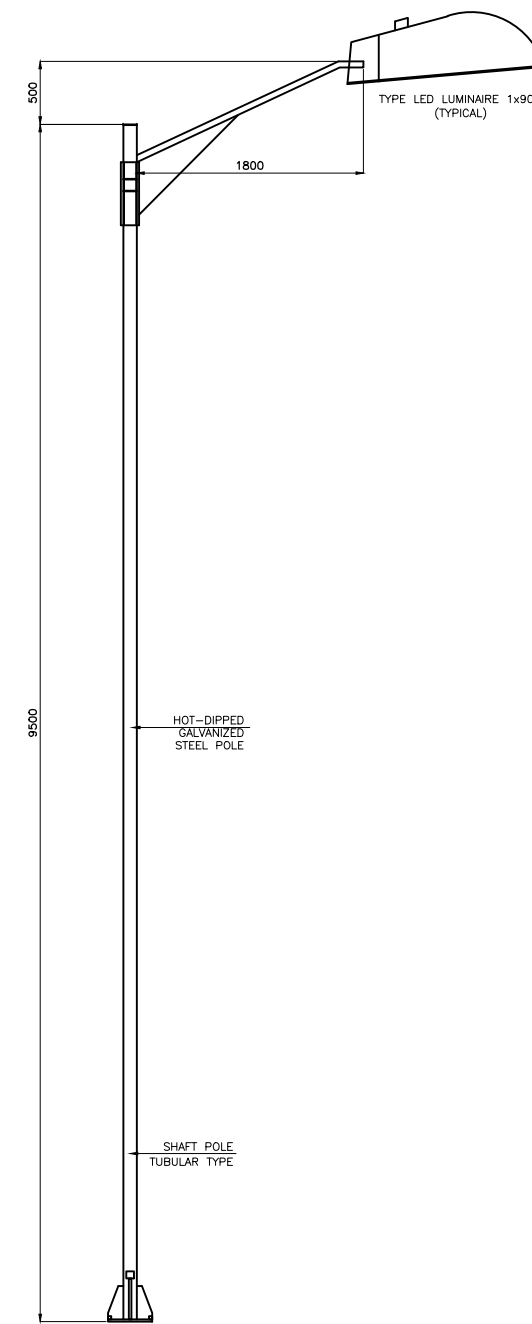
**A** GROUNDING DETAILS (TYP. TO ALL LIGHTING POLES)  
PH1-PS-24 SCALE 1:10



**1** SINGLE POLE, DOUBLE LIGHTING FIXTURES (6M)  
PH1-PS-24 SCALE 1:30



**2** SINGLE POLE, DOUBLE LIGHTING FIXTURES (10M)  
PH1-PS-24 SCALE 1:30

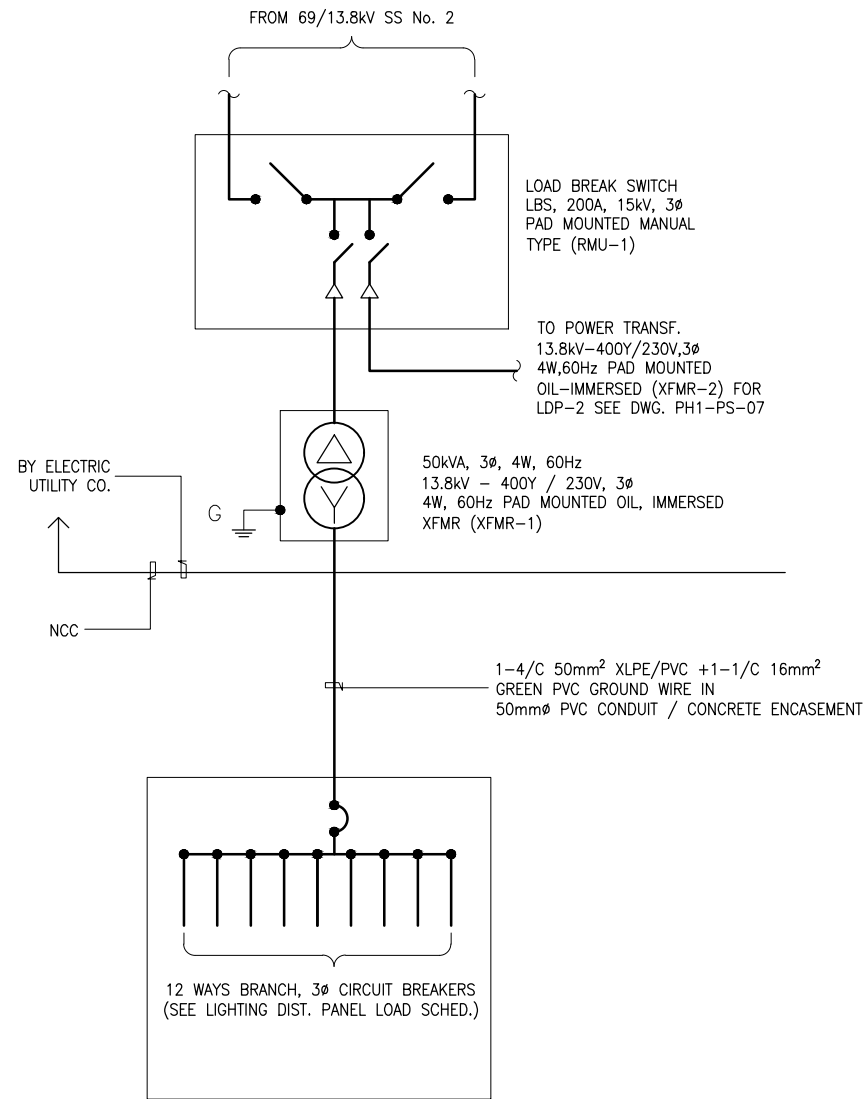


**3** SINGLE POLE, SINGLE LIGHTING FIXTURES (10M)  
PH1-PS-24 SCALE 1:30

**NOTES**

- FOR GENERAL NOTES & LEGEND SEE REF. PH1-PS-05
- FOR STREET LIGHT POLE FOUNDATION DETAILS REFER TO REFERENCE PH1-PS-20

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	<b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>RYAN PAUL S. GALURA</b> CIC, PMD CLARK PROJECTS DATE:	<b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	6M & 10M DOUBLE ARM POLE AND 10M SINGLE ARM POLE DETAILS (TYPICAL)	AS SHOWN DRAWING NO. PH1-PS-24	DRAFT FINAL SHEET NO. 24 OF 27
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:								



1 SINGLE LINE DIAGRAM  
ROAD LIGHTING DISTRIBUTION PANEL  
(LDP-1 & LDP-3)  
PH1-PS-07/13 NOT TO SCALE

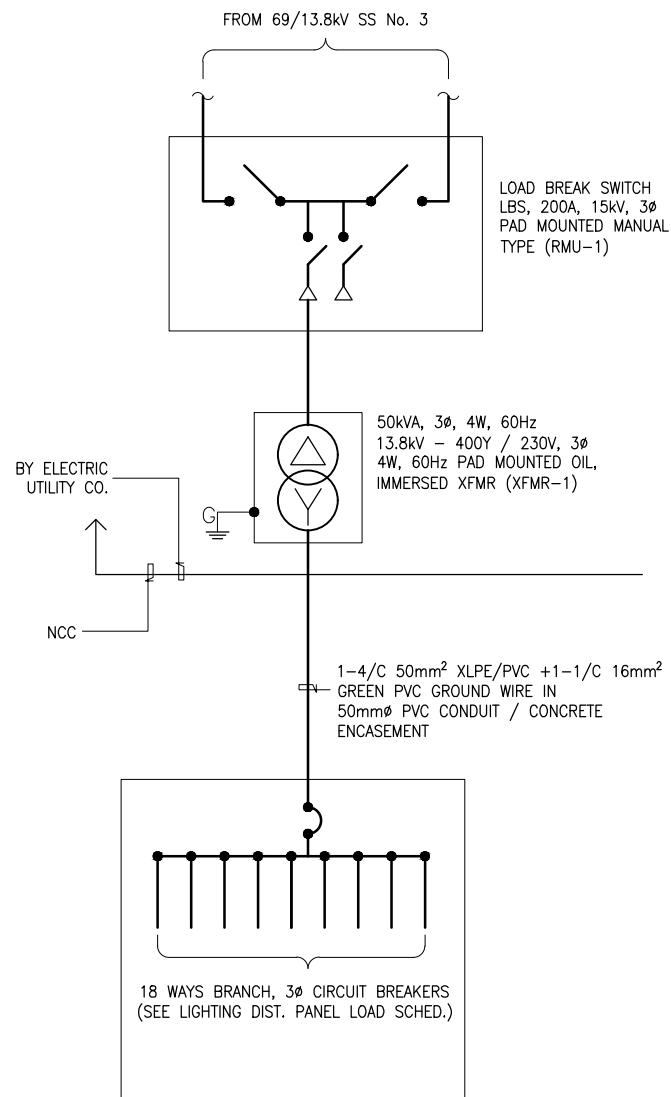
LIGHTING PANEL BOARD : LDP-1										TYPE : NEMA 3R		FEED : <input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOT					
SERVICE : 400Y/230 V, 3Æ, 4 W, 60HZ, 10 KAIC										MOUNTING : <input type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> FLOOR		LOCATION : Adjacent to S/S # 2					
LOAD DESCRIPTION	LOAD (IN VA)		CABLE		CIRCUIT BREAKER		MAIN CB				CIRCUIT BREAKER		CABLE		LOAD (IN VA)		LOAD DESCRIPTION
	3Ø	mm²	AMP	CKT	A	B	X	n	AMP	CKT	mm²	3Ø					
Lighting Pole Mounted@ road center W/ 2x 90w or 1x 90w LED type (from LPC-1 to LPC-38 with assume 90% system PF)	6200	16	20	1					2	20	16	6400					Lighting Pole Mounted@ road center W/ 2x 90w or 1x 90w LED type (from LPC-39 to LPC-76 with assume 90% system PF)
Lighting Pole Mounted@ road center W/ 2x 90w or 1x 90w LED type (from LPC-77 to LPC-98 with assume 90% system PF)	4100	16	20	3					4	20	16	4622					Lighting Pole Mounted@ north side W/ 2x 40w LED type (from LPN-1 to LPN-52 with assume 90% system P.F.)
Lighting Pole Mounted@ north side W/ 2x 40w LED type (from LPN-53 to LPN-103 with assume 90% system P.F.)	4444	16	20	5					6	20	16	4800					Lighting Pole Mounted@ south side W/ 2x 40w LED type (from LPS-1 to LPS-60 with assume 90% system P.F.)
Lighting Pole Mounted@ south side W/ 2x 40w LED type (from LPS-61 to LPS-107 with assume 90% system P.F.)	4622	16	20	7					8	20	10	2500					Pole mounted traffic lights and control units (9 locations) Assumed load = 2500va
CCTV and its Control units (assumed load = 2000va)	2000	10	20	9					10	20	-	3000					Spare (Future Load)
Spare (Future Load)	3000	-	20	11					12	20	-	3000					Spare (Future Load)
SUB-TOTAL (VA)										24356		24322		SUB-TOTAL (VA)			
CONNECTED LOAD (VA)										48688		SOURCE:		Use: 50 kva, Pad mounted, oil immersed, delta-wye, 13.8kv/400Y-230V, 3ph, 4W, 60hz			
CONNECTED LOAD CURRENT (AMP)										70.28		INCOMING		Feeder: 1-4/C 50mm² + 1/C 16mm² Green ground wire, XLPE/ PVC cable			
DEMAND FACTOR										70 (IN %)		MAIN CIRCUIT BREAKER		Use: 100AT/225AF, MCB, 3ph, 4poles, 400 V with Ground in NEMA 3R Enclosure, Pad mounted type, outdoor type			
DEMAND LOAD (VA)										34082		REMARKS:		For location of transformer and LDP-1 see reference PH1-PS-07			
DEMAND LOAD CURRENT (AMP)										49							

2 PANEL BOARD LOAD SCHEDULE (LDP-1)  
PH1-PS-07 NOT TO SCALE

- NOTES
- FOR GENERAL NOTES SEE PH1-PS-05
  - FOR LEGENDS SEE PH1-PS-05
  - FOR EQUIPMENT LOCATION REFER TO PH1-PS-07 & 13

**NOTES**

- FOR GENERAL NOTES SEE PH1-PS-05
- FOR LEGENDS SEE PH1-PS-05
- FOR EQUIPMENT LOCATION REFER TO PH1-PS-07 & 13



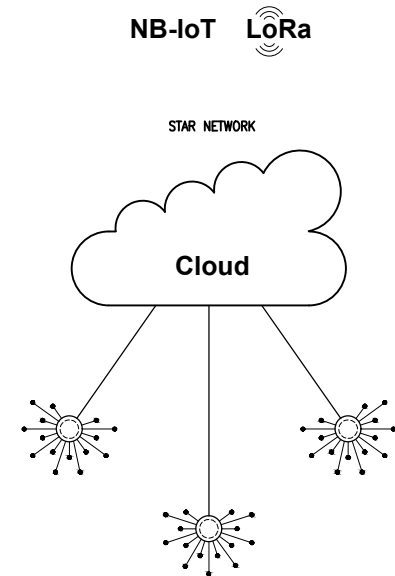
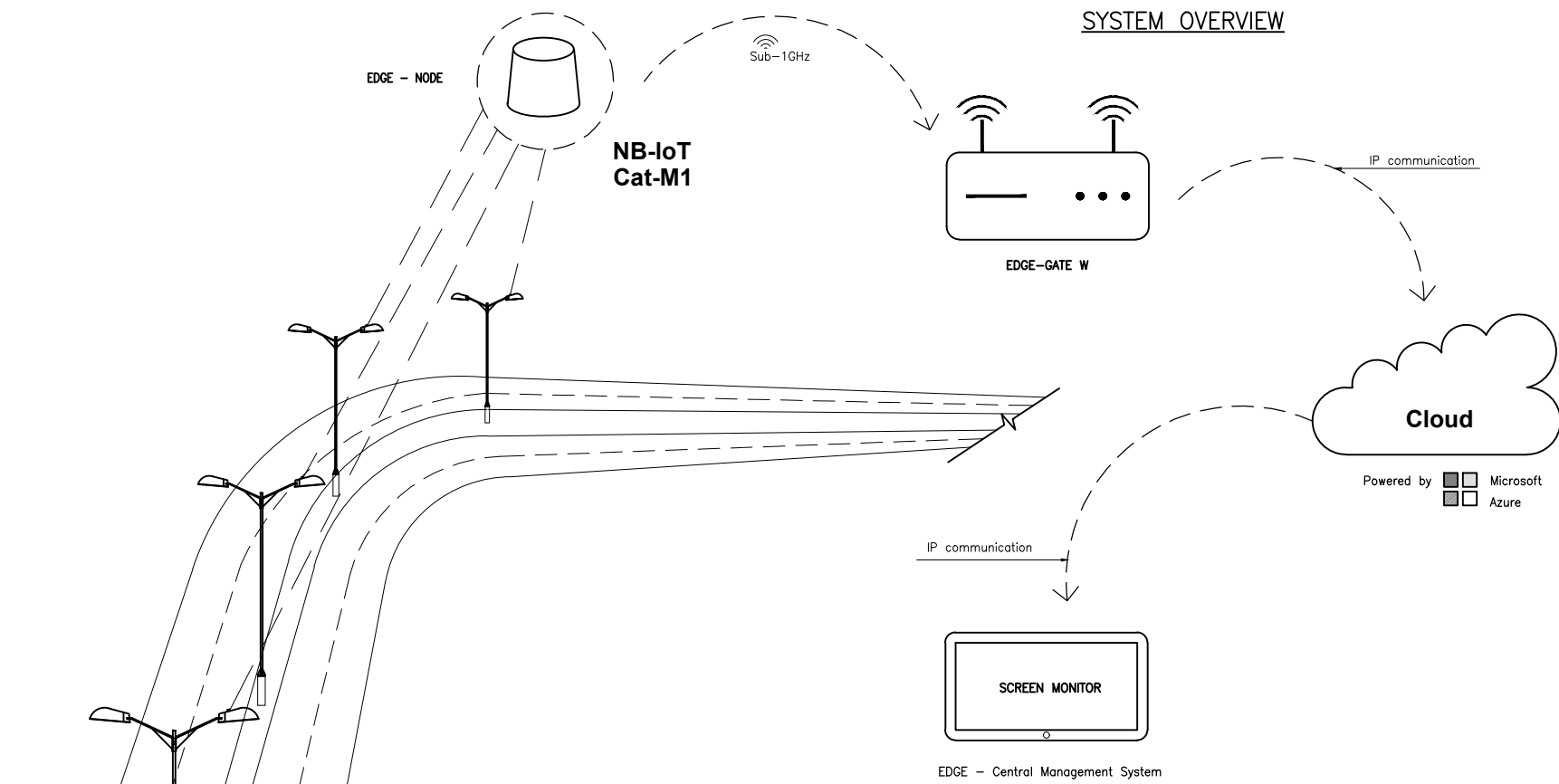
**1** SINGLE LINE DIAGRAM ROAD LIGHTING DISTRIBUTION PANEL (LDP-2)  
PH1-PS-07 NOT TO SCALE

LIGHTING PANEL BOARD : LDP-2				TYPE : NEMA 3R				FEED : <input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOT						
SERVICE : 400Y/230 V, 3Ø, 4 W, 60HZ, 10 KAIC				MOUNTING : <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH <input checked="" type="checkbox"/> FLOOR				LOCATION : Adjacent to S/S #2						
LOAD DESCRIPTION	LOAD (IN VA)		CIRCUIT BREAKER	MAIN CB			CIRCUIT BREAKER	CABLE		LOAD (IN VA)	LOAD DESCRIPTION			
	3Ø	mm²		A	B	C		AMP	mm²			3Ø		
Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-99 to LFC-134 with assume 90% system P.F.)	7200	16	20	1			2	20	16	4800	Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-135 to LFC-159 with assume 90% system P.F.)			
Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-160 to LFC-179 with assume 90% system P.F.)	3800	16	20	3			4	20	16	3200	Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-180 to LFC-198 with assume 90% system P.F.)			
Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-199 to LFC-210 with assume 90% system P.F.)	2800	16	20	5			6	20	16	2400	Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-211 to LFC-232 with assume 90% system P.F.)			
Lighting Pole Mounted @ north side W/ 2x 40w LED type (from LFN-104 to LFN-173 with assume 90% system P.F.)	6222	16	20	7			8	20	16	3556	Lighting Pole Mounted @ north side W/ 2x 40w LED type (from LFN-174 to LFN-213 with assume 90% system P.F.)			
Lighting Pole Mounted @ north side W/ 2x 40w LED type (from LFN-214 to LFN-243 with assume 90% system P.F.)	2667	16	20	9			10	20	16	2222	Lighting Pole Mounted @ north side W/ 2x 40w LED type (from LFN-244 to LFN-269 with assume 90% system P.F.)			
Lighting Pole Mounted @ south side W/ 2x 40w LED type (from LPS-108 to LPS-177 with assume 90% system P.F.)	6222	16	20	11			12	20	16	3556	Lighting Pole Mounted @ south side W/ 2x 40w LED type (from LPS-178 to LPS-217 with assume 90% system P.F.)			
Lighting Pole Mounted @ south side W/ 2x 40w LED type (from LPS-218 to LPS-257 with assume 90% system P.F.)	2667	16	20	13			14	20	16	1867	Lighting Pole Mounted @ south side W/ 2x 40w LED type (from LPS-258 to LPS-268 with assume 90% system P.F.)			
CCTV and its Control units (assumed load = 2500va)	2500	10	20	15			16	20	10	2000	Pole mounted traffic lights and control units (9 locations) Assumed load = 2000va			
Spare (Future Load)	3000	-	20	17			18	20	-	3000	Spare (Future Load)			
SUB-TOTAL (VA)				37078			26601				SUB-TOTAL (VA)			
CONNECTED LOAD (VA)				63679			SOURCES:				Use: 50 kva, Pad mounted, oil immersed, delta-wye, 13.8kV/400V-230V, 3Ø, 4W, 60Hz			
CONNECTED LOAD CURRENT (AMP)				91.82			INCOMING:				Feeder: 3-4/C 150mm² 4/C 50 mm² G ground wire, XLPE/ PVC cable			
DEMAND FACTOR				70 (IN %)			MAIN CIRCUIT BREAKER:				Use: 100A/7225AF, MCB, 3Ø, 4poles, 400 V with Ground in NEMA 3R Enclosure, Pad mounted type, outdoor type			
DEMAND LOAD (VA)				44575			REMARKS:				For location of transformer and LDP-1 see reference PH1-PS-07			
DEMAND LOAD CURRENT (AMP)				64										

**2** PANEL BOARD LOAD SCHEDULE (LDP-2)  
PH1-PS-07 NOT TO SCALE

LIGHTING PANEL BOARD : LDP-3				TYPE : NEMA 3R				FEED : <input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOT						
SERVICE : 400Y/230 V, 3Ø, 4 W, 60HZ, 10 KAIC				MOUNTING : <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH <input checked="" type="checkbox"/> FLOOR				LOCATION :						
LOAD DESCRIPTION	LOAD (IN VA)		CIRCUIT BREAKER	MAIN CB			CIRCUIT BREAKER	CABLE		LOAD (IN VA)	LOAD DESCRIPTION			
	3Ø	mm²		A	B	C		AMP	mm²			3Ø		
Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-238 to LFC-256 with assume 90% system P.F.)	6060	16	20	1			2	20	16	6280	Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-257 to LFC-286 with assume 90% system P.F.)			
Lighting Pole Mounted @ road center W/ 2x 90w or 1x 90w LED type (from LFC-287 to LFC-318 with assume 90% system P.F.)	4070	16	20	3			4	20	16	4622	Lighting Pole Mounted @ north side W/ 2x 40w LED type (from LFN-264 to LFN-313 with assume 90% system P.F.)			
Lighting Pole Mounted @ north side W/ 2x 40w LED type (from LFN-314 to LFN-363 with assume 90% system P.F.)	4444	16	20	5			6	20	16	4800	Lighting Pole Mounted @ south side W/ 2x 40w LED type (from LPS-266 to LPS-315 with assume 90% system P.F.)			
Lighting Pole Mounted @ south side W/ 2x 40w LED type (from LPS-316 to LPS-355 with assume 90% system P.F.)	4622	16	20	7			8	20	10	2500	Pole mounted traffic lights and control units (9 locations) Assumed load = 2000va			
CCTV and its control units (assumed load = 2000va)	2000	10	20	9			10	20	-	3000	Spare (Future Load)			
Spare (Future Load)	3000	-	20	11			12	20	-	3000	Spare (Future Load)			
SUB-TOTAL (VA)				24196			24202				SUB-TOTAL (VA)			
CONNECTED LOAD (VA)				48398			SOURCES:				Use: 50 kva, Pad mounted, oil immersed, delta-wye, 13.8kV/400V-230V, 3Ø, 4W, 60Hz			
CONNECTED LOAD CURRENT (AMP)				69.36			INCOMING:				Feeder: 3-4/C 150mm² 4/C 50 mm² G ground wire, XLPE/ PVC cable			
DEMAND FACTOR				70 (IN %)			MAIN CIRCUIT BREAKER:				Use: 100A/7225AF, MCB, 3Ø, 4poles, 400 V with Ground in NEMA 3R Enclosure, Pad mounted type, outdoor type			
DEMAND LOAD (VA)				33939			REMARKS:				For location of transformer and LDP-3 see reference PH1-PS-13			
DEMAND LOAD CURRENT (AMP)				49										

**3** PANEL BOARD LOAD SCHEDULE (LDP-3)  
PH1-PS-13 NOT TO SCALE

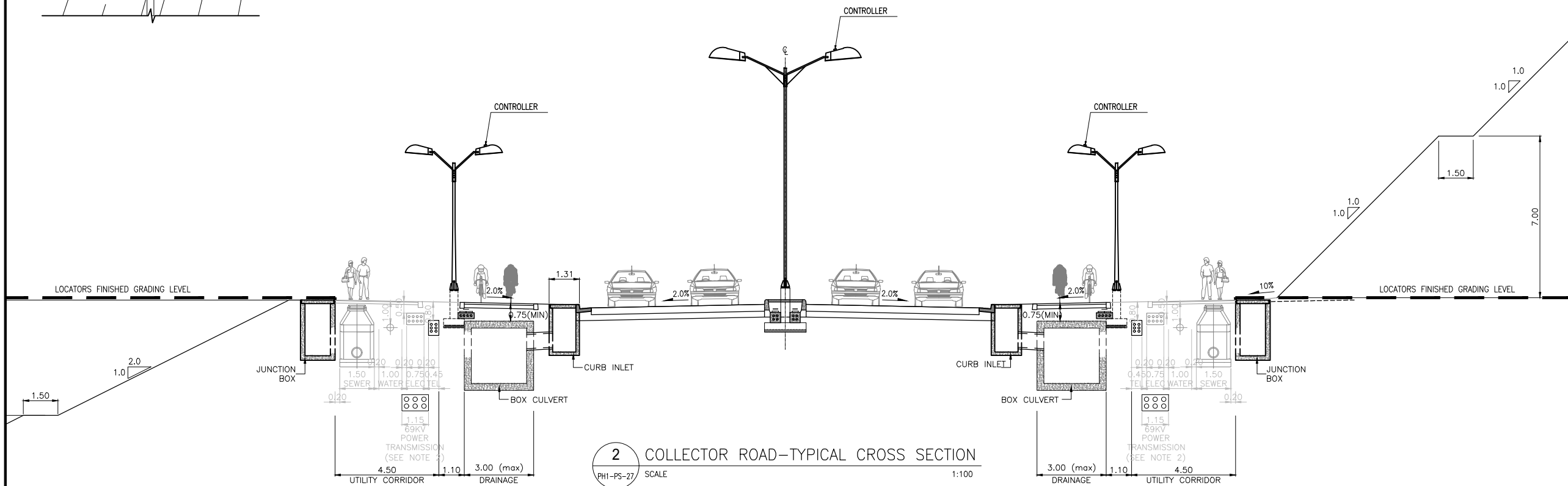


**LEGENDS & SYMBOLS**

- Base Station
- Node

DATA IS COMMUNICATED AND COLLECTED BY LIGHTING CONTROLLERS VIA NB-Lot / LoRa BASE STATIONS SET UP BY TELECOM OPERATORS TO THE CLOUD.

**1 STREETLIGHT CELLULAR STANDARD**  
PH1-PS-27 NOT TO SCALE



**NOTES**

- FOR GENERAL NOTES SEE PH1-PS-05
- FUNCTIONALITIES (SEE TABLE BELOW)

FUNCTIONALITY	FEATURE
DATA DASHBOARD	• USER-FRIENDLY INTERFACE TO EFFICIENTLY TRACK, ANALYZE AND DISPLAY KEY DATA IN THE FORM OF CHARTS AND TABLES
MAP VIEW	• STREETLIGHT LOCATION AND STATUS DISPLAY • MONITORING MANAGEMENT WITH MAP VIEW
REAL-TIME MONITORING	• LIVE DATA OF STREETLIGHT STATUS, ENERGY USAGE, ENERGY COST AND CO2 EMISSION • REAL-TIME SYSTEM WARNING
REMOTE CONTROL	• ACTIVATION, DEACTIVATION AND DIMMING • SINGLE CONTROL / GROUP CONTROL / CIRCUIT CONTROL
SCHEDULE MANAGER	• ONE-TIME, DAILY, WEEKLY AND MONTHLY SCHEDULE MANAGEMENT
SYSTEM HEALTH	• ABNORMAL POWER CONSUMPTION, ACTIVATION AND DEACTIVATION DIAGNOSIS AND REPAIR SUGGESTION • WARNINGS OF POWER THEFT, LAMP MALFUNCTIONS • CUSTOMIZATION OF WARNING AWARENESS TO USERS AND MAINTENANCE SERVICE PROVIDERS
ASSET MANAGER	• CONTROLLERS, CIRCUIT, GATEWAYS, METERS AND LAMPS MANAGEMENT • STATUS AND INFORMATION REPORT
EVENT VIEW	• OPERATION OCCURRENCES RECORDS FOR FUTURE TRACKING AND MONITORING • CSV REPORT
REPAIR MANAGER	• REPAIR PROCEDURE WITH STATUS REPORT • TRACKING RECORDS OF REPAIR AND MAINTENANCE
ENERGY SAVING REPORT	• ANALYSIS OF HISTORICAL POWER CONSUMPTION AND ENERGY-SAVING COMPARISONS (DAILY/WEEKLY/MONTHLY/ANNUALLY) • ANALYSIS OF REPAIRS, AVAILABILITY AND LIFE SPAN
USER ACCESS MANAGER	• SYSTEM ACCESS CONTROL BY ADMINISTRATORS • GROUPING FUNCTION FOR MANAGING USER AUTHORIZATION
BROWSER	• WEB-BASED
CUSTOMIZED OPTIONS	• INTEGRATING WITH EXISTING PIPELINE INFORMATION, CITIZENS FAULT REPORTING SERVICE • EXISTING LUMINARIES FROM OTHER MANUFACTURER ARE ALSO INCLUDED IN THE SYSTEM

**3. USER INTERFACE (SEE TABLE BELOW)**





CATEGORY	OUTPUT
LIVE DATA	• ENERGY • ENERGY COST • CO2 EMISSION
ASSET MANAGEMENT	• ASSETS
MAINTENANCE & SERVICE MANAGEMENT	• SYSTEM HEALTH • REPAIR REQUEST
REPORT	• ENERGY COST • CO2 EMISSION • REPAIR LOG • ENERGY USAGE
LIGHT CONTROL	• LIGHTS CONTROL • LIGHTS OFF/ON

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	<b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>RYAN PAUL S. GALURA</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____ <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>ROAD LIGHTING CONTROLLER SYSTEM</b>	AS SHOWN DRAWING NO. PH1-PS-27	DRAFT FINAL SHEET NO. 27 OF 27

# TRAFFIC SIGNALIZATION

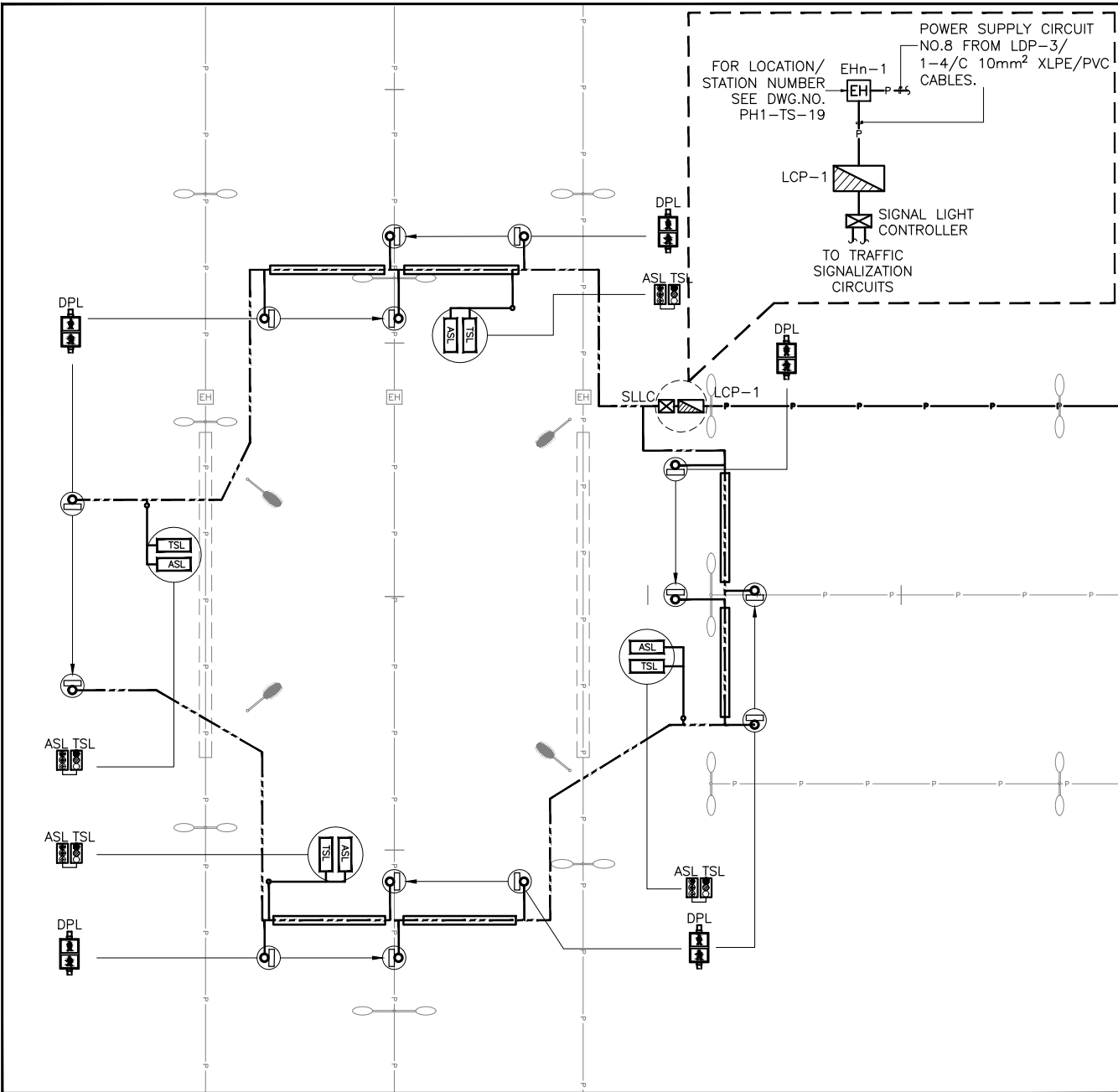
DWG No.	SHEET CONTENT	SHEET NO.
PH1-TS-01	TRAFFIC SIGNALIZATION DRAWING INDEX	1 OF 6
PH1-TS-02	ROAD 2 TRAFFIC SIGNAL LIGHT LOCATION PLAN	2 OF 6
PH1-TS-03	ROAD 2 INTERSECTION-11 (STA.0+000) LIGHTING AND TRAFFIC SIGNAL LAYOUT	3 OF 6
PH1-TS-04	ROAD 2 INTERSECTION-26 (STA.0+820) LIGHTING AND TRAFFIC SIGNAL LAYOUT	4 OF 6
PH1-TS-05	ROAD 2 INTERSECTION-52 (STA.2+180) LIGHTING AND TRAFFIC SIGNAL LAYOUT	5 OF 6
PH1-TS-06	TRAFFIC SIGNAL LIGHT, PEDESTRIAN LIGHT AND FOOTING DETAILS	6 OF 6

1 TRAFFIC SIGNALIZATION DRAWING INDEX  
PH1-TS-01 NOT TO SCALE

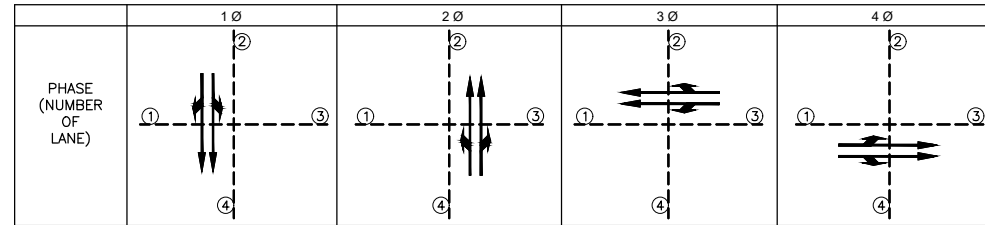
CONSULTANTS   NIPPON KOEI CO.,LTD.	 <b>PHILKOEI INTERNATIONAL, INC.</b> <small>CONSULTANTS PLANNERS ENGINEERS</small>	DESIGNED BY <b>CHARLES P. PANTE</b> <small>ELECTRICAL ENGINEER</small> DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> <small>CO-TEAM LEADER</small> DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> <small>PROJECT MANAGER</small> DATE: _____	REPUBLIC OF THE PHILIPPINES   PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 <small>Board of Construction and Development Authority</small> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> <small>Dir. PMD CLARK PROJECTS</small> DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> <small>SVP. CONVERSION AND DEVELOPMENT GROUP</small> DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY          ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)          PHASE 1</b> <small>R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</small>	SHEET CONTENT <b>TRAFFIC SIGNALIZATION DRAWING INDEX</b>	SCALE AS SHOWN DRAWING NO. PH1-TS-01	DRAWING STATUS DRAFT FINAL SHEET NO. 1 OF 6
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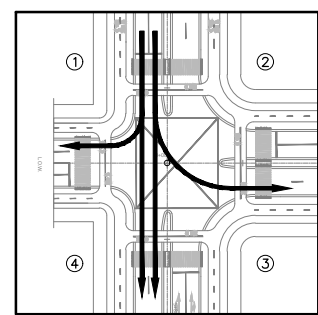


**1 ROAD 2 INTERSECTION-11 (STA.0+000) LIGHTING AND TRAFFIC SIGNAL LAYOUT**  
PH1-TS-03 SCALE 1:250

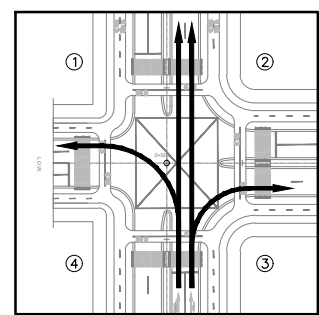


NOTES: 1. INITIAL PHASING TIME WILL BE GIVEN AT INSTALLATION.  
2. PHASING TIME WILL B ADJUSTED IN 2-3 DAYS, 1-2 WEEKS, QUARTERLY AND AT THE END OF ONE YEAR BY THE ENGINEER BASED ON THE ACTUAL TRAFFIC BY DIRECTION COUNTED BY THE CONTRACTOR

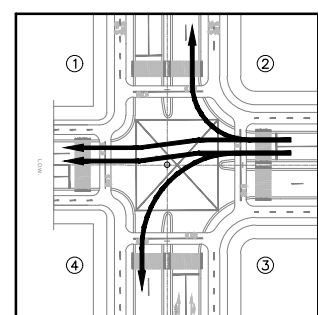
**TRAFFIC SIGNAL PHASE (ALL CROSS INTERSECTION)**



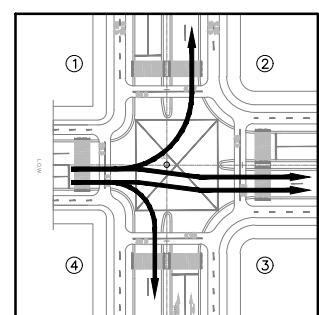
**2 PHASE 1**  
PH1-TS-03 SCALE 1:1000



**3 PHASE 2**  
PH1-TS-03 SCALE 1:1000



**4 PHASE 3**  
PH1-TS-03 SCALE 1:1000



**5 PHASE 3**  
PH1-TS-03 SCALE 1:1000

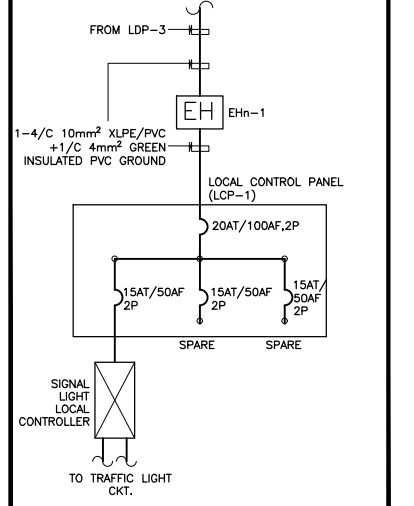
SUMMARY OF QUANTITY	
ITEM	QUANTITY
1. 300mm RYG FULL BALL TRAFFIC LIGHT	4 PCS
2. 300mm ARROW TRAFFIC LIGHT	4 PCS
3. DYNAMIC PEDESTRIAN LIGHT	22 PCS
4. 600*800mm COUNTDOWN TIMER	4 PCS
5. TRAFFIC LIGHT CONTROLLER	1 PC
6. TRAFFIC LIGHT POLE	4 PCS
7. PEDESTRIAN LIGHT POLE	14 PCS

**GENERAL NOTES:**

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT MATERIALS AND INSTALLATIONS SHALL BE AS PER APPROVED DRAWINGS AND IN ACCORDANCE W/ INTERNATIONAL / PEC CODES AND STANDARDS.
- CABLES THAT CROSS CONCRETE ROAD WAYS SHALL BE RUN INSIDE REINFORCED CONCRETE DUCTBANK.
- CABLE TRENCH FOR TRAFFIC LIGHTS CABLES SHALL BE PROVIDED WITH SAND BEDDING BETWEEN BELOW AND TOP PART OF BURIED CONDUIT/ CABLES W/ 300mm TOTAL FILL. TOP LAYER OF SAND FILL SHALL BE PROVIDED W/ CONCRETE TILES ALONG CABLE ROUTE AND TERRA TAPE CABLE EARLY WARNING TAPE.
- ELECTRICAL HANDHOLE (EH) IS THE LOCATION POINT FOR SPLICING OF CABLES (CABLES JOINTING) AND APPROXIMATELY TO BE INSTALLED @ 250M DISTANCE APART FROM THE OTHER HANDHOLE.
- WHENEVER REQUIRED AND NECESSARY, PULL BOXES AND JUNCTION BOXES OF APPROPRIATE SIZES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATIONS ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN.
- THE CONTRACTOR IS NOT ALLOWED TO SUBSTITUTE THE MATERIALS IN THE SPECIFICATION WITHOUT THE APPROVAL AT THE ELECTRICAL DESIGN ENGINEER.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- STANDARD COLOR CODING OF THE WIRE SHALL BE IMPLEMENTED.
- THE ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN
- ALL UNUSED U/G CONDUITS SHALL BE PROVIDED WITH PLUGS OR APPROVED SEALING MATERIALS FOR MOIST/DIRTS ENTRY AND INSECT/RODENT INFESTATION.
- CONTRACTOR TO DETERMINE THE FINAL LOCATION OF LCP ALONG WITH SIGNAL LIGHT CONTROLLER. PROVIDE MOUNTING PEDESTAL PAD WITH U/G CONDUIT SLEEVES FOR INCOMING/OUTGOING FEEDER CIRCUITS ENTRY.
- TERMINAL BOXES SHALL BE OF STEEL, ZINC CHROMATE PROTECTED WITH COVER.

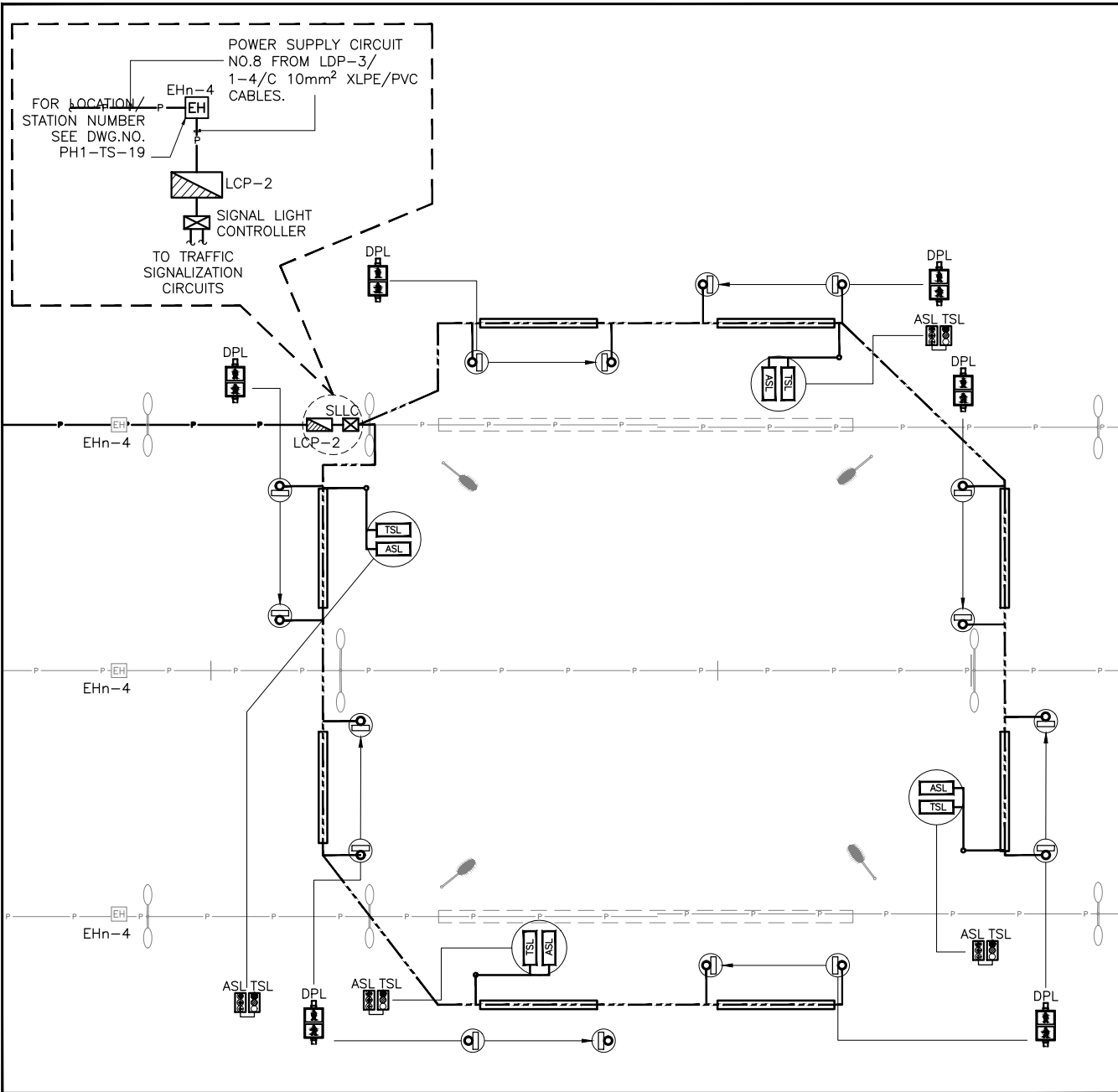
**LEGENDS:**

LP <sub>C</sub>	LIGHTING POLE LOCATED AT ROAD CENTER ISLAND
LP <sub>S</sub>	LIGHTING POLE LOCATED AT SOUTHSIDE OF ROAD
LP <sub>N</sub>	LIGHTING POLE LOCATED AT NORTHSIDE OF ROAD
-P-	LV POWER CABLE IN HDPE CONDUIT DUCTS OR CONCRETE DUCT BANK FOR ROAD CROSSING
LCP	LOCAL CONTROL PANEL PAD MOUNTED/OUTDOOR TYPE
LDP	LIGHTING DISTRIBUTION PANEL BOARD / OUTDOOR TYPE MOUNTED PAD (LOW VOLTAGE)
SLLC	SIGNAL LIGHT LOCAL CONTROLLER
EH	ELECTRICAL HANDHOLE
(Symbol)	TRAFFIC SIGNAL CABLE DUCTBANK CONCRETE (FOR ROAD CROSSING)
(Symbol)	DYNAMIC PEDESTRIAN LIGHT
ASL	TRAFFIC SIGNAL LANTERN (ASL - ARROW SIGNAL LIGHT)
TSL	TRAFFIC SIGNAL LIGHT (TSL - TRAFFIC SIGNAL LIGHT)

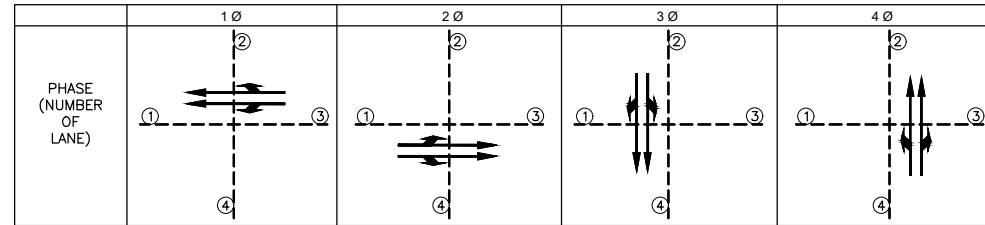


**SINGLE LINE DIAGRAM**



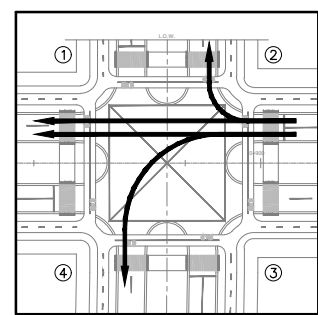


**1 ROAD 2 INTERSECTION-26 (STA.0+820) LIGHTING AND TRAFFIC SIGNAL LAYOUT**  
PH1-TS-04 SCALE 1:250

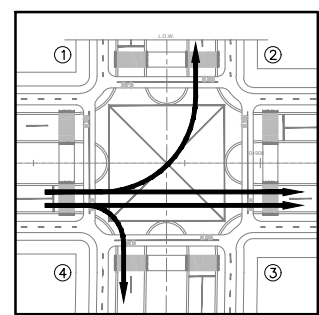


NOTES: 1. INITIAL PHASING TIME WILL BE GIVEN AT INSTALLATION.  
2. PHASING TIME WILL BE ADJUSTED IN 2-3 DAYS, 1-2 WEEKS, QUARTERLY AND AT THE END OF ONE YEAR BY THE ENGINEER BASED ON THE ACTUAL TRAFFIC BY DIRECTION COUNTED BY THE CONTRACTOR

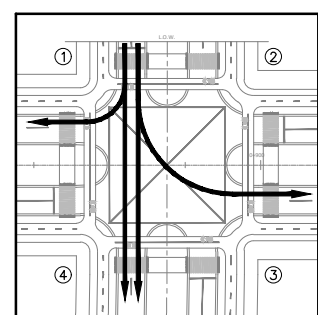
**TRAFFIC SIGNAL PHASE (ALL CROSS INTERSECTION)**



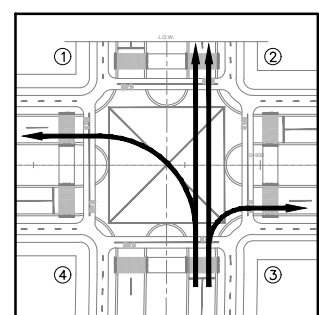
**2 PHASE 1**  
PH1-TS-04 SCALE 1:1000



**3 PHASE 2**  
PH1-TS-04 SCALE 1:1000



**4 PHASE 3**  
PH1-TS-04 SCALE 1:1000



**5 PHASE 3**  
PH1-TS-04 SCALE 1:1000

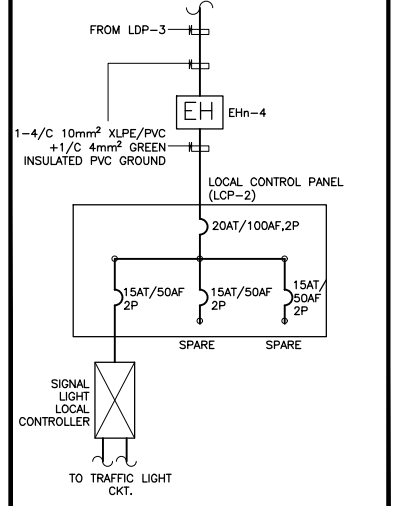
SUMMARY OF QUANTITY	
ITEM	QUANTITY
1. 300mm RYG FULL BALL TRAFFIC LIGHT	4 PCS
2. 300mm ARROW TRAFFIC LIGHT	4 PCS
3. DYNAMIC PEDESTRIAN LIGHT	24 PCS
4. 600*800mm COUNTDOWN TIMER	4 PCS
5. TRAFFIC LIGHT CONTROLLER	1 PC
6. TRAFFIC LIGHT POLE	4 PCS
7. PEDESTRIAN LIGHT POLE	16 PCS

**GENERAL NOTES:**

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
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- CABLES THAT CROSS CONCRETE ROAD WAYS SHALL BE RUN INSIDE REINFORCED CONCRETE DUCTBANK.
- CABLE TRENCH FOR TRAFFIC LIGHTS CABLES SHALL BE PROVIDED WITH SAND BEDDING BETWEEN BELOW AND TOP PART OF BURIED CONDUIT/ CABLES W/ 300mm TOTAL FILL. TOP LAYER OF SAND FILL SHALL BE PROVIDED W/ CONCRETE TILES ALONG CABLE ROUTE AND TERRA TAPE CABLE EARLY WARNING TAPE.
- ELECTRICAL HANDHOLE (EH) IS THE LOCATION POINT FOR SPLICING OF CABLES (CABLES JOINING) AND APPROXIMATELY TO BE INSTALLED @ 250M DISTANCE APART FROM THE OTHER HANDHOLE.
- WHENEVER REQUIRED AND NECESSARY, PULL BOXES AND JUNCTION BOXES OF APPROPRIATE SIZES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATIONS ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN.
- THE CONTRACTOR IS NOT ALLOWED TO SUBSTITUTE THE MATERIALS IN THE SPECIFICATION WITHOUT THE APPROVAL AT THE ELECTRICAL DESIGN ENGINEER.
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- CONTRACTOR TO DETERMINE THE FINAL LOCATION OF LCP ALONG WITH SIGNAL LIGHT CONTROLLER. PROVIDE MOUNTING PEDESTAL PAD WITH U/G CONDUIT SLEEVES FOR INCOMING/OUTGOING FEEDER CIRCUITS ENTRY.
- TERMINAL BOXES SHALL BE OF STEEL, ZINC CHROMATE PROTECTED WITH COVER.

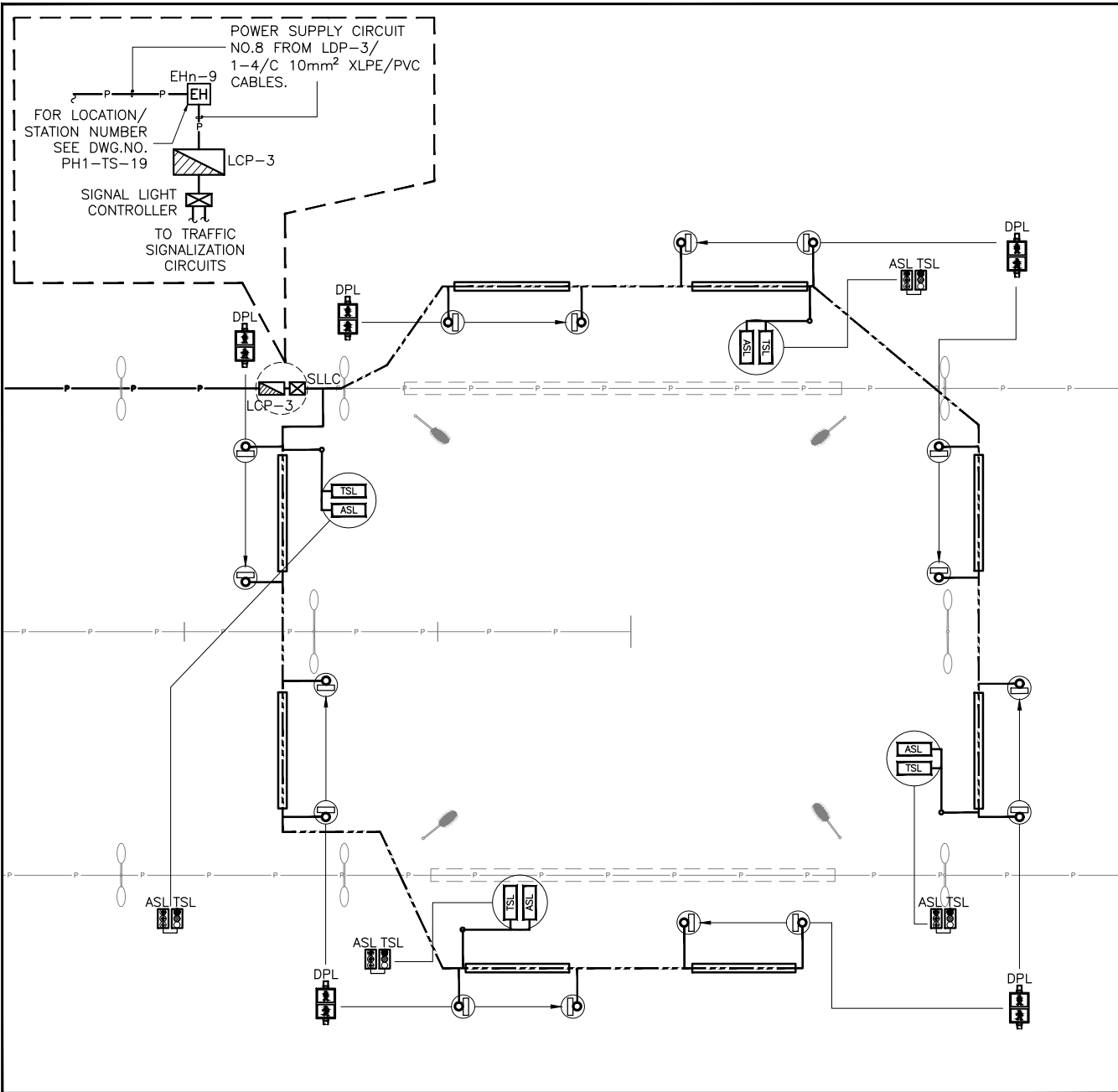
**LEGENDS:**

LP <sub>C</sub>	LIGHTING POLE LOCATED AT ROAD CENTER ISLAND
LP <sub>S</sub>	LIGHTING POLE LOCATED AT SOUTHSIDE OF ROAD
LP <sub>N</sub>	LIGHTING POLE LOCATED AT NORTHSIDE OF ROAD
P	LV POWER CABLE IN HDPE CONDUIT DUCTS OR CONCRETE DUCT BANK FOR ROAD CROSSING
LCP	LOCAL CONTROL PANEL PAD MOUNTED/OUTDOOR TYPE
LDP	LIGHTING DISTRIBUTION PANEL BOARD / OUTDOOR TYPE MOUNTED PAD (LOW VOLTAGE)
SLLC	SIGNAL LIGHT LOCAL CONTROLLER
EH	ELECTRICAL HANDHOLE
	TRAFFIC SIGNAL CABLE DUCTBANK CONCRETE (FOR ROAD CROSSING)
	DYNAMIC PEDESTRIAN LIGHT
ASL	TRAFFIC SIGNAL LANTERN (ASL - ARROW SIGNAL LIGHT)
TSL	(TSL - TRAFFIC SIGNAL LIGHT)

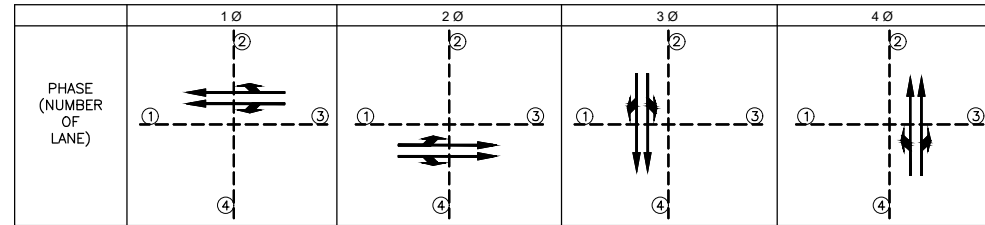


**SINGLE LINE DIAGRAM**

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	<b>BCDA</b> BUREAU OF CONSTRUCTION AND DEVELOPMENT ADMINISTRATION	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 0+600) & R2 (STA. 0+000 - STA. 2+220)		<b>ROAD 2 INTERSECTION-26 (STA.0+820) LIGHTING AND TRAFFIC SIGNAL LAYOUT</b>	AS SHOWN DRAWING NO. PH1-TS-04	DRAFT FINAL SHEET NO. 4 OF 6	
	<b>RYAN PAUL S. GALURA</b> D.C. PMD CLARK PROJECTS DATE:	<b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>PTJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<b>RECOMMENDING APPROVAL</b>		<b>APPROVED BY</b>		

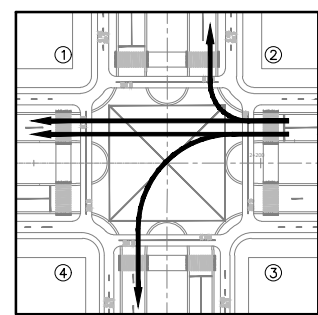


1 ROAD 2 INTERSECTION-52 (STA.2+180)  
LIGHTING AND TRAFFIC SIGNAL LAYOUT  
PH1-TS-05 SCALE 1:250

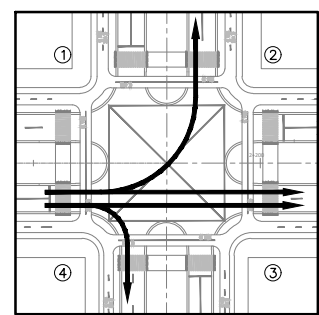


NOTES: 1. INITIAL PHASING TIME WILL BE GIVEN AT INSTALLATION.  
2. PHASING TIME WILL BE ADJUSTED IN 2-3 DAYS, 1-2 WEEKS, QUARTERLY AND AT THE END OF ONE YEAR BY THE ENGINEER BASED ON THE ACTUAL TRAFFIC BY DIRECTION COUNTED BY THE CONTRACTOR

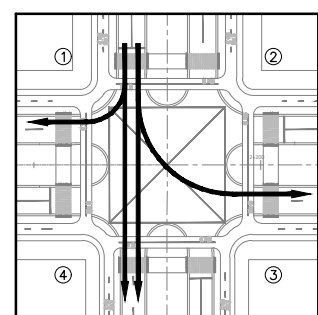
TRAFFIC SIGNAL PHASE (ALL CROSS INTERSECTION)



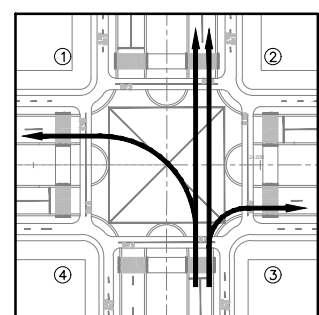
2 PHASE 1  
PH1-TS-05 SCALE 1:1000



3 PHASE 2  
PH1-TS-05 SCALE 1:1000



4 PHASE 3  
PH1-TS-05 SCALE 1:1000



5 PHASE 3  
PH1-TS-05 SCALE 1:1000

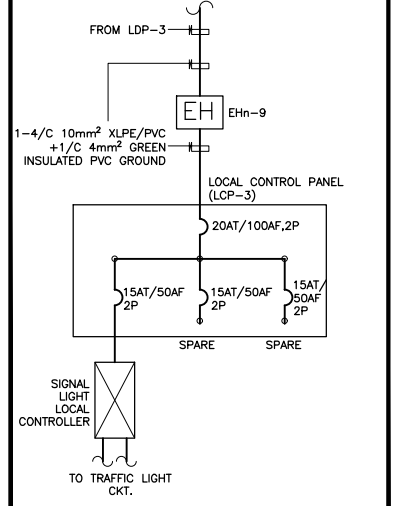
SUMMARY OF QUANTITY	
ITEM	QUANTITY
1. 300mm RYG FULL BALL TRAFFIC LIGHT	4 PCS
2. 300mm ARROW TRAFFIC LIGHT	4 PCS
3. DYNAMIC PEDESTRIAN LIGHT	24 PCS
4. 600*800mm COUNTDOWN TIMER	4 PCS
5. TRAFFIC LIGHT CONTROLLER	1 PC
6. TRAFFIC LIGHT POLE	4 PCS
7. PEDESTRIAN LIGHT POLE	16 PCS

GENERAL NOTES:

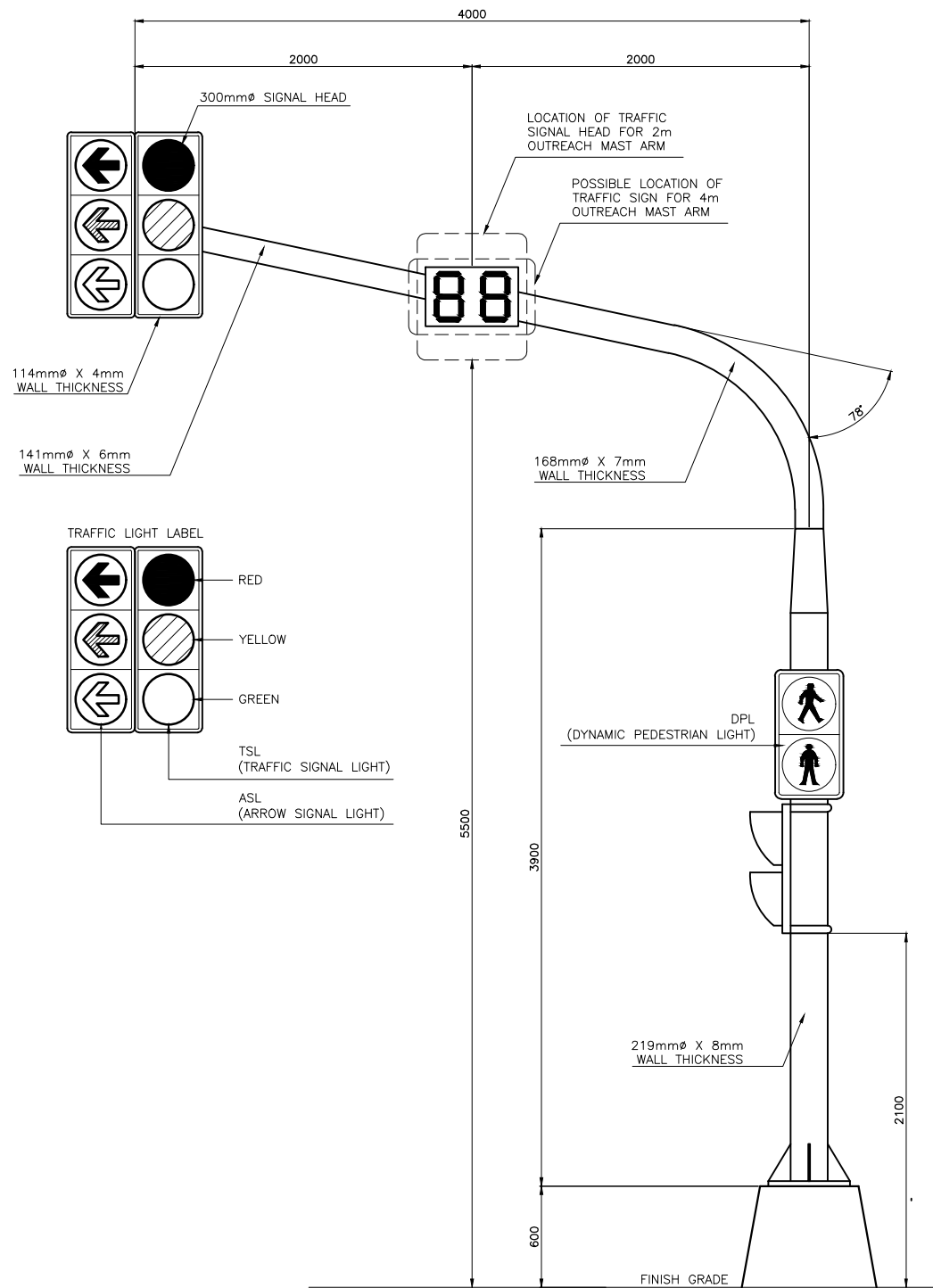
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- CONTRACTOR TO DETERMINE THE FINAL LOCATION OF LCP ALONG WITH SIGNAL LIGHT CONTROLLER. PROVIDE MOUNTING PEDESTAL PAD WITH U/G CONDUIT SLEEVES FOR INCOMING/OUTGOING FEEDER CIRCUITS ENTRY.
- TERMINAL BOXES SHALL BE OF STEEL, ZINC CHROMATE PROTECTED WITH COVER.

LEGENDS:

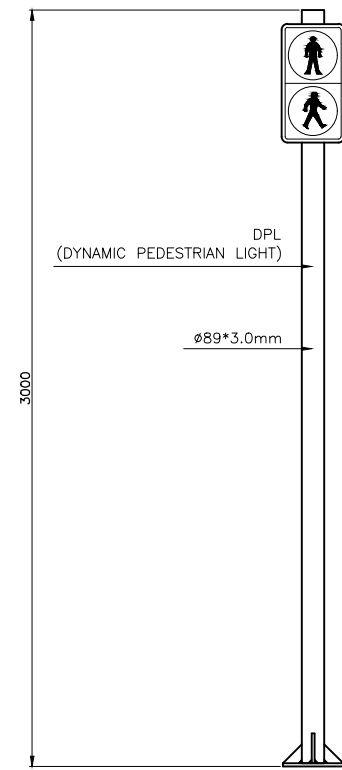
LP <sub>C</sub>	LIGHTING POLE LOCATED AT ROAD CENTER ISLAND
LP <sub>S</sub>	LIGHTING POLE LOCATED AT SOUTHSIDE OF ROAD
LP <sub>N</sub>	LIGHTING POLE LOCATED AT NORTHSIDE OF ROAD
-P-	LV POWER CABLE IN HDPE CONDUIT DUCTS OR CONCRETE DUCT BANK FOR ROAD CROSSING
LCP	LOCAL CONTROL PANEL PAD MOUNTED/OUTDOOR TYPE
LDP	LIGHTING DISTRIBUTION PANEL BOARD / OUTDOOR TYPE MOUNTED PAD (LOW VOLTAGE)
SLLC	SIGNAL LIGHT LOCAL CONTROLLER
EH	ELECTRICAL HANDHOLE
-	TRAFFIC SIGNAL CABLE DUCTBANK CONCRETE (FOR ROAD CROSSING)
DPL	DYNAMIC PEDESTRIAN LIGHT
ASL, TSL	TRAFFIC SIGNAL LANTERN (ASL - ARROW SIGNAL LIGHT) (TSL - TRAFFIC SIGNAL LIGHT)



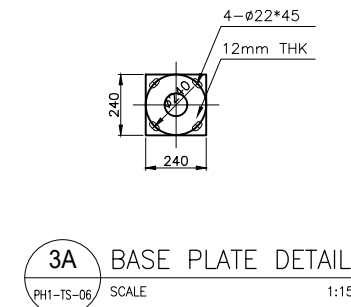
SINGLE LINE DIAGRAM



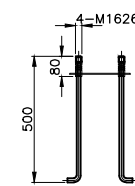
**1** ELEVATION DETAILS OF TRAFFIC SIGNAL LIGHT  
PH1-TS-06 SCALE 1:20



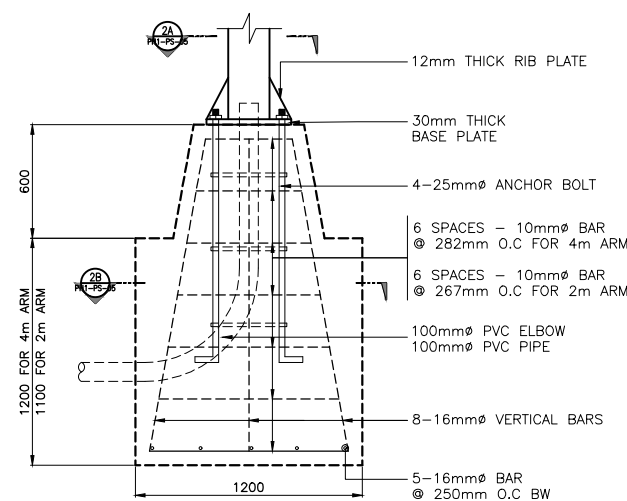
**3** ELEVATION OF PEDESTRIAN LIGHT  
PH1-TS-06 SCALE 1:15



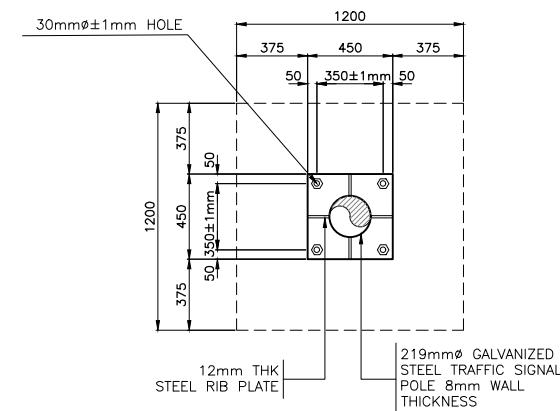
**3A** BASE PLATE DETAIL  
PH1-TS-06 SCALE 1:15



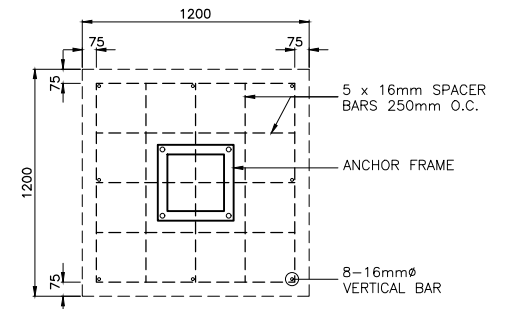
**3B** ANCHOR BOLTS DETAIL  
PH1-TS-06 SCALE 1:15



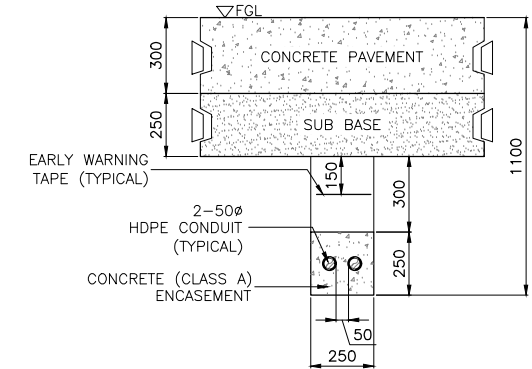
**2** FOOTING DETAILS  
PH1-TS-06 SCALE 1:20



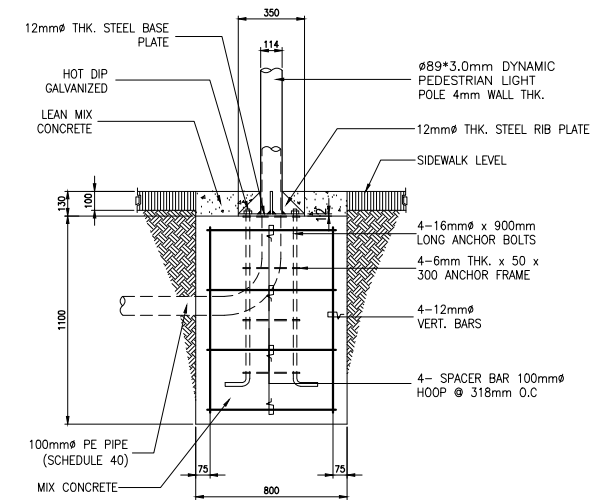
**2A** SECTION DETAIL  
PH1-TS-06 SCALE 1:20



**2B** SECTION DETAIL  
PH1-TS-06 SCALE 1:20



**4** DUCTBANK DETAIL  
PH1-TS-06 SCALE 1:20

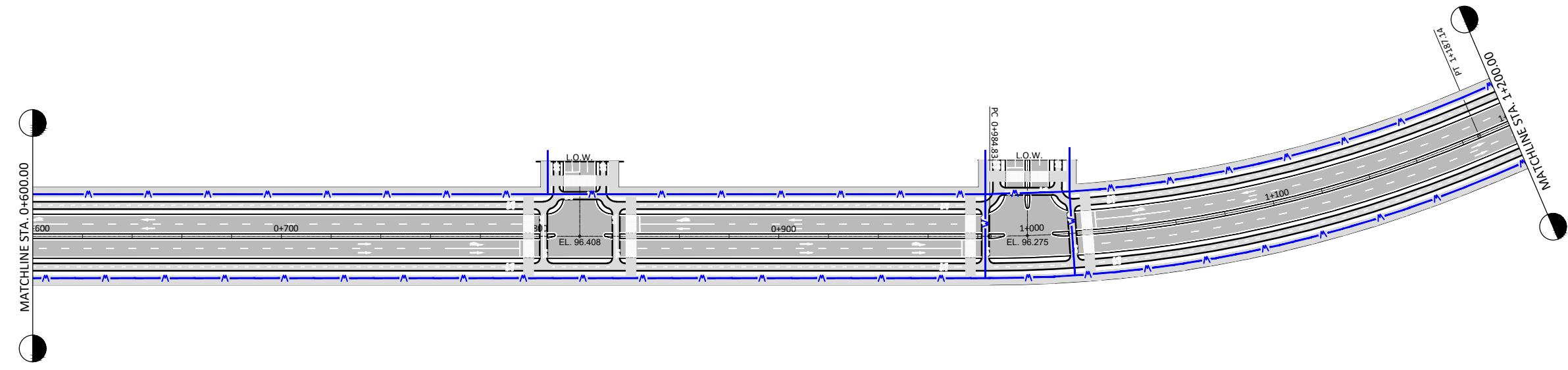
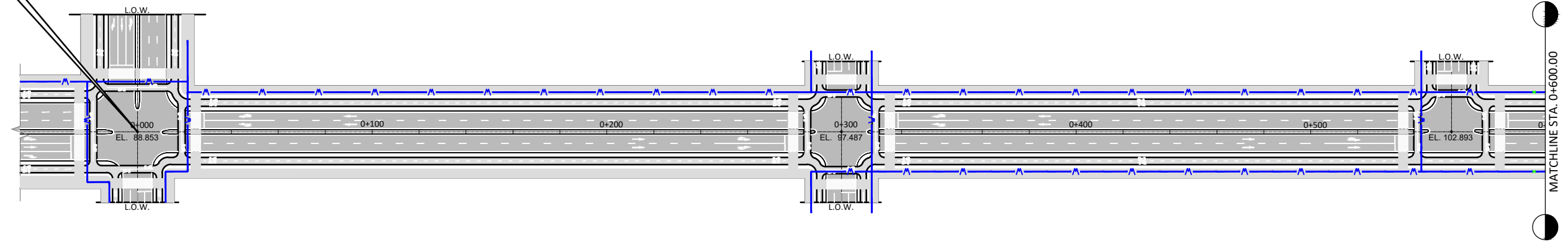


**3C** FOOTING DETAILS  
PH1-TS-06 SCALE 1:20

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS	
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER	<b>TEDDY MASANORI</b> PROJECT MANAGER	<b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> D/C, PMD CLARK PROJECTS	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 0+600) & R2 (STA. 0+000 - STA. 2+220)	TRAFFIC SIGNAL LIGHT, PEDESTRIAN LIGHT, FOOTING AND DUCTBANK DETAILS	AS SHOWN DRAWING NO. PH1-TS-06	DRAFT FINAL SHEET NO. 6 OF 6
<b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER	DATE:	DATE:	DATE:	DATE:				

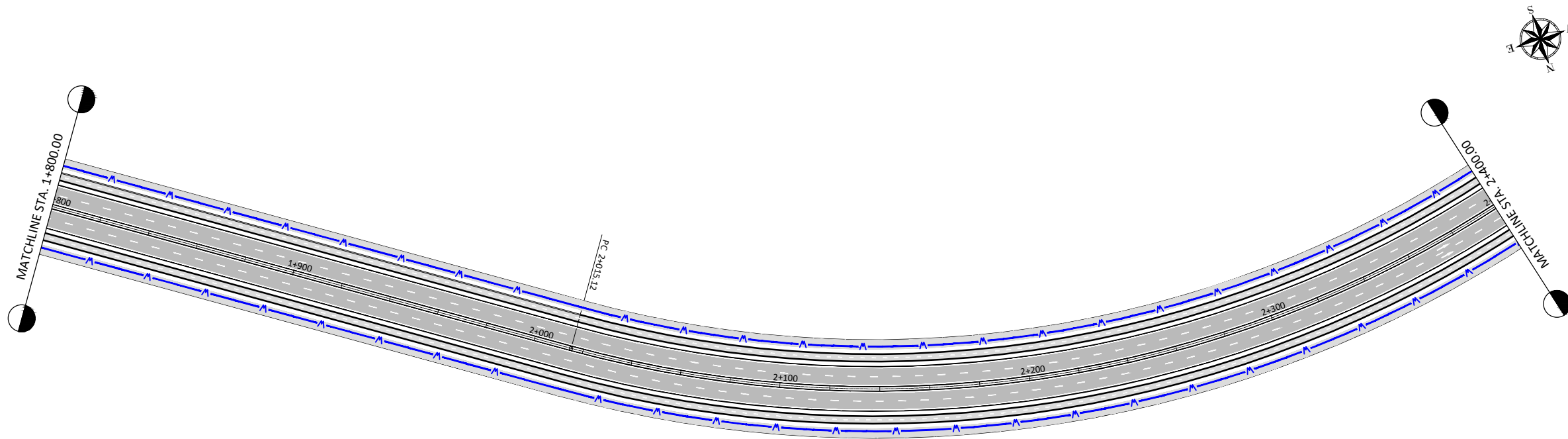
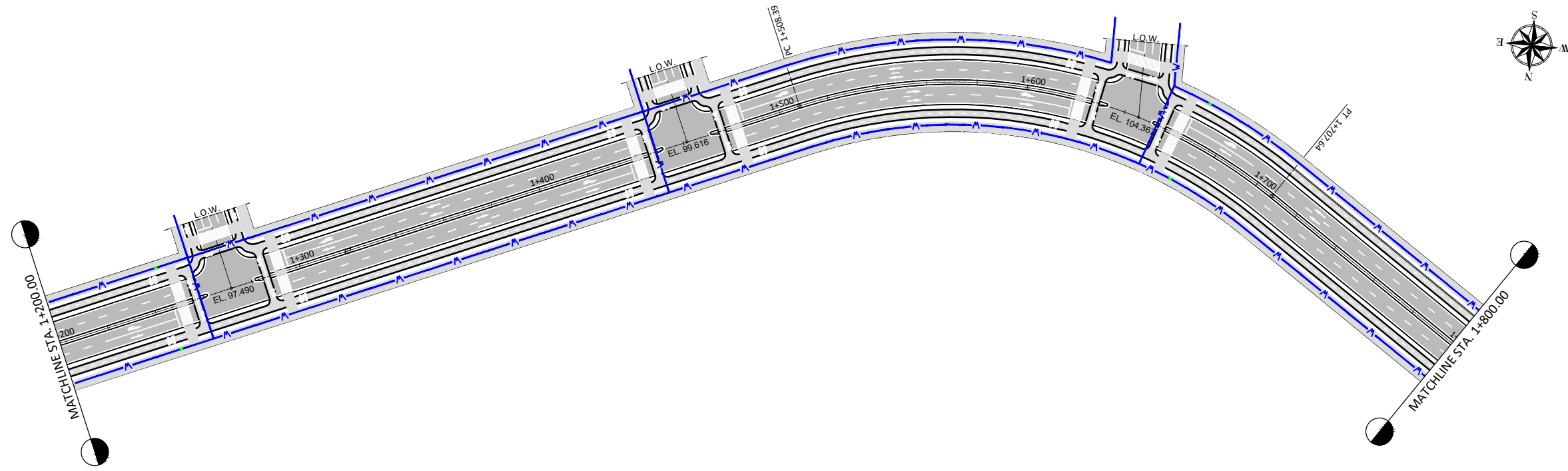
# WATER LAYOUT


BEGINNING OF ROAD P1-R1  
STA. 0+000.00  
ELEV.: 88.853






LEGEND :  
WATERLINE

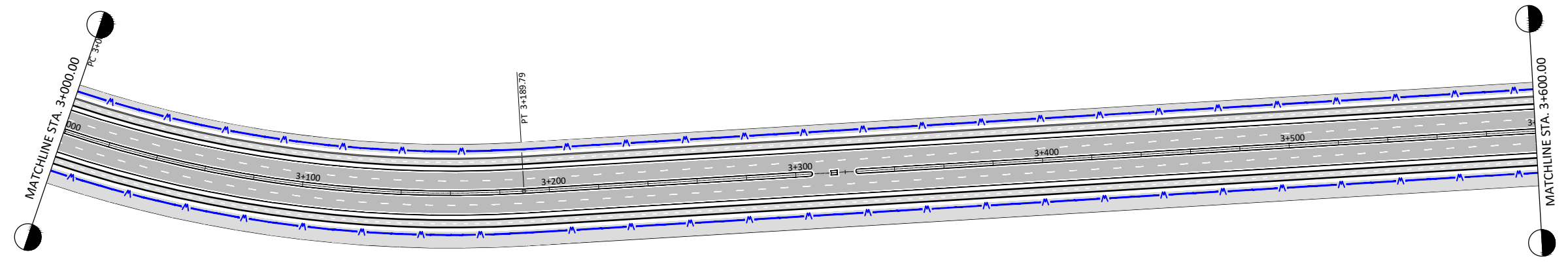
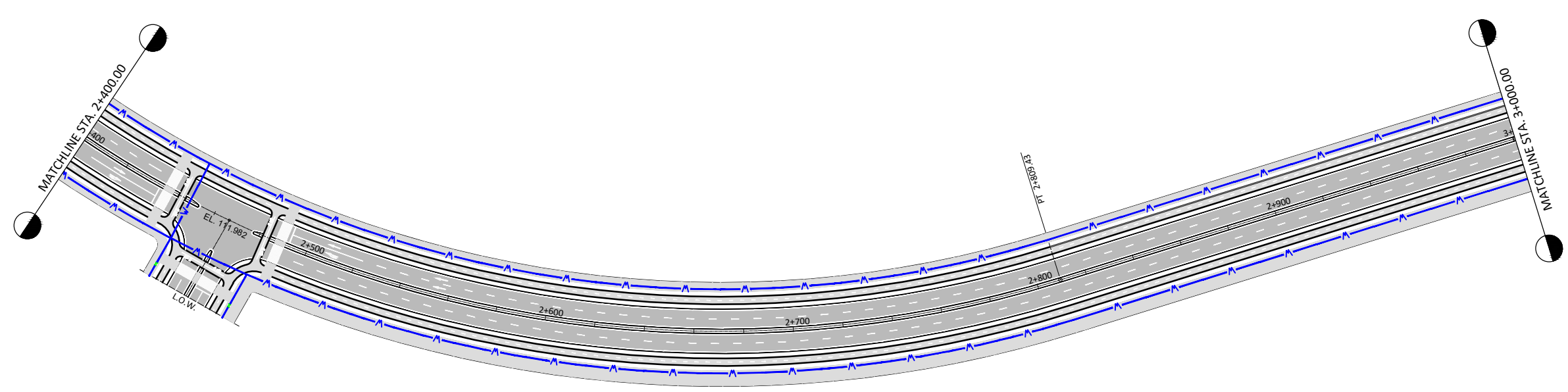
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA BUREAU OF CONSTRUCTION AND DEVELOPMENT AUTHORITY		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>RENE R. FLODELIZ</b> WATER SUPPLY ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	 APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>P1-R1 WATER SUPPLY PILE LINE LAYOUT</b> STA. 0+000 - STA. 1+200	1:2000 DRAWING NO.	DRAFT FINAL SHEET NO.	
	PH1-WS-01	1 OF 8								



LEGEND :  
 WATERLINE 

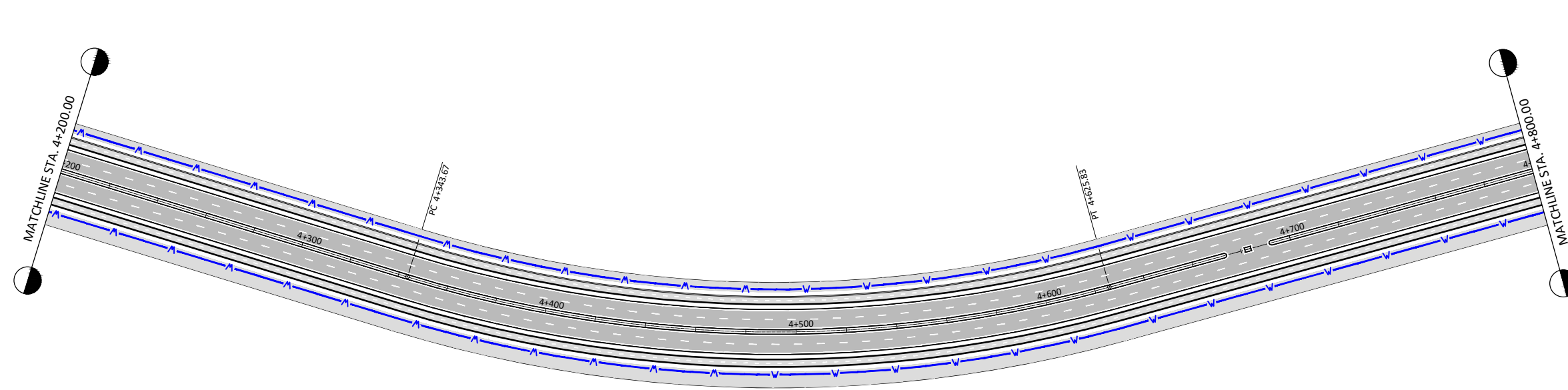
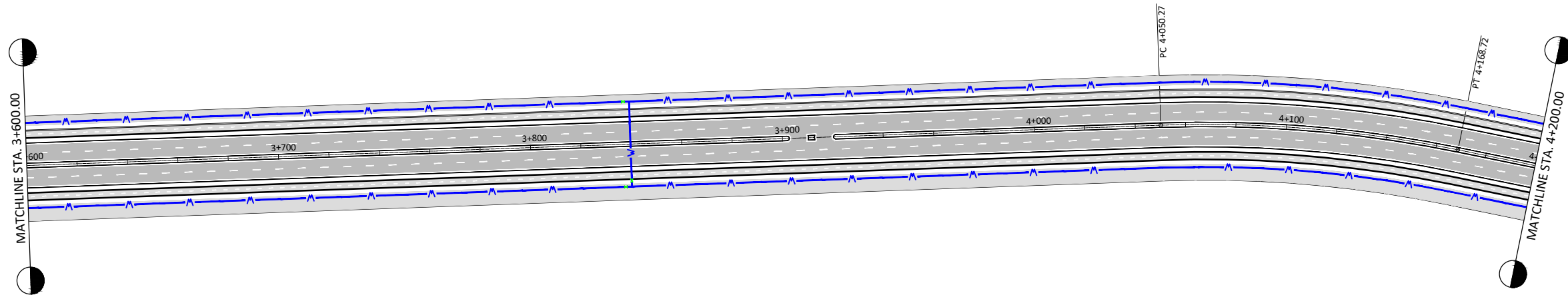
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA Bureau of City Development and Administration		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC. <small>CONSULTANTS PLANNERS ENGINEERS</small>	<b>RENE R. FLODELIZ</b> <small>WATER SUPPLY ENGINEER</small> DATE:	<b>TEDDY MASANORI</b> <small>PROJECT MANAGER</small> DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> <small>CH. PMO CLARK PROJECTS</small> DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> <small>SVP. CONVERSION AND DEVELOPMENT GROUP</small> DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> <small>R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</small>	<b>P1-R1 WATER SUPPLY PILE LINE LAYOUT</b> <small>STA. 1+200 - STA. 2+400</small>	1:2000 DRAWING NO.	DRAFT FINAL SHEET NO.
		PH1-WS-02	2 OF 8							





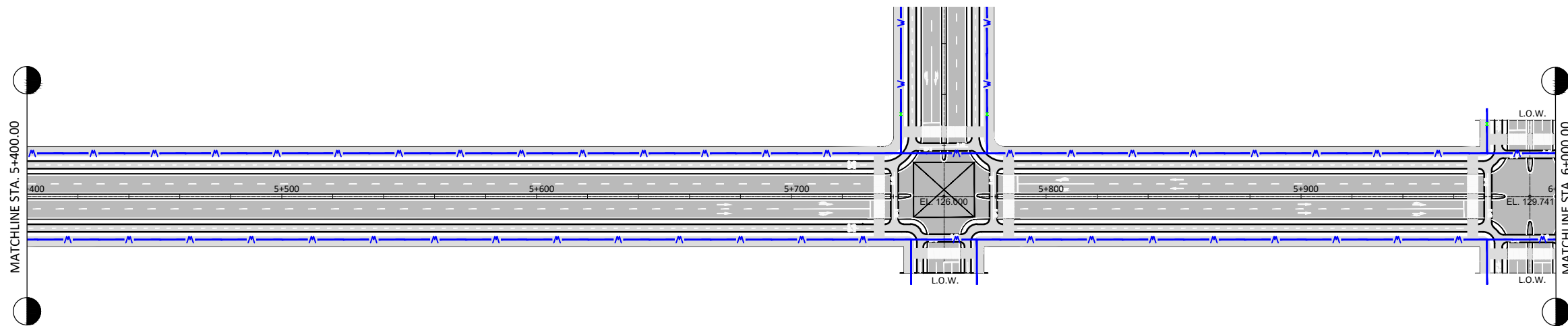
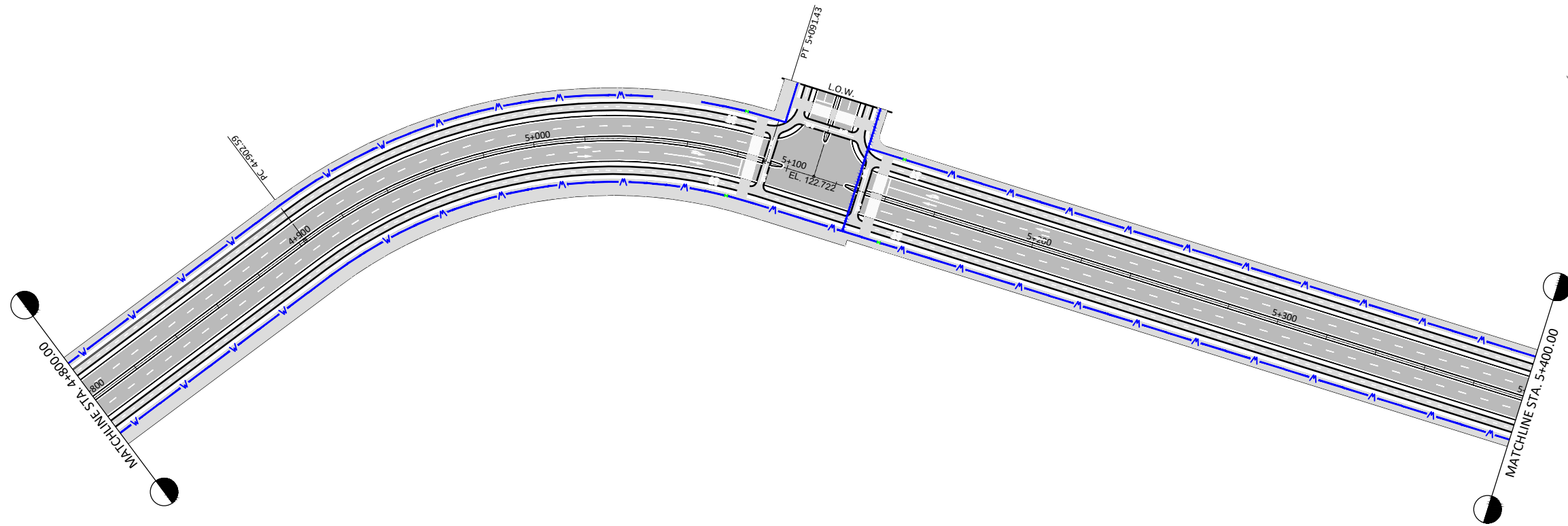
LEGEND :  
 WATERLINE

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA Bureau of Construction, Demolition and Reconversion Authority		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>RENE R. FLODELIZ</b> WATER SUPPLY ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY          ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)          PHASE 1          R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</b>	P1-R1 WATER SUPPLY PILE LINE LAYOUT STA. 2+400 - STA. 3+600	1:2000 DRAWING NO.	DRAFT FINAL SHEET NO.	
	CHECKED BY <b>CELITO ESTABLECIDA</b> CO-TEAM LEADER DATE:							PH1-WS-03	3 OF 8	



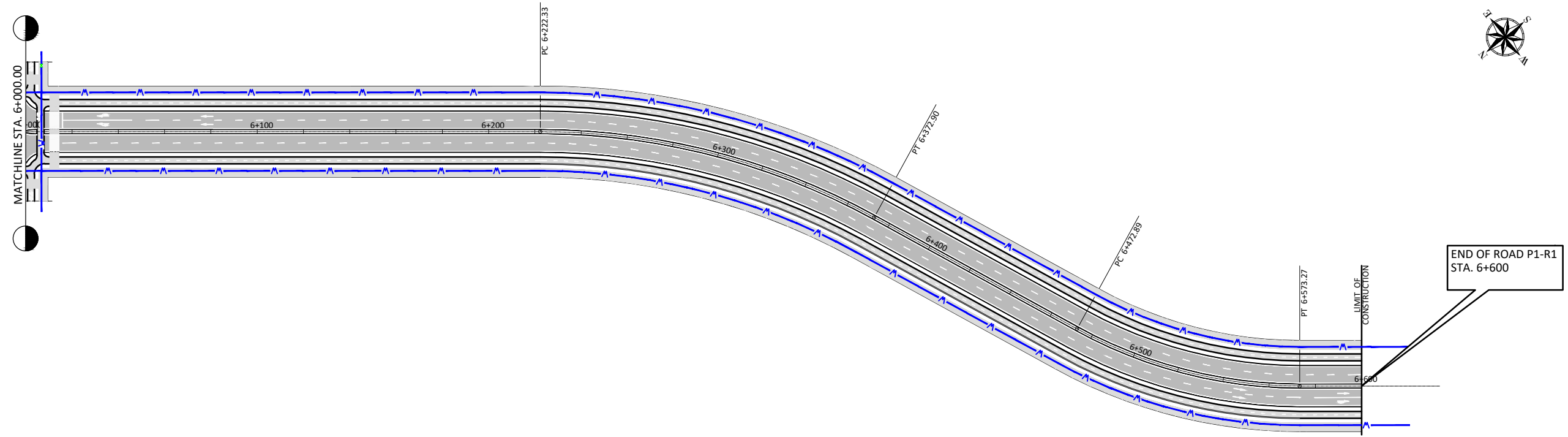
LEGEND :  
 WATERLINE

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>RENE R. FLODELIZ</b> WATER SUPPLY ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 BUREAU OF CONSTRUCTION AND DEVELOPMENT AUTHORITY		<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		P1-R1 WATER SUPPLY PILE LINE LAYOUT STA. 3+600 - STA. 4+800		1:2000	DRAFT FINAL	
	CHECKED BY <b>CIELITO ESTABLECIDA</b> CO-TEAM LEADER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:					DRAWING NO.	SHEET NO.	
								PH1-WS-04	4 OF 8		



LEGEND :  
 WATERLINE

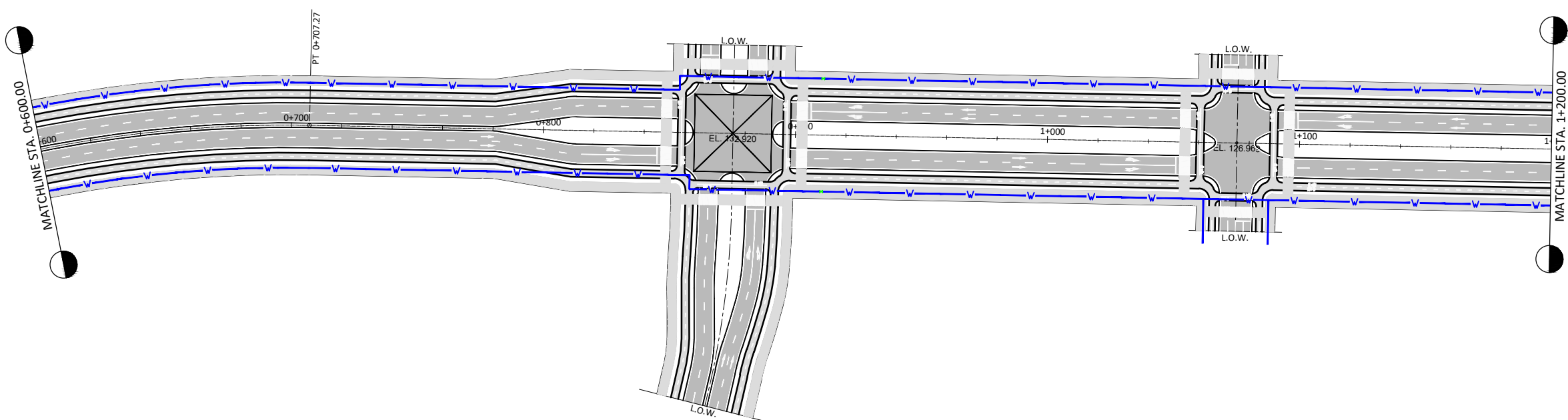
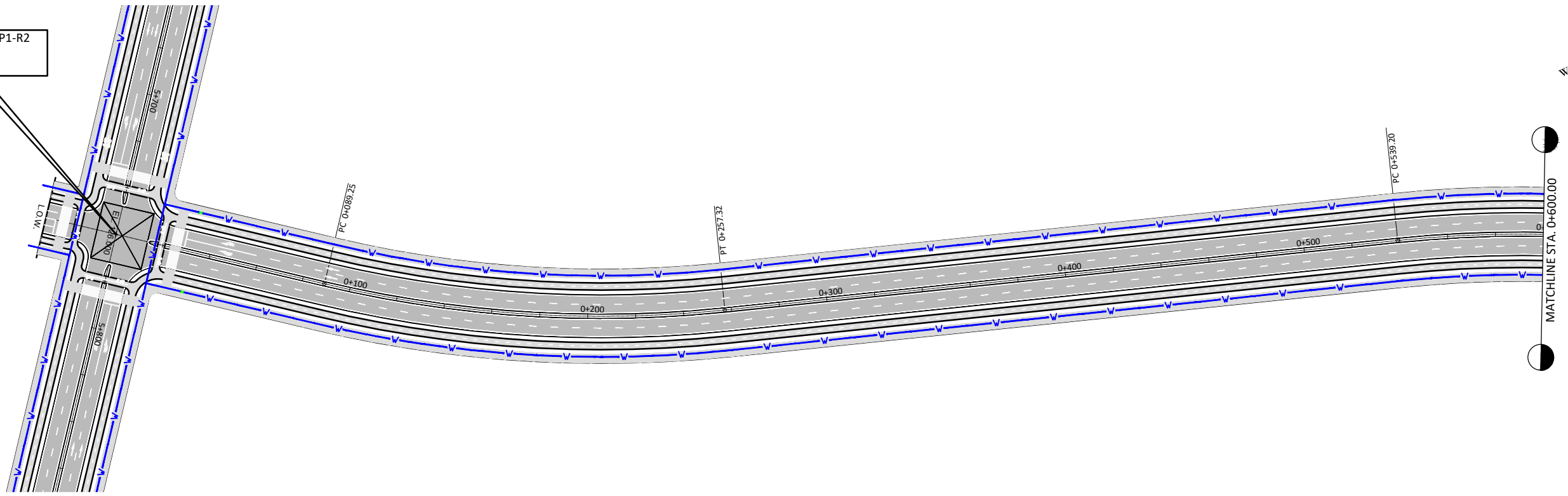
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>RENE R. FLODELIZ</b> WATER SUPPLY ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	P1-R1 WATER SUPPLY PILE LINE LAYOUT STA. 4+800 - STA. 6+000	1:2000 DRAWING NO.	DRAFT FINAL SHEET NO.	
	CHECKED BY <b>CELITO ESTABLECIDA</b> CO-TEAM LEADER DATE:								PH1-WS-05	5 OF 8



LEGEND :  
 WATERLINE

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA BAY AREA CONVERSION AND DEVELOPMENT AUTHORITY		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>RENE R. FLODELIZ</b> WATER SUPPLY ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	P1-R1 WATER SUPPLY PILE LINE LAYOUT STA. 6+000 - STA. 6+600	1:2000 DRAWING NO.	DRAFT FINAL SHEET NO.	
	CHECKED BY <b>CIELITO ESTABLECIDA</b> CO-TEAM LEADER DATE:							PH1-WS-06	6 OF 8	

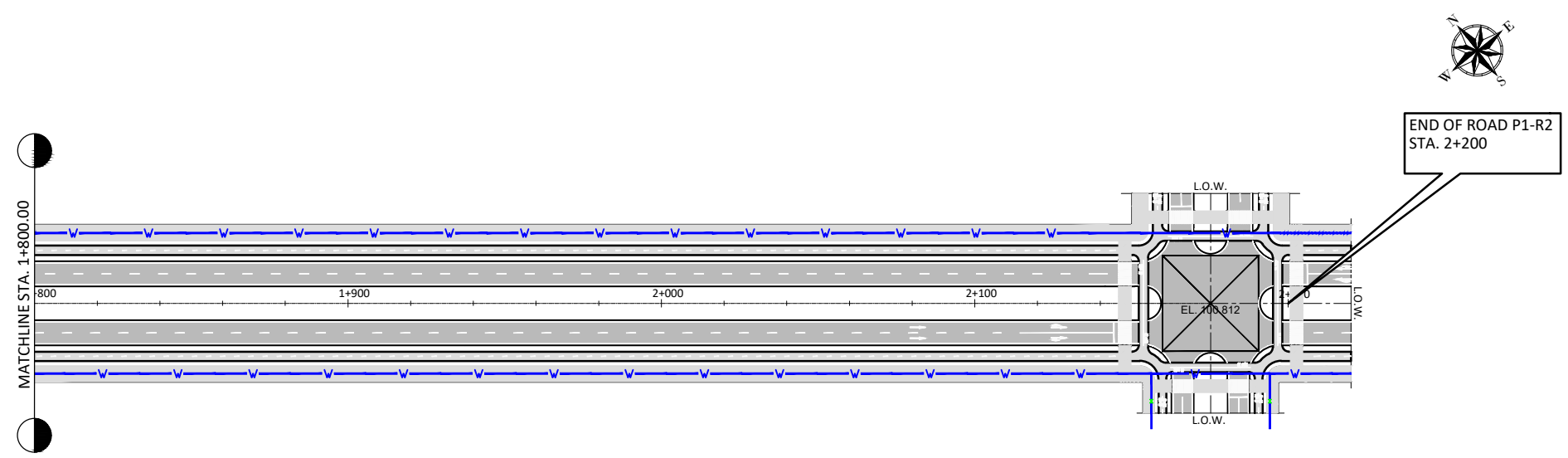
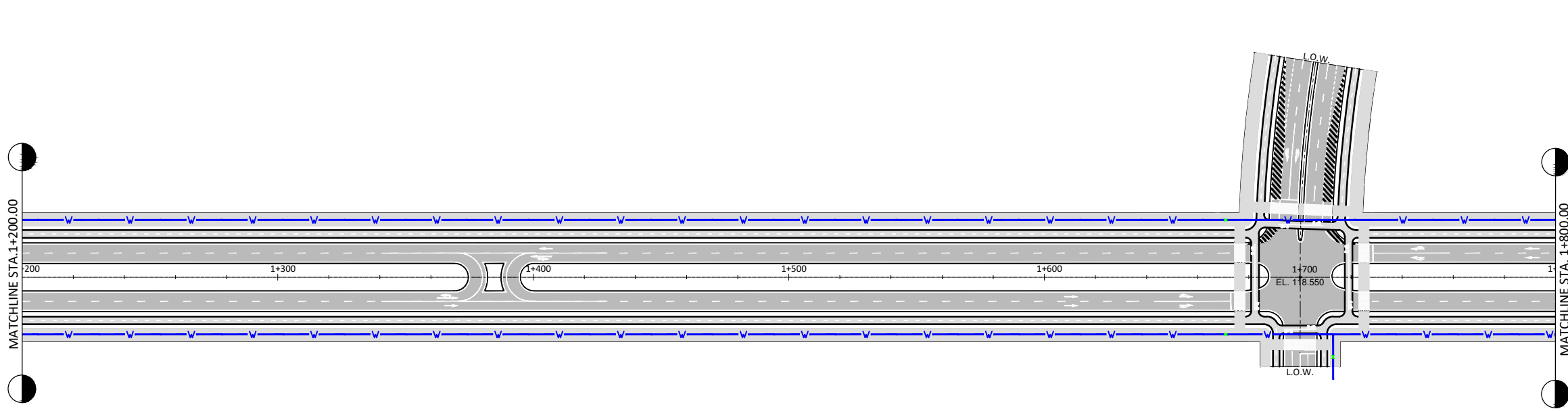
BEGINNING OF ROAD P1-R2  
STA. 0+000.00  
ELEV.: 126.00



LEGEND :  
WATERLINE

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>RENE R. FLODELIZ</b> WATER SUPPLY ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 BOARD OF CONVERSION AND DEVELOPMENT AUTHORITY		<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY          ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)          PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	P1-R2 WATER SUPPLY PILE LINE LAYOUT STA. 0+000 - STA. 1+200	1:2000	DRAFT FINAL
	CHECKED BY <b>CELITO ESTABLECIDA</b> CO-TEAM LEADER DATE:	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:		APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	DRAWING NO.			SHEET NO.	
								PH1-WS-07	7 OF 8





LEGEND :  
 WATERLINE

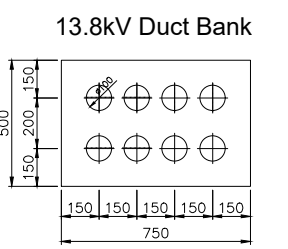
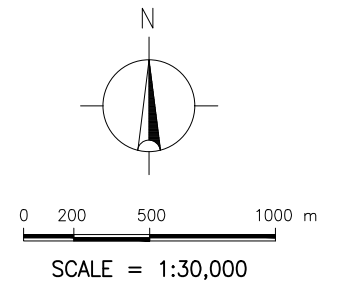
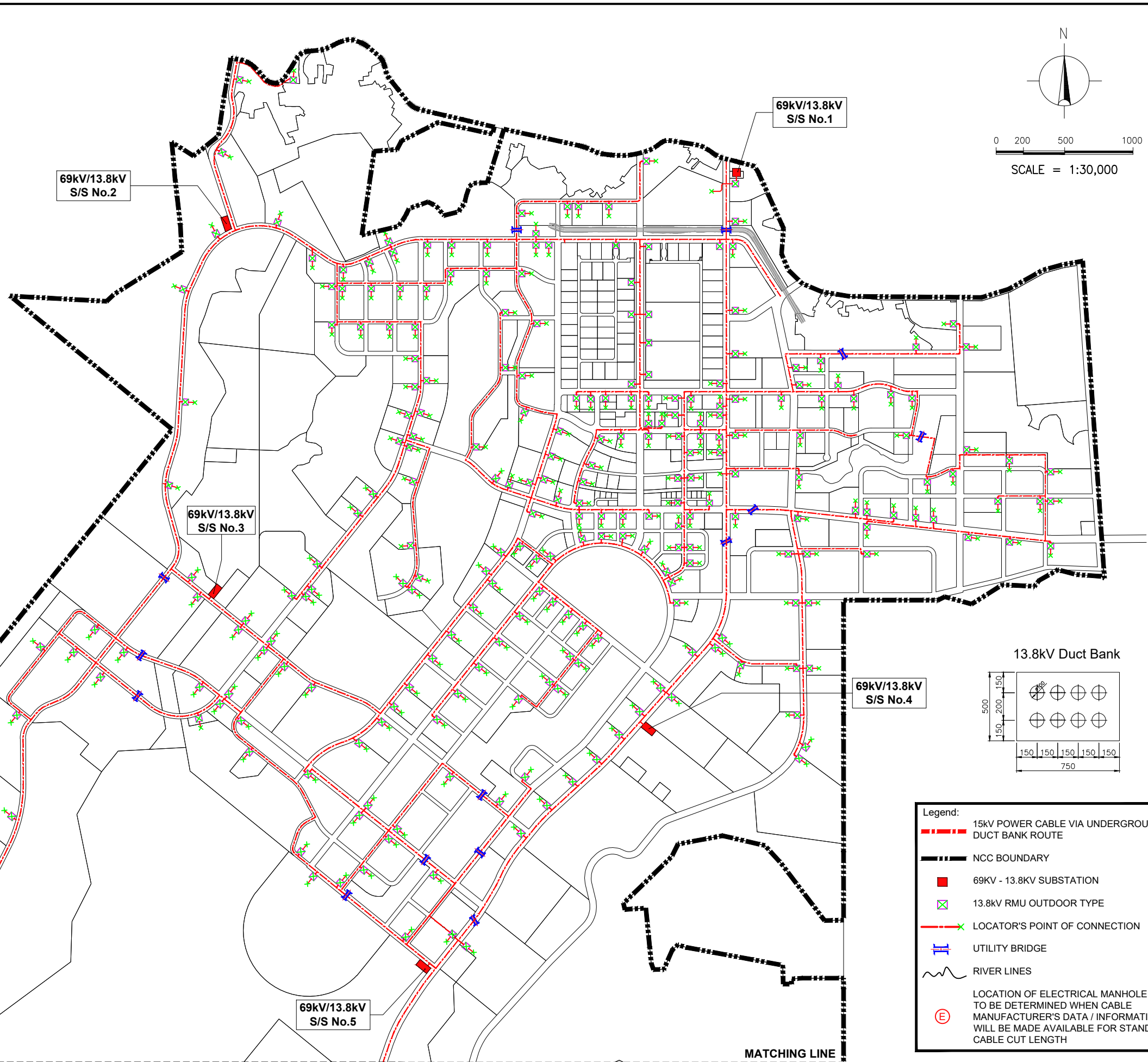
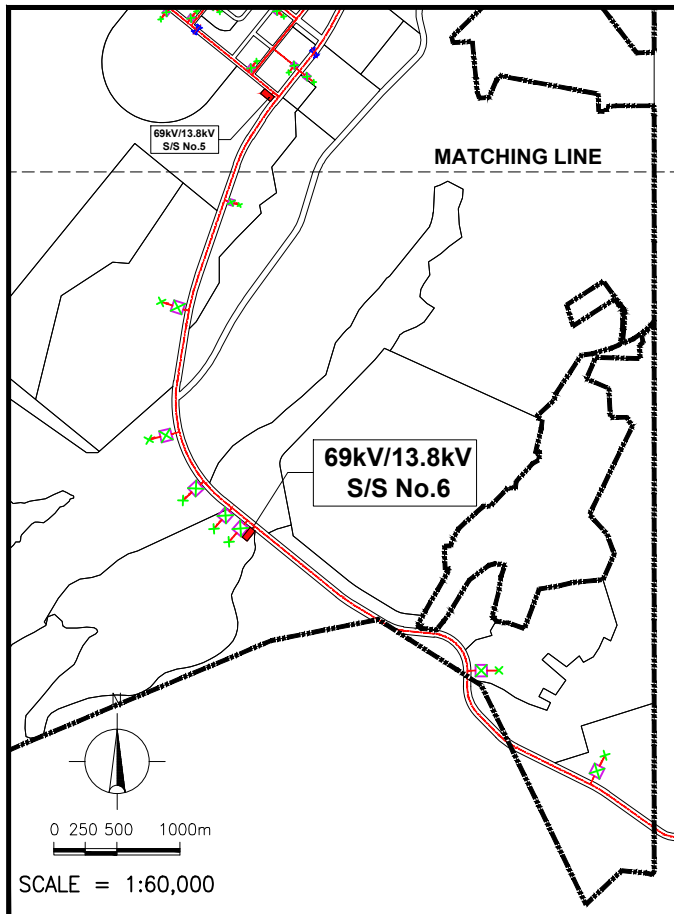
CONSULTANTS	DESIGNED BY <b>RENE R. FLODELIZ</b> <small>WATER SUPPLY ENGINEER</small> DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> <small>PROJECT MANAGER</small> DATE:	REPUBLIC OF THE PHILIPPINES  PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 <small>Build, Convert, Operate and Maintain</small>	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> <small>R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</small>	SHEET CONTENT <b>P1-R2 WATER SUPPLY PILE LINE LAYOUT</b> <small>STA. 1+200 - STA. 2+200</small>	SCALE 1:2000 DRAWING NO. PH1-WS-08	DRAWING STATUS DRAFT FINAL SHEET NO. 8 OF 8
NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. <small>CONSULTANTS PLANNERS ENGINEERS</small>	CHECKED BY <b>CIELITO ESTABLECIDA</b> <small>CO-TEAM LEADER</small> DATE:			RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> <small>CH. PMO CLARK PROJECTS</small> DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> <small>SVP. CONVERSION AND DEVELOPMENT GROUP</small> DATE:			

# POWER LAYOUT

DWG No.	SHEET CONTENT	SHEET NO.
PH1-PL-01	POWER SUPPLY SYSTEM DRAWING INDEX	1 OF 14
PH1-PL-02	13.8KV DISTRIBUTION LAYOUT PLAN POWER SUPPLY SYSTEM	2 OF 14
PH1-PL-03	ROAD 1 & ROAD 2 LDP-1, LDP-2 AND LDP-3 POWER DISTRIBUTION LOCATION PLAN	3 OF 14
PH1-PL-04	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 0+000 - STA. 1+080	4 OF 14
PH1-PL-05	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 1+080 - STA. 1+800	5 OF 14
PH1-PL-06	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 1+800 - STA. 2+560	6 OF 14
PH1-PL-07	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 2+560 - STA. 3+320	7 OF 14
PH1-PL-08	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 3+320 - STA. 4+460	8 OF 14
PH1-PL-09	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 4+460 - STA. 5+220	9 OF 14
PH1-PL-10	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 5+220 - STA. 6+340	10 OF 14
PH1-PL-11	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 6+340 - STA. 6+600	11 OF 14
PH1-PL-12	ROAD 2 POWER DISTRIBUTION LAYOUT STA. 0+000 - STA. 0+760	12 OF 14
PH1-PL-13	ROAD 2 POWER DISTRIBUTION LAYOUT STA. 0+760 - STA. 1+900	13 OF 14
PH1-PL-14	ROAD 2 POWER DISTRIBUTION LAYOUT STA. 1+900 - STA. 2+175.24	14 OF 14

**1** POWER SUPPLY SYSTEM DRAWING INDEX  
PH1-PL-01 NOT TO SCALE

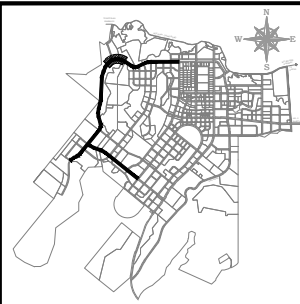
CONSULTANTS		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> Build, Convert, Operate and Maintain Authority	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>POWER SUPPLY SYSTEM DRAWING INDEX</b>	SCALE AS SHOWN	DRAWING STATUS DRAFT FINAL
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.	<b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____			RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____		DRAWING NO. PH1-PL-01	SHEET NO. 1 OF 14



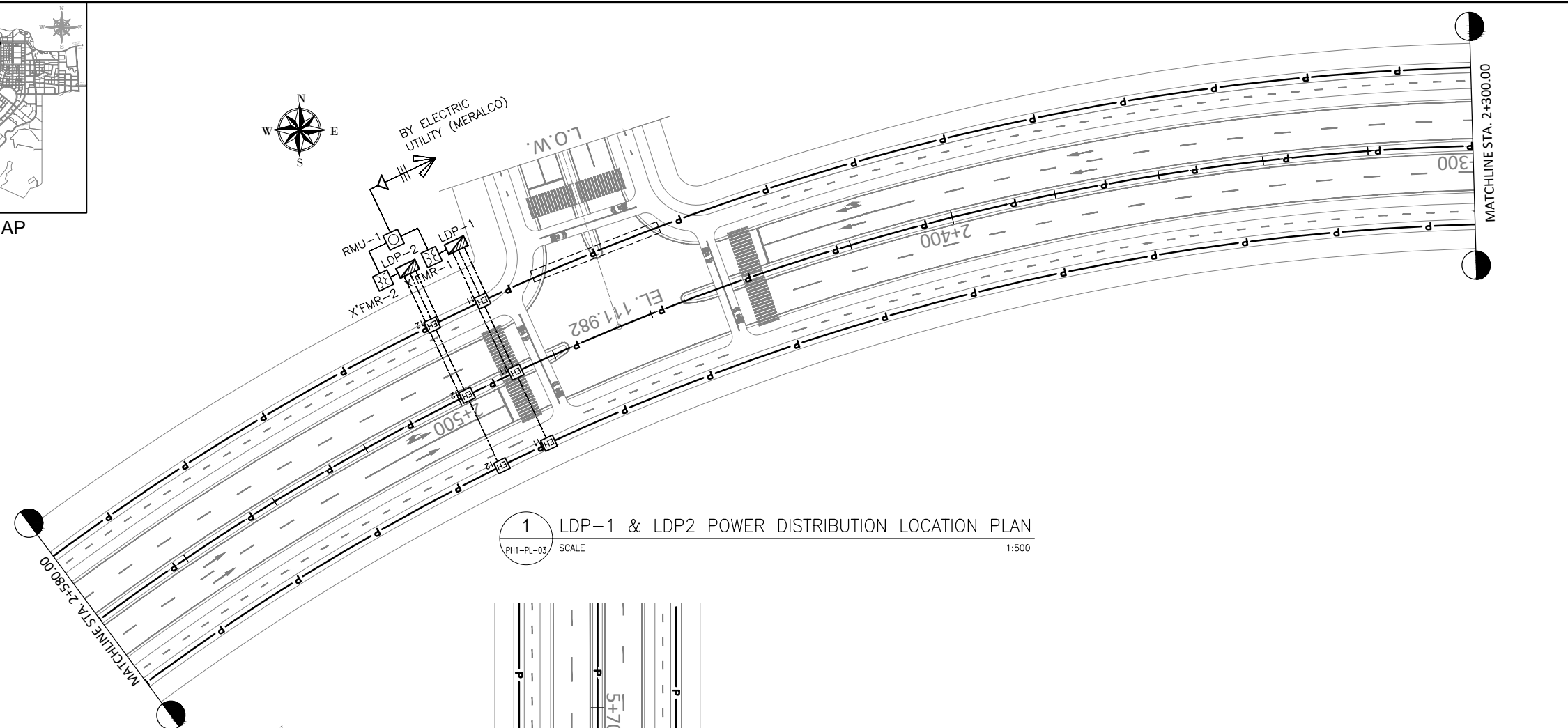
**Legend:**

- 15kV POWER CABLE VIA UNDERGROUND DUCT BANK ROUTE
- NCC BOUNDARY
- 69KV - 13.8KV SUBSTATION
- 13.8KV RMU OUTDOOR TYPE
- LOCATOR'S POINT OF CONNECTION
- UTILITY BRIDGE
- RIVER LINES
- LOCATION OF ELECTRICAL MANHOLE TO BE DETERMINED WHEN CABLE MANUFACTURER'S DATA / INFORMATION WILL BE MADE AVAILABLE FOR STANDARD CABLE CUT LENGTH

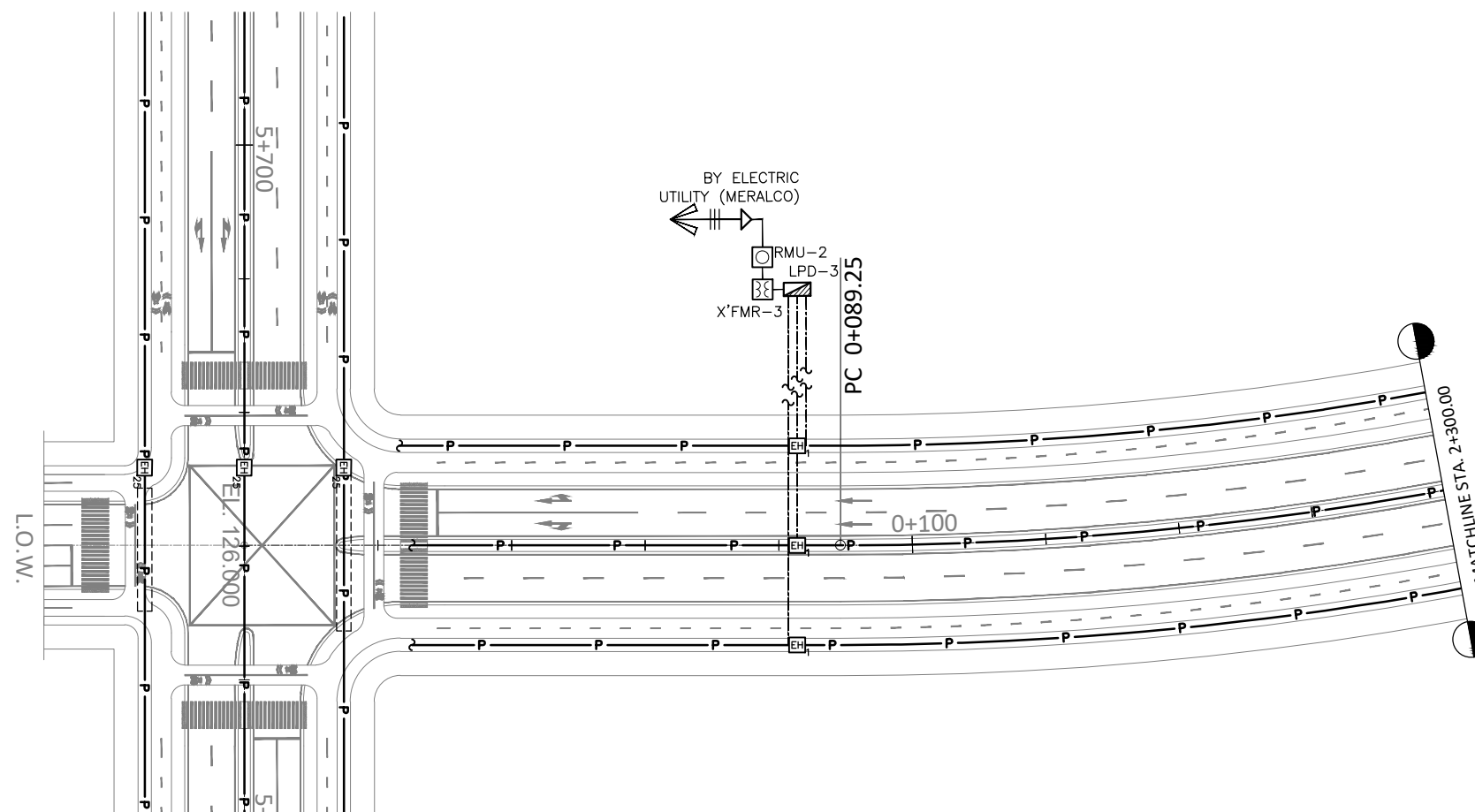
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	13.8kV DISTRIBUTION LAYOUT PLAN POWER SUPPLY SYSTEM	AS SHOWN DRAWING NO. PH1-PL-02	DRAFT FINAL SHEET NO. 2 OF 14
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:								



KEY MAP



1 LDP-1 & LDP2 POWER DISTRIBUTION LOCATION PLAN  
PH1-PL-03 SCALE 1:500



2 LDP-3 POWER DISTRIBUTION LOCATION PLAN  
PH1-PL-03 SCALE 1:500

NOTES

1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

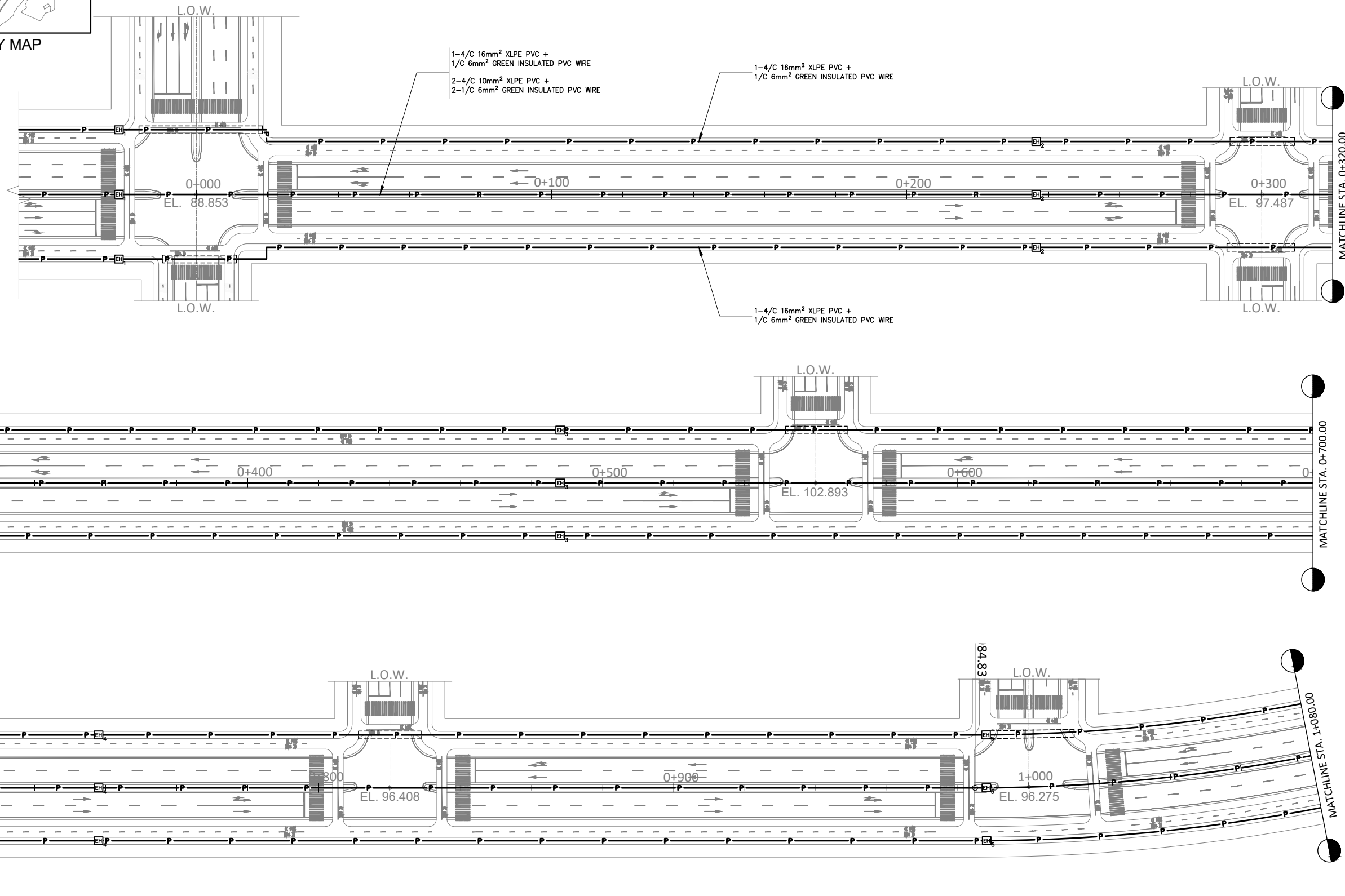
FOR INFORMATION ONLY

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. <b>PJIC</b>	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> CIC, PMO CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>ROAD 1 &amp; ROAD 2 LDP-1, LDP-2 AND LDP-3 POWER DISTRIBUTION LOCATION PLAN</b>	AS SHOWN DRAWING NO. PH1-PL-03	DRAFT FINAL SHEET NO. 3 OF 14
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:								





KEY MAP



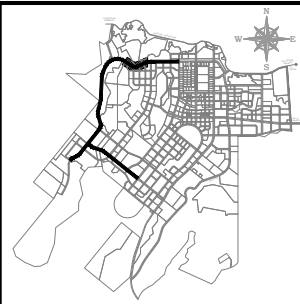
NOTES

1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

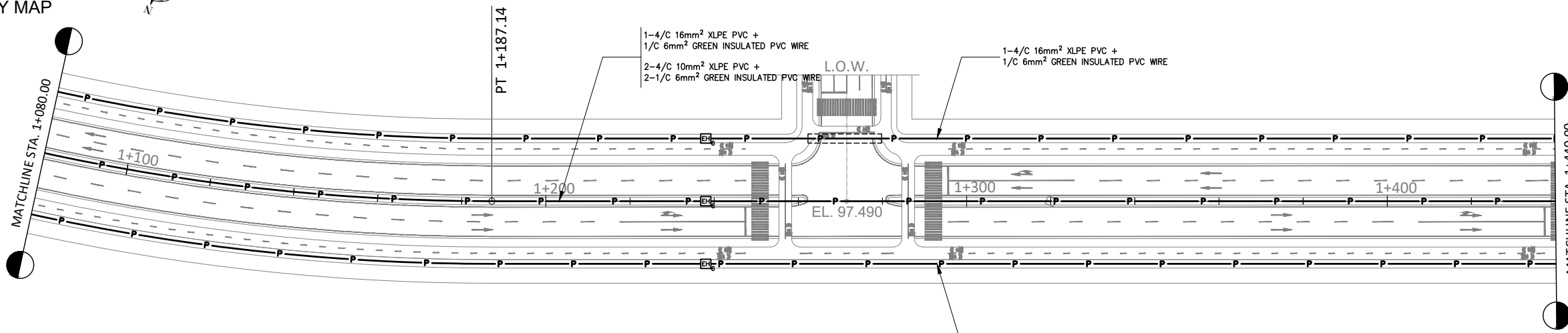
FOR INFORMATION ONLY

1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA.0+000 - STA. 1+080)  
 PH1-PL-04 SCALE 1:600

CONSULTANTS <b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____		SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____		REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<b>BCDA</b> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE: _____		APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____		PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		SHEET CONTENT <b>ROAD 1 POWER DISTRIBUTION LAYOUT</b> STA.0+000 - STA. 1+080		SCALE AS SHOWN DRAWING NO. PH1-PL-04		DRAWING STATUS DRAFT FINAL SHEET NO. 4 OF 14	
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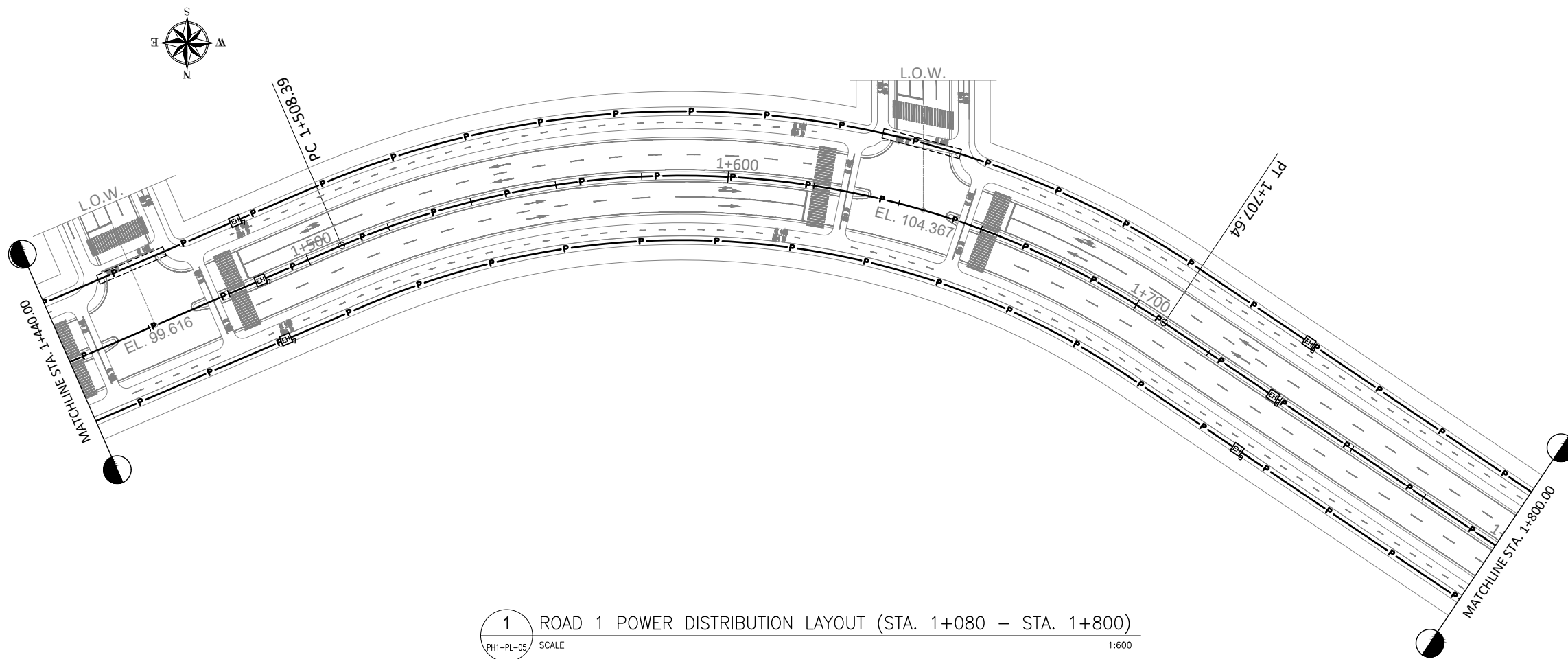
KEY MAP



NOTES

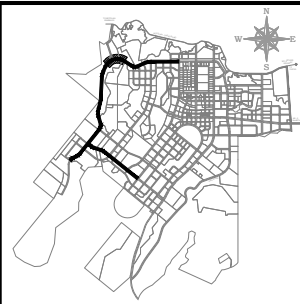
1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

FOR INFORMATION ONLY



1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 1+080 - STA. 1+800)  
PHI-PL-05 SCALE 1:600

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>DESIGNED BY</b> <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ <b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>SUBMITTED BY</b> <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> Board of Commissioners Metropolitan Authority <b>RECOMMENDING APPROVAL</b> <b>APPROVED BY</b> <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>PROJECT TITLE</b> <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>SHEET CONTENT</b> <b>ROAD 1 POWER DISTRIBUTION LAYOUT</b> STA. 1+080 - STA. 1+800	<b>SCALE</b> AS SHOWN DRAWING NO. PH1-PL-05	<b>DRAWING STATUS</b> DRAFT FINAL SHEET NO. 5 OF 14
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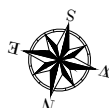
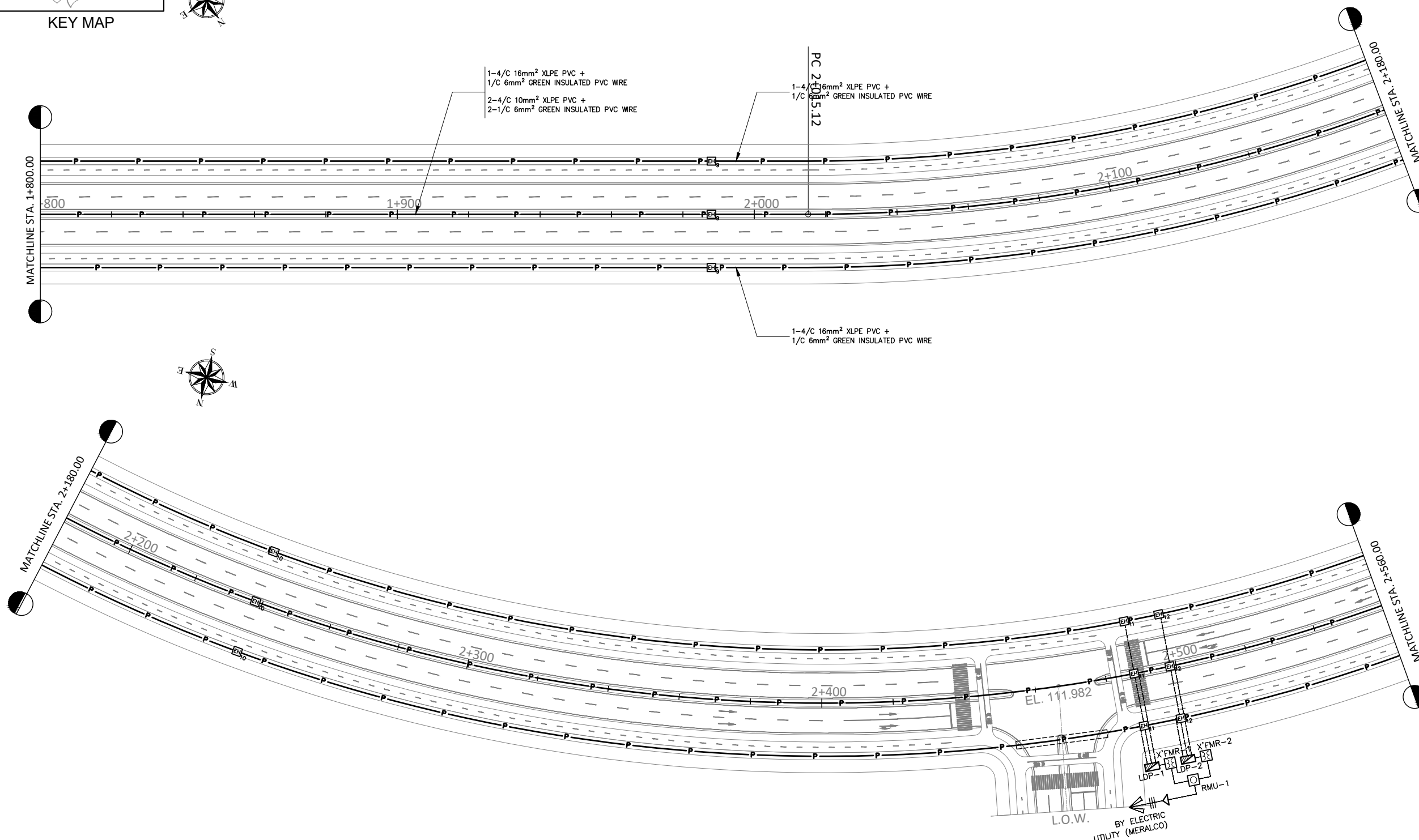


KEY MAP



NOTES

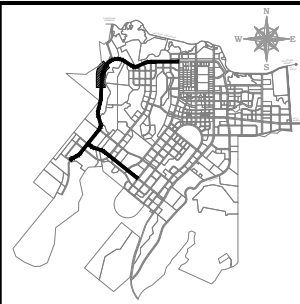
1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03



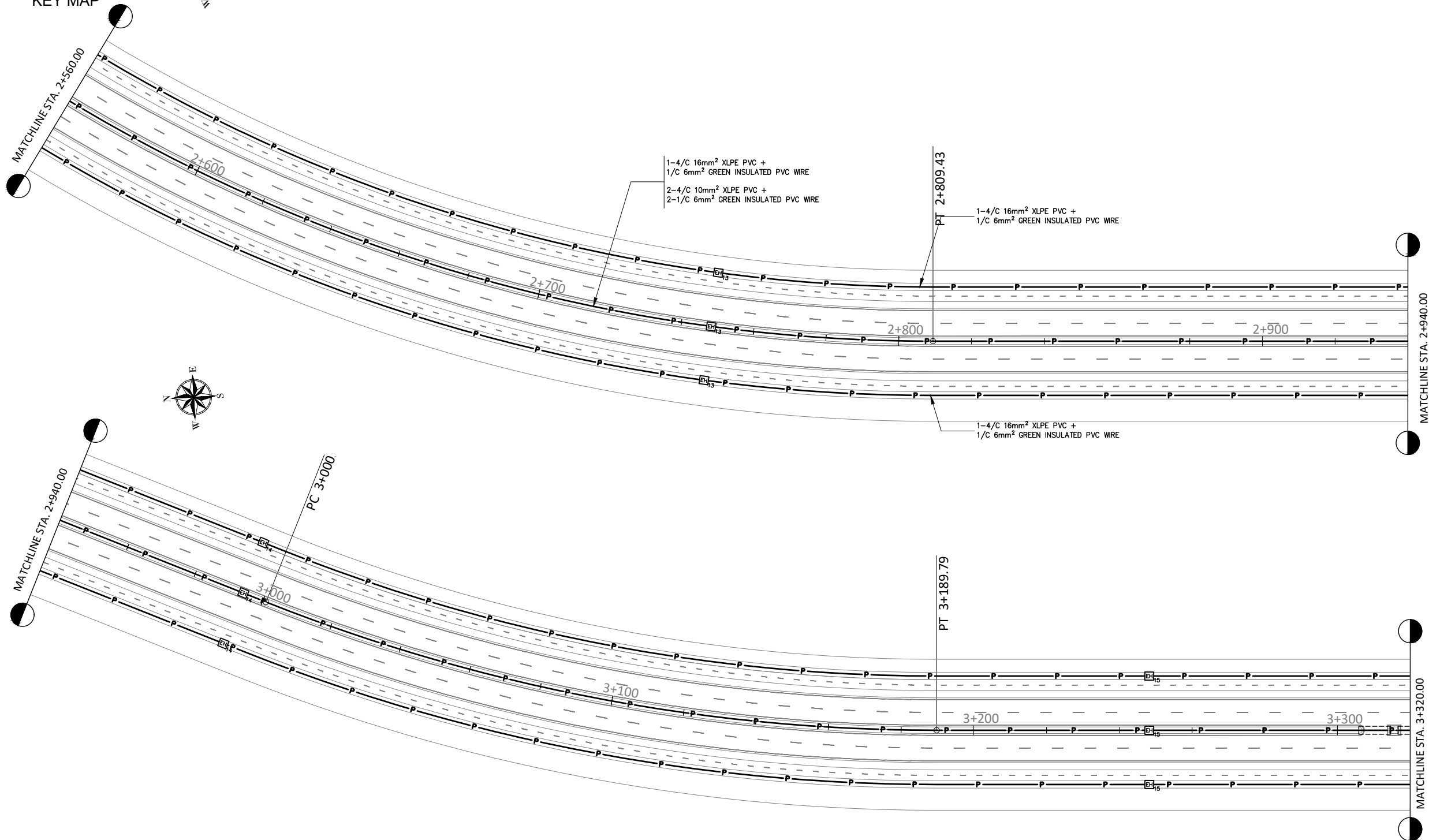
FOR INFORMATION ONLY

1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 1+800 - STA. 2+560)  
PH1-PL-06 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	<b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 1+800 - STA. 2+560	AS SHOWN	DRAFT FINAL
		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:	DATE:					APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	DRAWING NO.
								PH1-PL-06	6 OF 14



KEY MAP



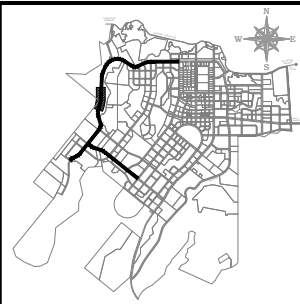
NOTES

- FOR GENERAL NOTES  
SEE PH1-TS-03
- FOR LEGENDS  
SEE PH1-TS-03

FOR INFORMATION ONLY

1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 2+560 - STA. 3+320)  
PH1-PL-07 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	CHARLES P. PANTE ELECTRICAL ENGINEER DATE:	TEDDY MASANORI PROJECT MANAGER DATE:	 BUREAU OF CITY PLANNING AND DEVELOPMENT		INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 2+560 - STA. 3+320	AS SHOWN	DRAFT FINAL	
	CHECKED BY CHARLES P. PANTE CO-TEAM LEADER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	RECOMMENDING APPROVAL RYAN PAUL S. GALURA OIC, PMO CLARK PROJECTS DATE:	APPROVED BY JOSHUA M. BINGCANG SVP, CONVERSION AND DEVELOPMENT GROUP DATE:			DRAWING NO.	SHEET NO.	PH1-PL-07

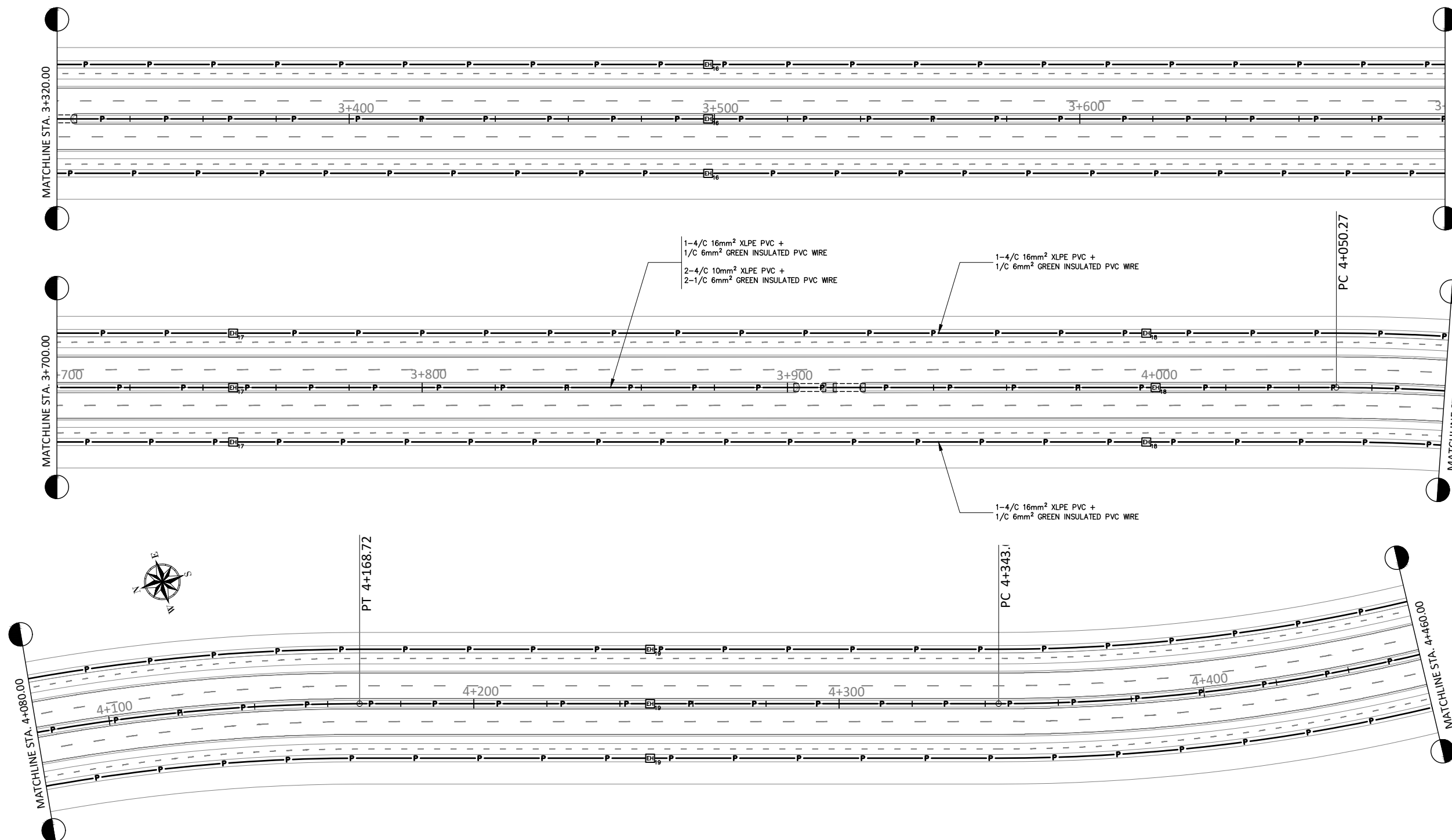


KEY MAP



NOTES

1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

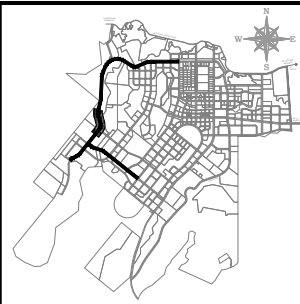


FOR INFORMATION ONLY

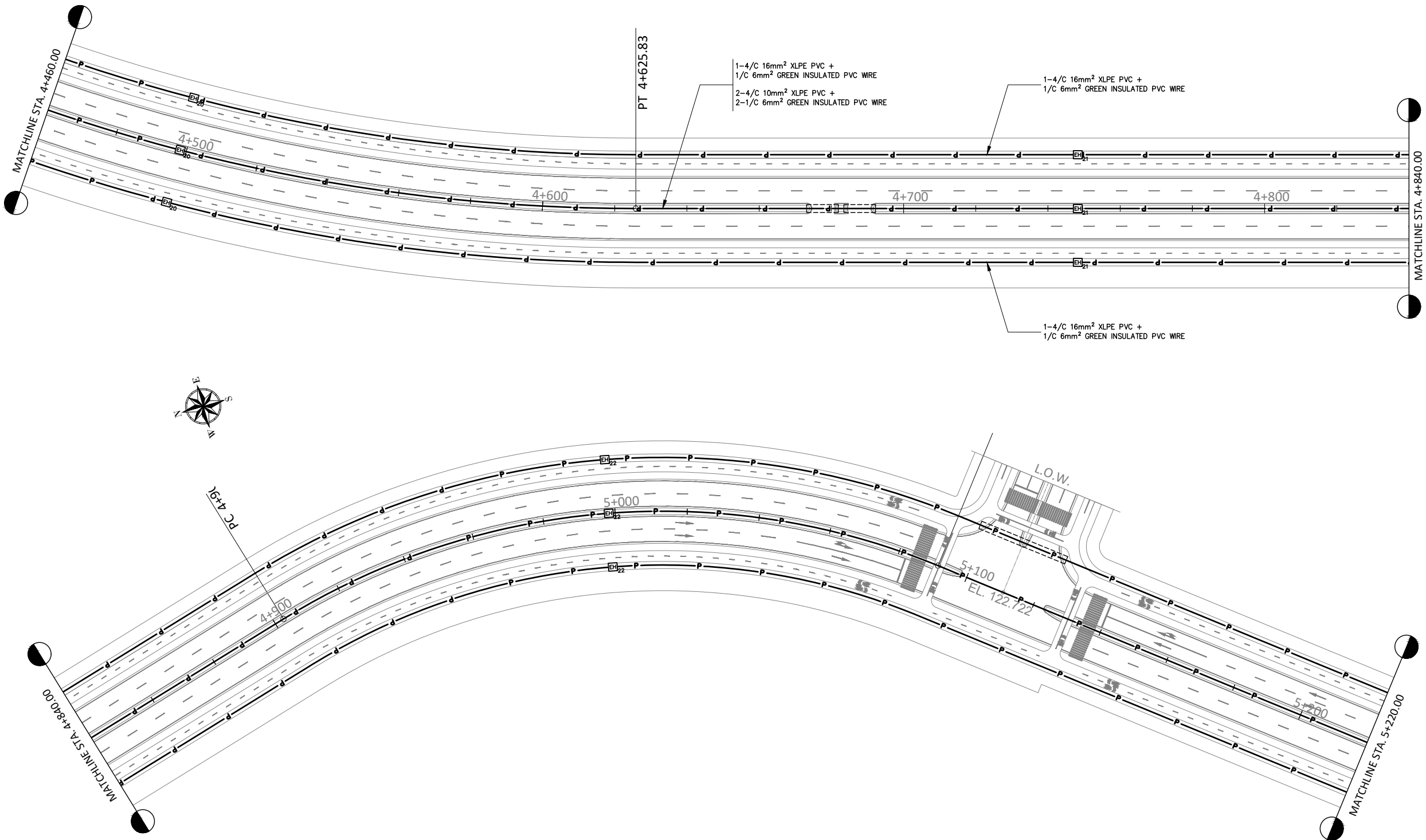
1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 3+320 - STA. 4+460)  
PH1-PL-08 SCALE 1:600

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>DESIGNED BY</b> <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ <b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>SUBMITTED BY</b> <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> Board of Commissioners and Administrative Body <b>RECOMMENDING APPROVAL</b> <b>APPROVED BY</b> <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>PROJECT TITLE</b> <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>SHEET CONTENT</b> <b>ROAD 1 POWER DISTRIBUTION LAYOUT</b> STA. 3+320 - STA. 4+460	<b>SCALE</b> AS SHOWN DRAWING NO. PH1-PL-08	<b>DRAWING STATUS</b> DRAFT FINAL SHEET NO. 8 OF 14
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KEY MAP



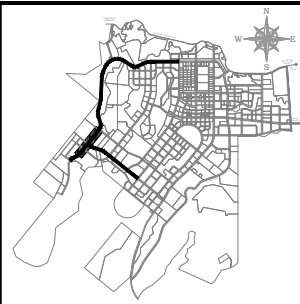
NOTES

1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

FOR INFORMATION ONLY

1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 4+460 - STA. 5+220)  
PH1-PL-09 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE:	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 BUREAU OF CITY PLANNING AND DEVELOPMENT	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE:	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 4+460 - STA. 5+220		AS SHOWN	DRAFT FINAL
	CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:	DRAWING NO. PH1-PL-09								SHEET NO. 9 OF 14	

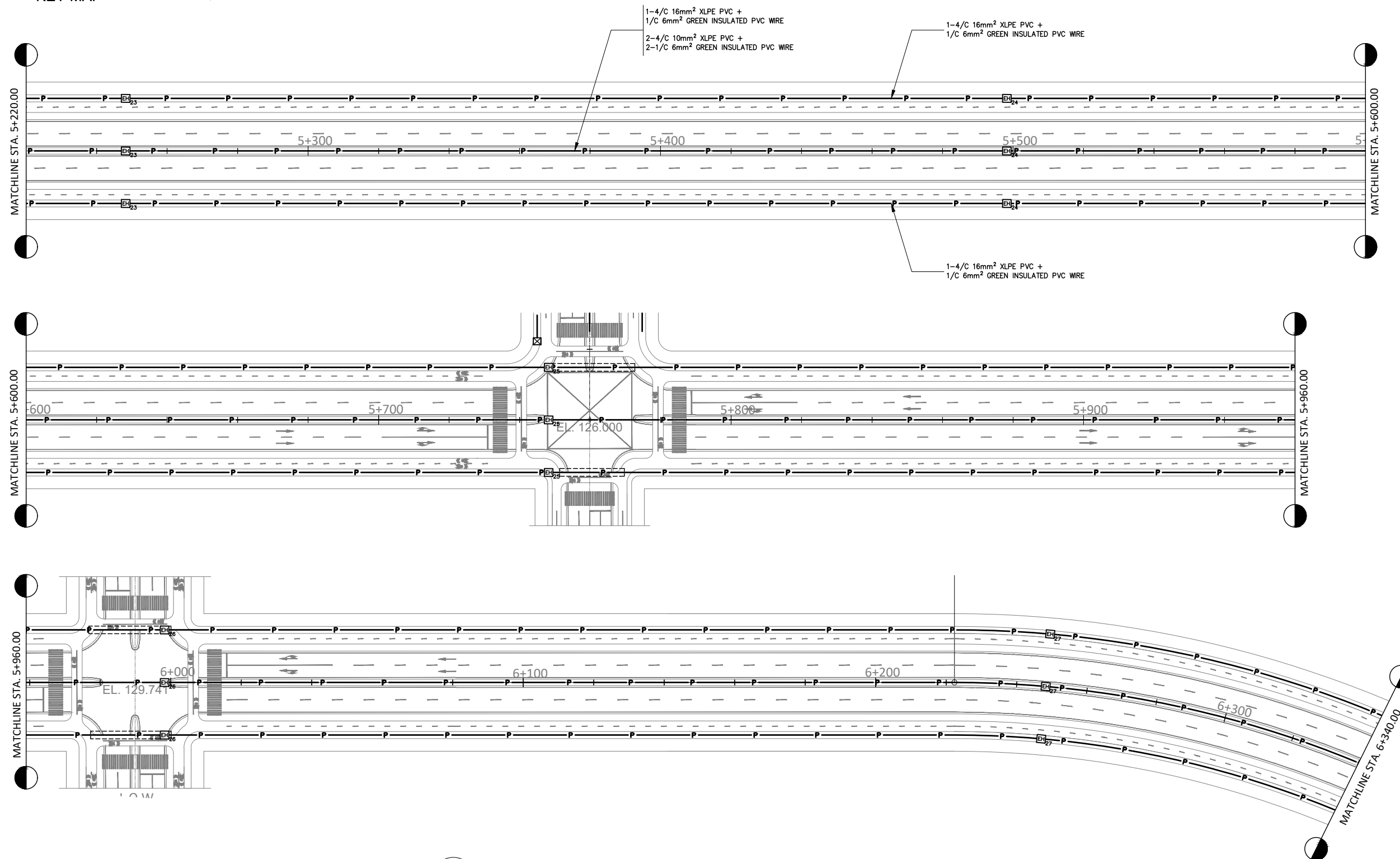


KEY MAP



NOTES

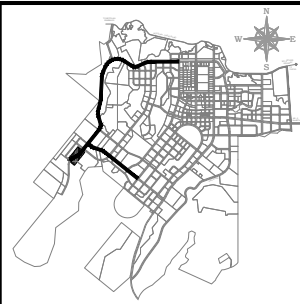
1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03



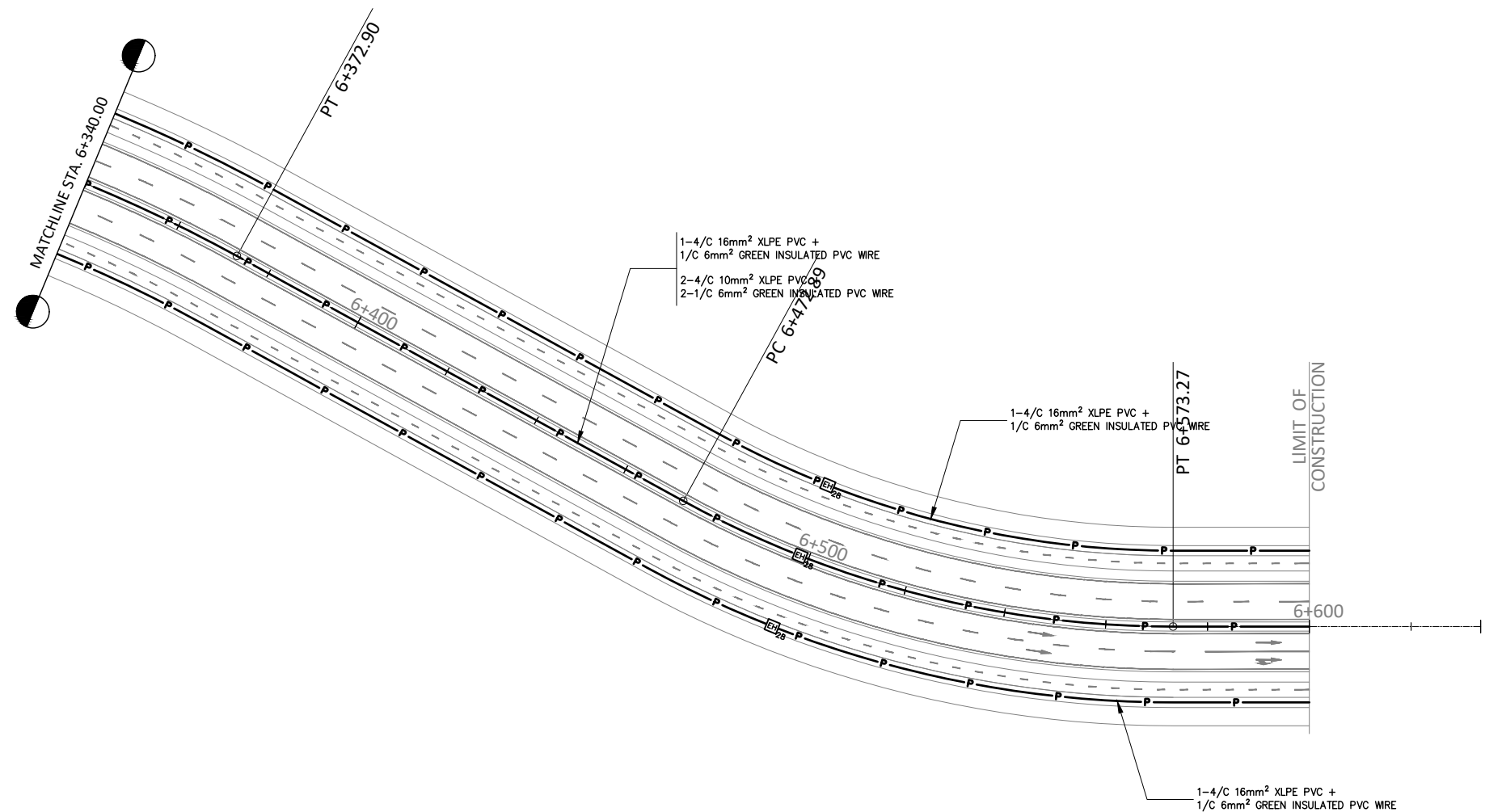
FOR INFORMATION ONLY

1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 5+220 - STA. 6+340)  
PH1-PL-10 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	CHARLES P. PANTE ELECTRICAL ENGINEER DATE:	TEDDY MASANORI PROJECT MANAGER DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC. 	RECOMMENDING APPROVAL RYAN PAUL S. GALURA OIC, PMD CLARK PROJECTS DATE:	APPROVED BY JOSHUA M. BINGCANG SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 POWER DISTRIBUTION LAYOUT STA. 5+220 - STA. 6+340	AS SHOWN DRAWING NO. PH1-PL-10	DRAFT FINAL SHEET NO. 10 OF 14	



KEY MAP



NOTES

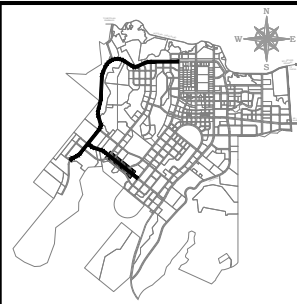
1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

FOR INFORMATION ONLY

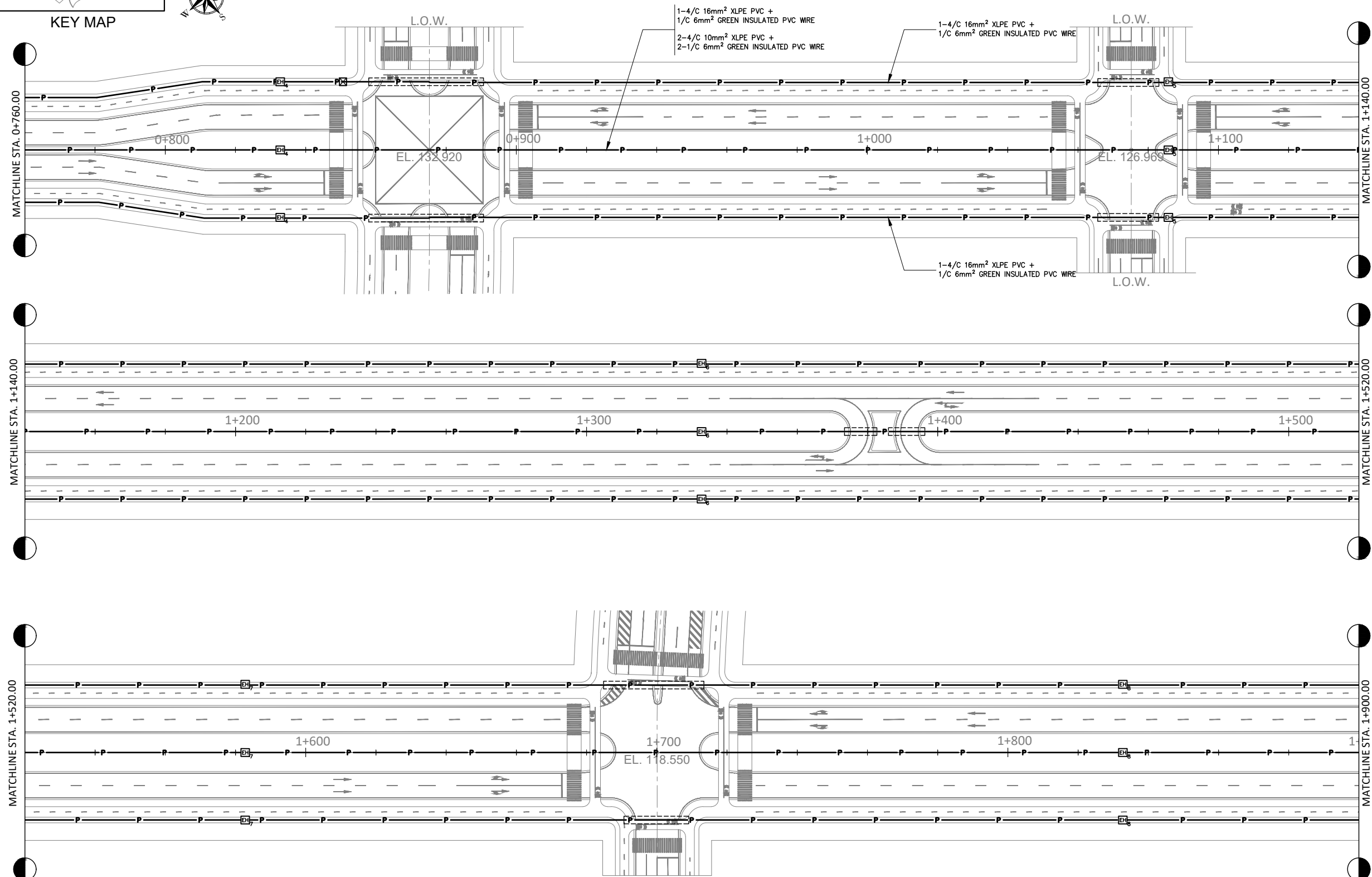
1 ROAD 1 POWER DISTRIBUTION LAYOUT (STA. 6+340 - STA. 6+600)  
PHI-PL-11 SCALE 1:600

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT ROAD 1 POWER DISTRIBUTION LAYOUT STA. 6+340 - STA. 6+600	SCALE AS SHOWN DRAWING NO. PH1-PL-11	DRAWING STATUS DRAFT FINAL SHEET NO. 11 OF 14
RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____					APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____				





KEY MAP



NOTES

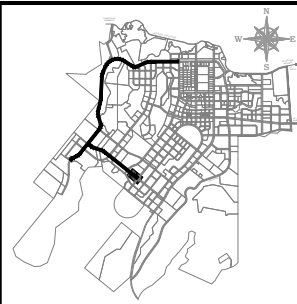
1. FOR GENERAL NOTES SEE PH1-TS-03
2. FOR LEGENDS SEE PH1-TS-03

FOR INFORMATION ONLY

1 ROAD 2 POWER DISTRIBUTION LAYOUT (STA. 0+760 - STA. 1+900)  
PH1-PL-13 SCALE 1:600

CONSULTANTS <b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____		SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____		REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<b>BCDA</b> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE: _____		APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____		PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		SHEET CONTENT <b>ROAD 2 POWER DISTRIBUTION LAYOUT</b> STA. 0+760 - STA. 1+900		SCALE AS SHOWN DRAWING NO. PH1-PL-13		DRAWING STATUS DRAFT FINAL SHEET NO. 13 OF 14	
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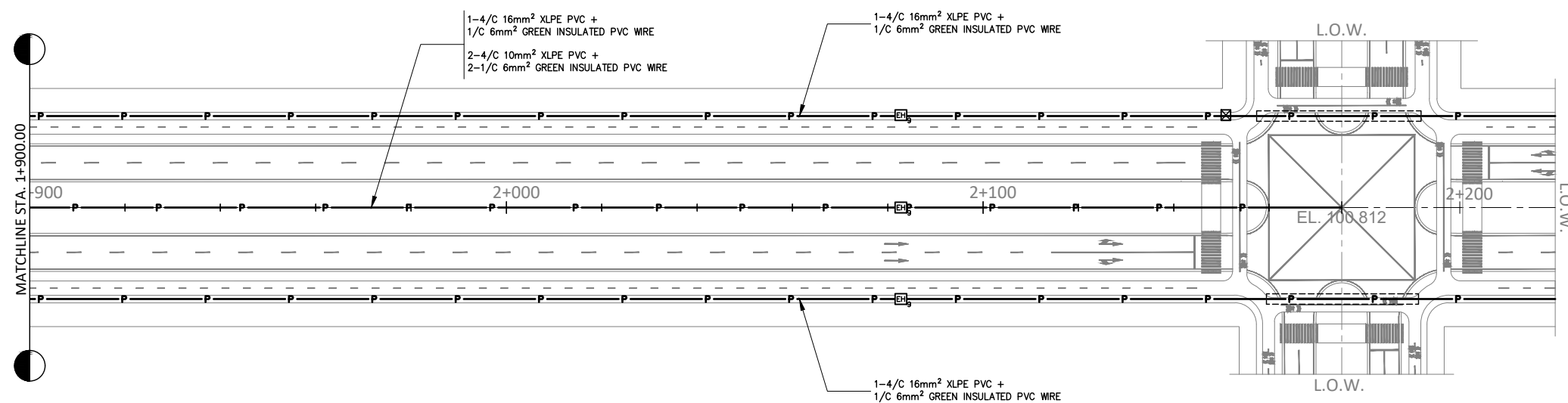


KEY MAP



NOTES

1. FOR GENERAL NOTES  
SEE PH1-TS-03
2. FOR LEGENDS  
SEE PH1-TS-03



FOR INFORMATION ONLY

1 ROAD 2 POWER DISTRIBUTION LAYOUT (STA. 1+900 - STA. 2+175.24)  
PH1-PL-14 SCALE 1:600

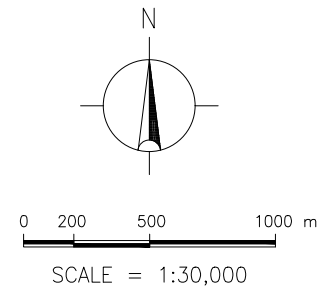
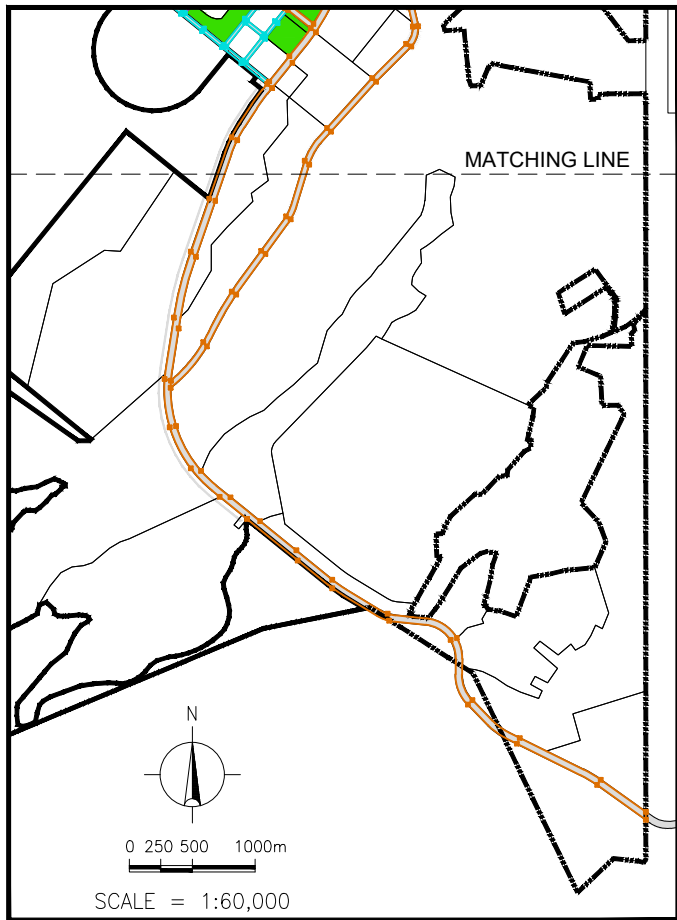
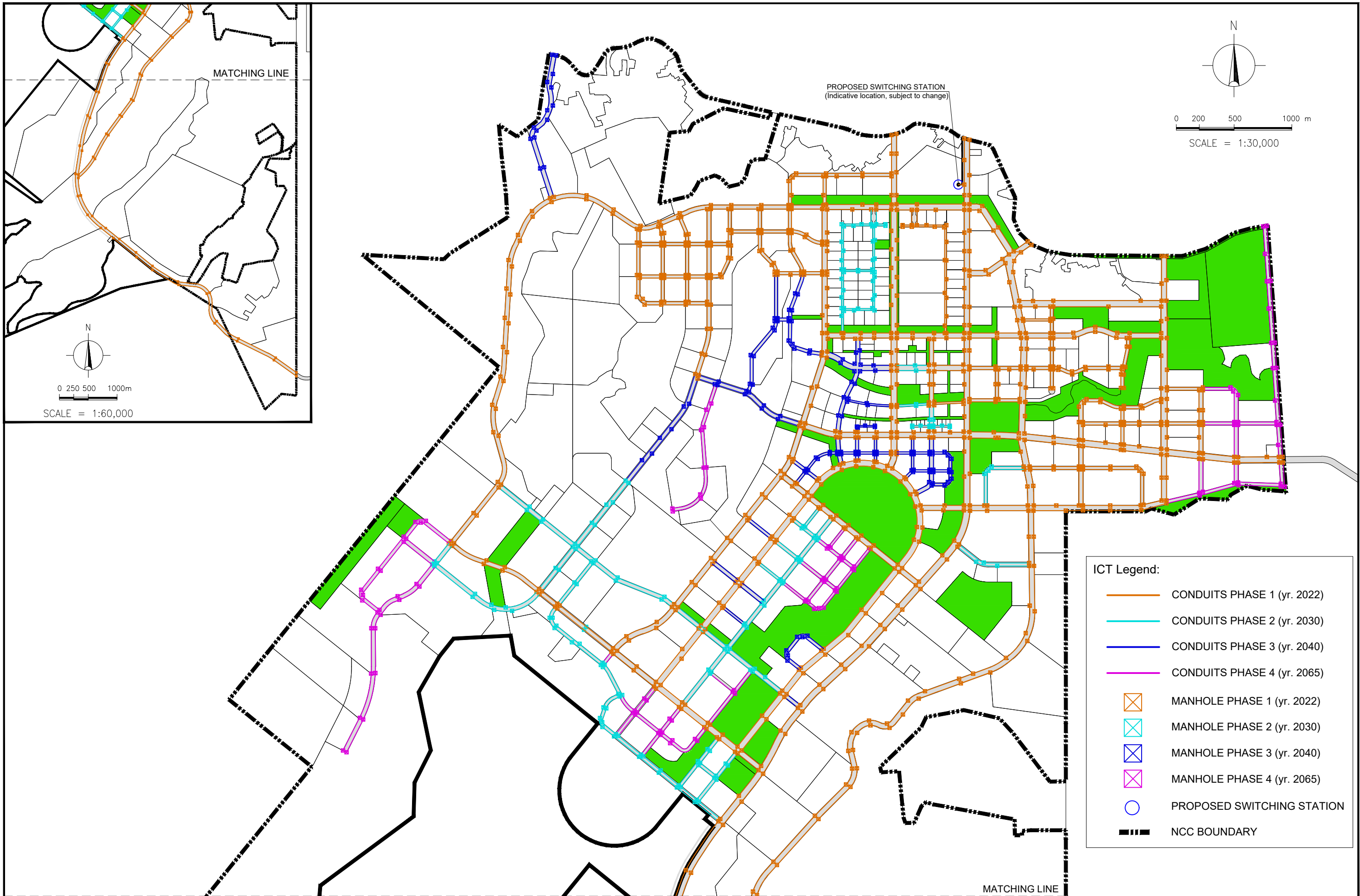
CONSULTANTS <b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		DESIGNED BY <b>CHARLES P. PANTE</b> ELECTRICAL ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____		SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____		REPUBLIC OF THE PHILIPPINES <b>BCDA</b> Board of Commissioners and Administrative Authority <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		SHEET CONTENT <b>ROAD 2 POWER DISTRIBUTION LAYOUT</b> STA. 1+900 - STA. 2+175.24		SCALE AS SHOWN DRAWING NO. PH1-PL-14		DRAWING STATUS DRAFT FINAL SHEET NO. 14 OF 14	
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# FIBER OPTIC LAYOUT

DWG No.	SHEET CONTENT	SHEET NO.
PH1-FOC-01	FIBER OPTIC DRAWING INDEX	1 OF 16
PH1-FOC-02	GENERAL LAYOUT PLAN, CONDUIT & MANHOLE LAYOUT FOR COMMUNICATION CABLING (PHASING) INFORMATION & COMMUNICATION SYSTEM	2 OF 16
PH1-FOC-03	ROAD 1 FIBER OPTIC LAYOUT STA.0+000 – STA. 1+080	3 OF 16
PH1-FOC-04	ROAD 1 FIBER OPTIC LAYOUT STA. 1+080 – STA. 1+800	4 OF 16
PH1-FOC-05	ROAD 1 FIBER OPTIC LAYOUT STA. 1+800 – STA. 2+560	5 OF 16
PH1-FOC-06	ROAD 1 FIBER OPTIC LAYOUT STA. 2+560 – STA. 3+320	6 OF 16
PH1-FOC-07	ROAD 1 FIBER OPTIC LAYOUT STA. 3+320 – STA. 4+460	7 OF 16
PH1-FOC-08	ROAD 1 FIBER OPTIC LAYOUT STA. 4+460 – STA. 5+220	8 OF 16
PH1-FOC-09	ROAD 1 FIBER OPTIC LAYOUT. 5+220 – STA. 6+340	9 OF 16
PH1-FOC-10	ROAD 1 FIBER OPTIC LAYOUT. 6+340 – STA. 6+600	10 OF 16
PH1-FOC-11	ROAD 2 FIBER OPTIC LAYOUT STA. 0+000 – STA. 0+760	11 OF 16
PH1-FOC-12	ROAD 2 FIBER OPTIC LAYOUT STA. 0+760 – STA. 1+900	12 OF 16
PH1-FOC-13	ROAD 2 FIBER OPTIC LAYOUT STA. 1+900 – STA. 2+175.24	13 OF 16
PH1-FOC-14	ROAD 1 AND ROAD 2 CCTV & MANHOLE STATIONING NUMBER	14 OF 16
PH1-FOC-15	SERVICE BOX, HANDHOLE AND PULL BOX DETAILS	15 OF 16
PH1-FOC-16	SERVICE BOX LAYOUT AND CCTV TYPE	16 OF 16

**1** FIBER OPTIC DRAWING INDEX  
PH1-FOC-01 NOT TO SCALE

CONSULTANTS		DESIGNED BY <b>GRACE B. AGUILOS</b> ICT ENGINEER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> Board, Commission and Administrative Authority RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE: _____	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT <b>FIBER OPTIC DRAWING INDEX</b>	SCALE AS SHOWN DRAWING NO. PH1-FOC-01	DRAWING STATUS DRAFT FINAL SHEET NO. 1 OF 16
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____								



**ICT Legend:**

- CONDUITS PHASE 1 (yr. 2022)
- CONDUITS PHASE 2 (yr. 2030)
- CONDUITS PHASE 3 (yr. 2040)
- CONDUITS PHASE 4 (yr. 2065)
- ⊠ MANHOLE PHASE 1 (yr. 2022)
- ⊠ MANHOLE PHASE 2 (yr. 2030)
- ⊠ MANHOLE PHASE 3 (yr. 2040)
- ⊠ MANHOLE PHASE 4 (yr. 2065)
- PROPOSED SWITCHING STATION
- NCC BOUNDARY

CONSULTANTS		DESIGNED BY <b>GRACE B. AGUILOS</b> ICT ENGINEER	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER	REPUBLIC OF THE PHILIPPINES	<b>BCDA</b> Bureau of Community Development and Government-Private Cooperation	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT GENERAL LAYOUT PLAN, CONDUIT & MANHOLE LAYOUT FOR COMMUNICATION CABLING (PHASING) INFORMATION & COMMUNICATION SYSTEM	SCALE AS SHOWN	DRAWING STATUS DRAFT FINAL
NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER	DATE:	PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> SVP, PMD CLARK PROJECTS	APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP		DRAWING NO. PH1-FOC-02	SHEET NO. 2 OF 16

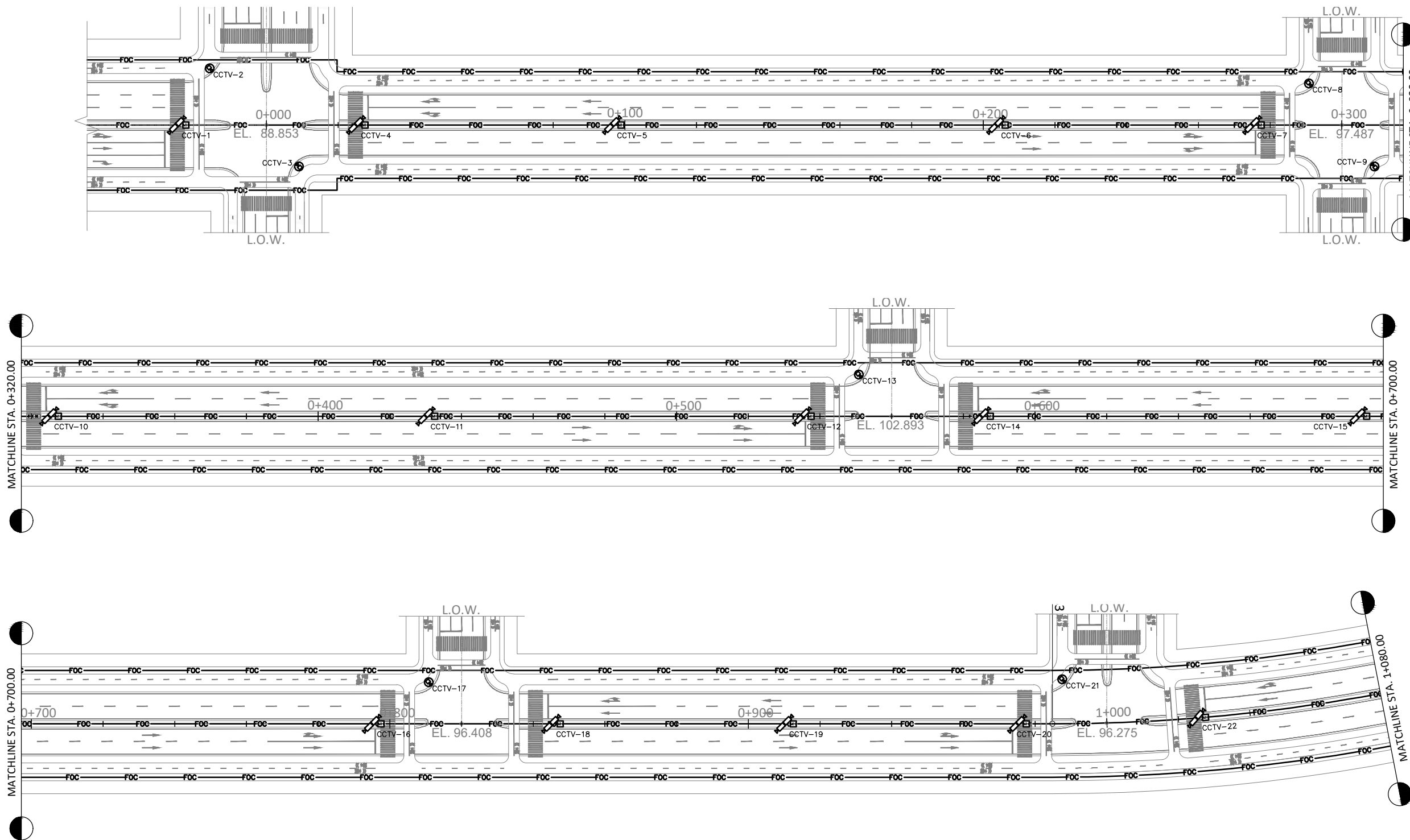


KEY MAP



GENERAL NOTES

1. THE OWNER AND/OR OPERATOR AT THE PROJECT WILL, AT ITS OWN EXPENSE, FURNISH AND INSTALL ACCORDANCE WITH CONSTRUCTION STANDARDS OF NATIONAL AND LOCAL AUTHORITIES CONCERNED AND REQUIREMENTS OF TELECOMMUNICATION COMPANIES WITH REFERENCE TO BUILDING INDUSTRY AND CONSULTING SERVICES (BICS) MANUAL.
2. THE ENTIRE REQUIREMENTS OF THE PROJECT FOR FIBER OPTIC BACKBONE SHALL BE SUPPLIED AND INSTALLED BY TELCOS.
3. ALL SERVICE BOXES, HANDHOLES, PULL BOXES AND CONDUIT WHICH ARE PART OF THIS DISTRIBUTION SYSTEM BACKBONE SHALL BE UNDER PACKAGE OF GENERAL CONTRACTOR.
4. ALL FIBER OPTICS CABLE OWNED BY DIFFERENT TELEPHONE COMPANIES SHALL BE INSTALLED IN COLOR CODED CONDUIT INSIDE THE 100mmØ CONDUIT (MULTI-DUCTING SYSTEM).
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT AND COORDINATE THE INSTALLATION REQUIREMENTS OF THE PROJECT TO THE SITE PROJECT MANAGER.
6. ANY CHANGES MADE BY THE CONTRACTOR IN THE APPROVED PLANS SHALL BE PROPERLY COORDINATED AND APPROVED BY THE DESIGNER AND THE OWNER.
7. ALL ROAD CROSSING CONDUIT SHALL BE IN CONCRETE ENCASUREMENT.
8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



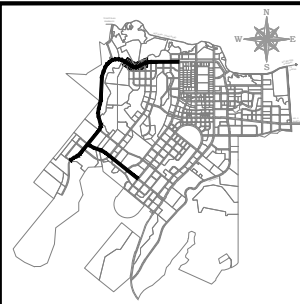
1 ROAD 1 FIBER OPTIC LAYOUT (STA.0+000 - STA.1+080)  
PH1-FOC-03 SCALE 1:600

LEGENDS:

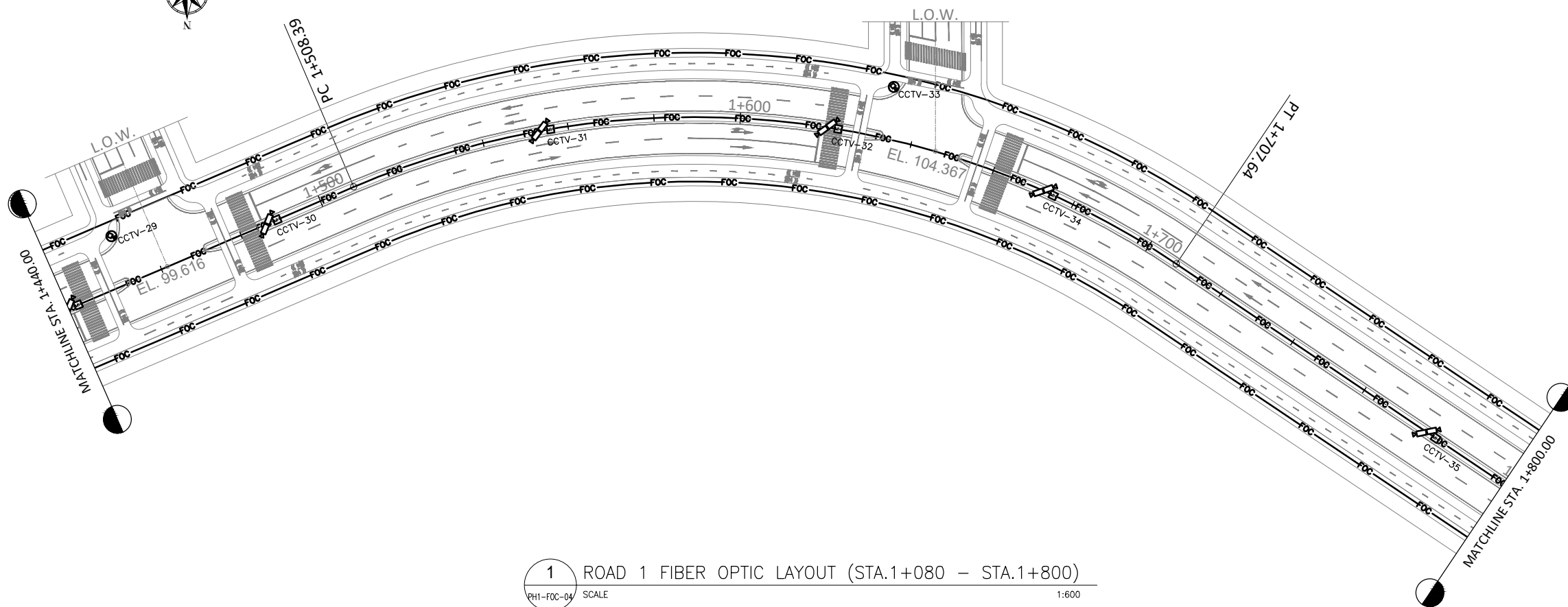
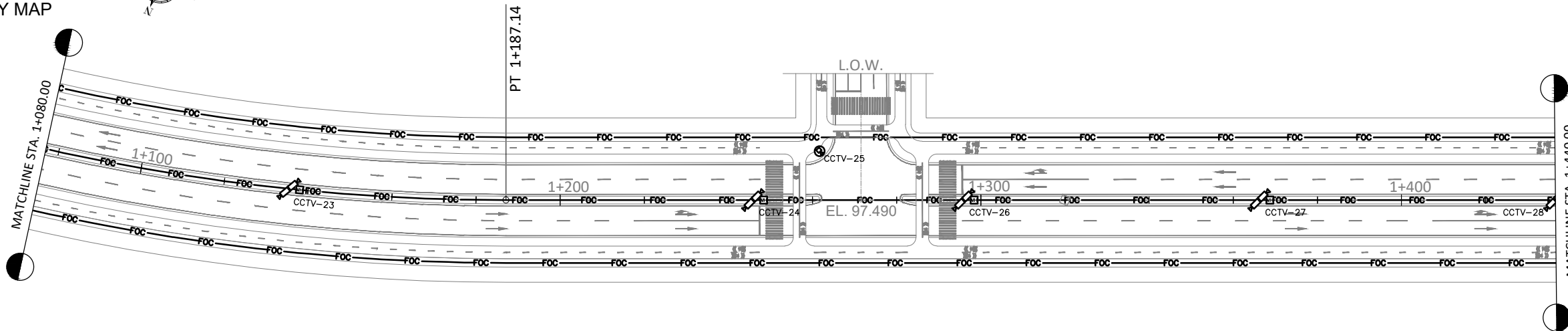
- FOC — FIBER OPTIC CABLE IN CONDUIT
- HH HAND HOLE
- MH MANHOLE
- SB SERVICE BOX
- PB PULL BOX
- Fixed Type CCTV Camera
- Fixed Type CCTV Camera in a Pole
- (DOME TYPE) CCTV CAMERA W/ PAN, TILT, & ZOOM
- STUB OUT CONDUIT
- SERVICE ENTRANCE AND TAPPING POINT OF TELECOM COMPANIES

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	<b>GRACE B. AGUILOS</b> ICT ENGINEER	<b>TEDDY MASANORI</b> PROJECT MANAGER	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	ROAD 1 FIBER OPTIC LAYOUT STA. 0+000 - STA. 1+080	AS SHOWN	DRAFT FINAL
		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER	DATE:					DATE:	<b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS





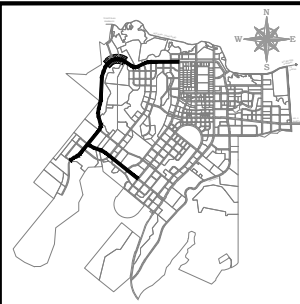
KEY MAP



NOTES

1. FOR GENERAL NOTES SEE PH1-FOC-03
2. FOR LEGENDS SEE PH1-FOC-03

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	<b>GRACE B. AGUILOS</b> ICT ENGINEER	<b>TEDDY MASANORI</b> PROJECT MANAGER	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL	<b>RYAN PAUL S. GALURA</b> D/C, PMO CLARR PROJECTS	<b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		AS SHOWN	DRAFT FINAL
		DATE:	DATE:							DATE:	DATE:
		CHECKED BY						ROAD 1 FIBER OPTIC LAYOUT STA. 1+080 - STA. 1+800		PH1-FOC-04	4 OF 16
		DATE:	DATE:								

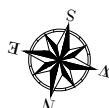
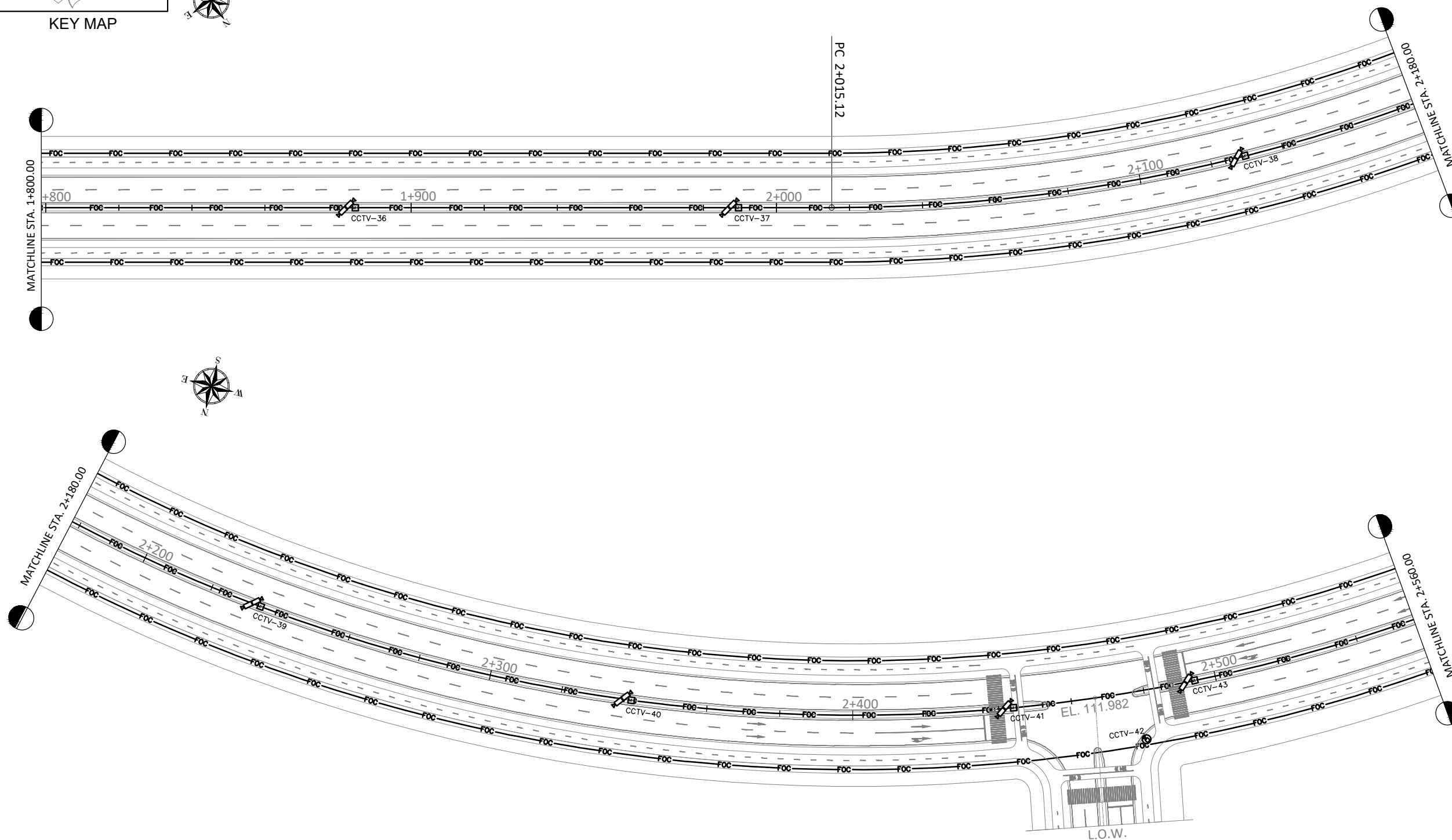


KEY MAP



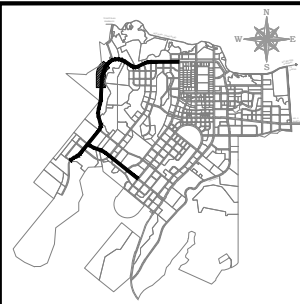
NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03

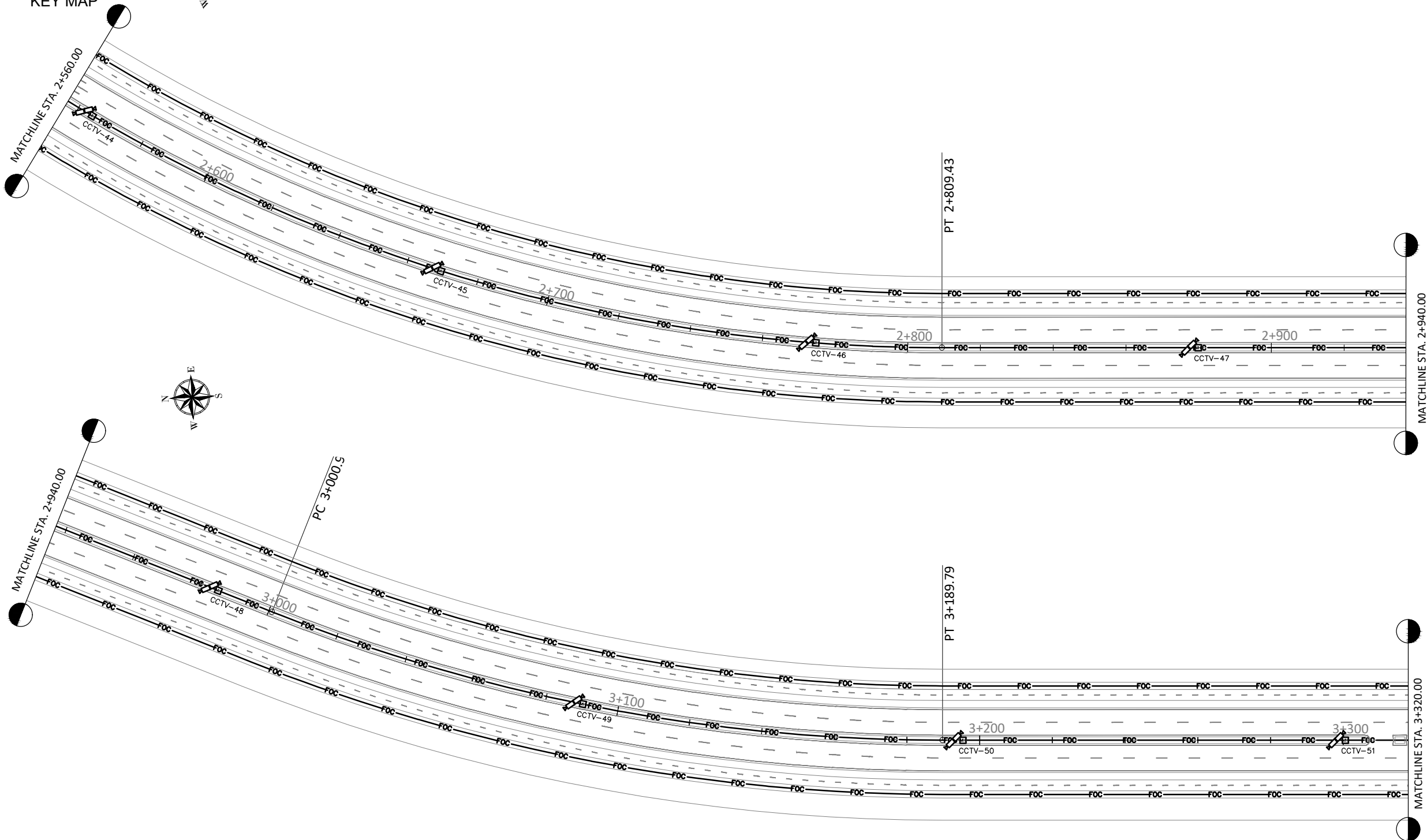


1 ROAD 1 FIBER OPTIC LAYOUT (STA.1+800 - STA.2+560)  
PH1-FOC-05 SCALE 1:600

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>DESIGNED BY</b> <b>GRACE B. AGUILOS</b> ICT ENGINEER DATE: _____ <b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>SUBMITTED BY</b> <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMD CLARK PROJECTS DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>PROJECT TITLE</b> <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>SHEET CONTENT</b> ROAD 1 FIBER OPTIC LAYOUT STA. 1+800 - STA. 2+560	<b>SCALE</b> AS SHOWN DRAWING NO. PH1-FOC-05	<b>DRAWING STATUS</b> DRAFT FINAL SHEET NO. 5 OF 16
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KEY MAP

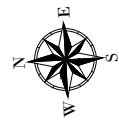
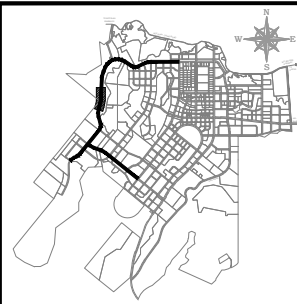


NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03

1 ROAD 1 FIBER OPTIC LAYOUT (STA.2+560 - STA.3+320)  
PH1-FOC-06 SCALE 1:600

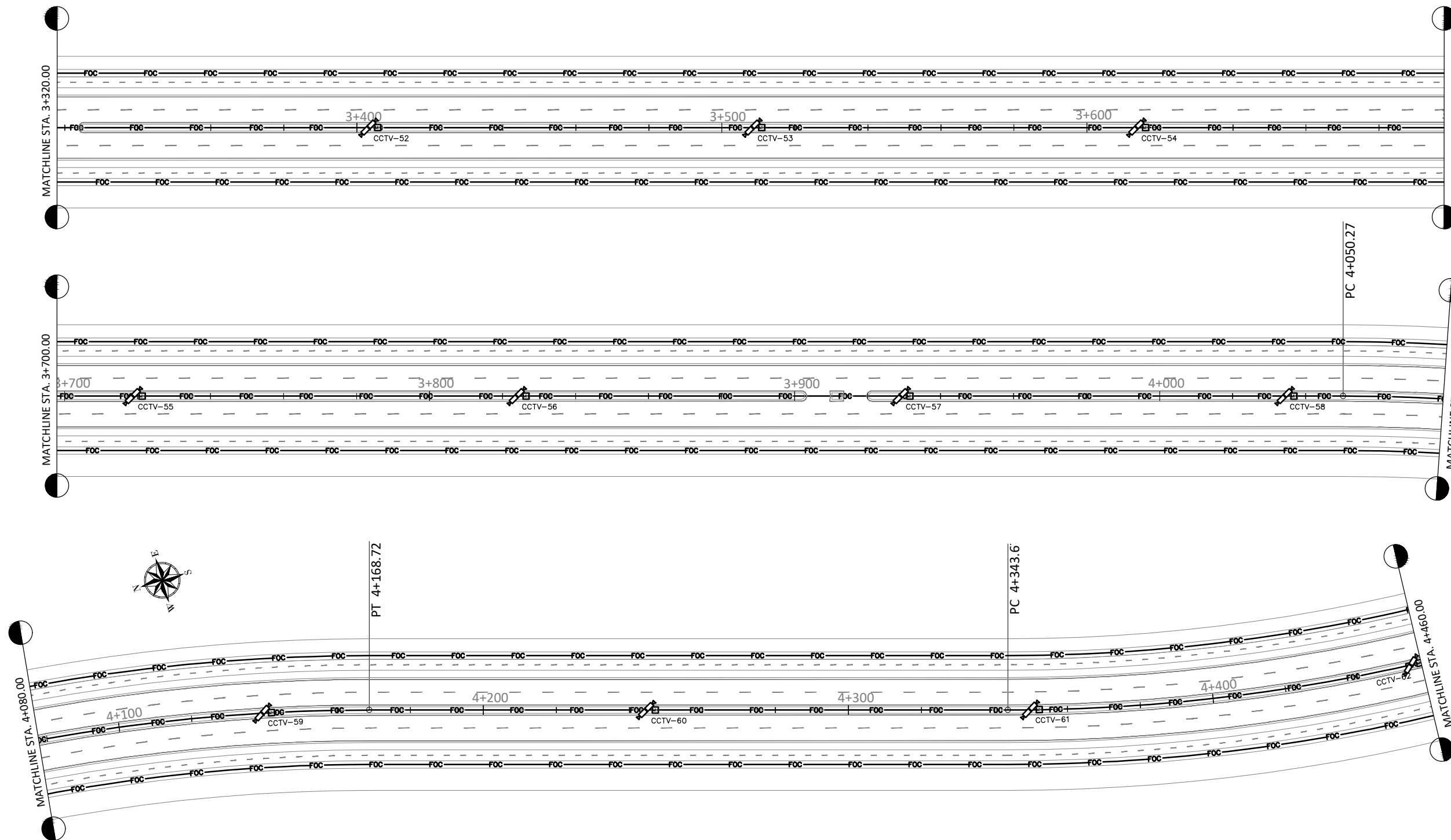
<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>DESIGNED BY</b> <b>GRACE B. AGUILOS</b> ICT ENGINEER DATE: _____ <b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>SUBMITTED BY</b> <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>PROJECT TITLE</b> <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>SHEET CONTENT</b> <b>ROAD 1 FIBER OPTIC LAYOUT</b> STA. 2+560 - STA. 3+320	<b>SCALE</b> AS SHOWN DRAWING NO. PH1-FOC-06	<b>DRAWING STATUS</b> DRAFT FINAL SHEET NO. 6 OF 16
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KEY MAP

NOTES

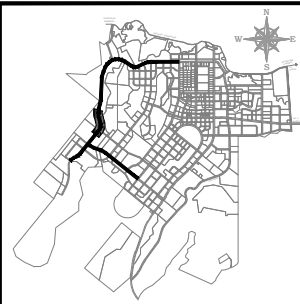
1. FOR GENERAL NOTES SEE PH1-FOC-03
2. FOR LEGENDS SEE PH1-FOC-03



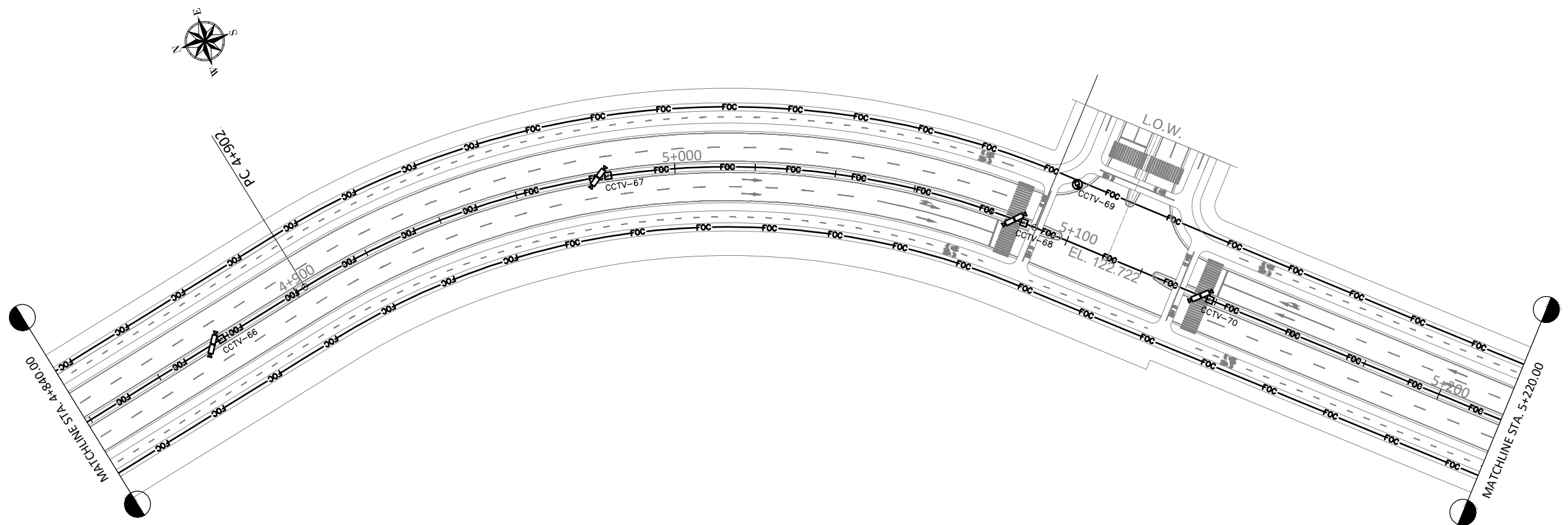
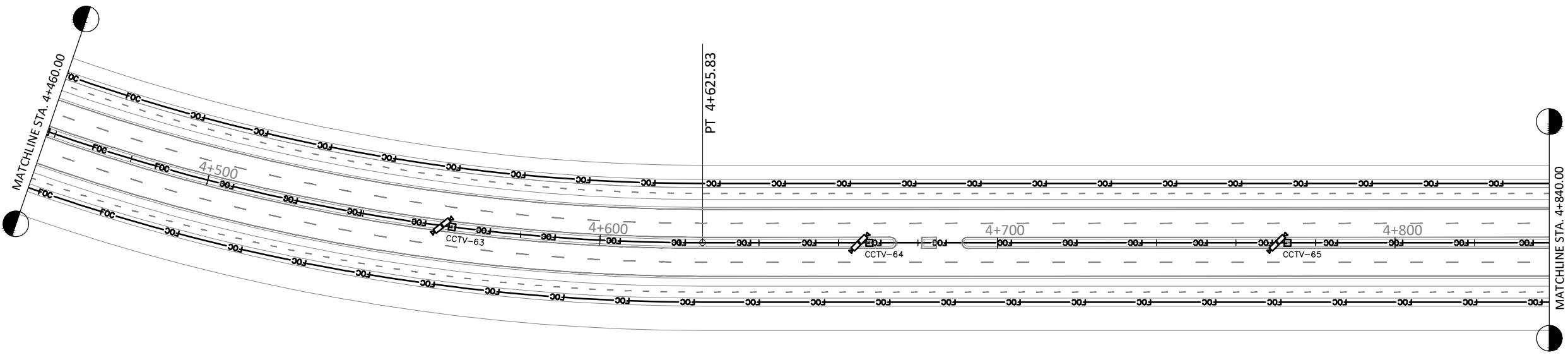
1 ROAD 1 FIBER OPTIC LAYOUT (STA.3+320 - STA.4+460)  
PH1-FOC-07 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	<b>GRACE B. AGUILOS</b> ICT ENGINEER	<b>TEDDY MASANORI</b> PROJECT MANAGER	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL	<b>RYAN PAUL S. GALURA</b> SVP, PMD CLARK PROJECTS	<b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+000) & R2 (STA. 0+000 - STA. 2+220)		AS SHOWN	DRAFT FINAL
		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER	DATE:							DATE:	DATE:
										PH1-FOC-07	7 OF 16





KEY MAP



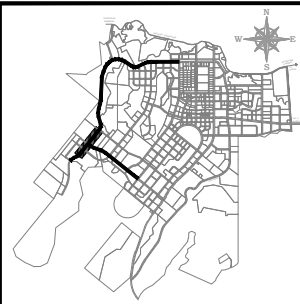
NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03

1 ROAD 1 FIBER OPTIC LAYOUT (STA.4+460 - STA.5+220)  
PH1-FOC-08 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	<b>GRACE B. AGUILOS</b> ICT ENGINEER	<b>TEDDY MASANORI</b> PROJECT MANAGER	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL	<b>RYAN PAUL S. GALURA</b> SVP, PMO CLARK PROJECTS	<b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		AS SHOWN	DRAFT FINAL
		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER	DATE:							DATE:	DATE:
										PH1-FOC-08	8 OF 16



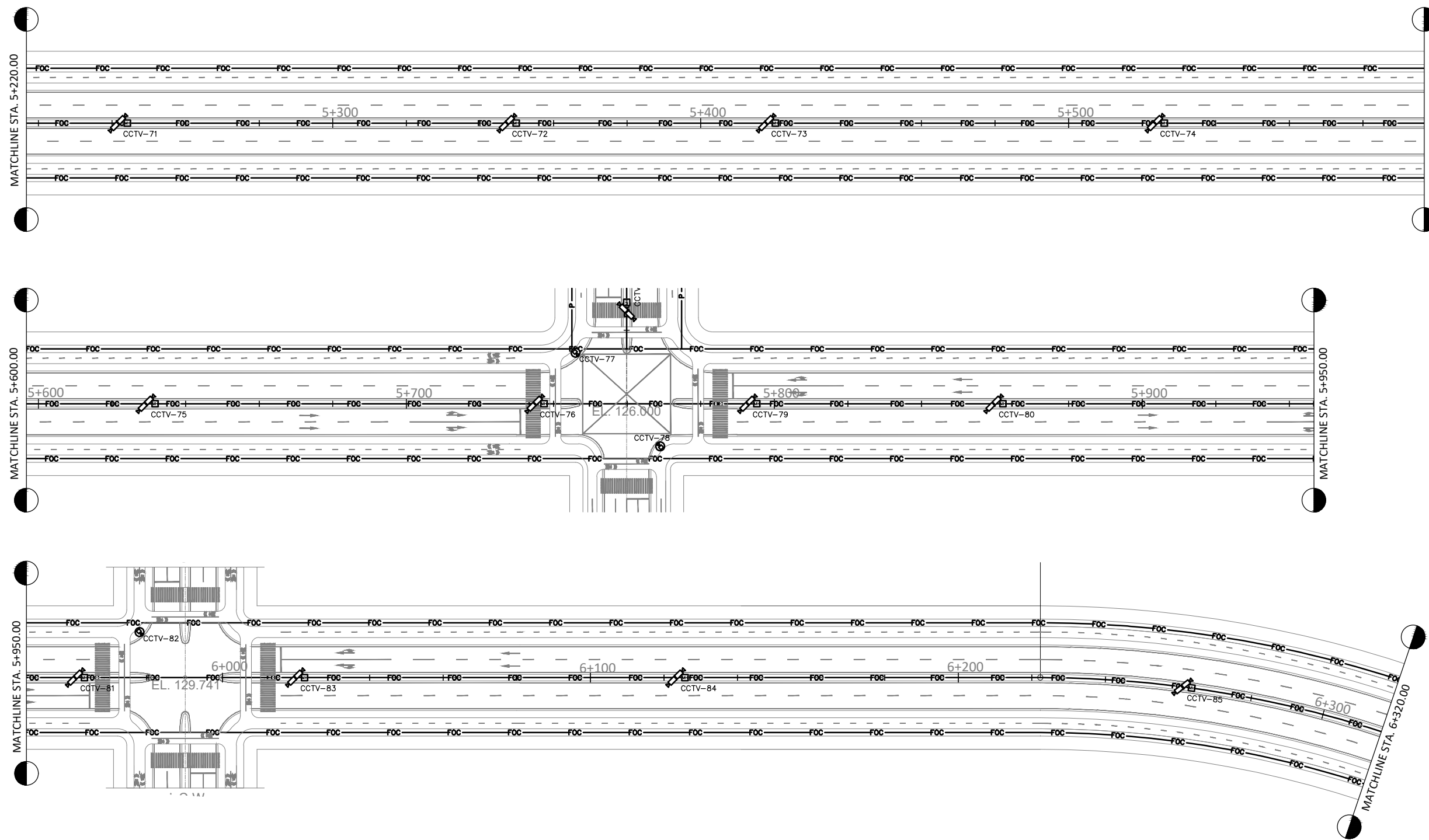


KEY MAP




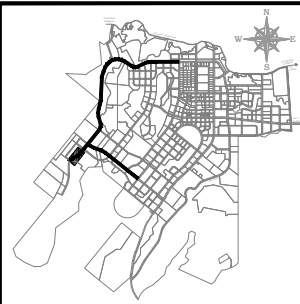
NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03

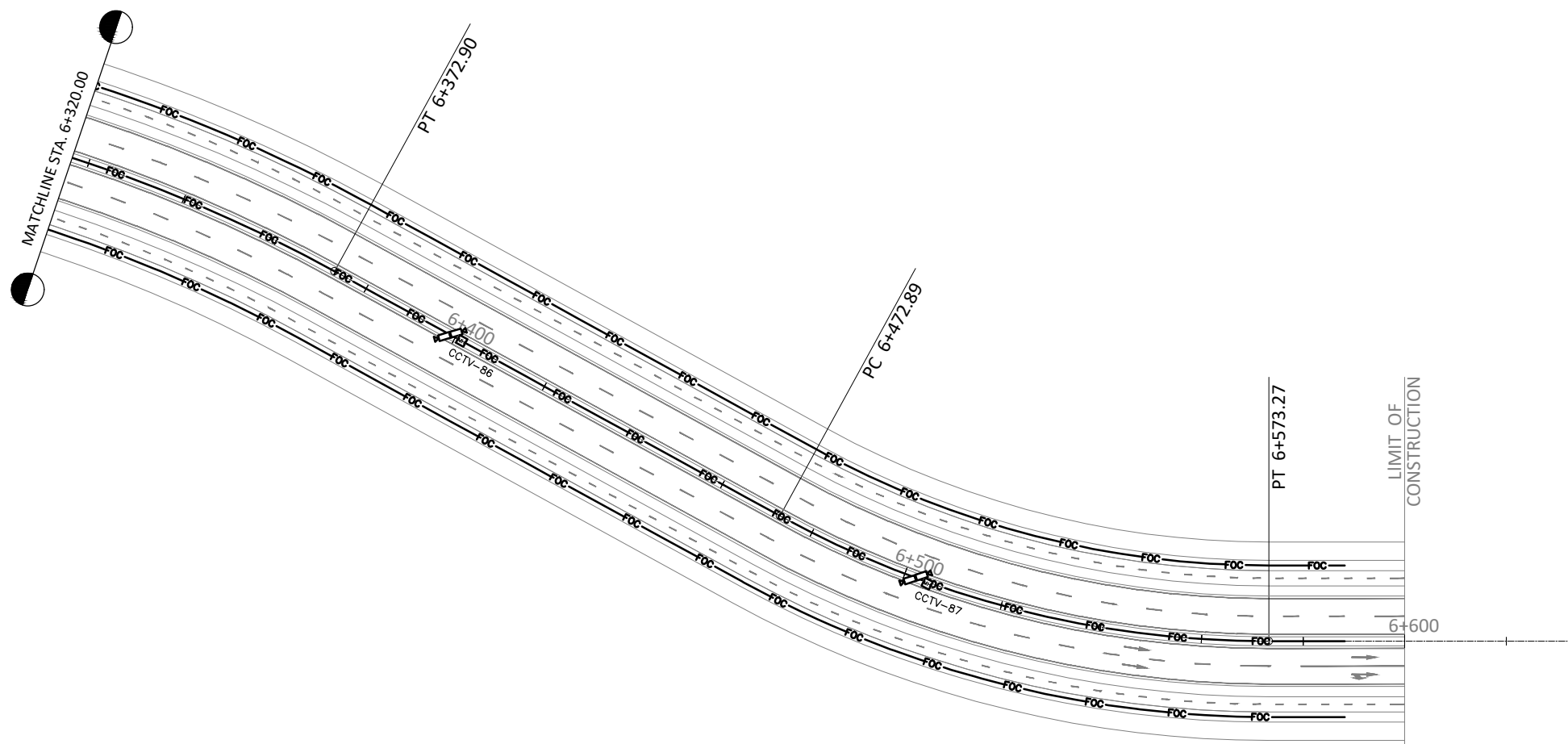


1 ROAD 1 FIBER OPTIC LAYOUT (STA.5+220 - STA.6+320)  
PH1-FOC-09 SCALE 1:600

CONSULTANTS <b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		DESIGNED BY <b>GRACE B. AGUILOS</b> ICT ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____		SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____		REPUBLIC OF THE PHILIPPINES <b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		 RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> SVP, PMD CLARK PROJECTS DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____		PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		SHEET CONTENT <b>ROAD 1 FIBER OPTIC LAYOUT</b> STA. 5+220 - STA. 6+320		SCALE AS SHOWN DRAWING NO. PH1-FOC-09		DRAWING STATUS DRAFT FINAL SHEET NO. 9 OF 16	
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KEY MAP

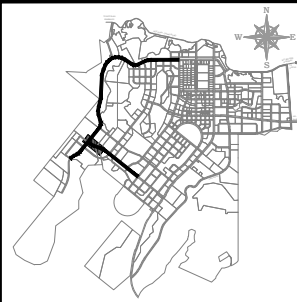


NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03

1 ROAD 1 FIBER OPTIC LAYOUT (STA.6+320 - STA.6+600)  
PH1-FOC-10 SCALE 1:600

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		DESIGNED BY <b>GRACE B. AGUILOS</b> ICT ENGINEER DATE: _____ CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	SUBMITTED BY <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> Board of Commissioners and Administrative Authorities RECOMMENDING APPROVAL <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ APPROVED BY <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	PROJECT TITLE <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SHEET CONTENT ROAD 1 FIBER OPTIC LAYOUT STA. 6+320 - STA. 6+600	SCALE AS SHOWN DRAWING NO. PH1-FOC-10	DRAWING STATUS DRAFT FINAL SHEET NO. 10 OF 16
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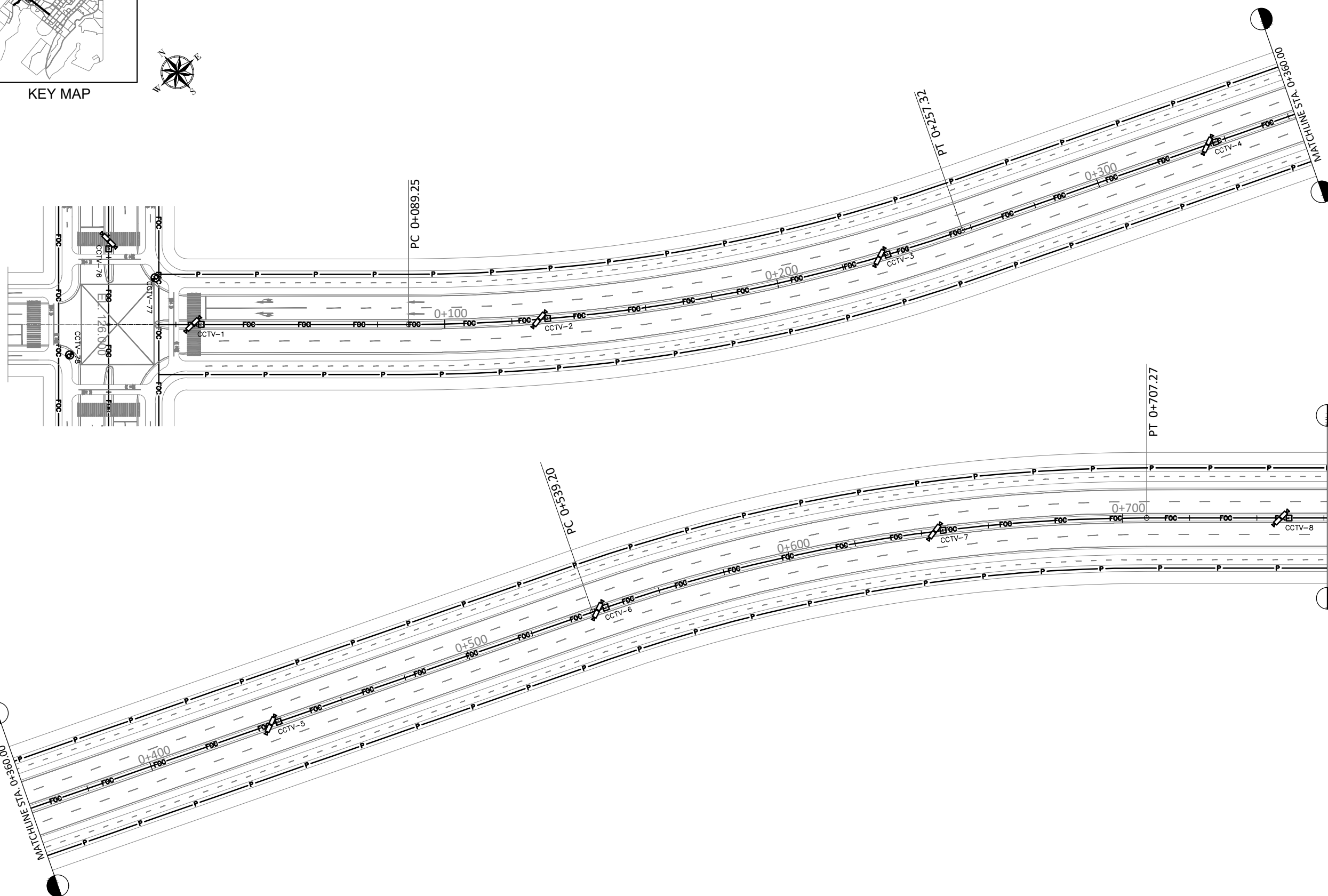


KEY MAP



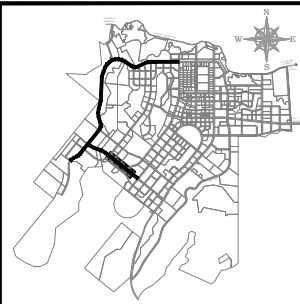
NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03



1 ROAD 2 FIBER OPTIC LAYOUT (STA.0+000 - STA.0+760)  
PH1-FOC-11 SCALE 1:600

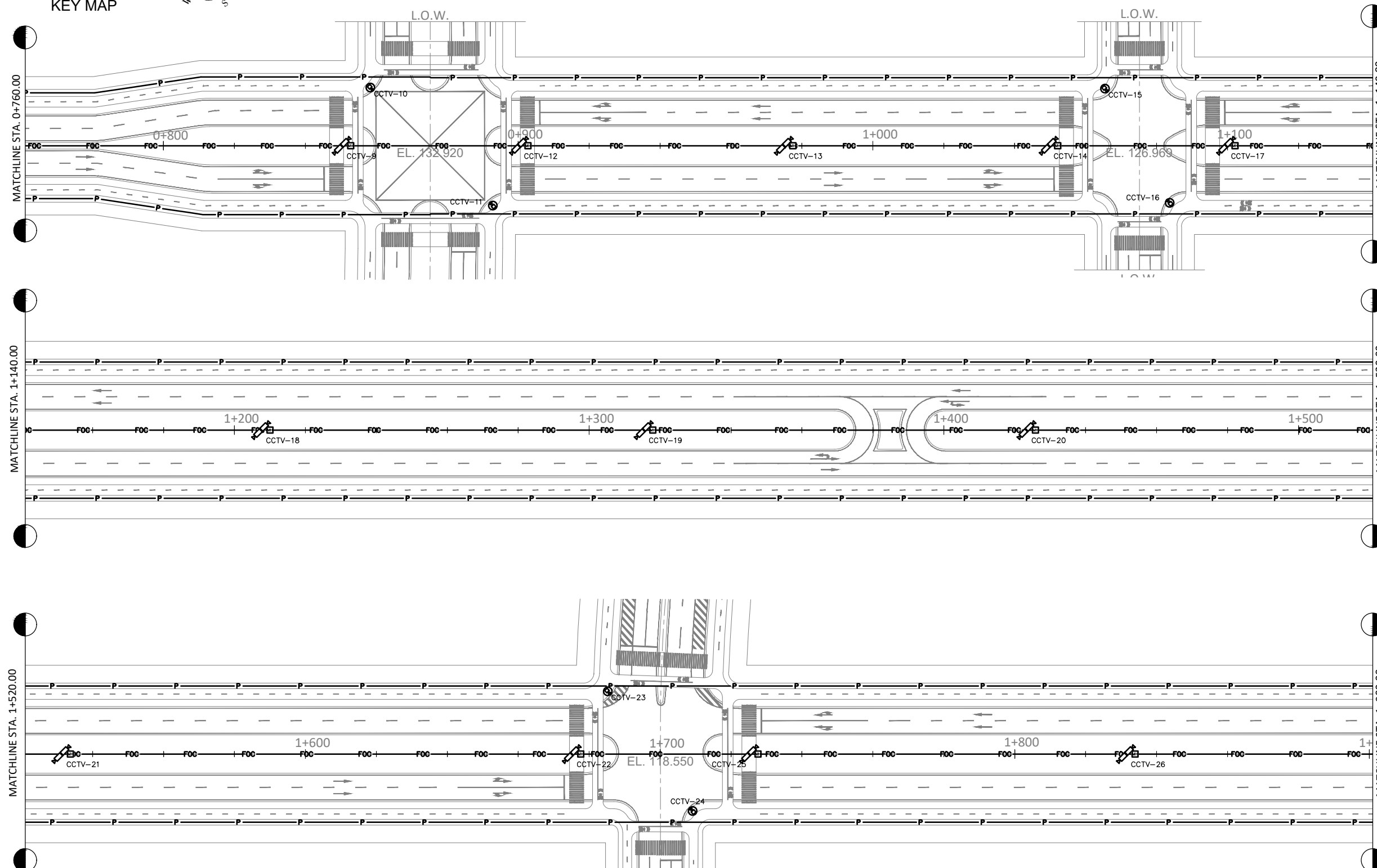
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.  PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	GRACE B. AGUILOS ICT ENGINEER DATE:	TEDDY MASANORI PROJECT MANAGER DATE:	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL		APPROVED BY		ROAD 2 FIBER OPTIC LAYOUT STA. 0+000 - STA. 0+760		AS SHOWN	DRAFT FINAL
	CHECKED BY CHARLES P. PANTE CO-TEAM LEADER DATE:			RYAN PAUL S. GALURA OIC, PMO CLARK PROJECTS DATE:	JOSHUA M. BINGCANG SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)		DRAWING NO.	SHEET NO.		
								PH1-FOC-11	11 OF 16		



KEY MAP

NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03



1 ROAD 2 FIBER OPTIC LAYOUT (STA.0+760 - STA.1+900)  
PH1-FOC-12 SCALE 1:600

<b>CONSULTANTS</b> NIPPON KOEI CO.,LTD. PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		<b>DESIGNED BY</b> <b>GRACE B. AGUILOS</b> ICT ENGINEER DATE: _____ <b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE: _____	<b>SUBMITTED BY</b> <b>TEDDY MASANORI</b> PROJECT MANAGER DATE: _____	REPUBLIC OF THE PHILIPPINES PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>BCDA</b> BUREAU OF CONSTRUCTION AND DEVELOPMENT ADMINISTRATION <b>RECOMMENDING APPROVAL</b> <b>APPROVED BY</b> <b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE: _____ <b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE: _____	<b>PROJECT TITLE</b> <b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1</b> R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	<b>SHEET CONTENT</b> <b>ROAD 2 FIBER OPTIC LAYOUT</b> STA. 0+760 - STA. 1+900	<b>SCALE</b> AS SHOWN DRAWING NO. PH1-FOC-12	<b>DRAWING STATUS</b> DRAFT FINAL SHEET NO. 12 OF 16
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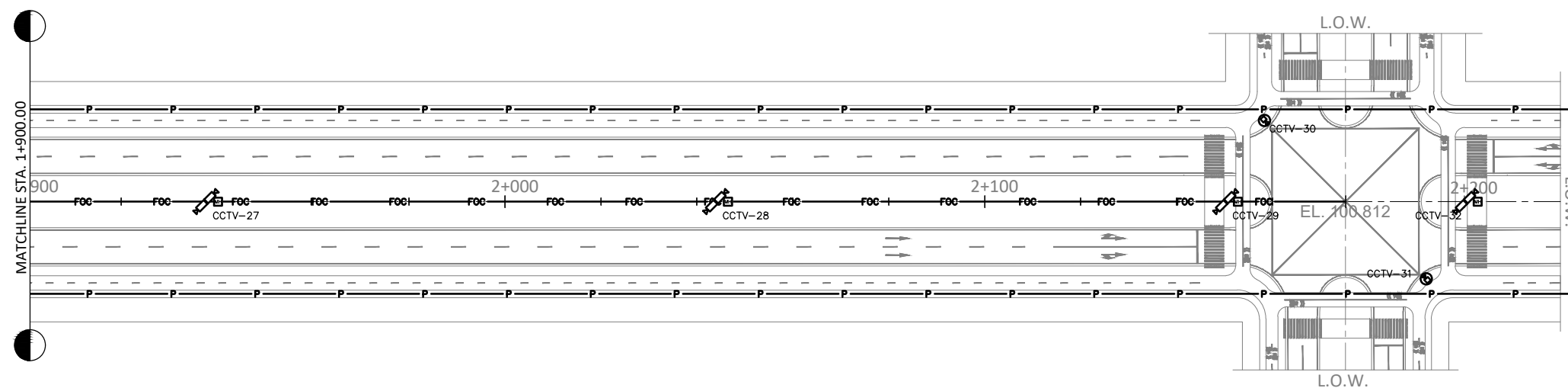


KEY MAP



NOTES

1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03



1 ROAD 2 FIBER OPTIC LAYOUT (STA.1+900 - STA.2+175.24)  
PH1-FOC-13 SCALE 1:600

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD. <b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS	<b>GRACE B. AGUILOS</b> ICT ENGINEER DATE:	<b>TEDDY MASANORI</b> PROJECT MANAGER DATE:	<b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	<b>RYAN PAUL S. GALURA</b> OIC, PMO CLARK PROJECTS DATE:	<b>JOSHUA M. BINGCANG</b> SVP, CONVERSION AND DEVELOPMENT GROUP DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</b>	<b>ROAD 2 FIBER OPTIC LAYOUT STA. 1+900 - STA. 2+175.24</b>	AS SHOWN DRAWING NO. PH1-FOC-13	DRAFT FINAL SHEET NO. 13 OF 16
	<b>CHECKED BY</b> <b>CHARLES P. PANTE</b> CO-TEAM LEADER DATE:								







ROAD 1 CCTV AND HANDHOLE LOCATION				ROAD 2 CCTV AND HANDHOLE LOCATION	
CCTV NUMBER	STATION NUMBER	CCTV NUMBER	STATION NUMBER	CCTV NUMBER	STATION NUMBER
CCTV-1	STA.0-025.019	CCTV-46	STA.2+772.179	CCTV-1	STA.0+025.00
CCTV-2	STA.0-015.773	CCTV-47	STA.2+877.35	CCTV-2	STA.0+128.155
CCTV-3	STA.0+009.115	CCTV-48	STA.2+982.521	CCTV-3	STA.0+231.31
CCTV-4	STA.0+024.981	CCTV-49	STA.3+087.692	CCTV-4	STA.0+334.465
CCTV-5	STA.0+096.409	CCTV-50	STA.3+192.863	CCTV-5	STA.0+437.62
CCTV-6	STA.0+203.552	CCTV-51	STA.3+298.034	CCTV-6	STA.0+540.775
CCTV-7	STA.0+274.981	CCTV-52	STA.3+403.205	CCTV-7	STA.0+643.93
CCTV-8	STA.0+290.846	CCTV-53	STA.3+508.376	CCTV-8	STA.0+747.085
CCTV-9	STA.0+308.9	CCTV-54	STA.3+613.547	CCTV-9	STA.0+850.236
CCTV-10	STA.0+324.981	CCTV-55	STA.3+718.718	CCTV-10	STA.0+858.347
CCTV-11	STA.0+429.982	CCTV-56	STA.3+823.889	CCTV-11	STA.0+892.403
CCTV-12	STA.0+534.984	CCTV-57	STA.3+929.06	CCTV-12	STA.0+900.236
CCTV-13	STA.0+550.85	CCTV-58	STA.4+034.231	CCTV-13	STA.0+974.911
CCTV-14	STA.0+584.984	CCTV-59	STA.4+139.402	CCTV-14	STA.1+049.585
CCTV-15	STA.0+689.984	CCTV-60	STA.4+244.573	CCTV-15	STA.1+065.451
CCTV-16	STA.0+794.984	CCTV-61	STA.4+349.744	CCTV-16	STA.1+083.719
CCTV-17	STA.0+810.85	CCTV-62	STA.4+454.915	CCTV-17	STA.1+099.585
CCTV-18	STA.0+844.984	CCTV-63	STA.4+560.086	CCTV-18	STA.1+207.492
CCTV-19	STA.0+909.982	CCTV-64	STA.4+665.257	CCTV-19	STA.1+315.399
CCTV-20	STA.0+974.981	CCTV-65	STA.4+770.428	CCTV-20	STA.1+423.306
CCTV-21	STA.0+987.661	CCTV-66	STA.4+875.599	CCTV-21	STA.1+531.213
CCTV-22	STA.1+025.024	CCTV-67	STA.4+980.77	CCTV-22	STA.1+675.088
CCTV-23	STA.1+135.442	CCTV-68	STA.5+085.935	CCTV-23	STA.1+685.251
CCTV-24	STA.1+245.859	CCTV-69	STA.5+097.164	CCTV-24	STA.1+709.22
CCTV-25	STA.1+261.725	CCTV-70	STA.5+135.935	CCTV-25	STA.1+725.088
CCTV-26	STA.1+295.859	CCTV-71	STA.5+241.631	CCTV-26	STA.1+831.375
CCTV-27	STA.1+366.175	CCTV-72	STA.5+347.327	CCTV-27	STA.1+937.662
CCTV-28	STA.1+436.491	CCTV-73	STA.5+417.791	CCTV-28	STA.2+043.949
CCTV-29	STA.1+452.357	CCTV-74	STA.5+523.487	CCTV-29	STA.2+150.236
CCTV-30	STA.1+486.491	CCTV-75	STA.5+629.183	CCTV-30	STA.2+158.232
CCTV-31	STA.1+553.351	CCTV-76	STA.5+734.884	CCTV-31	STA.2+191.738
CCTV-32	STA.1+620.211	CCTV-77	STA.5+746.029	CCTV-32	STA.2+200.236
CCTV-33	STA.1+633.256	CCTV-78	STA.5+769.018		
CCTV-34	STA.1+672.463	CCTV-79	STA.5+792.709		
CCTV-35	STA.1+777.339	CCTV-80	STA.5+859.61		
CCTV-36	STA.1+882.215	CCTV-81	STA.5+959.96		
CCTV-37	STA.1+987.091	CCTV-82	STA.5+977.495		
CCTV-38	STA.2+126.925	CCTV-83	STA.6+019.784		
CCTV-39	STA.2+231.801	CCTV-84	STA.6+123.176		
CCTV-40	STA.2+336.677	CCTV-85	STA.6+261.032		
CCTV-41	STA.2+441.553	CCTV-86	STA.6+398.888		
CCTV-42	STA.2+478.566	CCTV-87	STA.6+502.28		
CCTV-43	STA.2+491.723				
CCTV-44	STA.2+561.837				
CCTV-45	STA.2+667.008				

**NOTES**

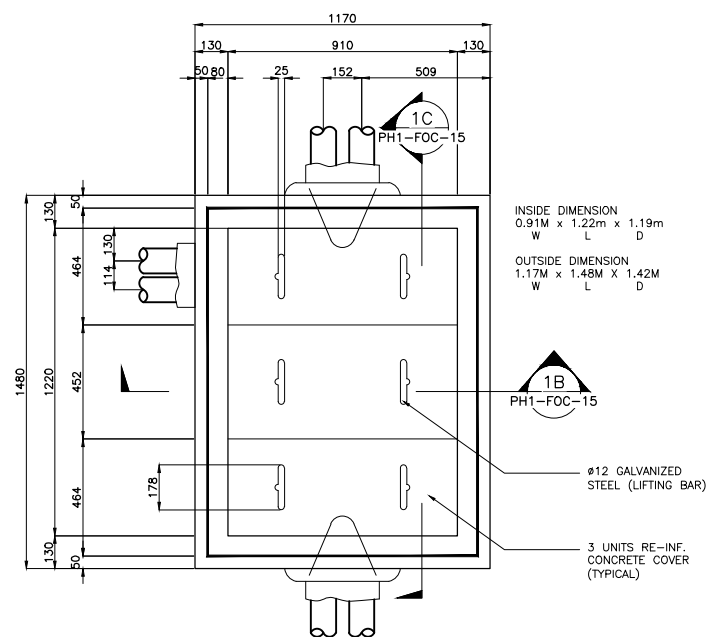
1. FOR GENERAL NOTES  
SEE PH1-FOC-03
2. FOR LEGENDS  
SEE PH1-FOC-03

1 ROAD 1 AND ROAD 2 CCTV & MANHOLE STATIONING NUMBER  
PH1-FOC-14 NOT TO SCALE

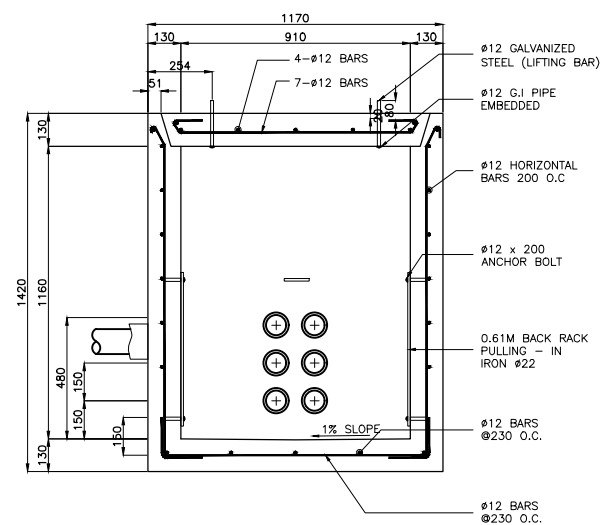
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	<b>GRACE B. AGUILOS</b> <small>ICT ENGINEER</small> DATE:	<b>TEDDY MASANORI</b> <small>PROJECT MANAGER</small> DATE:	 PHILIPPINE JAPAN <small>INITIATIVE FOR CGC INC.</small>	 <small>Board, Commission and          Government Accountability</small>	<small>RECOMMENDING APPROVAL</small> <b>RYAN PAUL S. GALURA</b> <small>CGC, PMD CLARK PROJECTS</small> DATE:	<small>APPROVED BY</small> <b>JOSHUA M. BINGCANG</b> <small>SVP, CONVERSION AND DEVELOPMENT GROUP</small> DATE:	<b>INFRASTRUCTURE DESIGN OF NEW CLARK CITY          ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3)          PHASE 1</b> <small>R1 (STA. 0+000 - STA. 6+600) &amp; R2 (STA. 0+000 - STA. 2+220)</small>		AS SHOWN	DRAFT FINAL
		ROAD 1 AND ROAD 2 CCTV & MANHOLE STATIONING NUMBER						DRAWING NO.	SHEET NO.		
								PH1-FOC-14	14 OF 16		

**NOTES**

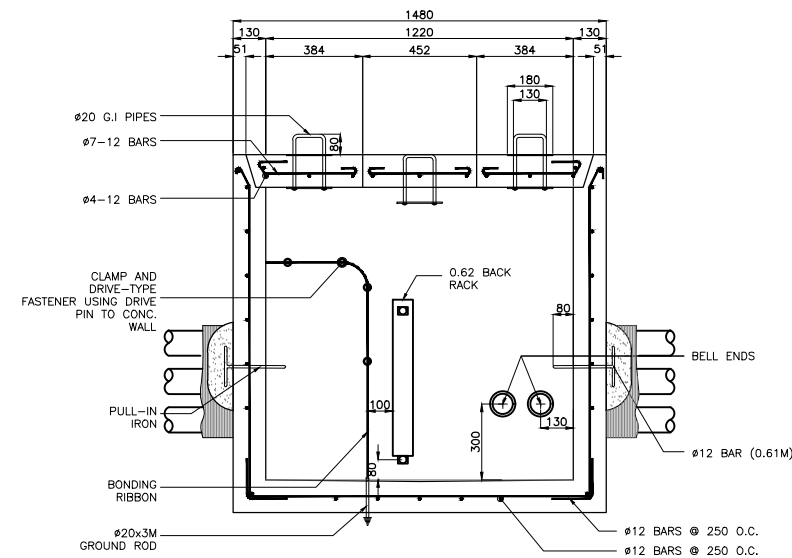
- FOR GENERAL NOTES SEE PH1-FOC-03
- FOR LEGENDS SEE PH1-FOC-03



**1A PLAN**  
PH1-FOC-15 NOT TO SCALE



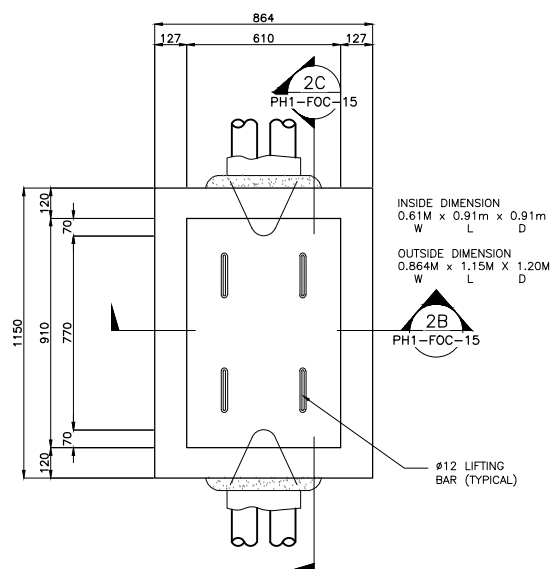
**1B SECTION**  
PH1-FOC-15 NOT TO SCALE



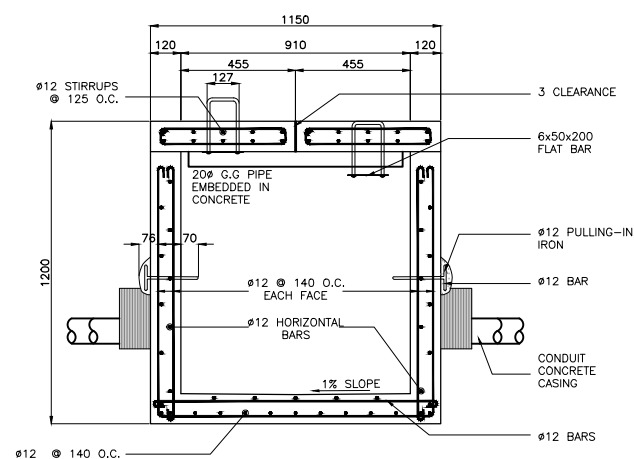
**1C SECTION**  
PH1-FOC-15 NOT TO SCALE

**1 SERVICE BOX DETAILS**  
PH1-FOC-15 NOT TO SCALE

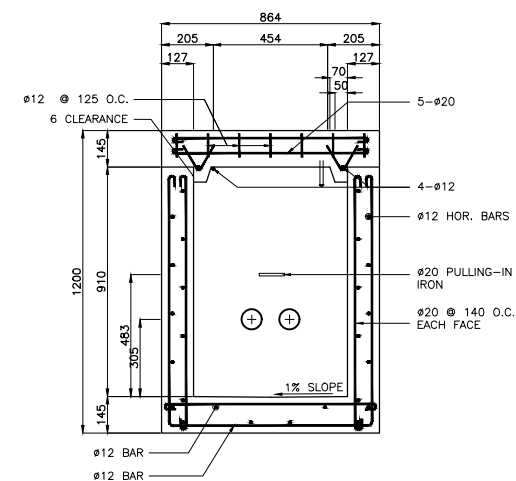
NOTES: ALL COVER HAND HOLES AND SERVICE BOXES SHALL BE WATERTIGHT.



**2A PLAN**  
PH1-FOC-15 NOT TO SCALE



**2B SECTION**  
PH1-FOC-15 NOT TO SCALE



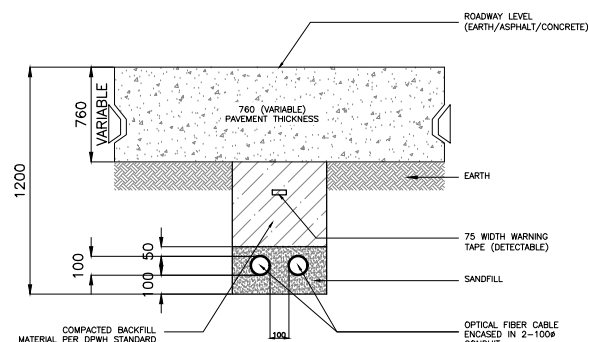
**2C SECTION**  
PH1-FOC-15 NOT TO SCALE

**2 HAND HOLE / PULL BOX DETAILS**  
PH1-FOC-15 NOT TO SCALE

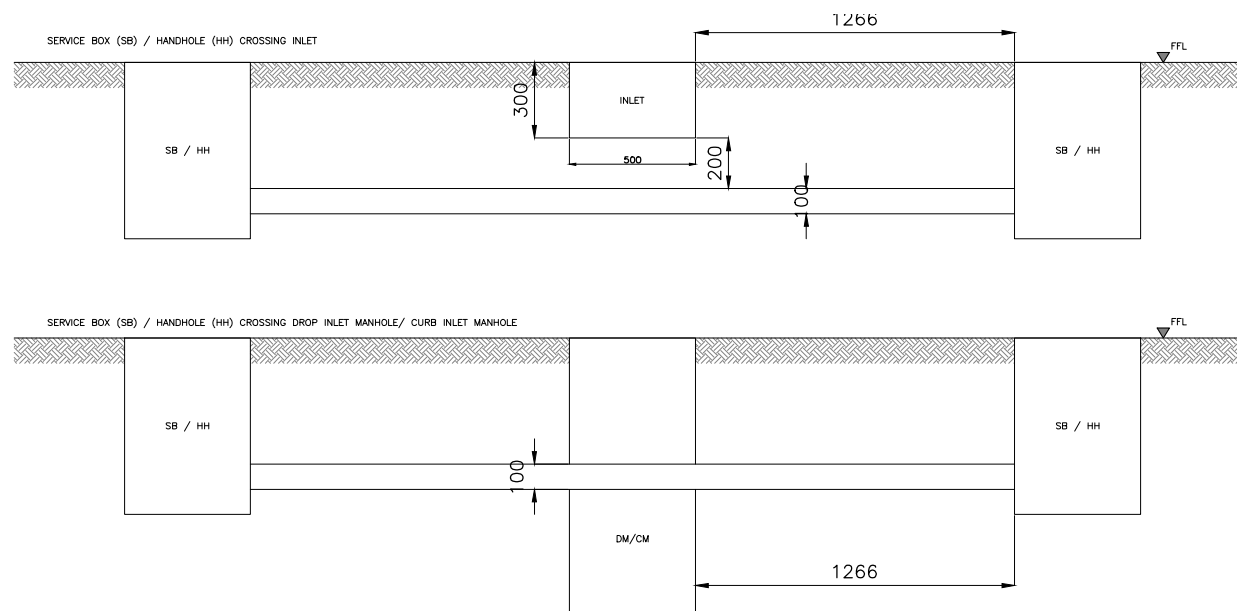
CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES		PROJECT TITLE		SHEET CONTENT		SCALE	DRAWING STATUS
<b>NIPPON KOEI</b> NIPPON KOEI CO.,LTD.		<b>GRACE B. AGUILOS</b> ICT ENGINEER	<b>TEDDY MASANORI</b> PROJECT MANAGER	<b>PJIC</b> PHILIPPINE JAPAN INITIATIVE FOR CGC INC.		<b>BCDA</b> INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+200)		SERVICE BOX, HANDHOLE AND PULL BOX DETAILS		AS SHOWN	DRAFT FINAL
<b>PKII</b> PHILKOEI INTERNATIONAL, INC. CONSULTANTS PLANNERS ENGINEERS		CHECKED BY <b>CHARLES P. PANTE</b> CO-TEAM LEADER	DATE:	DATE:	DATE:	DATE:	DATE:	DRAWING NO.	SHEET NO.	PH1-FOC-15	15 OF 16

**NOTES**

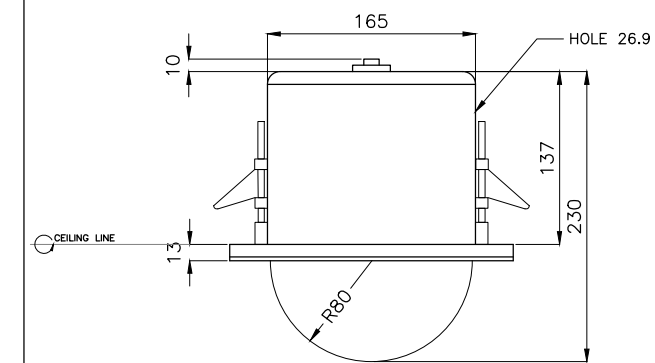
1. FOR GENERAL NOTES SEE PH1-FOC-03
2. FOR LEGENDS SEE PH1-FOC-03



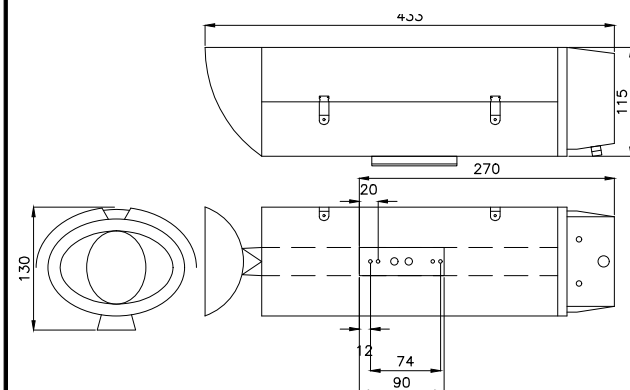
**1** TYPICAL FIBER OPTIC CABLE INSTALLATION DETAIL  
PH1-FOC-16 NOT TO SCALE



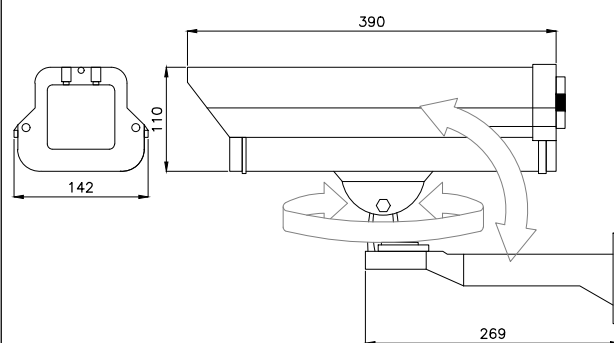
**2** SERVICE BOX/HANDHOLE LAYOUT  
PH1-FOC-16 NOT TO SCALE



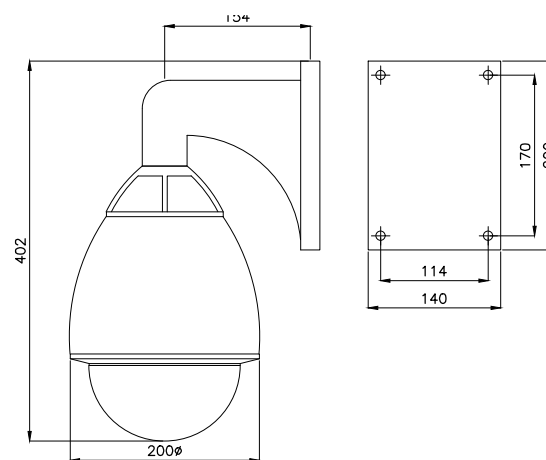
**3** SUSPENDED CEILING CCTV DETAIL  
PH1-FOC-16 NOT TO SCALE



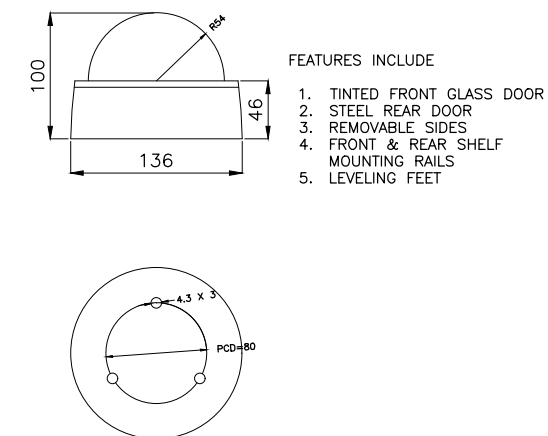
**4** OUTDOOR CCTV DETAIL  
PH1-FOC-16 NOT TO SCALE



**5** OUTDOOR CCTV DETAIL  
PH1-FOC-16 NOT TO SCALE



**6** PENDANT TYPE WALL MOUNTED CCTV DETAIL  
PH1-FOC-16 NOT TO SCALE



**7** DOMED TYPE CCTV DETAIL  
PH1-FOC-16 NOT TO SCALE

- FEATURES INCLUDE
1. TINTED FRONT GLASS DOOR
  2. STEEL REAR DOOR
  3. REMOVABLE SIDES
  4. FRONT & REAR SHELF
  5. MOUNTING RAILS
  6. LEVELING FEET

CONSULTANTS		DESIGNED BY	SUBMITTED BY	REPUBLIC OF THE PHILIPPINES	BCDA	PROJECT TITLE	SHEET CONTENT	SCALE	DRAWING STATUS
 NIPPON KOEI CO.,LTD.	 PHILKOEI INTERNATIONAL, INC.	GRACE B. AGUILOS ICT ENGINEER	TEDDY MASANORI PROJECT MANAGER	 PHILIPPINE JAPAN INITIATIVE FOR CGC INC.	 RECOMMENDING APPROVAL	INFRASTRUCTURE DESIGN OF NEW CLARK CITY ROAD WORKS (C.2) AND DRAINAGE SYSTEM (C.3) PHASE 1 R1 (STA. 0+000 - STA. 6+600) & R2 (STA. 0+000 - STA. 2+220)	SERVICE BOX LAYOUT AND CCTV TYPE	AS SHOWN	DRAFT FINAL
		CHECKED BY CHARLES P. PANTE CO-TEAM LEADER	DATE:					DATE:	APPROVED BY RYAN PAUL S. GALURA OIC, PMD CLARK PROJECTS
		DATE:	DATE:		DATE:			PH1-FOC-16	16 OF 16