



**LAO PEOPLE'S DEMOCRATIC REPUBLIC**  
PEACE INDEPENDENCE DEMOCRACY UNITY PROSPERITY  
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

**DEPARTMENT OF ROADS**

**NR 13 NORTH IMPROVEMENT AND MAINTENANCE PROJECT  
(SIKEUTH JUNCTION – PHONHONG)  
CONCEPTUAL DESIGN**

**CONTRACT 1**

Km 0+000 – 19+400, Length of 19.4 Km  
(SIKEUTH JUNCTION – BAN SONGPEUAY)

**VOLUME IV**

**DRAWINGS**

**PART A : ROAD, DRAINAGE AND APPURTENANCE  
(FINAL)**

PREPARED BY:



**ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ**

LAO TRANSPORT ENGINEERING CONSULTANT

Tel: (+856-21) 313510, 313761, 312840, Fax: 314811

E-mail: [ltec@etlao.com](mailto:ltec@etlao.com), [www.ltec.com.la](http://www.ltec.com.la)

**VIENTIANE  
April, 2018**

**LTEC CODE: SD-262-17**

LIST OF DRAWINGS

No.	DRAWING TITLE	DRAWING. No.
1	GENERAL DRAWINGS	
1.1	LOCATION MAP	RLM-001
1.2	GENERAL LAYOUT	RGM-002
1.3	ABBREVIATIONS AND SYMBOLS	RSA-003
1.4	ABBREVIATIONS AND SYMBOLS	RSA-004
2	TYPICAL CROSS SECTIONS	
2.1	TYPICAL CROSS SECTION	RTC-001
3	PLAN AND PROFILES	
3.1	PLAN AND PROFILE Km 0+000 – 0+500	RPP-001
3.2	PLAN AND PROFILE Km 0+500 – 1+000	RPP-002
3.3	PLAN AND PROFILE Km 1+000 – 1+500	RPP-003
3.4	PLAN AND PROFILE Km 1+500 – 2+000	RPP-004
3.5	PLAN AND PROFILE Km 2+000 – 2+500	RPP-005
3.6	PLAN AND PROFILE Km 2+500 – 3+000	RPP-006
3.7	PLAN AND PROFILE Km 3+000 – 3+500	RPP-007
3.8	PLAN AND PROFILE Km 3+500 – 4+000	RPP-008
3.9	PLAN AND PROFILE Km 4+000 – 4+500	RPP-009
3.10	PLAN AND PROFILE Km 4+500 – 5+000	RPP-010
3.11	PLAN AND PROFILE Km 5+000 – 5+500	RPP-011
3.12	PLAN AND PROFILE Km 5+500 – 6+000	RPP-012
3.13	PLAN AND PROFILE Km 6+000 – 6+500	RPP-013
3.14	PLAN AND PROFILE Km 6+500 – 7+000	RPP-014
3.15	PLAN AND PROFILE Km 7+000 – 7+500	RPP-015
3.16	PLAN AND PROFILE Km 7+500 – 8+000	RPP-016

No.	DRAWING TITLE	DRAWING. No.
3.17	PLAN AND PROFILE Km 8+000 – 8+500	RPP-017
3.18	PLAN AND PROFILE Km 8+500 – 9+000	RPP-018
3.19	PLAN AND PROFILE Km 9+000 – 9+500	RPP-019
3.20	PLAN AND PROFILE Km 9+500 – 10+000	RPP-020
3.21	PLAN AND PROFILE Km 10+000 – 10+500	RPP-021
3.22	PLAN AND PROFILE Km 10+500 – 11+000	RPP-022
3.23	PLAN AND PROFILE Km 11+000 – 11+500	RPP-023
3.24	PLAN AND PROFILE Km 11+500 – 12+000	RPP-024
3.25	PLAN AND PROFILE Km 12+000 – 12+500	RPP-025
3.26	PLAN AND PROFILE Km 12+500 – 13+000	RPP-026
3.27	PLAN AND PROFILE Km 13+000 – 13+500	RPP-027
3.28	PLAN AND PROFILE Km 13+500 – 14+000	RPP-028
3.29	PLAN AND PROFILE Km 14+000 – 14+500	RPP-029
3.30	PLAN AND PROFILE Km 14+500 – 15+000	RPP-030
3.31	PLAN AND PROFILE Km 15+000 – 15+500	RPP-031
3.32	PLAN AND PROFILE Km 15+500 – 16+000	RPP-032
3.33	PLAN AND PROFILE Km 16+000 – 16+500	RPP-033
3.34	PLAN AND PROFILE Km 16+500 – 17+000	RPP-034
3.35	PLAN AND PROFILE Km 17+000 – 17+500	RPP-035
3.36	PLAN AND PROFILE Km 17+500 – 18+000	RPP-036
3.37	PLAN AND PROFILE Km 18+000 – 18+500	RPP-037
3.38	PLAN AND PROFILE Km 18+500 – 19+000	RPP-038
3.39	PLAN AND PROFILE Km 19+000 – 19+400	RPP-039
4	SETTING OUT PLANS	
4.1	SETTING OUT PLAN KM 0+000 – KM 0+200	SCN-001
4.2	SETTING OUT PLAN U-TURN KM 2+700 – KM 3+300	SCN-002

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY						DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
	LIST OF DRAWINGS						CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. LDW-001
							APPROVED	Mr.Vandy VORASACK	SCALE: NOT TO SCALE

LIST OF DRAWINGS

No.	DRAWING TITLE	DRAWING. No.
4.3	SETTING OUT PLAN U-TURN KM 8+000 – KM 8+500	SCN-003
4.4	SETTING OUT PLAN U-TURN KM 11+800 – KM 12+400	SCN-004
4.5	SETTING OUT PLAN U-TURN KM 16+075 – KM 16+675	SCN-005
4.6	SETTING OUT PLAN JUNCTION J3 KM 6+600	SCN-006
5	LIST OF COORDINATES	
5.1	LIST OF COORDINATE Km 0+000 – Km 8+825	LDN-001
5.2	LIST OF COORDINATE Km 8+850 – Km 17+675	LDN-002
5.3	LIST OF COORDINATE Km 17+700 – Km 19+400	LDN-003
6	DRAINAGE PLANS	
6.1	DRAINAGE PLAN Km 0+000 – 1+000	DPL-001
6.2	DRAINAGE PLAN Km 1+000 – 2+000	DPL-002
6.3	DRAINAGE PLAN Km 2+000 – 3+000	DPL-003
6.4	DRAINAGE PLAN Km 3+000 – 4+000	DPL-004
6.5	DRAINAGE PLAN Km 4+000 – 5+000	DPL-005
6.6	DRAINAGE PLAN Km 5+000 – 6+000	DPL-006
6.7	DRAINAGE PLAN Km 6+000 – 7+000	DPL-007
6.8	DRAINAGE PLAN Km 7+000 – 8+000	DPL-008
6.9	DRAINAGE PLAN Km 8+000 – 9+000	DPL-009
6.10	DRAINAGE PLAN Km 9+000 – 10+000	DPL-010
6.11	DRAINAGE PLAN Km 10+000 – 11+000	DPL-011
6.12	DRAINAGE PLAN Km 11+000 – 12+000	DPL-012
6.13	DRAINAGE PLAN Km 12+000 – 13+000	DPL-013
6.14	DRAINAGE PLAN Km 13+000 – 14+000	DPL-014
6.15	DRAINAGE PLAN Km 14+000 – 15+000	DPL-015
6.16	DRAINAGE PLAN Km 15+000 – 16+000	DPL-016

No.	DRAWING TITLE	DRAWING. No.
6.17	DRAINAGE PLAN Km 16+000 – 17+000	DPL-017
6.18	DRAINAGE PLAN Km 17+000 – 18+000	DPL-018
6.19	DRAINAGE PLAN Km 18+000 – 19+000	DPL-019
6.20	DRAINAGE PLAN Km 19+000 – 19+400	DPL-020
7	LIST OF SIDE DRAINS STRUCTURES	
7.1	LIST OF SIDE DRAINS STRUCTURES KM 0+000 – KM 5+000	LDD-001
7.2	LIST OF SIDE DRAINS STRUCTURES Km 4+624 – Km 8+325	LDD-002
7.3	LIST OF SIDE DRAINS STRUCTURES Km 8+000 – Km 12+790	LDD-003
7.4	LIST OF SIDE DRAINS STRUCTURES Km 12+314 – Km 18+825	LDD-004
7.5	LIST OF SIDE DRAINS STRUCTURES Km 17+259 – Km 19+400	LDD-005
8	LIST OF CULVERTS	
8.1	LIST OF CULVERTS Km 0+682 – Km 17+992	LDD-006
8.2	LIST OF CULVERTS Km 18+353 – Km 19+026	LDD-007
9	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS	
9.1	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 0+000 – Km 1+500	TCP-001
9.2	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 1+500 – Km 3+000	TCP-002
9.3	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 3+000 – Km 4+500	TCP-003
9.4	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 4+500 – Km 6+000	TCP-004
9.5	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 6+000 – Km 7+500	TCP-005
9.6	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 7+500 – Km 9+000	TCP-006
9.7	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 9+000 – Km 10+500	TCP-007
9.8	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 10+500 – Km 12+000	TCP-008
9.9	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 12+000 – Km 13+500	TCP-009
9.10	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 13+500 – Km 15+000	TCP-010

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY					DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
	LIST OF DRAWINGS					CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. LDW-002
						APPROVED	Mr.Vandy VORASACK	SCALE: NOT TO SCALE

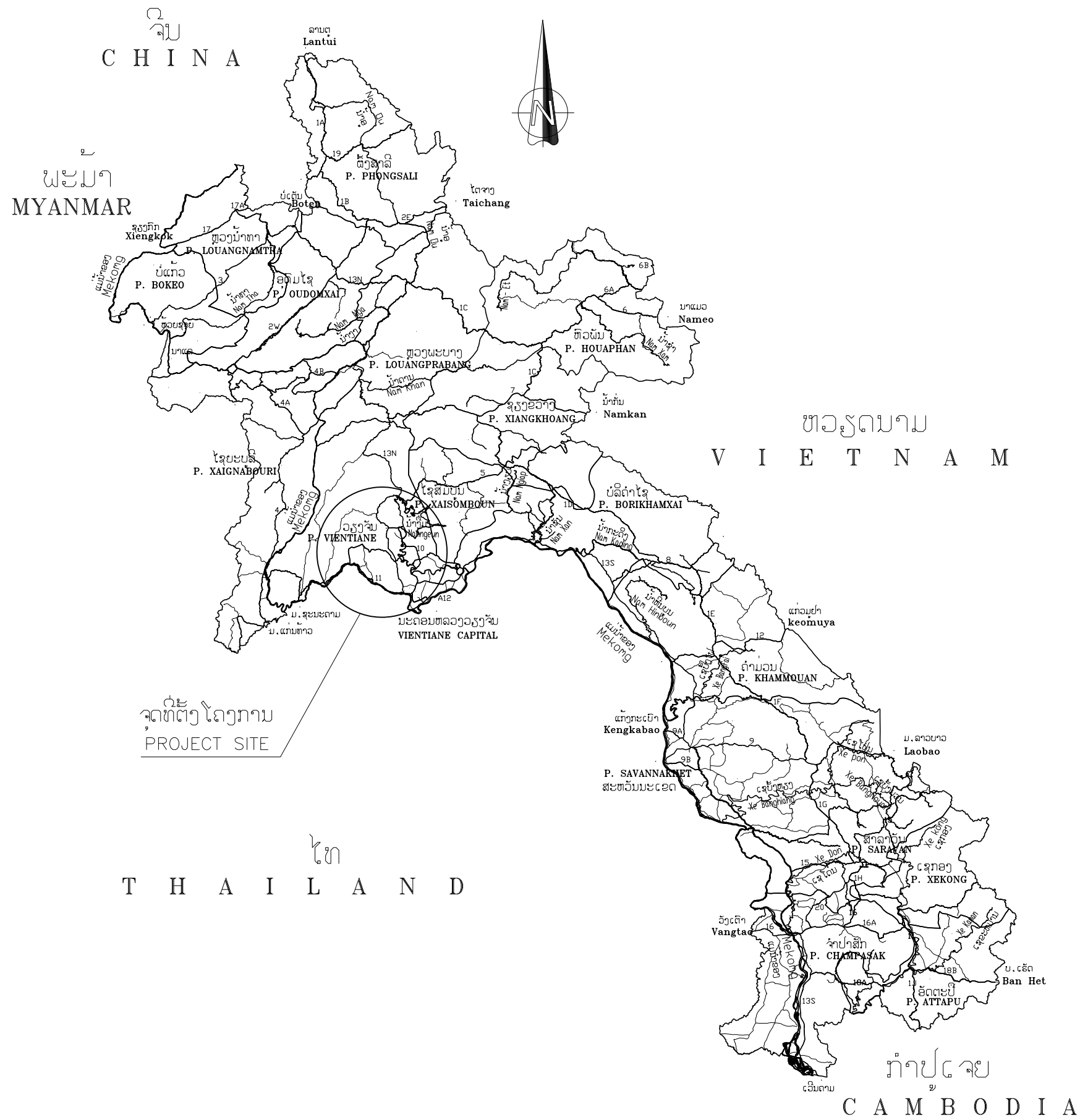
LIST OF DRAWINGS

No.	DRAWING TITLE	DRAWING. No.
9.11	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 15+000 – Km 16+500	TCP-011
9.12	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 16+500 – Km 18+000	TCP-012
9.13	PLAN FOR TRAFFIC CONTROL DEVICES AND MISCELLANEOUS Km 18+000 – Km 19+400	TCP-013
10	TRAFFIC SIGNAL PLANS	
10.1	TRAFFIC SIGNAL PLAN	TSP-001
11	ELECTRIC PLANS	
11.1	ELECTRIC PLAN Km 0+000 – Km 1+000	EPL-001
11.2	ELECTRIC PLAN Km 1+000 – Km 2+000	EPL-002
11.3	ELECTRIC PLAN Km 2+000 – Km 3+000	EPL-003
11.4	ELECTRIC PLAN Km 3+000 – Km 4+000	EPL-004
11.5	ELECTRIC PLAN Km 4+000 – Km 5+000	EPL-005
11.6	ELECTRIC PLAN Km 5+000 – Km 6+000	EPL-006
11.7	ELECTRIC PLAN Km 6+000 – Km 7+000	EPL-007
11.8	ELECTRIC PLAN Km 7+000 – Km 8+000	EPL-008
11.9	ELECTRIC PLAN Km 8+000 – Km 9+000	EPL-009
11.10	ELECTRIC PLAN Km 9+000 – Km 10+000	EPL-010
11.11	ELECTRIC PLAN Km 10+000 – Km 11+000	EPL-011
11.12	ELECTRIC PLAN Km 11+000 – Km 12+000	EPL-012
11.13	ELECTRIC PLAN Km 12+000 – Km 13+000	EPL-013
11.14	ELECTRIC PLAN Km 13+000 – Km 14+000	EPL-014
11.15	ELECTRIC PLAN Km 14+000 – Km 15+000	EPL-015
11.16	ELECTRIC PLAN Km 15+000 – Km 16+000	EPL-016
11.17	ELECTRIC PLAN Km 16+000 – Km 17+000	EPL-017
11.18	ELECTRIC PLAN Km 17+000 – Km 18+000	EPL-018
11.19	ELECTRIC PLAN Km 18+000 – Km 19+000	EPL-019

No.	DRAWING TITLE	DRAWING. No.
11.20	ELECTRIC PLAN Km 19+000 – Km 19+400	EPL-020

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY					DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
	LIST OF DRAWINGS					CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. LDW-003
						APPROVED	Mr.Vandy VORASACK	SCALE: NOT TO SCALE

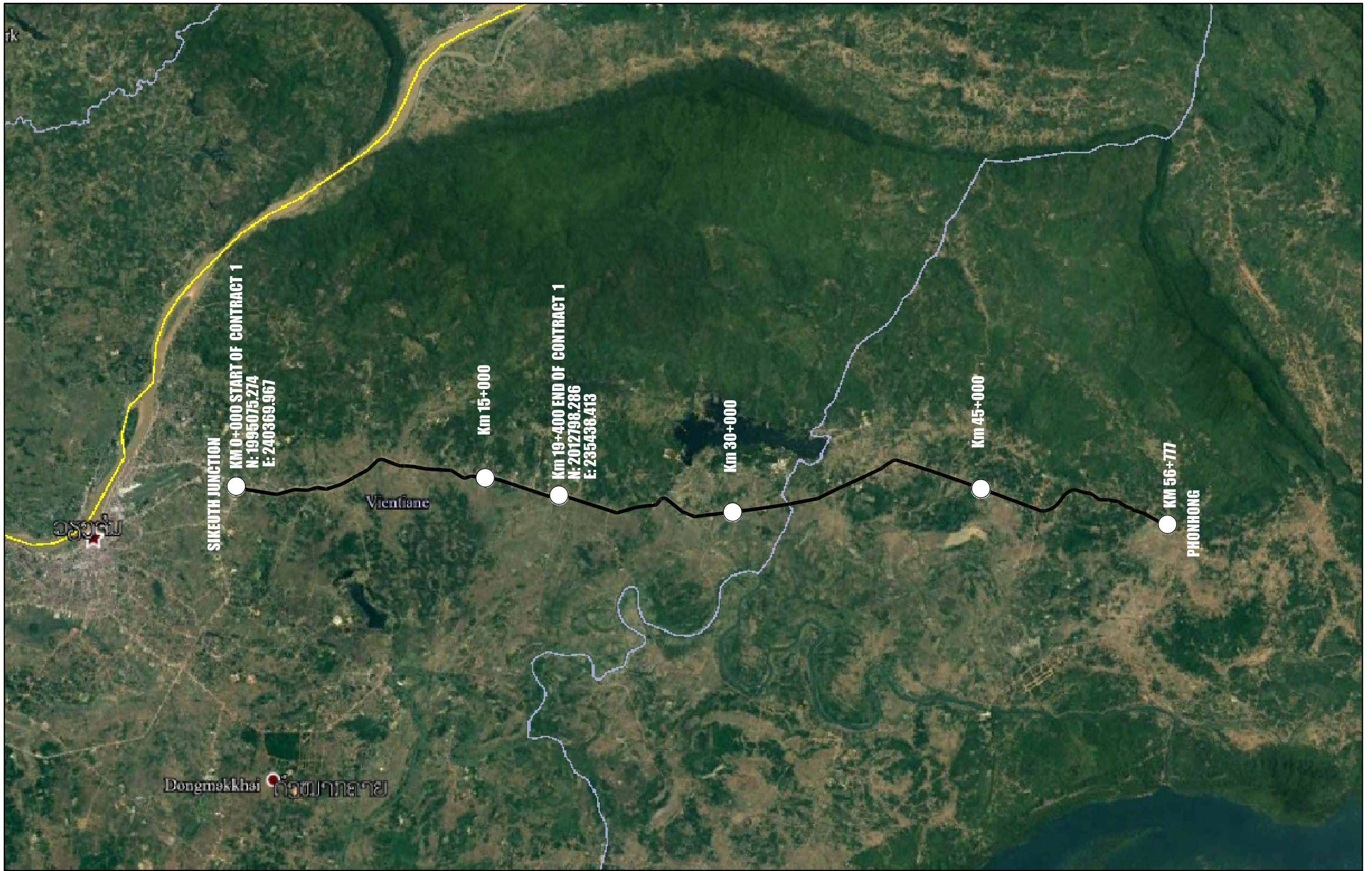
# GENERAL DRAWINGS



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
 LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKETH JUNCTION – BAN SONGPEUAY  
 LOCATION MAP

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. RLM-001
			APPROVED	Mr.Vandy VORASACK		SCALE: NOT TO SCALE



<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY						DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
	GENERAL LAYOUT						CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. RGM-002
	Km 0+000-56+777						APPROVED	Mr.Vandy VORASACK	SCALE: 1: 200000

# LEGEND

## UTILITIES AND DRAINAGE

- EXISTING DITCH
- NEW DITCH
- DITCH BOTTOM
- DRAINAGE CHANNEL, CONCRETE
- MANHOLE ON DRAINAGE CHANNEL
- GUTTER AND INLET DRAIN
- SURFACE RUNOFF
- DRAINAGE PIPE NETWORK
- WATER PIPE
- WATER PIPE WITH FIRE HYDRANT AND STOP VALVE
- SEWER PIPE
- ELECTRIC CABLE UNDERGROUND
- ELECTRIC LINE OVERHEAD
- HIGH VOLTAGE
- TELEPHONE CABLE UNDERGROUND
- TELEPHONE LINE OVERHEAD
- MANHOLE FOR WATER PIPE/CABLE
- EXISTING PIPE CULVERT
- NEW PIPE CULVERT
- EXISTING BOX CULVERT
- NEW BOX CULVERT
- CONTROL CABINET TELEPHONE
- CONTROL CABINET ELECTRIC
- MANHOLE FOR TEL OR ELECTRIC
- POWER TRANSFORMER
- ELECTRICITY PYLON
- EXISTING ELECTRIC/TEL POLE
- NEW ELECTRIC/TEL POLE

- LAMP POST
- ELECTRIC POLE TO BE REMOVED
- BILLBOARD, SINGLE FACE
- BILLBOARD, DOUBLE FACE
- TELEPHONE BOX

## ROAD AND TRAFFIC

- CENTERLINE OF ROAD
- EXISTING ROAD
- ROAD PROPOSED
- EXISTING SHOULDER EDGE OR CURB
- CURB, PLANNED
- DROPPED CURB AND INLET TYPE (PROPOSED)
- SLOPE
- NEW BRIDGE
- OLD BRIDGE
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- PROPOSED GUIDE POSTS
- CONCRETE BARRIER
- TRAFFIC SIGNAL
- ROAD SIGN
- PAVEMENT MARKING
- BOTTOM OF BANK

## ON PLAN OR MAP

- POND
- HUT
- BUILDING, HOUSE, ONE STOREY WOOD
- HOUSE, TWO STOREY BRICK AND WOOD
- BUILDING, HOUSE, TWO STOREY CONCRETE / BRICK
- PORCH ( VERANDA )
- HOUSE TO BE REMOVED
- PADDY FIELD
- EXISTING TREE
- PROPOSED TREE
- HEDGE
- WOODEN FENCE
- BARBED WIRE/WIRE MESH FENCE
- WALL ( CONCRETE BLOCK )
- RAILING
- RETAINING WALL
- FENCE TO BE REMOVED
- NORTH ARROW
- COORDINATES
- STATION POINT
- BENCH MARK
- GPS POINT
- BORE HOLE (BH)
- FLOW DIRECTION
- TO THADEUA
- EXISTING UNDER GROUND CABLE

- SECTION A-A
- REINFORCEMENT BARS IN NEAR OR TOP FACE.
- REINFORCEMENT BARS IN FAR OR BOTTOM FACE.
- 21 : NUMBER OF BARS WITH IN MARKED AREA.
- Ø 25 : BAR DIAMETER IN mm.
- ©200 : DISTANCE OF BARS CENTER TO BARS CENTER.
- A4 : BENDING TYPE AND REFERENCE NUMBER.

- CONTOUR (MAJOR)
- CONTOUR (MINOR)
- DETOUR
- DIFFERENT LENGTH OF BAR WITH THE SAME NUMBER
- DIAMETER
- PERCENT
- SPACING
- CENTER LINE
- SHRUBS
- BAMBOO
- DENSE FOREST
- LIGHT FOREST
- IP INTERSECTION POINT
- FOREST

## PROFILE

- EXISTING LEVEL / TERRAIN PROFILE
- GRADE LEVEL PROPOSED
- PIPE CULVERT
- BOX CULVERT
- ELEVATION
- (HIGH) WATER LEVEL

## GENERAL REMARKS

WHEN THE SYMBOL FOR EXISTING AND PLANNED OBJECTS IS SIMILAR:

- THICKNESS LINES (0.18-0.3mm) =EXISTING
- THICKNESS LINES (0.4-0.7mm) =PLANNED



NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ABBREVIATION AND SYMBOLS

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. RSA-003
			APPROVED	Mr.Vandy VORASACK		SCALE: NOT TO SCALE

## ABBREVIATION

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	i	GRADIENT	V	DESIGN SPEED
$m^2$	SQUARE METER	EP	END POINT	R.L	ROAD LEVEL
$m^3$	CUBIC METER	SP	START POINT	RVC	RADIUS OF VERTICAL CURVE
mm	MILLIMETER	IP	POINT OF INTERSECTION FOR HORIZONTAL ALIGNMENT	Se	SUPERELEVATION
$mm^2$	SQUARE MILLIMETER	HA	HORIZONTAL ALIGMENT	X(N)	NORTHING COORDINATE IN METER
MPa	MEGAPASCAL	R	RADIUS OF HORIZONTAL CIRCULAR CURVE	Y(E)	EASTING COORDINATE IN METER
Kg	KILOGRAM	T	TANGENT LENGTH OF CIRCULAR CURVE	Z (LEV)	VERTICAL COORDINATE IN METER (OR LEVEL)
KM	KILOMETER	E	EXTERNAL DISTANCE		
kN	KILONEWTON	Lc	LENGTH OF CURVE		
m	METER	BC	BEGINING OF CURVE		
Cm	CENTIMETER	EC	END OF CURVE		
L	LENGTH	PKT	CONNECTION POINT		
No.	NUMBER	PSC	PRESTRESS STEEL CONCRETE		
BH	BORE HOLE	BVCS	BEGINNING OF VERTICAL CURVE STATION		
BM	BENCH MARK	BVCE	BEGINNING OF VERTICAL CURVE ELEVATION		
DWG	DRAWING	PVCI	POINT OF VERTICAL CURVE INTERSECTION		
ELEV.	ELEVATION	EVCS	END OF VERTICAL CURVE STATION		
HC	HIGH OF CUTTING	EVCE	END OF VERTICAL CURVE ELEVATION		
HF	HIGH OF FILLING	Pw	EXTRA WIDENING IN HORIZONTAL CURVE		
H.W.L	HIGH WATER LEVEL	Lvc	LENGTH OF VERTICAL CREST CURVE		
L.W.L	LOW WATER LEVEL	Lvs	LENGTH OF VERTICAL SAGCURVE		
REIN.	REINFORCEMENT				



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY  
ABBREVIATION AND SYMBOLS

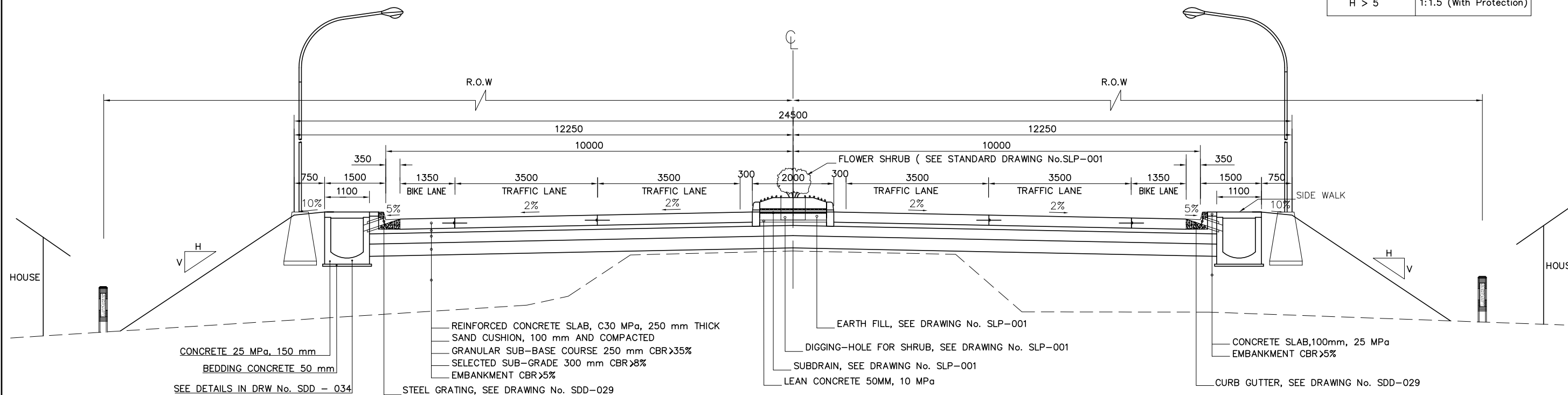
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. RSA-004
			APPROVED	Mr.Vandy VORASACK		SCALE: NOT TO SCALE

# TYPICAL CROSS SECTIONS

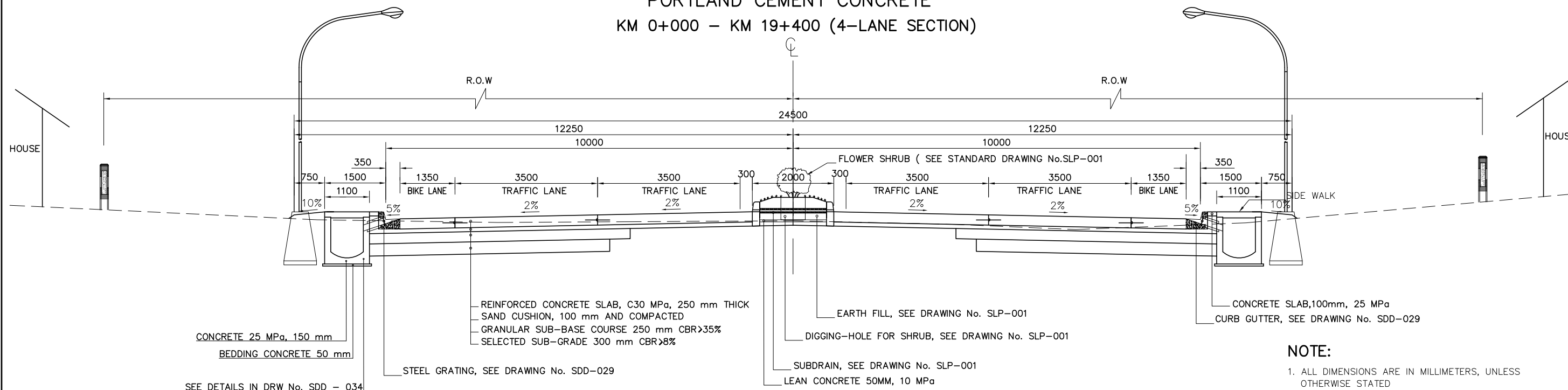
PORTLAND CEMENT CONCRETE  
 KM 0+000 – KM 19+400 (4-LANE SECTION)  
 RAISE GRADE LEVEL SECTION

Fill Slope

FILL HIGH (M)	FILL SLOPE V:H
H < 2.0	1:3
H = 2-5	1:2
H > 5	1:1.5 (With Protection)



PORTLAND CEMENT CONCRETE  
 KM 0+000 – KM 19+400 (4-LANE SECTION)

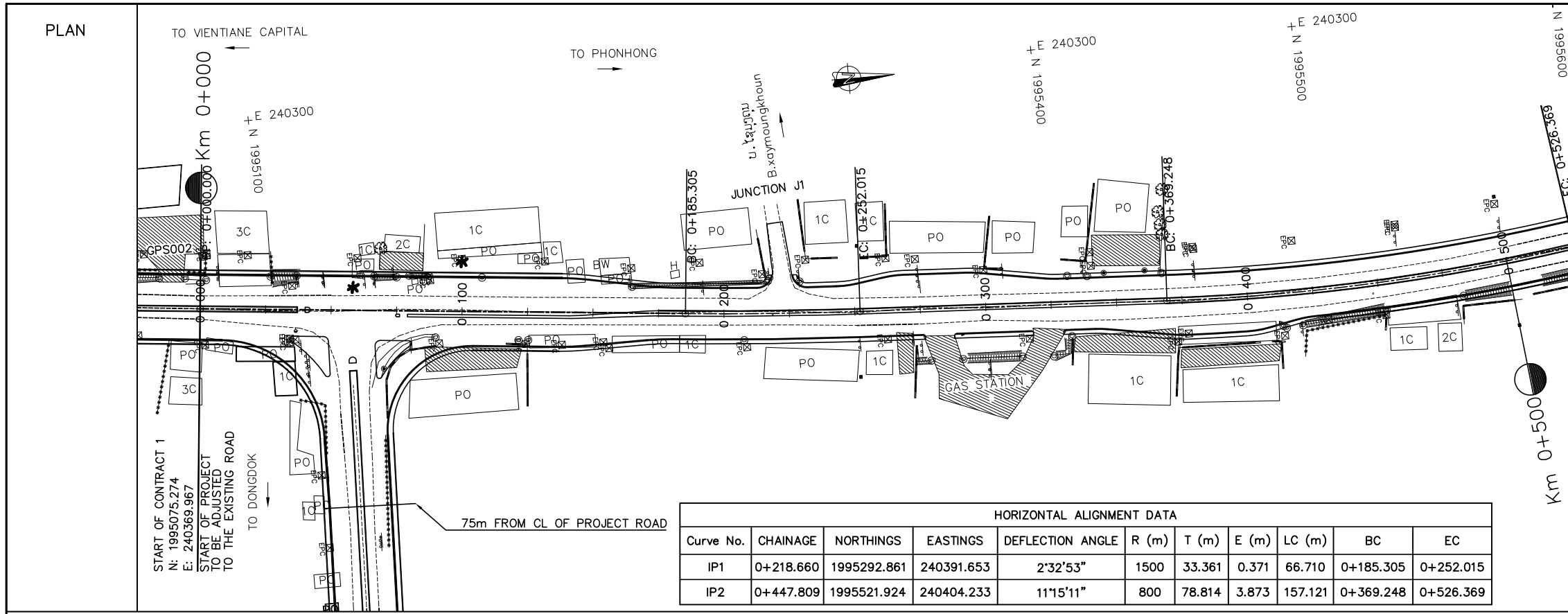


NOTE:

- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE STATED
- WHEN ERECTION OF RIGHT OF WAY MONUMENT THE WIDTH OF RIGHT OF WAY SHALL BE AS DIRECTED BY DEPARTMENT OF ROAD MINISTRY OF PUBLIC WORKS AND TRANSPORT
- FOR THE SECTION OF RAISED MEDIAN IS INSTALLED, AT WHICH CURVE HAS SUPER-ELEVATION PVC PIPE  $\phi 100$  SHALL BE PROVIDED ACROSS THE MEDIAN BY 10m SPACING. SEE STANDARD DRAWING No.SDR-014;SDR-017

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ          LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY  TYPICAL CROSS-SECTIONS	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018	
						CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. RTC-001	
						APPROVED	Mr.Vandy VORASACK	SCALE: 1:100	

# PLAN AND PROFILES

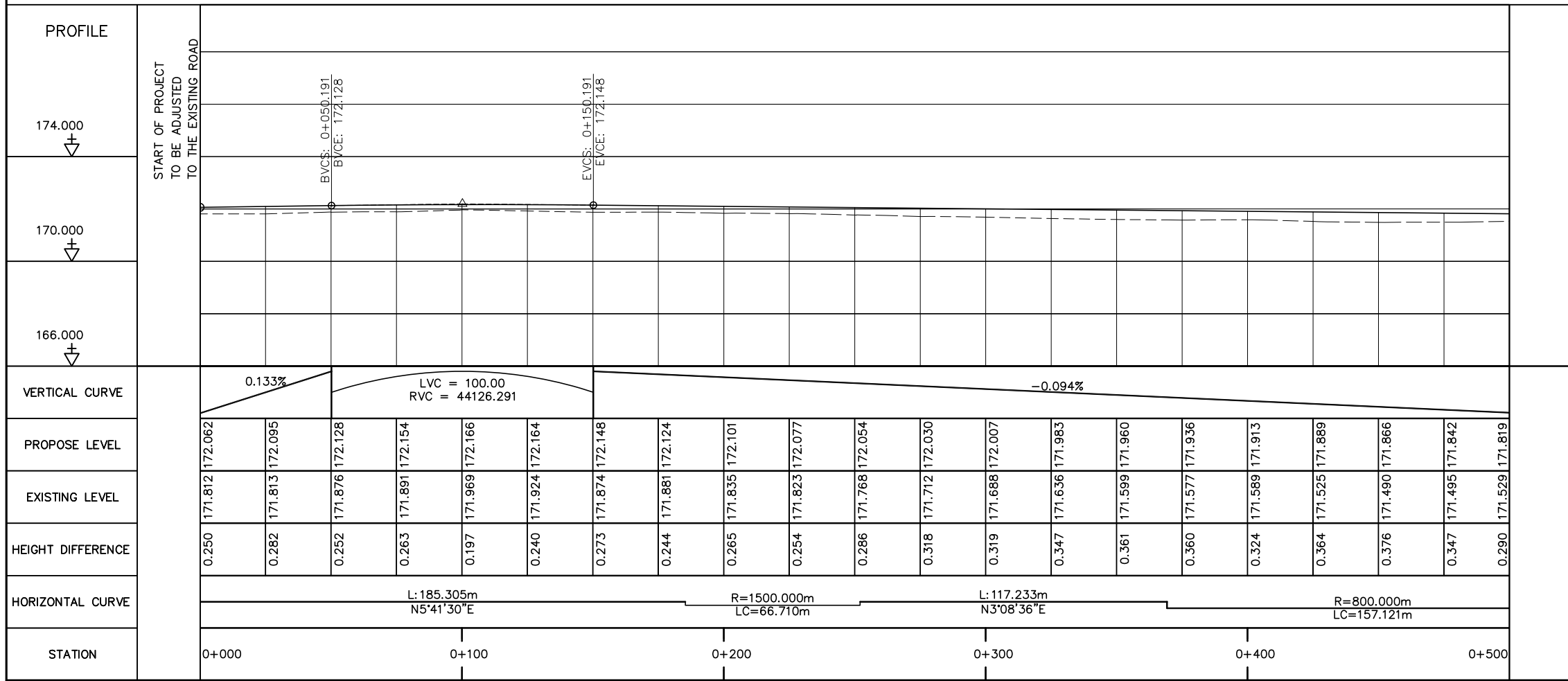


COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
GPS001	1994846.033	240356.107	171.710
GPS002	1995078.178	240350.044	171.863

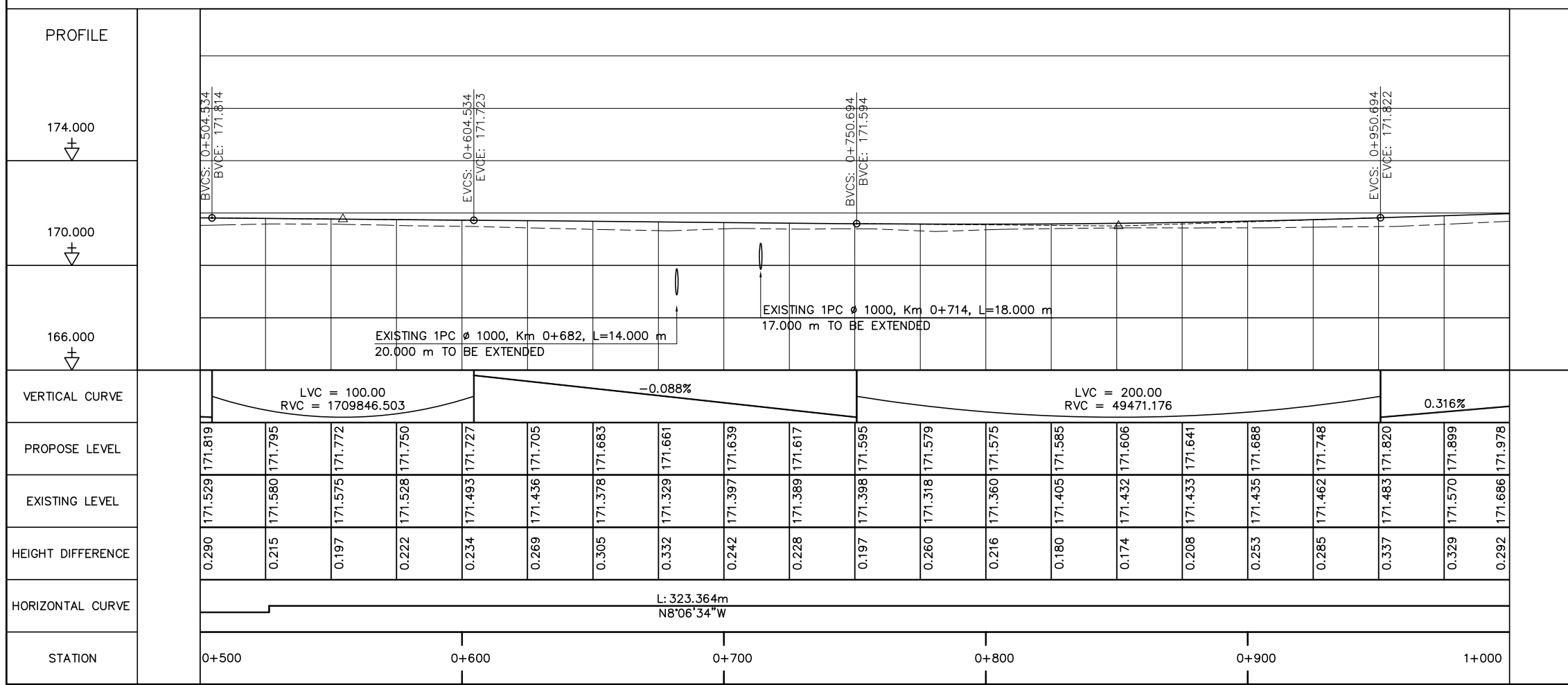
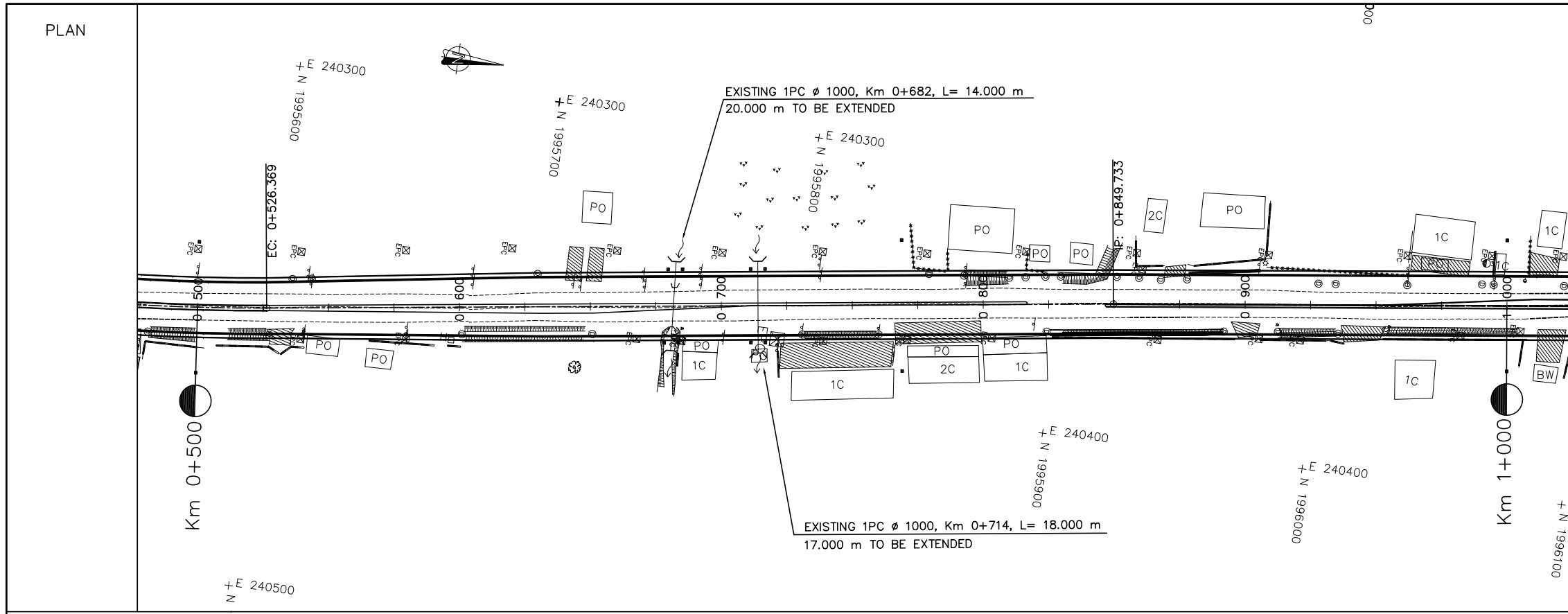
HORIZONTAL ALIGNMENT DATA

Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP1	0+218.660	1995292.861	240391.653	2°32'53"	1500	33.361	0.371	66.710	0+185.305	0+252.015
IP2	0+447.809	1995521.924	240404.233	11°15'11"	800	78.814	3.873	157.121	0+369.248	0+526.369



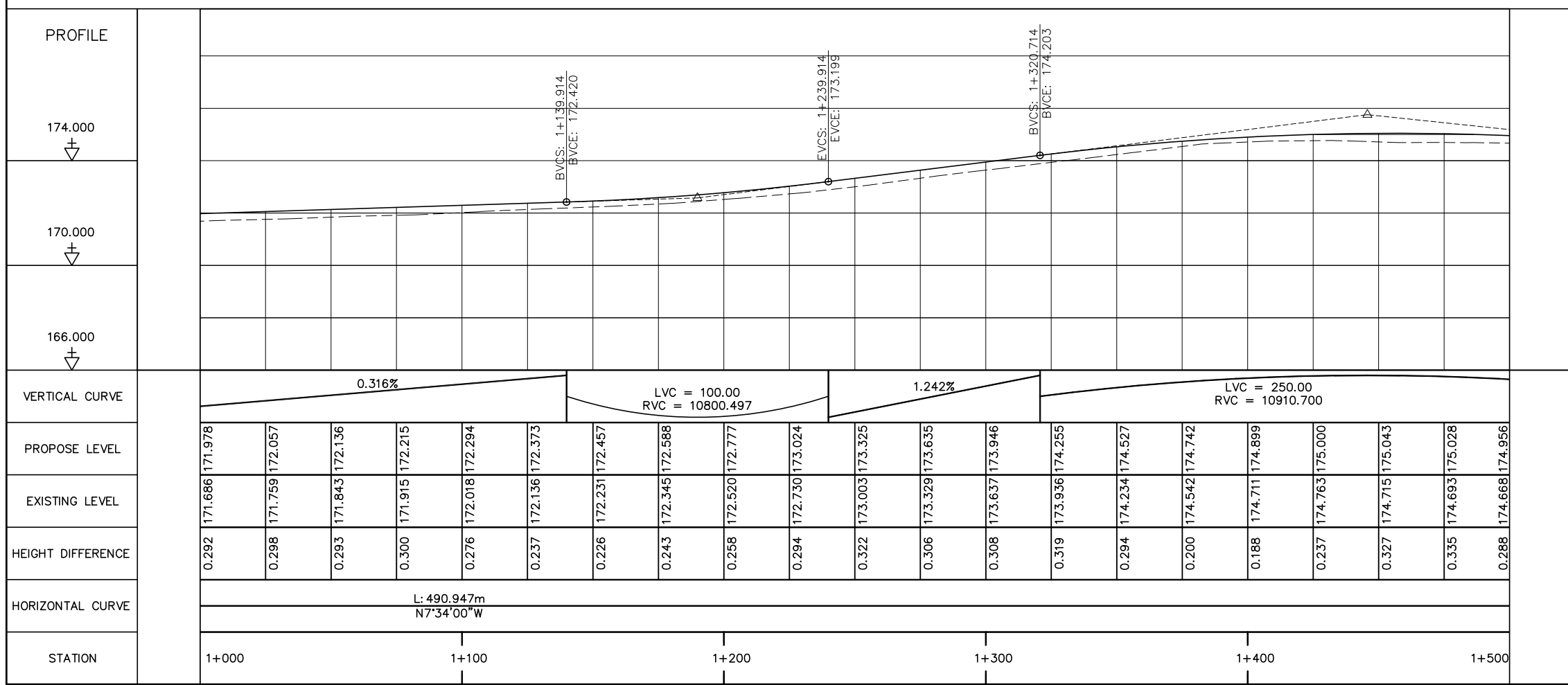
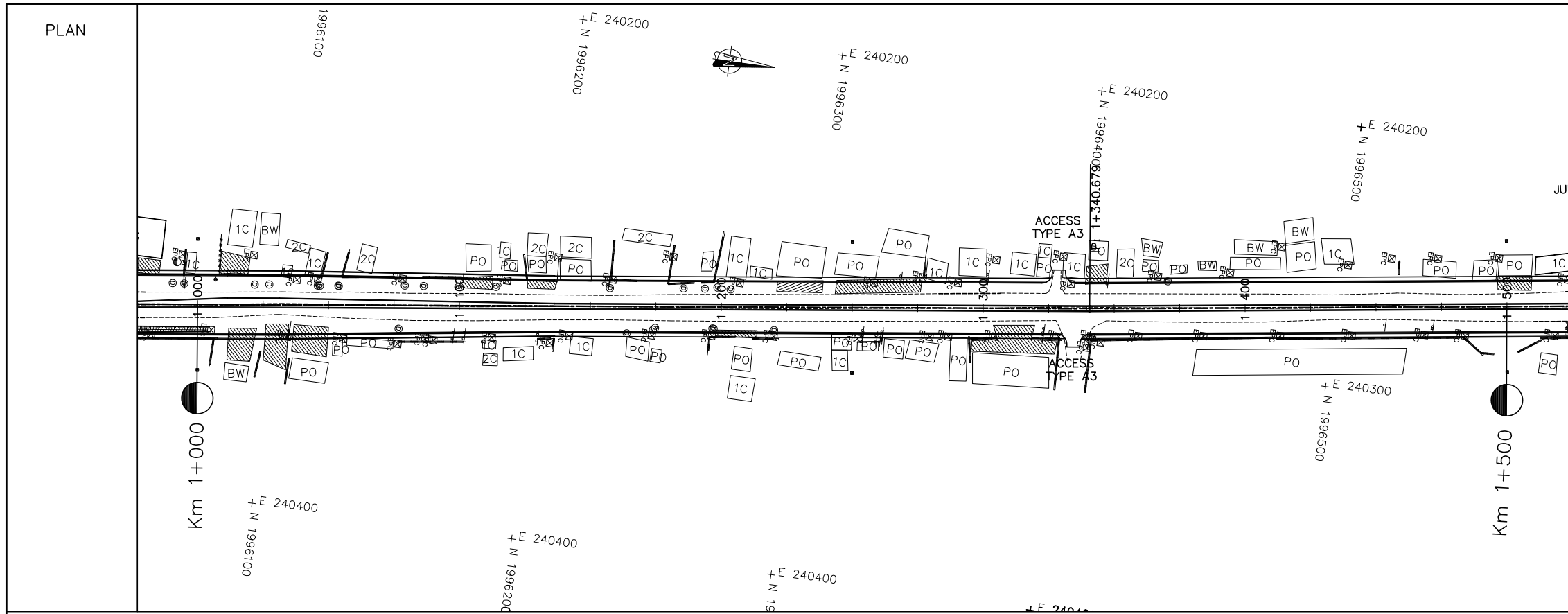
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<b>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</b>		REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<b>PLAN AND PROFILE Km 0+000 - 0+500</b>						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-001
							APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p>		REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE Km 0+500 - 1+000</p>						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-002
							APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



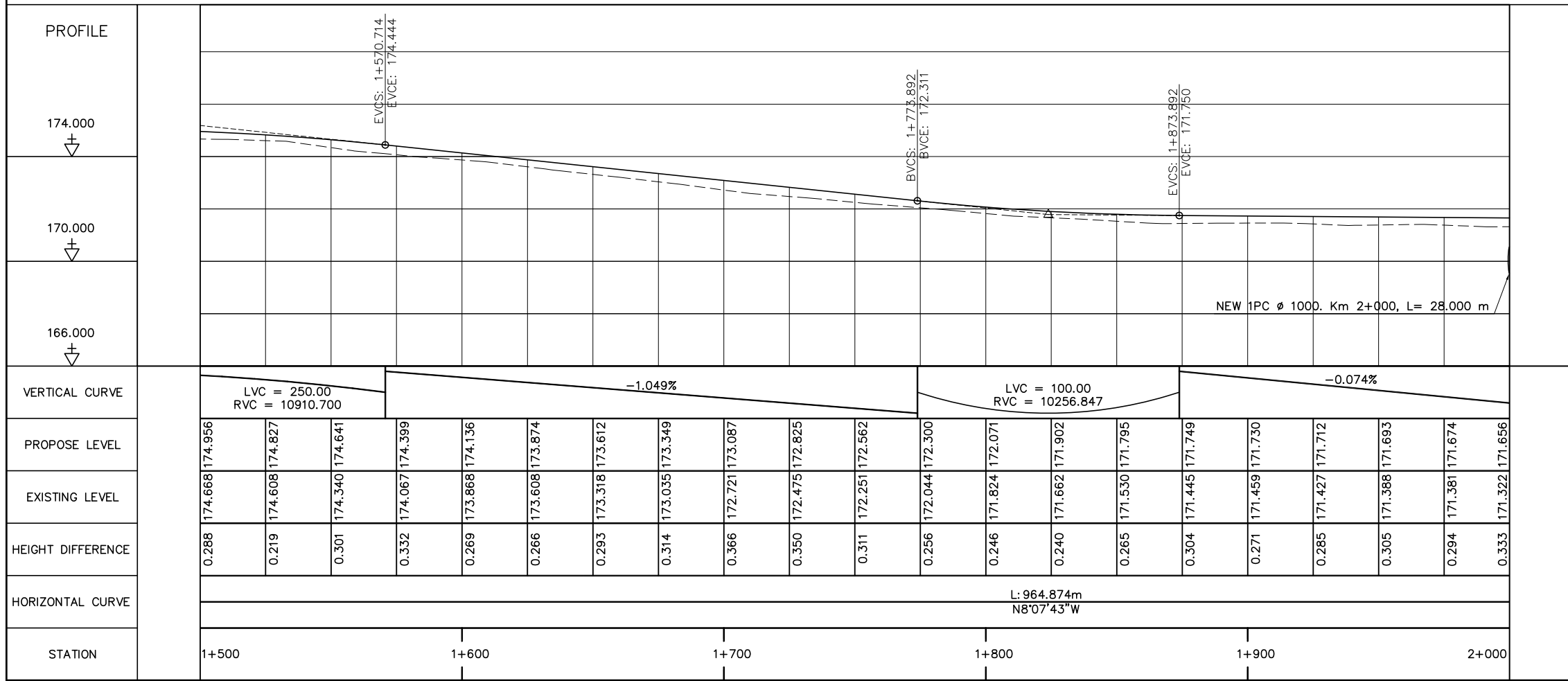
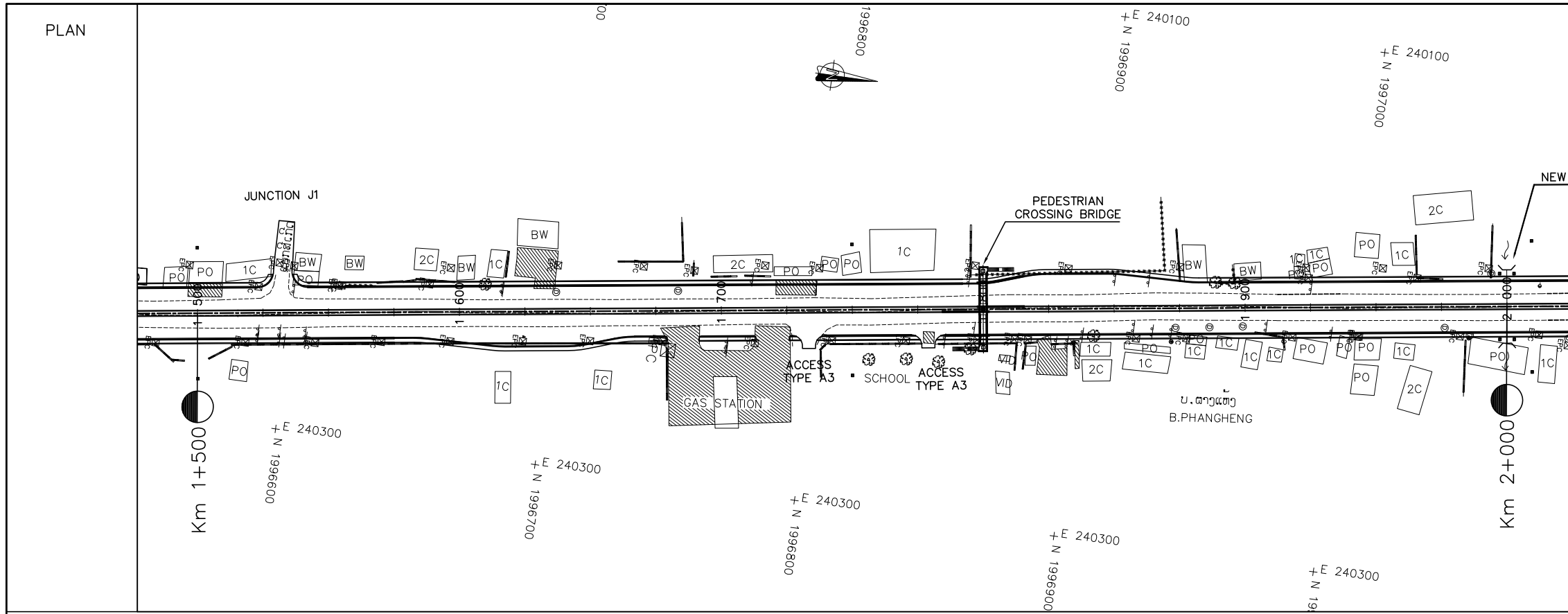
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 1+000 - 1+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-003
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



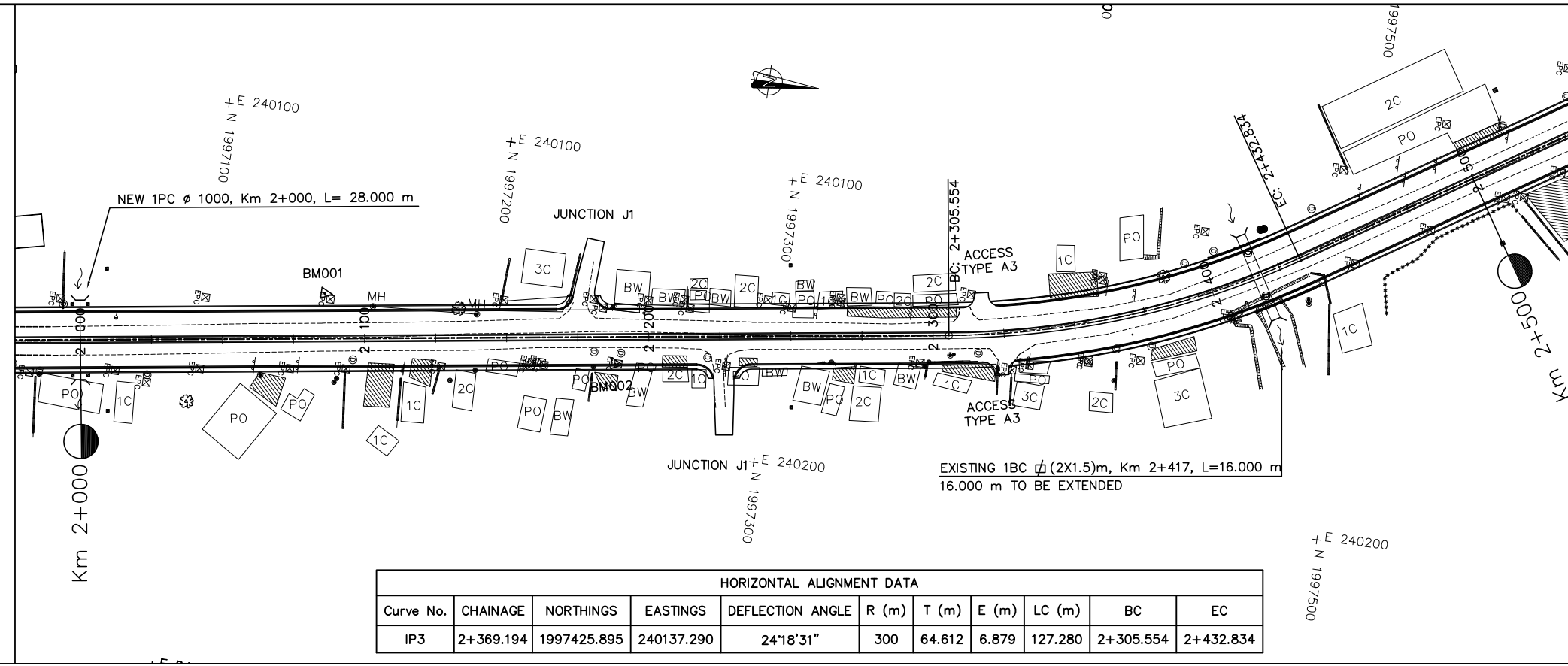
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 1+500 - 2+000

REV.	DATE	DESCRIPTION	APPROVED

NAME	SIGNATURE	LTEC CODE:
DESIGNED Mr. Souksavanh SYPHAKHAM		SD-262-17
CHECKED Mr. Khamphone SORPHABMIXAY		DATE: April, 2018
APPROVED Mr. Vandy VORASACK		DRW No. RPP-004
		SCALE: H=1:2000 V=1:200

PLAN

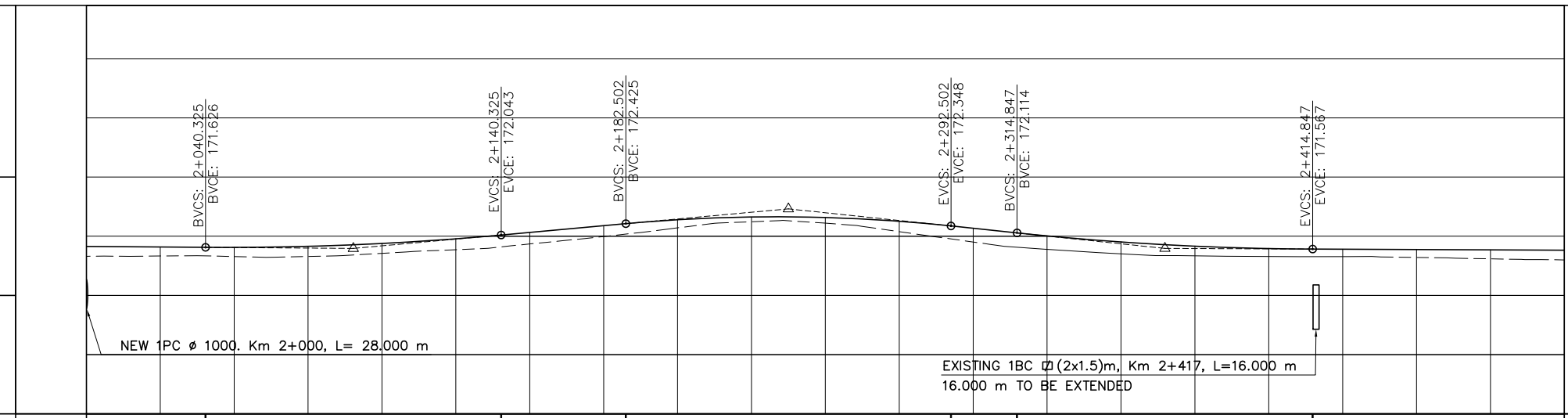


HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP3	2+369.194	1997425.895	240137.290	24°18'31"	300	64.612	6.879	127.280	2+305.554	2+432.834

COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM001	1997142.477	240161.754	170.986
BM002	1997246.943	240172.402	172.724

PROFILE



VERTICAL CURVE	-0.074%		LVC = 100.00 RVC = 10179.729		0.908%		LVC = 110.00 RVC = 5621.632		-1.049%		LVC = 100.00 RVC = 9950.726		-0.044%									
PROPOSE LEVEL	171.656	171.637	171.623	171.659	171.756	171.915	172.130	172.357	172.557	172.651	172.633	172.504	172.269	172.012	171.807	171.665	171.585	171.563	171.552	171.541	171.530	
EXISTING LEVEL	171.322	171.332	171.314	171.317	171.421	171.546	171.739	171.991	172.283	172.490	172.441	172.155	171.806	171.564	171.412	171.342	171.321	171.318	171.284	171.237	171.199	171.199
HEIGHT DIFFERENCE	0.333	0.305	0.309	0.342	0.335	0.369	0.391	0.366	0.274	0.161	0.192	0.350	0.463	0.448	0.395	0.323	0.264	0.245	0.268	0.304	0.331	
HORIZONTAL CURVE	R=300.000m LC=127.280m																					
STATION	2+000		2+100				2+200				2+300				2+400				2+500			

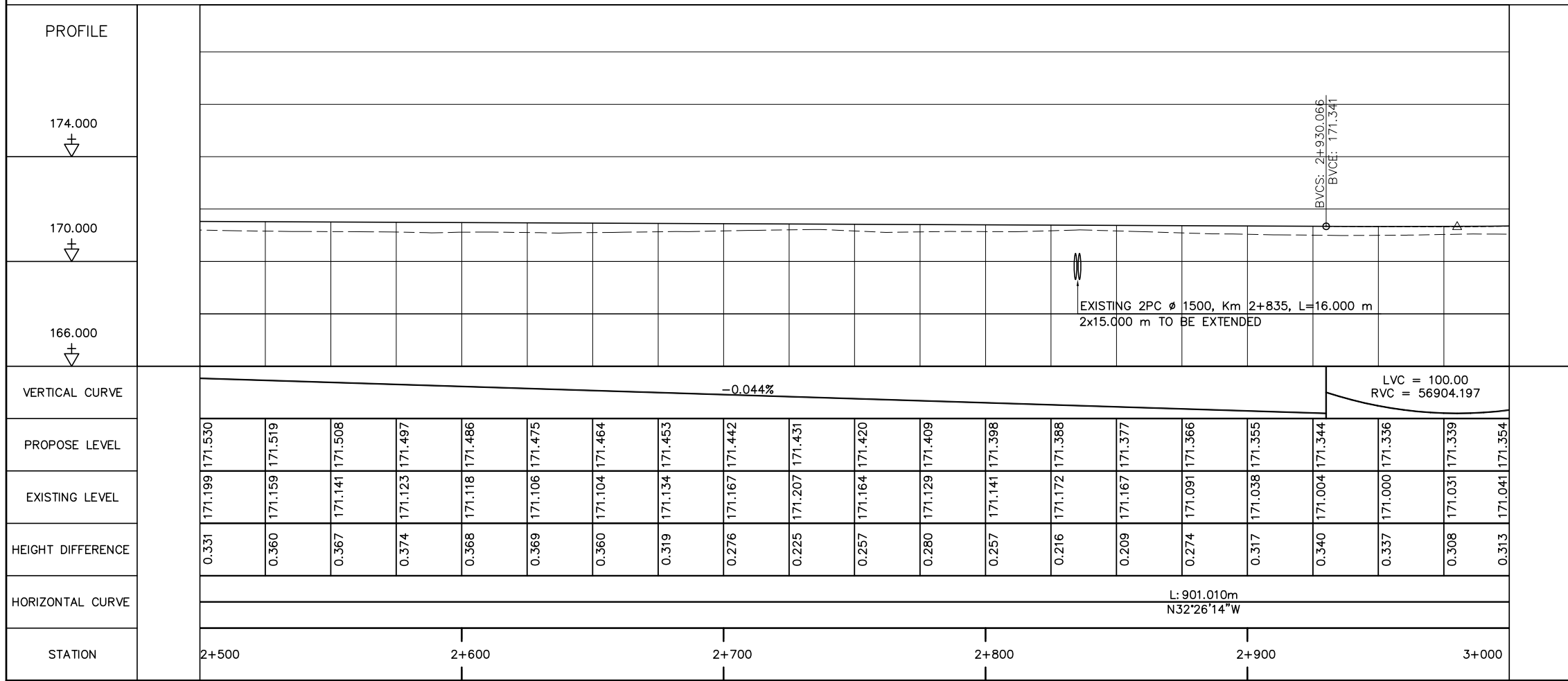
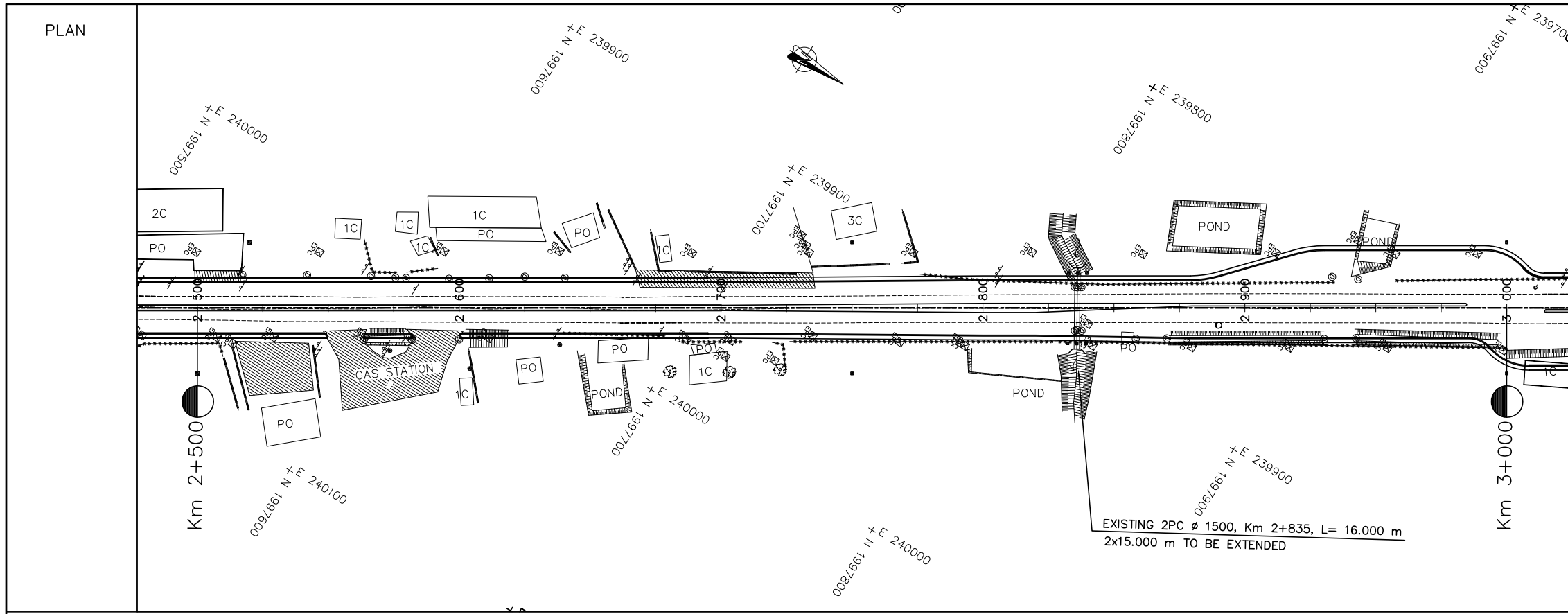
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

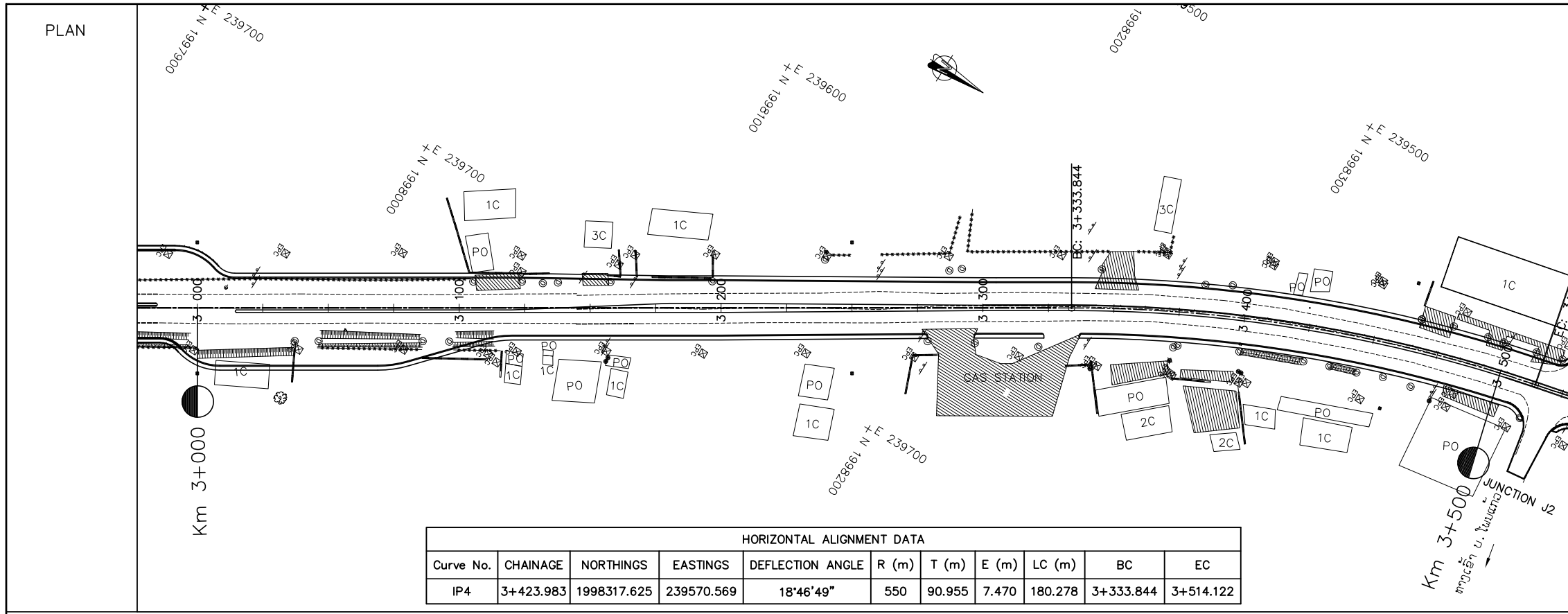
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 2+000 - 2+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-005
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200

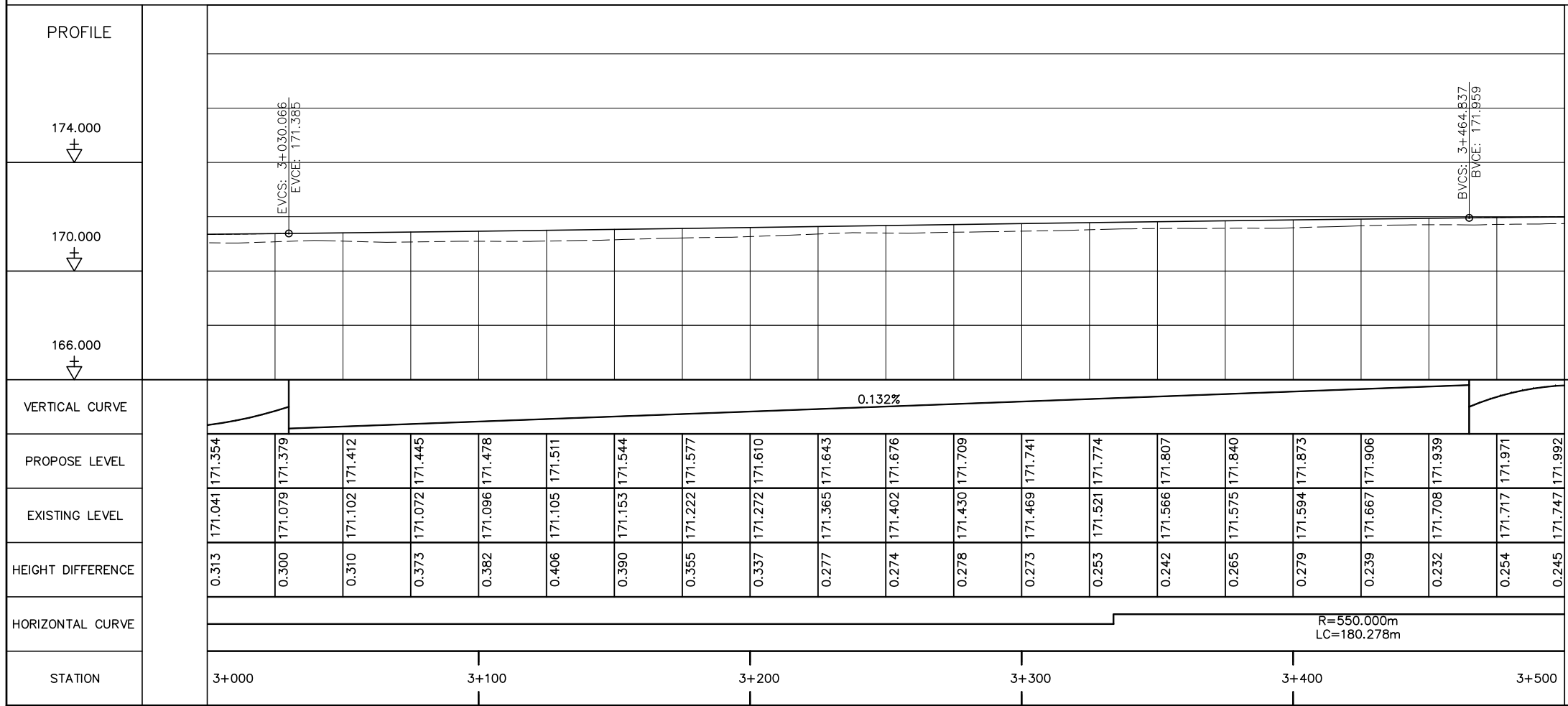


- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p>		REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE Km 2+500 - 3+000</p>						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-006
							APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200

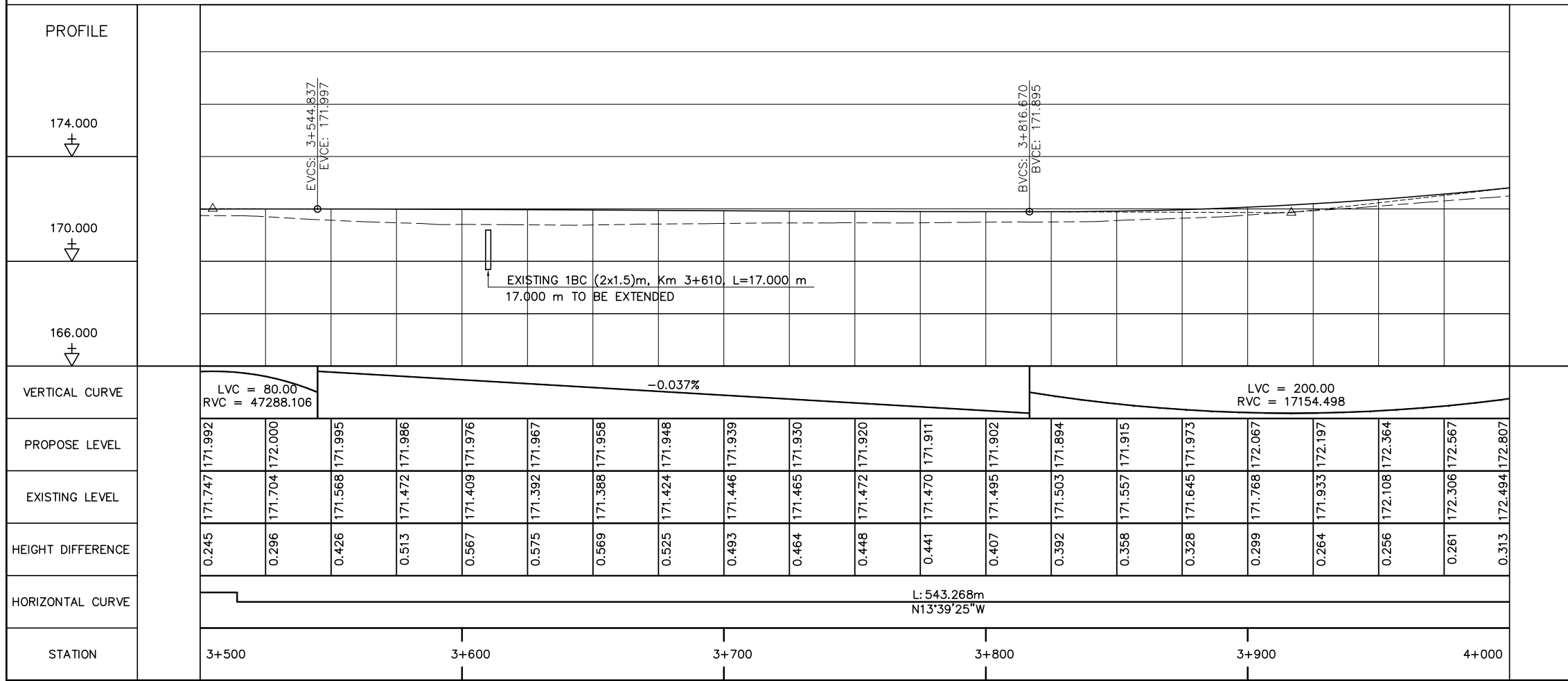
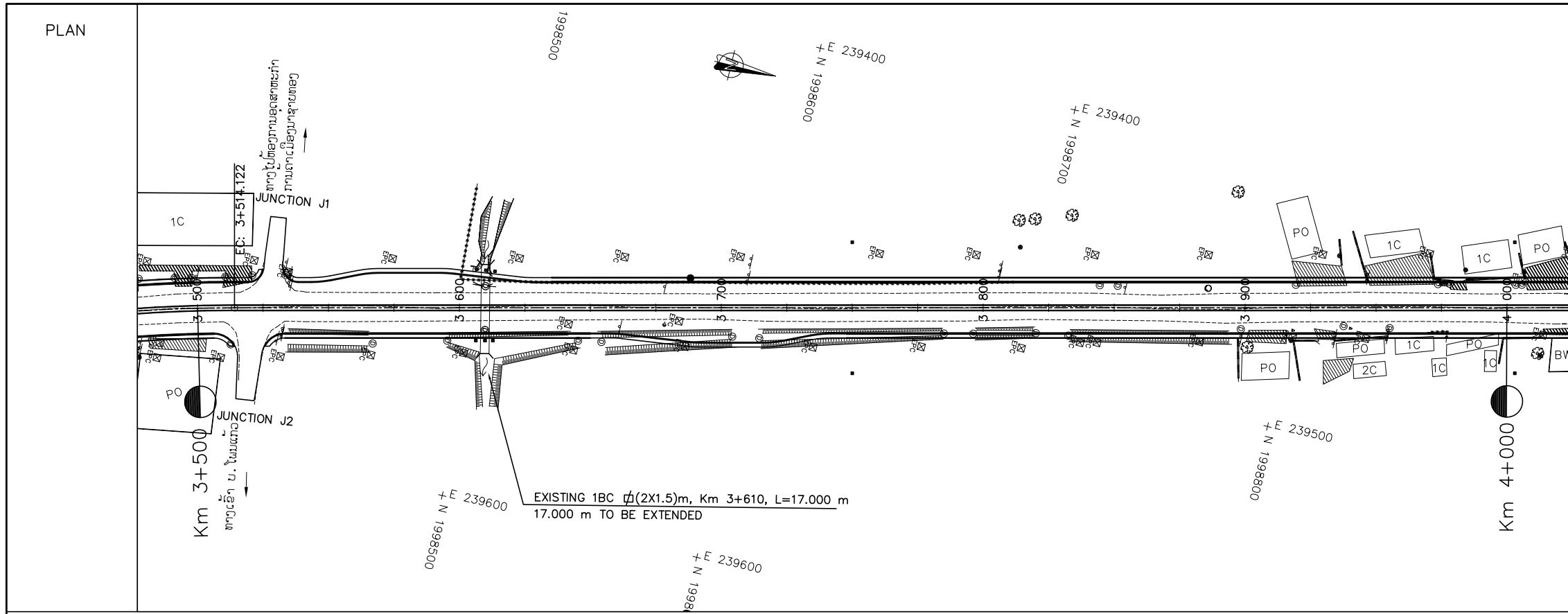


HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP4	3+423.983	1998317.625	239570.569	18°46'49"	550	90.955	7.470	180.278	3+333.844	3+514.122



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE Km 3+000 - 3+500</p>					DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

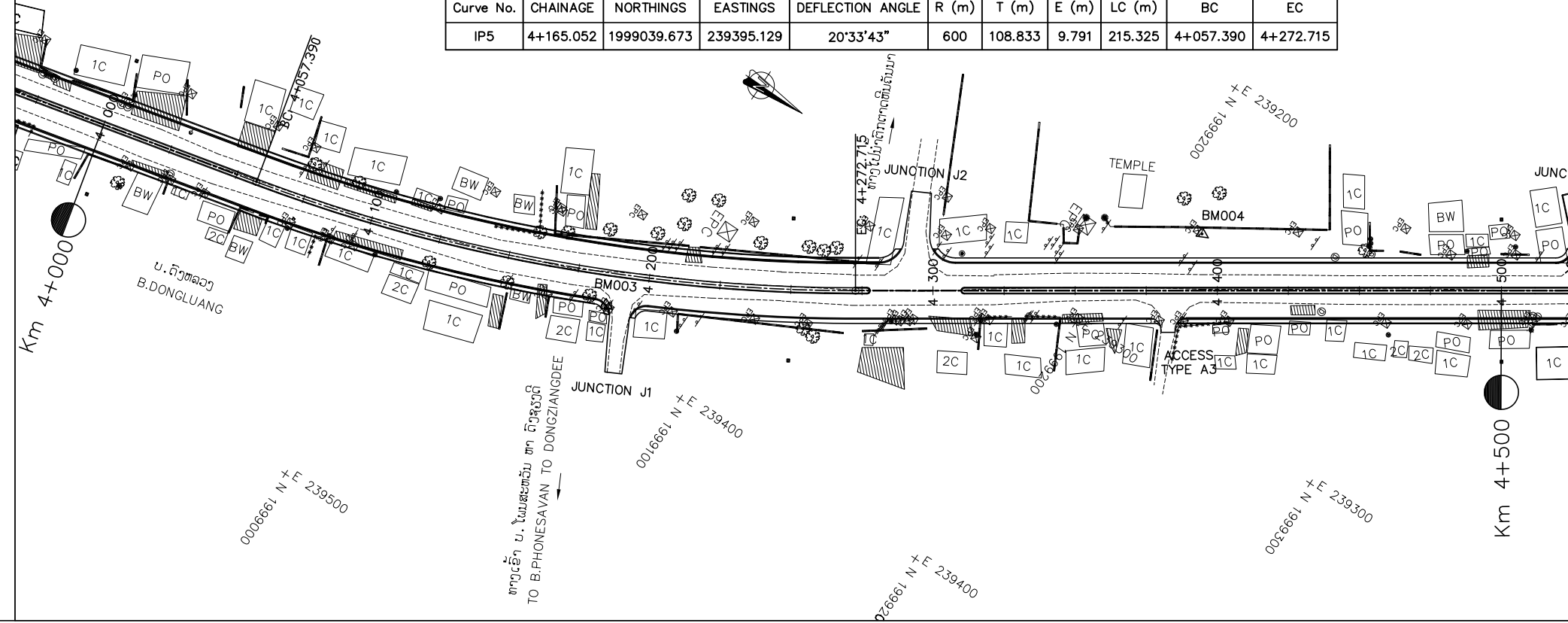
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 3+500 - 4+000

REV.	DATE	DESCRIPTION	APPROVED

NAME	SIGNATURE	LTEC CODE:
DESIGNED Mr. Souksavanh SYPHAKHAM		SD-262-17
CHECKED Mr. Khamphone SORPHABMIXAY		DATE: April, 2018
APPROVED Mr. Vandy VORASACK		DRW No. RPP-008
		SCALE: H=1:2000 V=1:200

PLAN

HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP5	4+165.052	1999039.673	239395.129	20°33'43"	600	108.833	9.791	215.325	4+057.390	4+272.715



COORDINATE

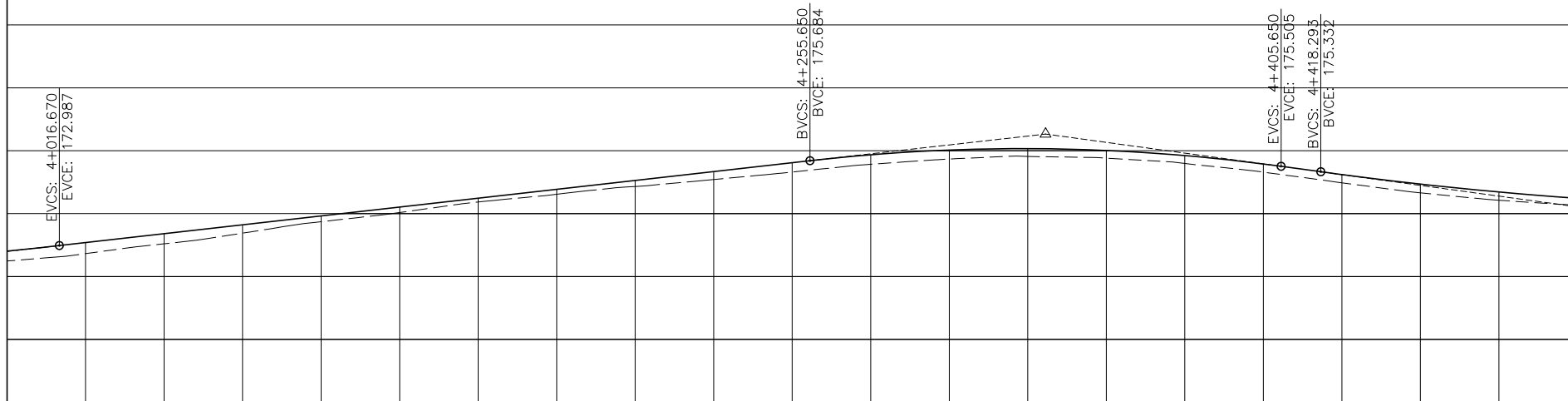
COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM003	1999060.055	239387.567	174.954
BM004	1999219.247	239248.855	175.858

PROFILE

176.000

172.000

168.000



VERTICAL CURVE

1.129%

LVC = 150.00  
RVC = 6009.908

LVC = 170.00  
RVC = 12178.443

PROPOSE LEVEL

EXISTING LEVEL

HEIGHT DIFFERENCE

HORIZONTAL CURVE

STATION

PROPOSE LEVEL	172.807	173.081	173.363	173.645	173.927	174.209	174.491	174.774	175.056	175.338	175.620	175.871	176.021	176.066	176.008	175.846	175.579	175.242	174.940	174.689	174.489							
EXISTING LEVEL	172.494	172.729	173.043	173.381	173.744	174.035	174.369	174.614	174.864	175.085	175.322	175.568	175.736	175.817	175.763	175.595	175.319	174.982	174.660	174.425	174.267							
HEIGHT DIFFERENCE	0.313	0.351	0.320	0.264	0.183	0.174	0.122	0.160	0.192	0.253	0.298	0.303	0.285	0.249	0.245	0.251	0.260	0.261	0.280	0.263	0.222							
HORIZONTAL CURVE	R=600.000m LC=215.325m										L: 361.427m N34°13'08"W																	
STATION	4+000	4+100	4+200	4+300	4+400	4+500																						

NOTES :

- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
- 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
- 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
- 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
- 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
- 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
- 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
- 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



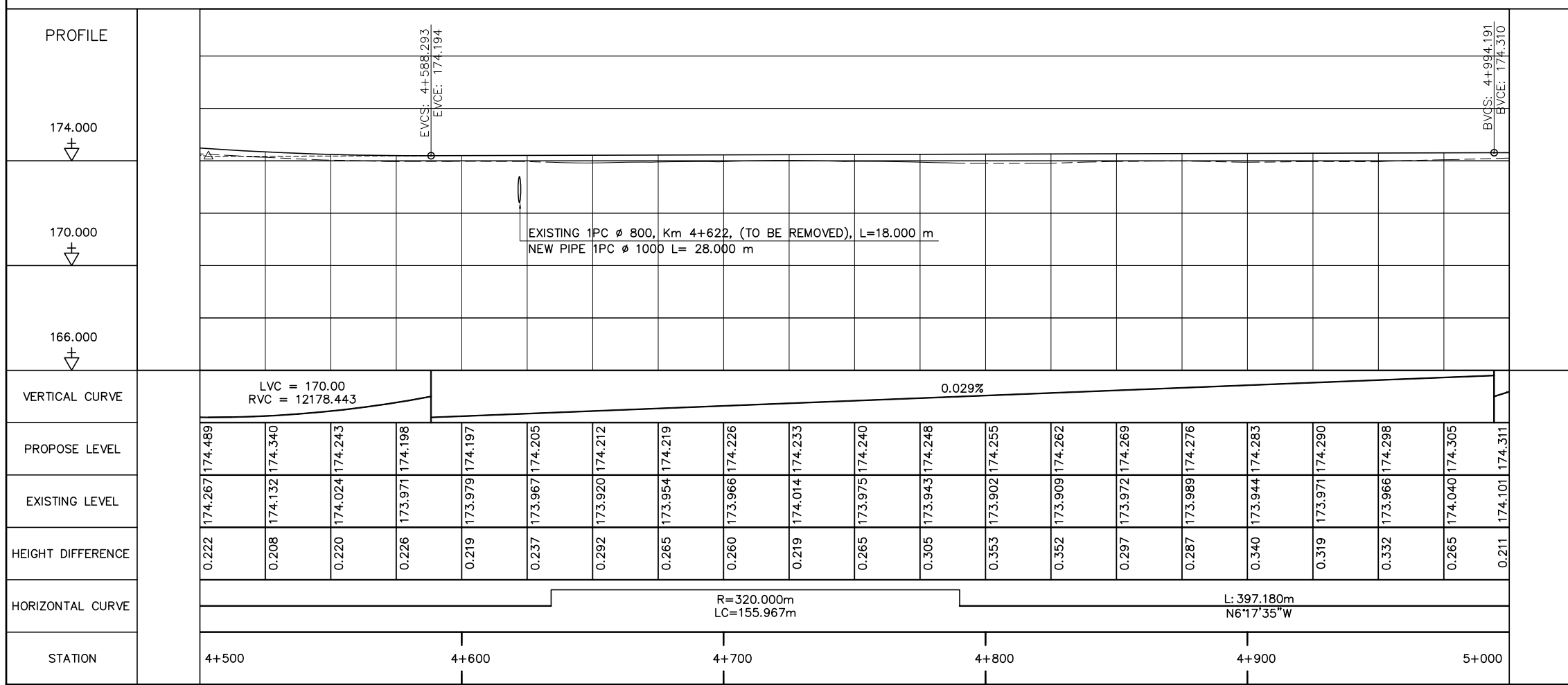
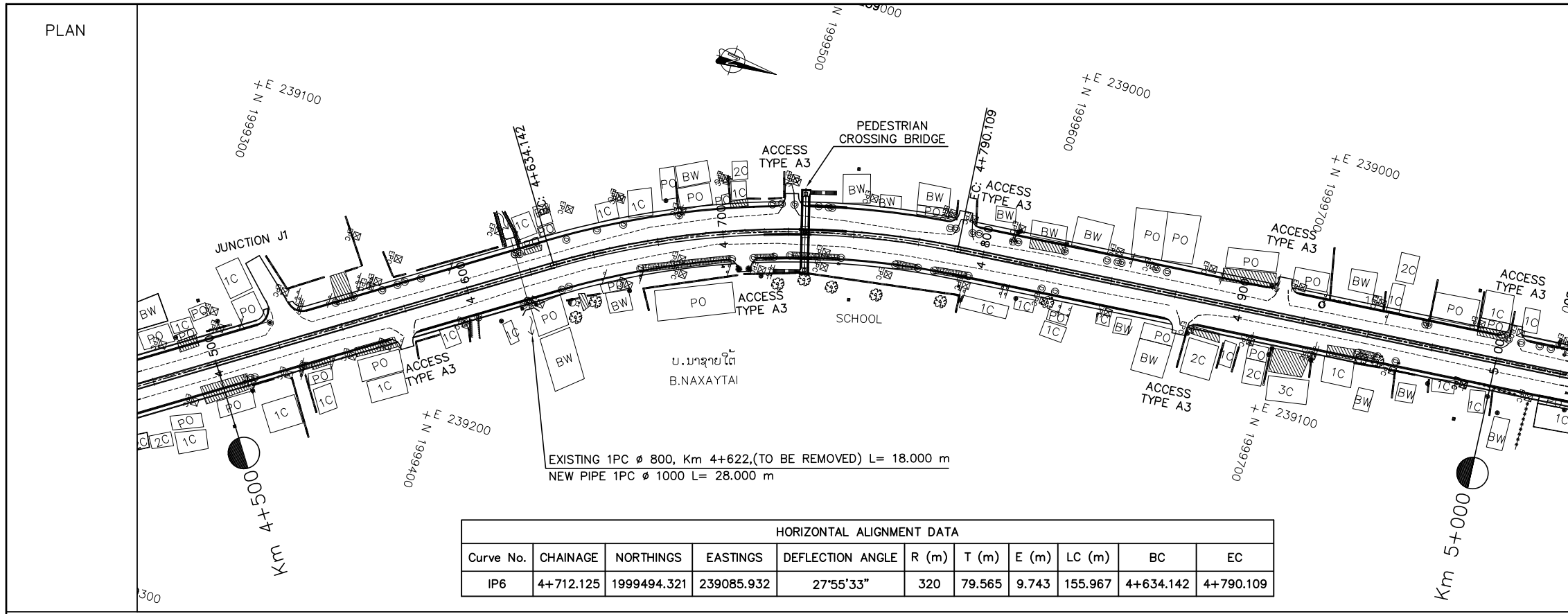
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

PLAN AND PROFILE  
Km 4+000 - 4+500

REV.	DATE	DESCRIPTION	APPROVED

NAME	SIGNATURE	LTEC CODE:
DESIGNED Mr. Souksavanh SYPHAKHAM		SD-262-17
CHECKED Mr. Khamphone SORPHABMIXAY		DATE: April, 2018
APPROVED Mr. Vandy VORASACK		DRW No. RPP-009
		SCALE: H=1:2000 V=1:200

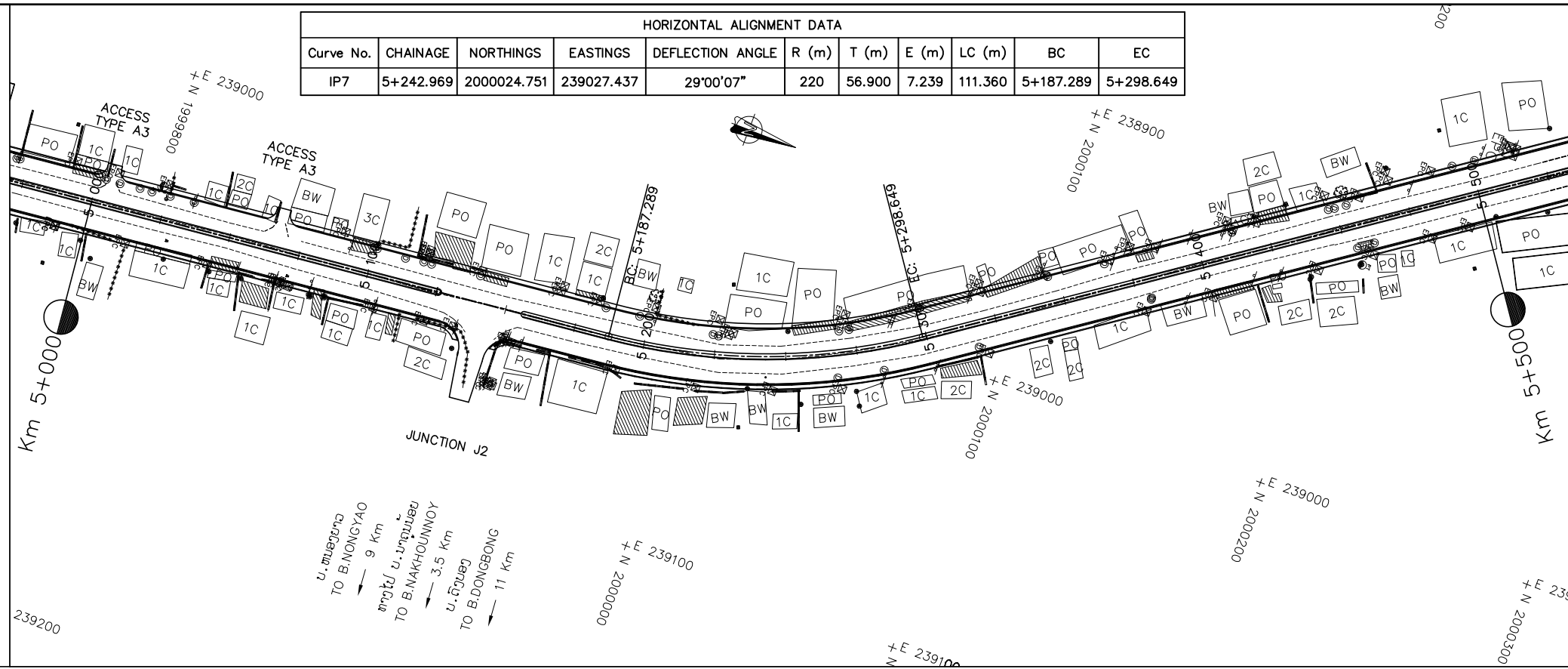


- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

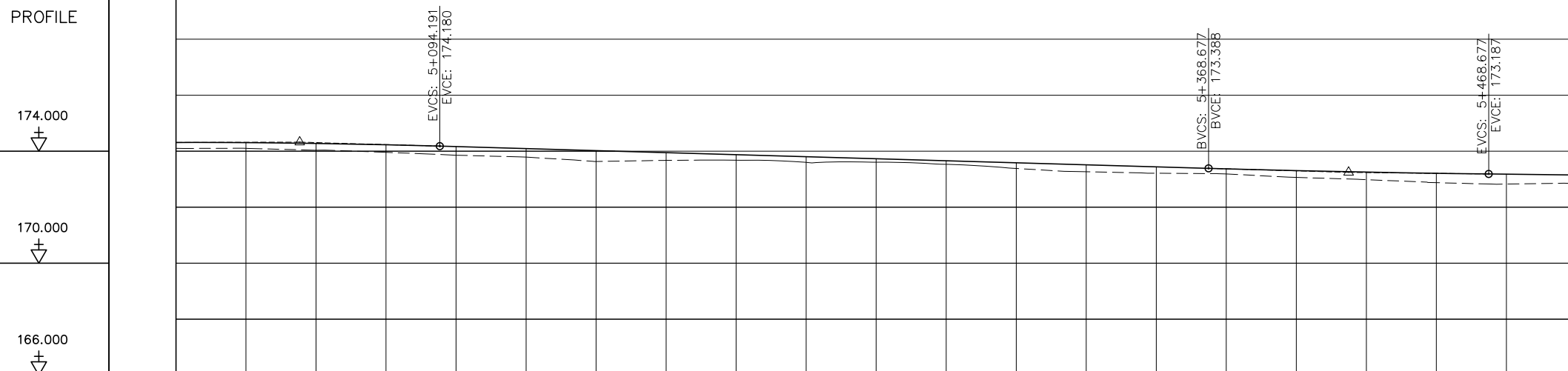
<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ        LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT          CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE          Km 4+500 - 5+000</p>				DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
					CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-010
					APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200

PLAN

HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP7	5+242.969	2000024.751	239027.437	29°00'07"	220	56.900	7.239	111.360	5+187.289	5+298.649



PROFILE



VERTICAL CURVE	LVC = 100.00 RVC = 31528.433		-0.289%										LVC = 100.00 RVC = 57438.512								
PROPOSE LEVEL	174.311	174.304	174.277	174.230	174.164	174.091	174.019	173.947	173.875	173.803	173.731	173.659	173.586	173.514	173.442	173.370	173.306	173.253	173.211	173.180	173.151
EXISTING LEVEL	174.101	174.102	174.035	173.959	173.857	173.788	173.632	173.673	173.677	173.600	173.606	173.531	173.384	173.266	173.213	173.188	173.064	172.984	172.876	172.826	172.856
HEIGHT DIFFERENCE	0.211	0.202	0.241	0.271	0.307	0.303	0.387	0.274	0.198	0.203	0.124	0.128	0.202	0.248	0.229	0.182	0.242	0.270	0.335	0.354	0.295
HORIZONTAL CURVE	L: 397.180m N6°17'35"W					R= 220.000m LC=111.360m					L: 820.107m N35°17'42"W										
STATION	5+000	5+100				5+200				5+300				5+400				5+500			

NOTES :

- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
- 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
- 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
- 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
- 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
- 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
- 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
- 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

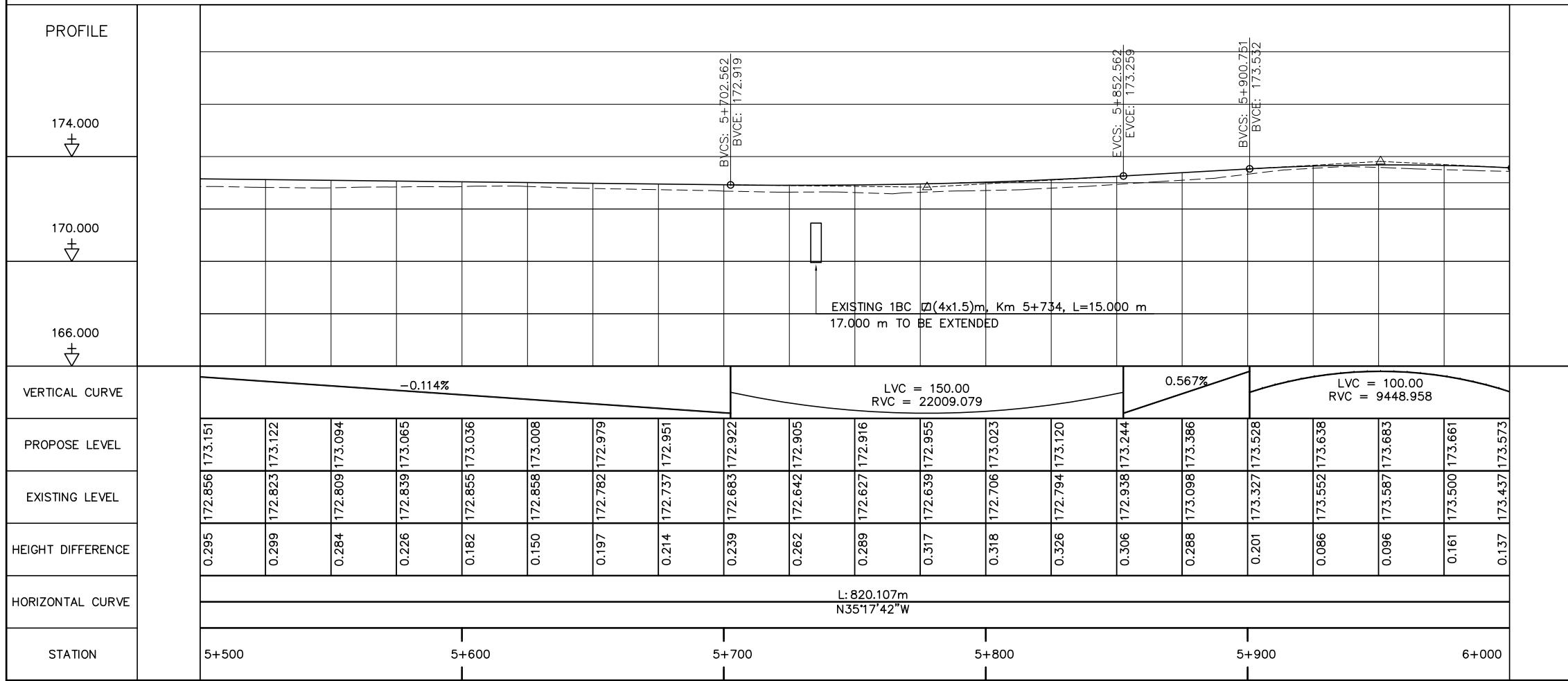
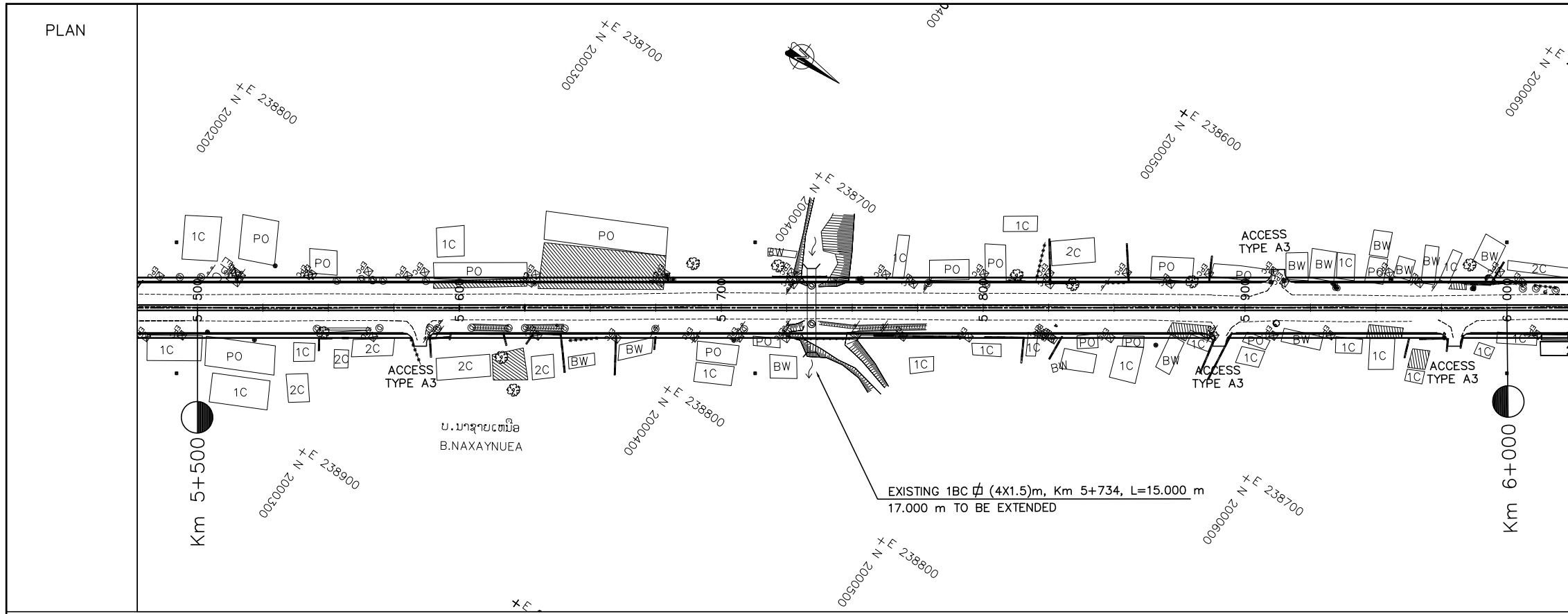


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

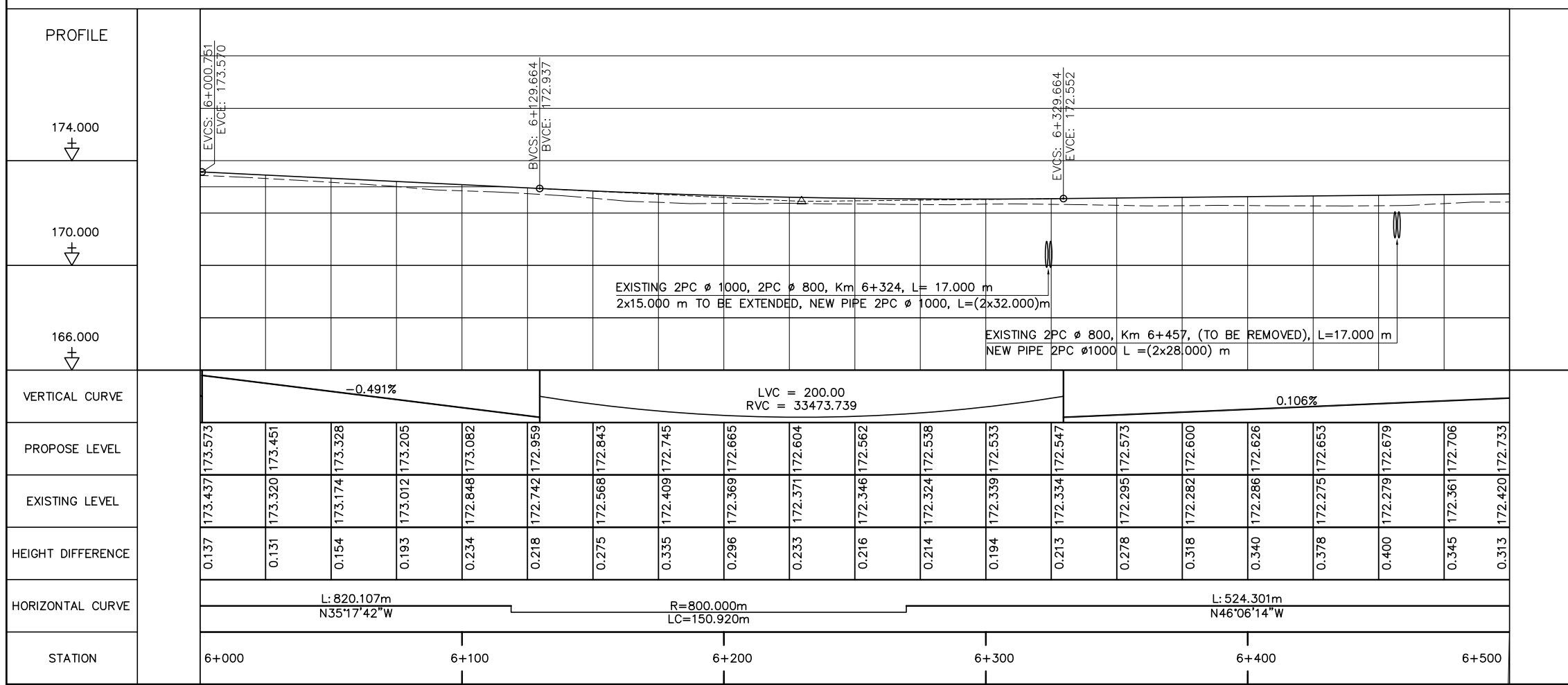
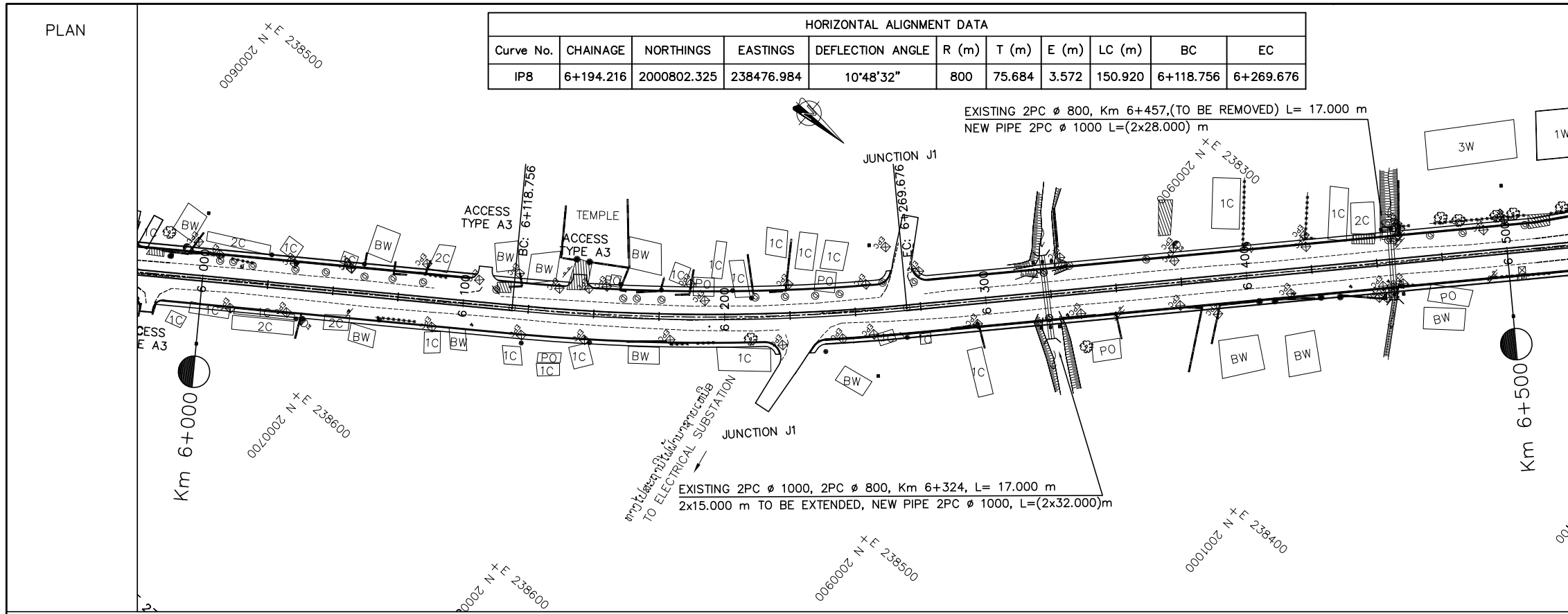
PLAN AND PROFILE  
Km 5+000 - 5+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
				DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
				CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-011
				APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



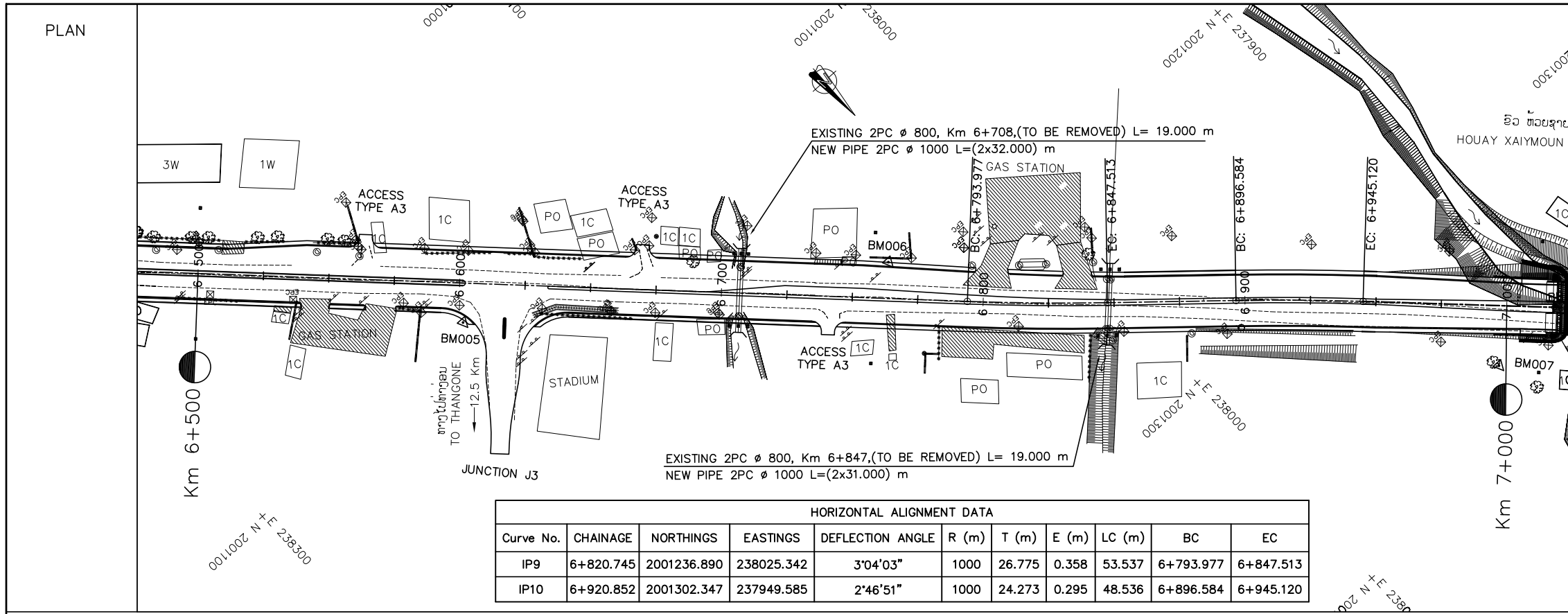
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p>		REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE Km 5+500 - 6+000</p>						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-012
							APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



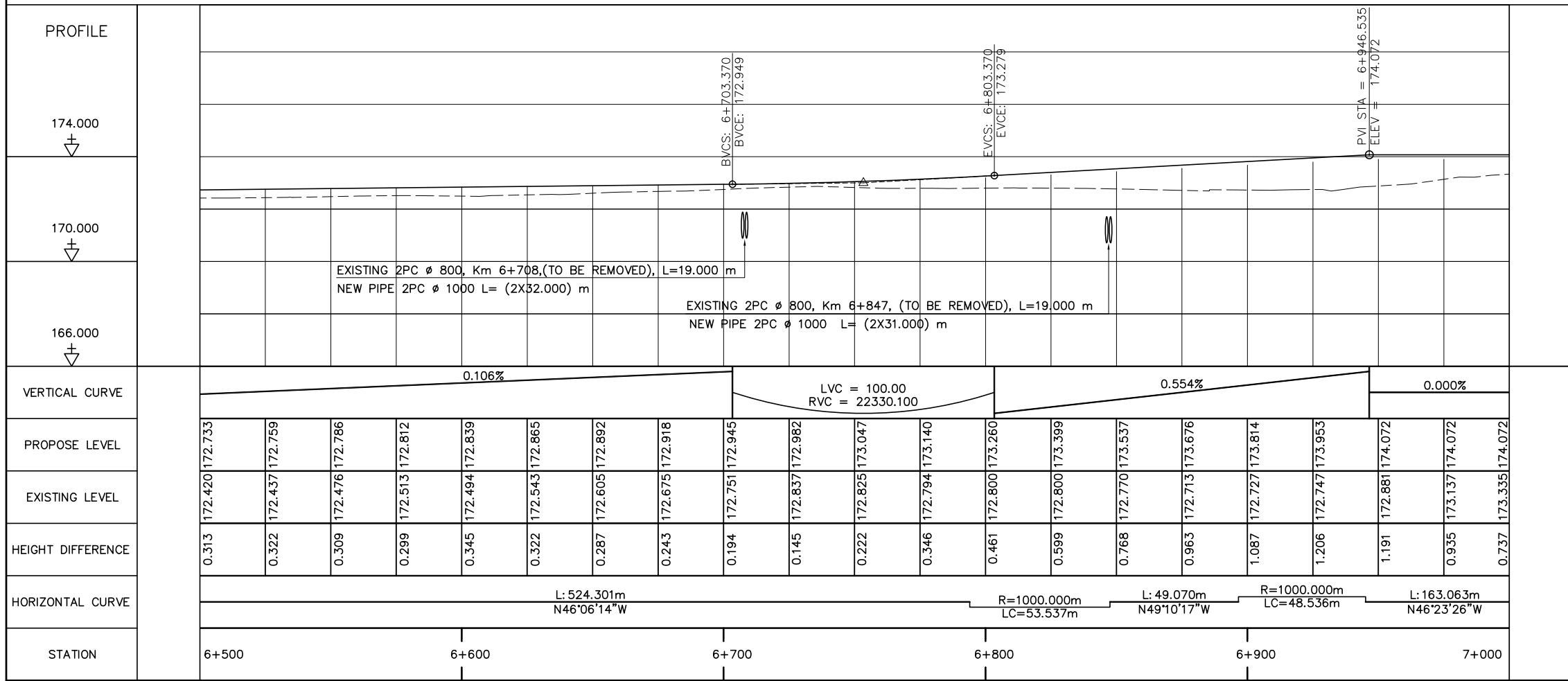
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 6+000 - 6+500</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-013
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



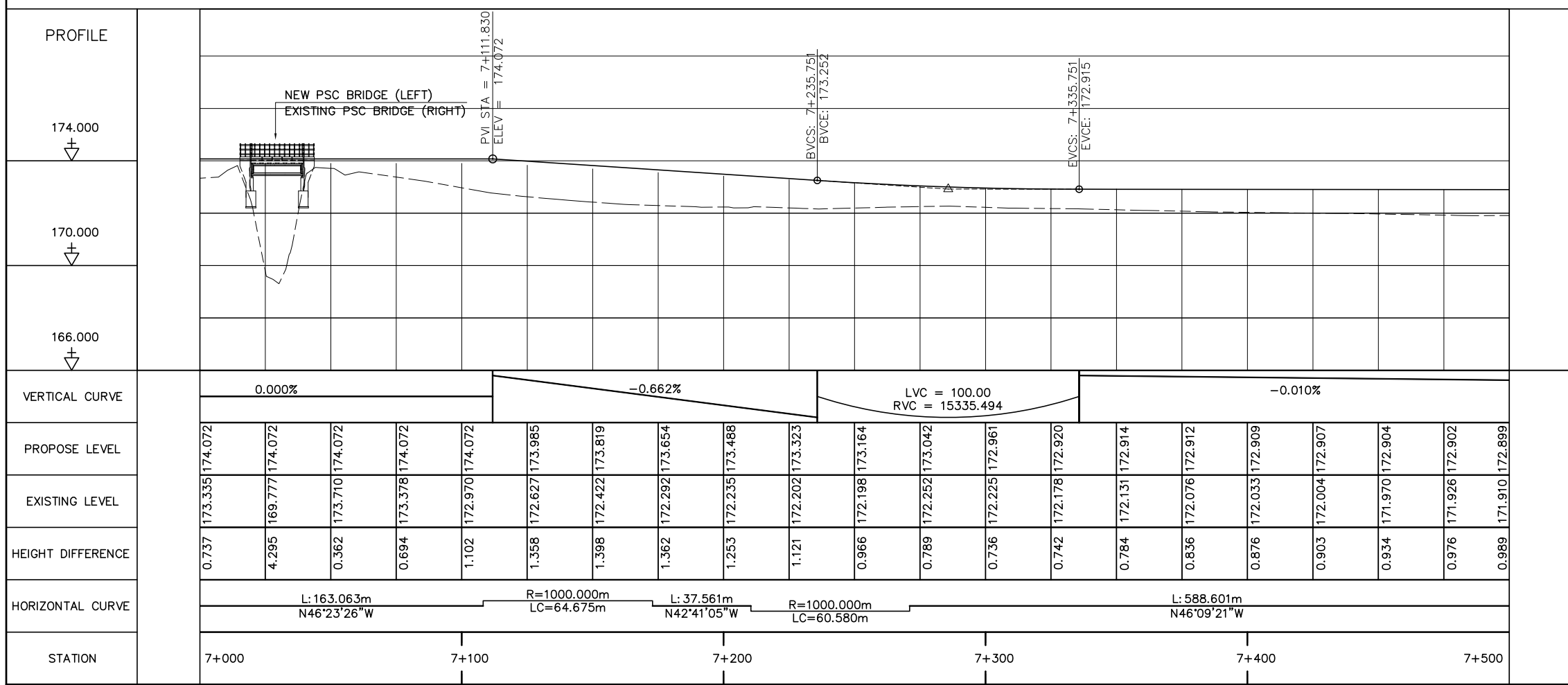
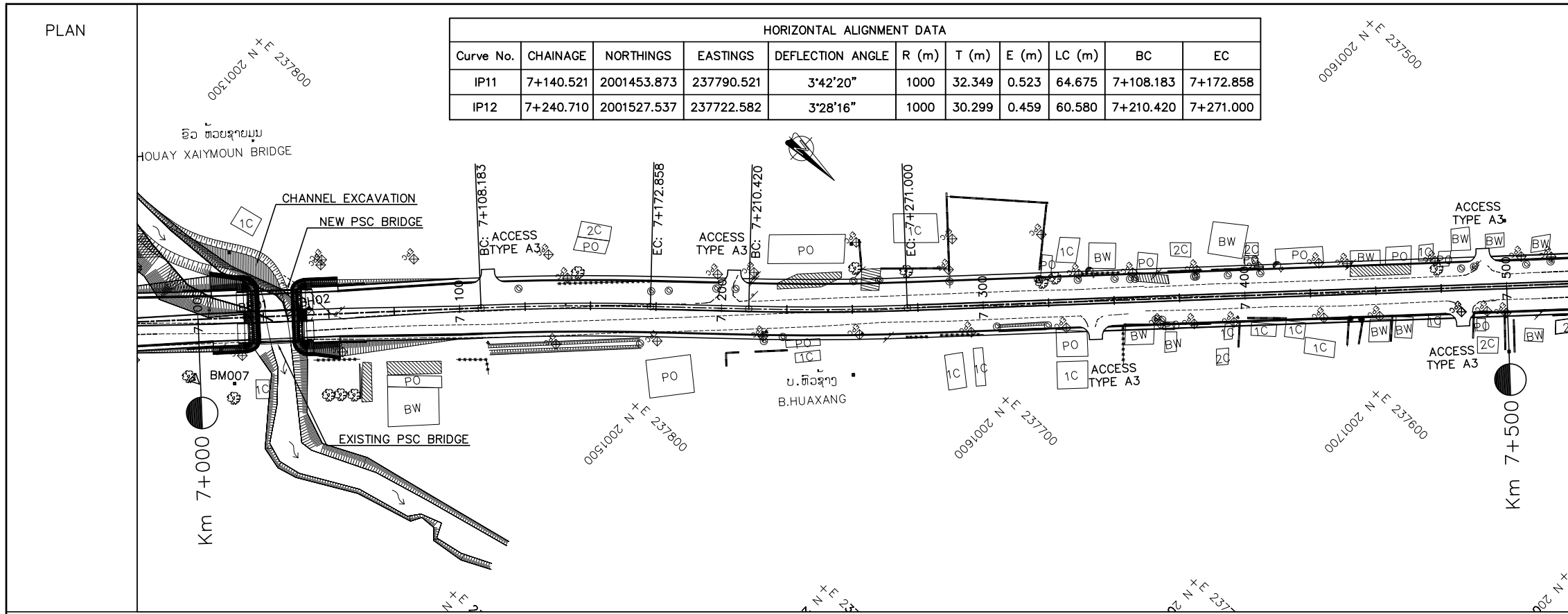
HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP9	6+820.745	2001236.890	238025.342	3°04'03"	1000	26.775	0.358	53.537	6+793.977	6+847.513
IP10	6+920.852	2001302.347	237949.585	2°46'51"	1000	24.273	0.295	48.536	6+896.584	6+945.120

COORDINATE			
COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM005	2001095.944	238193.532	172.331
BM006	2001187.047	238057.142	172.497
BM007	2001371.965	237909.720	172.909



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

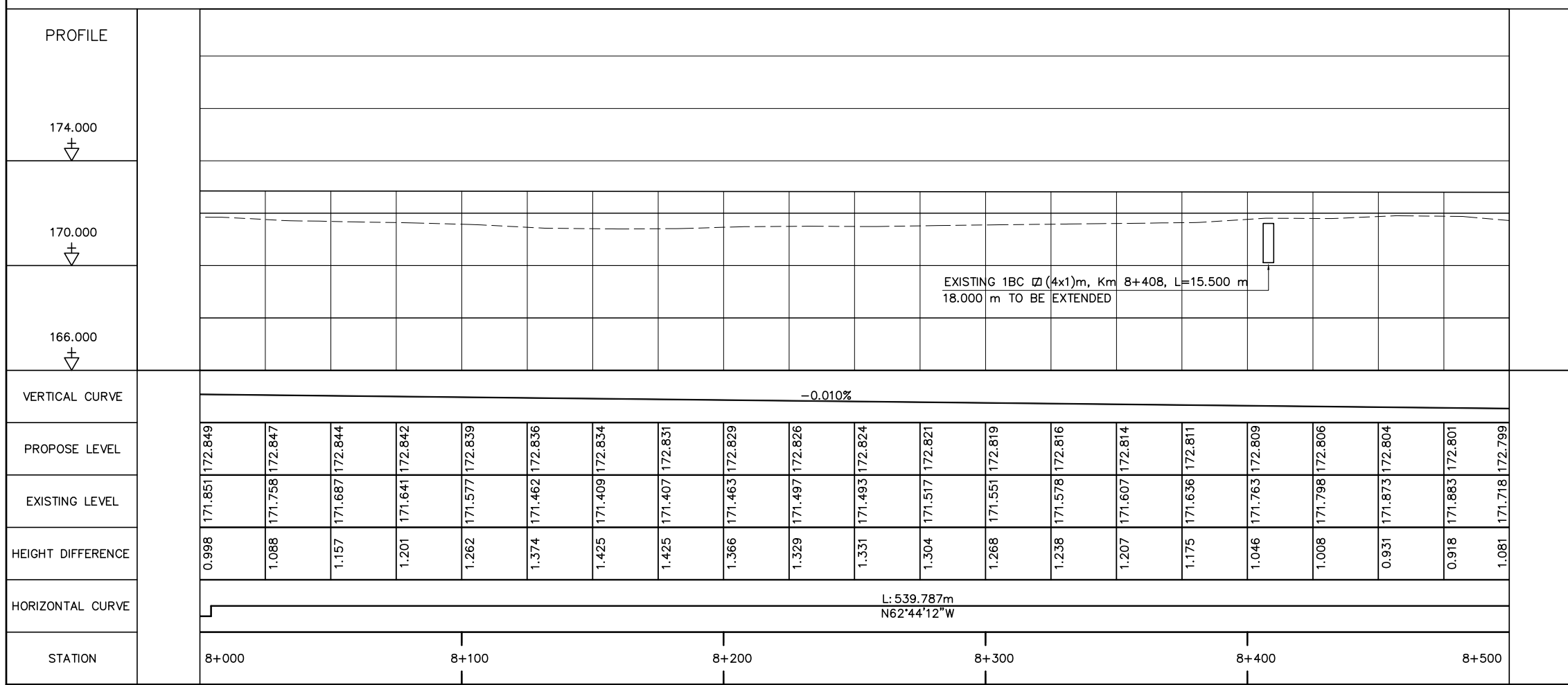
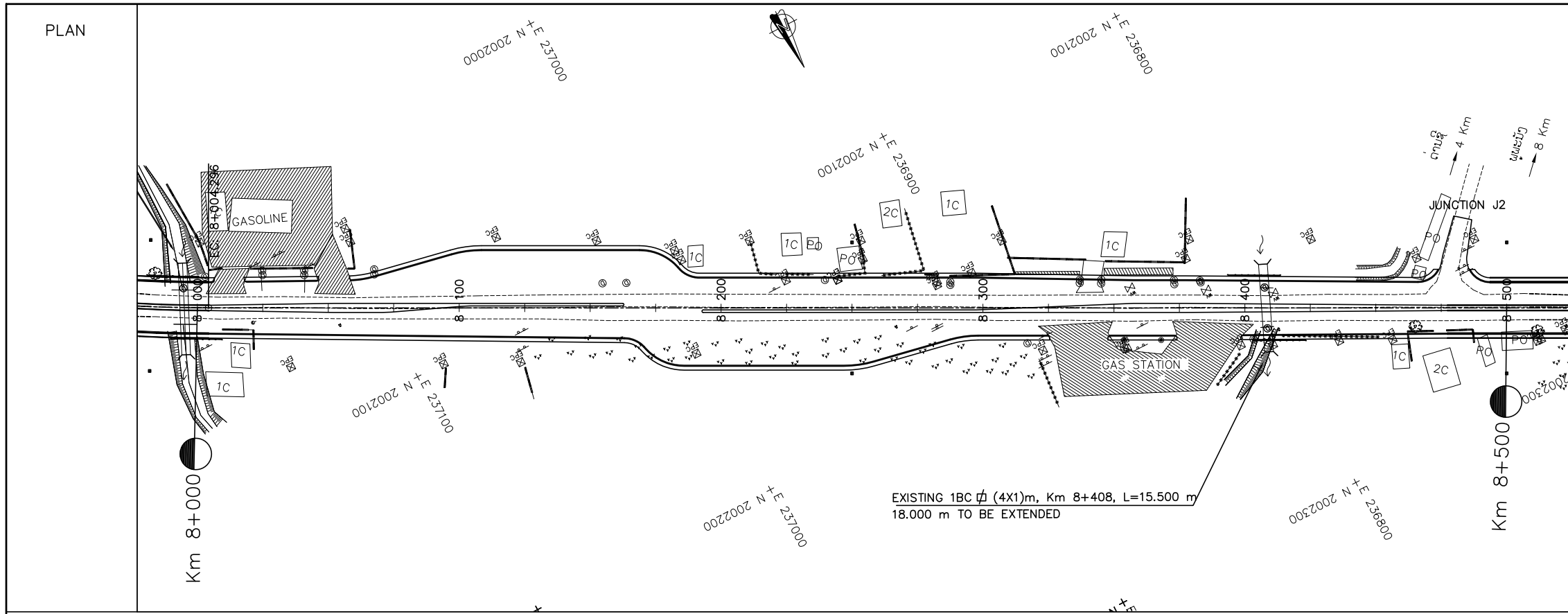
<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 6+500 - 7+000</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-014
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 7+000 - 7+500</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-015
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200





- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

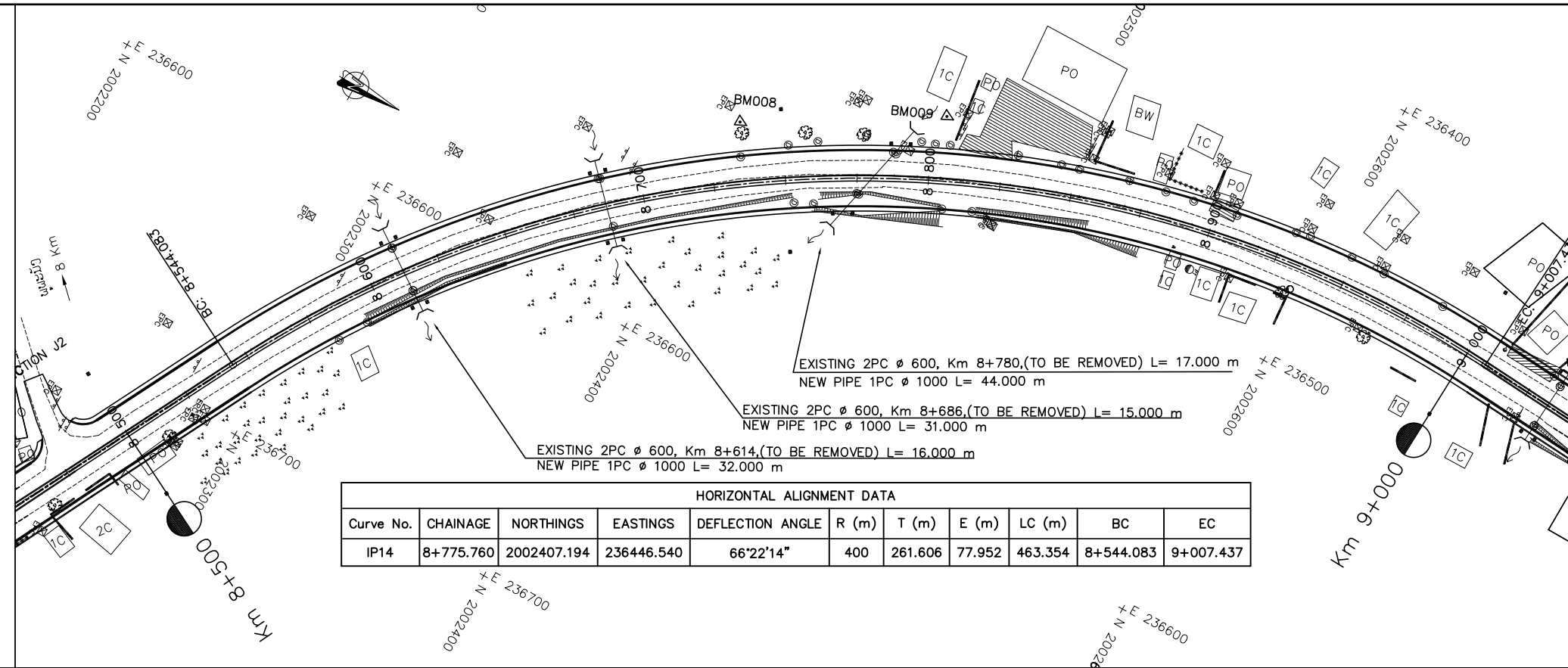
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-017
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 8+000 - 8+500

PLAN

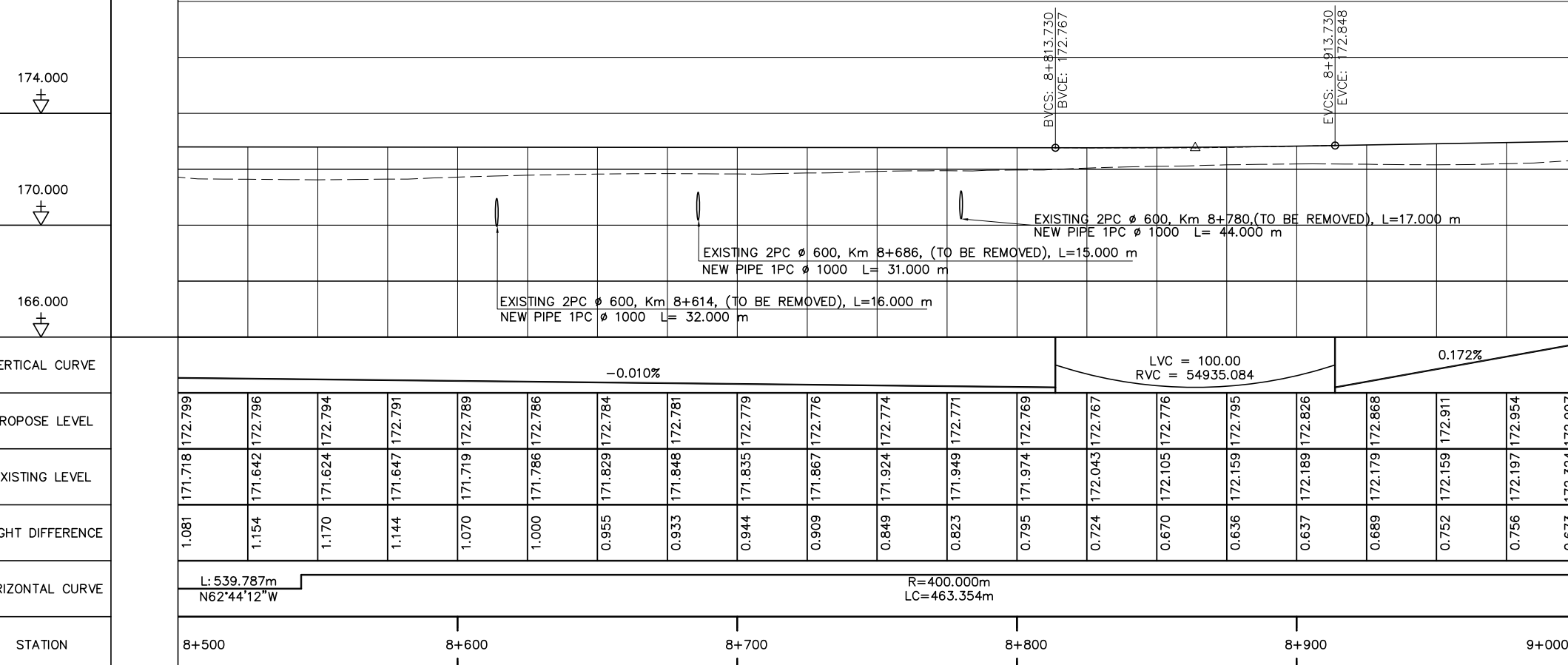


HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP14	8+775.760	2002407.194	236446.540	66°22'14"	400	261.606	77.952	463.354	8+544.083	9+007.437

COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM008	2002399.757	236517.829	172.217
BM009	2002461.687	236480.487	172.118

PROFILE



NOTES :

- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
- 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
- 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
- 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
- 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
- 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
- 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
- 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

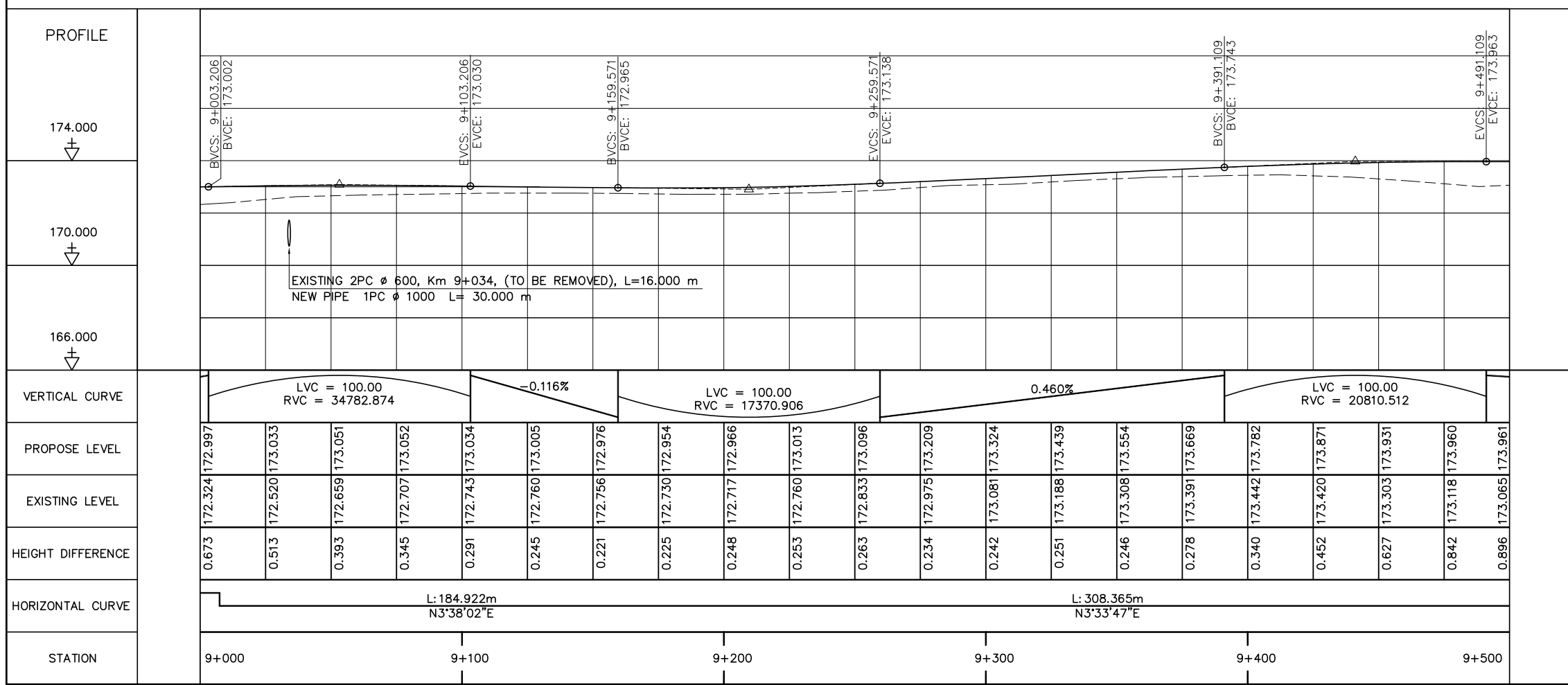
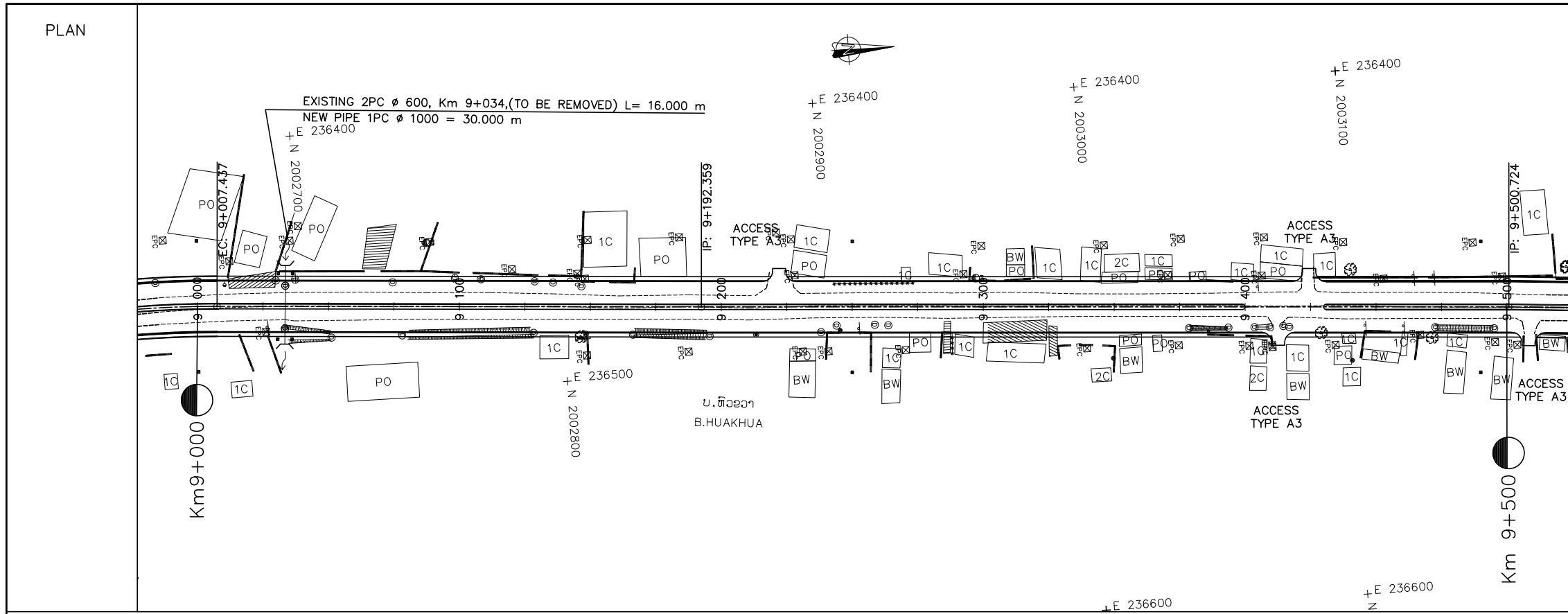


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

PLAN AND PROFILE  
Km 8+500 - 9+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-018
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

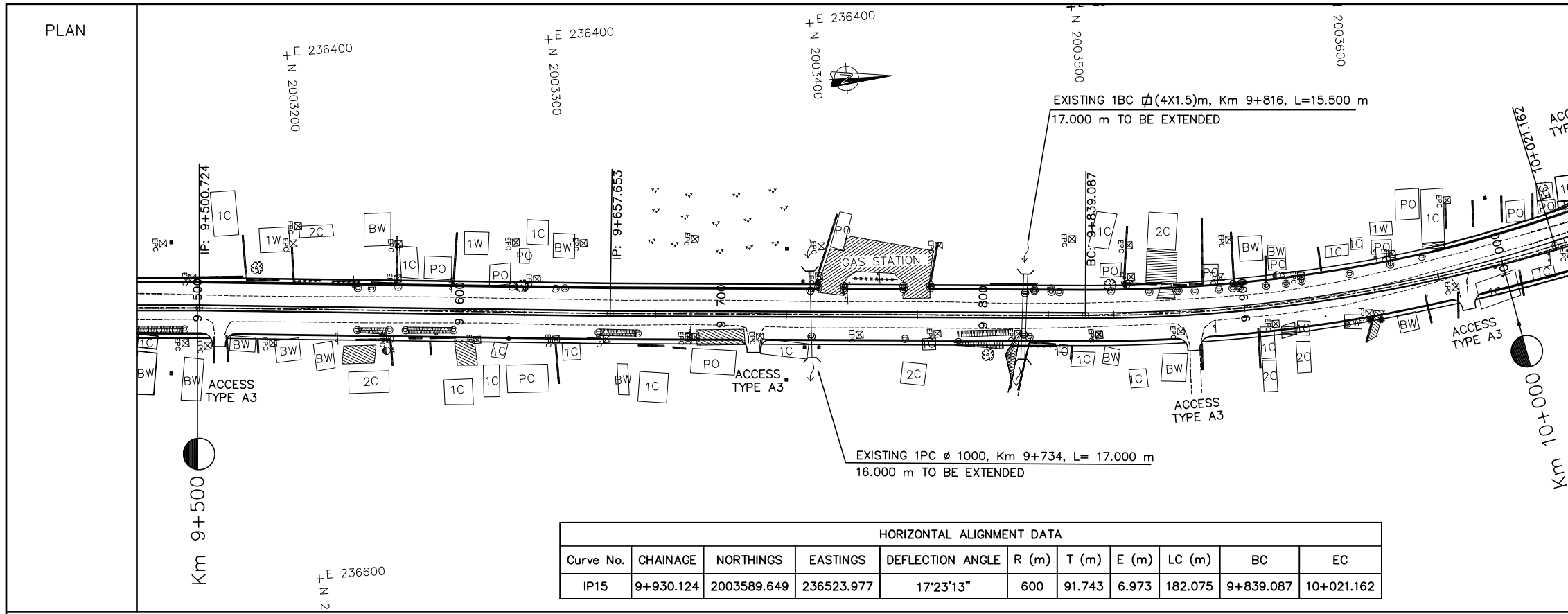


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

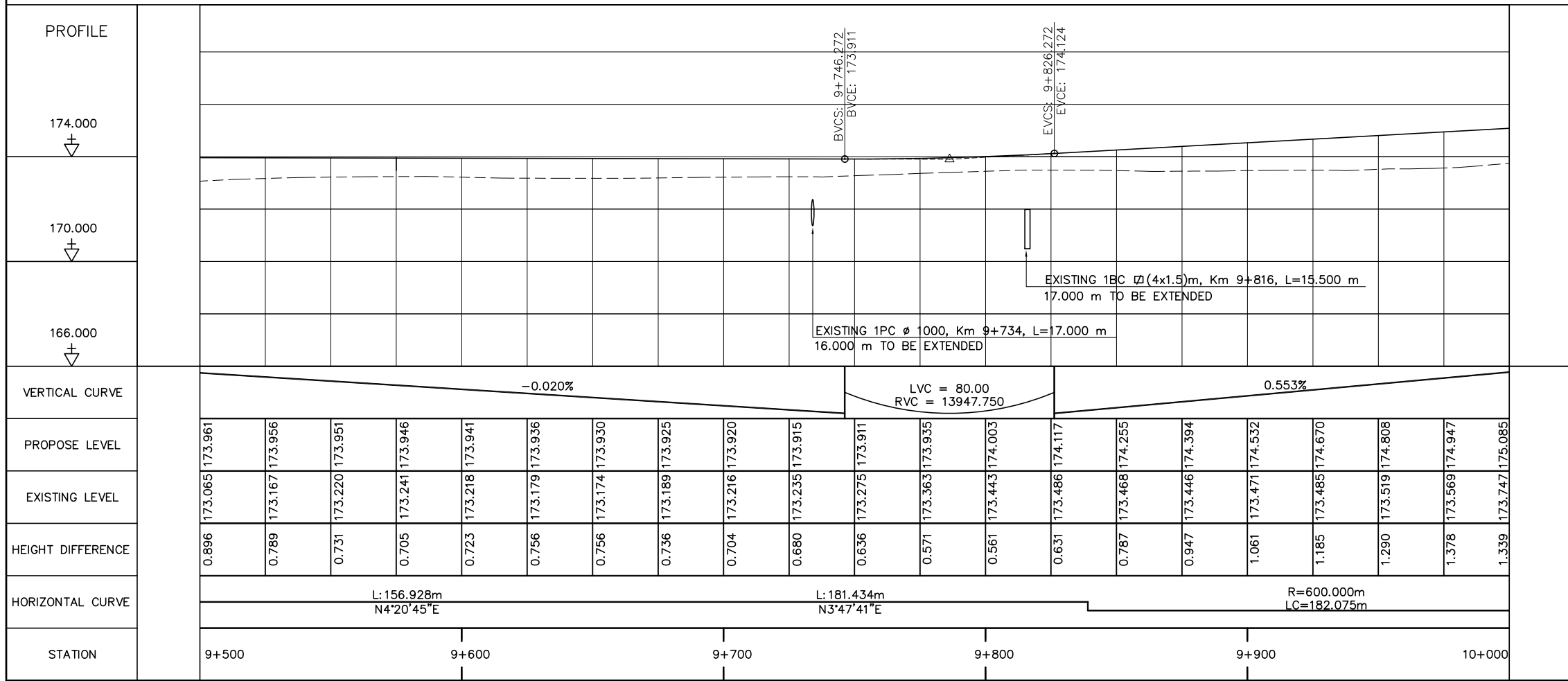
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 9+000 - 9+500

REV.	DATE	DESCRIPTION	APPROVED

NAME	SIGNATURE	LTEC CODE:
DESIGNED Mr. Souksavanh SYPHAKHAM		SD-262-17
CHECKED Mr. Khamphone SORPHABMIXAY		DATE: April, 2018
APPROVED Mr. Vandy VORASACK		DRW No. RPP-019
		SCALE: H=1:2000 V=1:200



HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP15	9+930.124	2003589.649	236523.977	17°23'13"	600	91.743	6.973	182.075	9+839.087	10+021.162



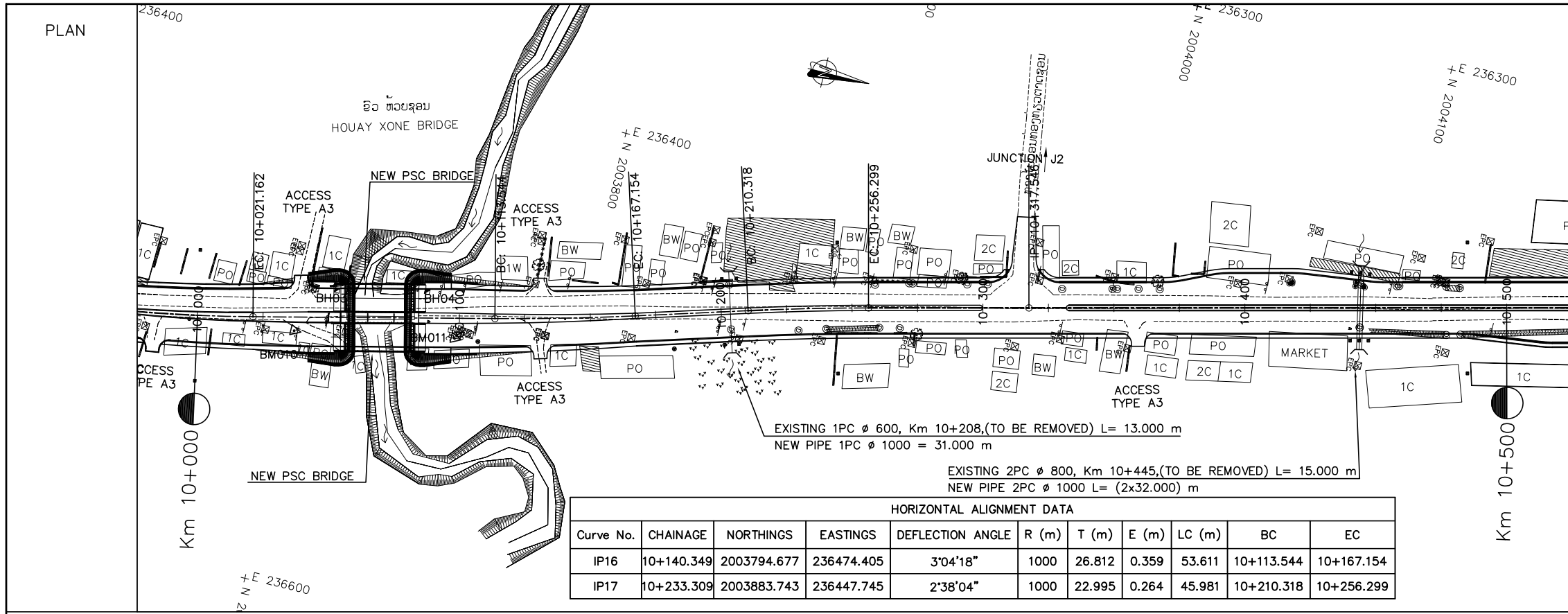
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 9+500 - 10+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-020
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200

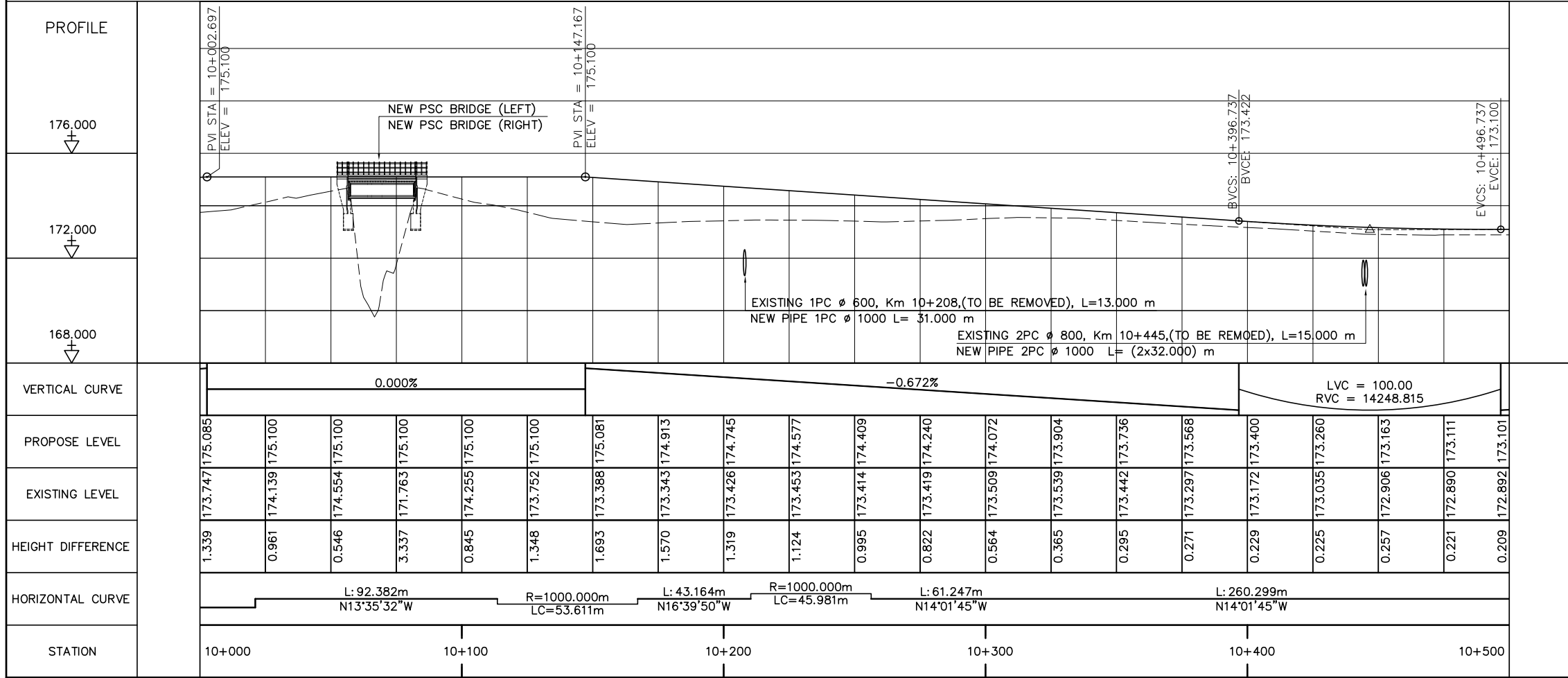


**COORDINATE**

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM010	2003695.374	236503.794	174.318
BM011	2003755.503	236491.809	173.416

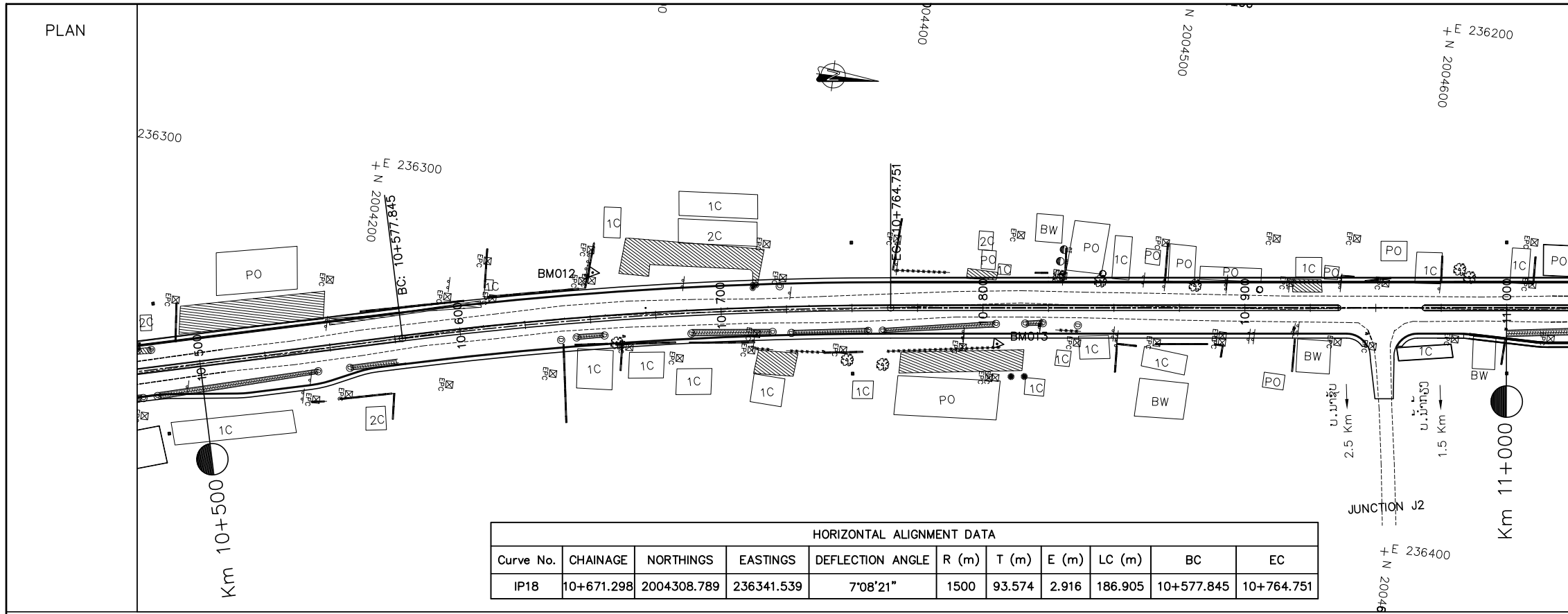
**HORIZONTAL ALIGNMENT DATA**

Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP16	10+140.349	2003794.677	236474.405	3°04'18"	1000	26.812	0.359	53.611	10+113.544	10+167.154
IP17	10+233.309	2003883.743	236447.745	2°38'04"	1000	22.995	0.264	45.981	10+210.318	10+256.299



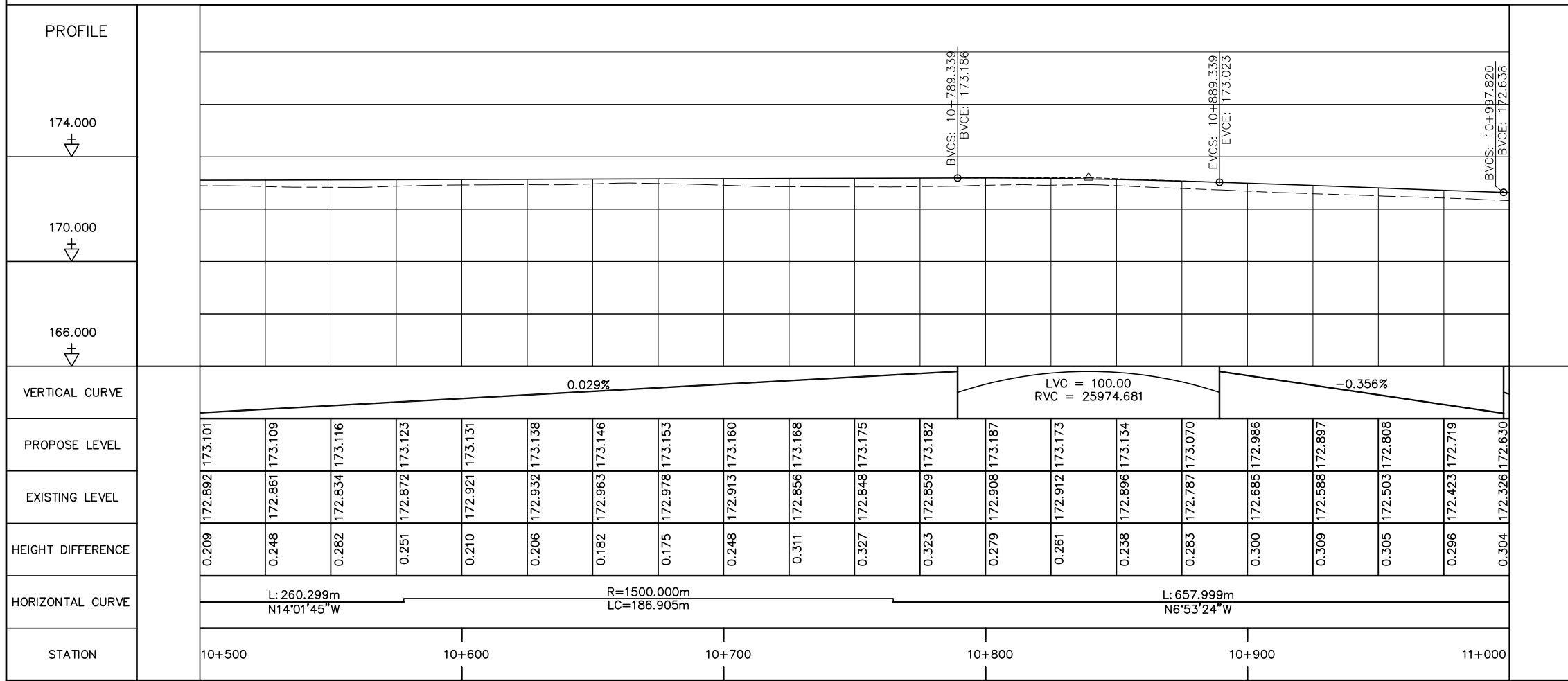
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p><b>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ</b> LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p><b>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT</b> <b>CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</b></p>	<p><b>REV.</b></p>	<p><b>DATE</b></p>	<p><b>DESCRIPTION</b></p>	<p><b>APPROVED</b></p>	<p><b>NAME</b></p>	<p><b>SIGNATURE</b></p>	<p><b>LTEC CODE:</b> SD-262-17</p>	
	<p><b>PLAN AND PROFILE</b> Km 10+000 - 10+500</p>								<p><b>DESIGNED</b> Mr. Souksavanh SYPHAKHAM</p>
									<p><b>DATE:</b> April, 2018</p>
									<p><b>DRW No.</b> RPP-021</p>
								<p><b>SCALE:</b> H=1:2000 V=1:200</p>	




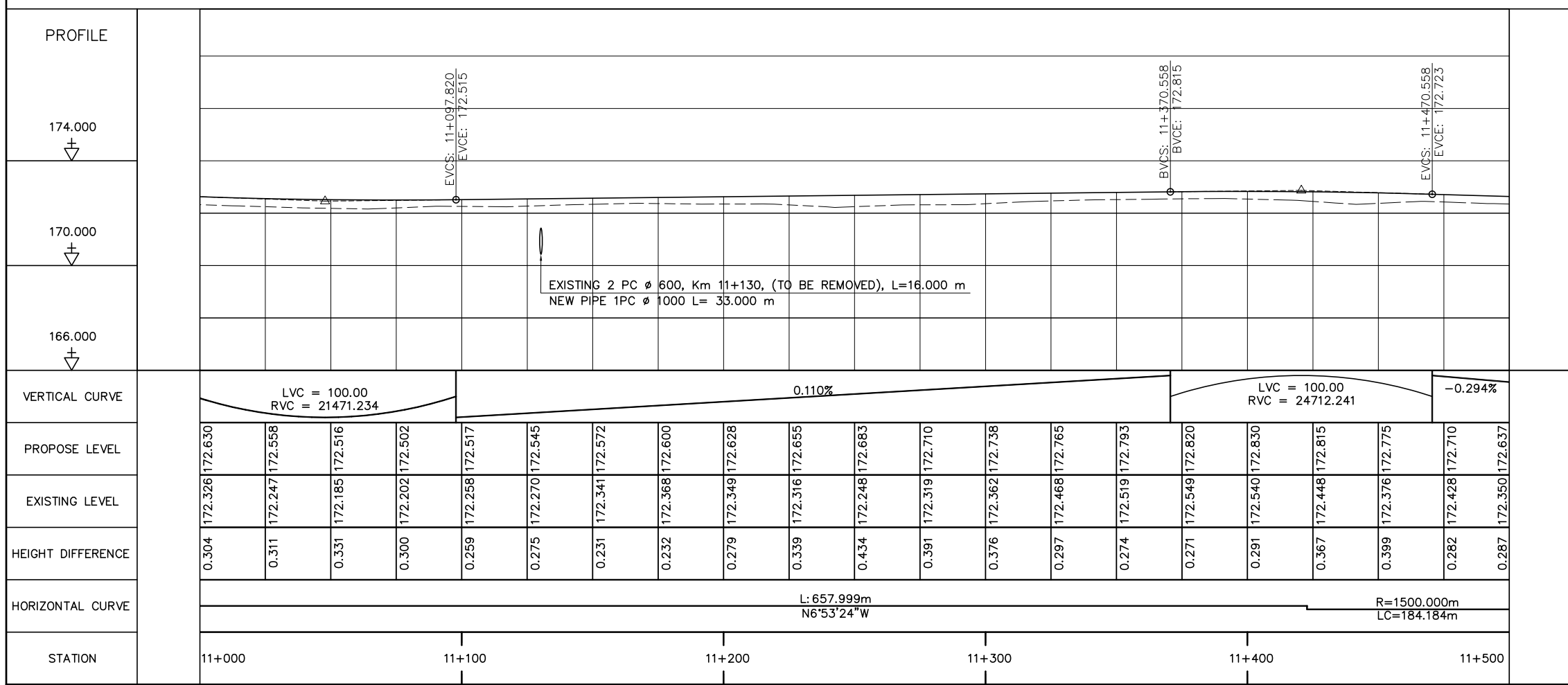
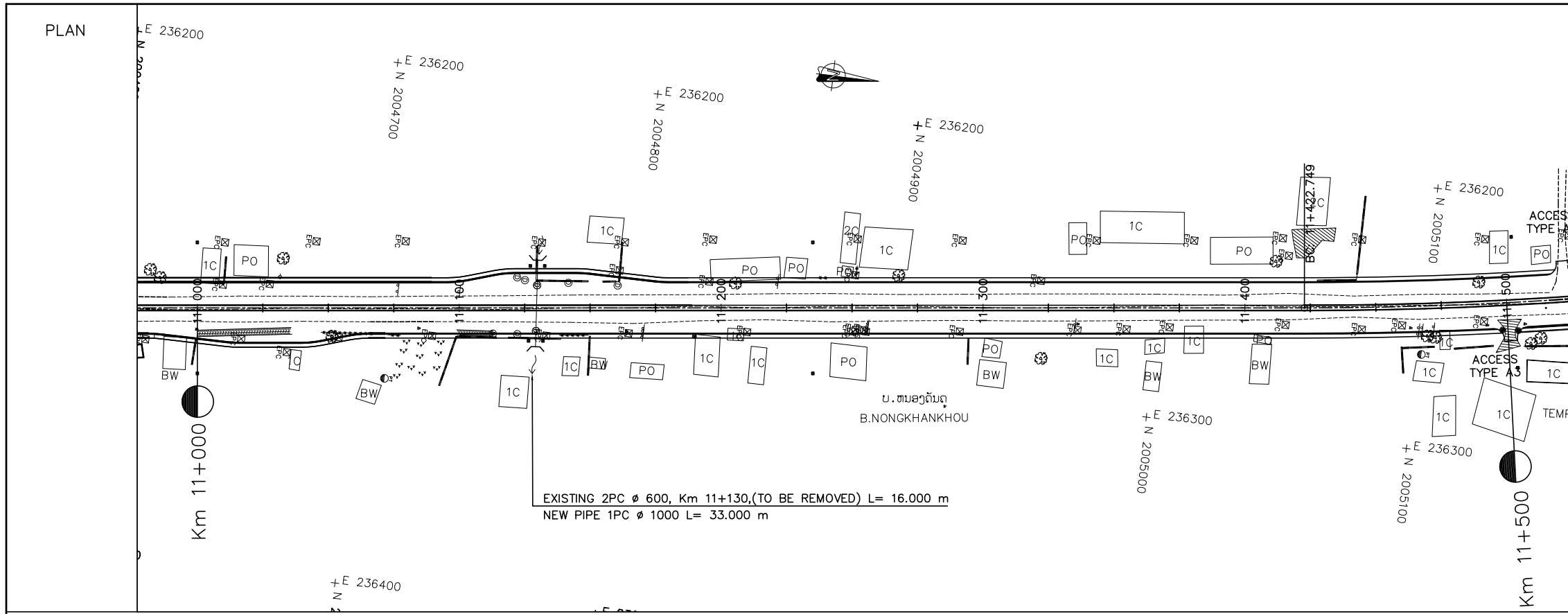
**COORDINATE**

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM012	2004287.095	236330.569	173.354
BM013	2004443.656	236339.063	172.925



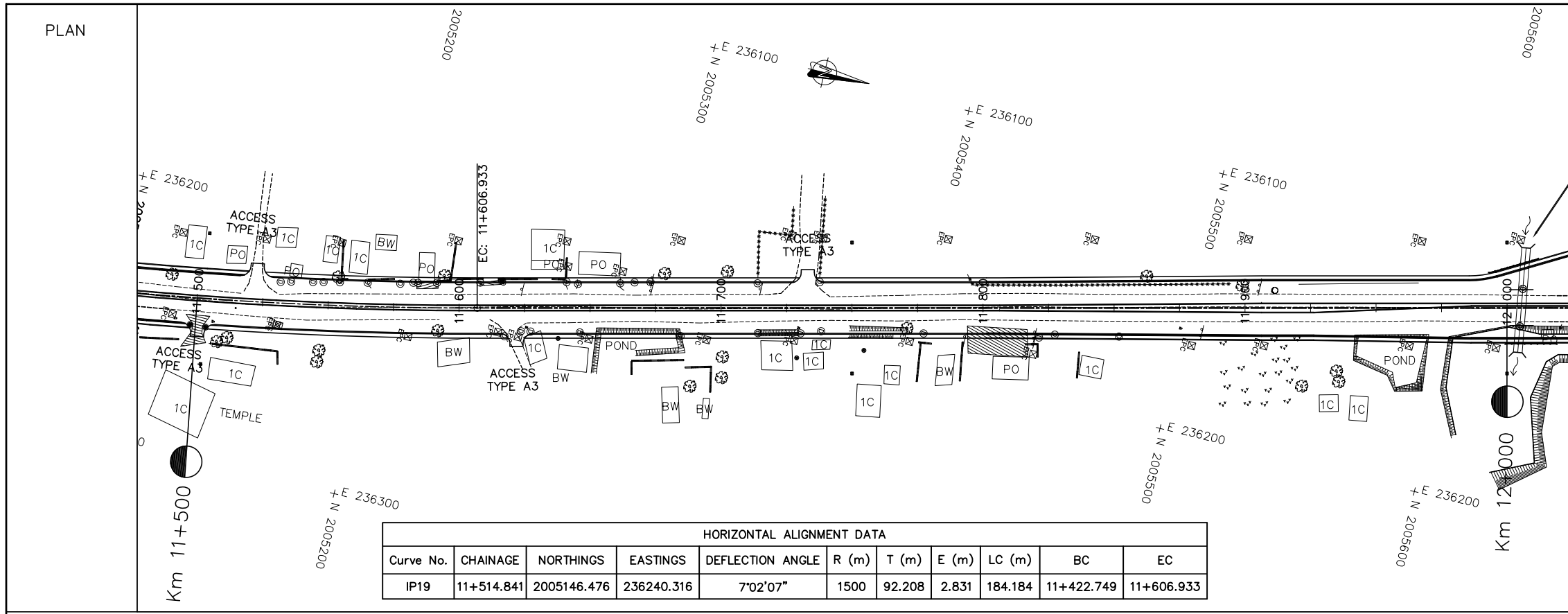
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

 <p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p>	<p>REV.    DATE    DESCRIPTION    APPROVED</p>	<p>NAME    SIGNATURE    LTEC CODE: SD-262-17</p>	
	<p>PLAN AND PROFILE Km 10+500 - 11+000</p>	<p>DESIGNED Mr. Souksavanh SYPHAKHAM    DATE: April, 2018</p>	<p>CHECKED Mr. Khamphone SORPHABMIXAY    DRW No. RPP-022</p>	<p>APPROVED Mr. Vandy VORASACK    SCALE: H=1:2000 V=1:200</p>

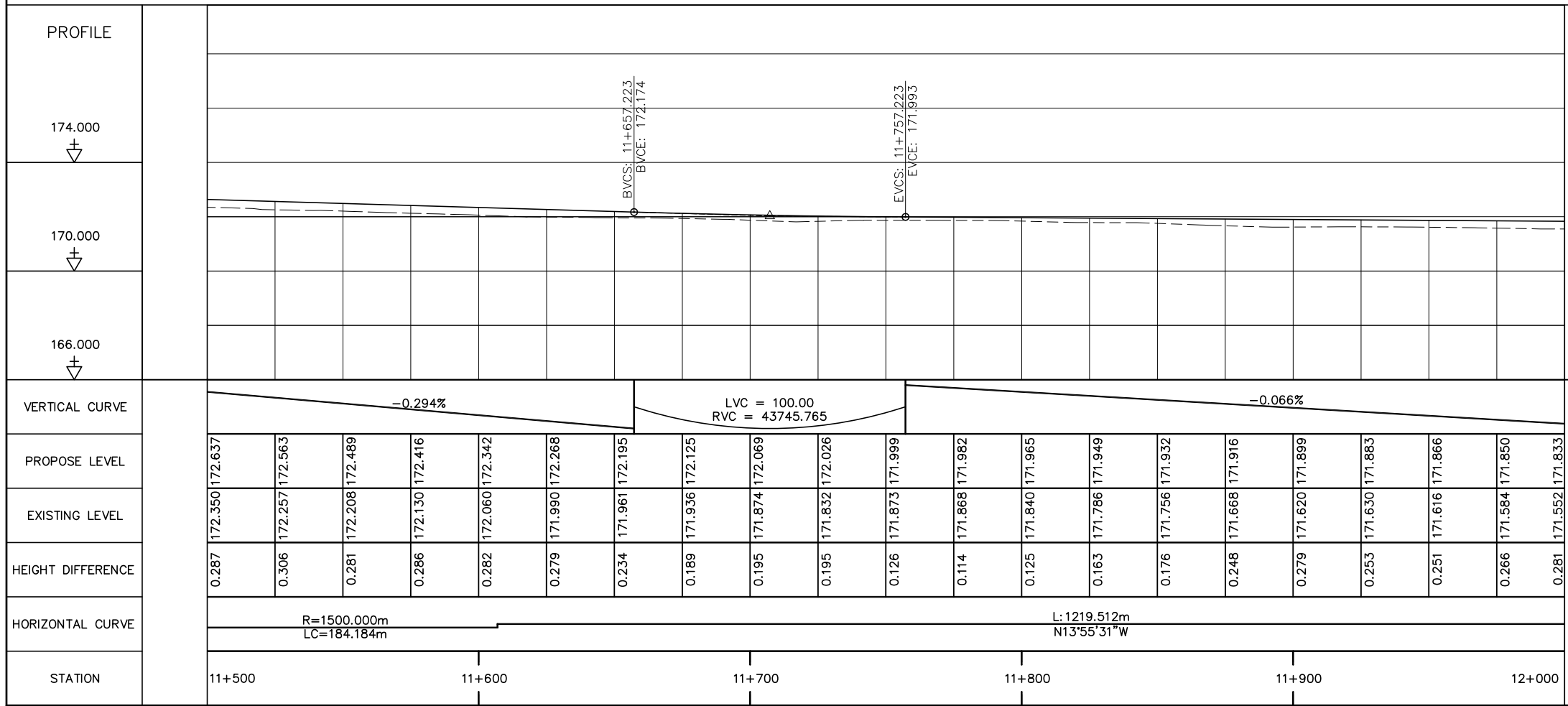


- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ        LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE          Km 11+000 - 11+500</p>					DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP19	11+514.841	2005146.476	236240.316	7°02'07"	1500	92.208	2.831	184.184	11+422.749	11+606.933



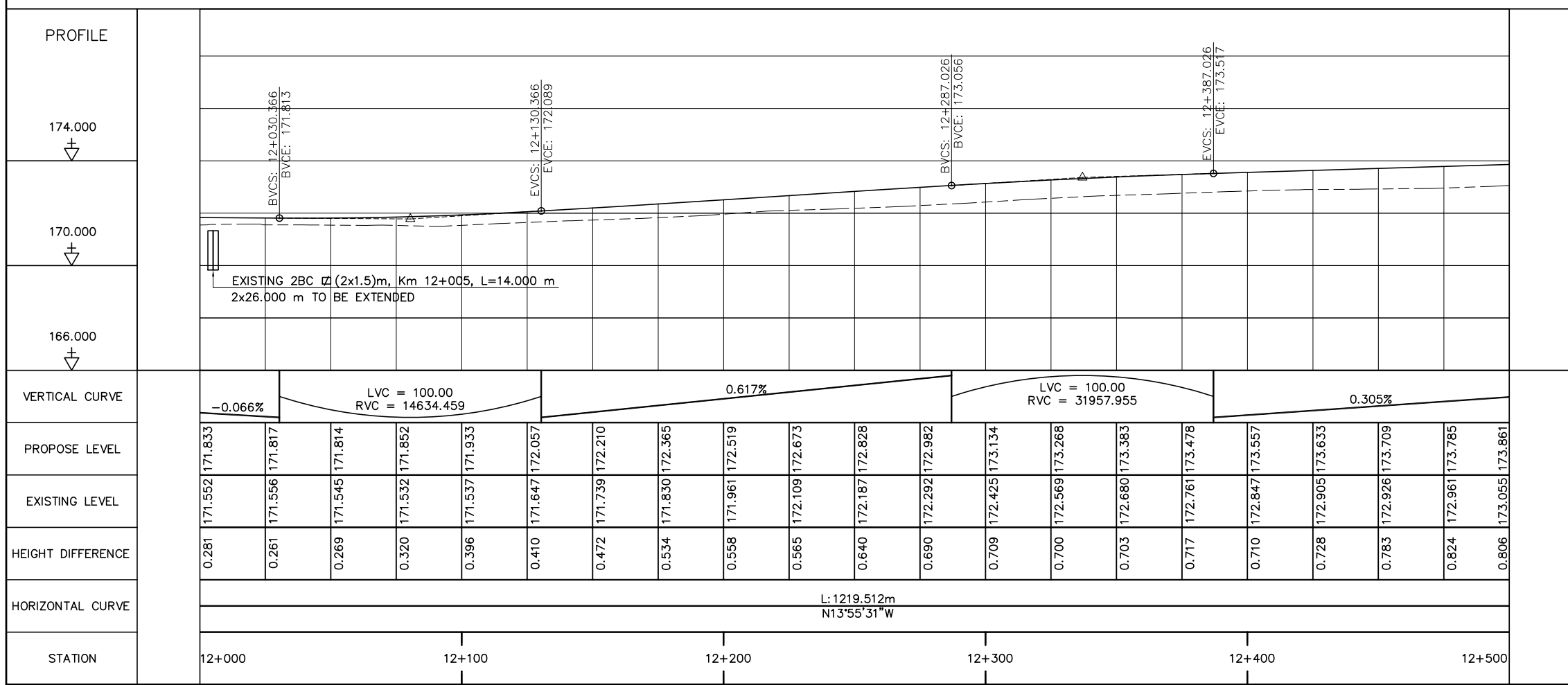
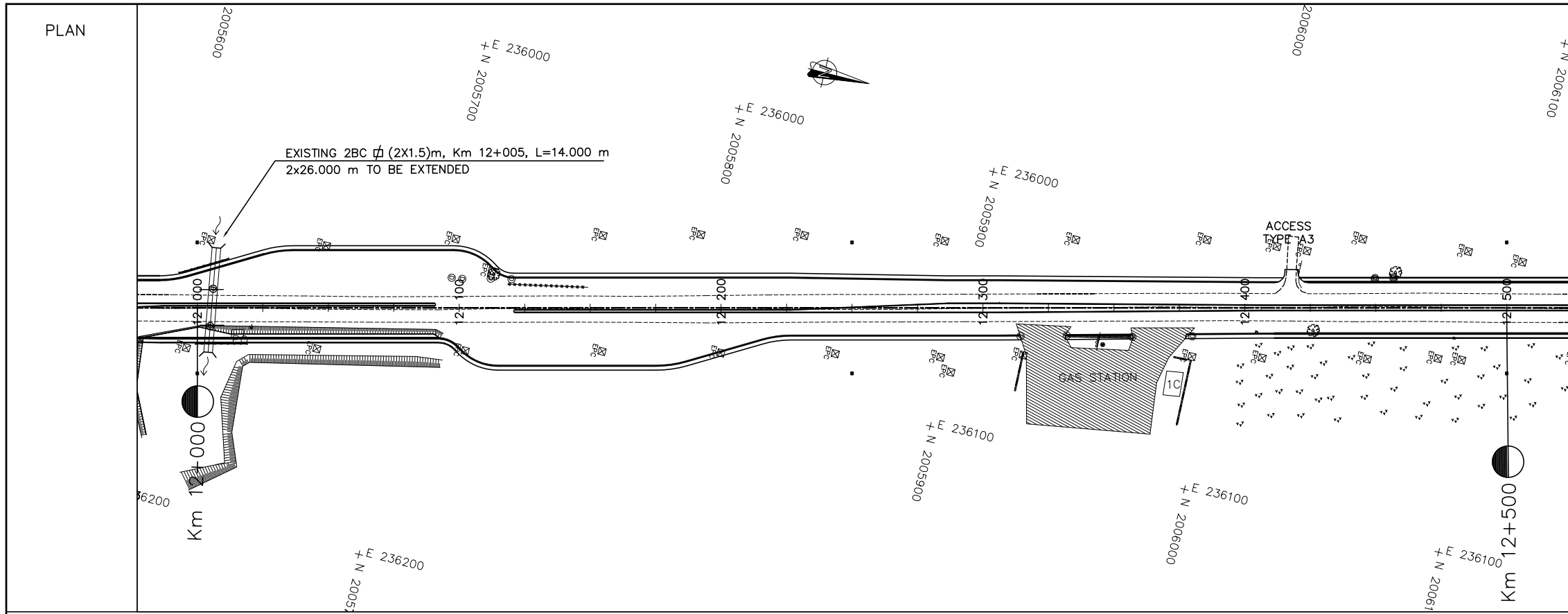
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 11+500 - 12+000

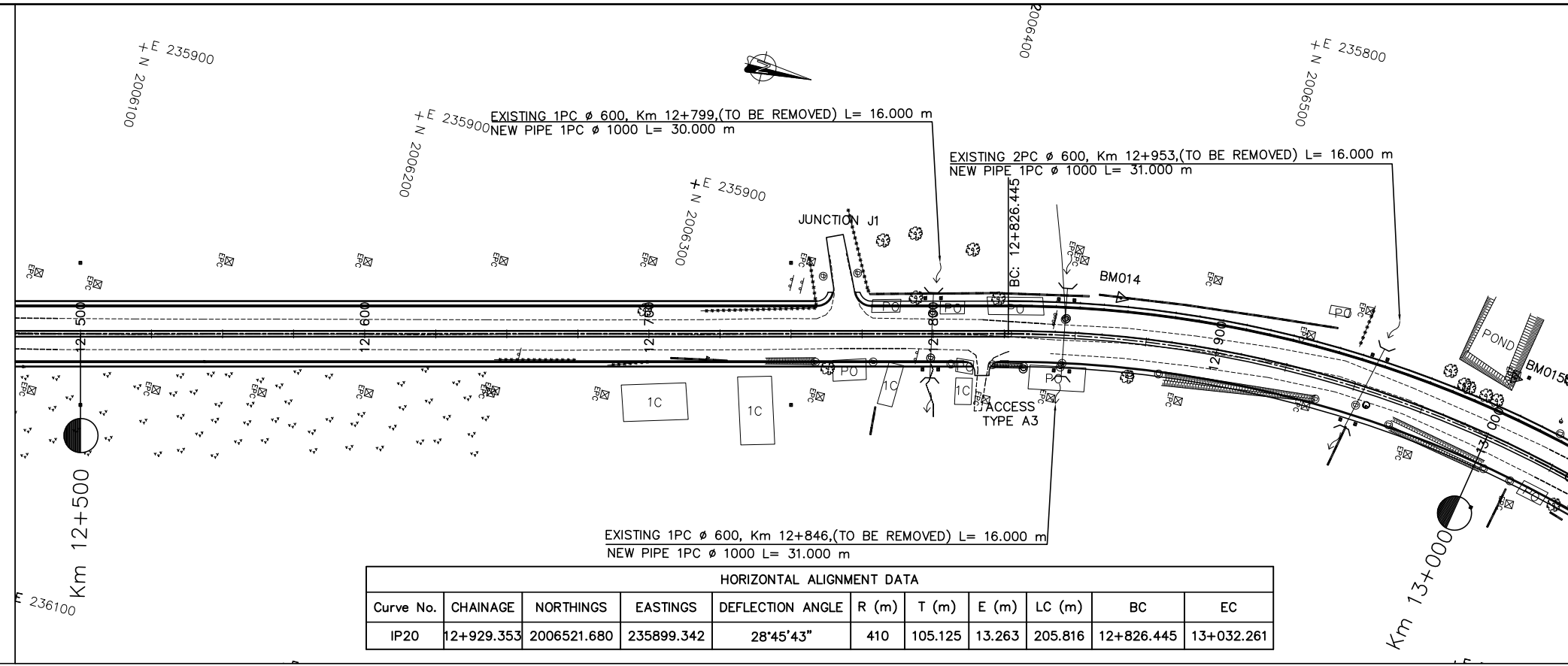
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-024
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 12+000 - 12+500</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17	
						DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-025
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200	

PLAN

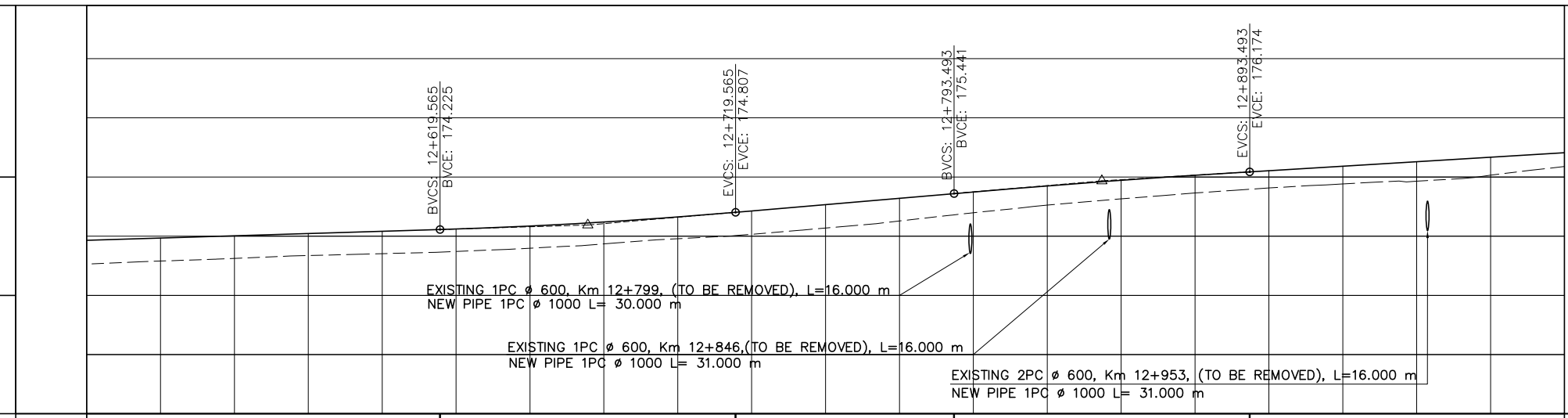


HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP20	12+929.353	2006521.680	235899.342	28°45'43"	410	105.125	13.263	205.816	12+826.445	13+032.261

COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM014	2006455.078	235902.921	175.187
BM015	2006596.519	235896.925	176.922

PROFILE



VERTICAL CURVE	0.305%		LVC = 100.00 RVC = 18068.437				0.858%		LVC = 100.00 RVC = 39934.417		0.608%											
PROPOSE LEVEL	173.861	173.938	174.014	174.090	174.166	174.243	174.344	174.479	174.649	174.853	175.068	175.282	175.496	175.699	175.886	176.057	176.213	176.365	176.517	176.669	176.821	
EXISTING LEVEL	173.055	173.159	173.250	173.345	173.409	173.483	173.594	173.739	173.914	174.064	174.275	174.512	174.792	175.049	175.263	175.459	175.628	175.767	175.860	176.061	176.669	176.353
HEIGHT DIFFERENCE	0.806	0.778	0.764	0.744	0.757	0.760	0.750	0.740	0.736	0.789	0.793	0.770	0.704	0.650	0.623	0.598	0.585	0.598	0.657	0.608	0.468	0.468
HORIZONTAL CURVE	L: 1219.512m N13°55'31"W											R=410.000m LC=205.816m										
STATION	12+500	12+600				12+700				12+800				12+900				13+000				

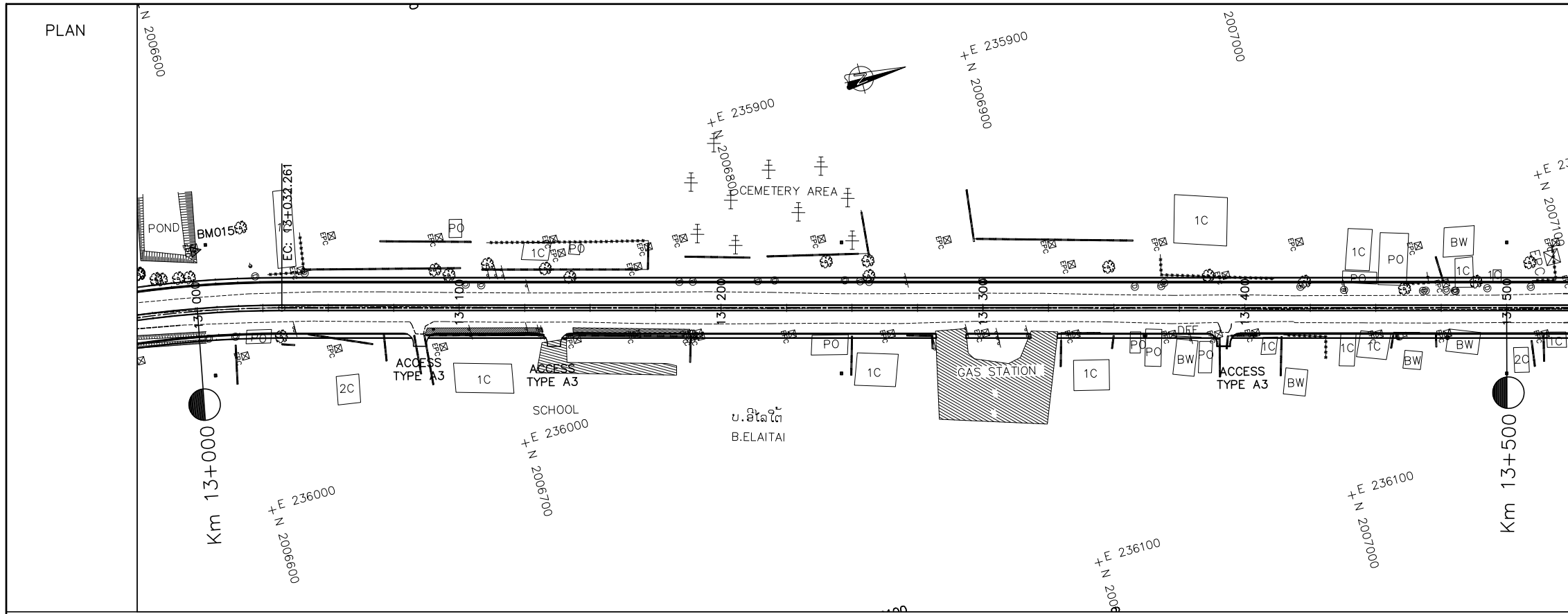
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

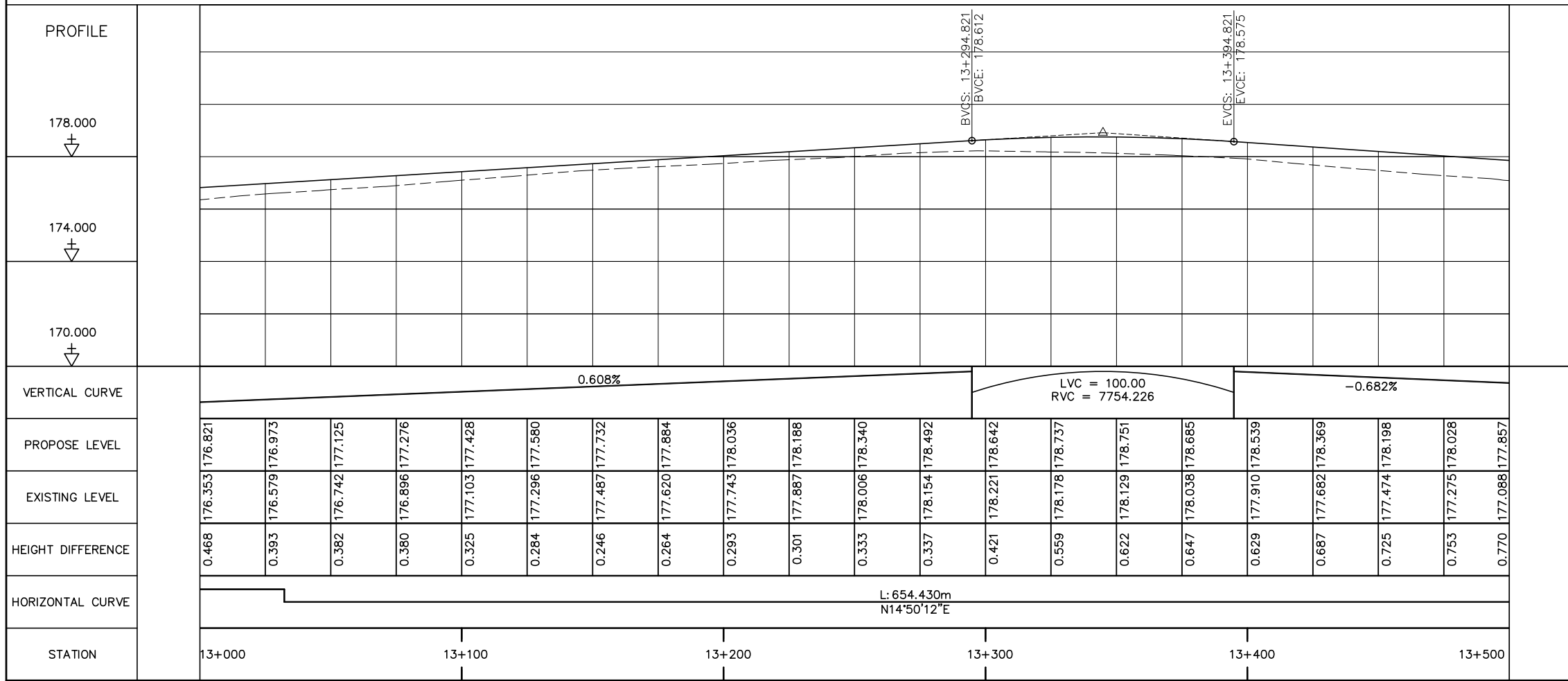
PLAN AND PROFILE  
 Km 12+500 - 13+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-026
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



**COORDINATE**

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM014	2006455.078	235902.921	175.187
BM015	2006596.519	235896.925	176.922



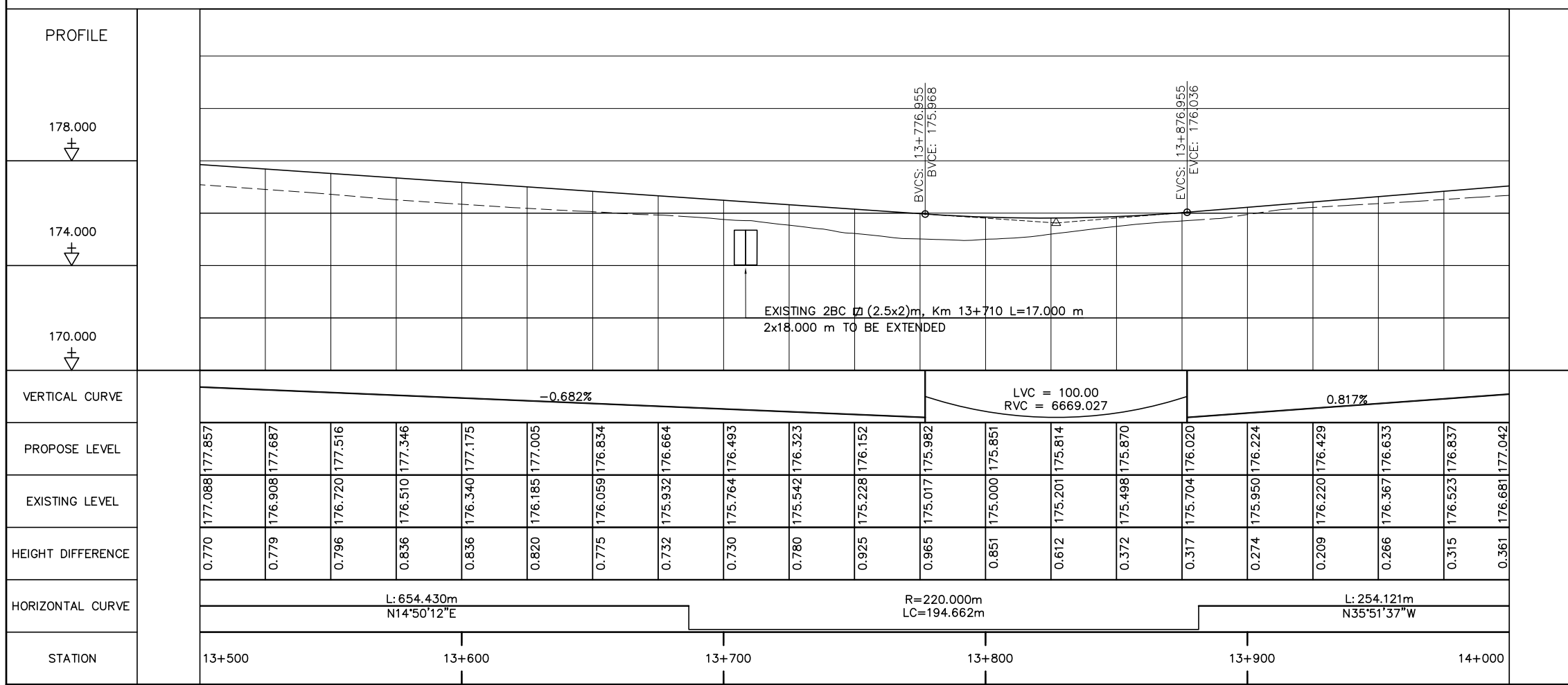
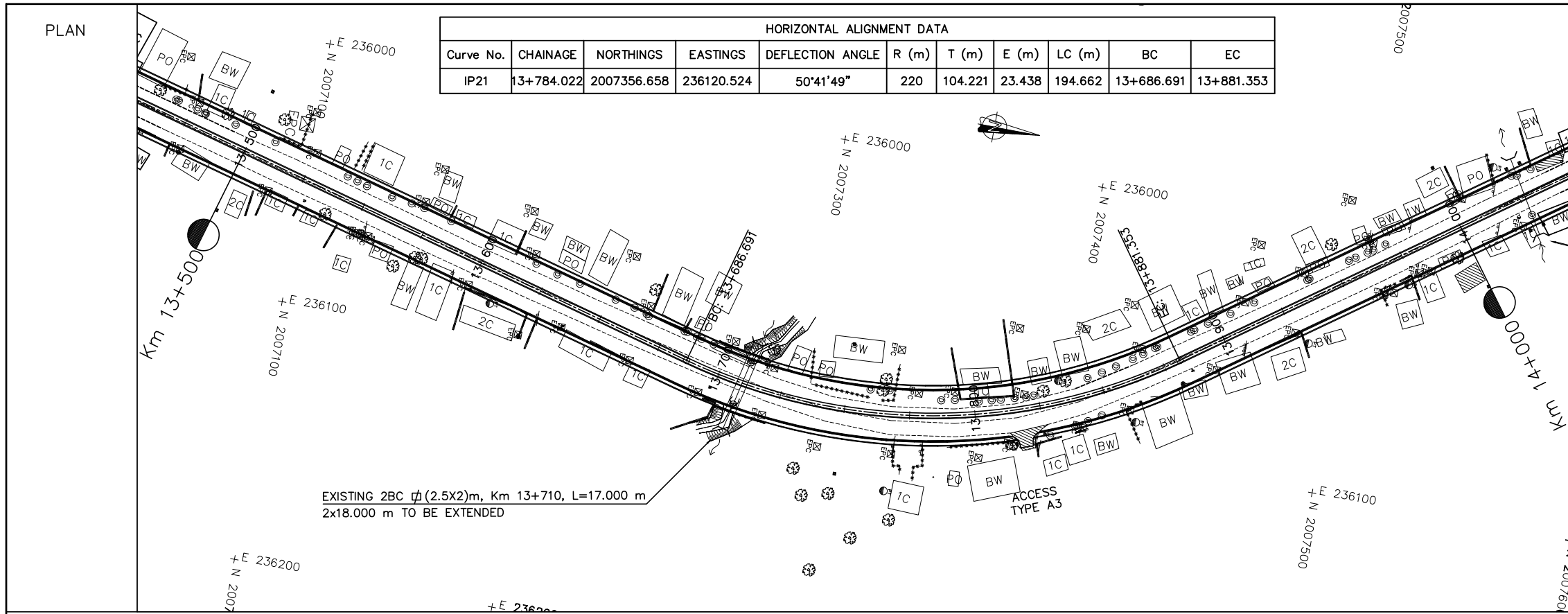
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

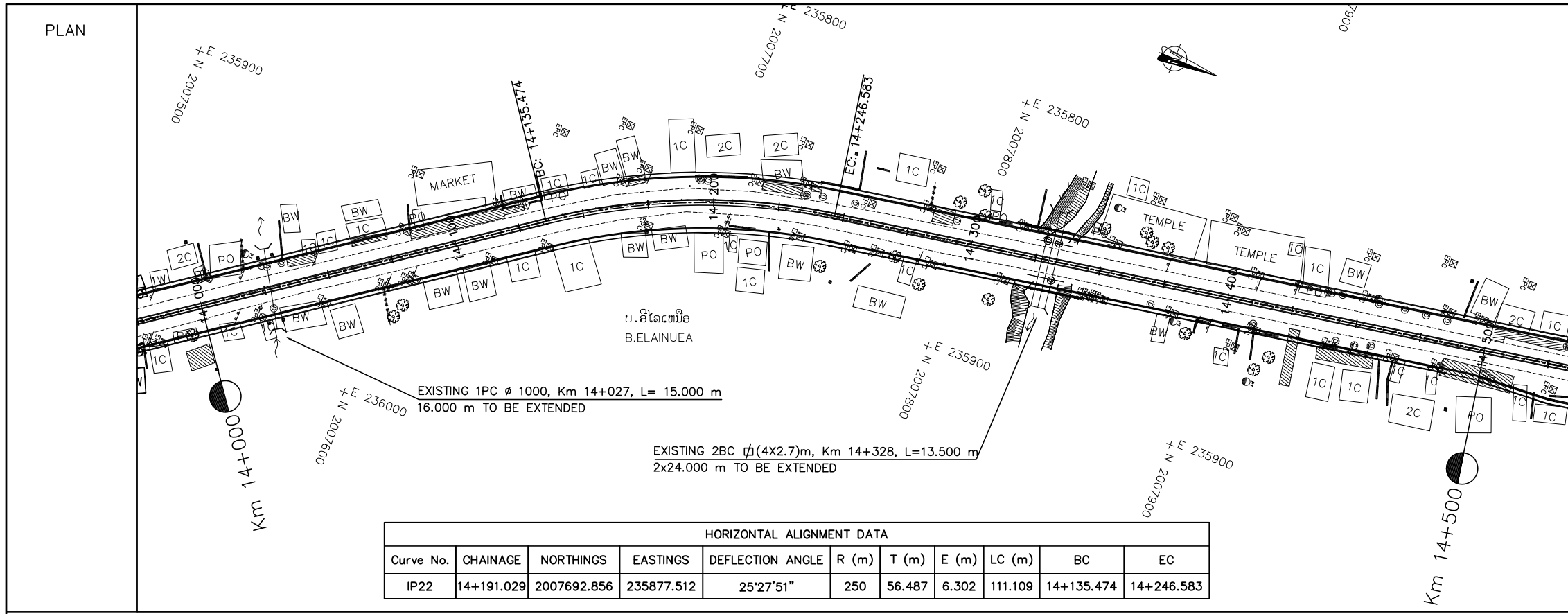
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 13+000 - 13+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-027
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200

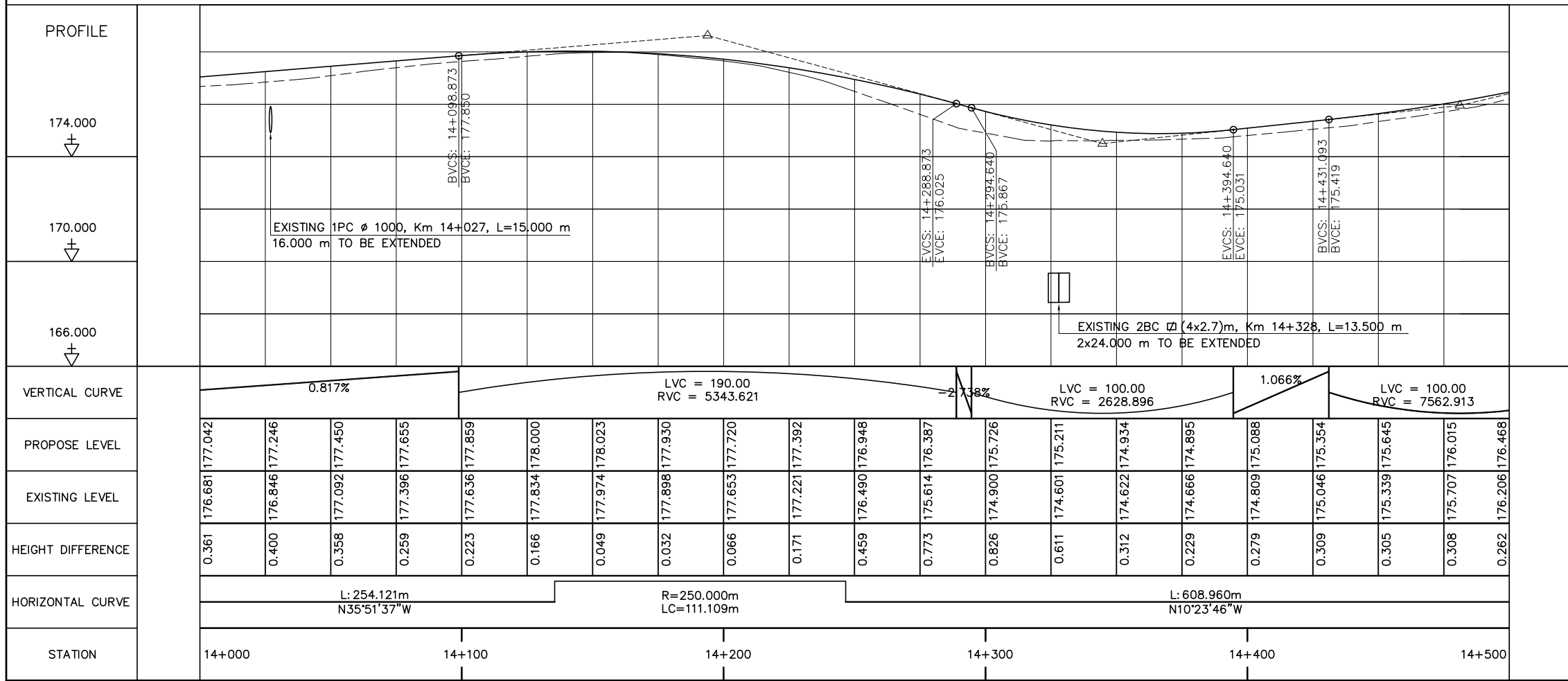


- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<p>PLAN AND PROFILE Km 13+500 - 14+000</p>					DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP22	14+191.029	2007692.856	235877.512	25°27'51"	250	56.487	6.302	111.109	14+135.474	14+246.583



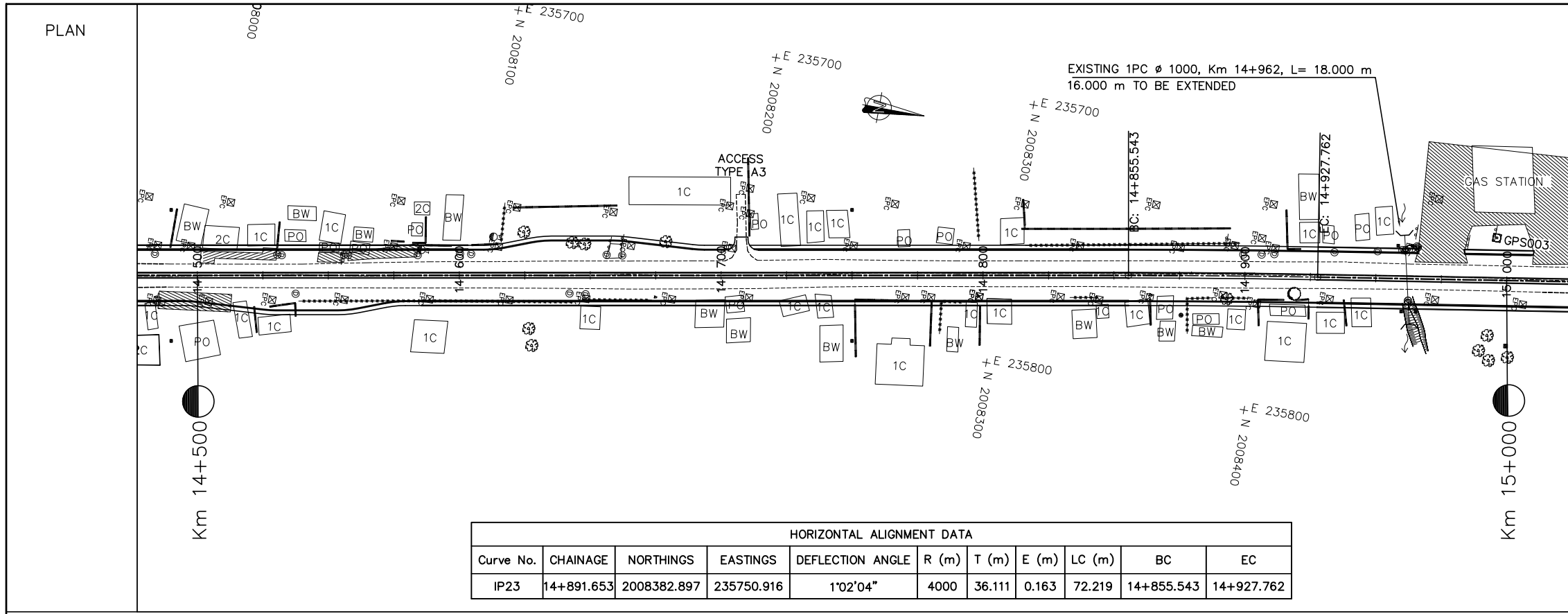
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

PLAN AND PROFILE  
Km 14+000 - 14+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-029
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200

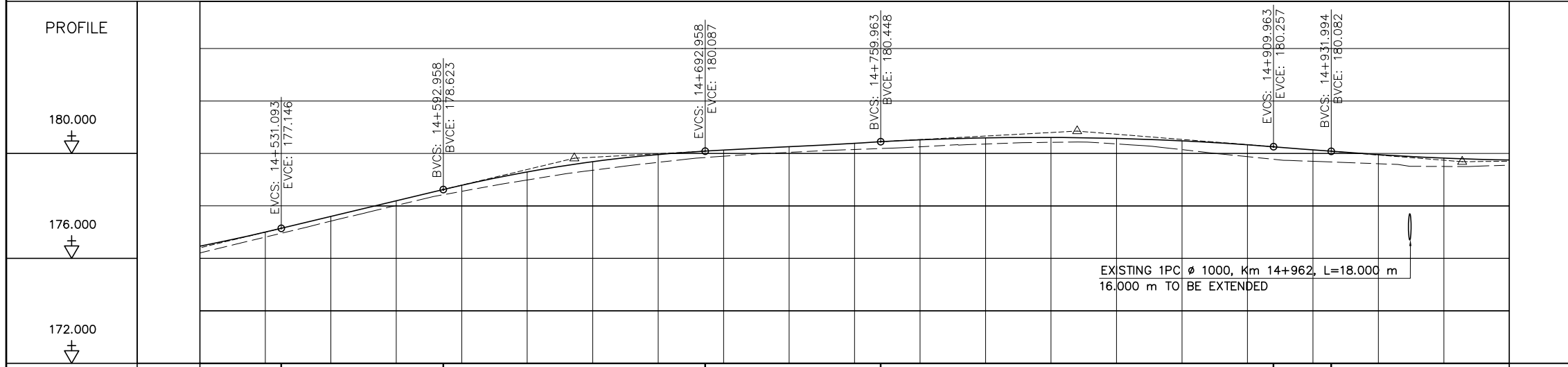


COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
GPS003	2008483.165	235717.978	180.464

**HORIZONTAL ALIGNMENT DATA**

Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP23	14+891.653	2008382.897	235750.916	1°02'04"	4000	36.111	0.163	72.219	14+855.543	14+927.762



VERTICAL CURVE	2.388%		LVC = 100.00 RVC = 5407.618				0.539%		LVC = 150.00 RVC = 11265.025			-0.793%		LVC = 100.00 RVC = 11196.344									
PROPOSE LEVEL	176.468	177.003	177.598	178.195	178.787	179.294	179.685	179.960	180.125	180.259	180.394	180.519	180.592	180.610	180.573	180.480	180.331	180.138	179.954	179.824	179.551	179.750	
EXISTING LEVEL	176.206	176.811	177.421	178.020	178.555	178.990	179.360	179.661	179.894	180.041	180.151	180.254	180.359	180.424	180.363	180.145	179.877	179.700	179.607	179.504	179.504	179.551	
HEIGHT DIFFERENCE	0.262	0.192	0.177	0.175	0.232	0.304	0.324	0.299	0.230	0.218	0.243	0.264	0.233	0.187	0.210	0.335	0.454	0.438	0.347	0.320	0.199	0.199	
HORIZONTAL CURVE	L: 608.960m N10°23'46"W										R=4000.000m LC=72.219m				L: 796.019m N9°21'42"W								
STATION	14+500			14+600					14+700														15+000

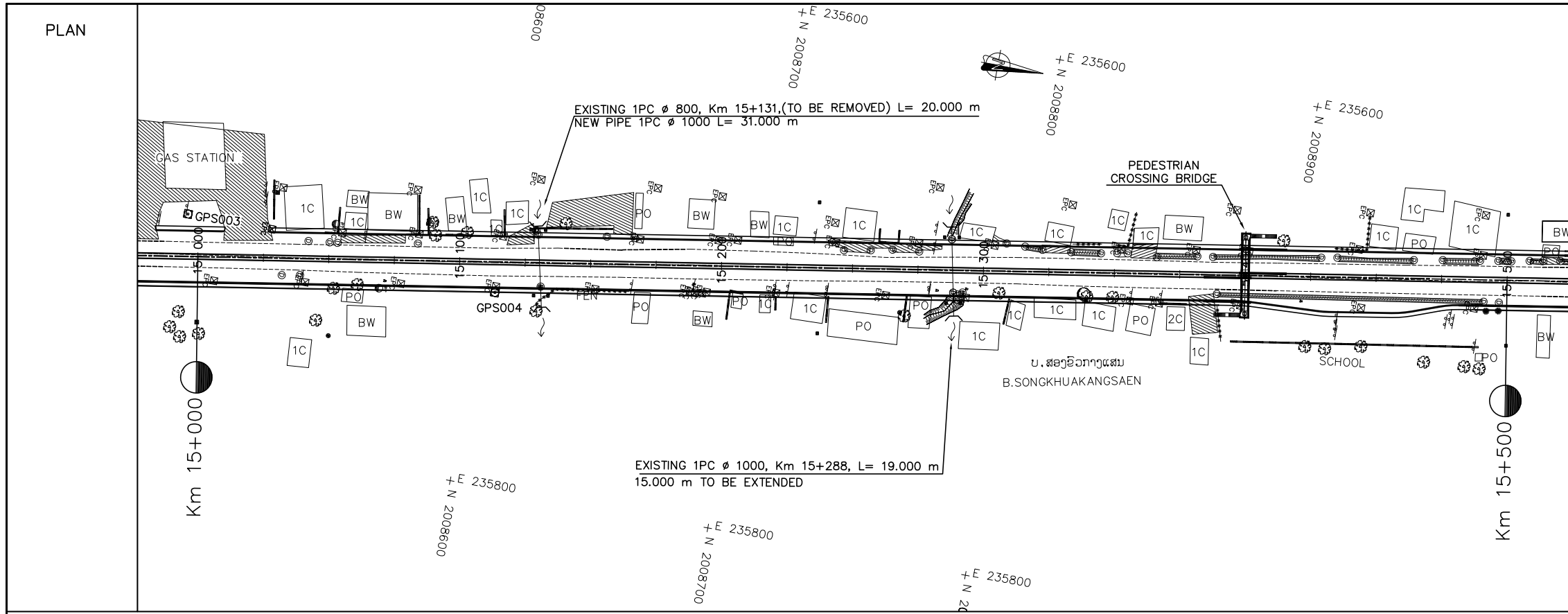
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

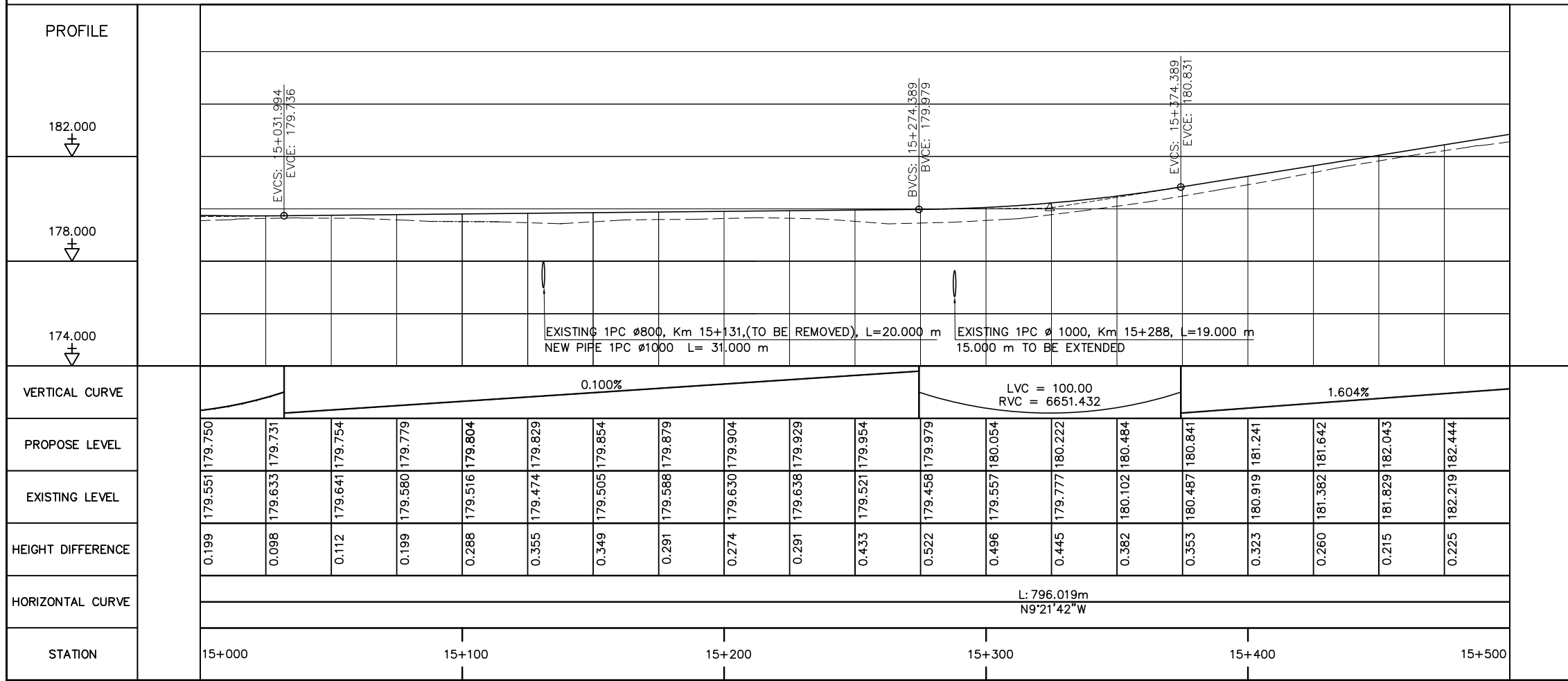
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 14+500 - 15+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-030
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



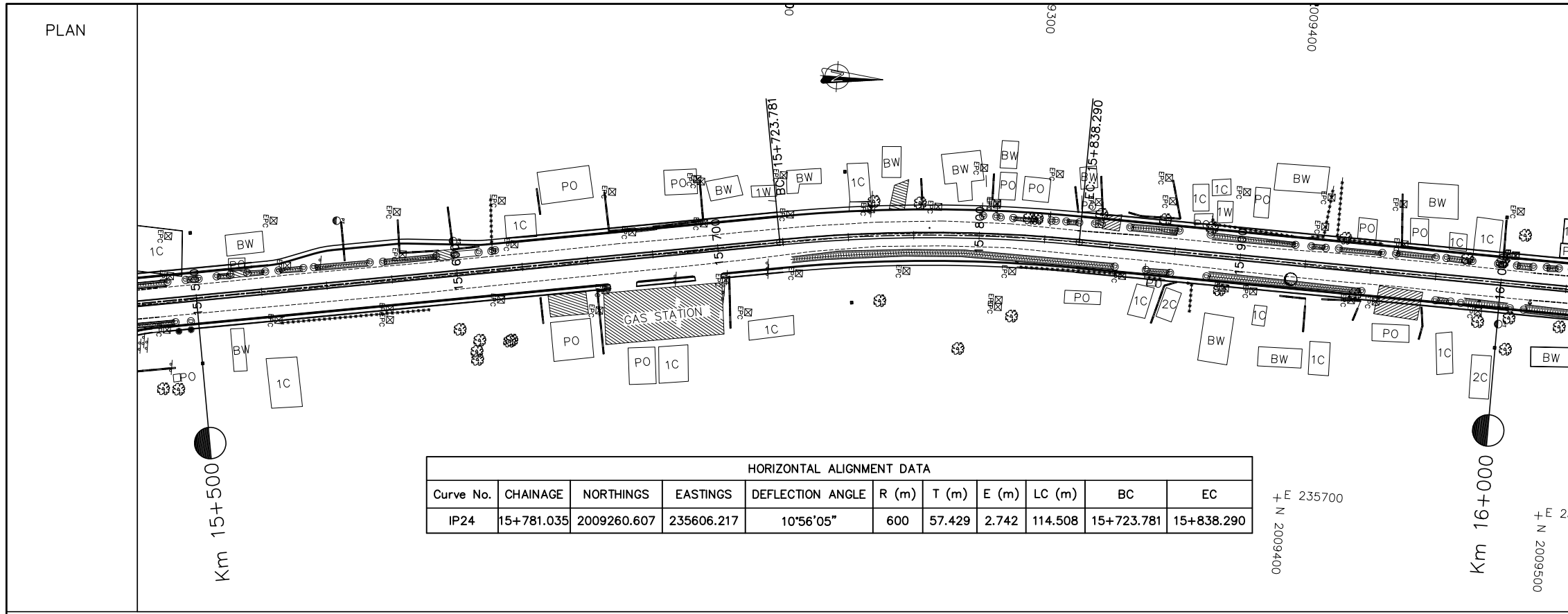
COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
GPS003	2008483.165	235717.978	180.464
GPS004	2008603.812	235726.291	179.256

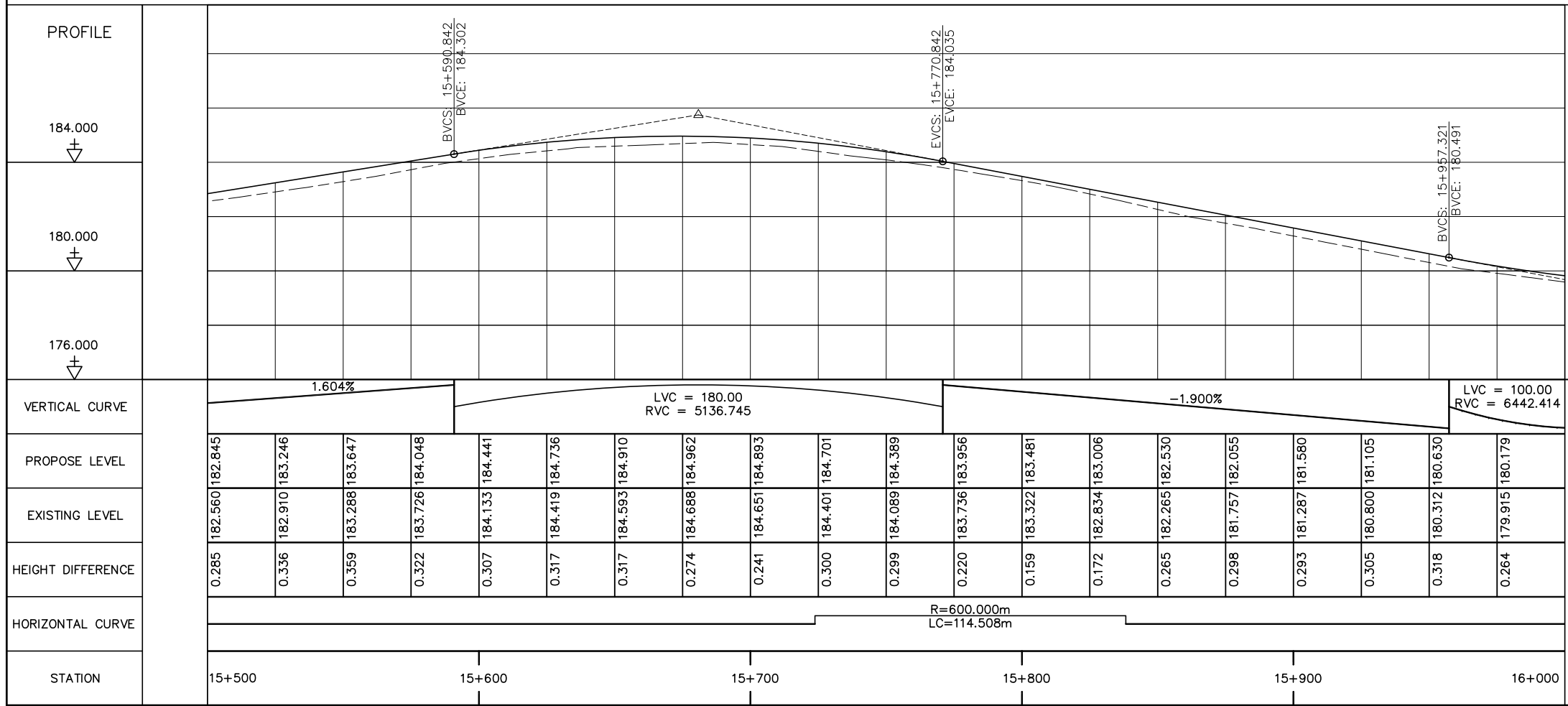


- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<b>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</b>		REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	<b>PLAN AND PROFILE Km 15+000 - 15+500</b>						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
							CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-031
							APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



HORIZONTAL ALIGNMENT DATA										
Curve No.	CHAINAGE	NORTHINGS	EASTINGS	DEFLECTION ANGLE	R (m)	T (m)	E (m)	LC (m)	BC	EC
IP24	15+781.035	2009260.607	235606.217	10°56'05"	600	57.429	2.742	114.508	15+723.781	15+838.290

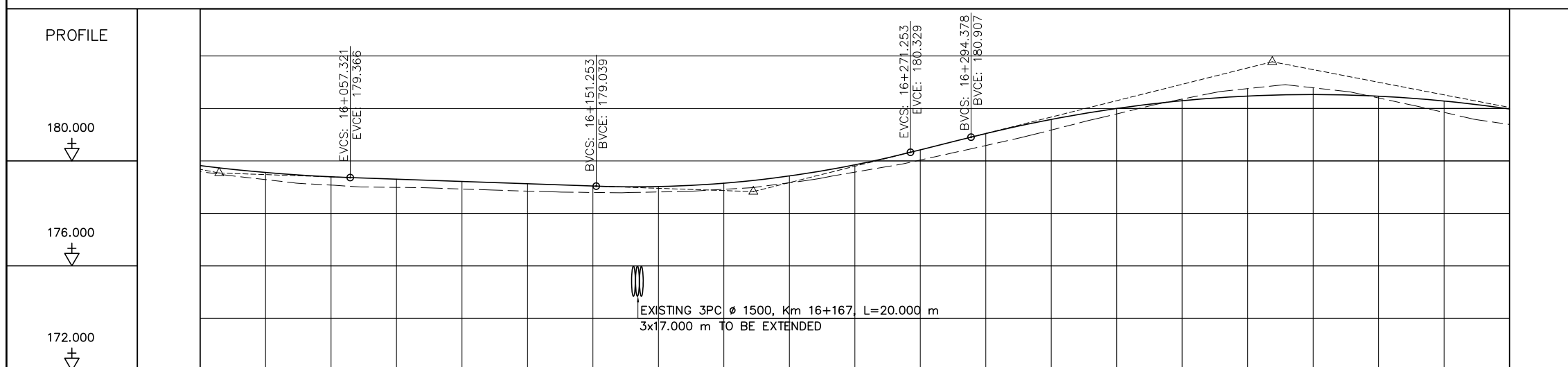
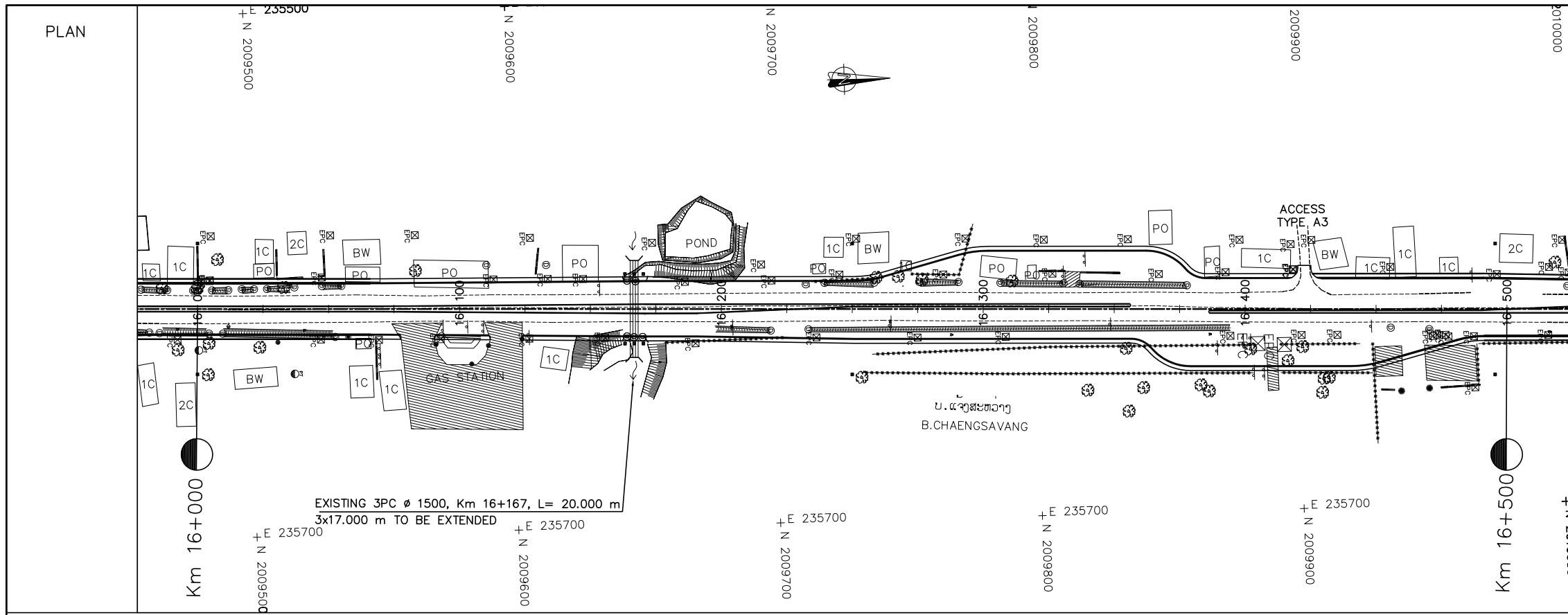


- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 15+500 - 16+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
				DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
				CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-032
				APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



VERTICAL CURVE	LVC = 100.00 RVC = 6442.414		-0.348%		LVC = 120.00 RVC = 4215.872		2.498%		LVC = 230.00 RVC = 5201.481											
PROPOSE LEVEL	179.821	179.560	179.396	179.305	179.218	179.131	179.044	179.023	179.151	179.427	179.852	180.423	181.044	181.582	181.999	182.296	182.473	182.530	182.466	182.283
EXISTING LEVEL	179.592	179.288	179.078	178.991	178.929	178.849	178.798	178.817	178.918	179.167	179.573	180.033	180.588	181.177	181.792	182.356	182.756	182.788	182.399	181.849
HEIGHT DIFFERENCE	0.229	0.273	0.318	0.314	0.289	0.281	0.245	0.207	0.233	0.260	0.279	0.390	0.456	0.405	0.207	-0.060	-0.283	-0.258	0.068	0.434
HORIZONTAL CURVE	L: 776.690m N1°34'24"E																			
STATION	16+000	16+100				16+200				16+300				16+400				16+500		

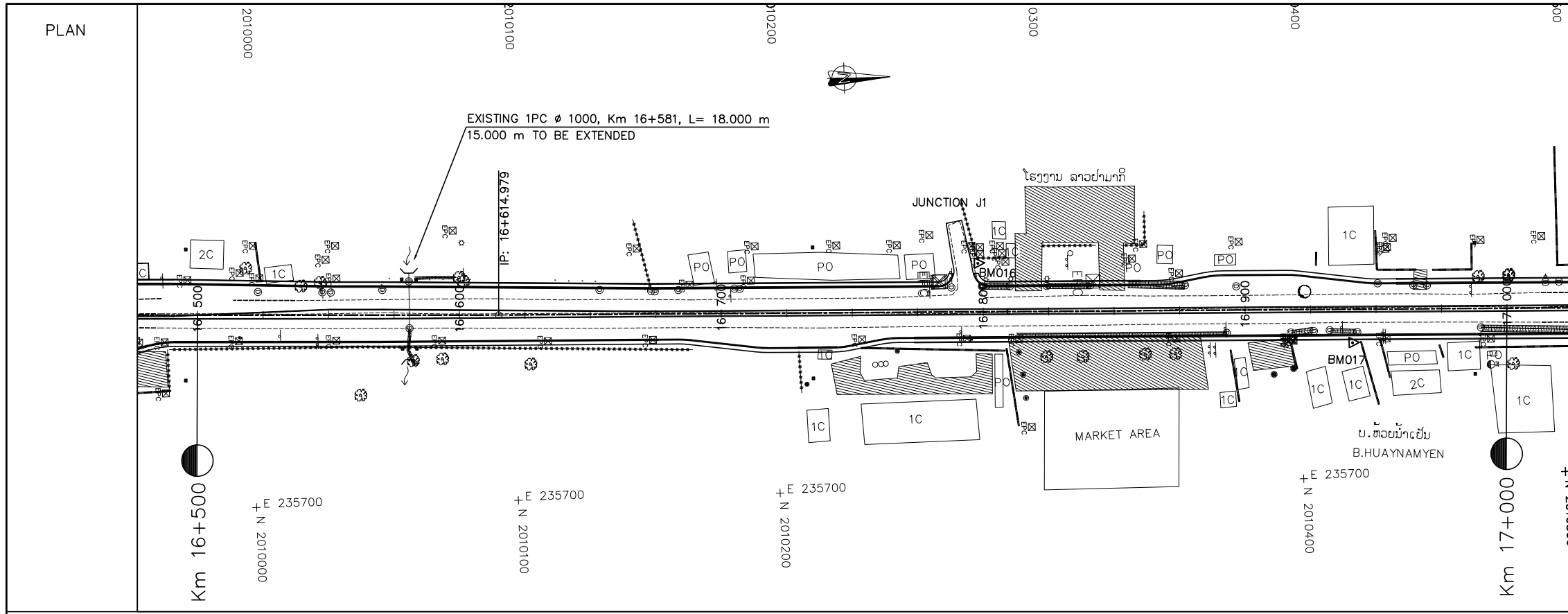
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

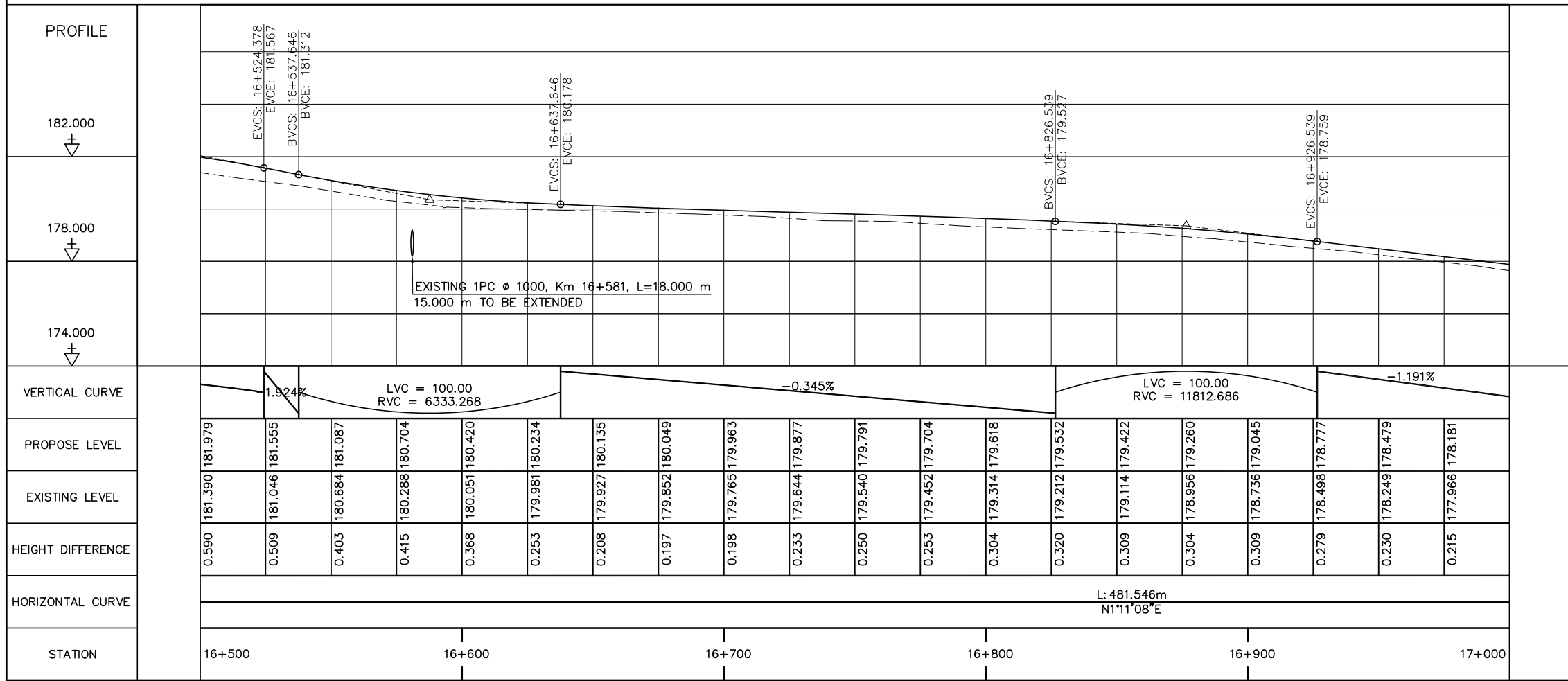
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 16+000 - 16+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-033
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



COORDINATE

COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM016	2010277.864	235614.408	179.582
BM017	2010420.049	235648.655	178.287



NOTES :

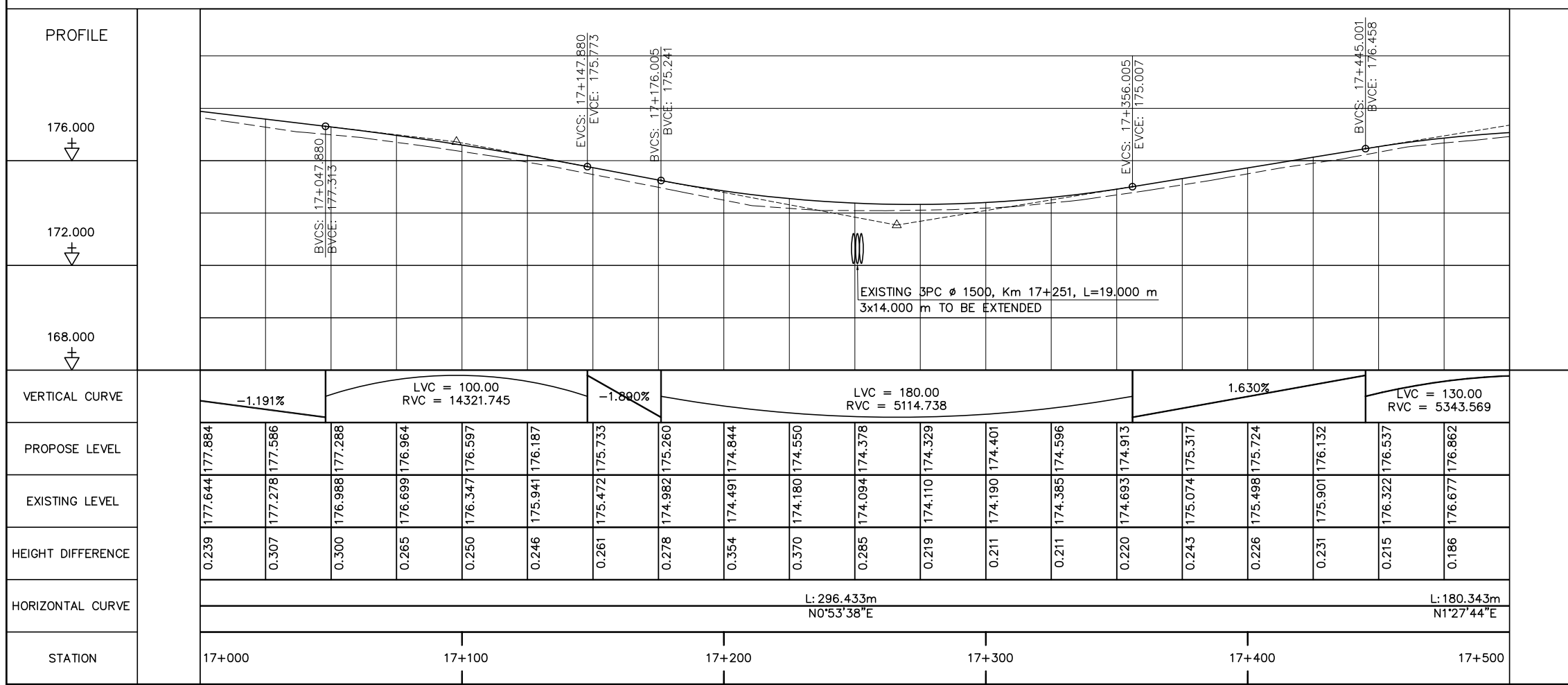
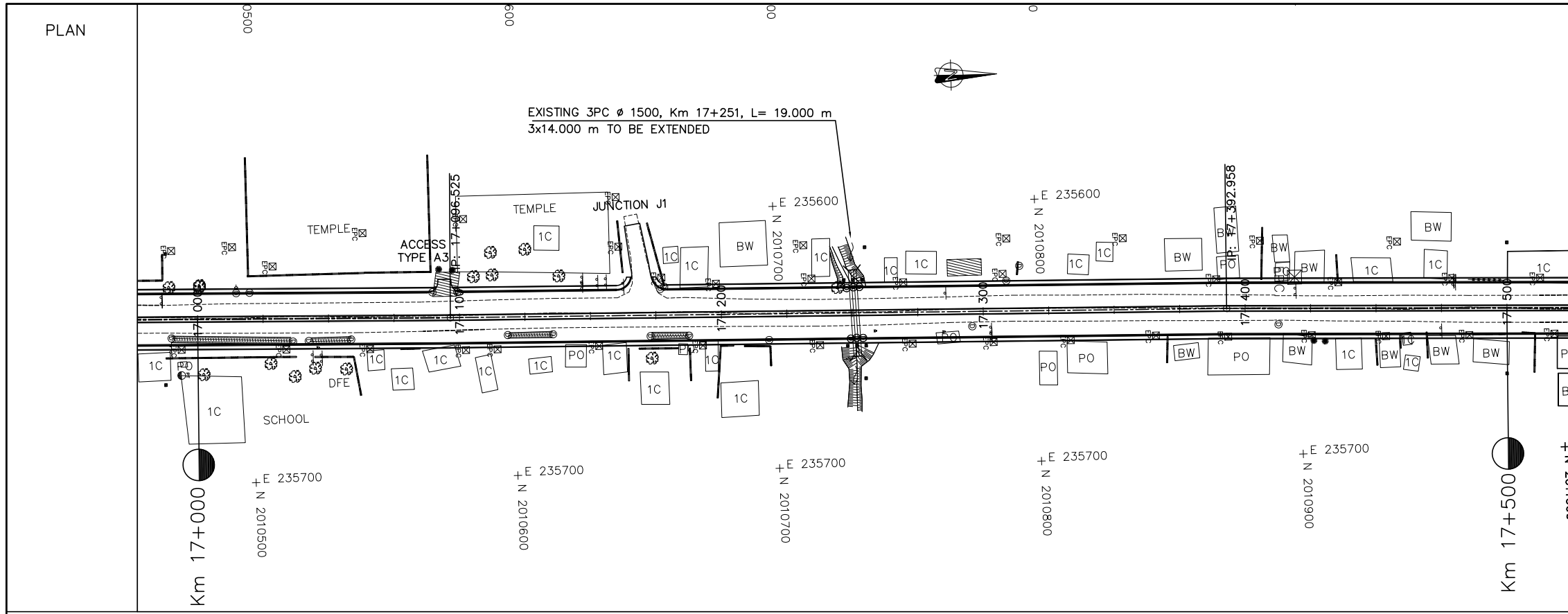
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
- 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
- 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
- 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
- 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
- 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
- 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
- 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 16+500 - 17+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
				DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
				CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-034
				APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



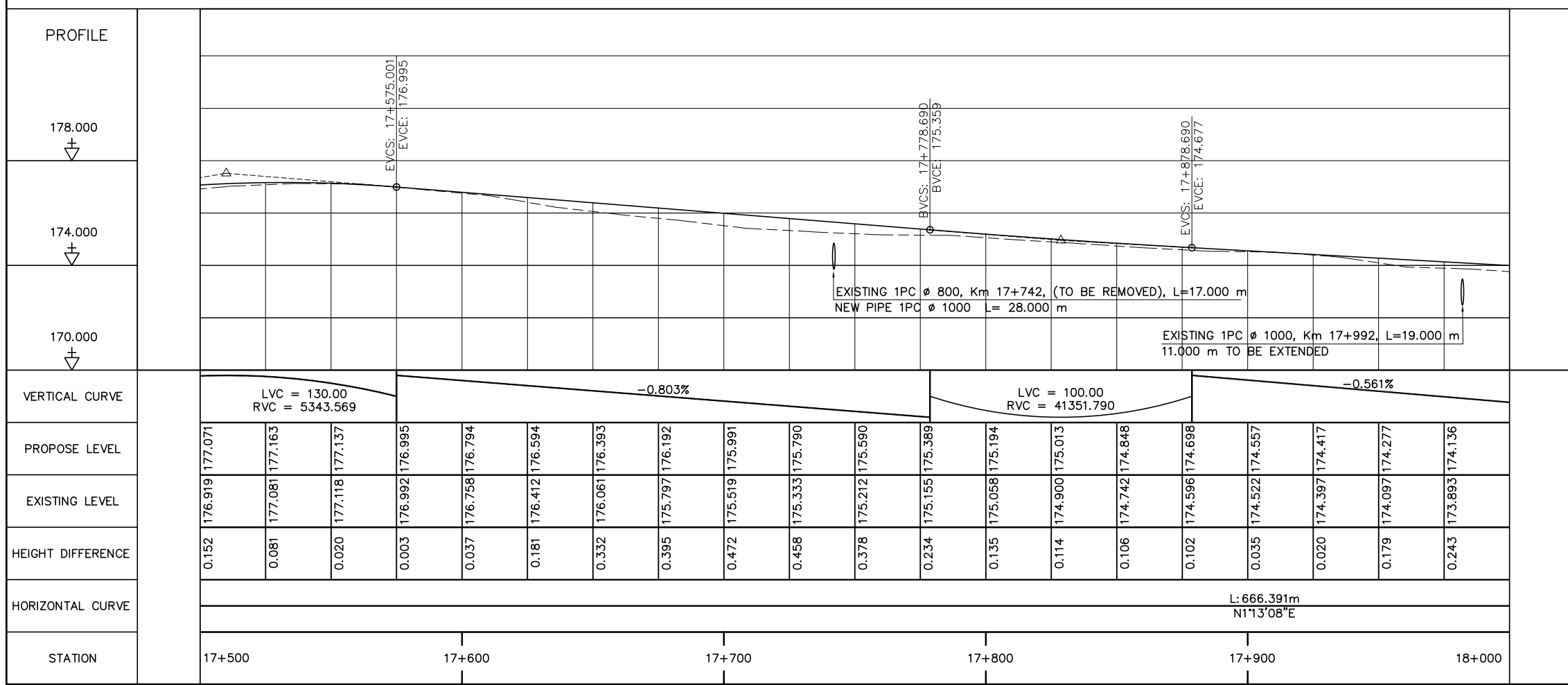
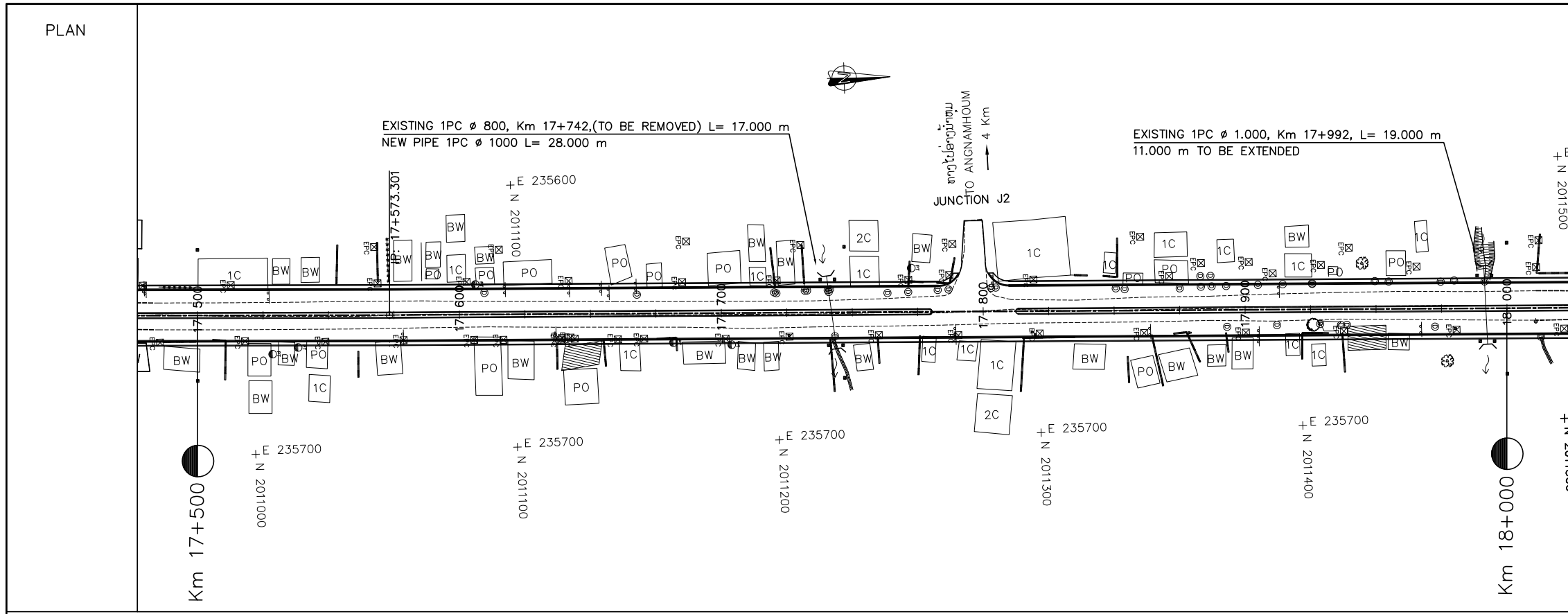
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 17+000 - 17+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-035
			APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



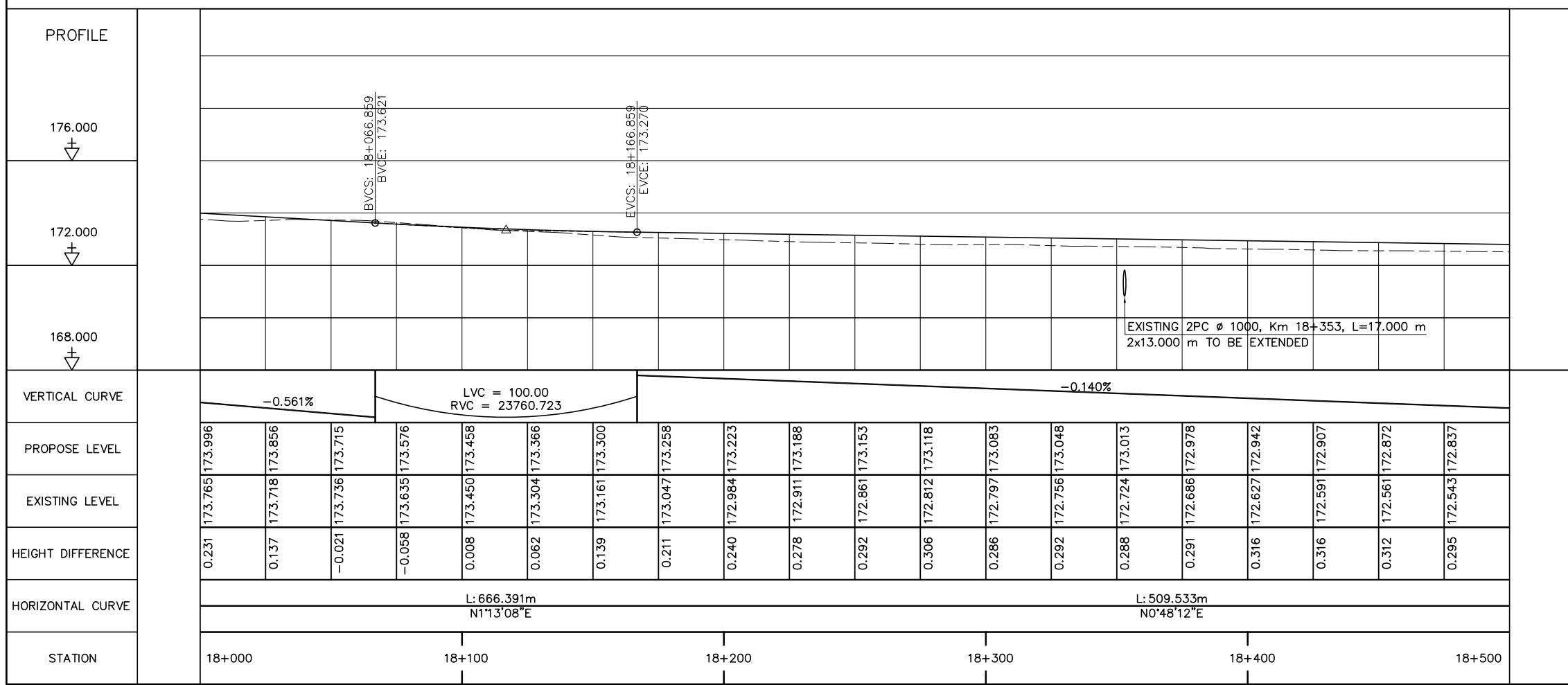
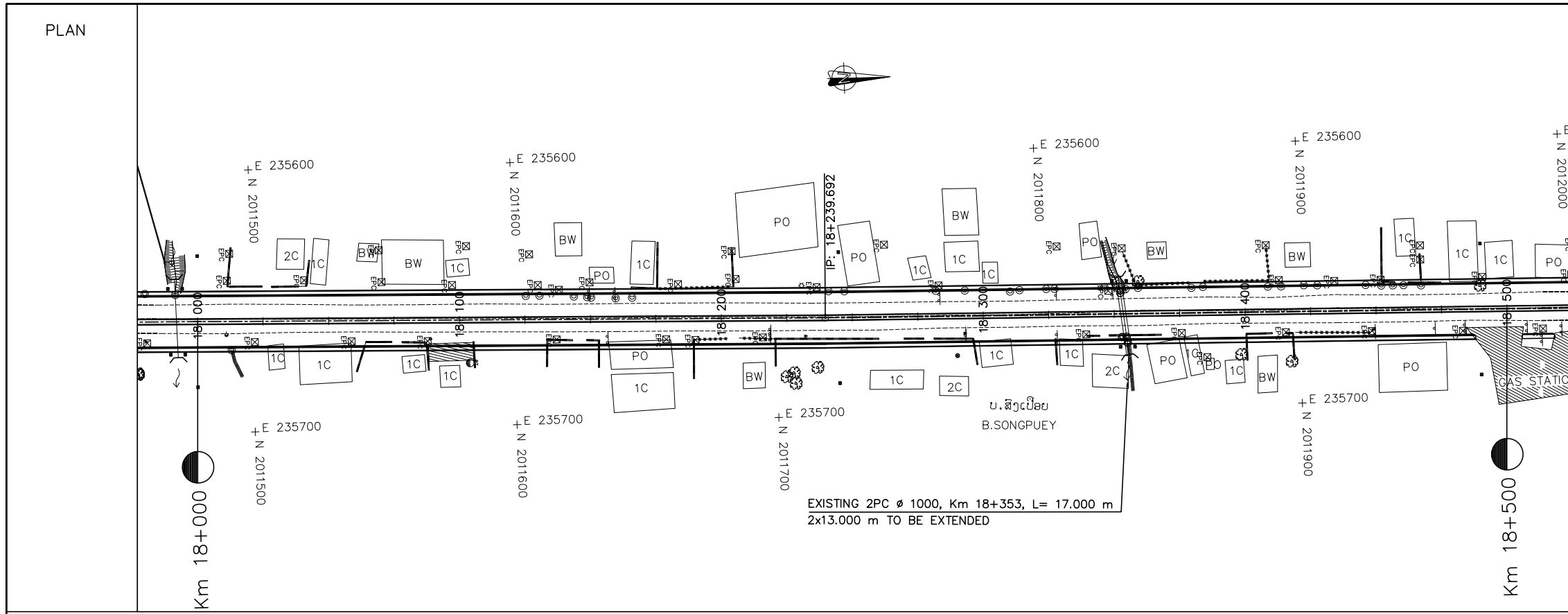
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN AND PROFILE  
Km 17+500 - 18+000

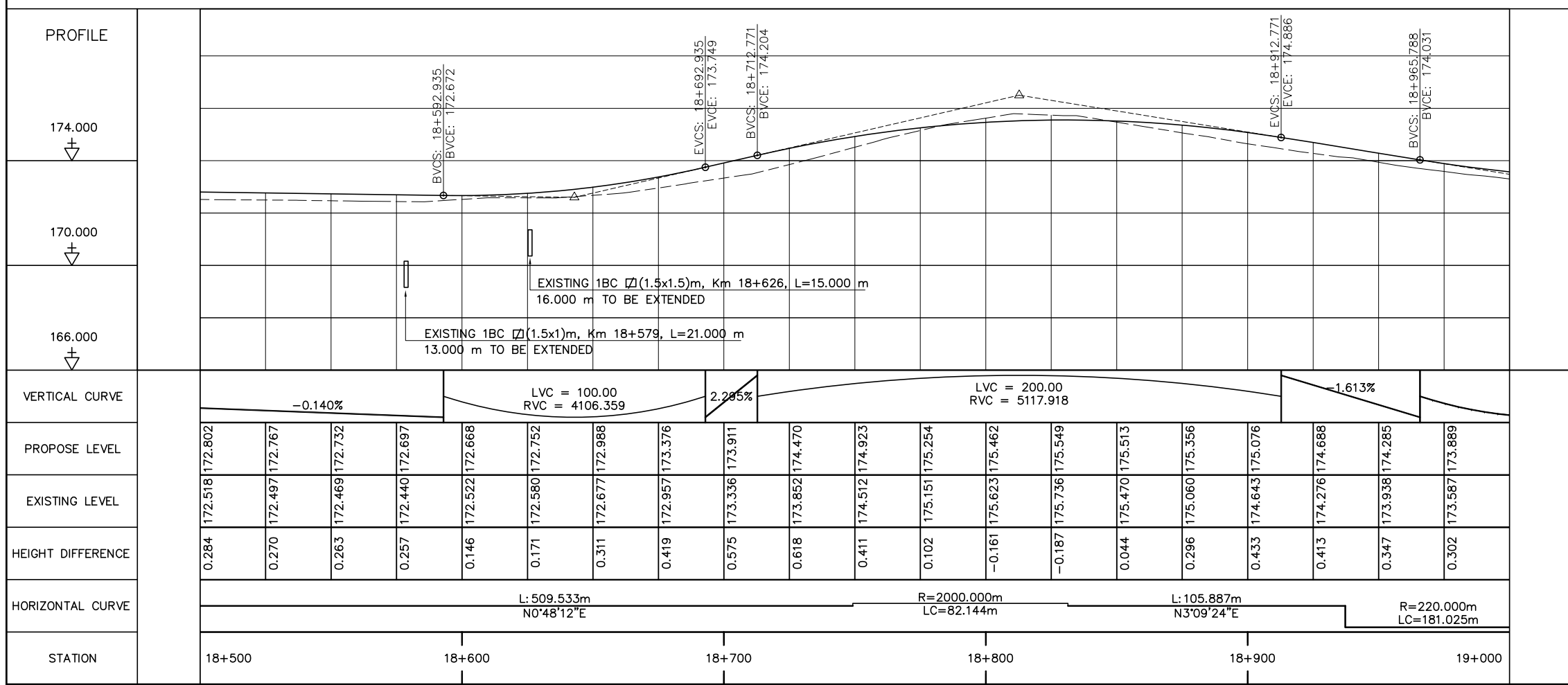
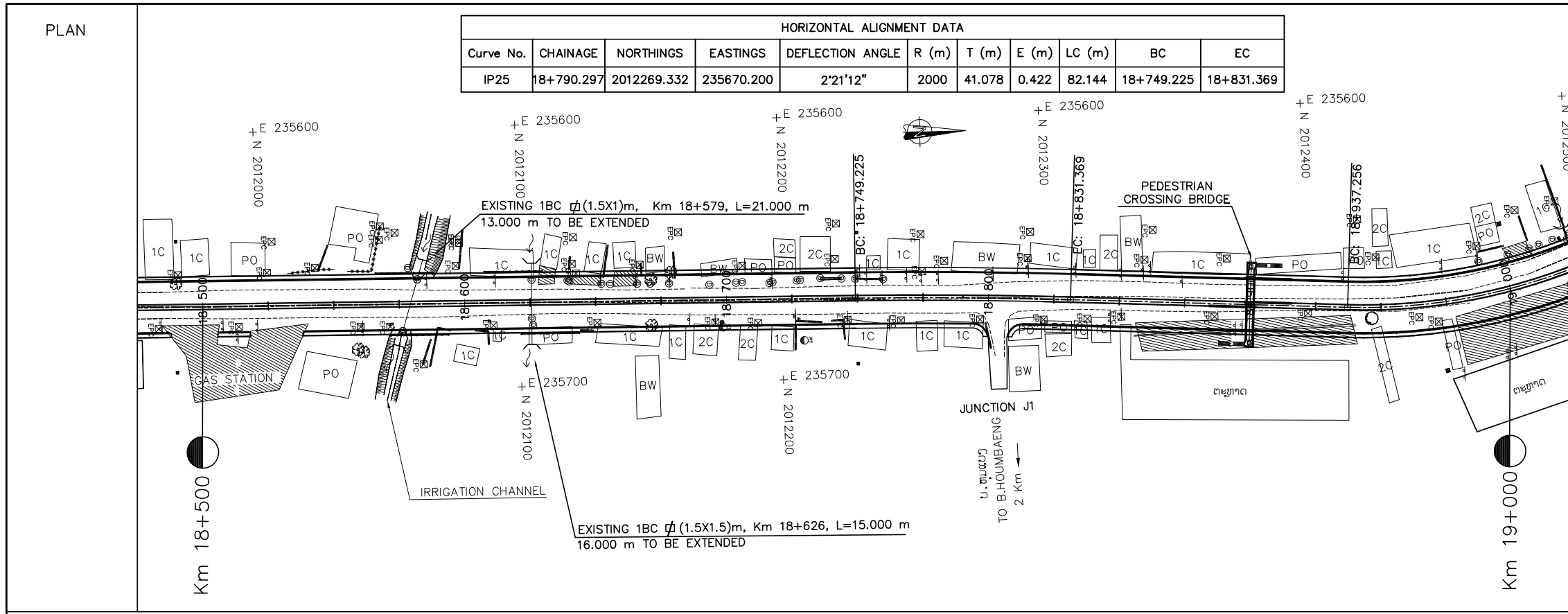
REV.	DATE	DESCRIPTION	APPROVED

NAME	SIGNATURE	LTEC CODE:
DESIGNED Mr. Souksavanh SYPHAKHAM		SD-262-17
CHECKED Mr. Khamphone SORPHABMIXAY		DATE: April, 2018
APPROVED Mr. Vandy VORASACK		DRW No. RPP-036
		SCALE: H=1:2000 V=1:200



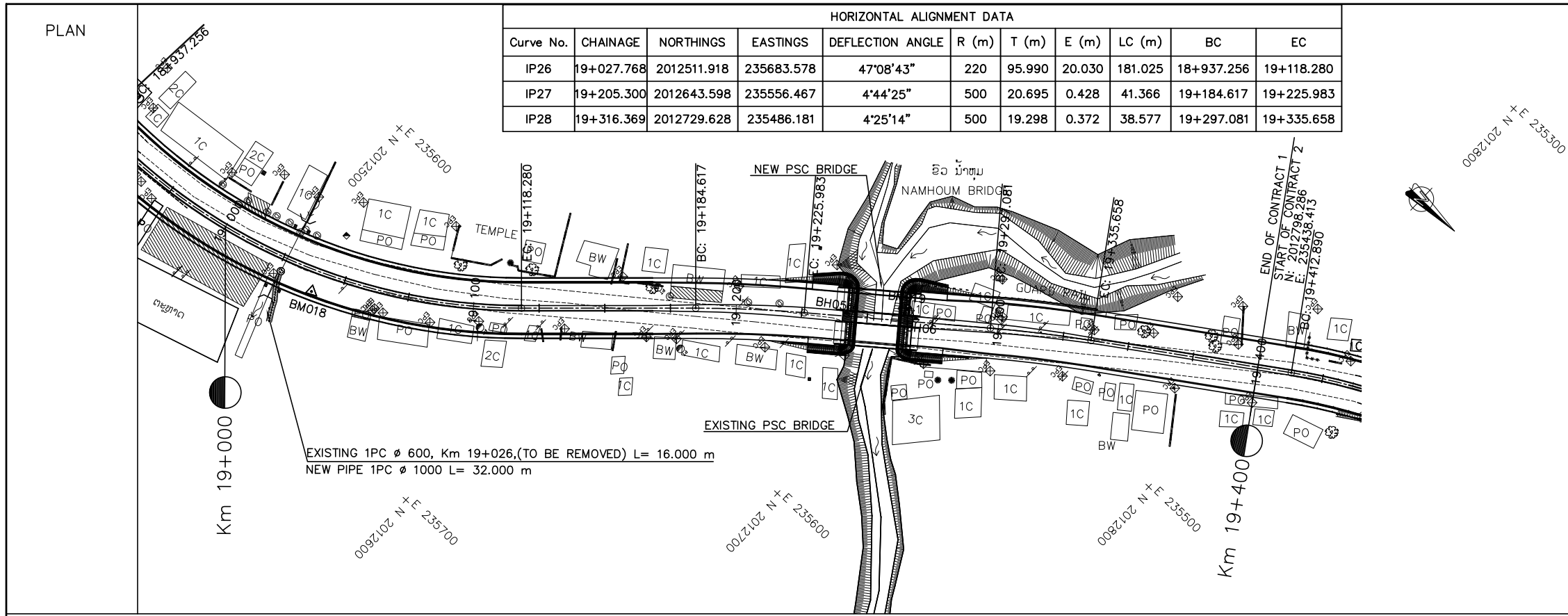
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 18+000 - 18+500</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-037
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200



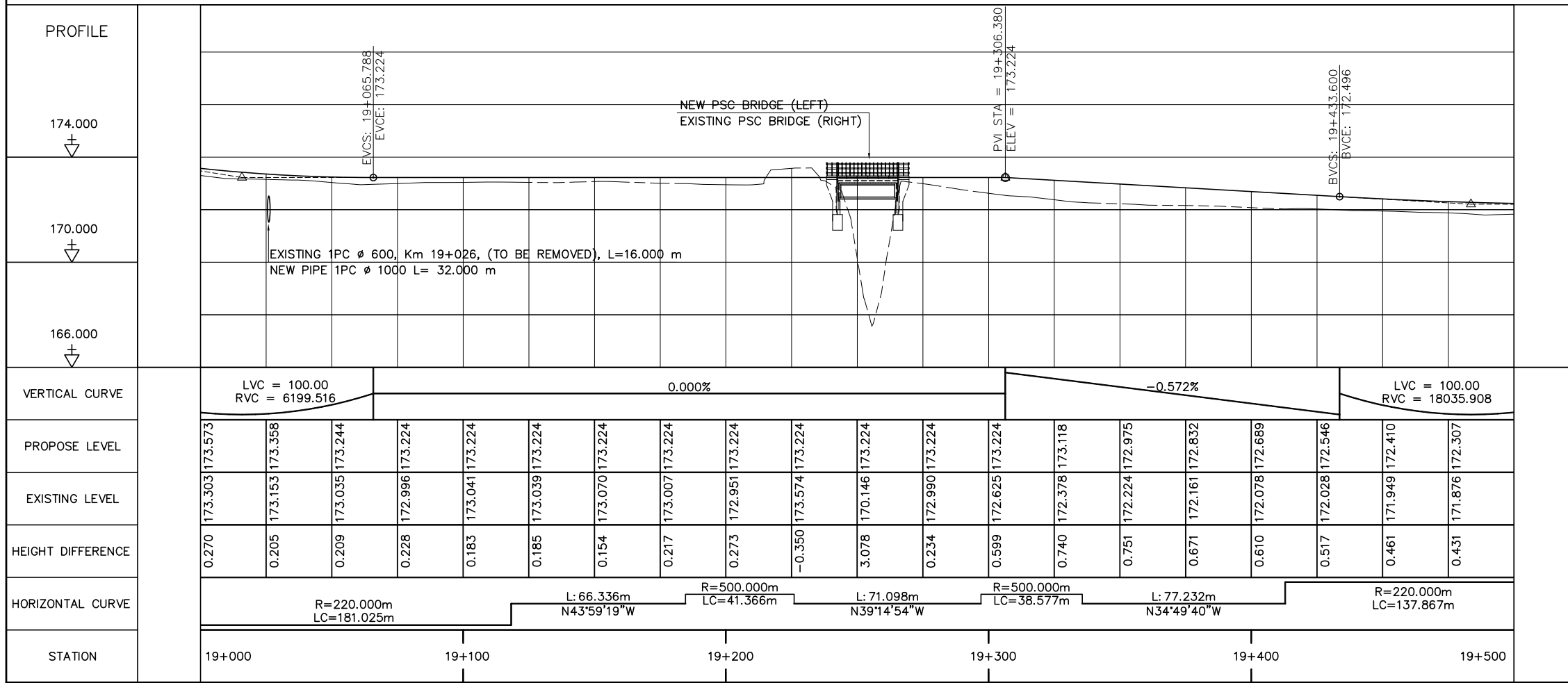
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003,RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 18+500 - 19+000</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17	
						DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. RPP-038
						APPROVED	Mr. Vandy VORASACK		SCALE: H=1:2000 V=1:200



COORDINATE

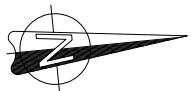
COORDINATE OF GPS AND BM			
No.	X	Y	Z
BM018	2012519.066	235667.868	173.056
BM019	2012688.233	235515.624	172.891



- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS, SEE DRAWING NO. RSA-003, RSA-004
  - 2) DETAILS DESIGN FOR CONCRETE CURBS, FRONTAGE ADJUSTMENTS, TYPICAL JUNCTIONS AND ACCESS DETAILS, SEE STANDARD DRAWINGS.
  - 3) ACCESS TYPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXISTING CONDITION OR AS DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURES AND REQUIREMENTS SEE DRAWINGS No. RTC-001,002.
  - 5) DETAILS OF DRAINAGE SEE DRAINAGE DRAWINGS.
  - 6) ROAD LIGHTING TRAFFIC SIGNS, PAVEMENT MARKING SEE ROAD APPURTENANCE PLAN DRAWINGS.
  - 7) DETAILS OF PARKING BAY AND BUS STOP SEE STANDARD DRAWINGS.
  - 8) DETAILS OF SIDE DITCH SEE LIST OF SIDE DRAINS STRUCTURES.
  - 9) DETAILS OF CULVERTS SEE LIST OF CULVERTS.

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>PLAN AND PROFILE Km 19+000 - 19+400</p>	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: April, 2018
						CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. RPP-039
						APPROVED	Mr. Vandy VORASACK	SCALE: H=1:2000 V=1:200

# SETTING OUT PLANS



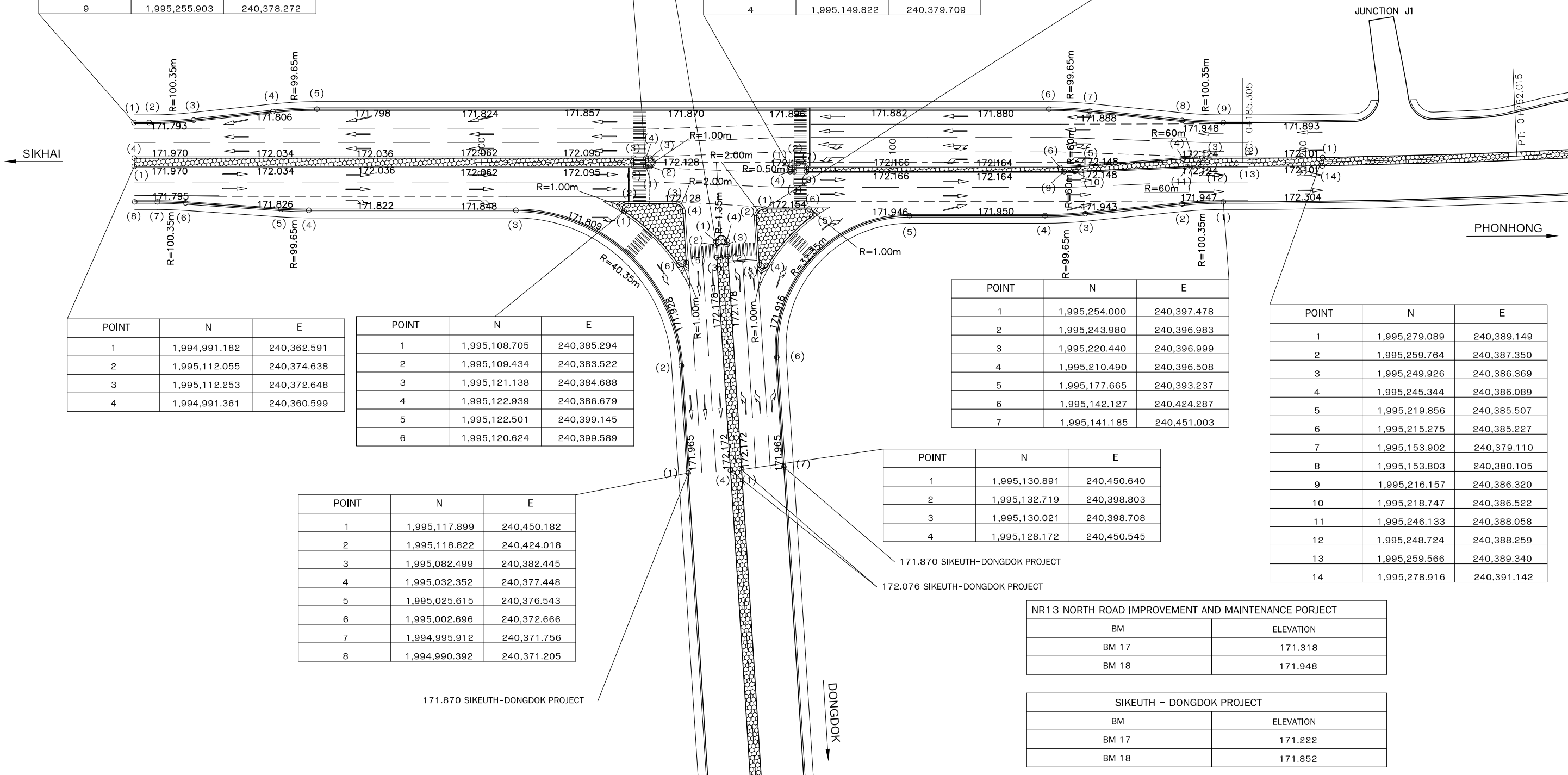
POINT	N	E
1	1,994,992.150	240,351.985
2	1,994,995.847	240,352.353
3	1,995,006.660	240,352.845
4	1,995,026.033	240,352.678
5	1,995,036.770	240,353.166
6	1,995,213.988	240,370.828
7	1,995,223.818	240,372.306
8	1,995,246.004	240,376.784
9	1,995,255.903	240,378.272

POINT	N	E
1	1,995,115.040	240,374.936
2	1,995,116.035	240,375.035
3	1,995,116.234	240,373.045
4	1,995,115.239	240,372.946

POINT	N	E
1	1,995,130.158	240,394.812
2	1,995,130.127	240,395.710
3	1,995,132.825	240,395.805
4	1,995,132.857	240,394.907

POINT	N	E
1	1,995,142.729	240,388.147
2	1,995,140.532	240,390.066
3	1,995,140.128	240,401.514
4	1,995,141.941	240,402.131
5	1,995,153.959	240,391.079
6	1,995,153.546	240,389.225

POINT	N	E
1	1,995,149.922	240,378.714
2	1,995,150.917	240,378.813
3	1,995,150.818	240,379.808
4	1,995,149.822	240,379.709



POINT	N	E
1	1,994,991.182	240,362.591
2	1,995,112.055	240,374.638
3	1,995,112.253	240,372.648
4	1,994,991.361	240,360.599

POINT	N	E
1	1,995,108.705	240,385.294
2	1,995,109.434	240,383.522
3	1,995,121.138	240,384.688
4	1,995,122.939	240,386.679
5	1,995,122.501	240,399.145
6	1,995,120.624	240,399.589

POINT	N	E
1	1,995,117.899	240,450.182
2	1,995,118.822	240,424.018
3	1,995,082.499	240,382.445
4	1,995,032.352	240,377.448
5	1,995,025.615	240,376.543
6	1,995,002.696	240,372.666
7	1,994,995.912	240,371.756
8	1,994,990.392	240,371.205

POINT	N	E
1	1,995,254.000	240,397.478
2	1,995,243.980	240,396.983
3	1,995,220.440	240,396.999
4	1,995,210.490	240,396.508
5	1,995,177.665	240,393.237
6	1,995,142.127	240,424.287
7	1,995,141.185	240,451.003

POINT	N	E
1	1,995,279.089	240,389.149
2	1,995,259.764	240,387.350
3	1,995,249.926	240,386.369
4	1,995,245.344	240,386.089
5	1,995,219.856	240,385.507
6	1,995,215.275	240,385.227
7	1,995,153.902	240,379.110
8	1,995,153.803	240,380.105
9	1,995,216.157	240,386.320
10	1,995,218.747	240,386.522
11	1,995,246.133	240,388.058
12	1,995,248.724	240,388.259
13	1,995,259.566	240,389.340
14	1,995,278.916	240,391.142

POINT	N	E
1	1,995,130.891	240,450.640
2	1,995,132.719	240,398.803
3	1,995,130.021	240,398.708
4	1,995,128.172	240,450.545

NR13 NORTH ROAD IMPROVEMENT AND MAINTENANCE PROJECT	
BM	ELEVATION
BM 17	171.318
BM 18	171.948

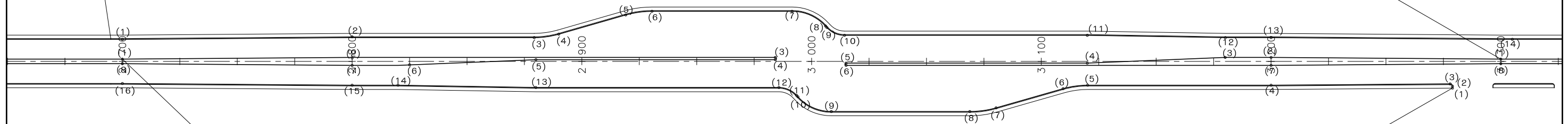
SIKEUTH - DONGDOK PROJECT	
BM	ELEVATION
BM 17	171.222
BM 18	171.852

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY						DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
	SETTING OUT PLAN						CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. SCN-001
	Km 0+000 - Km 0+200						APPROVED	Mr.Vandy VORASACK	SCALE: 1:1000

POINT	N	E
1	1,997,700.716	239,951.200
2	1,997,784.729	239,896.918
3	1,997,851.619	239,854.408
4	1,997,859.825	239,847.410
5	1,997,879.944	239,824.688
6	1,997,888.723	239,817.201
7	1,997,940.187	239,784.494
8	1,997,955.909	239,782.123
9	1,997,956.795	239,782.366
10	1,997,965.076	239,781.117
11	1,998,054.267	239,724.434
12	1,998,105.510	239,693.053
13	1,998,122.321	239,682.368
14	1,998,207.139	239,629.353



POINT	N	E
1	1,998,211.761	239,636.664
2	1,998,126.961	239,689.669
3	1,998,110.081	239,700.396
4	1,998,060.783	239,734.689
5	1,997,972.166	239,791.008
6	1,997,972.702	239,791.852
7	1,998,128.838	239,692.623
8	1,998,212.834	239,638.352



POINT	N	E
1	1,997,705.373	239,958.489
2	1,997,789.369	239,904.218
3	1,997,944.831	239,805.418
4	1,997,945.367	239,806.262
5	1,997,857.424	239,862.152
6	1,997,808.126	239,896.445
7	1,997,791.246	239,907.172
8	1,997,706.446	239,960.177

POINT	N	E
1	1,998,200.787	239,658.636
2	1,998,200.335	239,657.925
3	1,998,198.949	239,657.622
4	1,998,133.478	239,699.923
5	1,998,066.083	239,742.754
6	1,998,057.877	239,749.752
7	1,998,037.758	239,772.474
8	1,998,028.979	239,779.961
9	1,997,978.092	239,812.301
10	1,997,962.371	239,814.672
11	1,997,961.484	239,814.429
12	1,997,953.203	239,815.678
13	1,997,863.906	239,872.428
14	1,997,812.731	239,903.767
15	1,997,795.886	239,914.473
16	1,997,711.086	239,967.477

NOTES:

- 1) MORE DETAILS SEE STANDARD DRAWING No. SDR-019
- 2) ALL ELEVATION SEE CROSS SECTION DRAWING



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

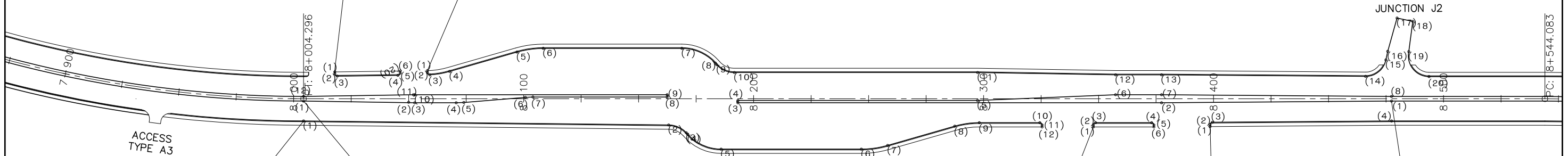
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
SETTING OUT PLAN  
U-TURN  
Km 2+700 - Km 3+300

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. SCN-002
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:1750



POINT	N	E
1	2,002,053.906	237,105.461
2	2,002,054.660	237,105.817
3	2,002,056.002	237,105.326
4	2,002,058.639	237,096.967
5	2,002,064.560	237,067.128
6	2,002,068.363	237,056.235
7	2,002,095.983	237,002.639
8	2,002,108.361	236,992.660
9	2,002,109.249	236,992.422
10	2,002,115.768	236,987.167
11	2,002,164.235	236,893.116
12	2,002,192.609	236,840.239
13	2,002,201.752	236,822.497
14	2,002,242.983	236,743.941
15	2,002,240.675	236,732.812
16	2,002,237.716	236,730.405
17	2,002,226.711	236,720.164
18	2,002,231.128	236,714.734
19	2,002,242.022	236,722.306
20	2,002,255.688	236,719.471

POINT	N	E
1	2,002,035.941	237,141.472
2	2,002,036.702	237,141.851
3	2,002,038.043	237,141.403
4	2,002,049.851	237,117.749
5	2,002,049.414	237,116.413
6	2,002,048.647	237,116.018



POINT	N	E
1	2,002,048.679	237,163.306
2	2,002,122.954	237,022.996
3	2,002,129.473	237,017.740
4	2,002,130.361	237,017.502
5	2,002,142.739	237,007.524
6	2,002,170.672	236,953.320
7	2,002,174.475	236,942.426
8	2,002,180.382	236,912.658
9	2,002,183.936	236,902.476
10	2,002,195.993	236,879.080
11	2,002,197.340	236,878.650
12	2,002,198.095	236,879.039

POINT	N	E
1	2,002,040.916	237,159.487
2	2,002,063.508	237,117.273
3	2,002,063.798	237,116.722
4	2,002,072.056	237,100.697
5	2,002,073.453	237,097.684
6	2,002,083.715	237,072.917
7	2,002,085.112	237,069.903
8	2,002,111.843	237,018.033
9	2,002,110.954	237,017.575
10	2,002,060.704	237,115.085
11	2,002,060.423	237,115.640
12	2,002,039.148	237,158.551

POINT	N	E
1	2,002,208.298	236,859.240
2	2,002,207.543	236,858.850
3	2,002,207.112	236,857.503
4	2,002,218.261	236,835.869
5	2,002,219.608	236,835.438
6	2,002,220.363	236,835.828

POINT	N	E
1	2,002,257.694	236,738.828
2	2,002,212.552	236,828.063
3	2,002,128.173	236,991.801
4	2,002,127.284	236,991.343
5	2,002,175.017	236,898.718
6	2,002,200.280	236,844.238
7	2,002,209.441	236,826.460
8	2,002,255.916	236,737.912

POINT	N	E
1	2,002,231.412	236,814.041
2	2,002,230.650	236,813.648
3	2,002,230.216	236,812.308
4	2,002,265.383	236,742.791

NOTES:  
 1) MORE DETAILS SEE STANDARD DRAWING No. SDR-019 AND SDR-008  
 2) ALL ELEVATION SEE CROSS SECTION DRAWING

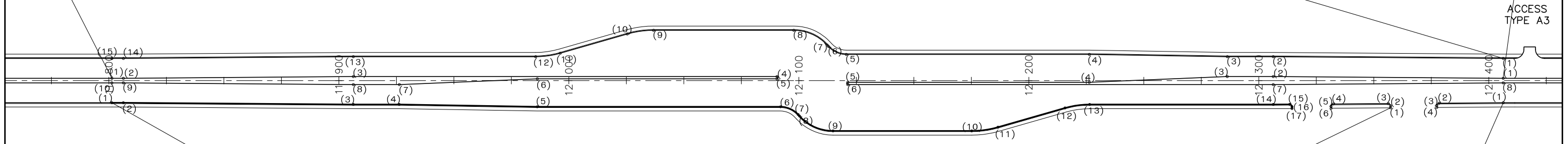
<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ          LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY					DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
	SETTING OUT PLAN					CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. SCN-003
	U-TURN Km 8+000 - Km 8+500					APPROVED	Mr.Vandy VORASACK	SCALE: 1:1750



POINT	N	E
1	2,005,424.383	236,170.380
2	2,005,429.236	236,169.177
3	2,005,526.116	236,144.384
4	2,005,704.903	236,100.054
5	2,005,705.144	236,101.025
6	2,005,604.006	236,126.102
7	2,005,546.371	236,142.968
8	2,005,526.959	236,147.781
9	2,005,429.717	236,171.118
10	2,005,424.864	236,172.322

POINT	N	E
1	2,006,009.519	236,016.387
2	2,005,912.279	236,039.725
3	2,005,892.906	236,044.528
4	2,005,834.428	236,057.997
5	2,005,731.817	236,083.439
6	2,005,723.568	236,081.994
7	2,005,722.804	236,081.483
8	2,005,707.144	236,078.739
9	2,005,647.958	236,093.414
10	2,005,637.256	236,097.726
11	2,005,610.964	236,112.884
12	2,005,600.960	236,116.914
13	2,005,524.035	236,135.988
14	2,005,427.155	236,160.781
15	2,005,422.301	236,161.985

POINT	N	E
1	2,006,011.602	236,024.783
2	2,005,914.360	236,048.121
3	2,005,894.948	236,052.934
4	2,005,837.313	236,069.800
5	2,005,735.399	236,095.069
6	2,005,735.640	236,096.039
7	2,005,915.203	236,051.518
8	2,006,012.083	236,026.724



POINT	N	E
1	2,005,426.946	236,180.717
2	2,005,431.799	236,179.514
3	2,005,529.040	236,156.176
4	2,005,548.413	236,151.373
5	2,005,606.890	236,137.904
6	2,005,709.585	236,112.442
7	2,005,717.834	236,113.887
8	2,005,718.598	236,114.398
9	2,005,734.258	236,117.142
10	2,005,792.780	236,102.632
11	2,005,803.483	236,098.320
12	2,005,829.774	236,083.161
13	2,005,839.778	236,079.131
14	2,005,917.284	236,059.914
15	2,005,924.203	236,058.143
16	2,005,925.420	236,058.864
17	2,005,925.631	236,059.687

POINT	N	E
1	2,005,967.138	236,049.065
2	2,005,966.936	236,048.247
3	2,005,965.717	236,047.519
4	2,005,942.609	236,053.432
5	2,005,941.887	236,054.642
6	2,005,942.093	236,055.474

POINT	N	E
1	2,006,014.165	236,035.120
2	2,005,987.139	236,042.036
3	2,005,986.417	236,043.246
4	2,005,986.623	236,044.078

NOTES:  
 1) MORE DETAILS SEE STANDARD DRAWING No. SDR-019  
 2) ALL ELEVATION SEE CROSS SECTION DRAWING



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
 LAO TRANSPORT ENGINEERING CONSULTANT

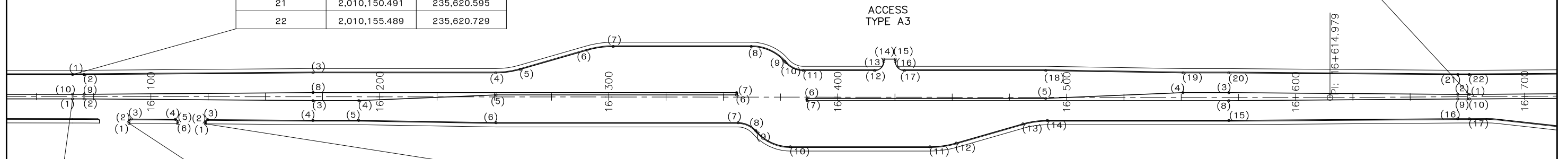
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 SETTING OUT PLAN  
 U-TURN  
 Km 11+800 - Km 12+400

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. SCN-004
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:1750

POINT	N	E
1	2,009,545.708	235,604.394
2	2,009,550.706	235,604.528
3	2,009,650.690	235,606.456
4	2,009,730.515	235,608.594
5	2,009,741.231	235,607.376
6	2,009,770.612	235,599.775
7	2,009,782.076	235,598.471
8	2,009,842.349	235,600.086
9	2,009,856.711	235,606.905
10	2,009,857.311	235,607.602
11	2,009,864.876	235,611.193
12	2,009,895.948	235,612.026
13	2,009,900.054	235,608.134
14	2,009,900.080	235,607.135
15	2,009,905.079	235,607.268
16	2,009,905.052	235,608.268
17	2,009,908.943	235,612.374
18	2,009,970.643	235,614.027
19	2,010,030.594	235,616.633
20	2,010,050.547	235,617.168
21	2,010,150.491	235,620.595
22	2,010,155.489	235,620.729



POINT	N	E
1	2,010,155.321	235,629.378
2	2,010,150.259	235,629.242
3	2,010,050.315	235,625.814
4	2,010,030.322	235,625.279
5	2,009,970.277	235,626.171
6	2,009,866.113	235,623.381
7	2,009,866.086	235,624.380
8	2,010,050.221	235,629.313
9	2,010,150.205	235,631.241
10	2,010,155.280	235,631.377



POINT	N	E
1	2,009,569.774	235,626.343
2	2,009,569.803	235,625.494
3	2,009,570.837	235,624.529
4	2,009,590.116	235,625.190
5	2,009,591.081	235,626.224
6	2,009,591.052	235,627.073

POINT	N	E
1	2,009,545.422	235,615.040
2	2,009,550.421	235,615.174
3	2,009,650.365	235,618.601
4	2,009,670.358	235,619.137
5	2,009,730.403	235,618.245
6	2,009,835.365	235,621.057
7	2,009,835.392	235,620.057
8	2,009,650.458	235,615.103
9	2,009,550.474	235,613.175
10	2,009,545.476	235,613.041

POINT	N	E
1	2,009,603.124	235,627.487
2	2,009,603.154	235,626.638
3	2,009,604.187	235,625.673
4	2,009,650.133	235,627.248
5	2,009,670.085	235,627.783
6	2,009,730.037	235,630.389
7	2,009,835.718	235,633.220
8	2,009,843.283	235,636.812
9	2,009,843.883	235,637.509
10	2,009,858.245	235,644.328
11	2,009,919.202	235,645.961
12	2,009,930.666	235,644.657
13	2,009,960.047	235,637.056
14	2,009,970.763	235,635.838
15	2,010,049.990	235,637.960
16	2,010,149.973	235,639.888
17	2,010,154.972	235,640.022

NOTES:  
 1) MORE DETAILS SEE STANDARD DRAWING No. SDR-019  
 2) ALL ELEVATION SEE CROSS SECTION DRAWING



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
 LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 SETTING OUT PLAN  
 U-TURN  
 Km 16+075 - Km 16+675

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
				DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
				CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. SCN-005
				APPROVED	Mr.Vandy VORASACK	SCALE: 1:1750



POINT	N	E
1	2,001,075.338	238,209.829
2	2,001,074.725	238,209.240
3	2,001,074.698	238,207.826
4	2,001,086.039	238,196.039
5	2,001,111.490	238,195.548
6	2,001,114.384	238,198.333
7	2,001,118.967	238,202.129
8	2,001,128.161	238,208.654
9	2,001,137.326	238,216.244
10	2,001,140.232	238,219.041
11	2,001,145.086	238,213.997
12	2,001,142.179	238,211.200
13	2,001,134.241	238,202.334
14	2,001,127.367	238,193.399
15	2,001,123.398	238,188.966
16	2,001,120.504	238,186.181
17	2,001,120.013	238,160.730
18	2,001,184.174	238,094.047
19	2,001,189.830	238,093.939
20	2,001,190.550	238,094.632
21	2,001,194.017	238,091.029
22	2,001,193.296	238,090.336
23	2,001,193.187	238,084.680
24	2,001,225.280	238,051.326
25	2,001,261.698	238,011.391

POINT	N	E
1	2,001,210.933	238,033.675
2	2,001,211.529	238,034.245
3	2,001,211.542	238,035.677
4	2,001,210.194	238,037.013
5	2,001,181.630	238,065.250
6	2,001,127.724	238,121.274
7	2,001,122.069	238,121.383
8	2,001,121.348	238,120.689
9	2,001,117.881	238,124.292
10	2,001,118.602	238,124.986
11	2,001,118.711	238,130.641
12	2,001,054.294	238,197.590
13	2,001,048.638	238,197.699
14	2,001,047.917	238,197.006
15	2,001,044.450	238,200.609
16	2,001,045.171	238,201.302
17	2,001,045.280	238,206.958
18	2,001,034.275	238,218.395
19	2,001,015.276	238,241.746

POINT	N	E
1	2,001,234.209	238,009.736
2	2,001,234.823	238,010.286
3	2,001,234.885	238,011.717
4	2,001,221.641	238,025.509
5	2,001,220.244	238,025.541
6	2,001,219.605	238,024.944

POINT	N	E
1	2,001,251.458	237,993.722
2	2,001,246.416	237,999.263
3	2,001,243.587	238,002.358
4	2,001,242.192	238,002.434
5	2,001,241.534	238,001.859

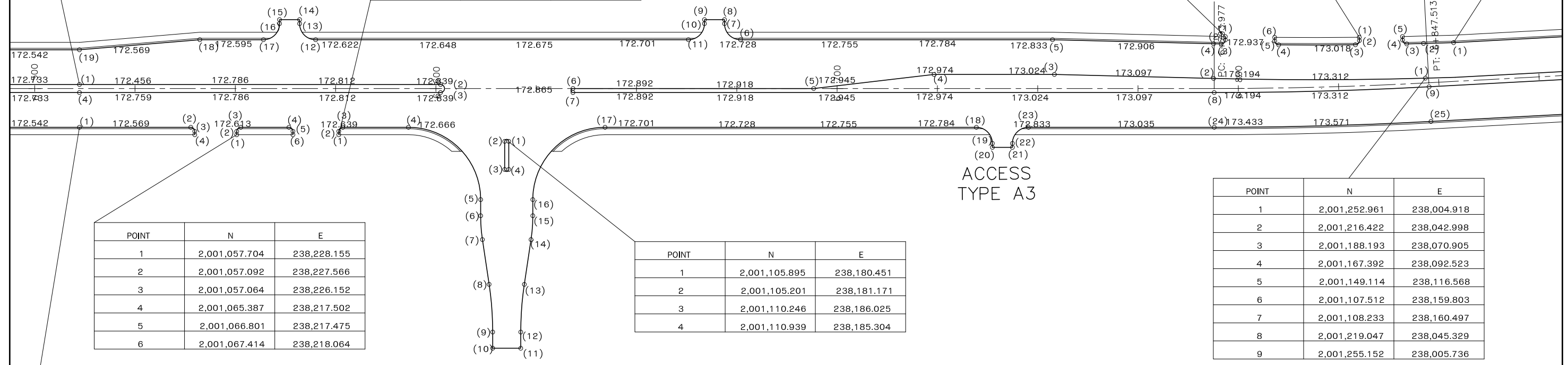
POINT	N	E
1	2,001,021.510	238,247.744
2	2,001,083.911	238,182.890
3	2,001,085.352	238,184.277
4	2,001,022.951	238,249.130

ACCESS TYPE A3

ACCESS TYPE A3

ACCESS TYPE A3

JUNCTION J3



POINT	N	E
1	2,001,057.704	238,228.155
2	2,001,057.092	238,227.566
3	2,001,057.064	238,226.152
4	2,001,065.387	238,217.502
5	2,001,066.801	238,217.475
6	2,001,067.414	238,218.064

POINT	N	E
1	2,001,105.895	238,180.451
2	2,001,105.201	238,181.171
3	2,001,110.246	238,186.025
4	2,001,110.939	238,185.304

POINT	N	E
1	2,001,252.961	238,004.918
2	2,001,216.422	238,042.998
3	2,001,188.193	238,070.905
4	2,001,167.392	238,092.523
5	2,001,149.114	238,116.568
6	2,001,107.512	238,159.803
7	2,001,108.233	238,160.497
8	2,001,219.047	238,045.329
9	2,001,255.152	238,005.736

POINT	N	E
1	2,001,029.184	238,255.128
2	2,001,048.424	238,235.132
3	2,001,049.838	238,235.105
4	2,001,050.450	238,235.694

NOTES:  
1) MORE DETAILS SEE STANDARD DRAWING No. SDR-008

<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p>SETTING OUT PLAN JUNCTION J3 Km 6+600</p>	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
						CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. SCN-006
						APPROVED	Mr.Vandy VORASACK		SCALE: 1:1000

# LIST OF COORDINATES

LIST OF COORDINATE

LIST OF COORDINATE

STA	N	E
0+000.00	1995075.274	240369.967
0+025.00	1995100.151	240372.447
0+050.00	1995125.027	240374.926
0+075.00	1995149.904	240377.405
0+100.00	1995174.781	240379.885
0+125.00	1995199.658	240382.364
0+150.00	1995224.534	240384.844
0+175.00	1995249.411	240387.323
0+200.00	1995274.295	240389.731
0+225.00	1995299.212	240391.758
0+250.00	1995324.160	240393.371
0+275.00	1995349.122	240394.743
0+300.00	1995374.084	240396.114
0+325.00	1995399.047	240397.485
0+350.00	1995424.009	240398.856
0+375.00	1995448.973	240400.206
0+400.00	1995473.959	240401.007
0+425.00	1995498.958	240401.027
0+450.00	1995523.945	240400.266
0+475.00	1995548.897	240398.725
0+500.00	1995573.788	240396.404
0+525.00	1995598.594	240393.307
0+550.00	1995623.344	240389.782
0+575.00	1995648.094	240386.255
0+600.00	1995672.844	240382.729
0+625.00	1995697.594	240379.202
0+650.00	1995722.344	240375.675
0+675.00	1995747.094	240372.149
0+700.00	1995771.844	240368.622
0+725.00	1995796.594	240365.095
0+750.00	1995821.344	240361.569
0+775.00	1995846.094	240358.042
0+800.00	1995870.844	240354.515
0+825.00	1995895.594	240350.989
0+850.00	1995920.345	240347.465
0+875.00	1995945.127	240344.173
0+900.00	1995969.909	240340.881
0+925.00	1995994.692	240337.589
0+950.00	1996019.474	240334.297
0+975.00	1996044.256	240331.005
1+000.00	1996069.039	240327.713
1+025.00	1996093.821	240324.421
1+050.00	1996118.603	240321.129
1+075.00	1996143.386	240317.837
1+100.00	1996168.168	240314.545
1+125.00	1996192.950	240311.253
1+150.00	1996217.733	240307.961
1+175.00	1996242.515	240304.670
1+200.00	1996267.297	240301.378
1+225.00	1996292.079	240298.086
1+250.00	1996316.862	240294.794
1+275.00	1996341.644	240291.502
1+300.00	1996366.426	240288.210
1+325.00	1996391.209	240284.918
1+350.00	1996415.979	240281.535
1+375.00	1996440.727	240278.001
1+400.00	1996465.476	240274.466
1+425.00	1996490.225	240270.931
1+450.00	1996514.974	240267.396

STA	N	E
1+475.00	1996539.723	240263.861
1+500.00	1996564.472	240260.326
1+525.00	1996589.220	240256.792
1+550.00	1996613.969	240253.257
1+575.00	1996638.718	240249.722
1+600.00	1996663.467	240246.187
1+625.00	1996688.216	240242.652
1+650.00	1996712.965	240239.117
1+675.00	1996737.713	240235.582
1+700.00	1996762.462	240232.048
1+725.00	1996787.211	240228.513
1+750.00	1996811.960	240224.978
1+775.00	1996836.709	240221.443
1+800.00	1996861.458	240217.908
1+825.00	1996886.206	240214.373
1+850.00	1996910.955	240210.839
1+875.00	1996935.704	240207.304
1+900.00	1996960.453	240203.769
1+925.00	1996985.202	240200.234
1+950.00	1997009.951	240196.699
1+975.00	1997034.699	240193.164
2+000.00	1997059.448	240189.629
2+025.00	1997084.197	240186.095
2+050.00	1997108.946	240182.560
2+075.00	1997133.695	240179.025
2+100.00	1997158.444	240175.490
2+125.00	1997183.192	240171.955
2+150.00	1997207.941	240168.420
2+175.00	1997232.690	240164.886
2+200.00	1997257.439	240161.351
2+225.00	1997282.188	240157.816
2+250.00	1997306.937	240154.281
2+275.00	1997331.685	240150.746
2+300.00	1997356.434	240147.211
2+325.00	1997381.081	240143.676
2+350.00	1997405.807	240140.141
2+375.00	1997428.937	240136.606
2+400.00	1997451.808	240133.071
2+425.00	1997473.761	240129.536
2+450.00	1997494.915	240126.001
2+475.00	1997516.014	240122.466
2+500.00	1997537.114	240118.931
2+525.00	1997558.213	240115.396
2+550.00	1997579.312	240111.861
2+575.00	1997600.413	240108.326
2+600.00	1997621.512	240104.791
2+625.00	1997642.611	239999.561
2+650.00	1997663.711	239994.331
2+675.00	1997684.810	239989.101
2+700.00	1997705.910	239983.871
2+725.00	1997727.009	239978.641
2+750.00	1997748.109	239973.411
2+775.00	1997769.208	239968.181
2+800.00	1997790.308	239962.951
2+825.00	1997811.407	239957.721
2+850.00	1997832.507	239952.491
2+875.00	1997853.606	239947.261
2+900.00	1997874.706	239942.031
2+925.00	1997895.805	239936.801

STA	N	E
2+950.00	1997916.905	239825.239
2+975.00	1997938.004	239811.830
3+000.00	1997959.104	239798.421
3+025.00	1997980.203	239785.011
3+050.00	1998001.303	239771.602
3+075.00	1998022.402	239758.192
3+100.00	1998043.502	239744.783
3+125.00	1998064.601	239731.374
3+150.00	1998085.701	239717.964
3+175.00	1998106.800	239704.555
3+200.00	1998127.900	239691.146
3+225.00	1998148.999	239677.736
3+250.00	1998170.099	239664.327
3+275.00	1998191.198	239650.918
3+300.00	1998212.298	239637.508
3+325.00	1998233.397	239624.099
3+350.00	1998254.496	239610.689
3+375.00	1998275.595	239597.280
3+400.00	1998296.694	239583.871
3+425.00	1998317.793	239570.461
3+450.00	1998338.892	239557.052
3+475.00	1998359.991	239543.642
3+500.00	1998381.090	239530.233
3+525.00	1998402.189	239516.823
3+550.00	1998423.288	239503.414
3+575.00	1998444.387	239490.004
3+600.00	1998465.486	239476.595
3+625.00	1998486.585	239463.185
3+650.00	1998507.684	239449.776
3+675.00	1998528.783	239436.366
3+700.00	1998549.882	239422.957
3+725.00	1998570.981	239409.547
3+750.00	1998592.080	239396.138
3+775.00	1998613.179	239382.728
3+800.00	1998634.278	239369.319
3+825.00	1998655.377	239355.909
3+850.00	1998676.476	239342.500
3+875.00	1998697.575	239329.090
3+900.00	1998718.674	239315.681
3+925.00	1998739.773	239302.271
3+950.00	1998760.872	239288.861
3+975.00	1998781.971	239275.452
4+000.00	1998803.070	239262.042
4+025.00	1998824.169	239248.633
4+050.00	1998845.268	239235.223
4+075.00	1998866.367	239221.814
4+100.00	1998887.466	239208.404
4+125.00	1998908.565	239194.995
4+150.00	1998929.664	239181.585
4+175.00	1998950.763	239168.176
4+200.00	1998971.862	239154.766
4+225.00	1998992.961	239141.357
4+250.00	1999014.060	239127.947
4+275.00	1999035.159	239114.538
4+300.00	1999056.258	239101.128
4+325.00	1999077.357	239087.719
4+350.00	1999098.456	239074.309
4+375.00	1999119.555	239060.900
4+400.00	1999140.654	239047.490
4+425.00	1999161.753	239034.081
4+450.00	1999182.852	239020.671
4+475.00	1999203.951	239007.262
4+500.00	1999225.050	238993.852
4+525.00	1999246.149	238980.443
4+550.00	1999267.248	238967.033
4+575.00	1999288.347	238953.624
4+600.00	1999309.446	238940.214
4+625.00	1999330.545	238926.805
4+650.00	1999351.644	238913.395
4+675.00	1999372.743	238900.000
4+700.00	1999393.842	238886.600
4+725.00	1999414.941	238873.200
4+750.00	1999436.040	238859.800
4+775.00	1999457.139	238846.400
4+800.00	1999478.238	238833.000
4+825.00	1999499.337	238819.600
4+850.00	1999520.436	238806.200
4+875.00	1999541.535	238792.800
4+900.00	1999562.634	238779.400
4+925.00	1999583.733	238766.000
4+950.00	1999604.832	238752.600
4+975.00	1999625.931	238739.200
5+000.00	1999647.030	238725.800
5+025.00	1999668.129	238712.400
5+050.00	1999689.228	238699.000
5+075.00	1999710.327	238685.600
5+100.00	1999731.426	238672.200
5+125.00	1999752.525	238658.800
5+150.00	1999773.624	238645.400
5+175.00	1999794.723	238632.000
5+200.00	1999815.822	238618.600
5+225.00	1999836.921	238605.200
5+250.00	1999858.020	238591.800
5+275.00	1999879.119	238578.400
5+300.00	1999900.218	238565.000
5+325.00	1999921.317	238551.600
5+350.00	1999942.416	238538.200
5+375.00	1999963.515	238524.800
5+400.00	1999984.614	238511.400
5+425.00	2000005.713	238498.000
5+450.00	2000026.812	238484.600
5+475.00	2000047.911	238471.200
5+500.00	2000069.010	238457.800
5+525.00	2000090.109	238444.400
5+550.00	2000111.208	238431.000
5+575.00	2000132.307	238417.600
5+600.00	2000153.406	238404.200
5+625.00	2000174.505	238390.800
5+650.00	2000195.604	238377.400
5+675.00	2000216.703	238364.000
5+700.00	2000237.802	238350.600
5+725.00	2000258.901	238337.200
5+750.00	2000280.000	238323.800
5+775.00	2000301.099	238310.400
5+800.00	2000322.198	238297.000
5+825.00	2000343.297	238283.600
5+850.00	2000364.396	238270.200
5+875.00	2000385.495	238256.800
5+900.00	2000406.594	238243.400
5+925.00	2000427.693	238230.000
5+950.00	2000448.792	238216.600
5+975.00	2000469.891	238203.200
6+000.00	2000490.990	238189.800
6+025.00	2000512.089	238176.400
6+050.00	2000533.188	238163.000
6+075.00	2000554.287	238149.600
6+100.00	2000575.386	238136.200
6+125.00	2000596.485	238122.800
6+150.		

LIST OF COORDINATE

STA	N	E
8+850.00	2002513.241	236483.921
8+875.00	2002537.128	236476.560
8+900.00	2002561.429	236470.706
8+925.00	2002586.048	236466.381
8+950.00	2002610.888	236463.601
8+975.00	2002635.854	236462.379
9+000.00	2002660.848	236462.719
9+025.00	2002685.802	236464.234
9+050.00	2002710.752	236465.819
9+075.00	2002735.701	236467.403
9+100.00	2002760.651	236468.988
9+125.00	2002785.601	236470.572
9+150.00	2002810.550	236472.157
9+175.00	2002835.500	236473.741
9+200.00	2002860.451	236475.317
9+225.00	2002885.402	236476.870
9+250.00	2002910.354	236478.424
9+275.00	2002935.306	236479.978
9+300.00	2002960.257	236481.531
9+325.00	2002985.209	236483.085
9+350.00	2003010.161	236484.639
9+375.00	2003035.112	236486.192
9+400.00	2003060.064	236487.746
9+425.00	2003085.016	236489.300
9+450.00	2003109.967	236490.853
9+475.00	2003134.919	236492.407
9+500.00	2003159.871	236493.961
9+525.00	2003184.799	236495.845
9+550.00	2003209.728	236497.740
9+575.00	2003234.656	236499.634
9+600.00	2003259.584	236501.528
9+625.00	2003284.512	236503.423
9+650.00	2003309.440	236505.317
9+675.00	2003334.380	236507.045
9+700.00	2003359.325	236508.700
9+725.00	2003384.270	236510.354
9+750.00	2003409.216	236512.009
9+775.00	2003434.161	236513.663
9+800.00	2003459.106	236515.318
9+825.00	2003484.051	236516.973
9+850.00	2003509.002	236518.528
9+875.00	2003533.991	236519.208
9+900.00	2003558.987	236518.847
9+925.00	2003583.946	236517.445
9+950.00	2003608.824	236515.004
9+975.00	2003633.580	236511.529
10+000.00	2003658.169	236507.026
10+025.00	2003682.552	236501.514
10+050.00	2003706.852	236495.639
10+075.00	2003731.152	236489.764
10+100.00	2003755.452	236483.889
10+125.00	2003779.736	236477.950
10+150.00	2003803.888	236471.494
10+175.00	2003827.879	236464.467
10+200.00	2003851.829	236457.298
10+225.00	2003875.810	236450.232
10+250.00	2003899.945	236443.717
10+275.00	2003924.195	236437.638
10+300.00	2003948.449	236431.577

STA	N	E
10+325.00	2003972.703	236425.517
10+350.00	2003996.958	236419.456
10+375.00	2004021.212	236413.396
10+400.00	2004045.466	236407.336
10+425.00	2004069.720	236401.275
10+450.00	2004093.975	236395.215
10+475.00	2004118.229	236389.154
10+500.00	2004142.483	236383.094
10+525.00	2004166.738	236377.033
10+550.00	2004190.992	236370.973
10+575.00	2004215.246	236364.913
10+600.00	2004239.539	236358.852
10+625.00	2004263.927	236352.791
10+650.00	2004288.403	236346.730
10+675.00	2004312.960	236340.669
10+700.00	2004337.592	236334.608
10+725.00	2004362.292	236328.547
10+750.00	2004387.052	236322.486
10+775.00	2004411.863	236316.425
10+800.00	2004436.682	236310.364
10+825.00	2004461.502	236304.303
10+850.00	2004486.321	236298.242
10+875.00	2004511.141	236292.181
10+900.00	2004535.960	236286.120
10+925.00	2004560.779	236280.059
10+950.00	2004585.599	236273.998
10+975.00	2004610.418	236267.937
11+000.00	2004635.238	236261.876
11+025.00	2004660.057	236255.815
11+050.00	2004684.877	236249.754
11+075.00	2004709.696	236243.693
11+100.00	2004734.516	236237.632
11+125.00	2004759.335	236231.571
11+150.00	2004784.155	236225.510
11+175.00	2004808.974	236219.449
11+200.00	2004833.793	236213.388
11+225.00	2004858.613	236207.327
11+250.00	2004883.432	236201.266
11+275.00	2004908.252	236195.205
11+300.00	2004933.071	236189.144
11+325.00	2004957.891	236183.083
11+350.00	2004982.710	236177.022
11+375.00	2005007.530	236170.961
11+400.00	2005032.349	236164.900
11+425.00	2005057.168	236158.839
11+450.00	2005081.957	236152.778
11+475.00	2005106.688	236146.717
11+500.00	2005131.354	236140.656
11+525.00	2005155.950	236134.595
11+550.00	2005180.467	236128.534
11+575.00	2005204.900	236122.473
11+600.00	2005229.241	236116.412
11+625.00	2005253.510	236110.351
11+650.00	2005277.775	236104.290
11+675.00	2005302.040	236098.229
11+700.00	2005326.306	236092.168
11+725.00	2005350.571	236086.107
11+750.00	2005374.836	236080.046
11+775.00	2005399.101	236073.985

STA	N	E
11+800.00	2005423.367	236171.663
11+825.00	2005447.632	236165.602
11+850.00	2005471.897	236159.541
11+875.00	2005496.162	236153.480
11+900.00	2005520.428	236147.419
11+925.00	2005544.693	236141.358
11+950.00	2005568.958	236135.297
11+975.00	2005593.223	236129.236
12+000.00	2005617.489	236123.175
12+025.00	2005641.754	236117.114
12+050.00	2005666.019	236111.053
12+075.00	2005690.284	236104.992
12+100.00	2005714.550	236098.931
12+125.00	2005738.815	236092.870
12+150.00	2005763.080	236086.809
12+175.00	2005787.345	236080.748
12+200.00	2005811.611	236074.687
12+225.00	2005835.876	236068.626
12+250.00	2005860.141	236062.565
12+275.00	2005884.406	236056.504
12+300.00	2005908.672	236050.443
12+325.00	2005932.937	236044.382
12+350.00	2005957.202	236038.321
12+375.00	2005981.467	236032.260
12+400.00	2006005.733	236026.199
12+425.00	2006029.998	236020.138
12+450.00	2006054.263	236014.077
12+475.00	2006078.528	236008.016
12+500.00	2006102.794	236001.955
12+525.00	2006127.059	235995.894
12+550.00	2006151.324	235989.833
12+575.00	2006175.589	235983.772
12+600.00	2006199.855	235977.711
12+625.00	2006224.120	235971.650
12+650.00	2006248.385	235965.589
12+675.00	2006272.651	235959.528
12+700.00	2006296.916	235953.467
12+725.00	2006321.181	235947.406
12+750.00	2006345.446	235941.345
12+775.00	2006369.712	235935.284
12+800.00	2006393.977	235929.223
12+825.00	2006418.242	235923.162
12+850.00	2006442.508	235917.101
12+875.00	2006466.773	235911.040
12+900.00	2006491.038	235904.979
12+925.00	2006515.303	235898.918
12+950.00	2006539.568	235892.857
12+975.00	2006563.833	235886.796
13+000.00	2006588.100	235880.735
13+025.00	2006612.365	235874.674
13+050.00	2006636.630	235868.613
13+075.00	2006660.895	235862.552
13+100.00	2006685.160	235856.491
13+125.00	2006709.425	235850.430
13+150.00	2006733.690	235844.369
13+175.00	2006757.955	235838.308
13+200.00	2006782.220	235832.247
13+225.00	2006806.485	235826.186
13+250.00	2006830.750	235820.125

STA	N	E
13+275.00	2006855.015	235814.064
13+300.00	2006882.112	235808.003
13+325.00	2006906.279	235801.942
13+350.00	2006930.445	235795.881
13+375.00	2006954.612	235789.820
13+400.00	2006978.778	235783.759
13+425.00	2007002.945	235777.698
13+450.00	2007027.111	235771.637
13+475.00	2007051.278	235765.576
13+500.00	2007075.444	235759.515
13+525.00	2007099.611	235753.454
13+550.00	2007123.777	235747.393
13+575.00	2007147.944	235741.332
13+600.00	2007172.110	235735.271
13+625.00	2007196.277	235729.210
13+650.00	2007220.443	235723.149
13+675.00	2007244.610	235717.088
13+700.00	2007268.776	235711.027
13+725.00	2007292.943	235704.966
13+750.00	2007317.110	235698.905
13+775.00	2007341.276	235692.844
13+800.00	2007365.443	235686.783
13+825.00	2007389.609	235680.722
13+850.00	2007413.776	235674.661
13+875.00	2007437.942	235668.600
13+900.00	2007462.109	235662.539
13+925.00	2007486.275	235656.478
13+950.00	2007510.442	235650.417
13+975.00	2007534.608	235644.356
14+000.00	2007558.774	235638.295
14+025.00	2007582.940	235632.234
14+050.00	2007607.106	235626.173
14+075.00	2007631.272	235620.112
14+100.00	2007655.438	235614.051
14+125.00	2007679.604	235607.990
14+150.00	2007703.770	235601.929
14+175.00	2007727.936	235595.868
14+200.00	2007752.102	235589.807
14+225.00	2007776.268	235583.746
14+250.00	2007800.434	235577.685
14+275.00	2007824.600	235571.624
14+300.00	2007848.766	235565.563
14+325.00	2007872.932	235559.502
14+350.00	2007897.098	235553.441
14+375.00	2007921.264	235547.380
14+400.00	2007945.430	235541.319
14+425.00	2007969.596	235535.258
14+450.00	2007993.762	235529.197
14+475.00	2008017.928	235523.136
14+500.00	2008042.094	235517.075
14+525.00	2008066.260	235511.014
14+550.00	2008090.426	235504.953
14+575.00	2008114.592	235498.892
14+600.00	2008138.758	235492.831
14+625.00	2008162.924	235486.770
14+650.00	2008187.090	235480.709
14+675.00	2008211.256	235474.648
14+700.00	2008235.422	235468.587
14+725.00	2008259.588	235462.526
14+750.00	2008283.754	235456.465
14+775.00	2008307.920	235450.404
14+800.00	2008332.086	235444.343
14+825.00	2008356.252	235438.282
14+850.00	2008380.418	235432.221
14+875.00	2008	

LIST OF COORDINATE

STA	N	E
17+700.00	2011179.205	235651.001
17+725.00	2011204.200	235651.533
17+750.00	2011229.194	235652.065
17+775.00	2011254.188	235652.596
17+800.00	2011279.183	235653.128
17+825.00	2011304.177	235653.660
17+850.00	2011329.171	235654.192
17+875.00	2011354.166	235654.723
17+900.00	2011379.160	235655.255
17+925.00	2011404.154	235655.787
17+950.00	2011429.149	235656.319
17+975.00	2011454.143	235656.851
18+000.00	2011479.137	235657.382
18+025.00	2011504.132	235657.914
18+050.00	2011529.126	235658.446
18+075.00	2011554.120	235658.978
18+100.00	2011579.115	235659.509
18+125.00	2011604.109	235660.041
18+150.00	2011629.104	235660.573
18+175.00	2011654.098	235661.105
18+200.00	2011679.092	235661.636
18+225.00	2011704.087	235662.168
18+250.00	2011729.082	235662.625
18+275.00	2011754.080	235662.976
18+300.00	2011779.077	235663.326
18+325.00	2011804.075	235663.677
18+350.00	2011829.072	235664.027
18+375.00	2011854.070	235664.378
18+400.00	2011879.067	235664.728
18+425.00	2011904.065	235665.079
18+450.00	2011929.063	235665.429
18+475.00	2011954.060	235665.780
18+500.00	2011979.058	235666.130
18+525.00	2012004.055	235666.481
18+550.00	2012029.053	235666.831
18+575.00	2012054.050	235667.182
18+600.00	2012079.048	235667.532
18+625.00	2012104.045	235667.883
18+650.00	2012129.043	235668.233
18+675.00	2012154.040	235668.584
18+700.00	2012179.038	235668.934
18+725.00	2012204.036	235669.285
18+750.00	2012229.033	235669.635
18+775.00	2012254.028	235670.152
18+800.00	2012279.014	235670.981
18+825.00	2012303.987	235672.122
18+850.00	2012328.950	235673.488
18+875.00	2012353.912	235674.865
18+900.00	2012378.874	235676.241
18+925.00	2012403.836	235677.618
18+950.00	2012428.812	235678.626
18+975.00	2012453.754	235677.136
19+000.00	2012478.366	235672.828
19+025.00	2012502.331	235665.756
19+050.00	2012525.340	235656.013
19+075.00	2012547.095	235643.724
19+100.00	2012567.317	235629.047
19+125.00	2012585.816	235612.245
19+150.00	2012603.803	235594.882

STA	N	E
19+175.00	2012621.790	235577.519
19+200.00	2012639.939	235560.328
19+225.00	2012658.864	235543.996
19+250.00	2012678.223	235528.178
19+275.00	2012697.584	235512.361
19+300.00	2012716.949	235496.551
19+325.00	2012736.786	235481.340
19+350.00	2012757.242	235466.969
19+375.00	2012777.764	235452.691
19+400.00	2012798.286	235438.413



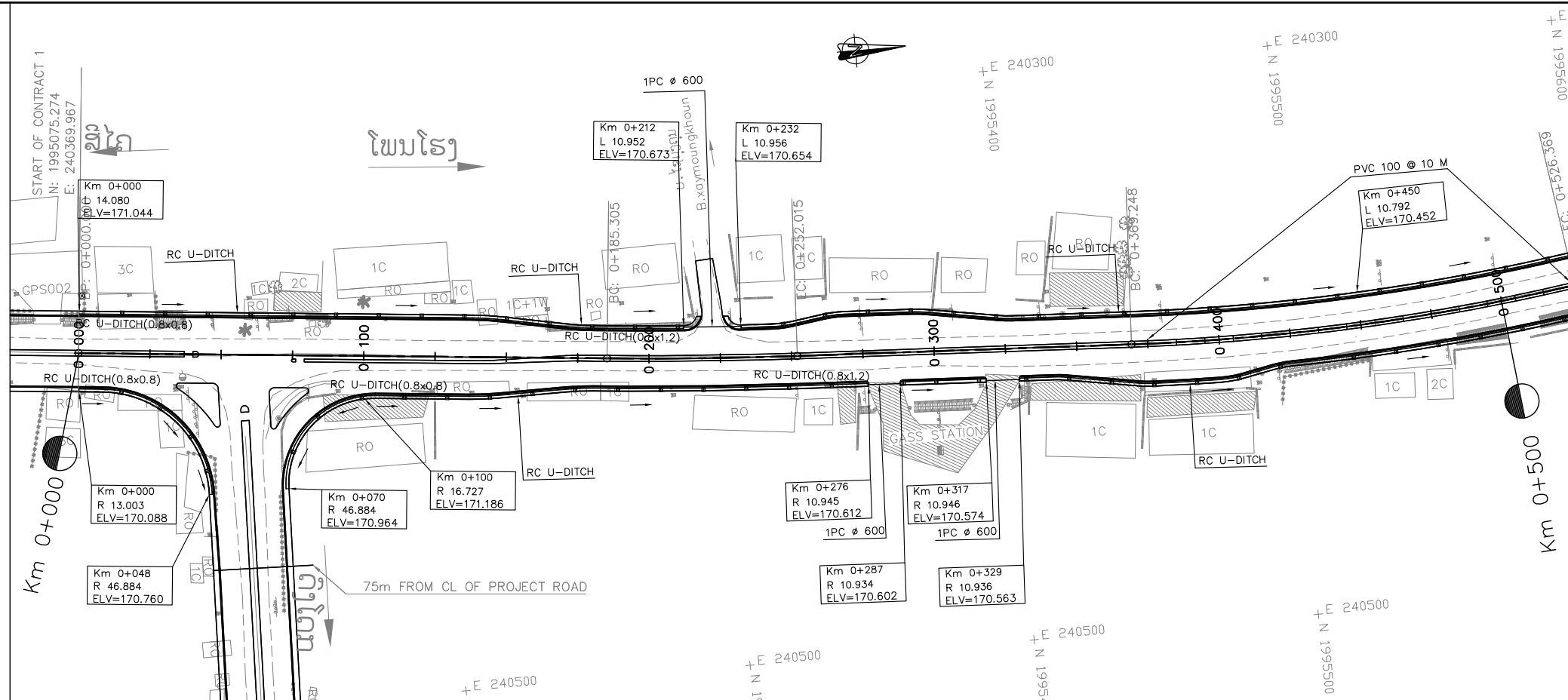
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY  
LIST OF COORDINATE  
Km 17+700 – Km 19+400

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. LDN-003
			APPROVED	Mr.Vandy VORASACK		SCALE: NOT TO SCALE

# DRAINAGE PLANS

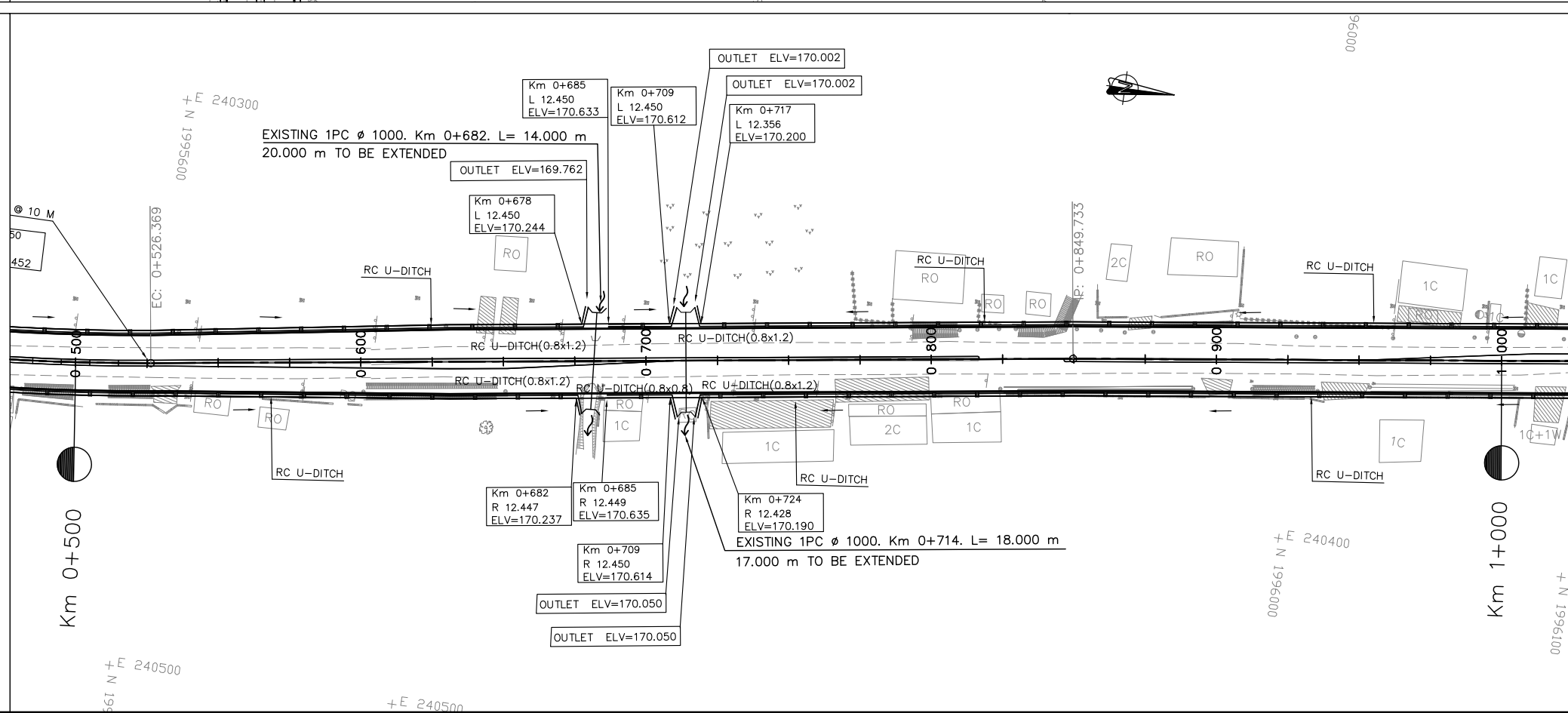
PLAN



NOTES :

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDES DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE  $\phi$ 0.60M SEE STANDARD DRAWINGS No. SSD-028.
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

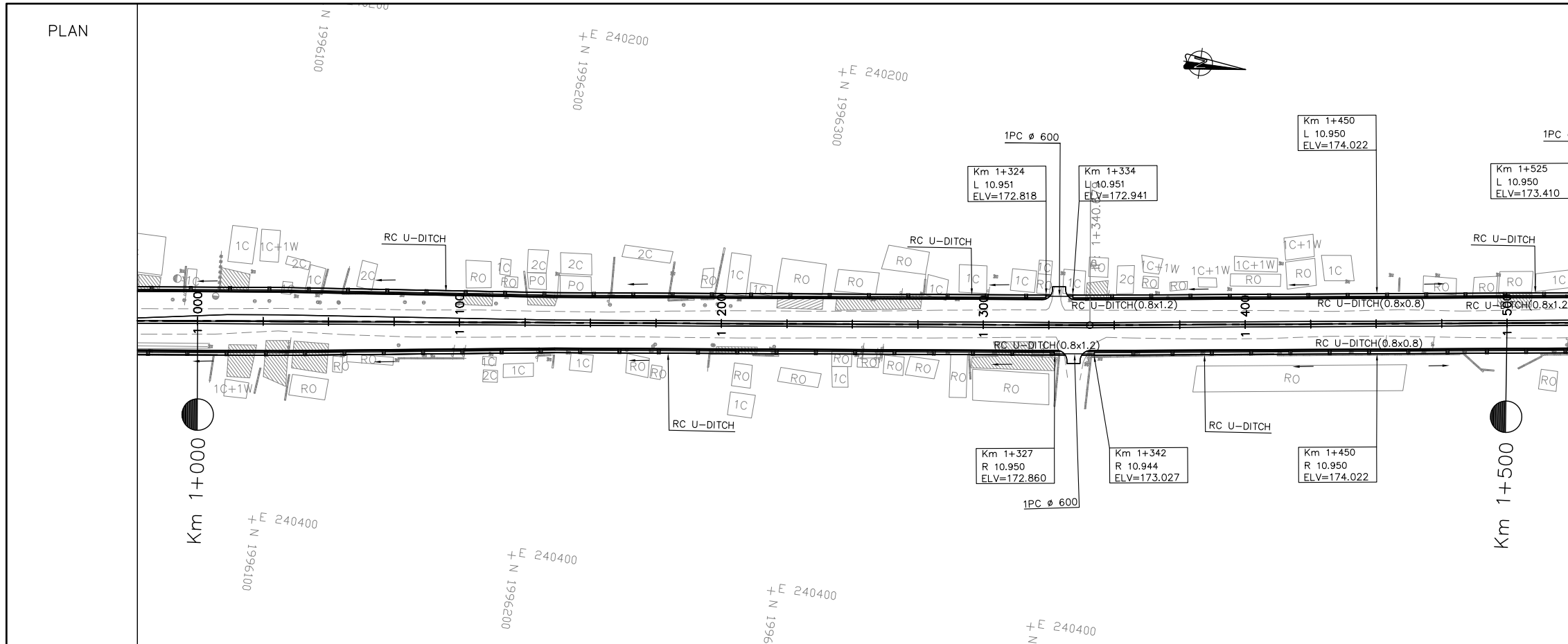
PLAN



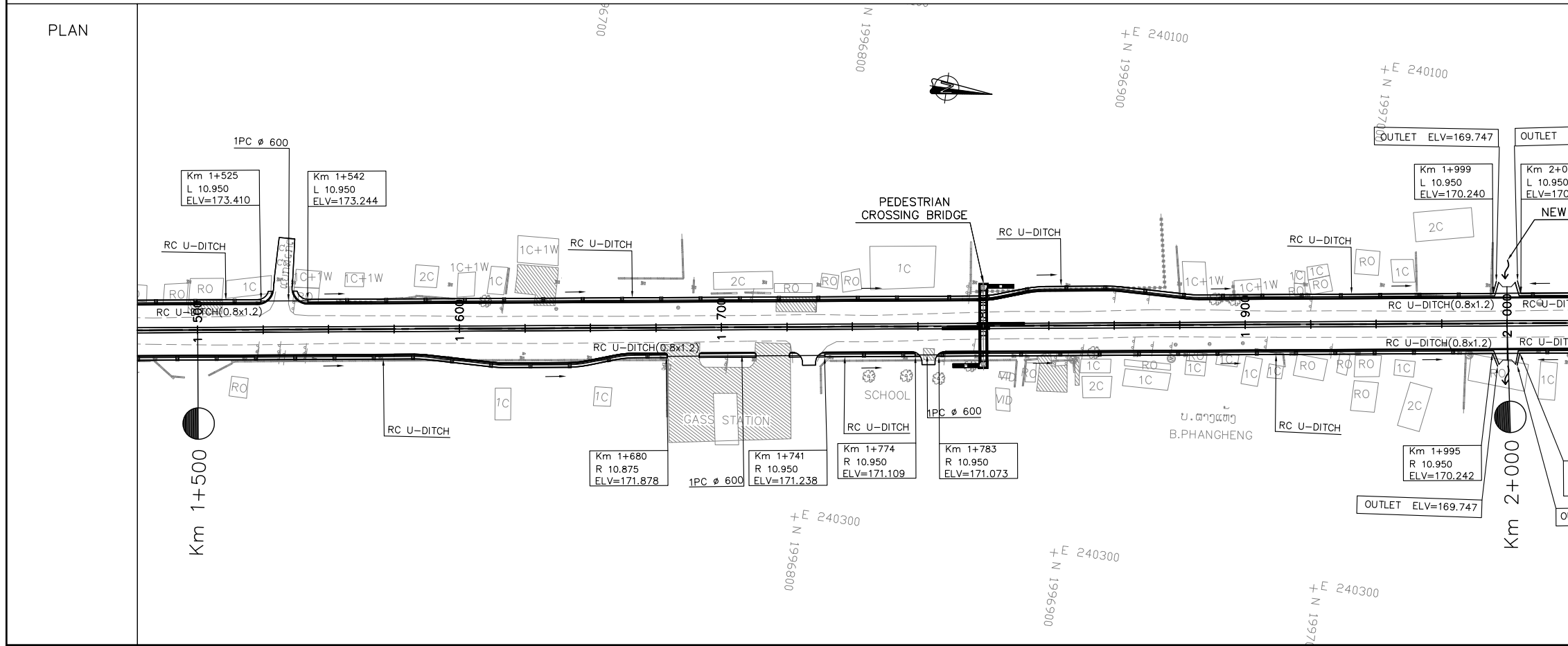
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 0+000 - 1+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-001
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDES DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

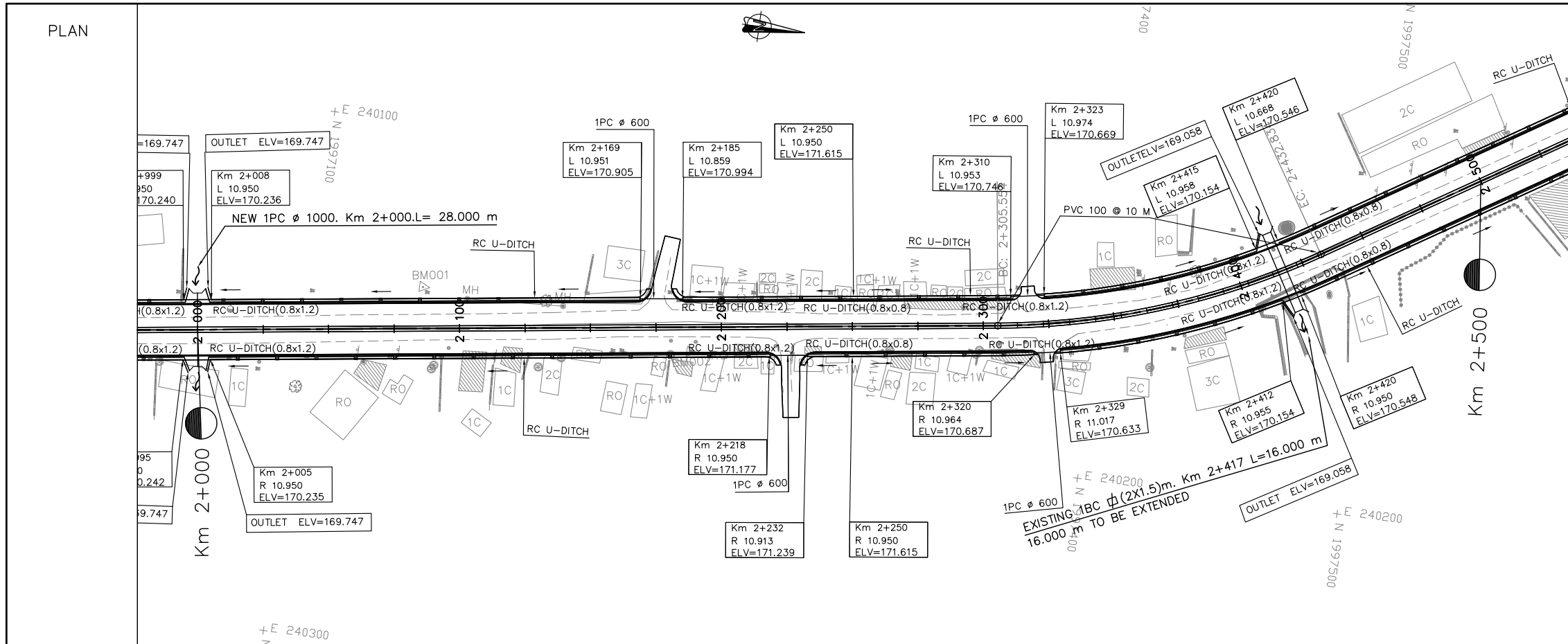


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

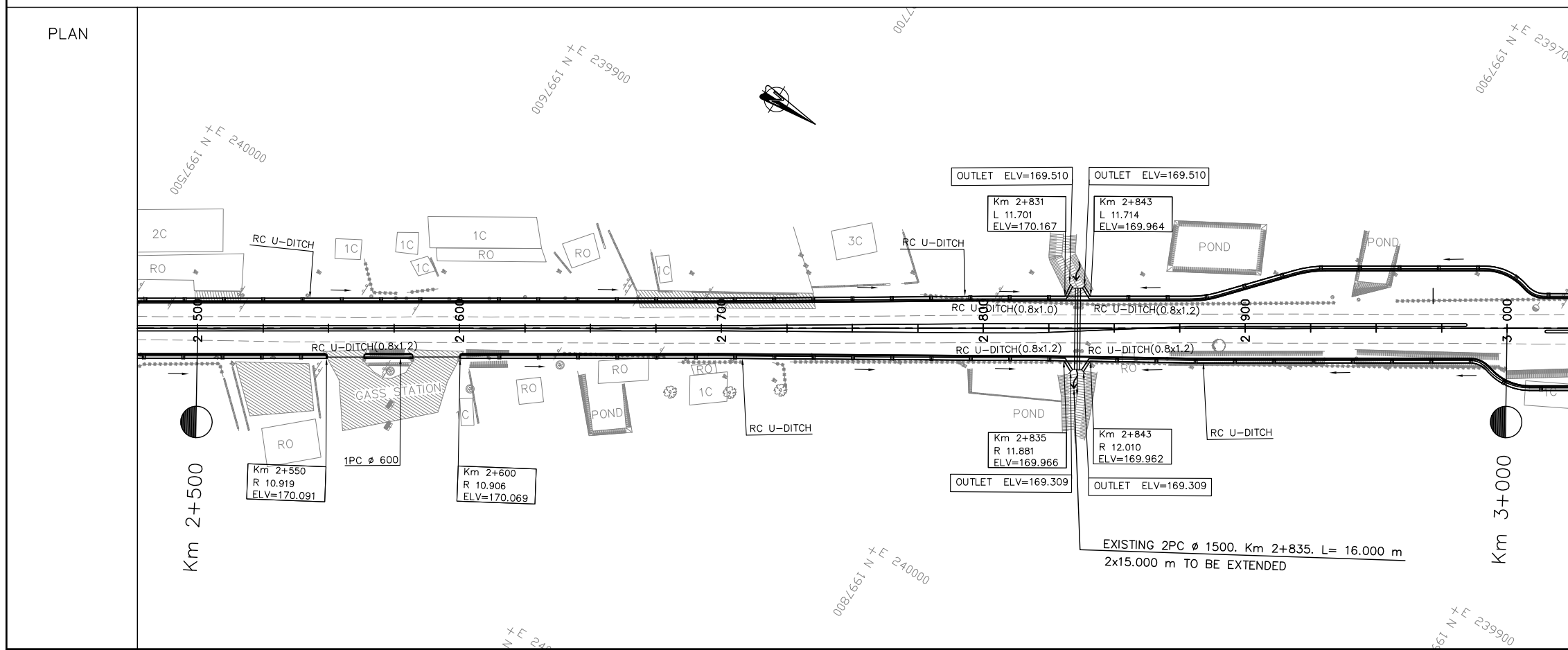
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY

DRAINAGE PLAN  
Km 1+000 - 2+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-002
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



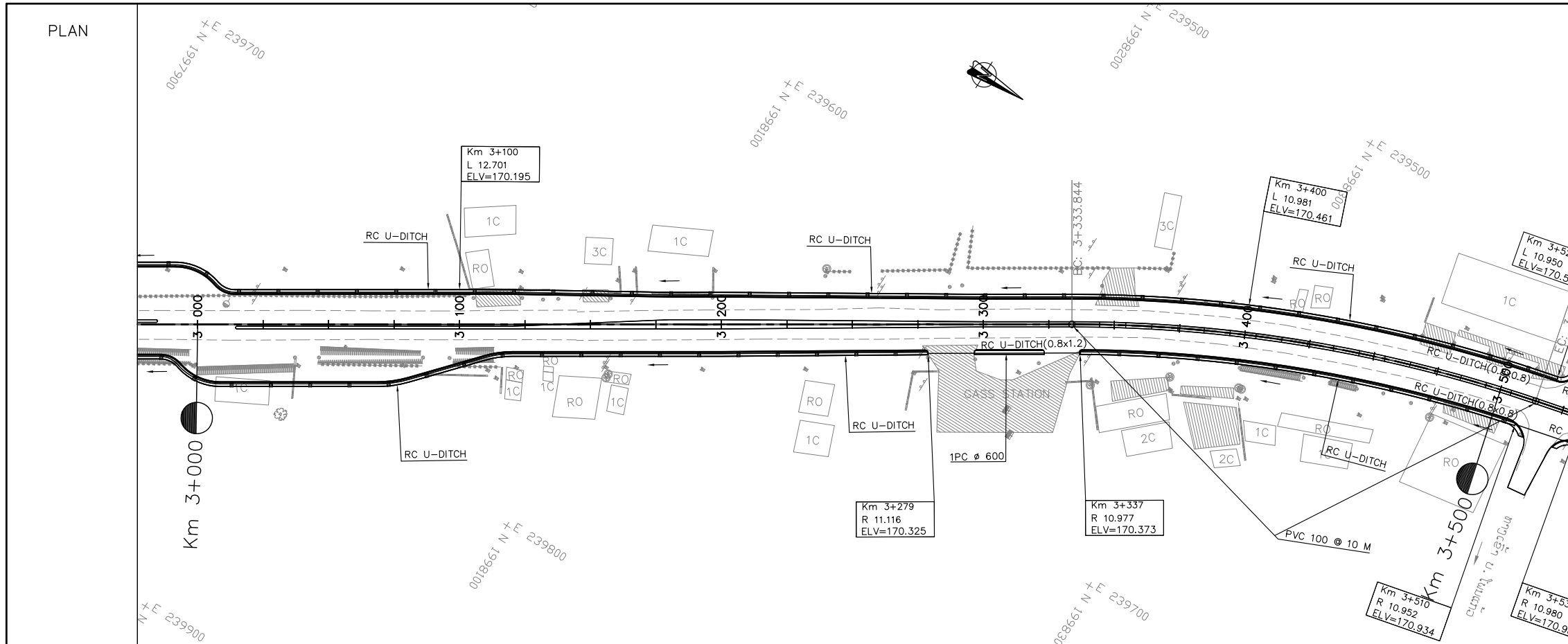
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



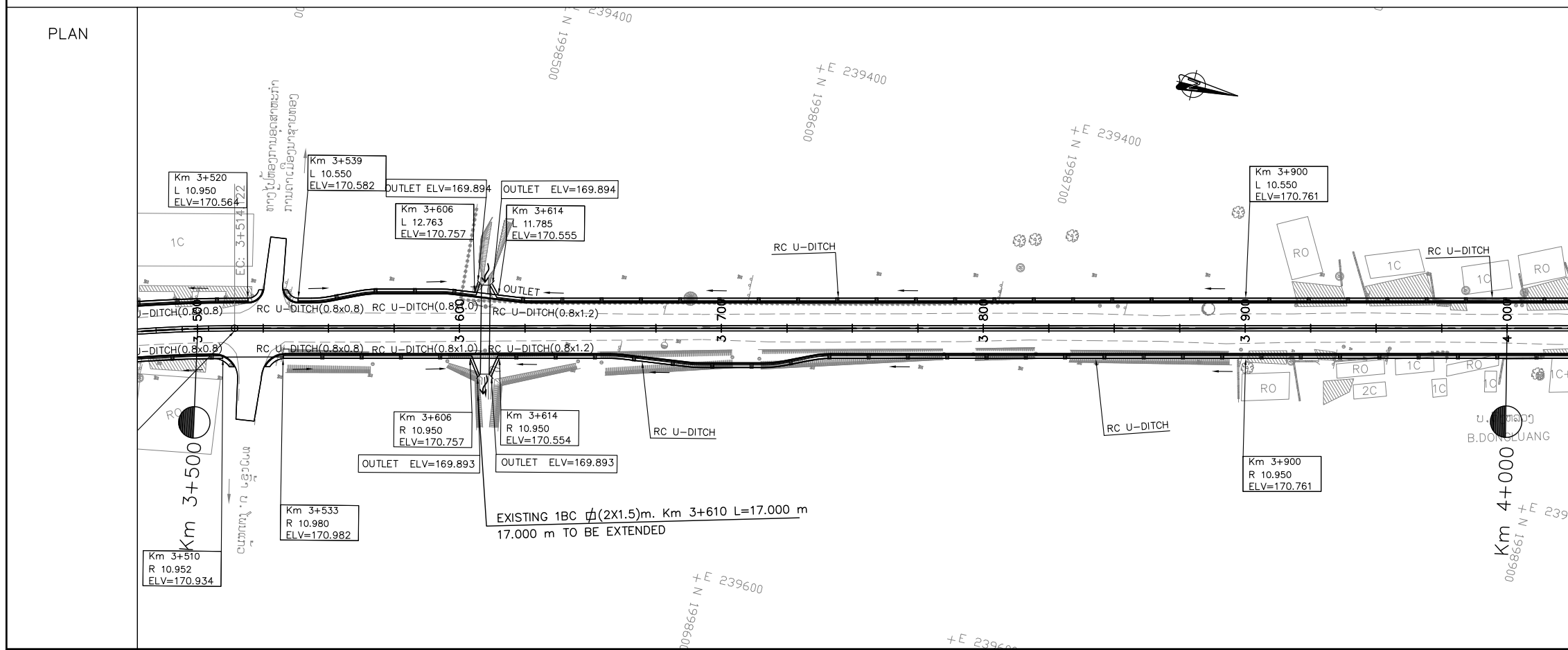
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 2+000 - 3+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-003
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



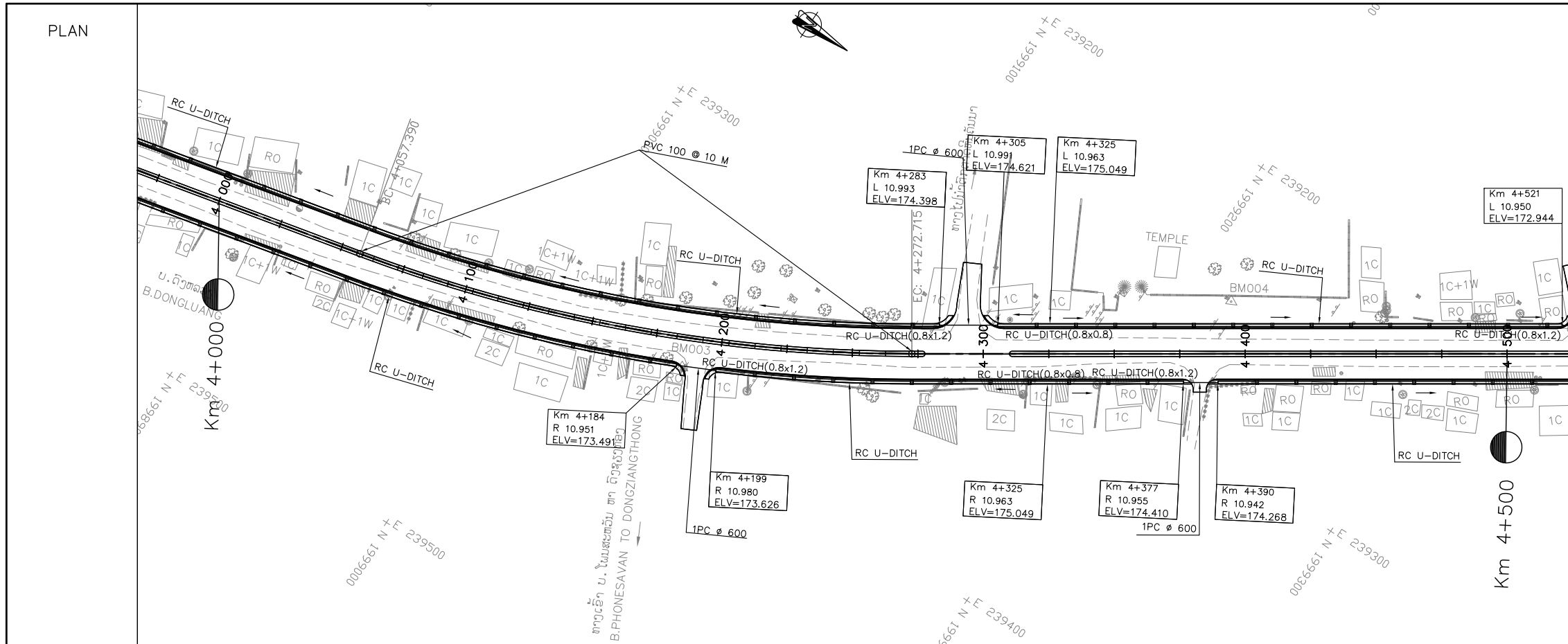
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE  $\phi$ 0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



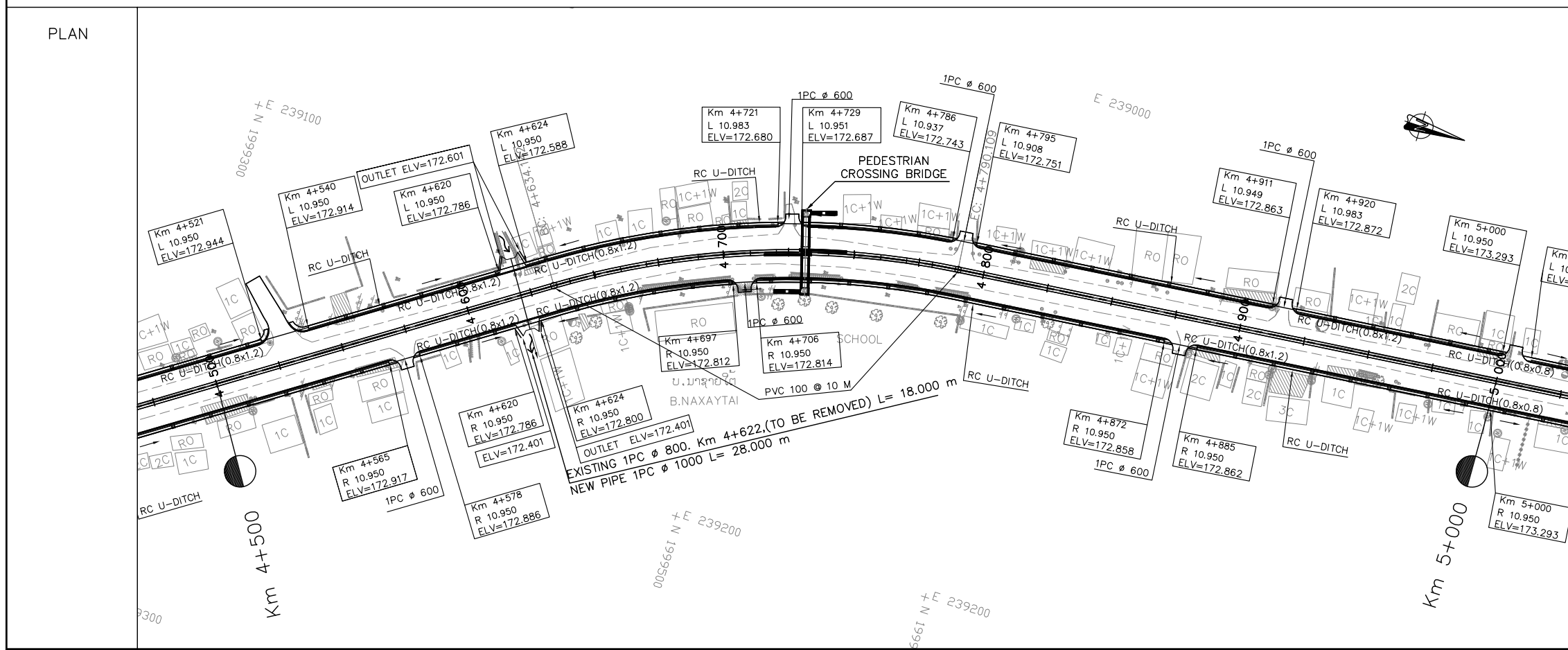
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY  
**DRAINAGE PLAN**  
Km 3+000 - 4+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-004
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028.
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

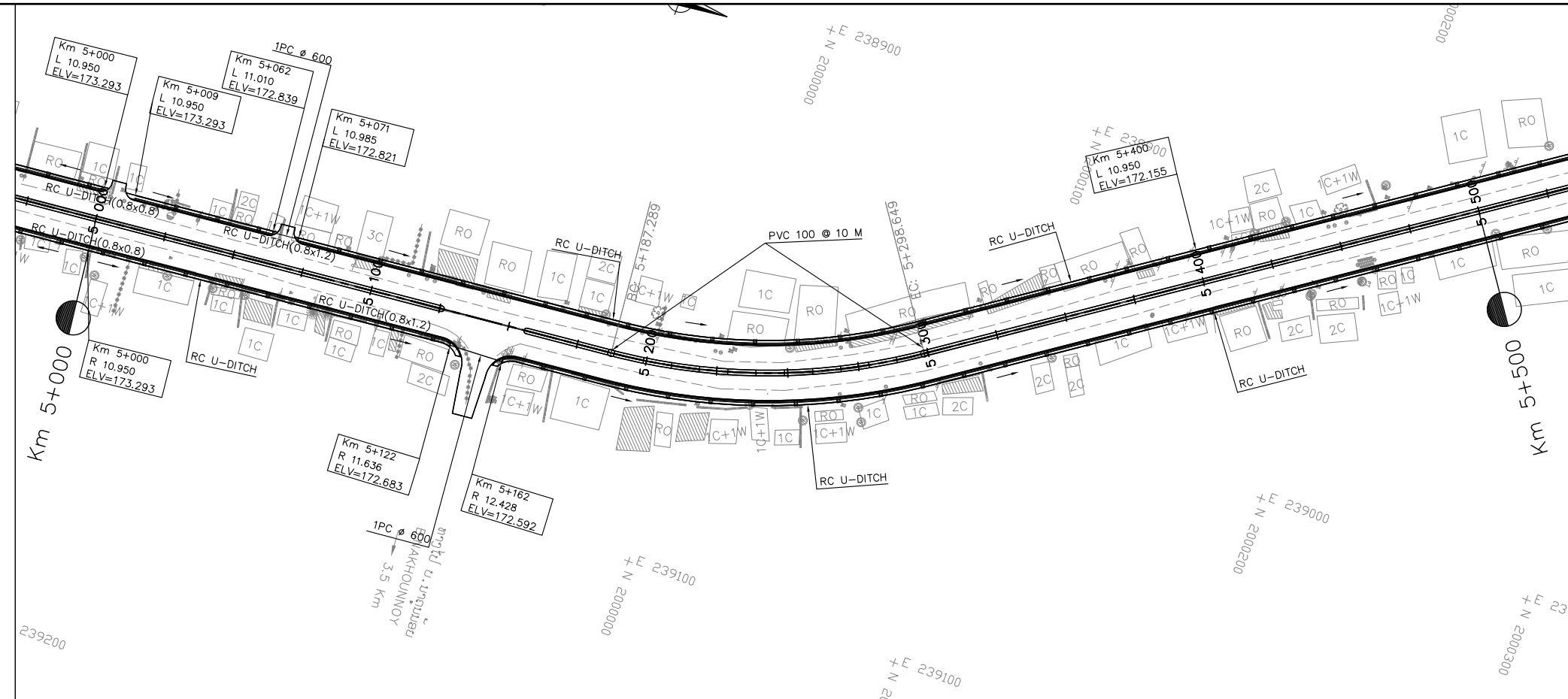


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 4+000 - 5+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-005
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000

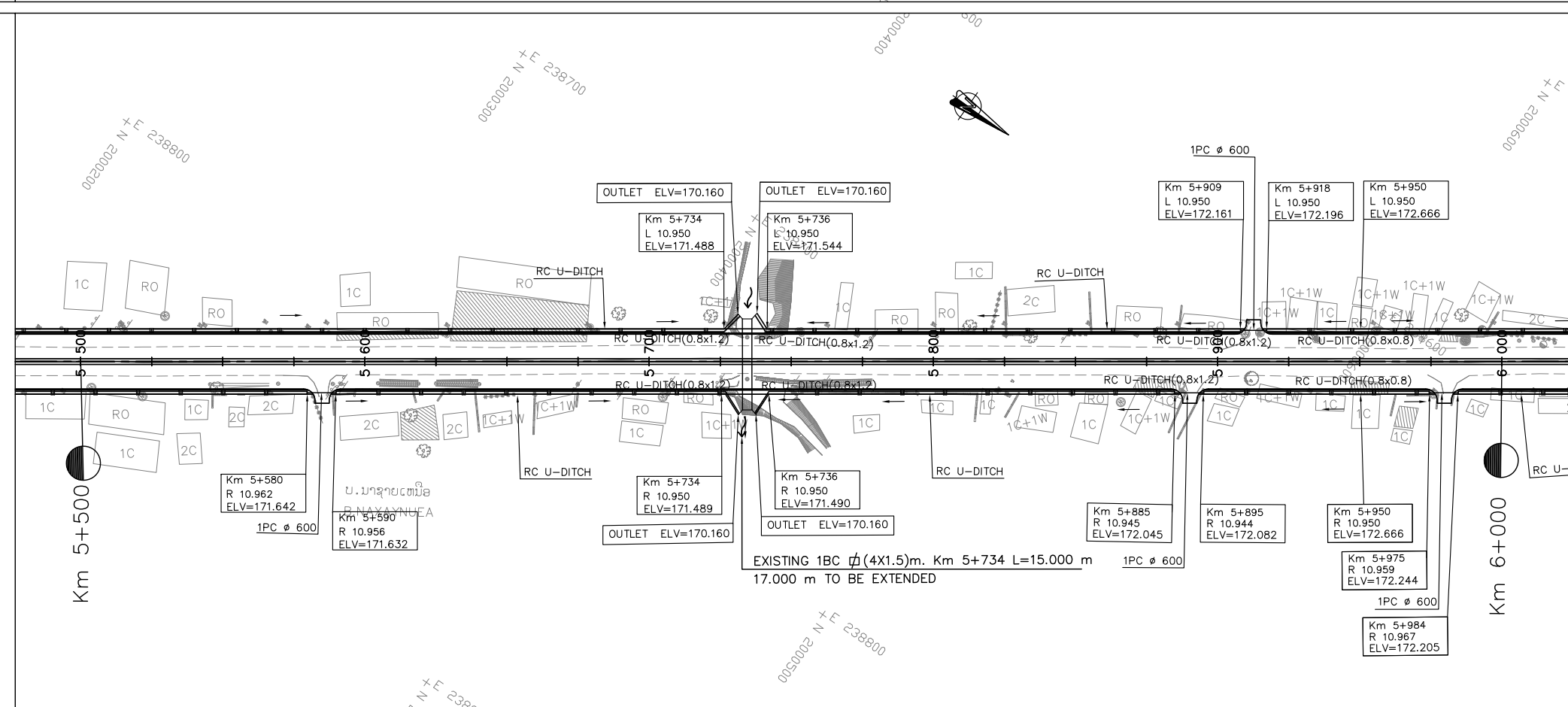
PLAN



NOTES :

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

PLAN



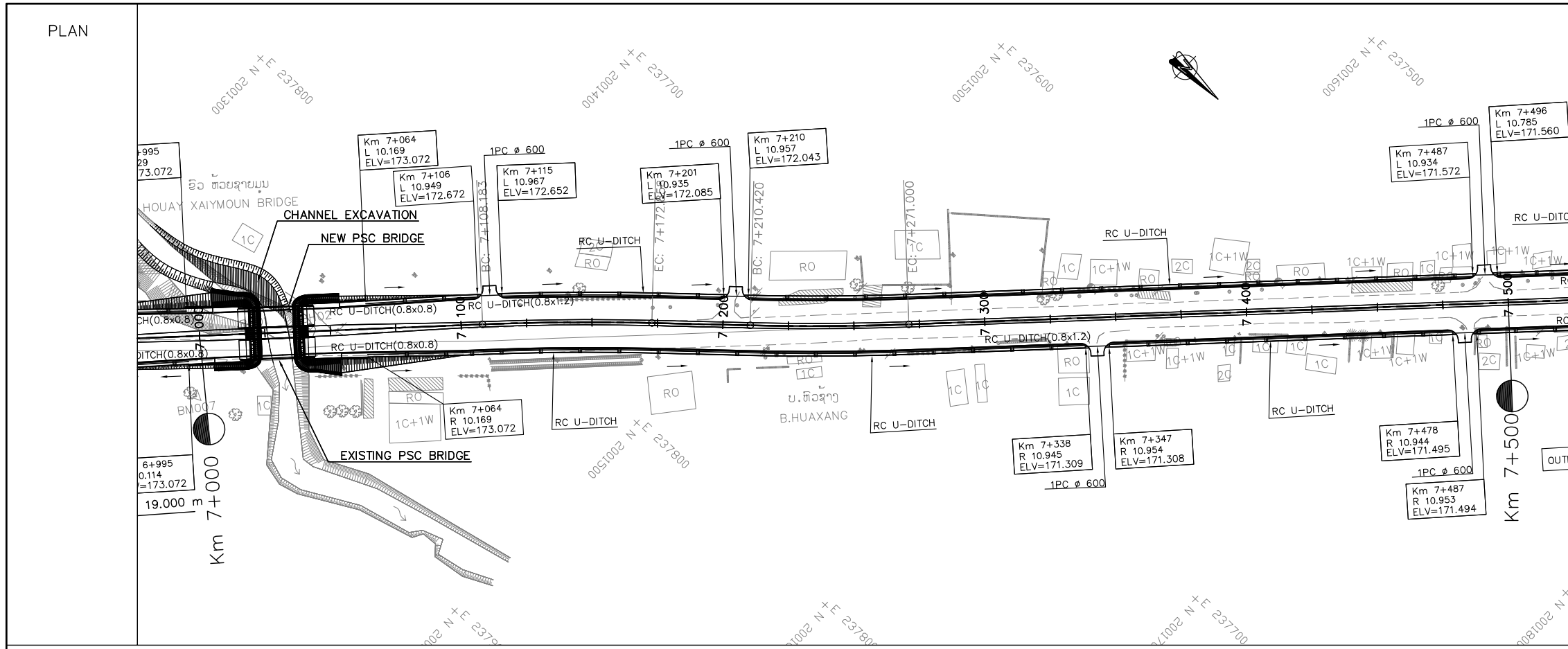
**ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ**  
**LAO TRANSPORT ENGINEERING CONSULTANT**

**NR 13N IMPROVEMENT AND MAINTENANCE PROJECT**  
**CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY**

**DRAINAGE PLAN**  
**Km 5+000 - 6+000**

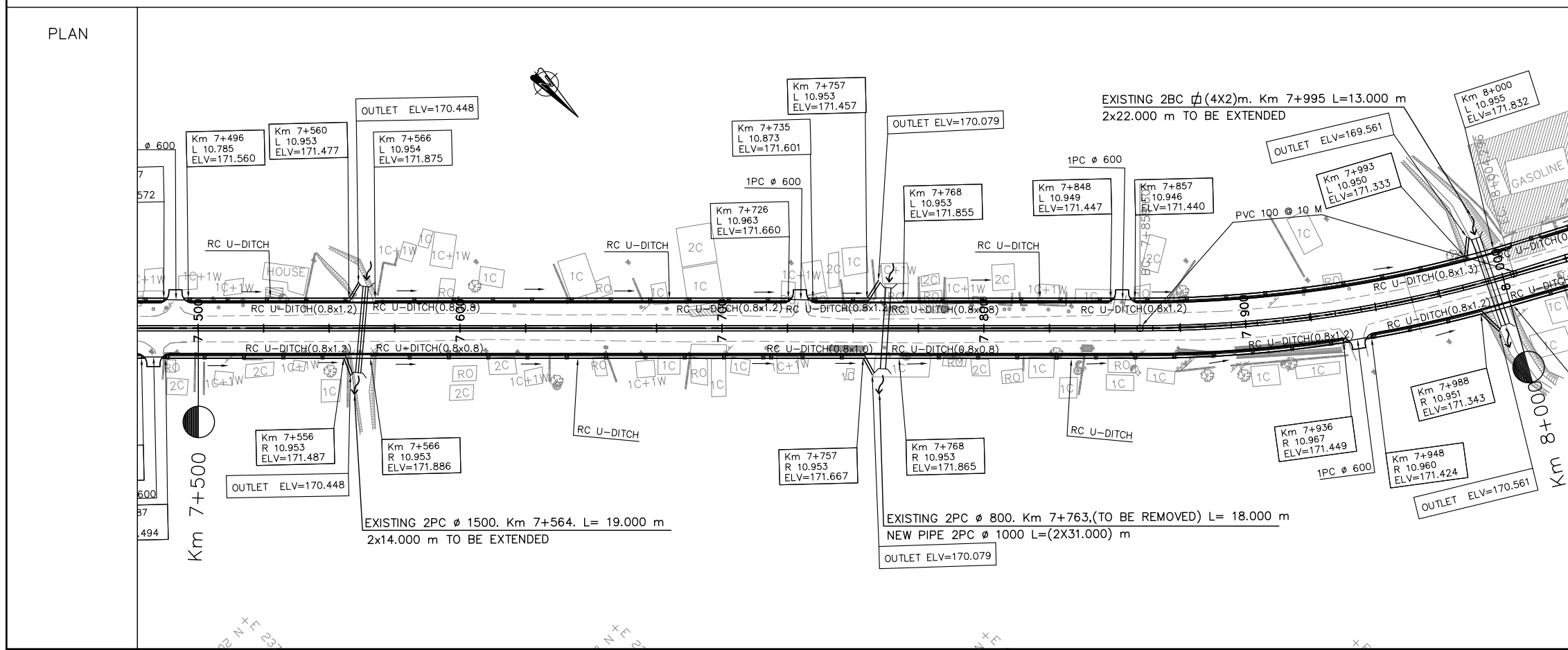
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE:
						SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-006
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000





**NOTES :**

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



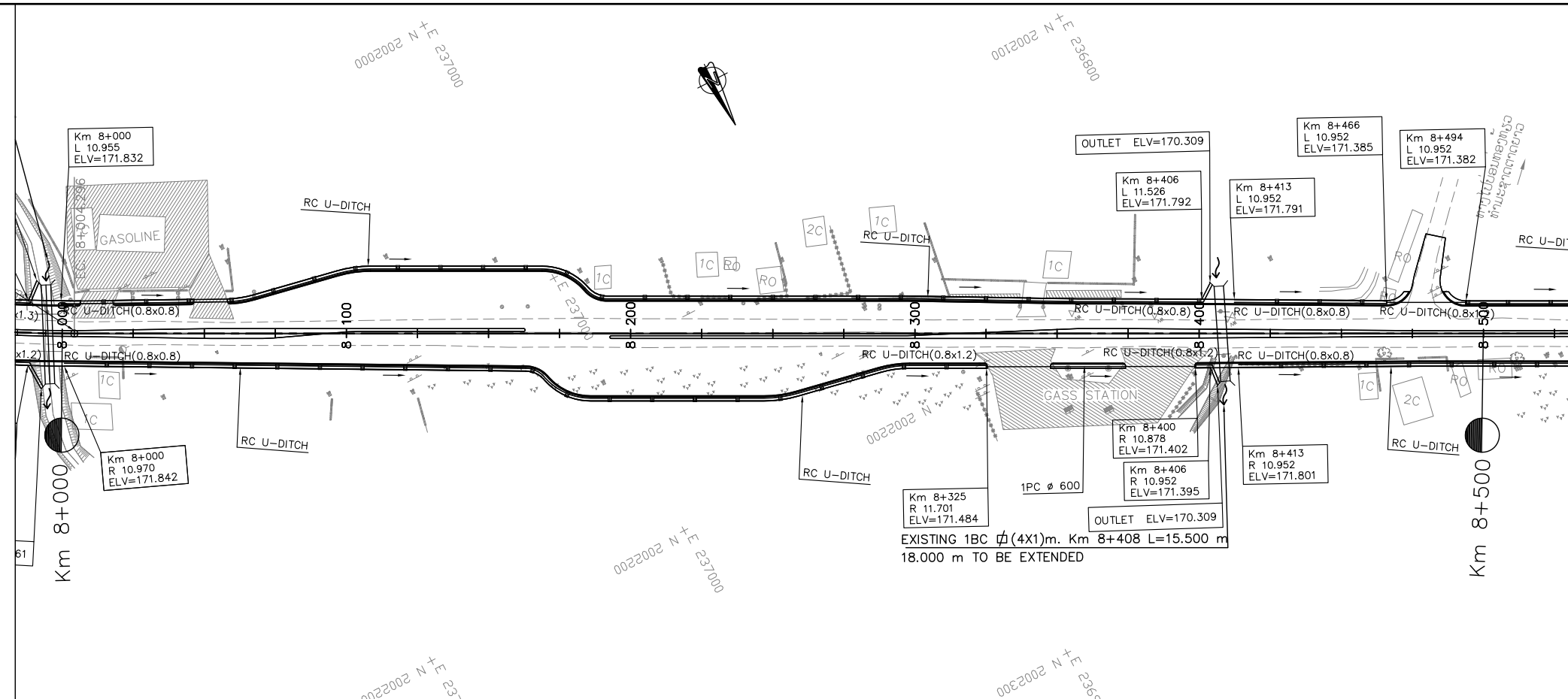
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

DRAINAGE PLAN  
Km 7+000 - 8+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-008
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000

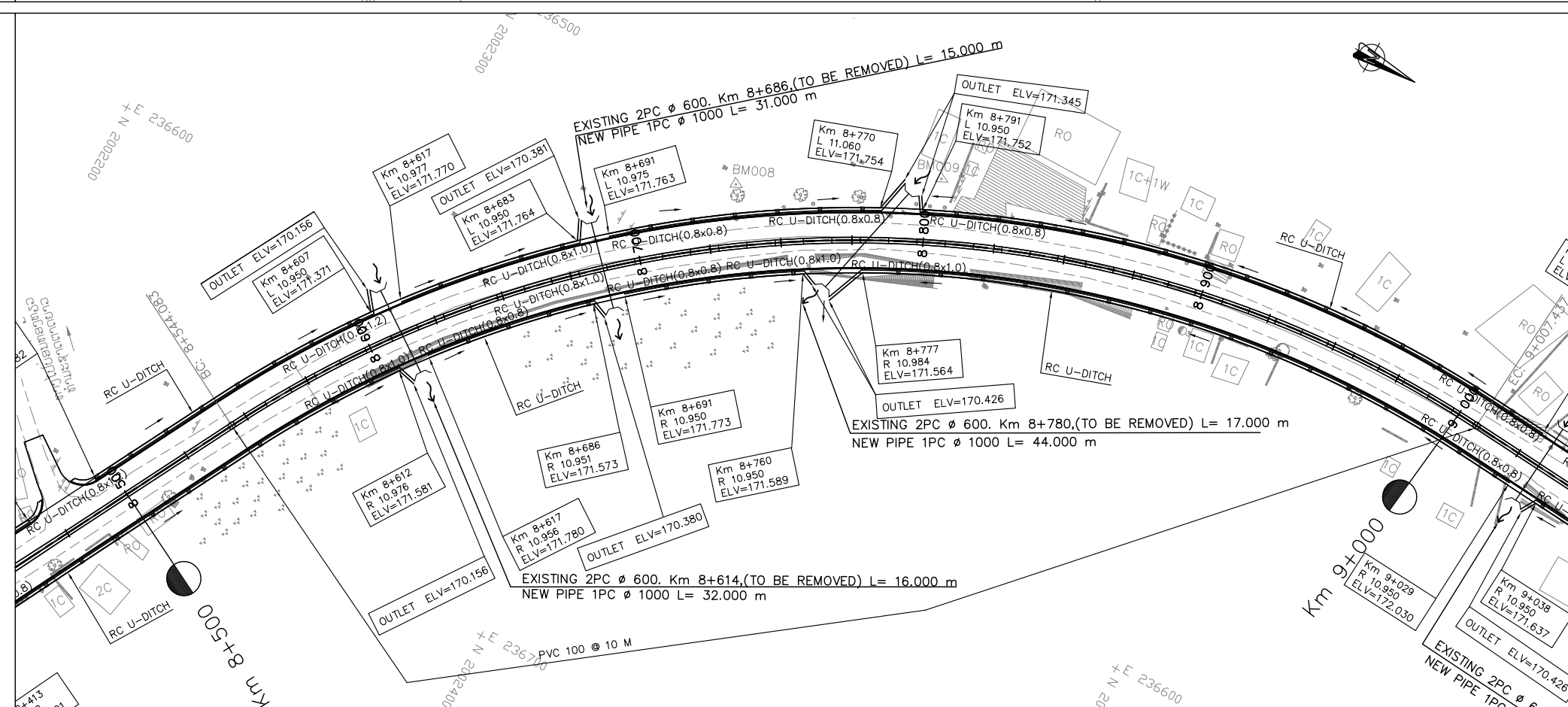
PLAN



NOTES :

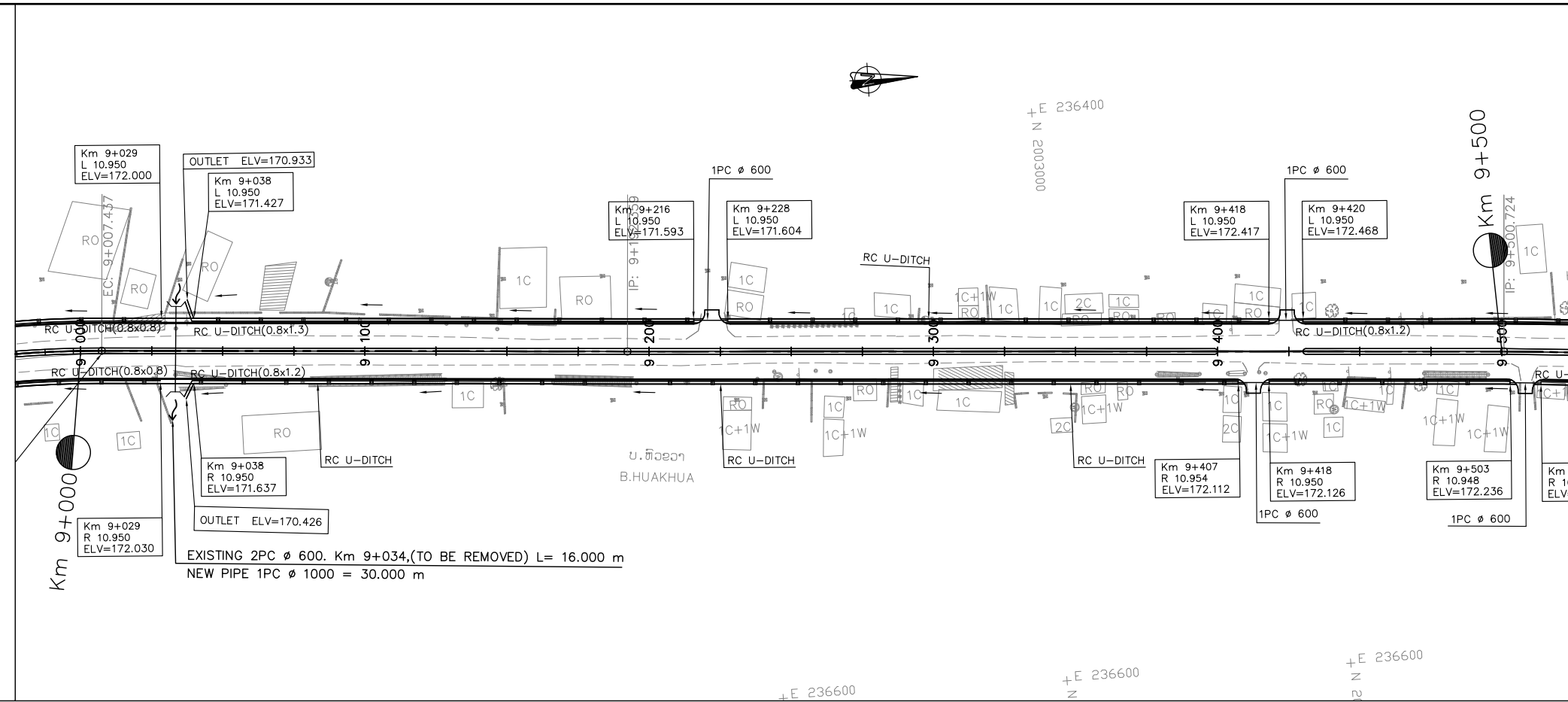
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

PLAN



<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY		REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
	DRAINAGE PLAN Km 8+000 - 9+000							DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: APRIL, 2018
								CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. DPL-009
								APPROVED	Mr. Vandy VORASACK	SCALE: 1:2000

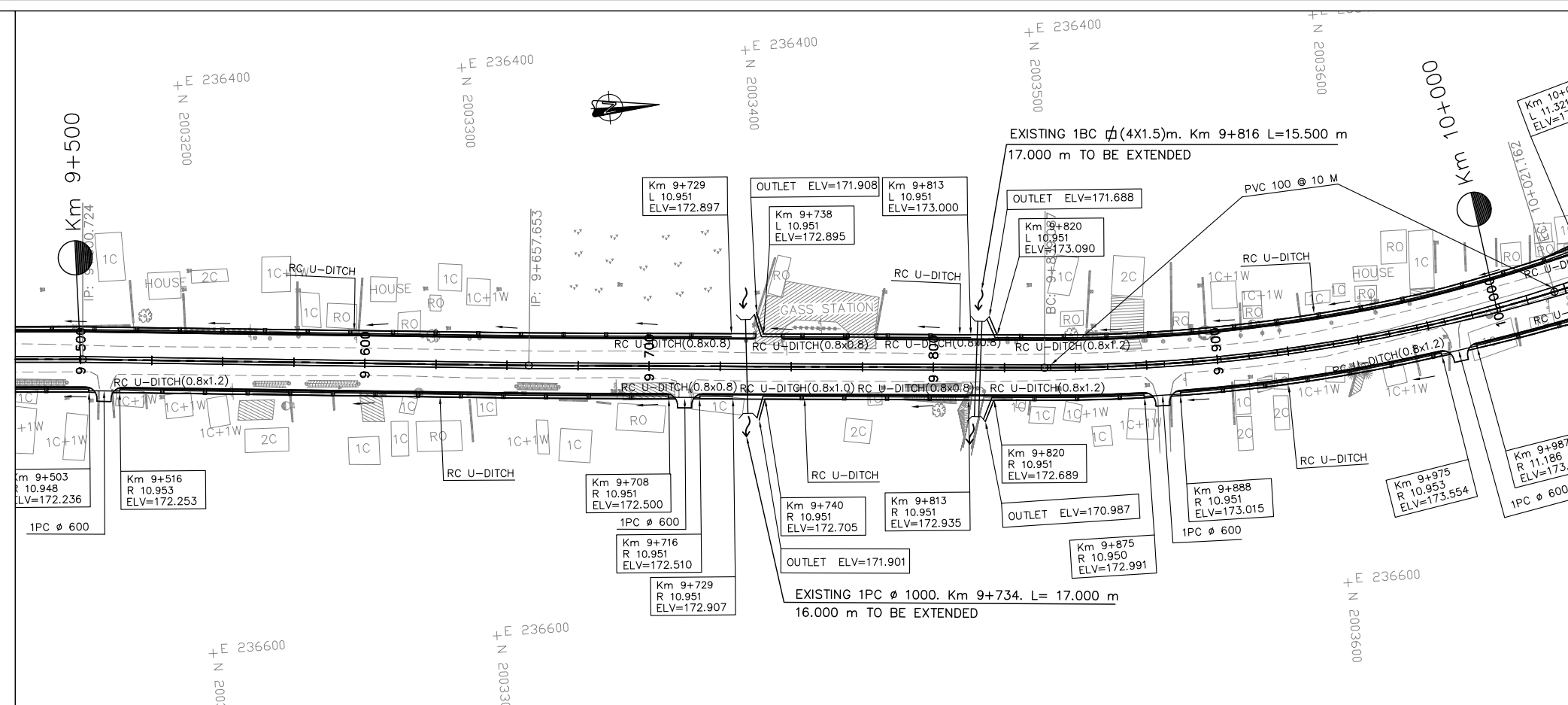
PLAN



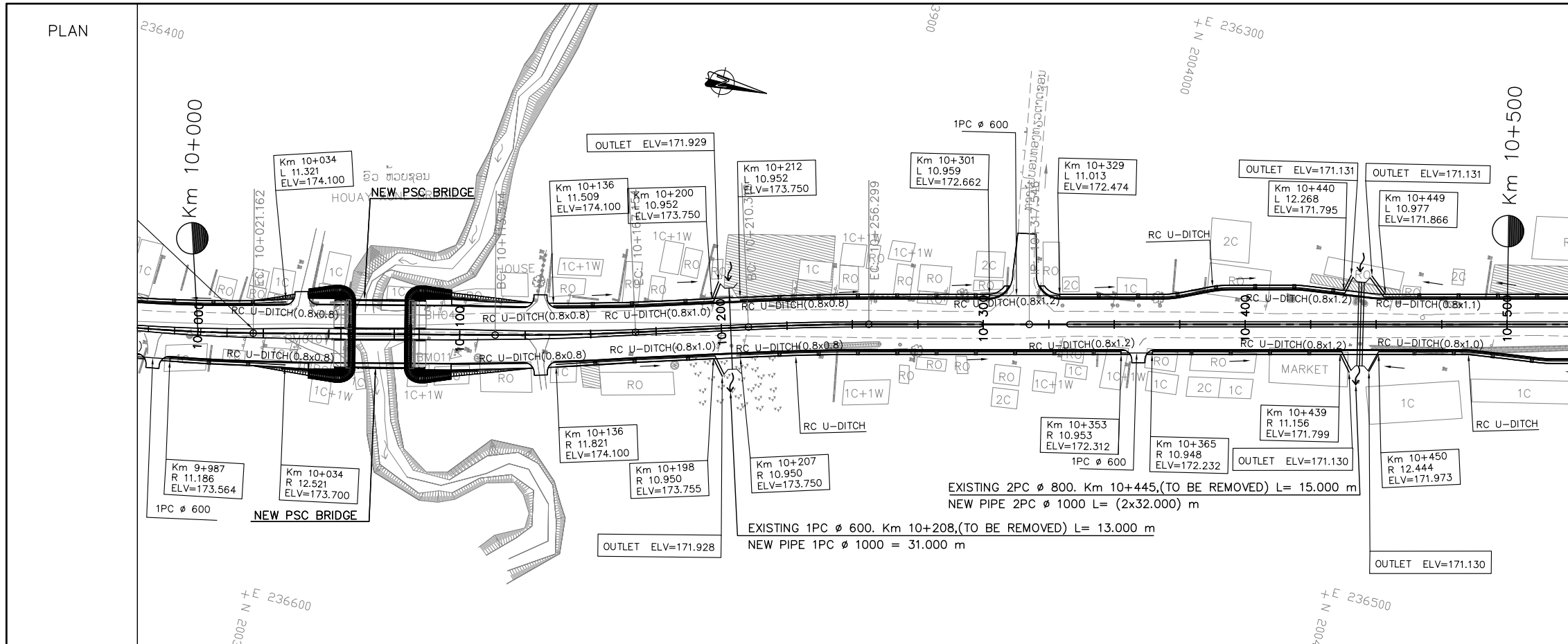
NOTES :

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE 60.60M SEE STANDARD DRAWINGS No. SSD-028,
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

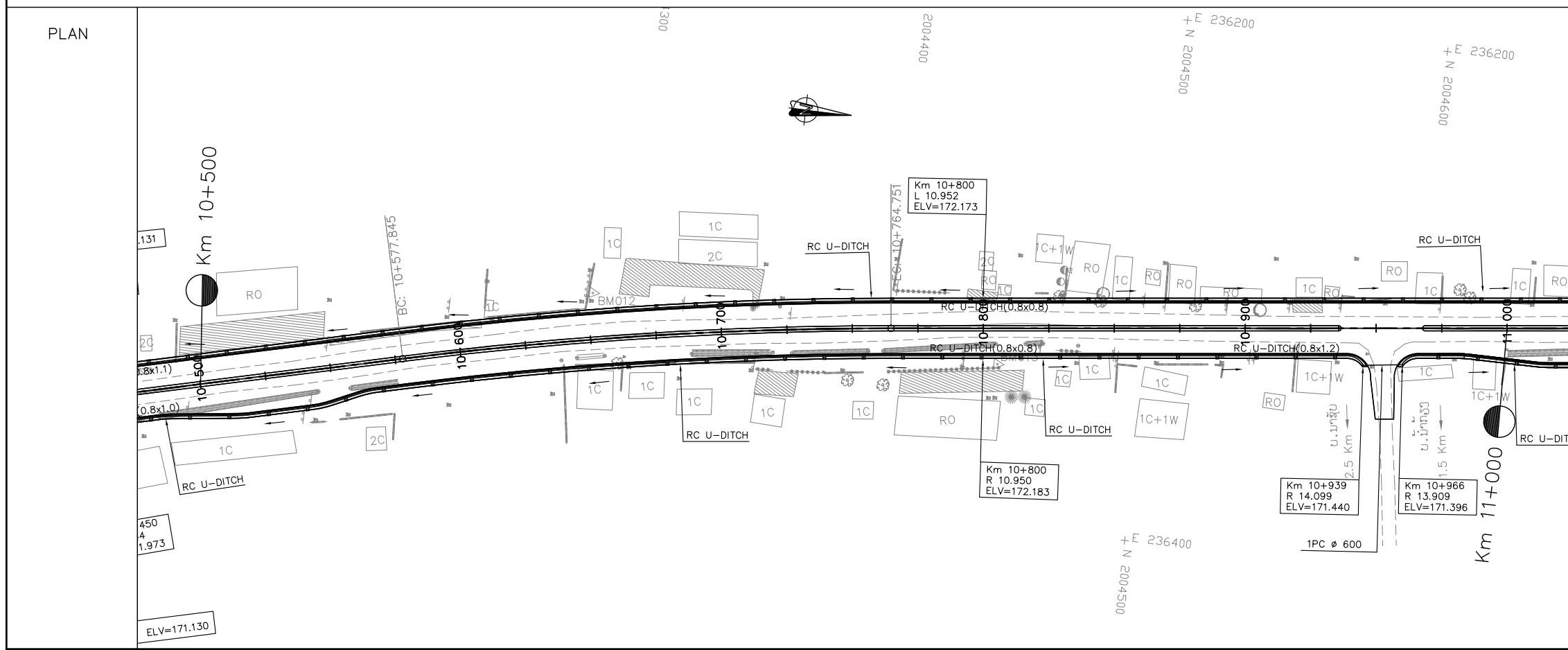
PLAN



<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY		REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
	DRAINAGE PLAN Km 9+000 - 10+000							DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: APRIL, 2018
								CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. DPL-010
								APPROVED	Mr. Vandy VORASACK	SCALE: 1:2000



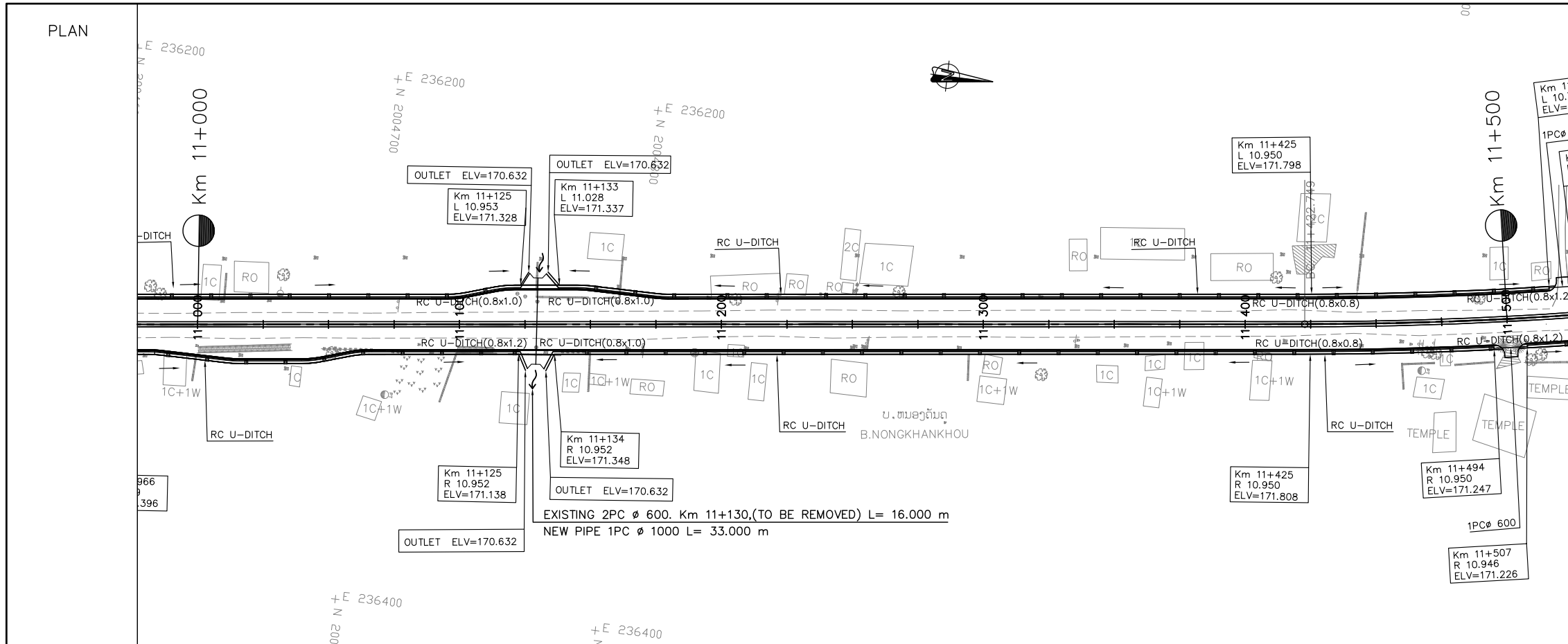
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



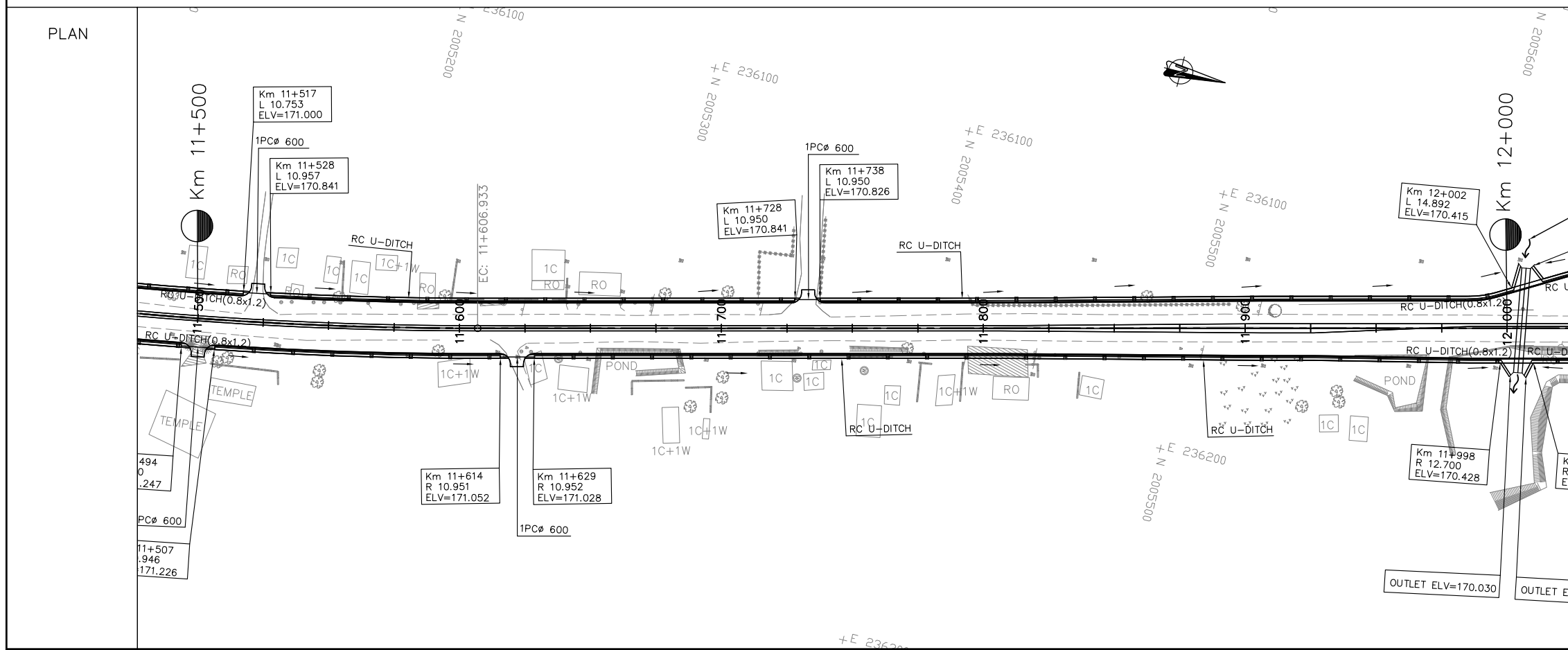
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
**DRAINAGE PLAN**  
Km 10+000 - 11+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-011
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



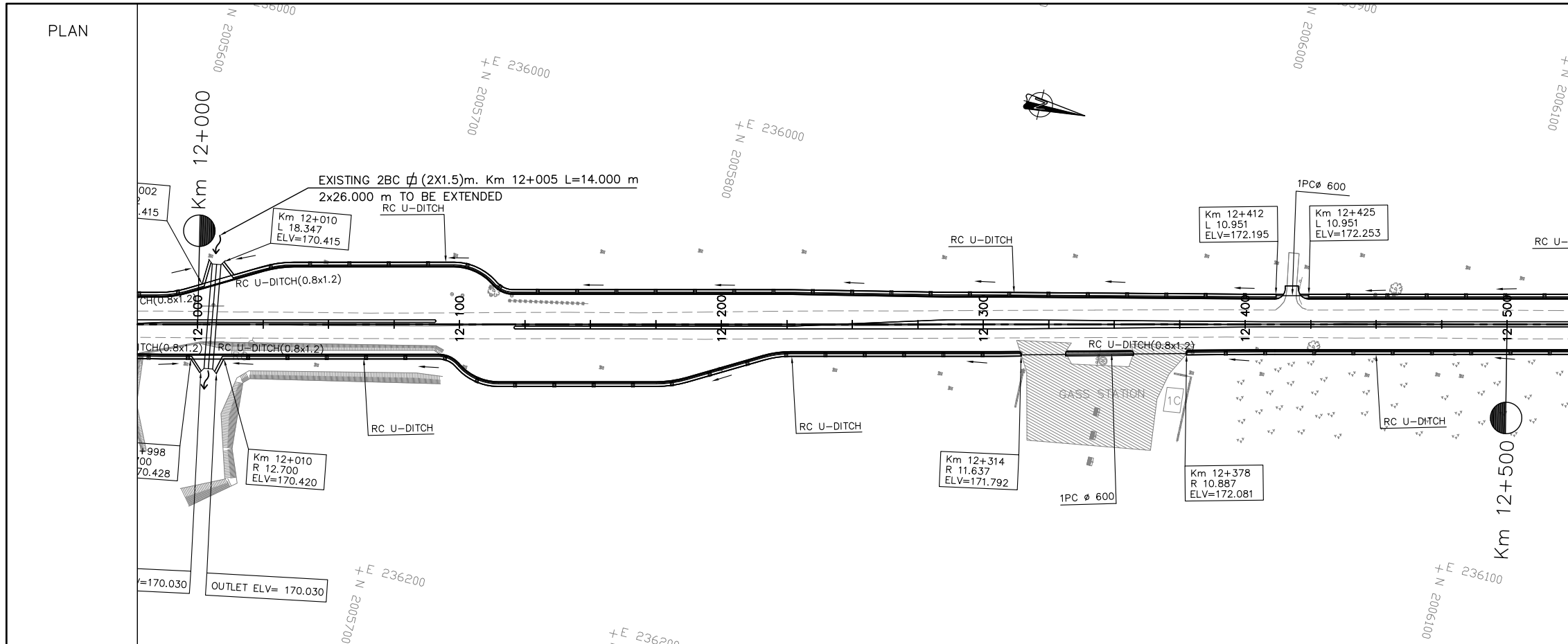
- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE  $\phi$ 0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



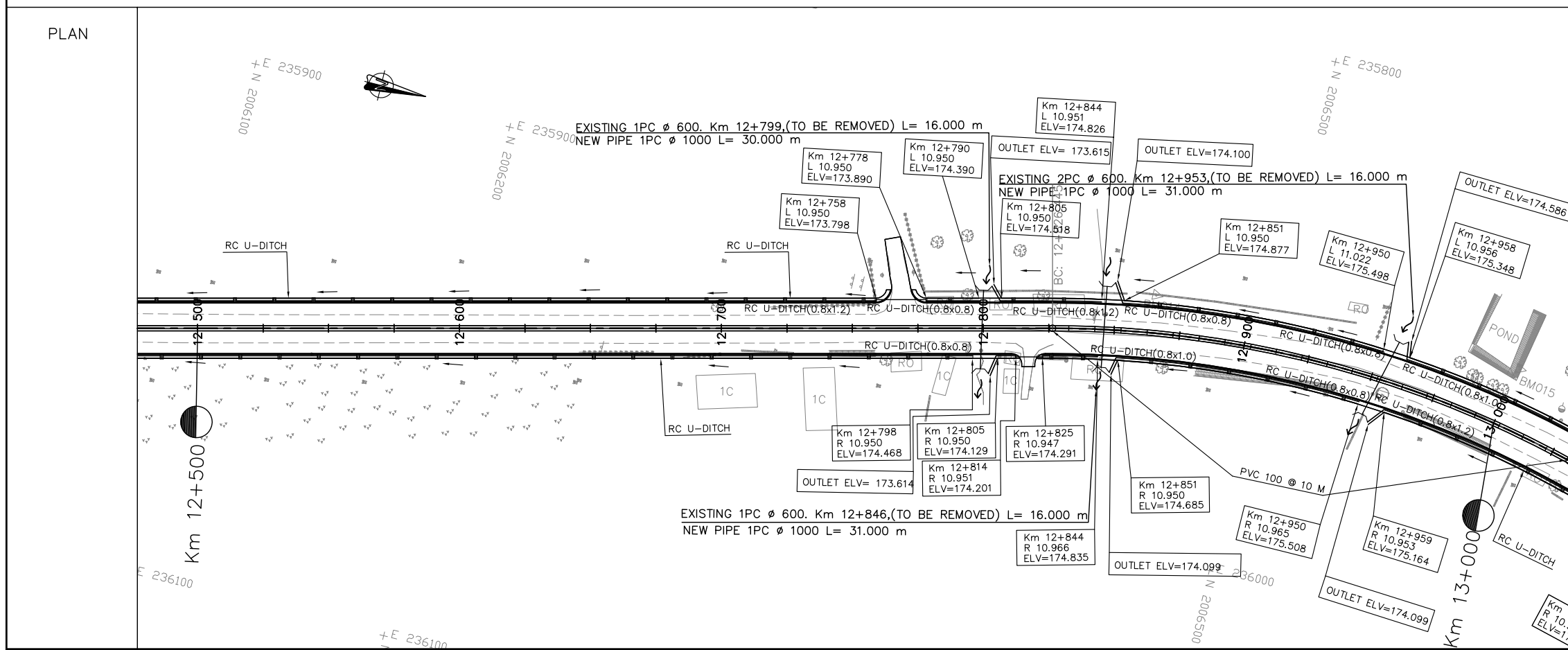
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 11+000 - 12+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-012
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

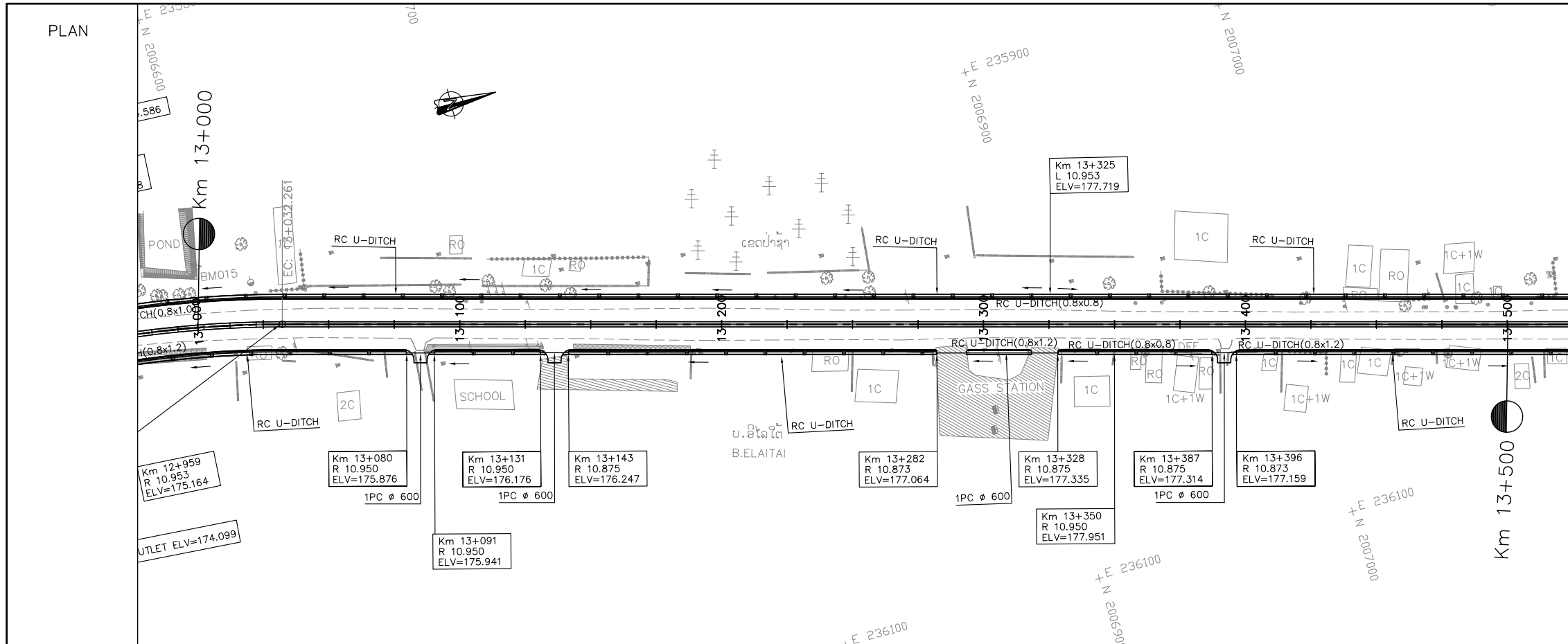


**ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ**  
**LAO TRANSPORT ENGINEERING CONSULTANT**

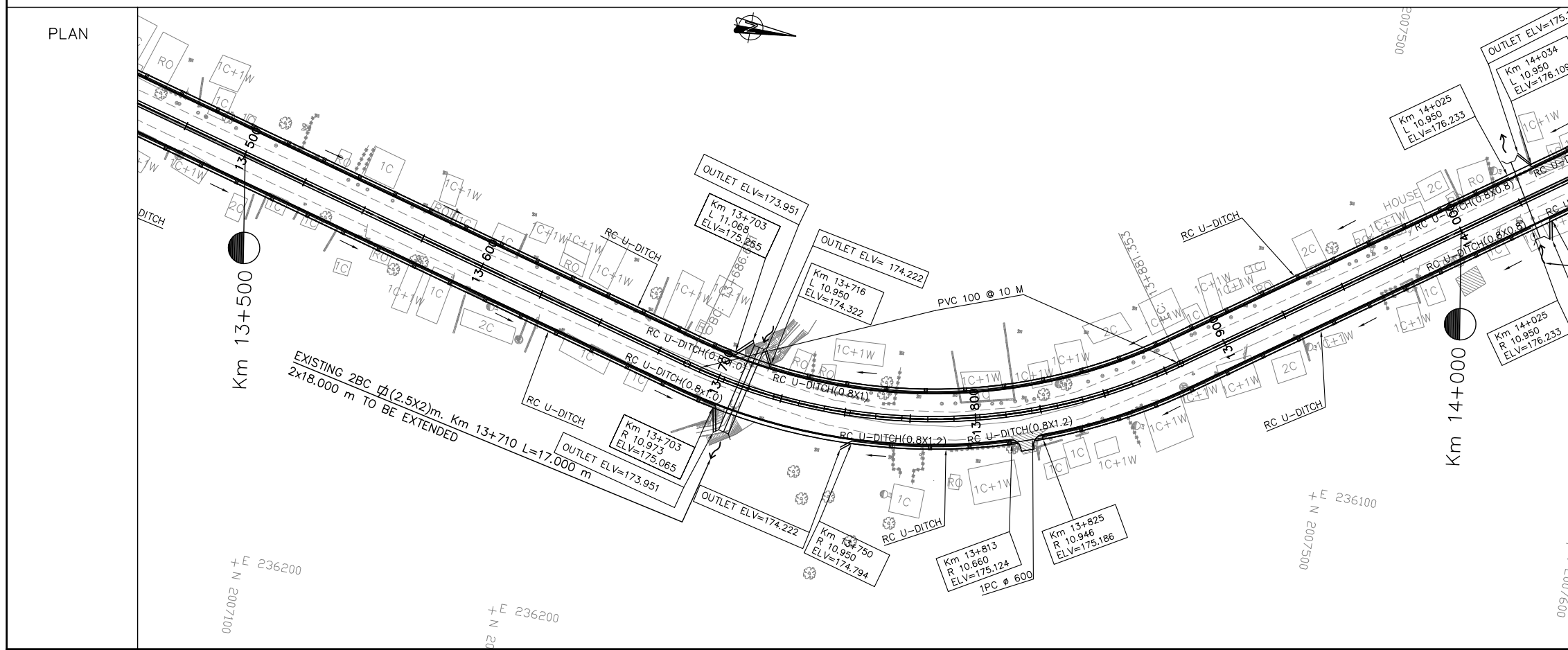
**NR 13N IMPROVEMENT AND MAINTENANCE PROJECT**  
**CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY**

**DRAINAGE PLAN**  
**Km 12+000 - 13+000**

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-013
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

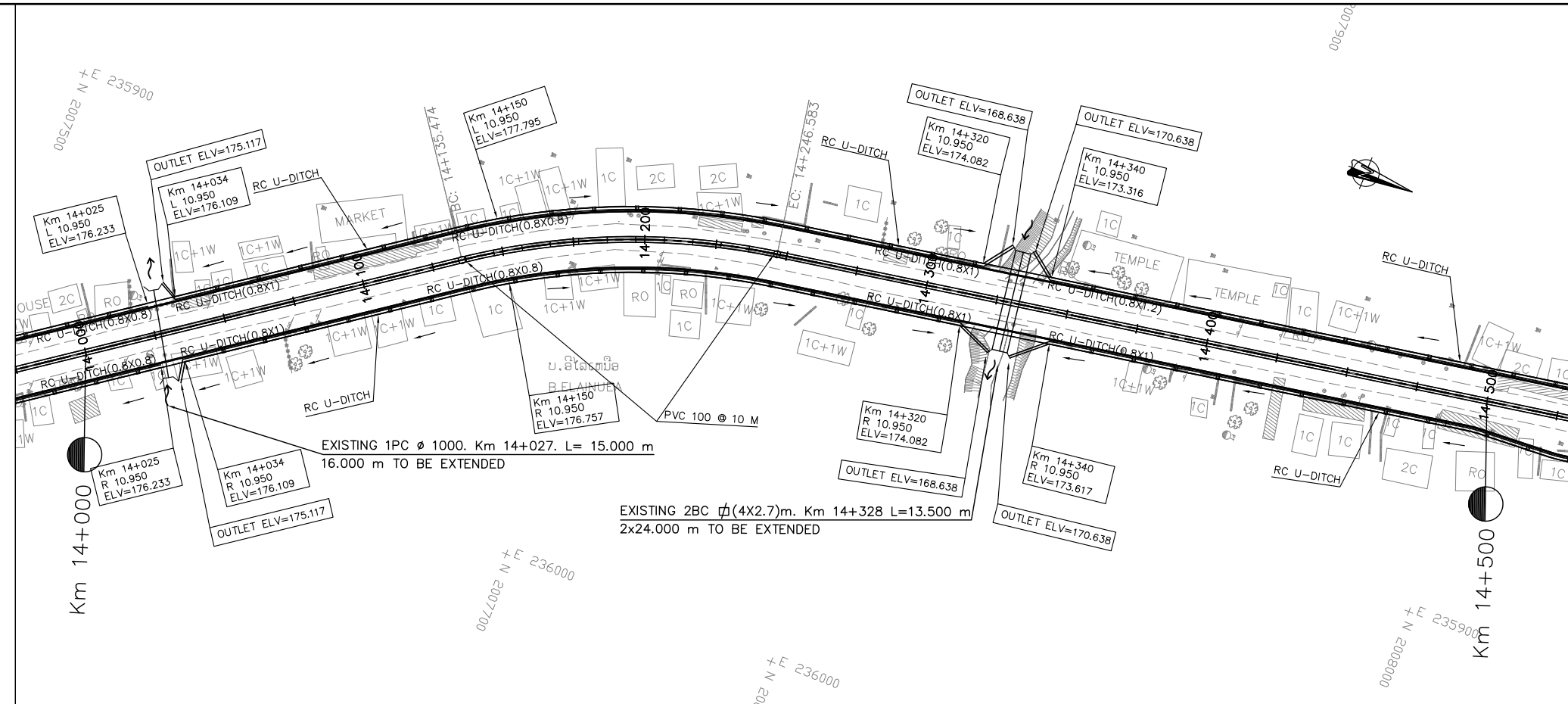


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 13+000 - 14+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-014
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000

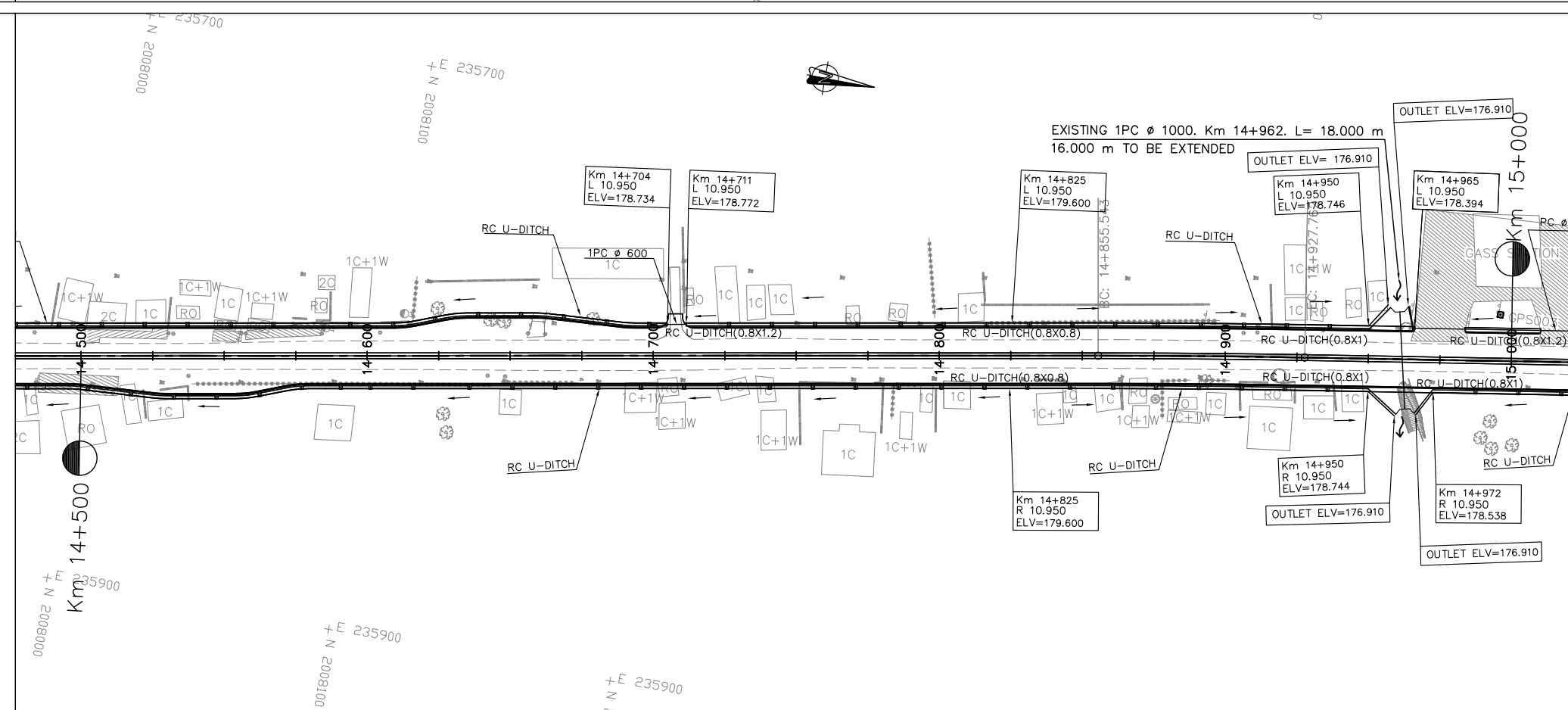
PLAN



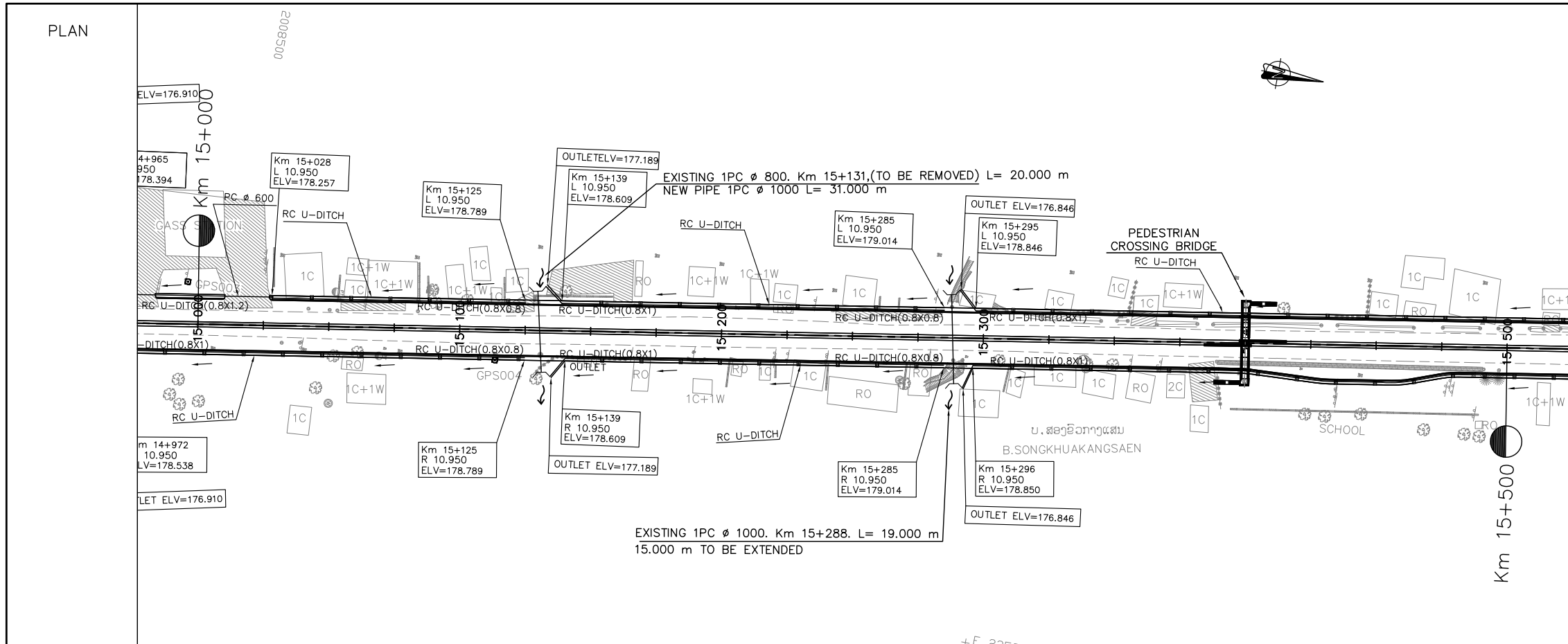
NOTES :

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE  $\phi$ 0.60M SEE STANDARD DRAWINGS No. SSD-028,
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

PLAN

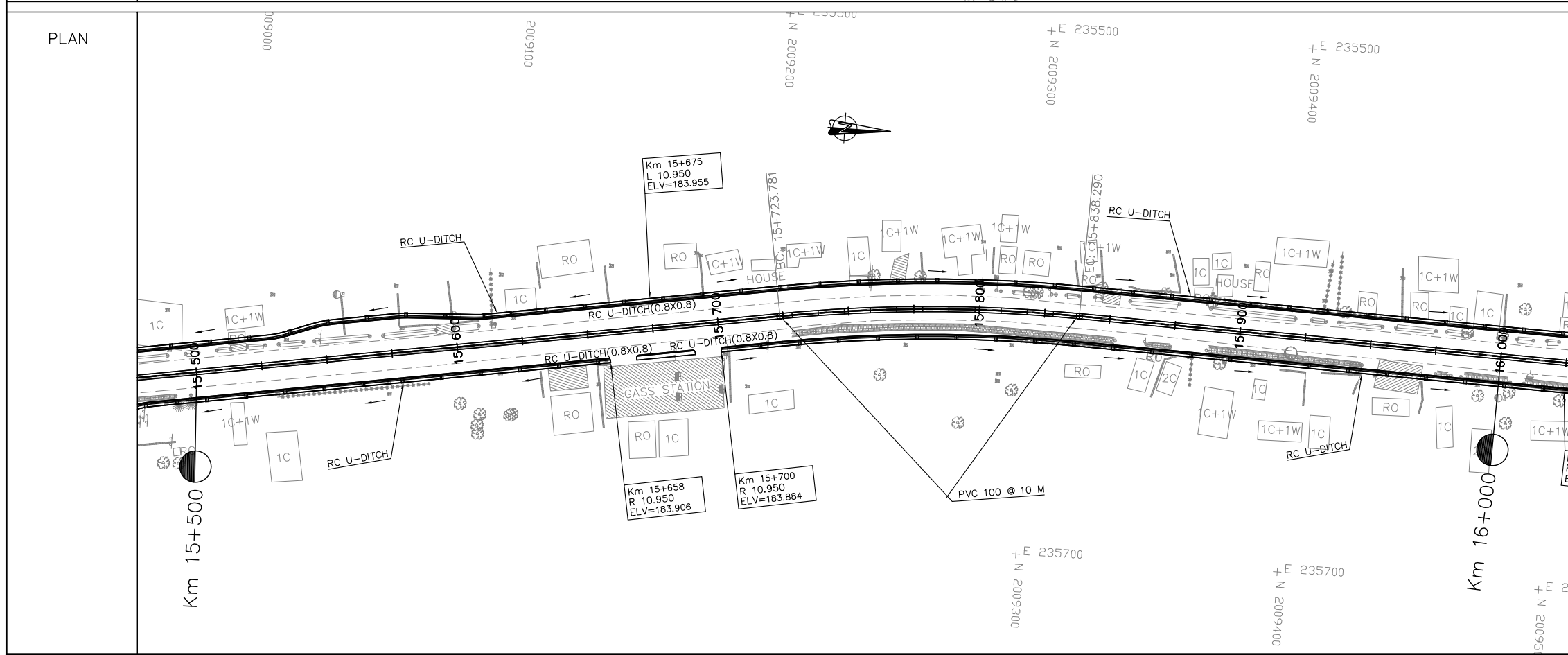


<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT		REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17	
	CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY							DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
	DRAINAGE PLAN							CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-015
	Km 14+000 - 15+000							APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



**NOTES :**

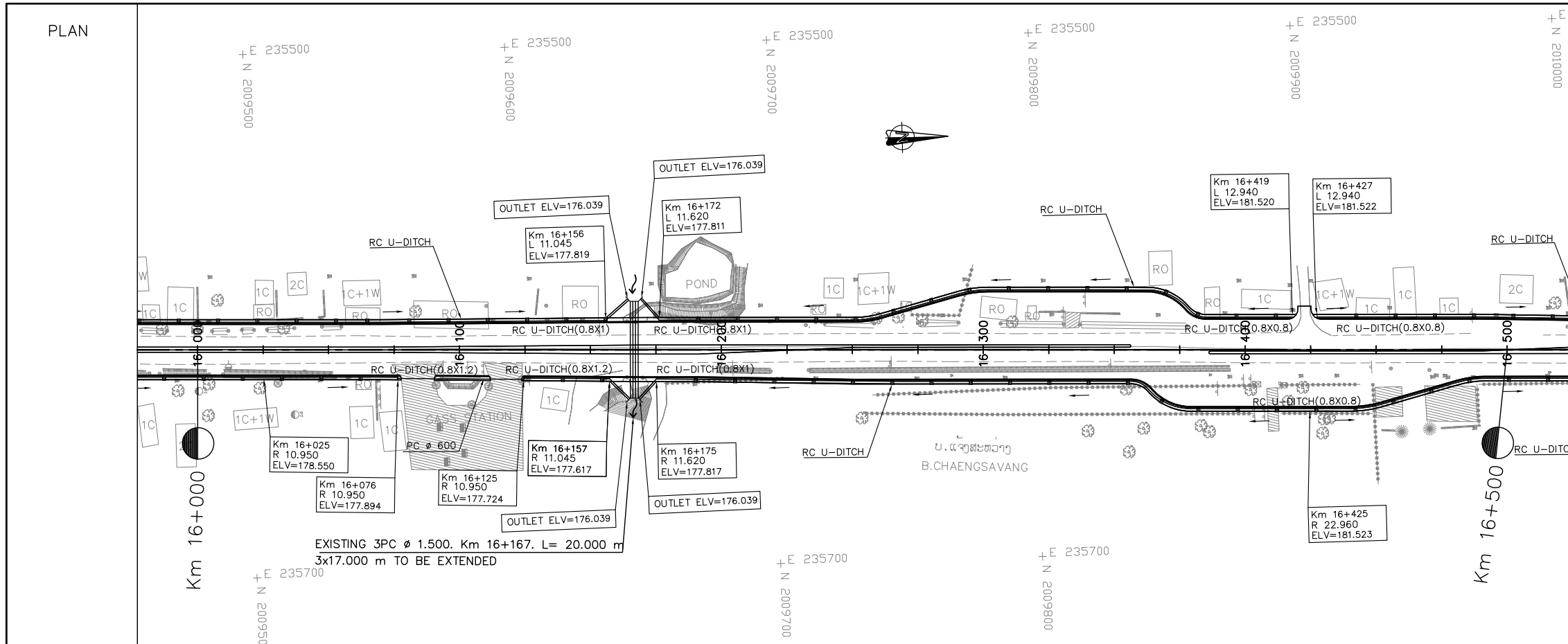
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



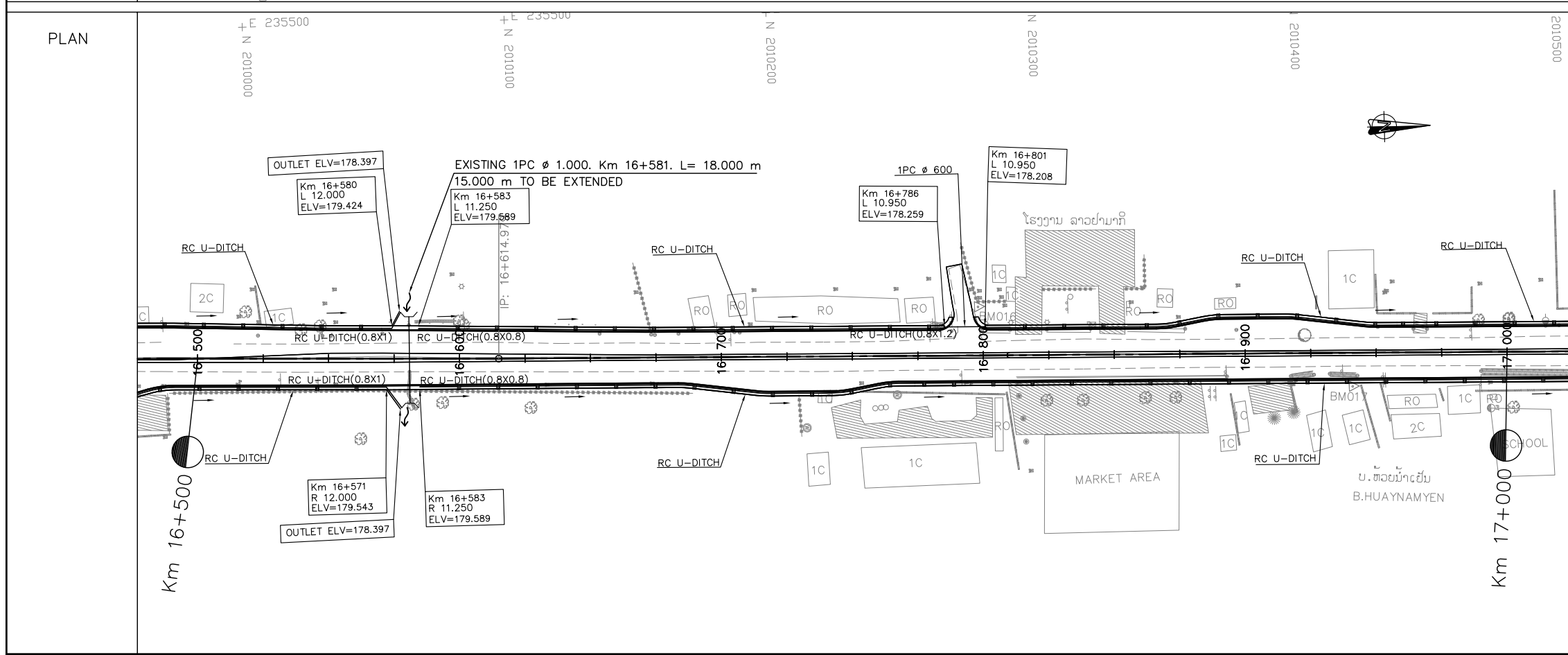
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
**DRAINAGE PLAN**  
Km 15+000 - 16+000

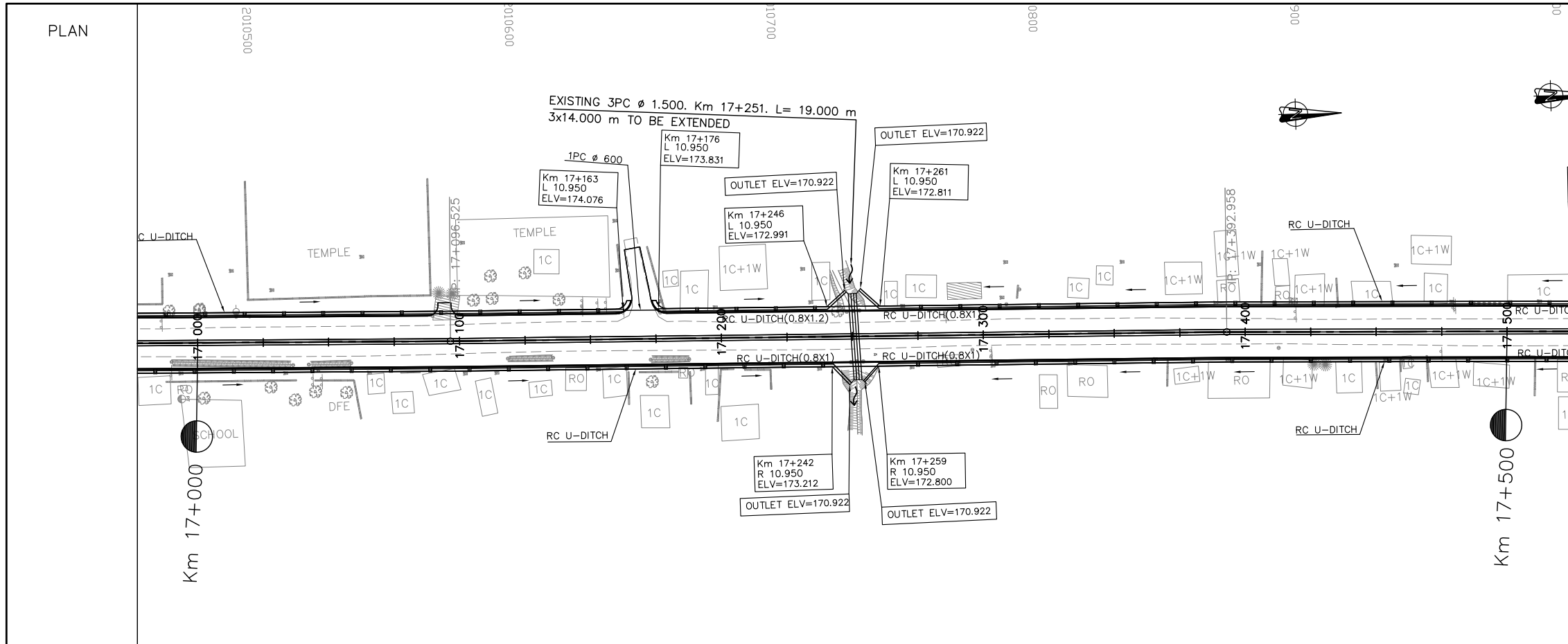
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-016
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000



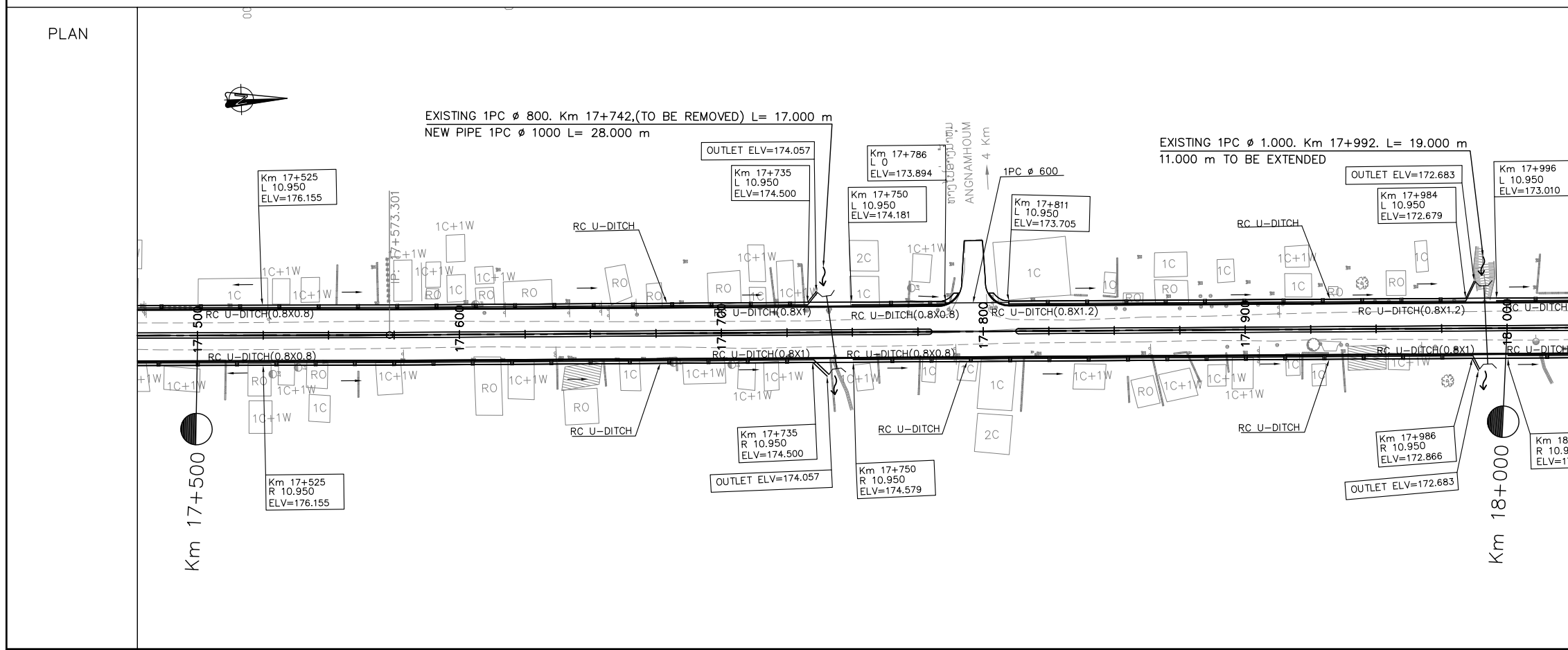
- NOTES :
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE  $\phi$ 0.60M SEE STANDARD DRAWINGS No. SSD-028.
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.



<p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	<p>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY</p> <p><b>DRAINAGE PLAN</b> Km 16+000 - 17+000</p>	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17
						DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: APRIL, 2018	
						CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. DPL-017	
						APPROVED	Mr. Vandy VORASACK	SCALE: 1:2000	



- NOTES :**
- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
  - 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
  - 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
  - 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
  - 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
  - 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
  - 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028,
  - 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
  - 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

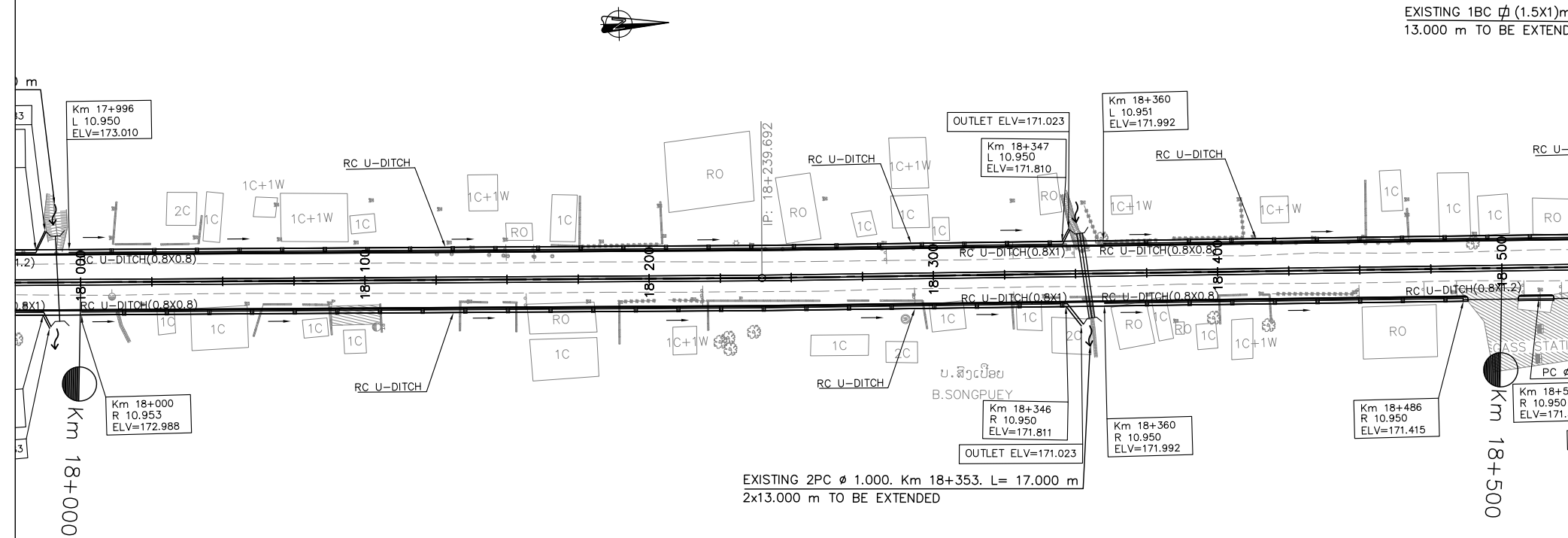


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 17+000 - 18+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-018
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000

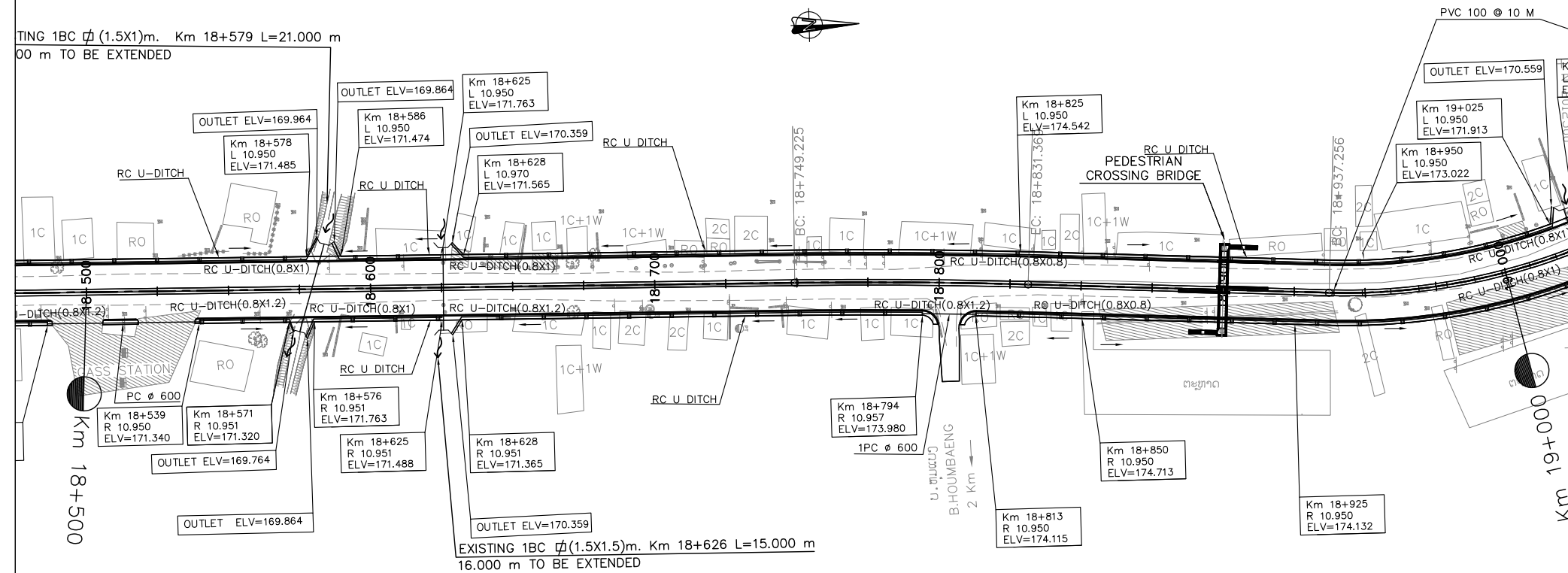
PLAN



NOTES :

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028.
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

PLAN

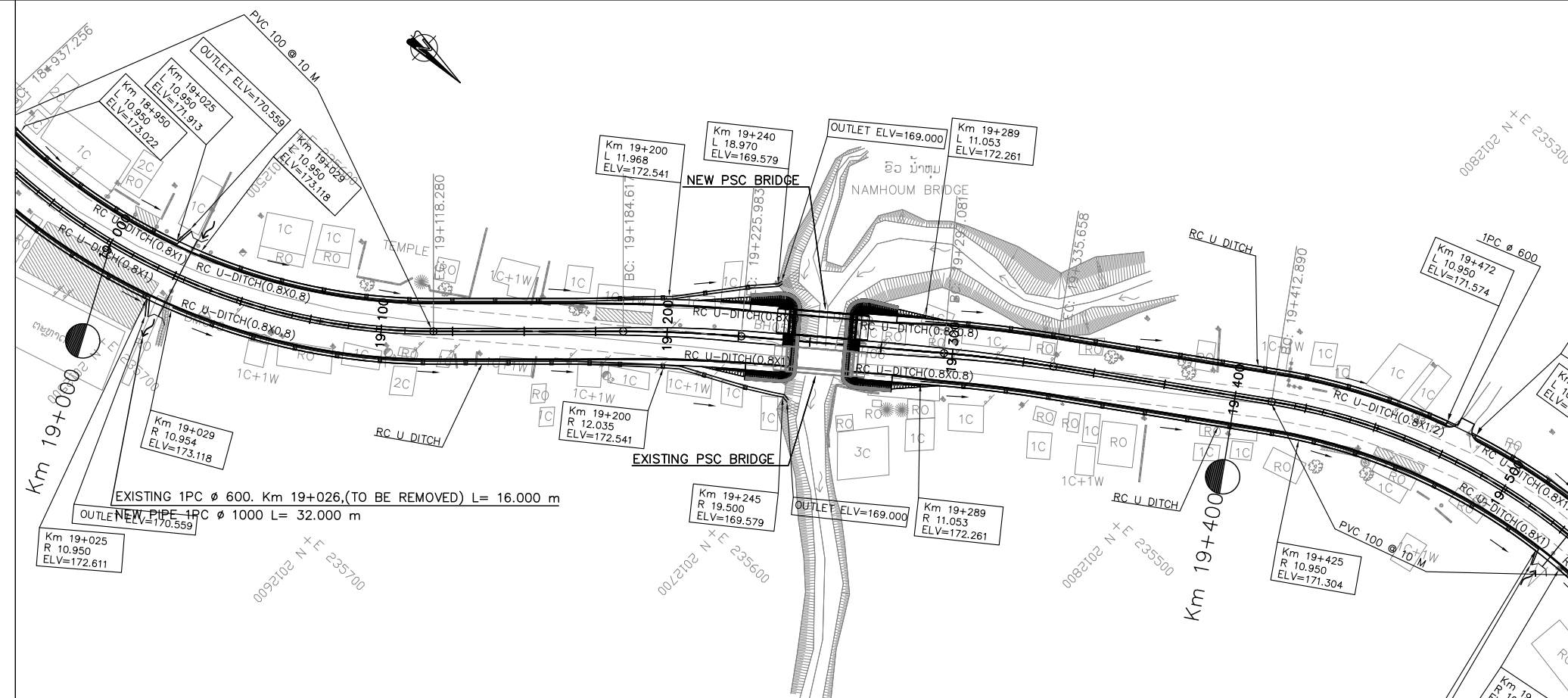


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 18+000 - 19+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-019
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000

PLAN



NOTES :

- 1) ABBREVIATIONS AND SYMBOLS SEE DRAWING NO. RSA-001,002
- 2) DETAILED DESIGN FOR JUNCTION AND ACCESS DETAILS , SEE STANDARD DRAWINGS.
- 3) ACCESS ROAD TYPE SHALL BE CONSTRUCTED AS ACTUAL LOCATION OR DIRECTED BY THE ENGINEER.
- 4) DETAILS OF PAVEMENT STRUCTURE SEE DRAWINGS No. RTC-001, RTC-002,
- 5) DIMENSIONS OF SIDE DITCH ARE SHOW ON THE STANDARD DRAWING. No. SSD-027,
- 6) DETAIL OF SIDE DITCHES SEE LIST OF SIDE DRAINS STRUCTURES DRW. No. LDD-001 TO LDD-005.
- 7) DETAIL OF INLET GUTTER AND MANHOLE SHALL BE CONSTRUCTED AT 15 m INTERVAL UNLESS ACCESS AND JUNCTION SHALL BE INSTALLED R.C.PIPE Ø0.60M SEE STANDARD DRAWINGS No. SSD-028.
- 8) INLET/OUTLET OF CULVERTS WOULD BE CLEANED AND EXCAVATED AT LEAST 20 METER LONG.
- 9) DETAIL OF CULVERTS SEE LIST OF CULVERTS. DRW. No. LDD-006 TO LDD-007.

PLAN

ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
DRAINAGE PLAN  
Km 19+000 - 19+400

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. DPL-020
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:2000

# LIST OF SIDE DRAINS STRUCTURE

LIST OF SIDE DRAINS STRUCTURES

No.	STATION (KM)	LENGTH			SIDE	No.	STATION (KM)	LENGTH			SIDE	REMARK
		DITCH LINNING	RC-DITCH WITH COVER	PIPE $\phi$ 60				DITCH LINNING	RC-DITCH WITH COVER	PIPE $\phi$ 60		
		(m)	(m)	(m)				(m)	(m)	(m)		
1	0+000 - 0+212	-	212.00	-	L	1	0+000 - 0+052	-	52.00	-	R	
2	0+212 - 0+232	-	-	20.00	L	2	0+070 - 0+276	-	206.00	-	R	
3	0+232 - 0+450	-	218.00	-	L	3	0+276 - 0+287	-	-	11.00	R	
4	0+450 - 0+678	-	228.00	-	L	4	0+287 - 0+317	-	30.00	-	R	
5	0+685 - 0+709	-	24.00	-	L	5	0+317 - 0+329	-	-	12.00	R	
6	0+717 - 1+324	-	607.00	-	L	6	0+239 - 0+682	-	443.00	-	R	
7	1+324 - 1+334	-	-	10.00	L	7	0+685 - 0+709	-	24.00	-	R	
8	1+334 - 1+475	-	141.00	-	L	8	0+724 - 1+327	-	603.00	-	R	
9	1+475 - 1+525	-	50.00	-	L	9	1+327 - 1+342	-	-	15.00	R	
10	1+525 - 1+542	-	-	17.00	L	10	1+342 - 1+450	-	108.00	-	R	
11	1+542 - 1+999	-	457.00	-	L	11	1+450 - 1+680	-	230.00	-	R	
12	2+008 - 2+171	-	163.00	-	L	12	1+680 - 1+741	-	-	61.00	R	
13	2+171 - 2+181	-	-	10.00	L	13	1+741 - 1+995	-	254.00	-	R	
14	2+181 - 2+250	-	69.00	-	L	14	2+005 - 2+218	-	213.00	-	R	
15	2+250 - 2+310	-	60.00	-	L	15	2+218 - 2+232	-	-	14.00	R	
16	2+310 - 2+323	-	-	13.00	L	16	2+232 - 2+250	-	18.00	-	R	
17	2+323 - 2+415	-	92.00	-	L	17	2+250 - 2+320	-	70.00	-	R	
18	2+420 - 2+831	-	411.00	-	L	18	2+320 - 2+329	-	-	9.00	R	
19	2+843 - 3+520	-	677.00	-	L	19	2+329 - 2+412	-	83.00	-	R	
20	3+520 - 3+539	-	-	19.00	L	20	2+420 - 2+550	-	130.00	-	R	
21	3+539 - 3+606	-	67.00	-	L	21	2+550 - 2+600	-	-	50.00	R	
22	3+614 - 4+283	-	669.00	-	L	22	2+600 - 2+835	-	235.00	-	R	
23	4+283 - 4+305	-	-	22.00	L	23	2+843 - 3+279	-	436.00	-	R	
24	4+305 - 4+325	-	20.00	-	L	24	3+279 - 3+337	-	-	58.00	R	
25	4+325 - 4+521	-	196.00	-	L	25	3+337 - 3+510	-	173.00	-	R	
26	4+521 - 4+540	-	-	19.00	L	26	3+533 - 3+606	-	73.00	-	R	
27	4+540 - 4+620	-	80.00	-	L	27	3+614 - 4+184	-	570.00	-	R	
28	4+624 - 4+721	-	97.00	-	L	28	4+184 - 4+199	-	-	15.00	R	
29	4+721 - 4+729	-	-	8.00	L	29	4+199 - 4+325	-	126.00	-	R	
30	4+729 - 4+786	-	57.00	-	L	30	4+325 - 4+377	-	52.00	-	R	
31	4+786 - 4+795	-	-	9.00	L	31	4+377 - 4+390	-	-	13.00	R	
32	4+795 - 4+911	-	116.00	-	L	32	4+390 - 4+565	-	175.00	-	R	
33	4+911 - 4+920	-	-	9.00	L	33	4+565 - 4+578	-	-	13.00	R	
34	4+920 - 5+000	-	80.00	-	L	34	4+578 - 4+620	-	42.00	-	R	



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
LIST OF SIDE DRAINS STRUCTURES  
Km 0+000 - Km 5+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL , 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. LDD-001
			APPROVED	Mr. Vandy VORASACK		SCALE: USE SCALE

LIST OF SIDE DRAINS STRUCTURES

No.	STATION	LENGTH			SIDE	No.	STATION	LENGTH			SIDE	REMARK
	(KM)	DITCH LINNING	RC-DITCH WITH COVER	PIPE Ø 60			(KM)	DITCH LINNING	RC-DITCH WITH COVER	PIPE Ø 60		
		(m)	(m)	(m)				(m)	(m)	(m)		
35	5+000 - 5+062	-	62.00	-	L	35	4+624 - 4+872	-	248.00	-	R	
36	5+062 - 5+071	-	-	9.00	L	36	4+872 - 4+885	-	-	13.00	R	
37	5+071 - 5+734	-	663.00	-	L	37	4+885 - 5+000	-	115.00	-	R	
38	5+736 - 5+909	-	173.00	-	L	38	5+000 - 5+122	-	122.00	-	R	
39	5+909 - 5+918	-	-	9.00	L	39	5+122 - 5+162	-	-	40.00	R	
40	5+918 - 5+950	-	32.00	-	L	40	5+162 - 5+580	-	418.00	-	R	
41	5+950 - 6+103	-	153.00	-	L	41	5+580 - 5+590	-	-	10.00	R	
42	6+103 - 6+113	-	-	10.00	L	42	5+590 - 5+734	-	144.00	-	R	
43	6+113 - 6+139	-	26.00	-	L	43	5+736 - 5+885	-	149.00	-	R	
44	6+139 - 6+148	-	-	9.00	L	44	5+885 - 5+895	-	-	10.00	R	
45	6+148 - 6+263	-	115.00	-	L	45	5+895 - 5+950	-	55.00	-	R	
46	6+263 - 6+272	-	-	9.00	L	46	5+950 - 5+975	-	25.00	-	R	
47	6+272 - 6+323	-	51.00	-	L	47	5+975 - 5+984	-	-	9.00	R	
48	6+330 - 6+452	-	122.00	-	L	48	5+984 - 6+215	-	231.00	-	R	
49	6+460 - 6+559	-	99.00	-	L	49	6+215 - 6+237	-	-	22.00	R	
50	6+559 - 6+568	-	-	9.00	L	50	6+237 - 6+323	-	86.00	-	R	
51	6+568 - 6+665	-	97.00	-	L	51	6+325 - 6+452	-	127.00	-	R	
52	6+665 - 6+674	-	-	9.00	L	52	6+460 - 6+593	-	133.00	-	R	
53	6+674 - 6+707	-	33.00	-	L	53	6+593 - 6+639	-	-	46.00	R	
54	6+713 - 6+845	-	132.00	-	L	54	6+639 - 6+707	-	68.00	-	R	
55	6+852 - 6+995	-	143.00	-	L	55	6+713 - 6+737	-	24.00	-	R	
56	7+064 - 7+106	-	42.00	-	L	56	6+737 - 6+746	-	-	9.00	R	
57	7+106 - 7+115	-	-	9.00	L	57	6+746 - 6+845	-	99.00	-	R	
58	7+115 - 7+201	-	86.00	-	L	58	6+852 - 6+995	-	143.00	-	R	
59	7+201 - 7+210	-	-	9.00	L	59	7+064 - 7+338	-	274.00	-	R	
60	7+210 - 7+487	-	277.00	-	L	60	7+338 - 7+347	-	-	9.00	R	
61	7+487 - 7+496	-	-	9.00	L	61	7+347 - 7+478	-	131.00	-	R	
62	7+496 - 7+560	-	64.00	-	L	62	7+478 - 7+487	-	-	9.00	R	
63	7+566 - 7+726	-	160.00	-	L	63	7+487 - 7+556	-	69.00	-	R	
64	7+726 - 7+735	-	-	9.00	L	64	7+566 - 7+757	-	191.00	-	R	
65	7+735 - 7+757	-	22.00	-	L	65	7+768 - 7+936	-	168.00	-	R	
66	7+768 - 7+848	-	80.00	-	L	66	7+936 - 7+948	-	-	12.00	R	
67	7+848 - 7+857	-	-	9.00	L	67	7+948 - 7+988	-	40.00	-	R	
68	7+857 - 7+993	-	136.00	-	L	68	8+000 - 8+325	-	325.00	-	R	



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
LIST OF SIDE DRAINS STRUCTURES  
Km4+624 - Km 8+325

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL , 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. LDD-002
			APPROVED	Mr. Vandy VORASACK		SCALE: USE SCALE

LIST OF SIDE DRAINS STRUCTURES

No.	STATION (KM)	LENGTH			SIDE	No.	STATION (KM)	LENGTH			SIDE	REMARK
		DITCH LINNING	RC-DITCH WITH COVER	PIPE Ø 60				DITCH LINNING	RC-DITCH WITH COVER	PIPE Ø 60		
		(m)	(m)	(m)				(m)	(m)	(m)		
69	8+000 - 8+406	-	406.00	-		69	8+325 - 8+400	-	-	75.00	R	
70	8+413 - 8+466	-	53.00	-	L	70	8+400 - 8+406	-	6.00	-	R	
71	8+466 - 8+494	-	28.00	-	L	71	8+413 - 8+612	-	199.00	-	R	
72	8+494 - 8+607	-	113.00	-	L	72	8+617 - 8+686	-	69.00	-	R	
73	8+617 - 8+683	-	66.00	-	L	73	8+691 - 8+760	-	69.00	-	R	
74	8+691 - 8+770	-	79.00	-	L	74	8+777 - 9+029	-	252.00	-	R	
75	8+770 - 8+791	-	21.00	-	L	75	9+038 - 9+407	-	369.00	-	R	
76	9+029 - 9+038	-	-	9.00	L	76	9+407 - 9+418	-	-	11.00	R	
77	9+038 - 9+216	-	178.00	-	L	77	9+418 - 9+503	-	85.00	-	R	
78	9+216 - 9+228	-	-	12.00	L	78	9+503 - 9+516	-	-	13.00	R	
79	9+228 - 9+418	-	190.00	-	L	79	9+516 - 9+708	-	192.00	-	R	
80	9+418 - 9+420	-	-	2.00	L	80	9+708 - 9+716	-	-	8.00	R	
81	9+420 - 9+729	-	309.00	-	L	81	9+716 - 9+729	-	13.00	-	R	
82	9+738 - 9+813	-	75.00	-	L	82	9+740 - 9+813	-	73.00	-	R	
83	9+813 - 9+820	-	-	7.00	L	83	9+820 - 9+875	-	55.00	-	R	
84	9+820 - 10+034	-	214.00	-	L	84	9+875 - 9+888	-	-	13.00	R	
85	10+125 - 10+136	-	-	11.00	L	85	9+888 - 9+975	-	87.00	-	R	
86	10+136 - 10+200	-	64.00	-	L	86	9+975 - 9+987	-	-	12.00	R	
87	10+212 - 10+301	-	89.00	-	L	87	9+987 - 10+034	-	47.00	-	R	
88	10+301 - 10+329	-	-	28.00	L	88	10+136 - 10+198	-	62.00	-	R	
89	10+329 - 10+440	-	111.00	-	L	89	10+207 - 10+353	-	146.00	-	R	
90	10+449 - 10+800	-	351.00	-	L	90	10+353 - 10+365	-	-	12.00	R	
91	10+800 - 11+125	-	325.00	-	L	91	10+365 - 10+439	-	74.00	-	R	
92	11+133 - 11+425	-	292.00	-	L	92	10+450 - 10+800	-	350.00	-	R	
93	11+425 - 11+517	-	92.00	-	L	93	10+800 - 10+939	-	139.00	-	R	
94	11+517 - 11+528	-	-	11.00	L	94	10+939 - 10+966	-	-	27.00	R	
95	11+528 - 11+728	-	200.00	-	L	95	10+966 - 11+125	-	159.00	-	R	
96	11+728 - 11+738	-	-	10.00	L	96	11+134 - 11+425	-	291.00	-	R	
97	11+738 - 12+002	-	264.00	-	L	97	11+425 - 11+494	-	69.00	-	R	
98	12+010 - 12+412	-	402.00	-	L	98	11+494 - 11+507	-	-	13.00	R	
99	12+412 - 12+425	-	-	13.00	L	99	11+507 - 11+614	-	107.00	-	R	
100	12+758 - 12+758	-	-	-	L	100	11+614 - 11+629	-	-	15.00	R	
101	12+758 - 12+778	-	-	20.00	L	101	11+629 - 11+998	-	369.00	-	R	
102	12+778 - 12+790	-	12.00	-	L	102	12+010 - 12+314	-	304.00	-	R	



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
LIST OF SIDE DRAINS STRUCTURES  
Km8+000 - Km 12+790

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL , 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. LDD-003
			APPROVED	Mr. Vandy VORASACK		SCALE: USE SCALE

LIST OF SIDE DRAINS STRUCTURES

No.	STATION	LENGTH			SIDE	No.	STATION	LENGTH			SIDE	REMARK
	(KM)	DITCH LINNING	RC-DITCH WITH COVER	PIPE Ø 60			(KM)	DITCH LINNING	RC-DITCH WITH COVER	PIPE Ø 60		
		(m)	(m)	(m)				(m)	(m)	(m)		
103	12+805 – 12+844	-	39.00	-	L	103	12+314 – 12+378	-	-	64.00	R	
104	12+851 – 12+950	-	99.00	-	L	104	12+378 – 12+798	-	420.00	-	R	
105	12+958 – 13+325	-	367.00	-	L	105	12+805 – 12+814	-	9.00	-	R	
106	13+325 – 13+700	-	375.00	-	L	106	12+814 – 12+825	-	-	11.00	R	
107	13+600 – 13+700	-	100.00	-	L	107	12+825 – 12+844	-	19.00	-	R	
108	13+716 – 13+850	-	134.00	-	L	108	12+851 – 12+950	-	99.00	-	R	
109	13+850 – 14+025	-	175.00	-	L	109	12+959 – 13+080	-	121.00	-	R	
110	14+034 – 14+125	-	91.00	-	L	110	13+080 – 13+091	-	-	11.00	R	
111	14+125 – 14+320	-	195.00	-	L	111	13+091 – 13+131	-	40.00	-	R	
112	14+340 – 14+704	-	364.00	-	L	112	13+131 – 13+143	-	-	12.00	R	
113	14+704 – 14+711	-	-	7.00	L	113	13+143 – 13+282	-	139.00	-	R	
114	14+711 – 14+825	-	114.00	-	L	114	13+282 – 13+328	-	-	46.00	R	
115	14+825 – 14+950	-	125.00	-	L	115	13+328 – 13+350	-	22.00	-	R	
116	14+965 – 15+028	-	-	63.00	L	116	13+350 – 13+387	-	37.00	-	R	
117	15+028 – 15+125	-	97.00	-	L	117	13+387 – 13+396	-	-	9.00	R	
118	15+139 – 15+285	-	146.00	-	L	118	13+396 – 13+703	-	307.00	-	R	
119	15+295 – 15+675	-	380.00	-	L	119	13+600 – 13+701	-	101.00	-	R	
120	15+675 – 16+156	-	481.00	-	L	120	13+750 – 13+813	-	63.00	-	R	
121	16+172 – 16+419	-	247.00	-	L	121	13+813 – 13+825	-	-	12.00	R	
122	16+427 – 16+580	-	153.00	-	L	122	13+825 – 13+850	-	25.00	-	R	
123	16+583 – 16+786	-	203.00	-	L	123	13+850 – 14+025	-	175.00	-	R	
124	16+786 – 16+801	-	-	15.00	L	124	14+034 – 14+125	-	91.00	-	R	
125	16+801 – 17+163	-	362.00	-	L	125	14+125 – 14+320	-	195.00	-	R	
126	17+163 – 17+176	-	-	13.00	L	126	14+340 – 14+825	-	485.00	-	R	
127	17+176 – 17+246	-	70.00	-	L	127	14+825 – 14+950	-	125.00	-	R	
128	17+261 – 17+525	-	264.00	-	L	128	14+972 – 15+125	-	153.00	-	R	
129	17+525 – 17+735	-	210.00	-	L	129	15+139 – 15+285	-	146.00	-	R	
130	17+750 – 17+786	-	36.00	-	L	130	15+296 – 15+658	-	362.00	-	R	
131	17+786 – 17+811	-	-	25.00	L	131	15+700 – 16+076	-	376.00	-	R	
132	17+811 – 17+984	-	173.00	-	L	132	16+076 – 16+125	-	-	49.00	R	
133	17+996 – 18+347	-	351.00	-	L	133	16+125 – 16+157	-	32.00	-	R	
134	18+360 – 18+578	-	218.00	-	L	134	16+175 – 16+425	-	250.00	-	R	
135	18+586 – 18+625	-	39.00	-	L	135	16+425 – 16+571	-	146.00	-	R	
136	18+628 – 18+825	-	197.00	-	L	136	16+583 – 17+242	-	659.00	-	R	



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY  
LIST OF SIDE DRAINS STRUCTURES  
Km12+314 – Km 18+825

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL , 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. LDD-004
			APPROVED	Mr. Vandy VORASACK		SCALE: USE SCALE

LIST OF SIDE DRAINS STRUCTURES

No.	STATION	LENGTH			SIDE	No.	STATION	LENGTH			SIDE	REMARK
	(KM)	DITCH LINNING	RC-DITCH WITH COVER	PIPE $\phi$ 60			(KM)	DITCH LINNING	RC-DITCH WITH COVER	PIPE $\phi$ 60		
		(m)	(m)	(m)				(m)	(m)	(m)		
137	18+825 – 19+025	-	200.00	-	L	137	17+259 – 17+525	-	266.00	-	R	
138	19+029 – 19+219	-	190.00	-	L	138	17+525 – 17+735	-	210.00	-	R	
139	19+289 – 19+472	-	133.00	-	L	139	17+750 – 17+986	-	236.00	-	R	
					L	140	18+000 – 18+346	-	346.00	-	R	
					L	141	18+360 – 18+486	-	126.00	-	R	
					L	142	18+486 – 18+539	-	-	53.0	R	
					L	143	18+539 – 18+571	-	32.0	-	R	
					L	144	18+576 – 18+625	-	49.0	-	R	
					L	145	18+628 – 18+794	-	166.0	-	R	
					L	146	18+794 – 18+813	-	-	19.0	R	
					L	147	18+813 – 18+850	-	37.0	-	R	
					L	148	18+850 – 19+025	-	175.0	-	R	
					L	149	19+029 – 19+219	-	190.0	-	R	
					L	150	19+289 – 19+400	-	133.00	-	R	



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY  
LIST OF SIDE DRAINS STRUCTURES  
Km17+259 – Km 19+400

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: APRIL , 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. LDD-005
			APPROVED	Mr. Vandy VORASACK		SCALE: USE SCALE

# LIST OF CULVERTS

LIST OF CULVERTS

No.	CHAINAGE	EXISTING CULVERT			PROPOSED NEW CULVERT			EXTENSION TO EXISTING		REMARKS
		TYPE AND SIZE	CONDITION OF CULVERT	LENGTH (m)	TYPE AND SIZE	LENGTH (m)	INLET/OUTLET STRUCTURE TYPE	EXTENSION LENGTH (m)	TOTAL LENGTH (m)	
1	0+682	PC,1.0 m	FAIR	14.00	PC,1.0 m		HW+HW	20.00	34.00	Paste Mortar
2	0+714	PC,1.0 m	GOOD	18.00	PC,1.0 m		HW+HW	17.00	35.00	Remove Sediment Depth: 0.5 m
3	2+000	PC,1.0 m	-	0.00	PC,1.0 m	28.00	HW+HW			
4	2+417	BC(2x1.5)	GOOD	16.00	BC(2X1.5)m		HW+HW	16.00	32.00	
5	2+835	2 PC,1.5 m	FAIR	16.00	2 PC,1.5 m		HW+HW	15.00	31.00	Paste Mortar
6	3+610	BC(2x1.5)	FAIR	17.00	BC(2X1.5)m		HW+HW	17.00	34.00	Paste Mortar
7	4+622	PC,0.8 m	-	18.00	PC,1.0 m	28.00	HW+HW			Remove Exist PC Dia 0.80
8	5+734	BC(4x1.5)	FAIR	15.00	BC(4X1.5)m		HW+HW	17.00	32.00	Paste Mortar
9	6+324	2 PC,0.8+2 PC,1.0m	GOOD	17.00	4 PC,1.0 m	32.00	HW+HW	15.00	32.00	Remove Exist PC Dia 0.80
10	6+457	2 PC,0.8 m	-	17.00	2 PC,1.0 m	28.00	HW+HW			Remove Exist PC Dia 0.80
11	6+708	2 PC,1.0 m	FAIR	19.00	2 PC,1.0 m		HW+HW	13.00	32.00	Paste Mortar
12	6+847	2 PC,0.8 m	-	19.00	2 PC,1.0 m	31.00	HW+HW			Remove Exist PC Dia 0.80
13	7+564	2 PC,1.5 m	FAIR	19.00	2 PC,1.5 m		HW+HW	14.00	33.00	Paste Mortar
14	7+763	2 PC,0.8 m	-	18.00	2 PC,1.0 m	31.00	HW+HW			Remove Exist PC Dia 0.80
15	7+995	2 BC(4x2)	GOOD	13.00	2 BC(4X2)m		HW+HW	22.00	35.00	
16	8+408	BC(4x1)	FAIR	15.50	BC(4X1)m		HW+HW	18.00	33.50	Remove Sediment Depth: 0.70 m
17	8+614	2 PC,0.6 m	-	16.00	2 PC,1.0 m	32.00	HW+HW			Remove Exist PC Dia 0.60
18	8+686	2 PC,0.6 m	-	15.00	2 PC,1.0 m	31.00	HW+HW			Remove Exist PC Dia 0.60
19	8+780	2 PC,0.6 m	-	17.00	2 PC,1.0 m	44.00	HW+HW			Remove Exist PC Dia 0.60
20	9+034	2 PC,0.6 m	-	16.00	2 PC,1.0 m	30.00	HW+HW			Remove Exist PC Dia 0.60
21	9+734	PC,1.0 m	GOOD	17.00	PC,1.0 m		HW+HW	16.00	33.00	Remove Sediment Depth: 0.40 m
22	9+816	BC(4x1.5)	GOOD	15.50	BC(4X1.5)m		HW+HW	17.00	32.50	Remove Sediment Depth: 0.40 m
23	10+208	PC,0.6 m	-	13.00	PC,1.0 m	31.00	HW+HW			Remove Exist PC Dia 0.60
24	10+445	2 PC,0.8 m	-	15.00	2 PC,1.0 m	32.00	HW+HW			Remove Exist PC Dia 0.80
25	11+130	2 PC,0.6 m	-	16.00	2 PC,1.0 m	33.00	HW+HW			Remove Exist PC Dia 0.60
26	12+005	2 BC(2x1.5)	GOOD	14.00	2 BC(2X1.5)m		HW+HW	26.00	40.00	Paste Mortar
27	12+799	PC,0.6 m	-	16.00	PC,1.0 m	30.00	HW+HW			Remove Exist PC Dia 0.60
28	12+846	PC,0.6 m	-	16.00	PC,1.0 m	31.00	HW+HW			Remove Exist PC Dia 0.60
29	12+953	2 PC,0.6 m	-	16.00	2 PC,1.0 m	31.00	HW+HW			Remove Exist PC Dia 0.60
30	13+710	2 BC(2.5x2)	FAIR	17.00	2 BC(2.5X2)m		HW+HW	18.00	35.00	Paste Mortar
31	14+027	PC,1.0 m	GOOD	15.00	PC,1.0 m		HW+HW	16.00	31.00	
32	14+328	2 BC(4x2.7)	GOOD	13.50	2 BC(4X2.7)m		HW+HW	24.00	37.50	Paste Mortar
33	14+962	PC,1.0 m	GOOD	18.00	PC,1.0 m		HW+HW	16.00	34.00	
34	15+131	PC,0.8 m	-	20.00	PC,1.0 m	31.00	DR+DR			Remove Exist PC Dia 0.80
35	15+288	PC,1.0 m	FAIR	19.00	PC,1.0 m		HW+HW	15.00	34.00	
36	16+167	3 PC,1.5 m	GOOD	20.00	3 PC,1.5 m		HW+HW	17.00	37.00	Remove Sediment Depth: 0.70 m
37	16+581	PC,1.0 m	GOOD	18.00	PC,1.0 m		HW+HW	15.00	33.00	Remove Sediment Depth: 0.60 m
38	17+251	3 PC,1.5 m	GOOD	19.00	3 PC,1.5 m		HW+HW	14.00	33.00	
39	17+742	PC,0.8 m	-	17.00	PC,1.0 m	28.00	HW+HW			Remove Exist PC Dia 0.80
40	17+992	PC,1.0 m	GOOD	19.00	PC,1.0 m		HW+HW	11.00	30.00	



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT


NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

LIST OF CULVERTS  
Km 0+682 - Km 17+992

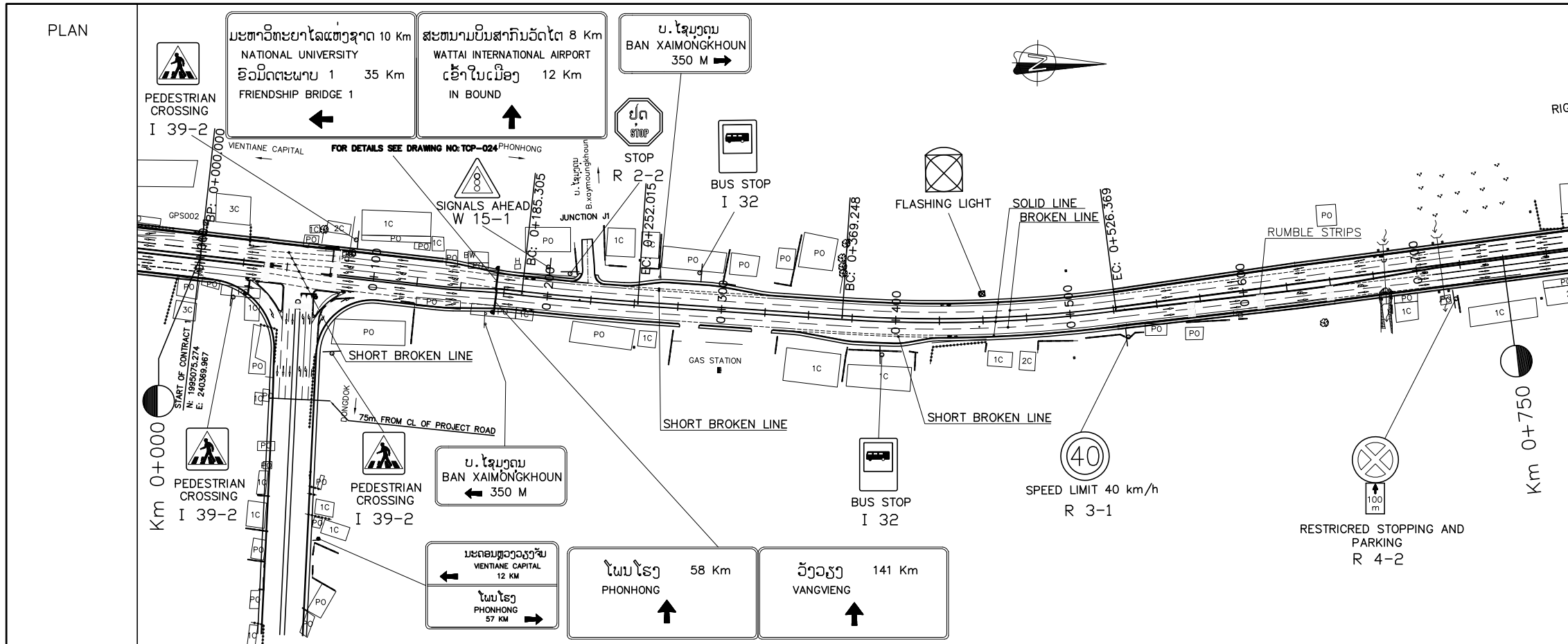
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
				DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: APRIL, 2018
				CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. LDD-006
				APPROVED	Mr. Vandy VORASACK	SCALE: NOT TO USE

**LIST OF CULVERTS**

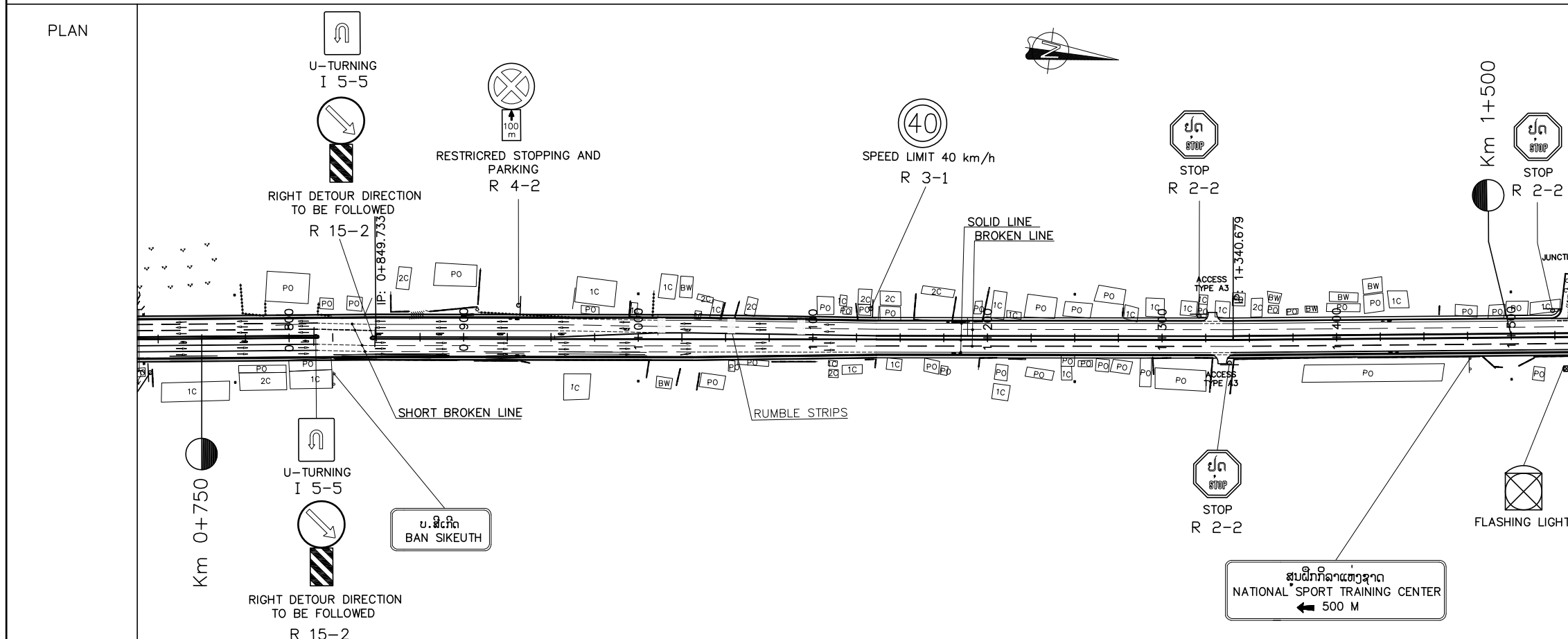
No.	CHAINAGE	EXISTING CULVERT			PROPOSED NEW CULVERT			EXTENSION TO EXISTING		REMARKS
		TYPE AND SIZE	CONDITION OF CULVERT	LENGTH (m)	TYPE AND SIZE	LENGTH (m)	INLET/OUTLET STRUCTURE TYPE	EXTENSION LENGTH (m)	TOTAL LENGTH (m)	
41	18+353	2 PC,1.0 m	GOOD	17.00	2 PC,1.0 m		HW+HW	13.00	30.00	Remove Sediment Depth: 0.20 m
42	18+579	BC(1.5x1)	GOOD	21.00	BC(1.5X1)m		HW+HW	13.00	34.00	
43	18+626	BC(1.5x1.5)	GOOD	15.00	BC(1.5X1.5)m		HW+HW	16.00	31.00	
44	19+026	PC,0.6 m	-	16.00	PC,1.0 m	32.00	HW+HW			Remove Exist PC Dia 0.60

 <p>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ LAO TRANSPORT ENGINEERING CONSULTANT</p>	NR 13N IMPROVEMENT AND MAINTENANCE PROJECT	REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
	CONTRACT 1 : SIKEUTH JUNCTION – BAN SONGPEUAY					DESIGNED	Mr. Souksavanh SYPHAKHAM	DATE: APRIL, 2018
	LIST OF CULVERTS					CHECKED	Mr. Khamphone SORPHABMIXAY	DRW No. LDD-007
	Km 18+353 – Km 19+026					APPROVED	Mr. Vandy VORASACK	SCALE: NOT TO USE

PLAN FOR TRAFFIC CONTROL  
DEVICES AND MISCELLANEOUS



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

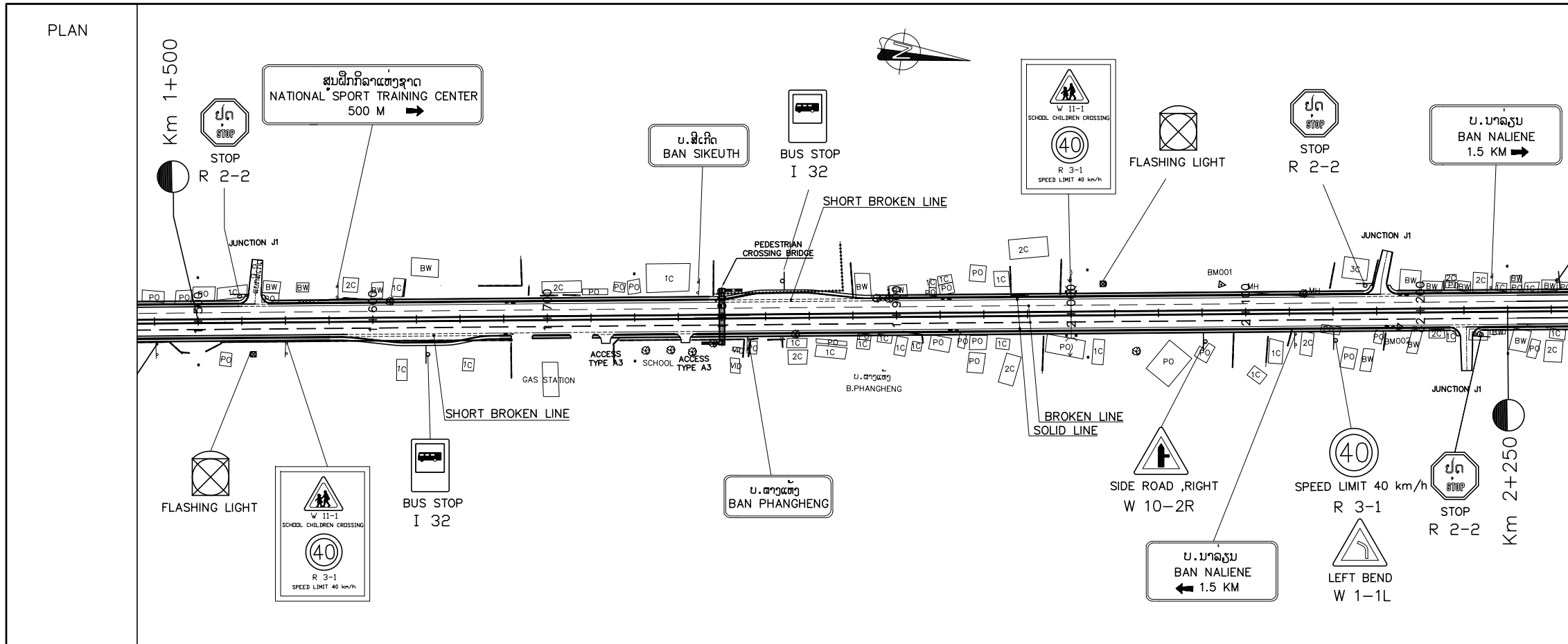


- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY

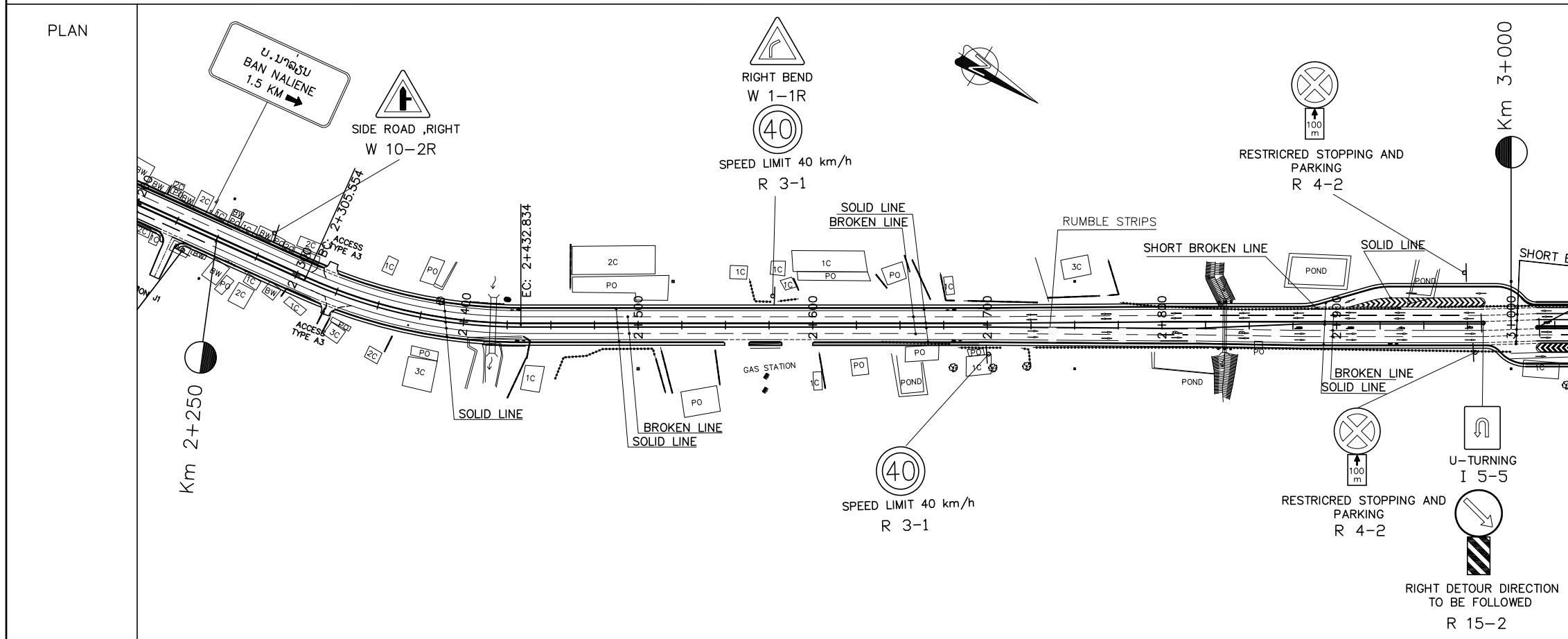


NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 0+000 - Km 1+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. TCP-001
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.



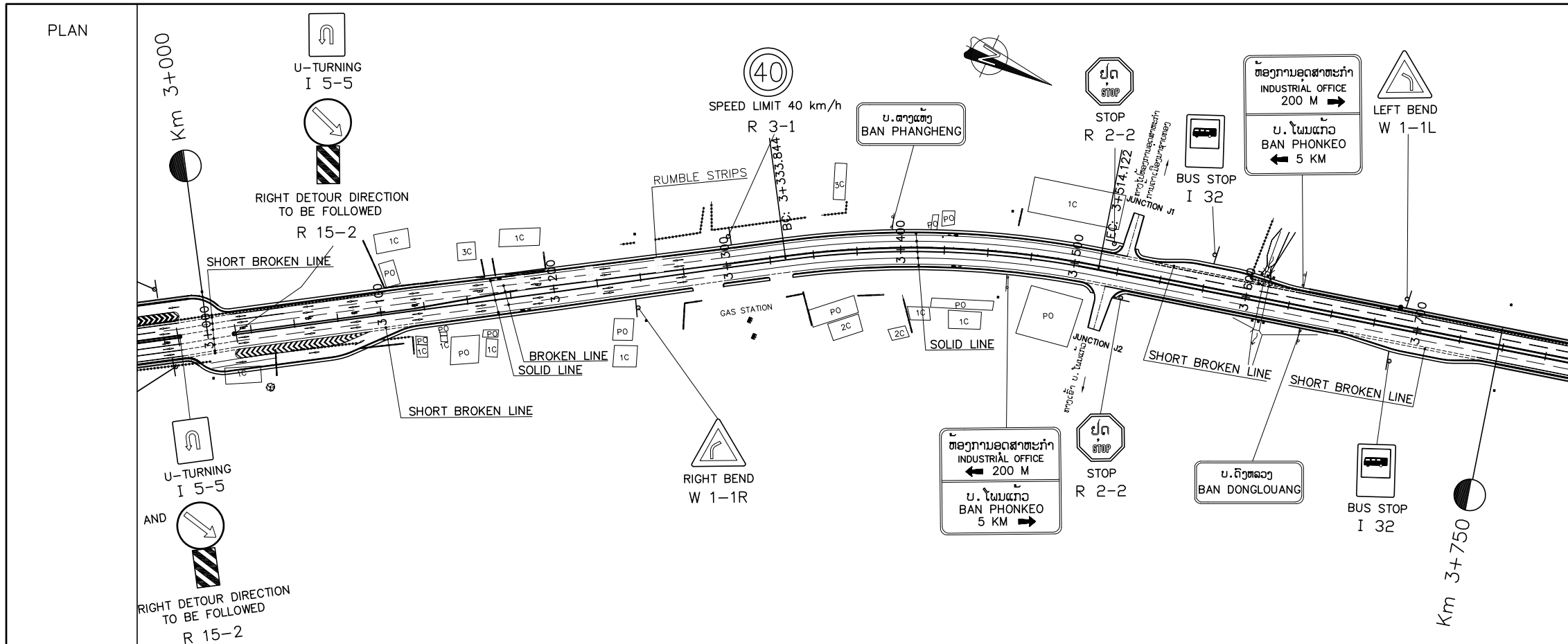
- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY

ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

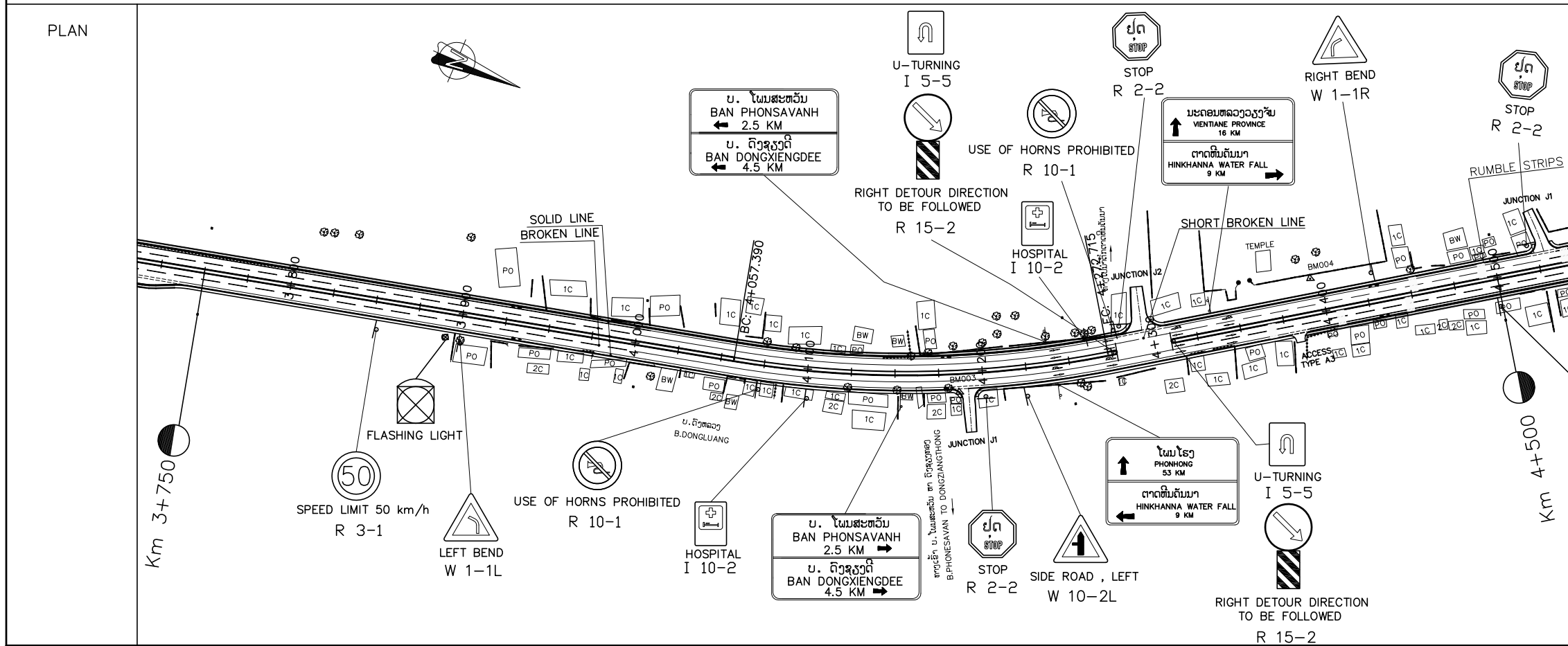
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

PLAN FOR  
TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
Km 1+500 - Km 3+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-002
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

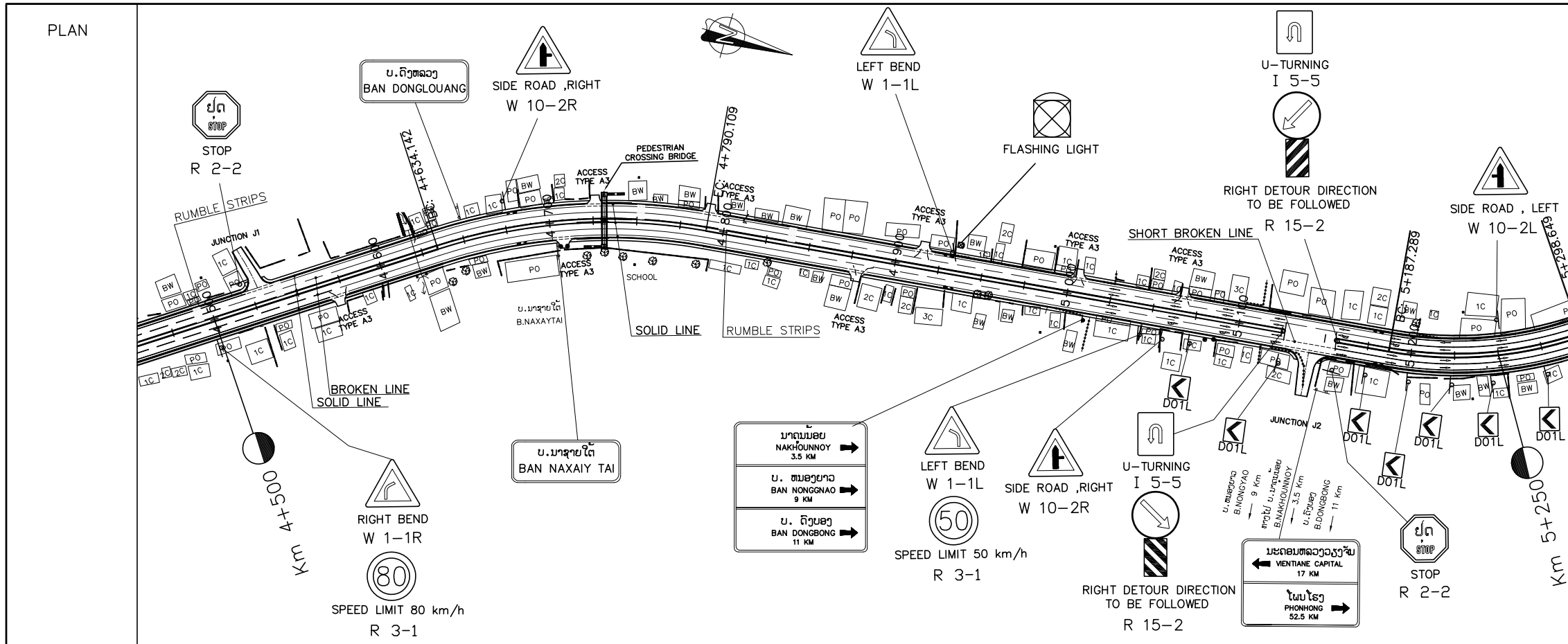


- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY

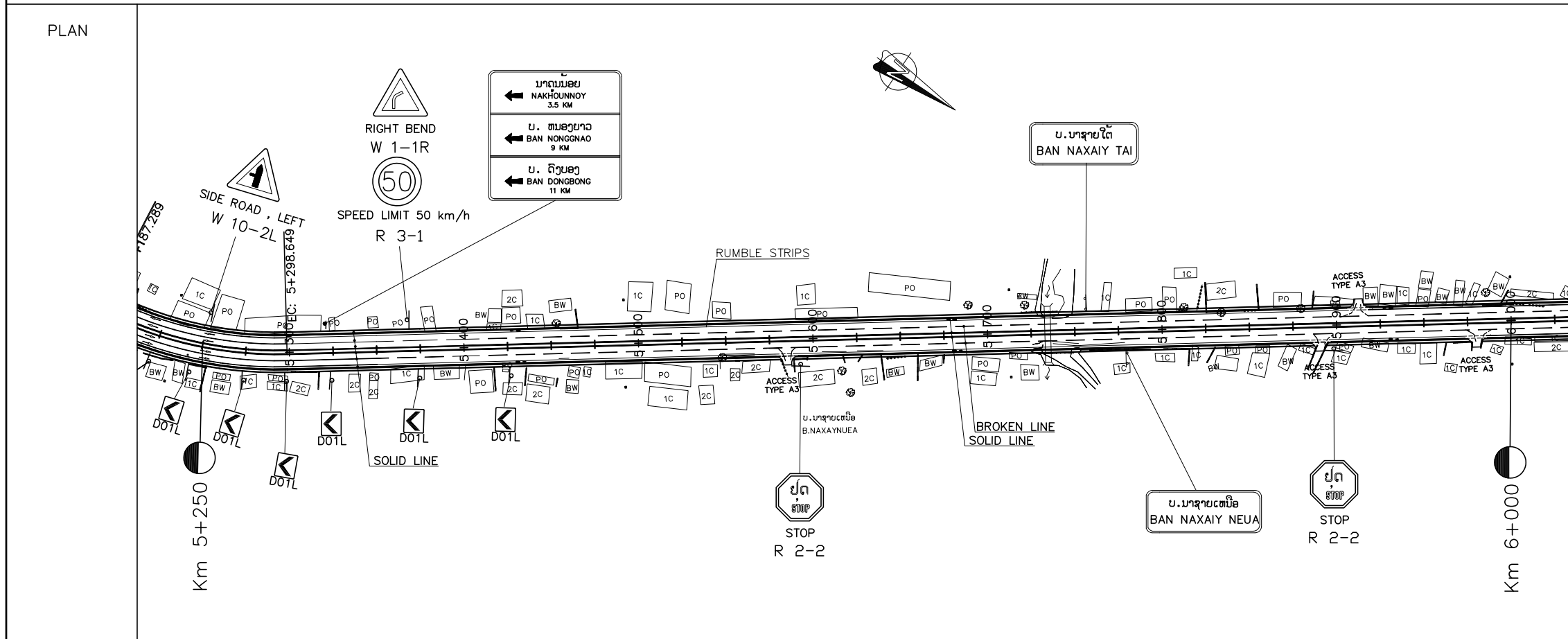





NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 3+000 - Km 4+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. TCP-003
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

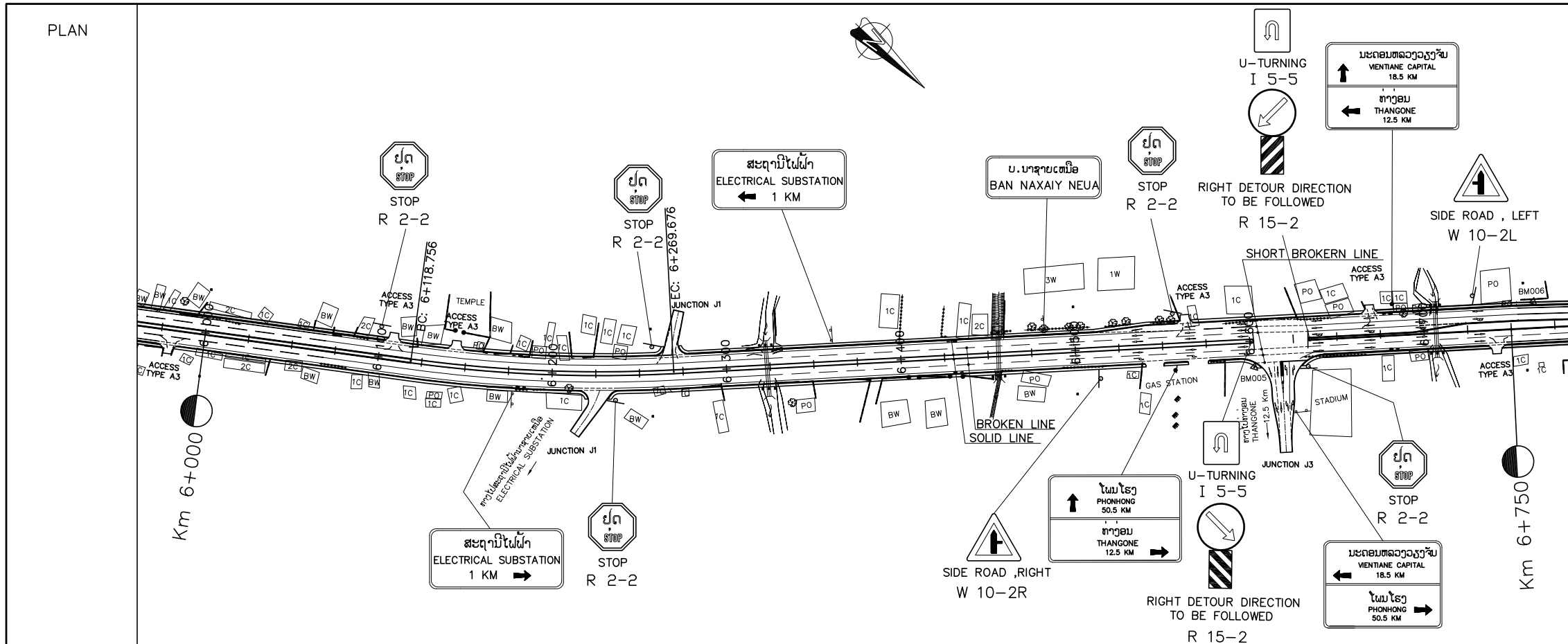


- LEGEND:
-  :AMBER FLASHING LIGHT
  -  :TRAFFIC SIGNAL
  -  :RIGHT OF WAY

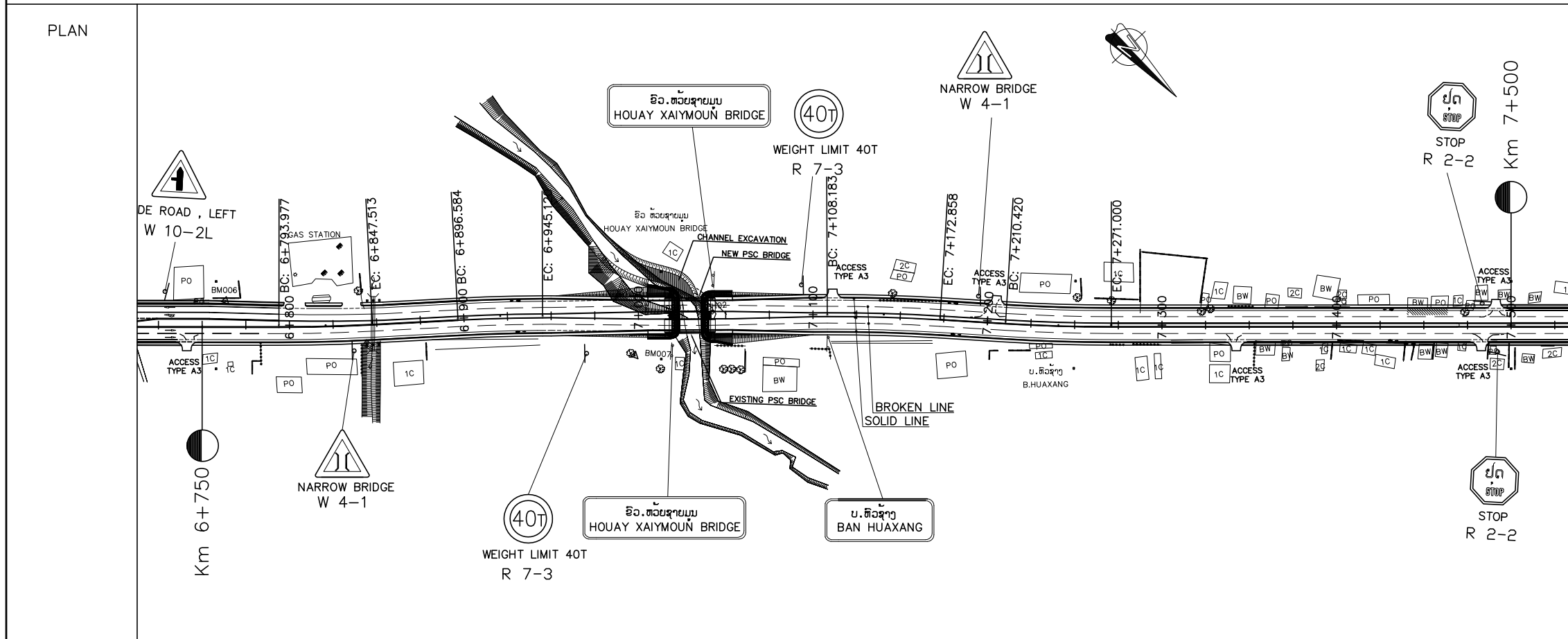


NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 4+500 - Km 6+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-004
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

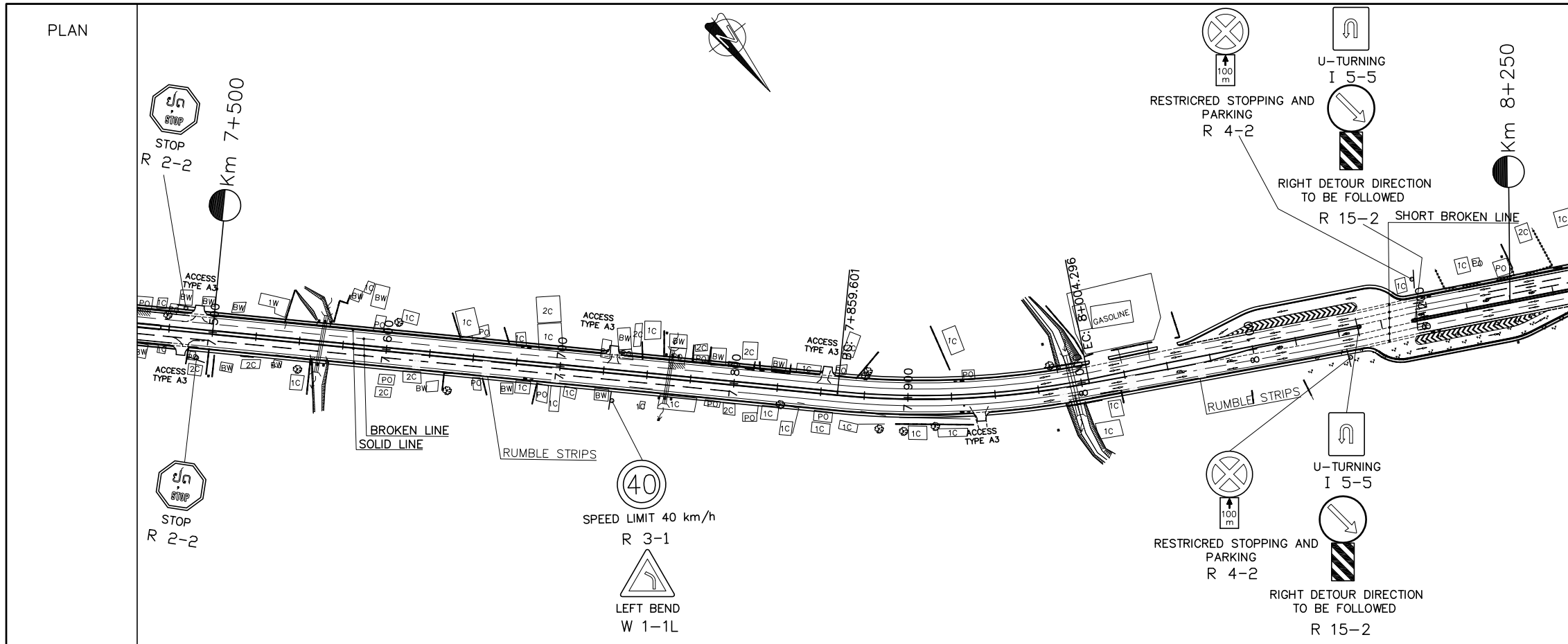


- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY

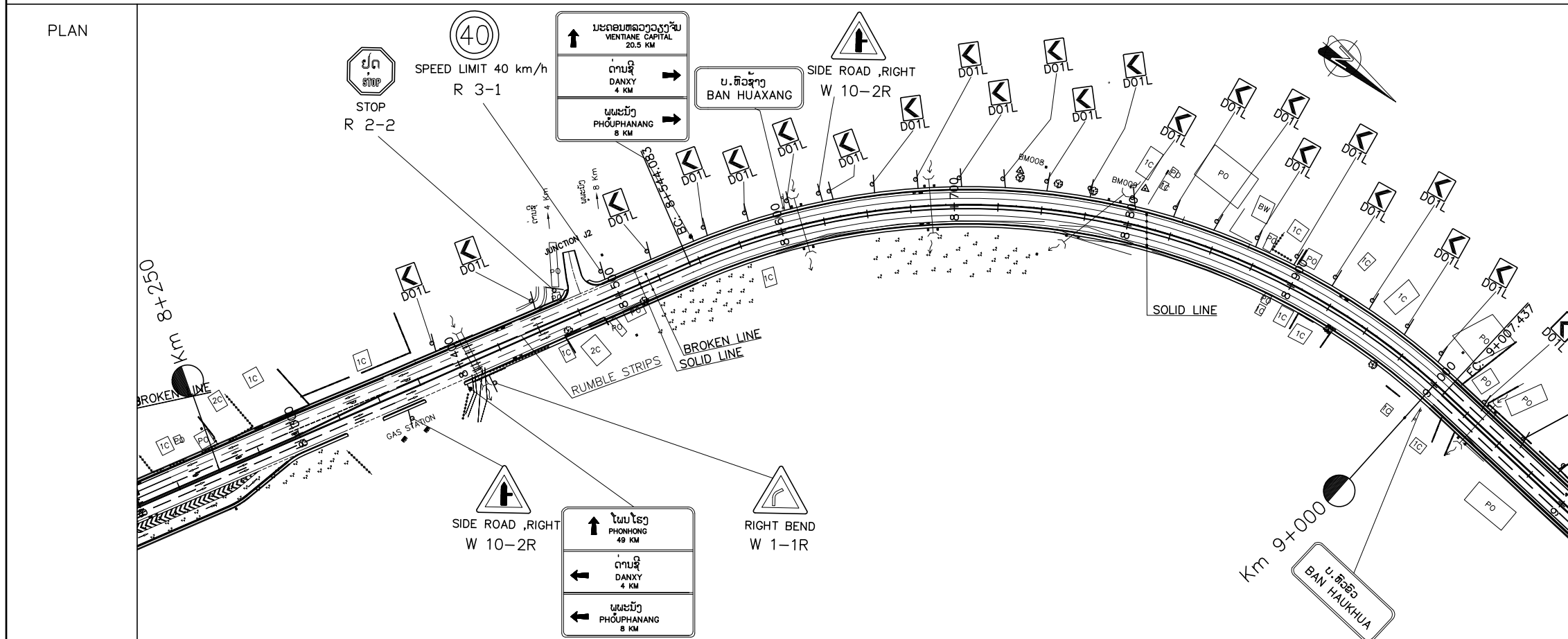


NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 6+000 - Km 7+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-005
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.



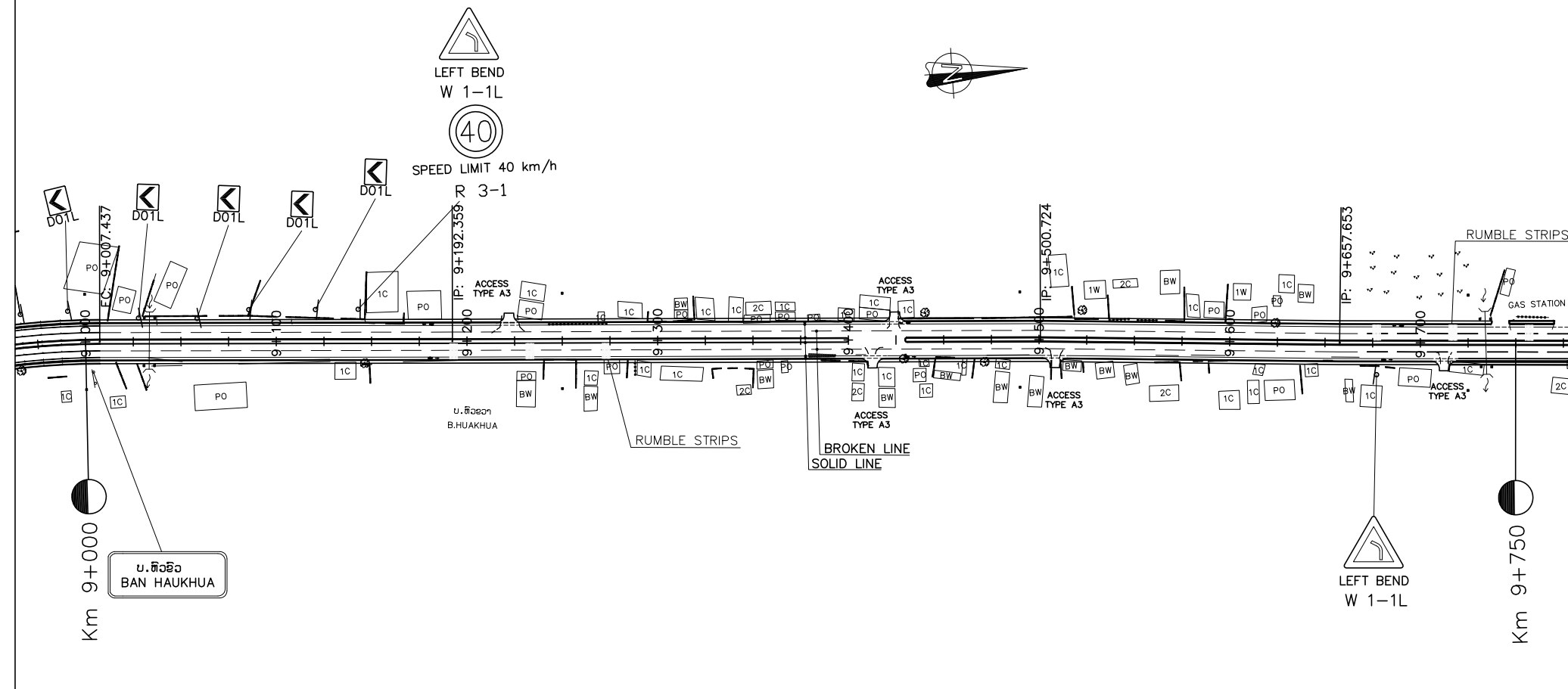
- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY



NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 7+500 - Km 9+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. TCP-006
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000

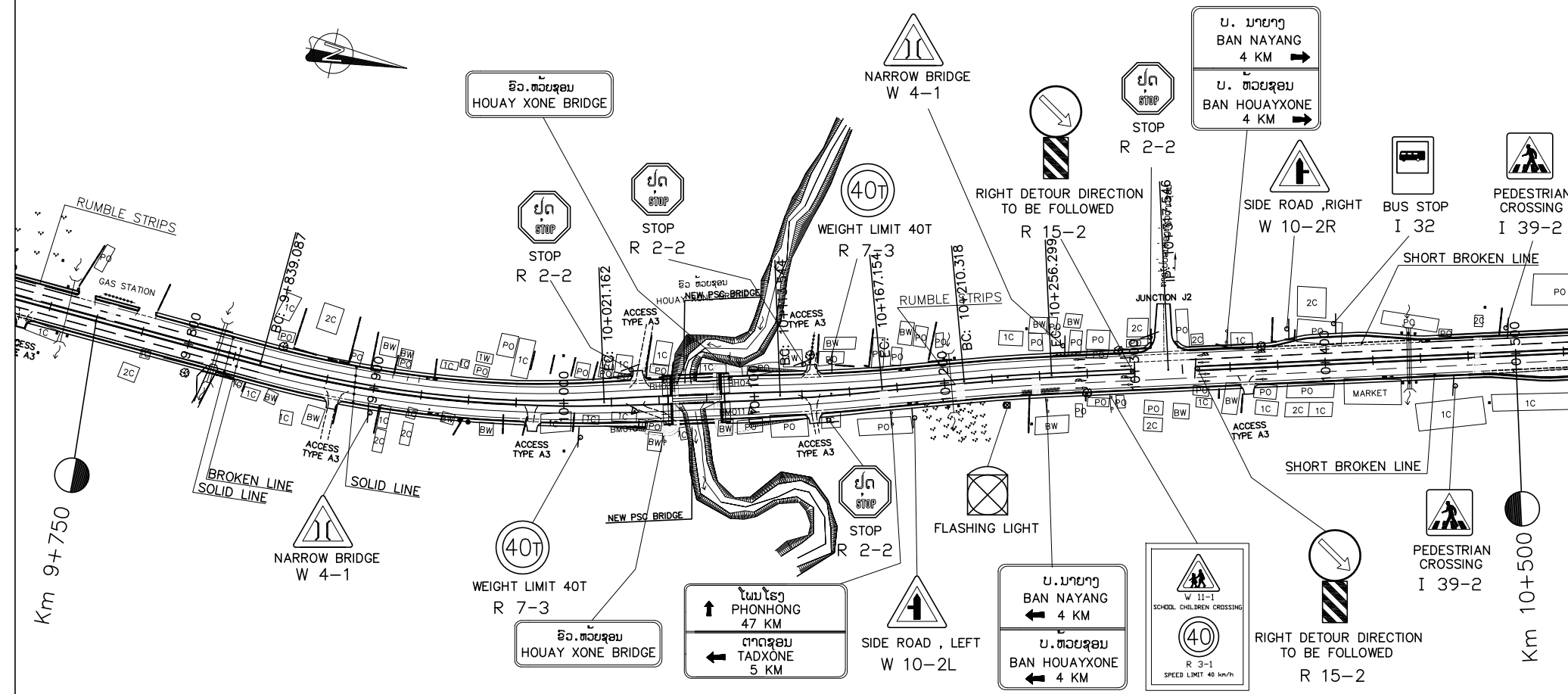
PLAN






NOTES :

- 1). PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
  - a). GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
  - b). STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

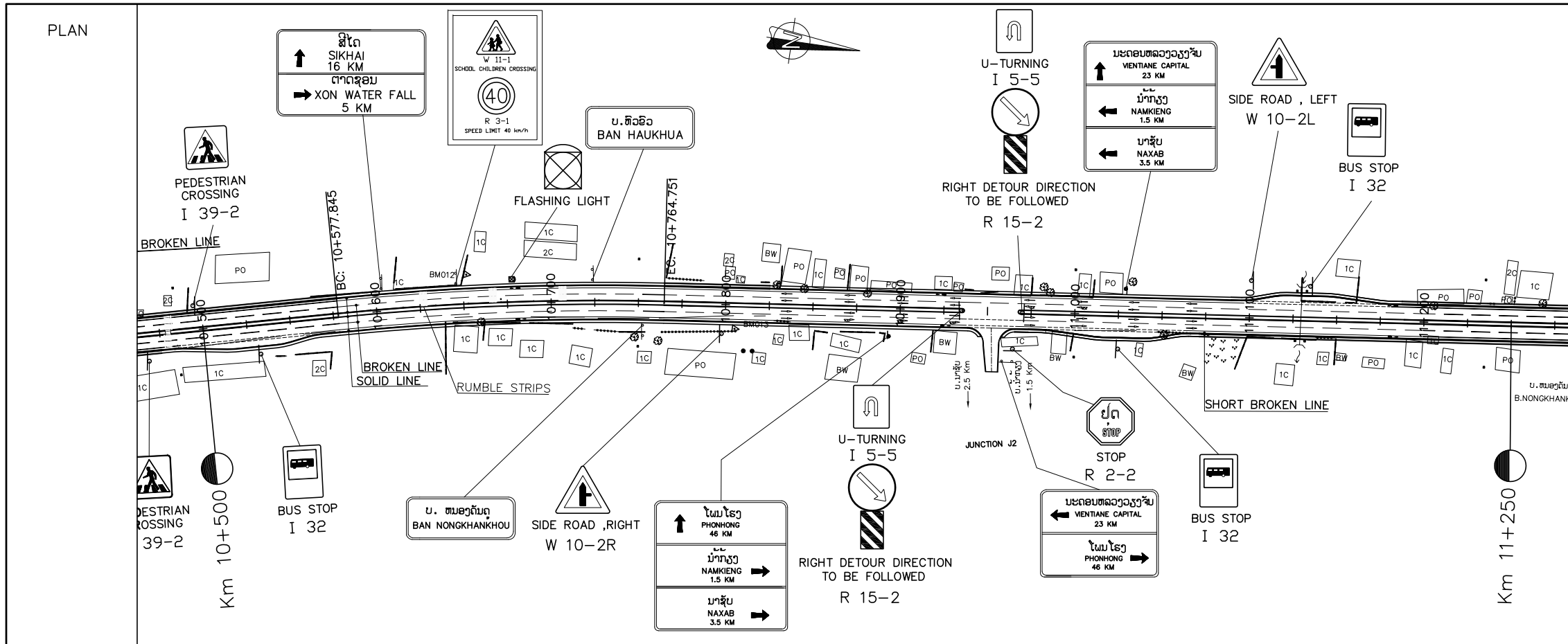
-  : AMBER FLASHING LIGHT
-  : TRAFFIC SIGNAL
-  : RIGHT OF WAY



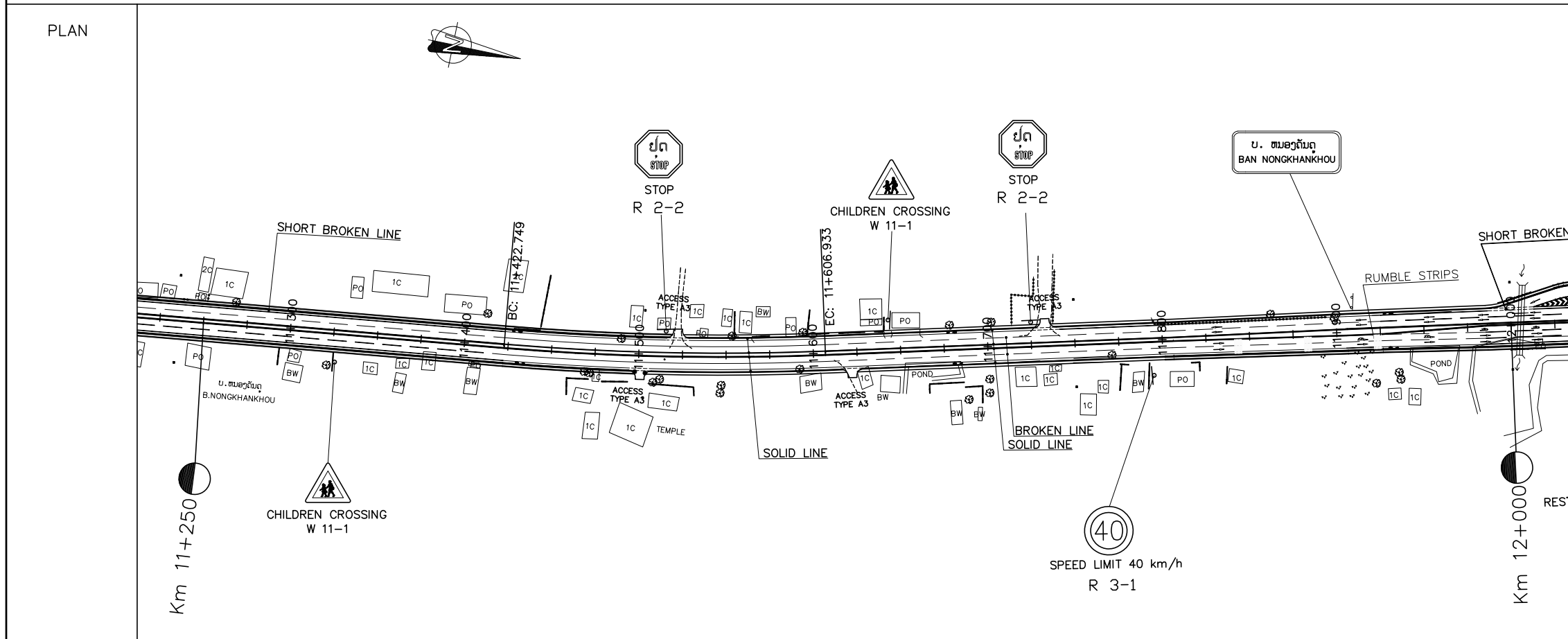
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN FOR  
TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
Km 9+000 - Km 10+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-007
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.



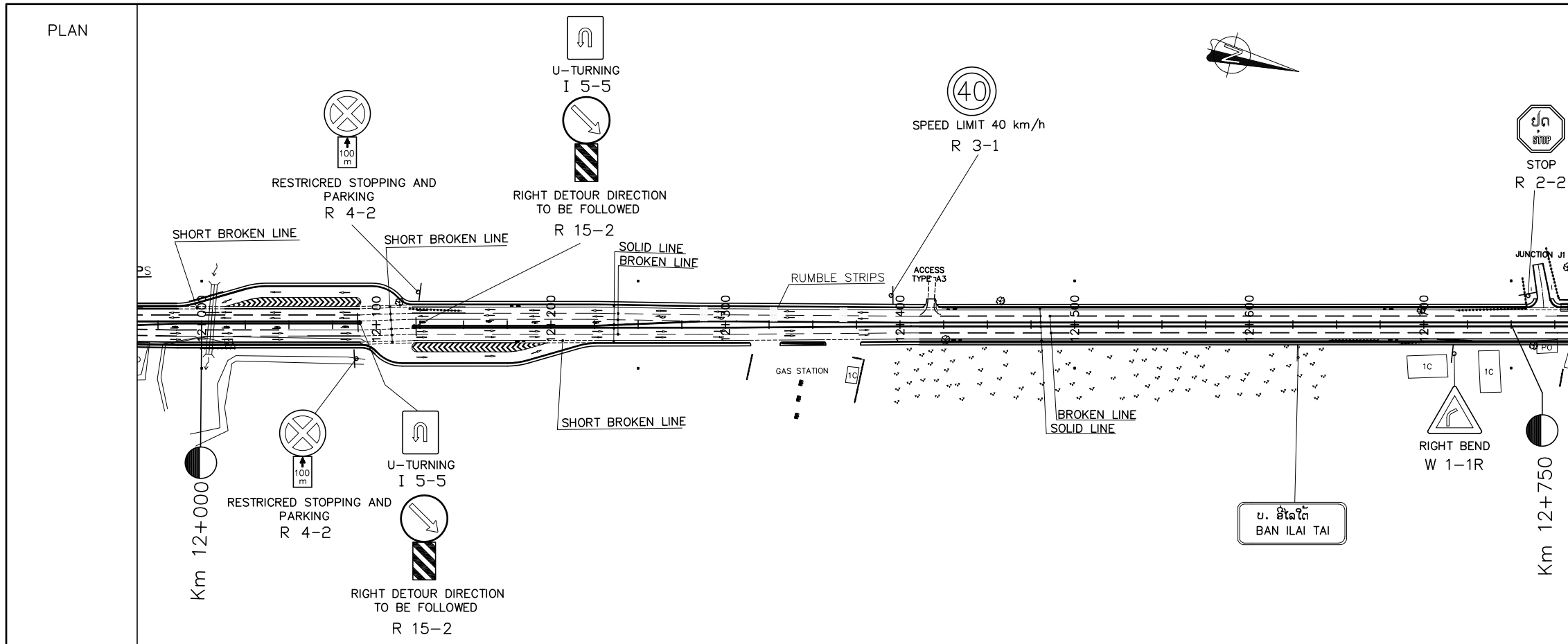
- LEGEND:
- :AMBER FLASHING LIGHT
  - :TRAFFIC SIGNAL
  - :RIGHT OF WAY



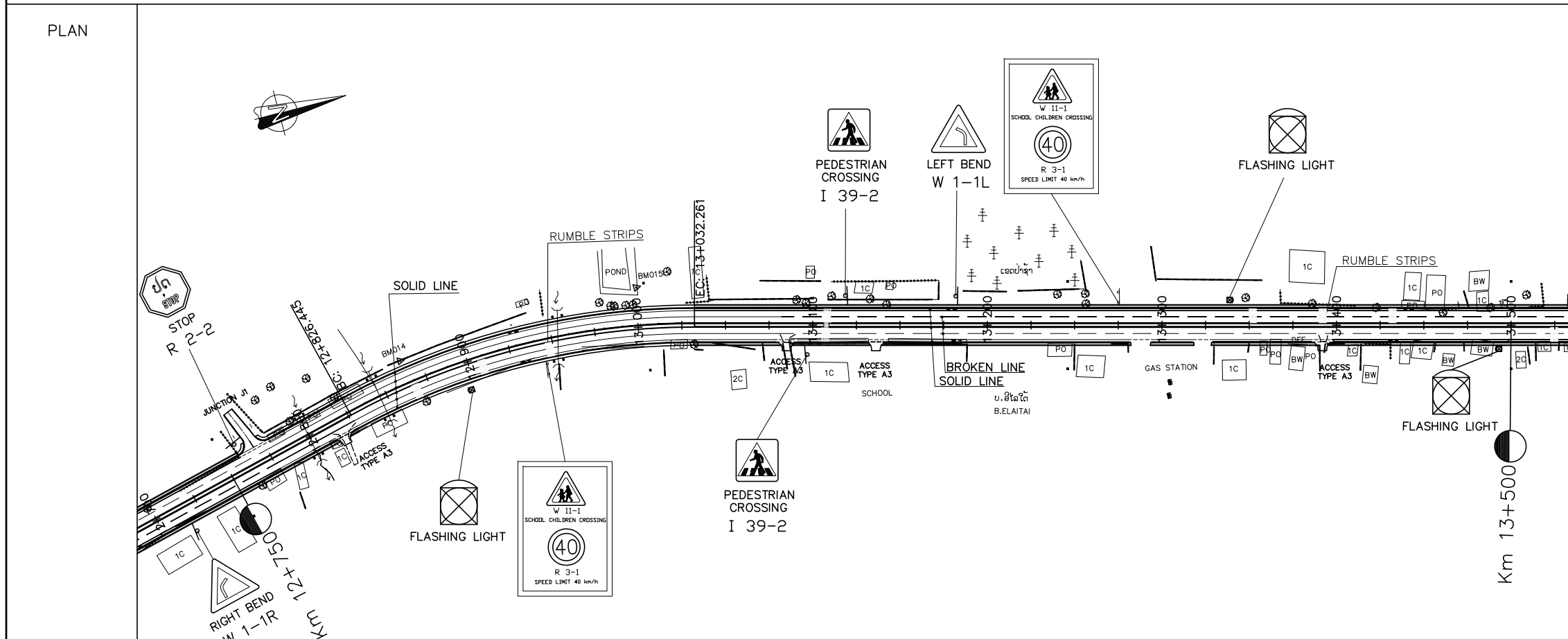
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN FOR  
TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
Km 10+500 - Km 12+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. TCP-008
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

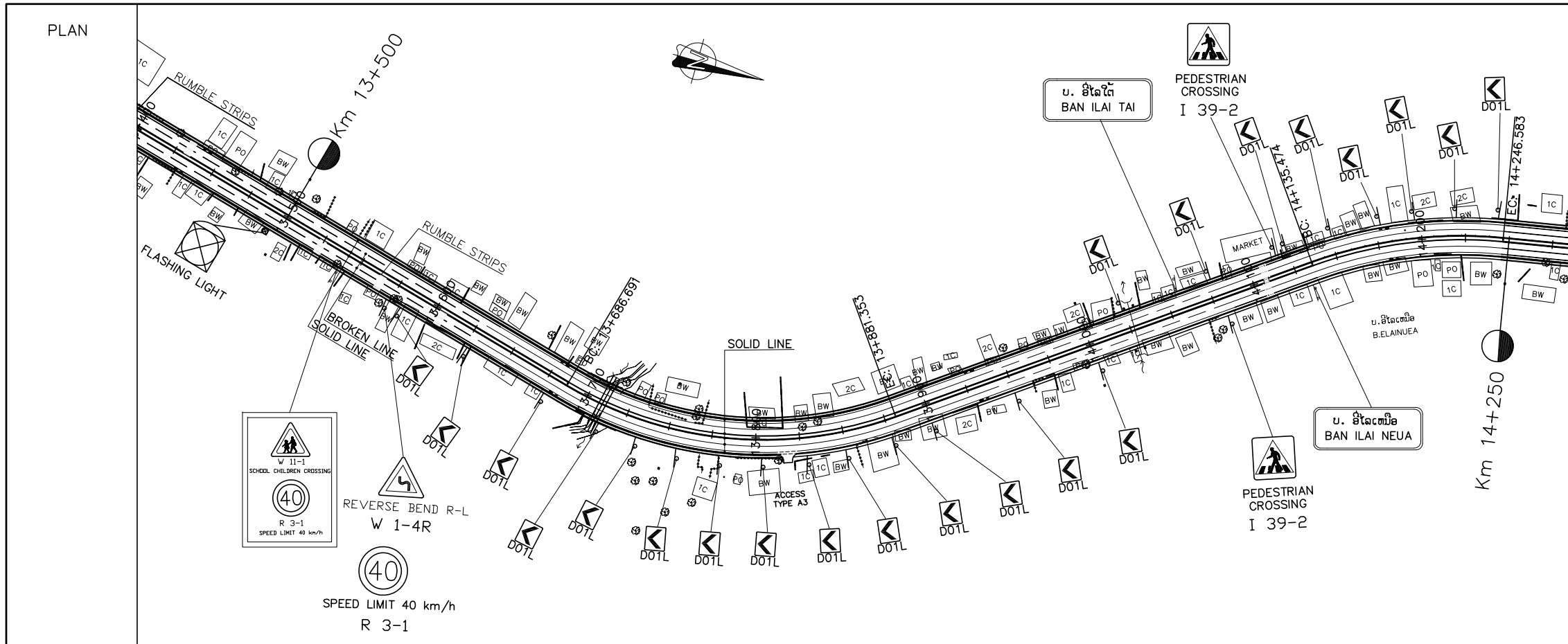


- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY

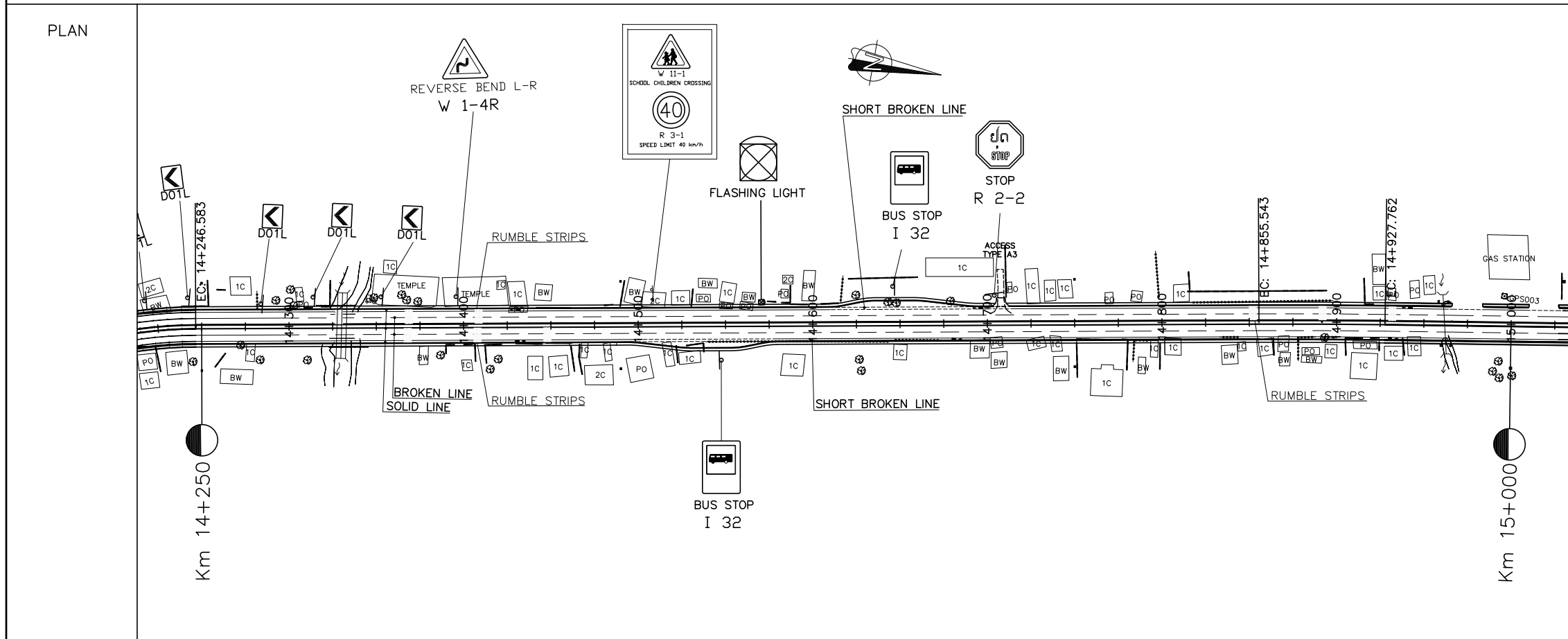


NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 12+000 - Km 13+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-009
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.



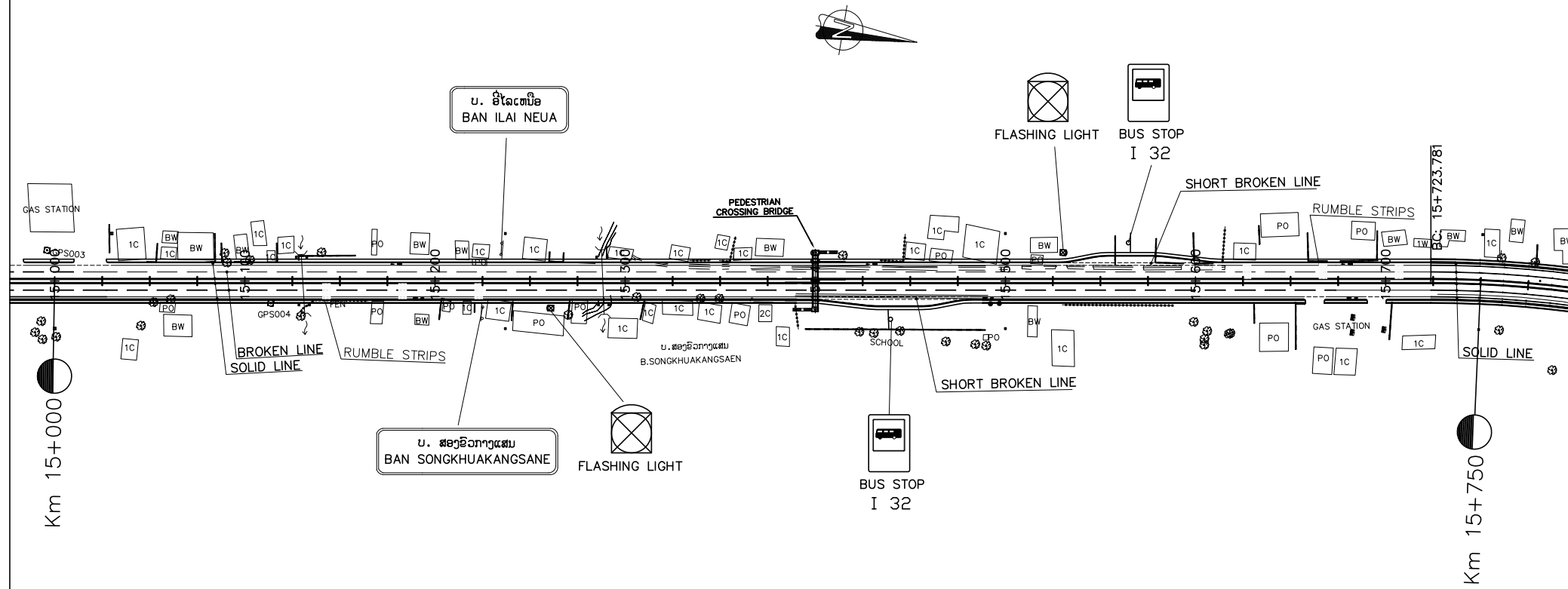
- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY



NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
 CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
 PLAN FOR  
 TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
 Km 13+500 - Km 15+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-010
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000

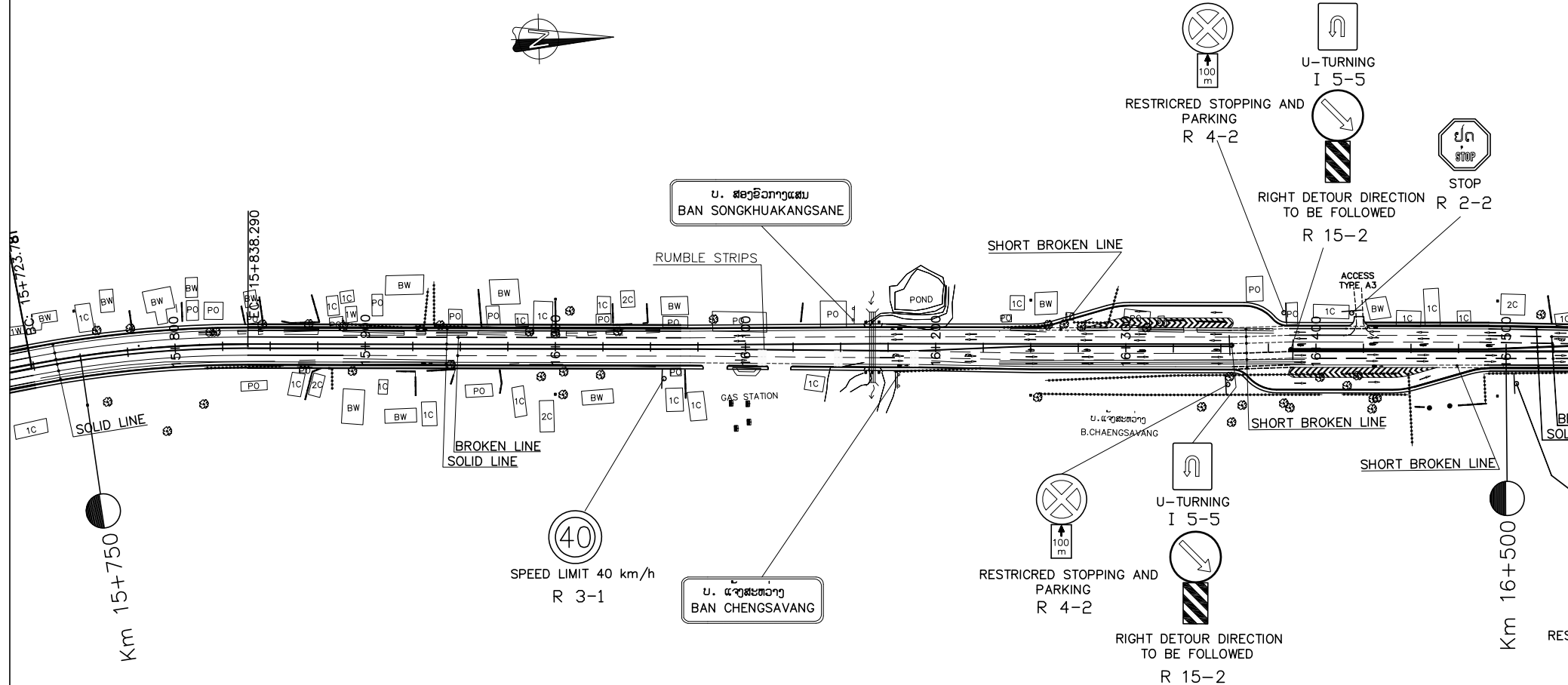
PLAN



NOTES :

- 1). PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
  - a). GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
  - b). STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- : AMBER FLASHING LIGHT
- : TRAFFIC SIGNAL
- : RIGHT OF WAY

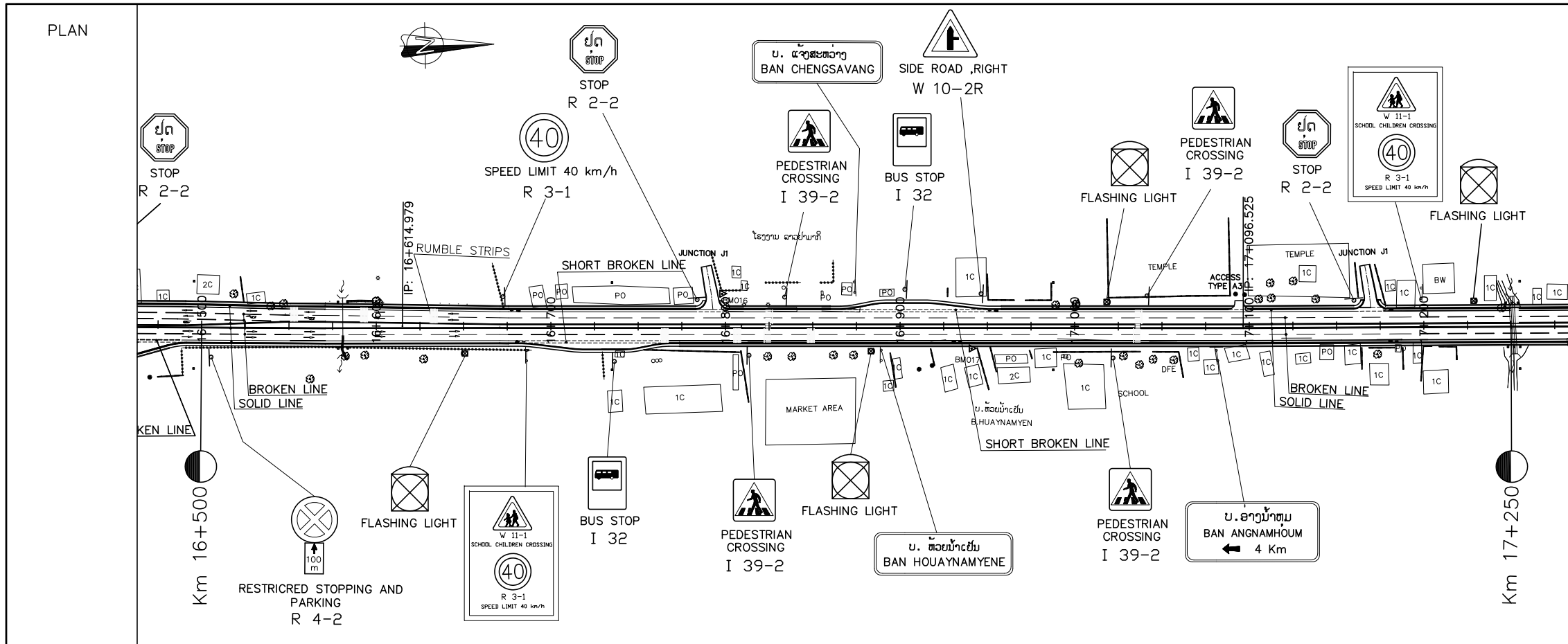


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

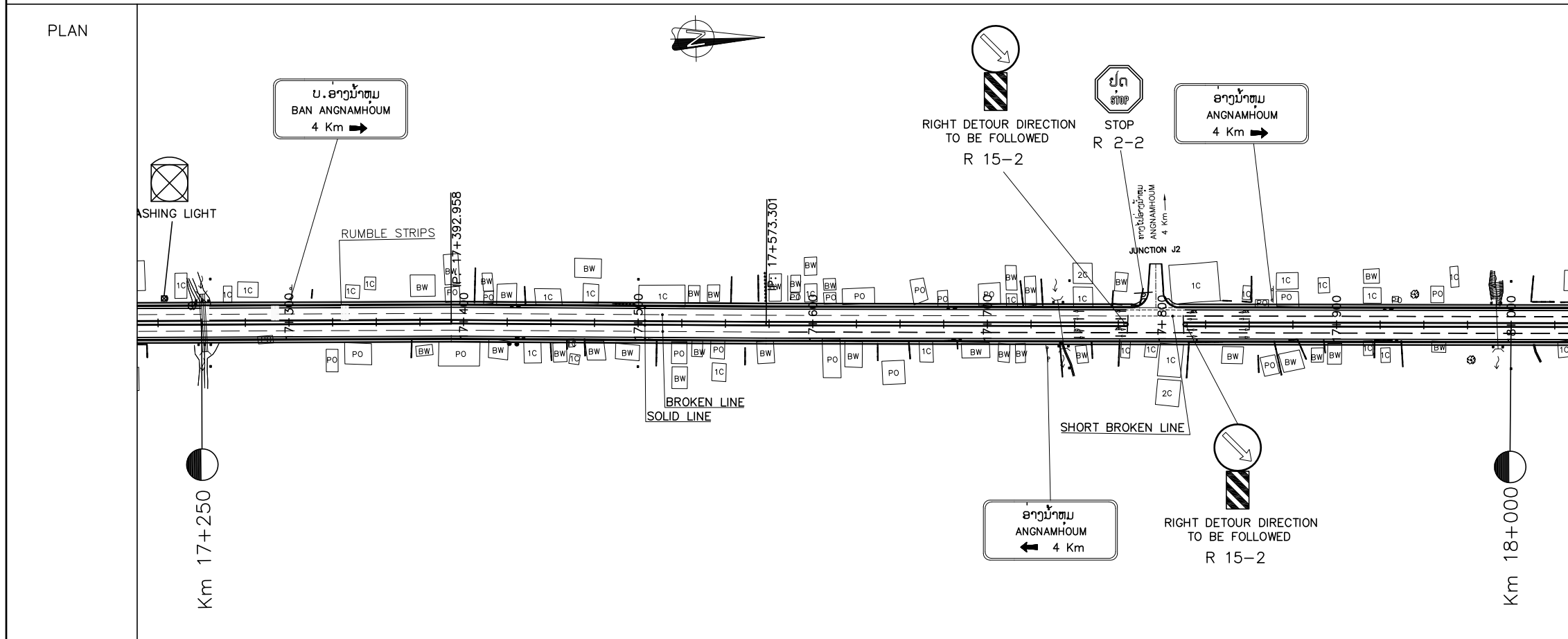
NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

PLAN FOR  
TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
Km 15+000 - Km 16+500

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-011
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:3000



- NOTES :
- PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
    - GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
    - STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
  - AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.



- LEGEND:
- : AMBER FLASHING LIGHT
  - : TRAFFIC SIGNAL
  - : RIGHT OF WAY

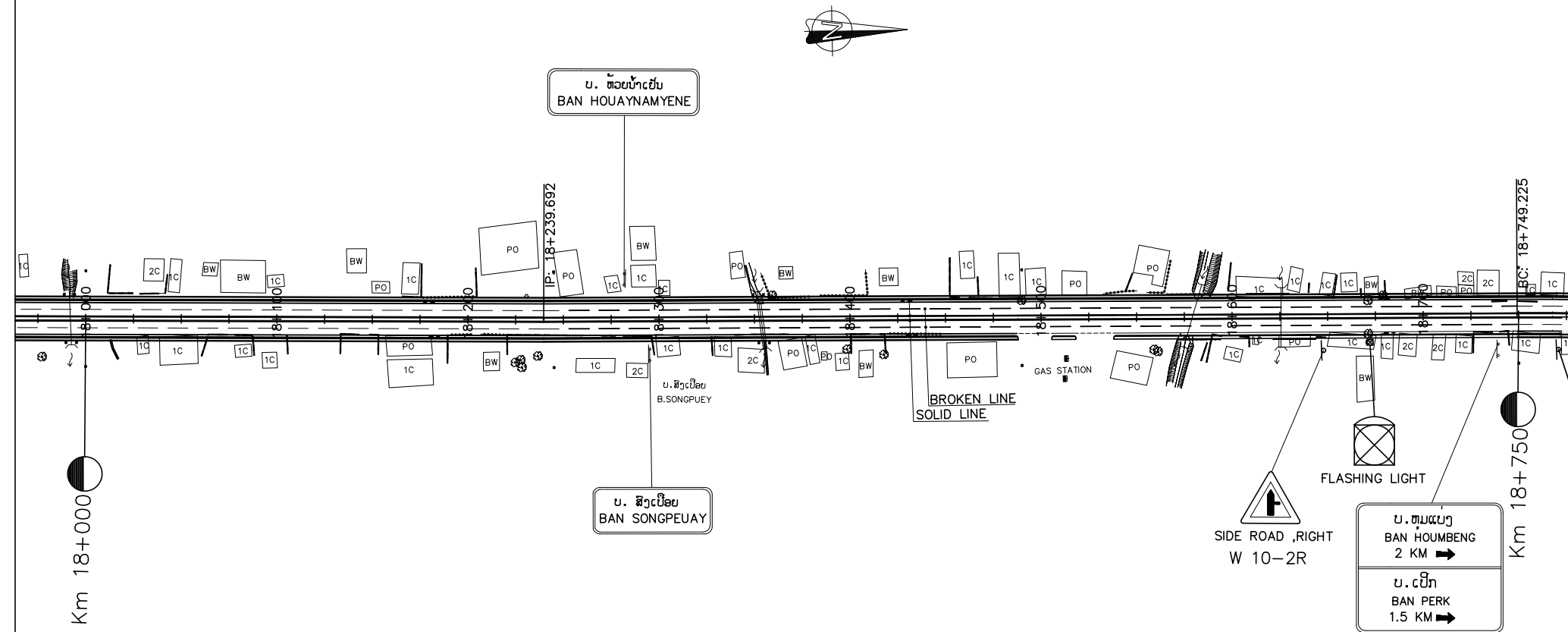


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN FOR  
TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
Km 16+500 - Km 18+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. TCP-012
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:3000

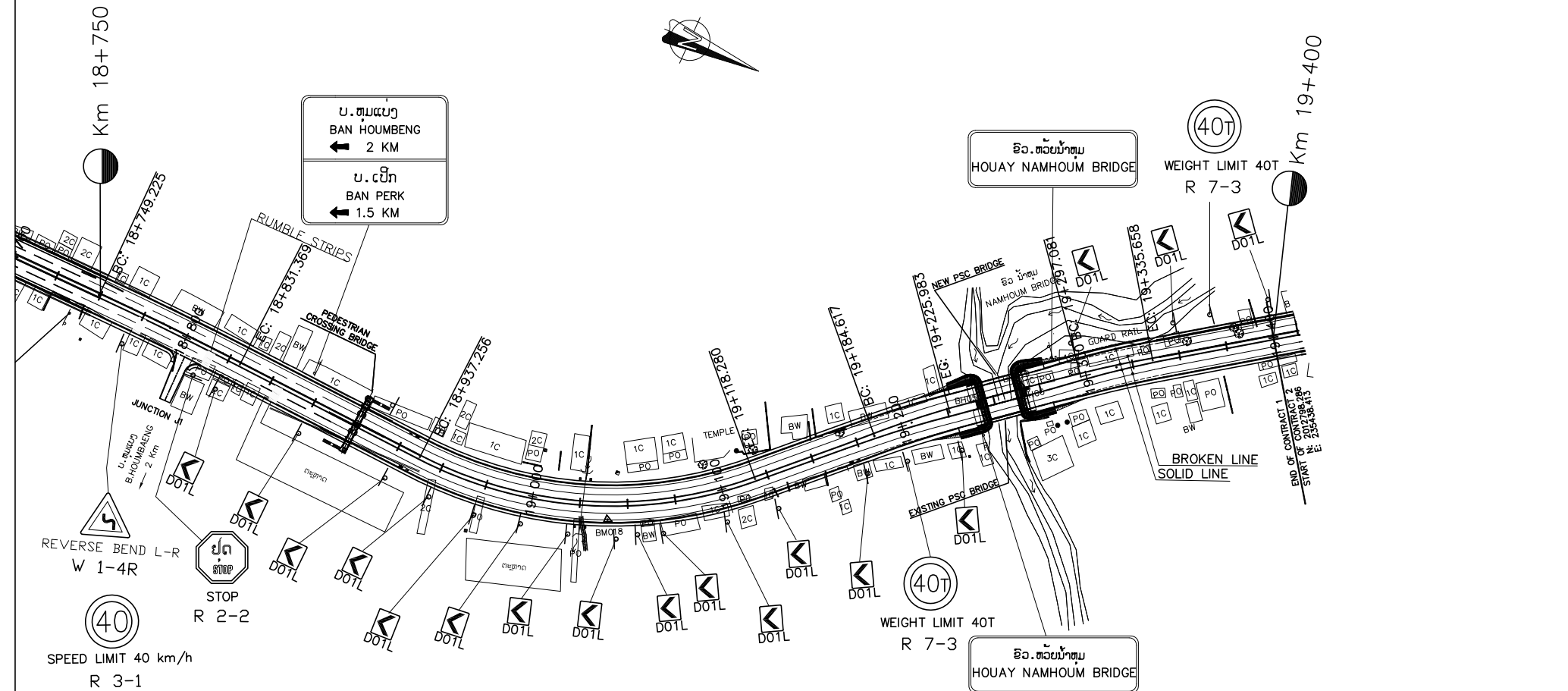
PLAN






NOTES :

- 1). PAVEMENT MARKING AT THE ACCESS ROADS/JUNCTION MARKING AT THE EDGE OF PAVEMENT OF THE MAJOR ROAD SHALL BE CONSIDERED CORRESPONDINGLY WITH THE ROAD SIGNS TO BE INSTALLED FOR SIDE ROADS AS THE FOLLOWS TYPES.
  - a). GIVE WAY SIGN: PAINT OF GIVEWAY LINE (SEE STANDARD DEAWING).
  - b). STOP SIGN: PAINT OF STOP LINE (SEE STANDARD DEAWING).
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

-  : AMBER FLASHING LIGHT
-  : TRAFFIC SIGNAL
-  : RIGHT OF WAY



ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
PLAN FOR  
TRAFFIC CONTROL DEVICES AND MISCELLANEOUS  
Km 18+000 - Km 19+400

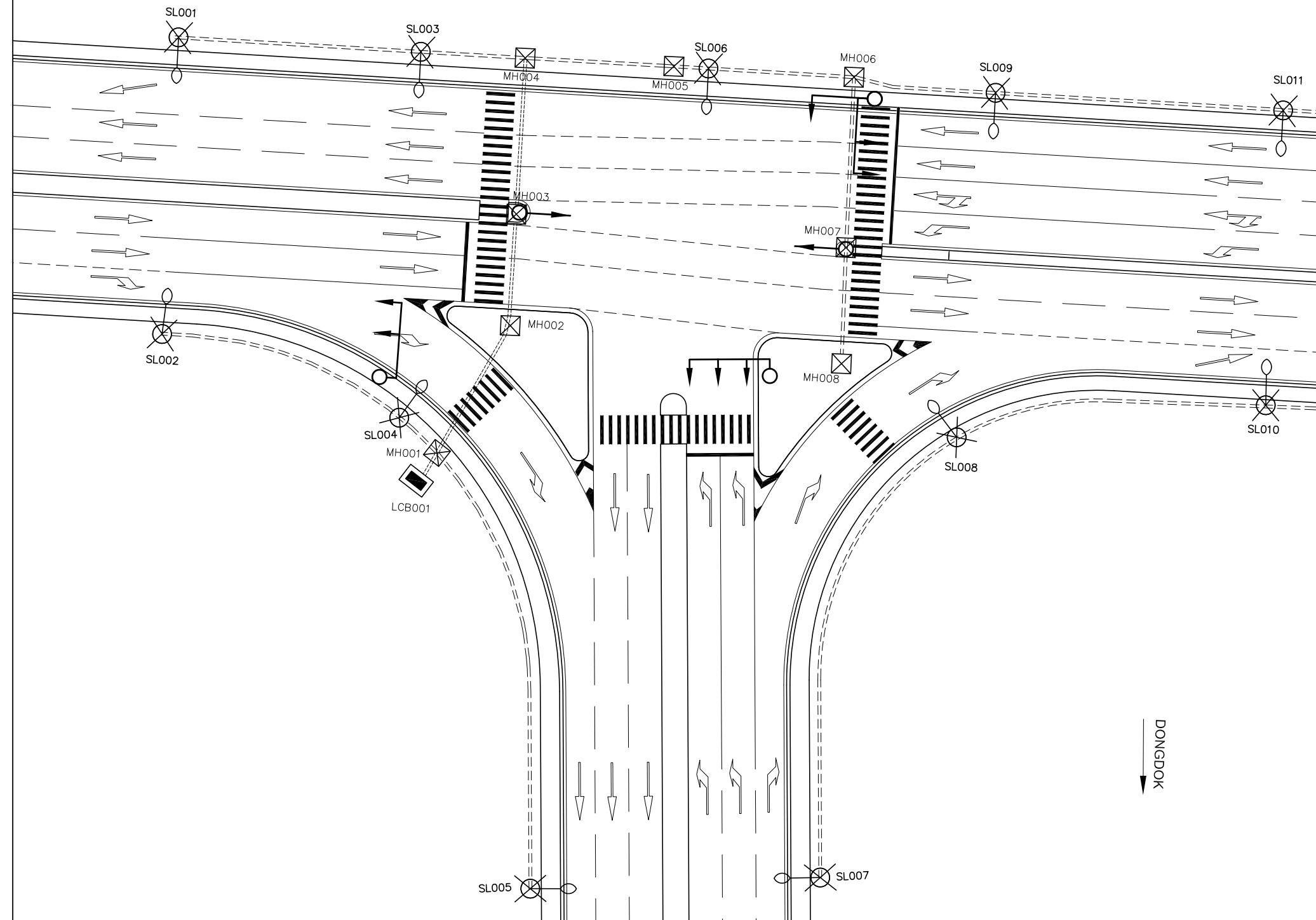
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. TCP-013
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 3000

# TRAFFIC SIGNAL PLAN

PLAN

SIKHAI ←

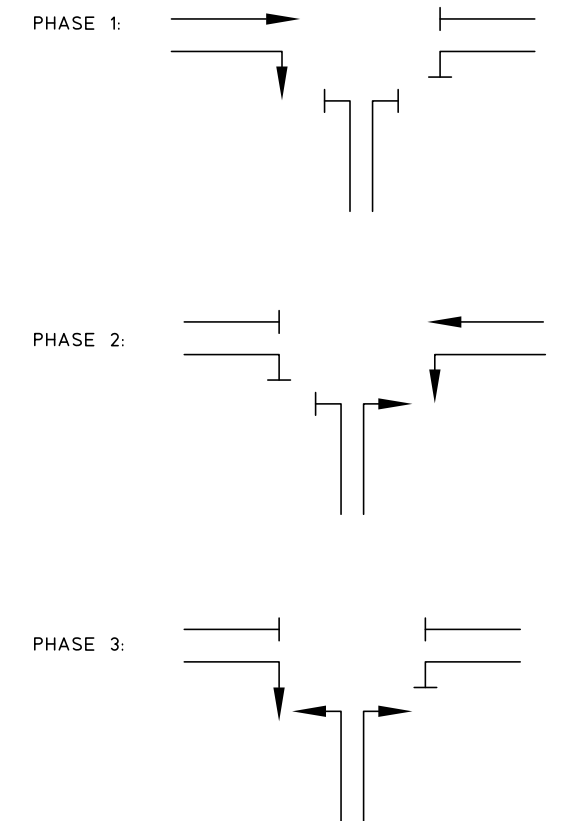
→ PHONHONG



LEGEND:

- :TRAFFIC SIGNAL
- :LOAD CONTROL BOX
- :LOAD CONTROL BOX
- :MANHOLE
- :LAMP No.
- :LAMP No.
- :PVC PIPE
- :PRINCIPAL THREE DISK SIGNAL HEAD ON POLE (3 DISK, DIA 200 mm)
- SECONDAYR THREE DISK SIGNAL HEAD ON POLE REPEATER (3 DISK, DIA 100 mm)
- SECONDAYR THREE DISK SIGNAL HEAD ON POLE REPEATER (3 DISK, DIA 100 mm)
- :PB:PRINCIPAL THREE DISK SIGNAL HEAD ON MAST ARM (3 DISK, DIA 200 mm)

PROPOSED SIGNAL PHASES



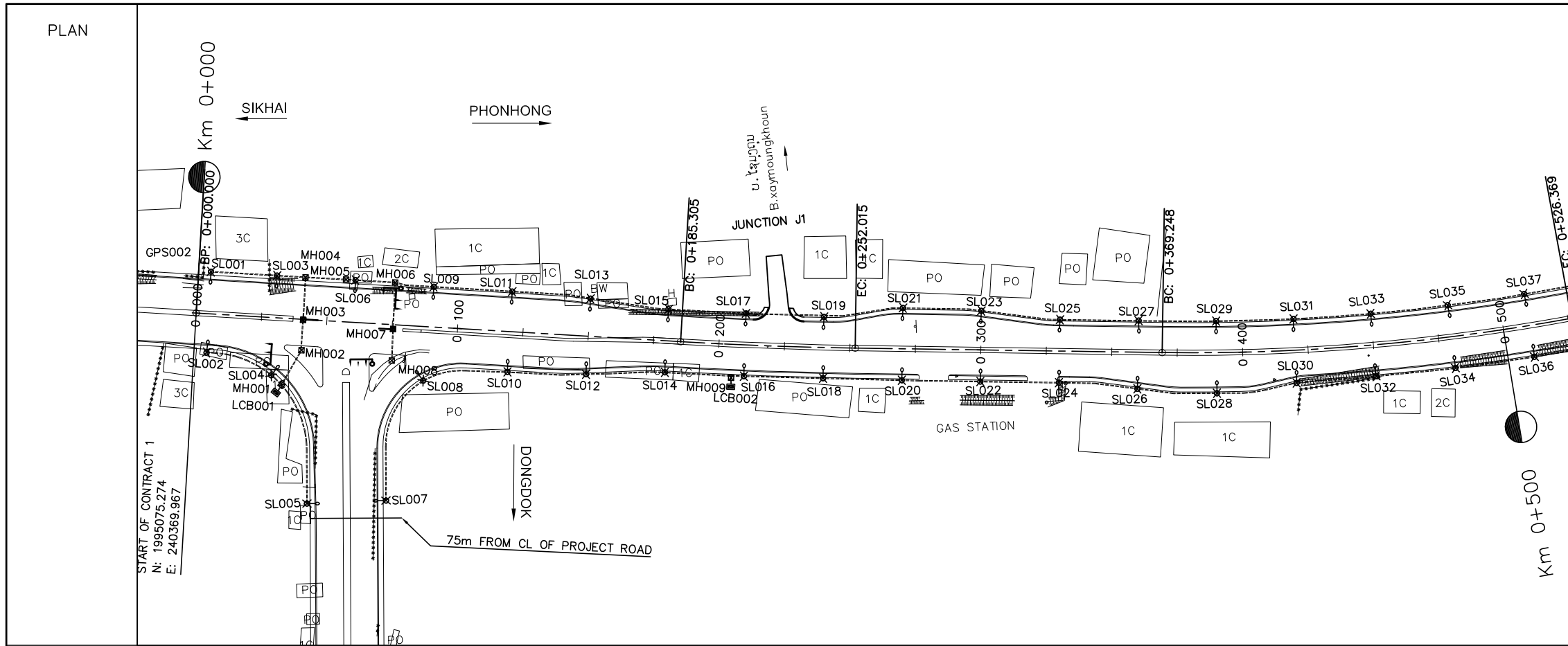
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY

TRAFFIC SIGNAL PLAN

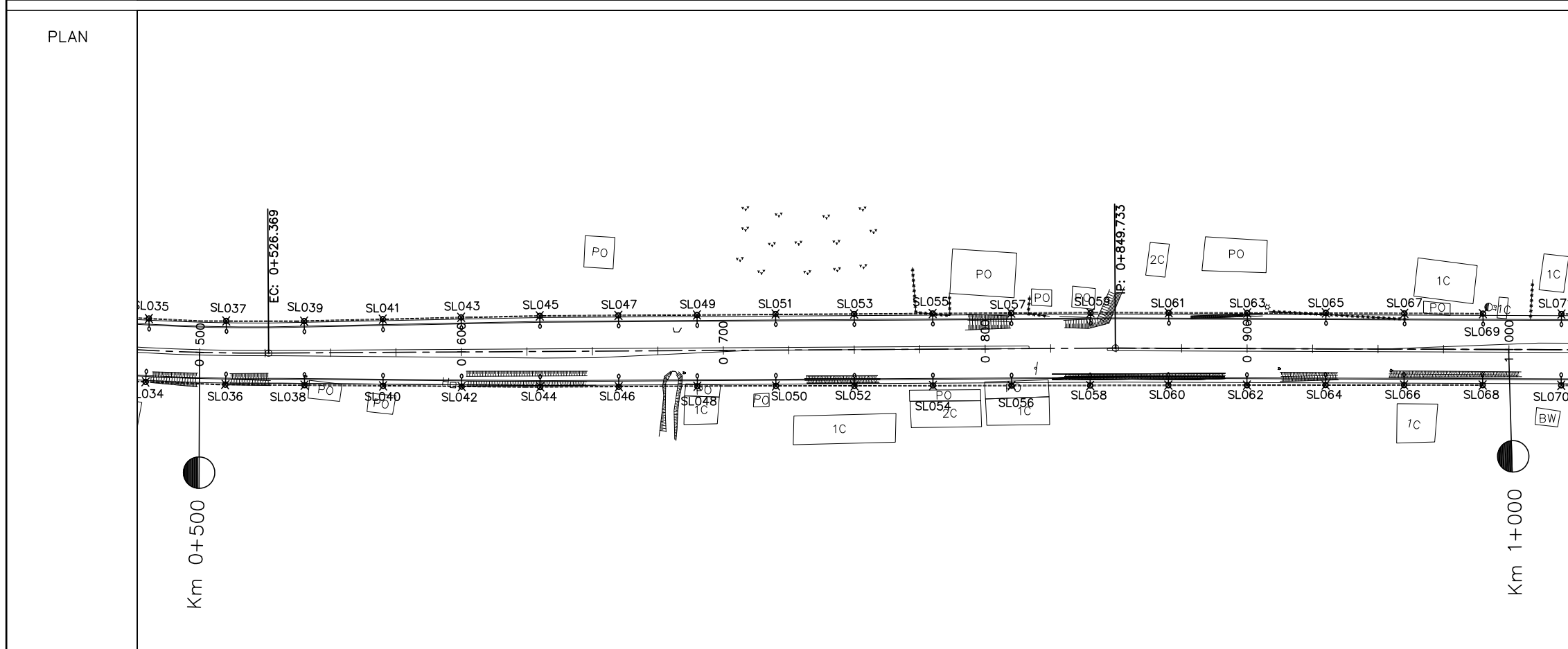
REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-259-16
			DESIGNED	Mr. Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr. Khamphone SORPHABMIXAY		DRW No. TSP-001
			APPROVED	Mr. Vandy VORASACK		SCALE: 1:500

# ELECTRIC PLANS



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

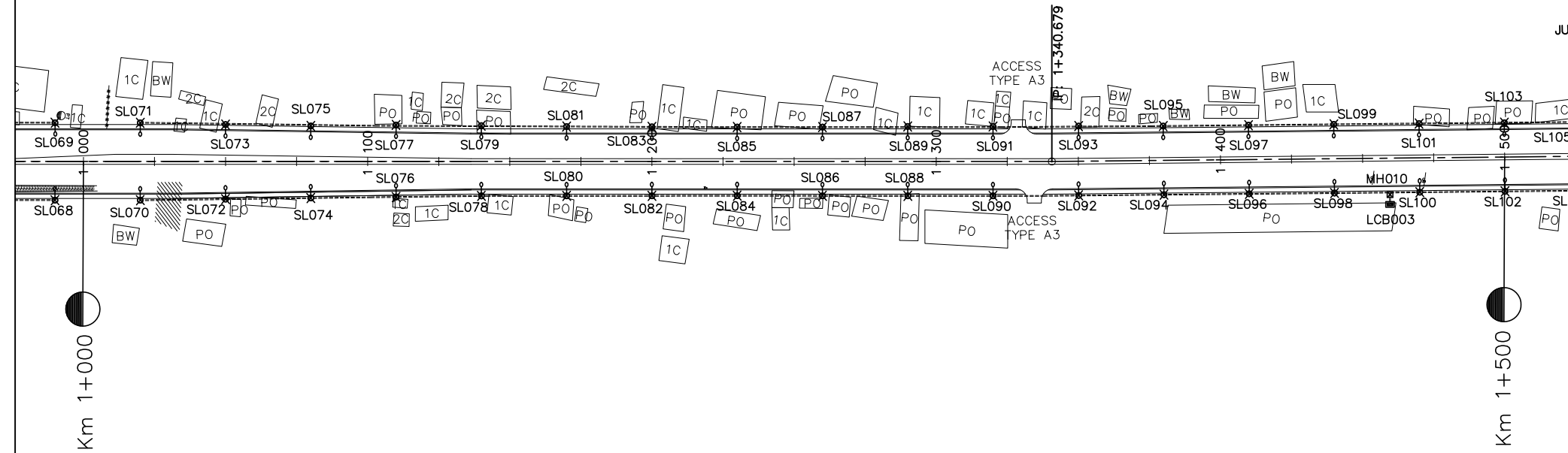


LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE

	<b>ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ</b> LAO TRANSPORT ENGINEERING CONSULTANT	<b>NR 13N IMPROVEMENT AND MAINTENANCE PROJECT</b> <b>CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY</b>	REV.	DATE	DESCRIPTION	APPROVED		NAME	SIGNATURE	LTEC CODE: SD-262-17	
	<b>ELECTRIC PLAN</b> <b>Km 0+000 - Km 1+000</b>							DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
								CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-001
								APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

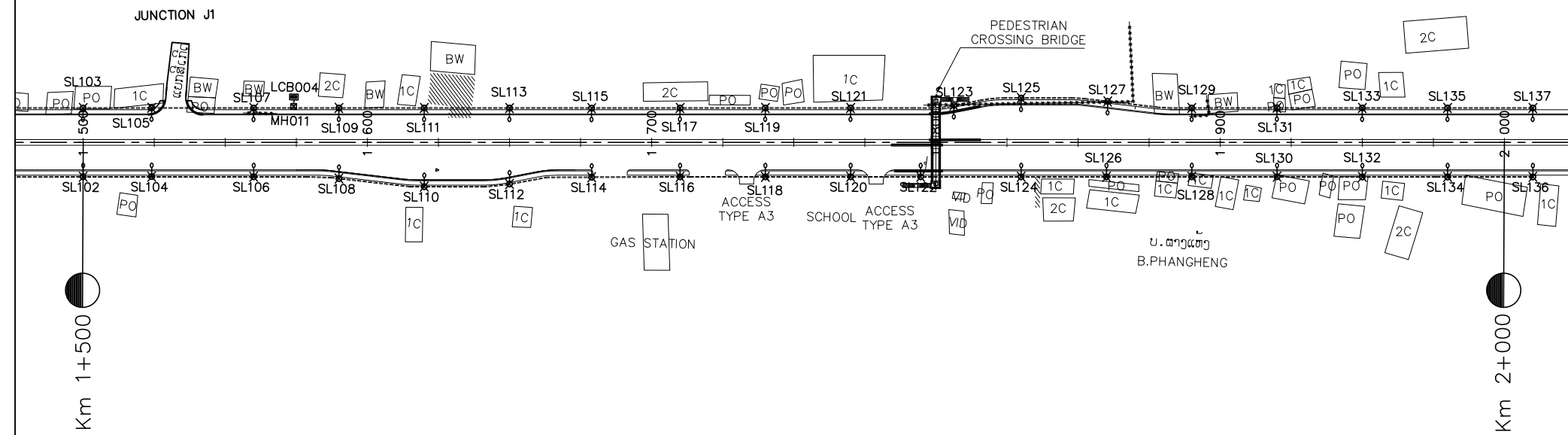
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



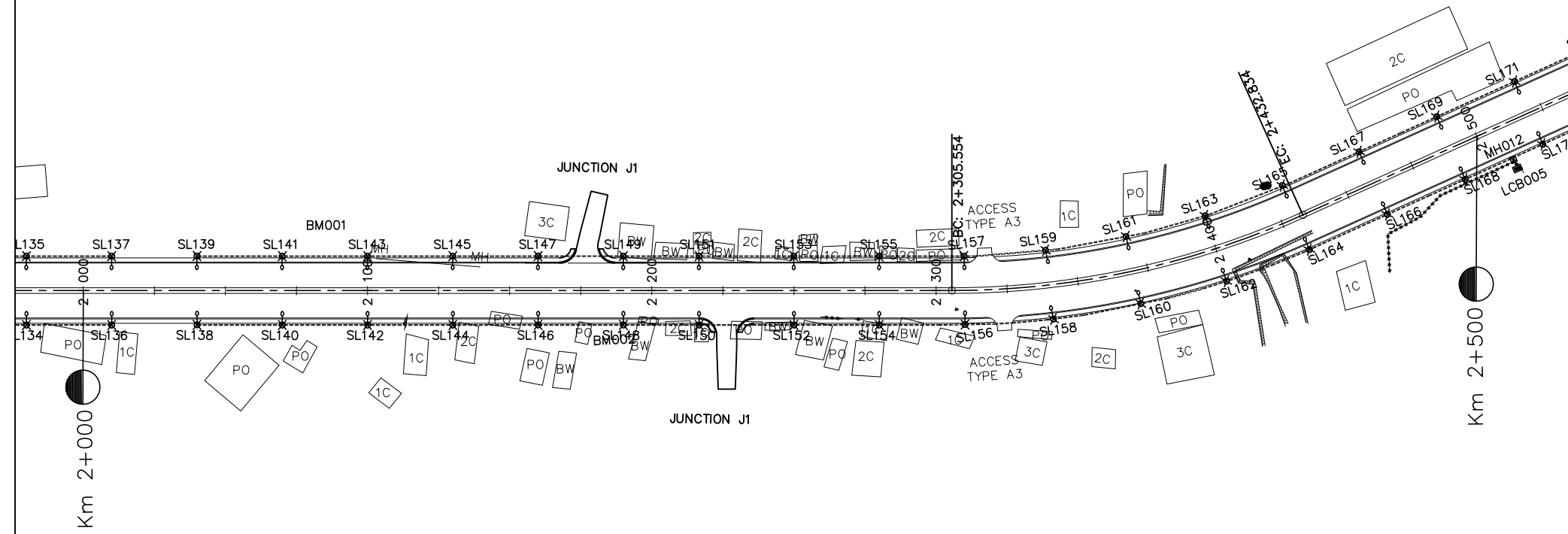
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 1+000 - Km 2+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-002
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

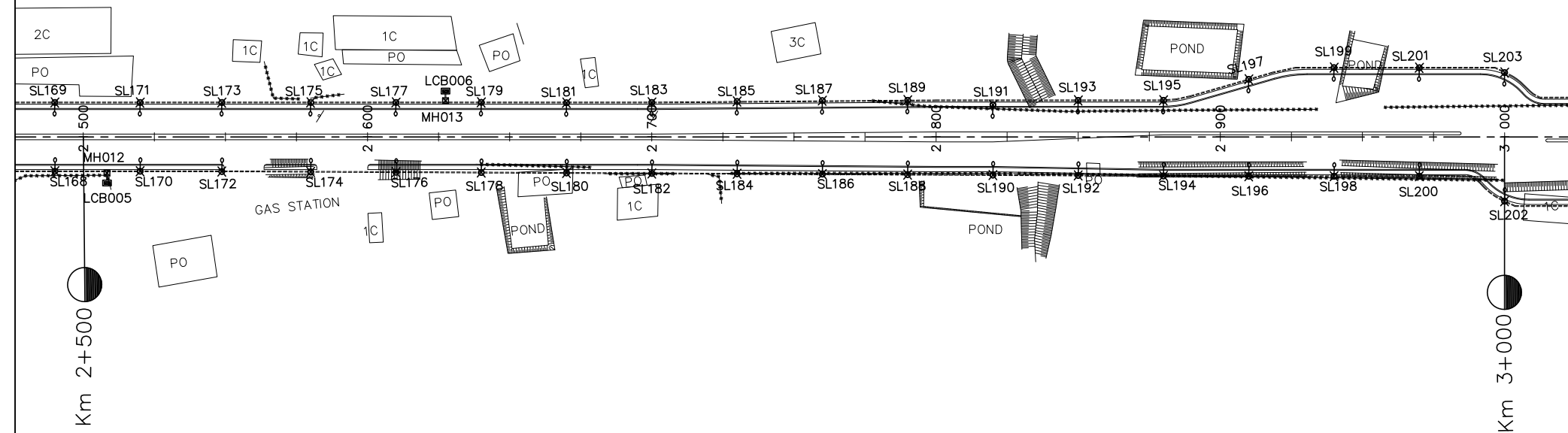
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



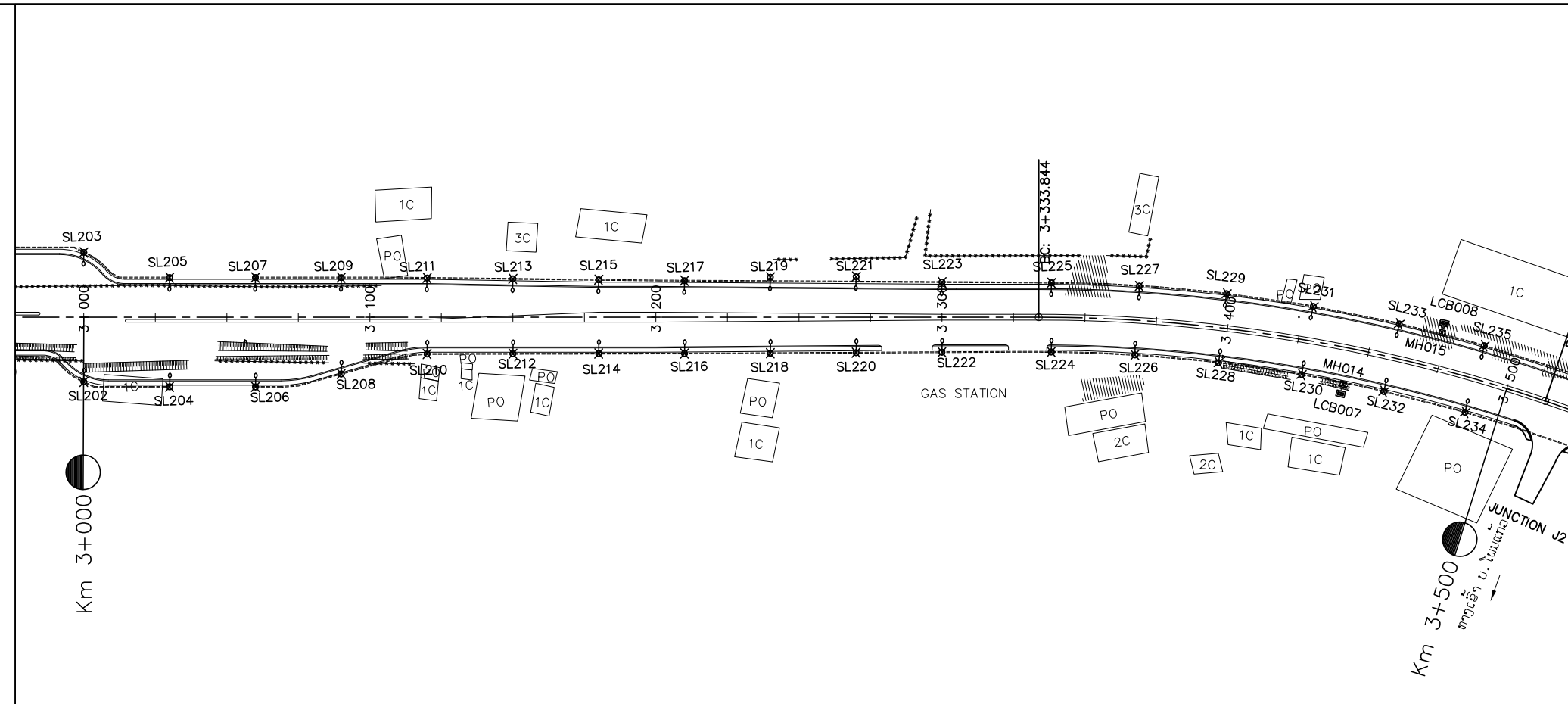
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 2+000 - Km 3+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-003
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

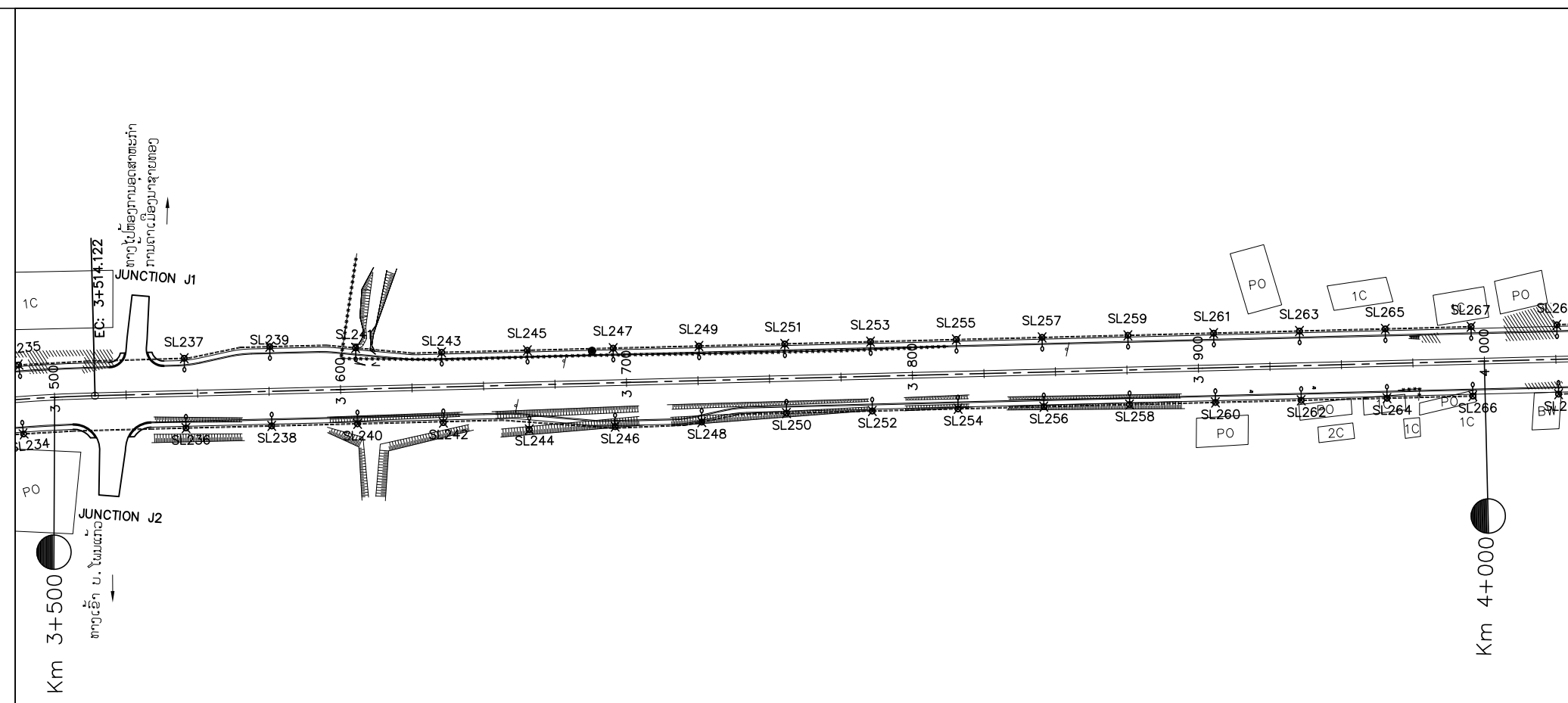
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



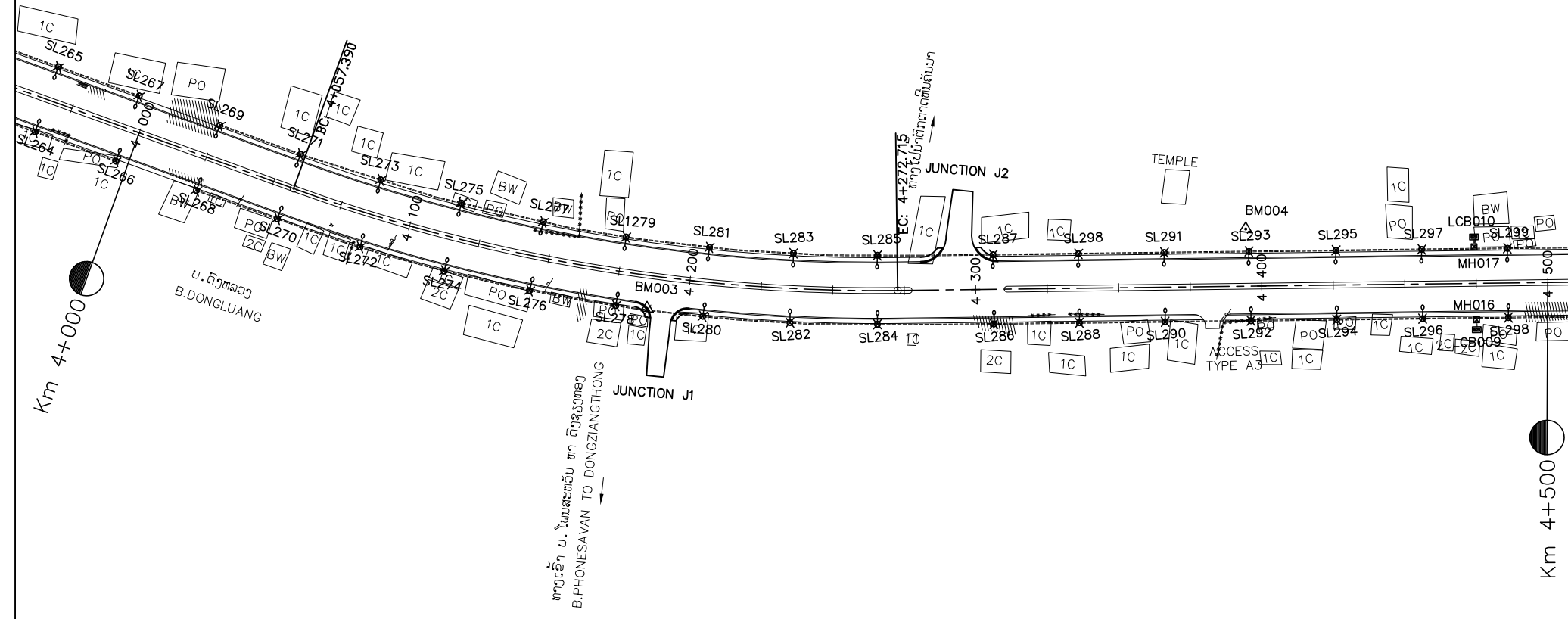
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 3+000 - Km 4+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-004
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

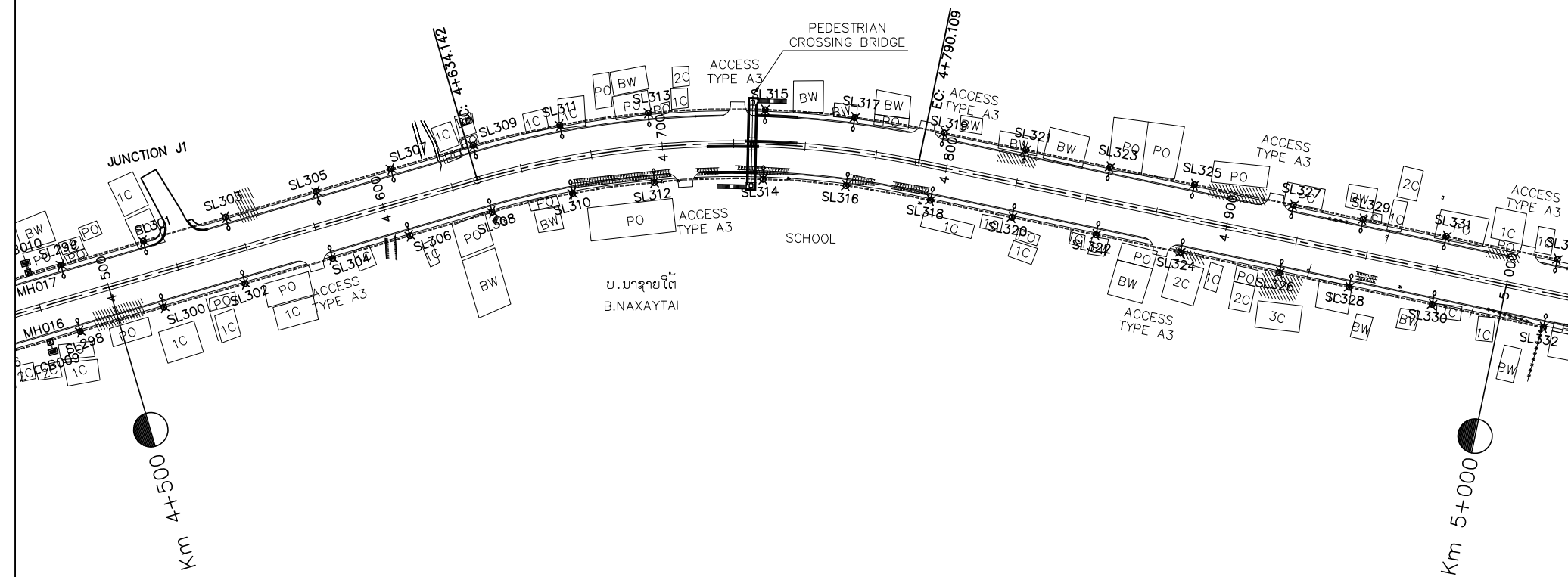
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



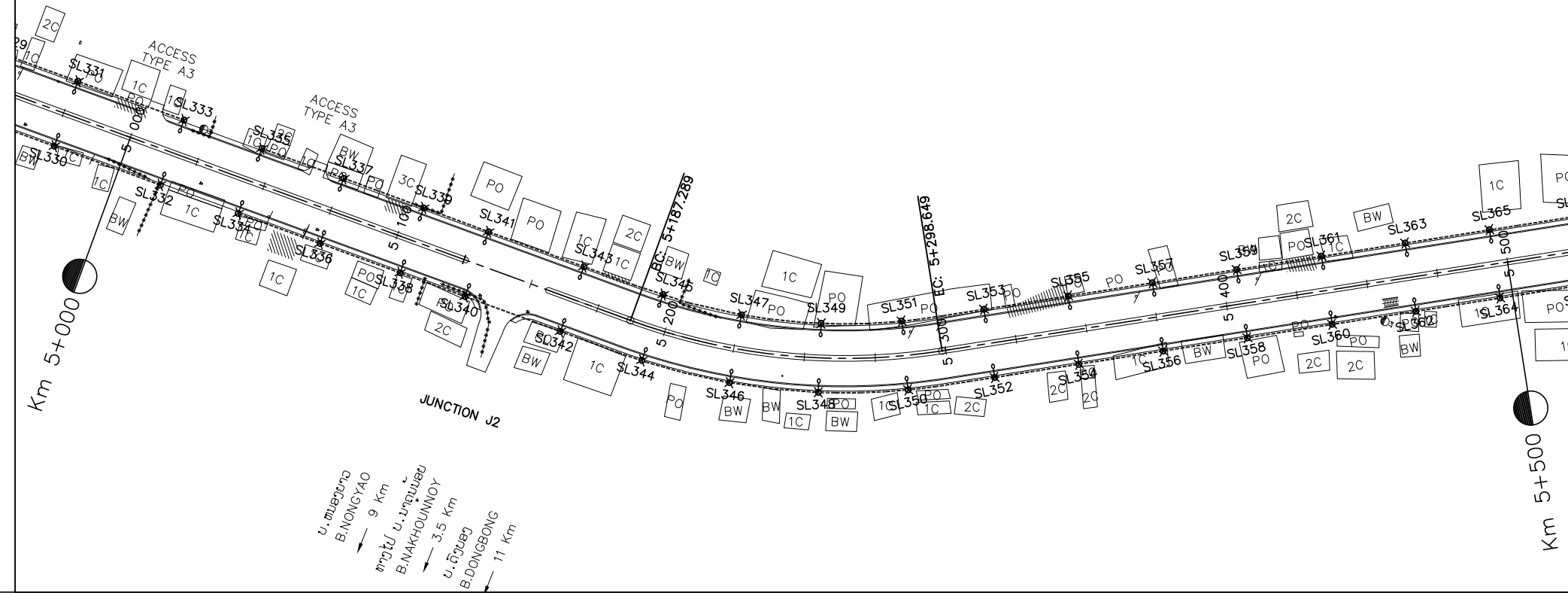
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 4+000 - Km 5+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
				DESIGNED	Mr.Souksavanh SYPHAKHAM	DATE: April, 2018
				CHECKED	Mr.Khamphone SORPHABMIXAY	DRW No. EPL-005
				APPROVED	Mr.Vandy VORASACK	SCALE: 1:2000

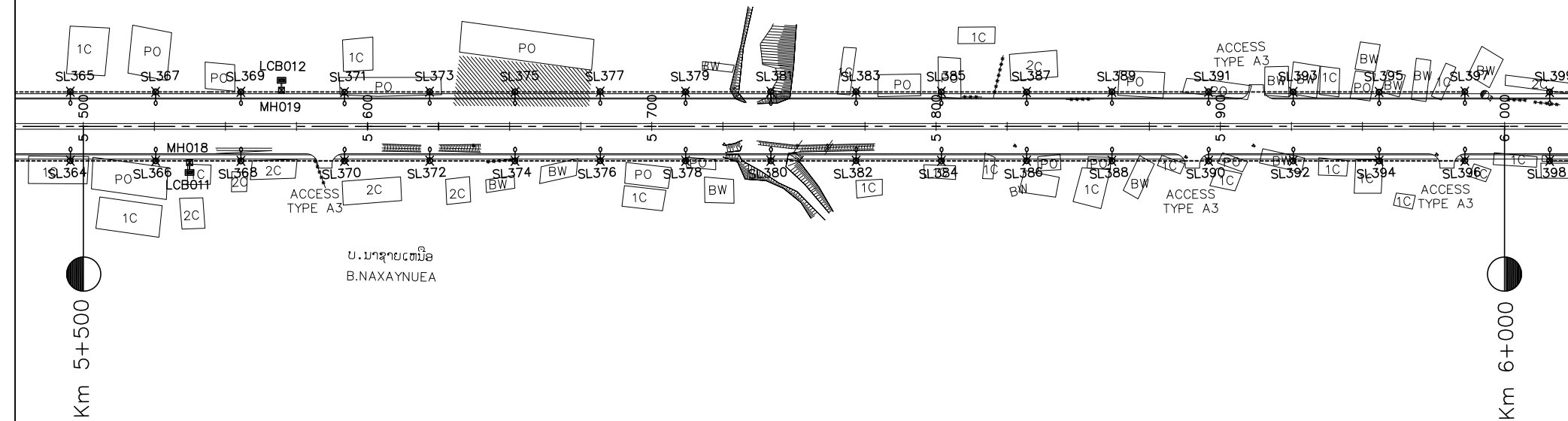
PLAN







NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

-  LCB001,LCB002..... :LOAD CONTROL BOX
-  MH001,MH002..... :MANHOLE
-  SL001,SL002..... :LAMP No.
-  :PVC PIPE



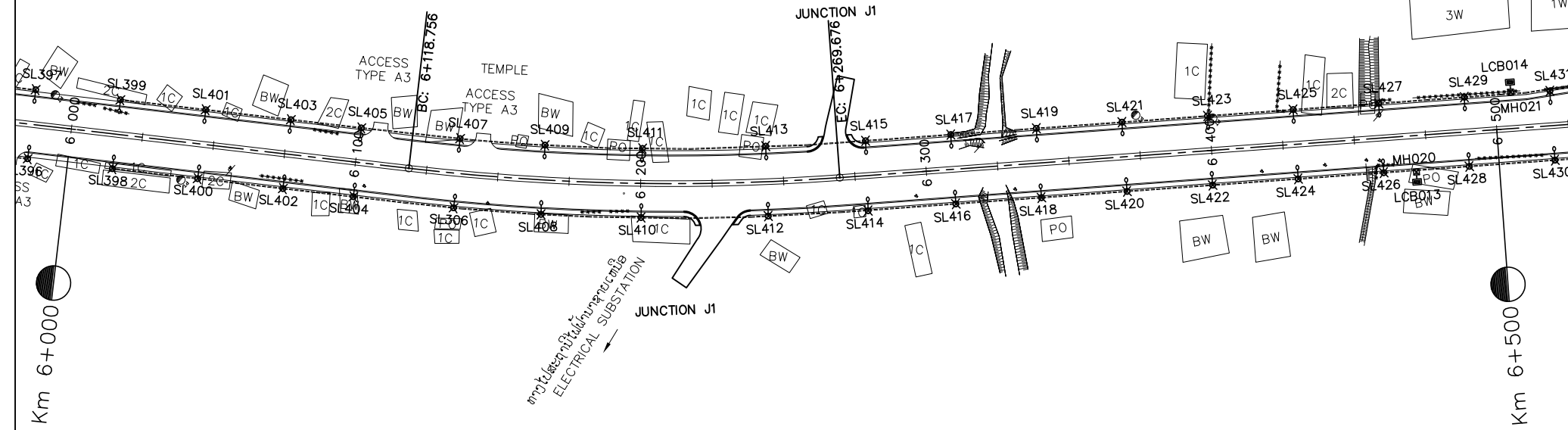
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 5+000 - Km 6+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-006
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

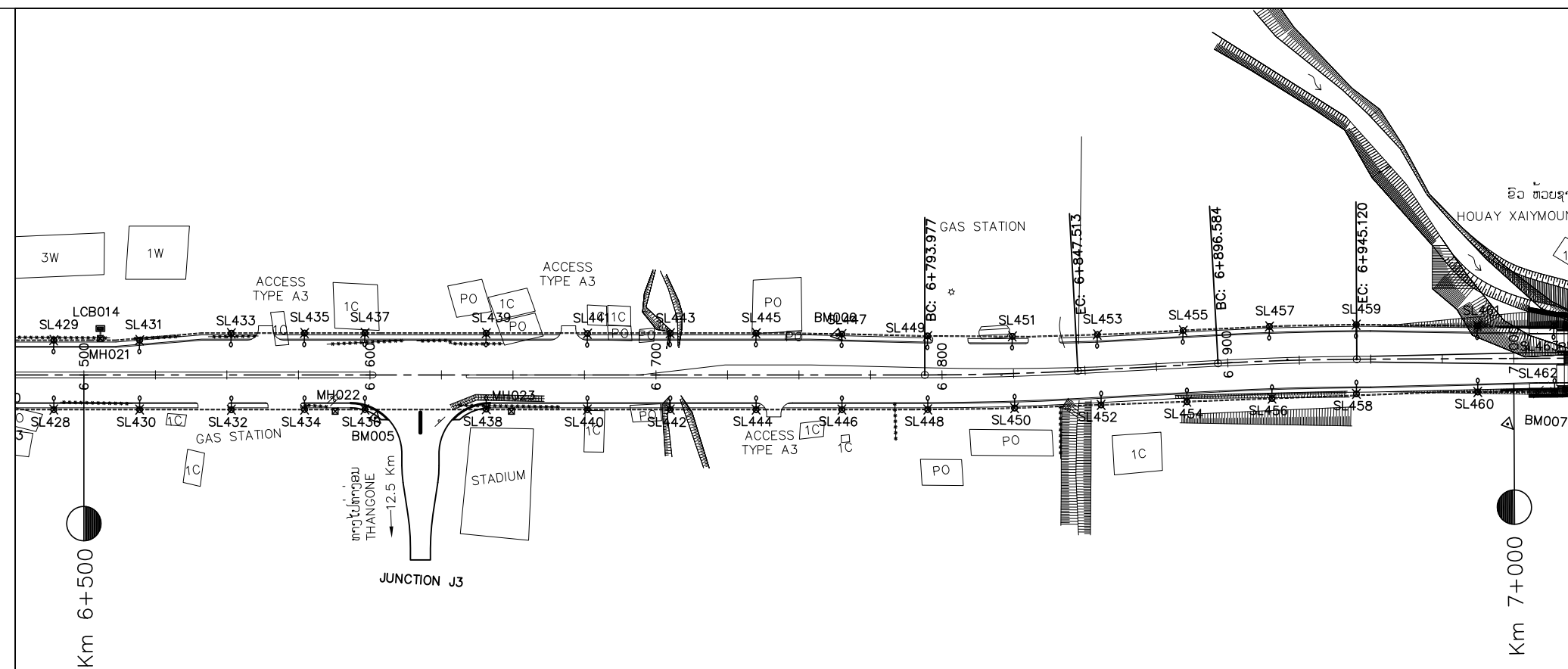
PLAN







NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

-  LCB001,LCB002..... :LOAD CONTROL BOX
-  MH001,MH002..... :MANHOLE
-  SL001,SL002..... :LAMP No.
-  = = :PVC PIPE



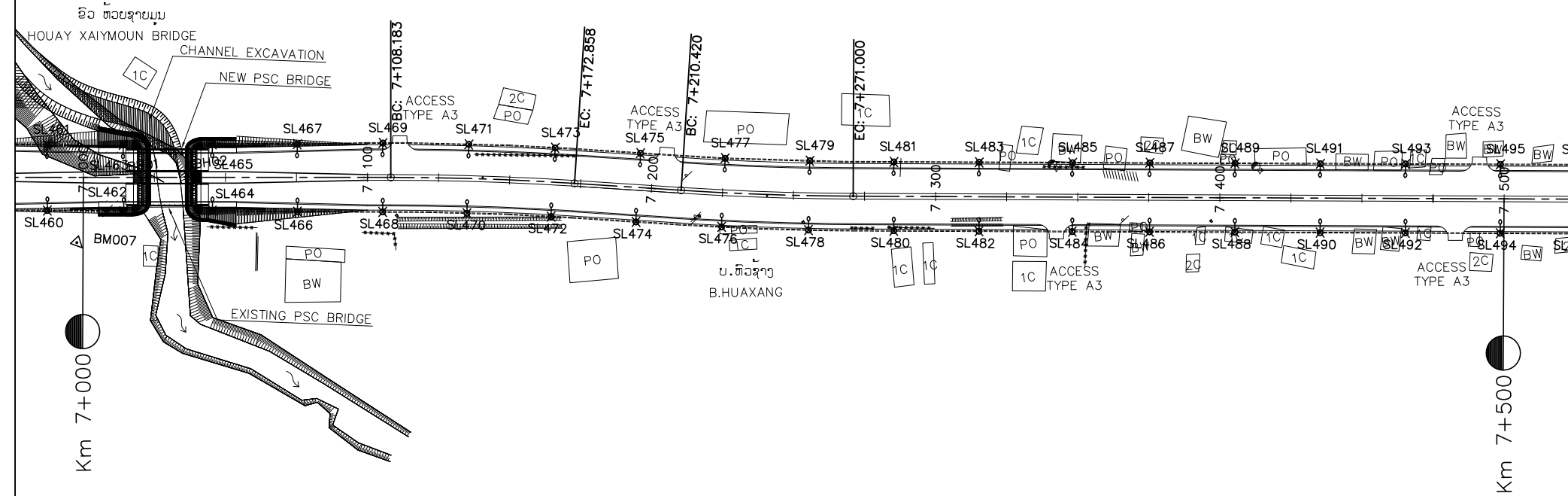
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 6+000 - Km 7+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-007
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

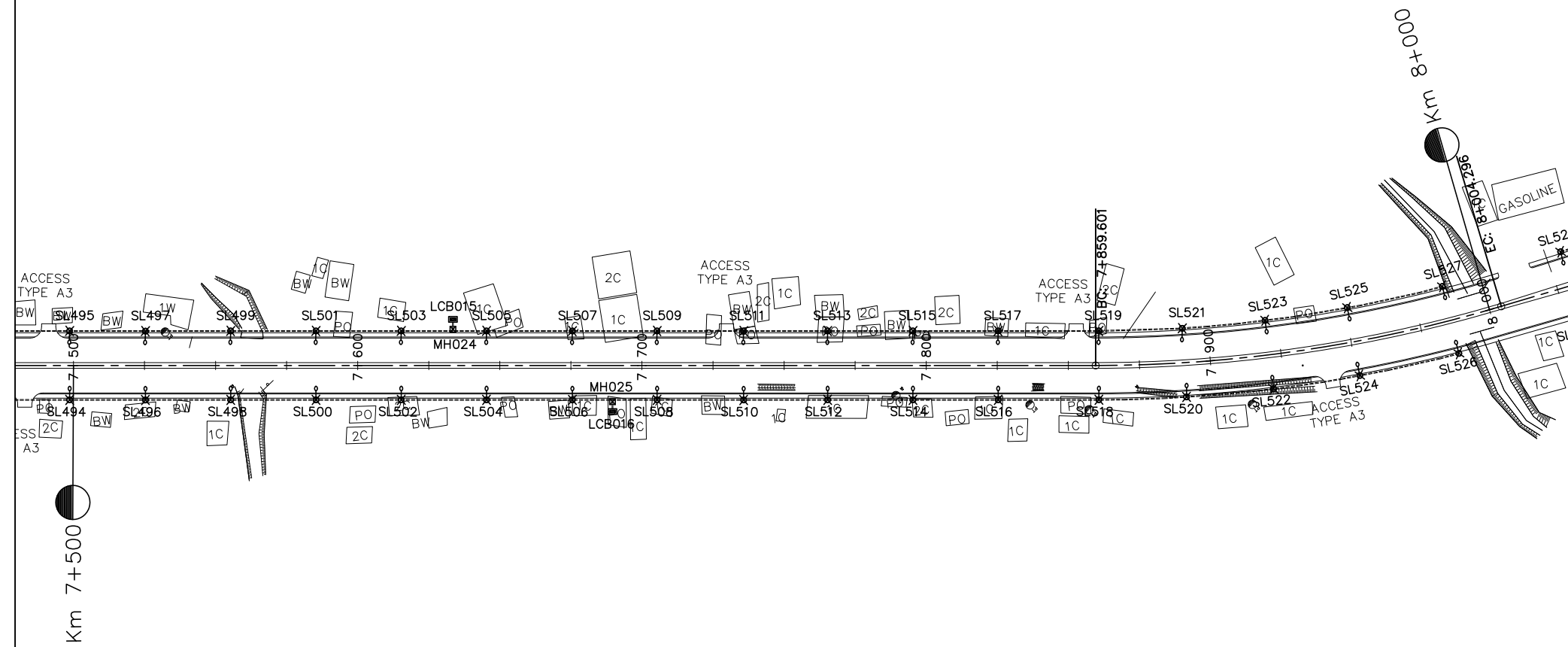
PLAN







NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

-  LCB001,LCB002..... :LOAD CONTROL BOX
-  MH001,MH002..... :MANHOLE
-  SL001,SL002..... :LAMP No.
-  = = :PVC PIPE



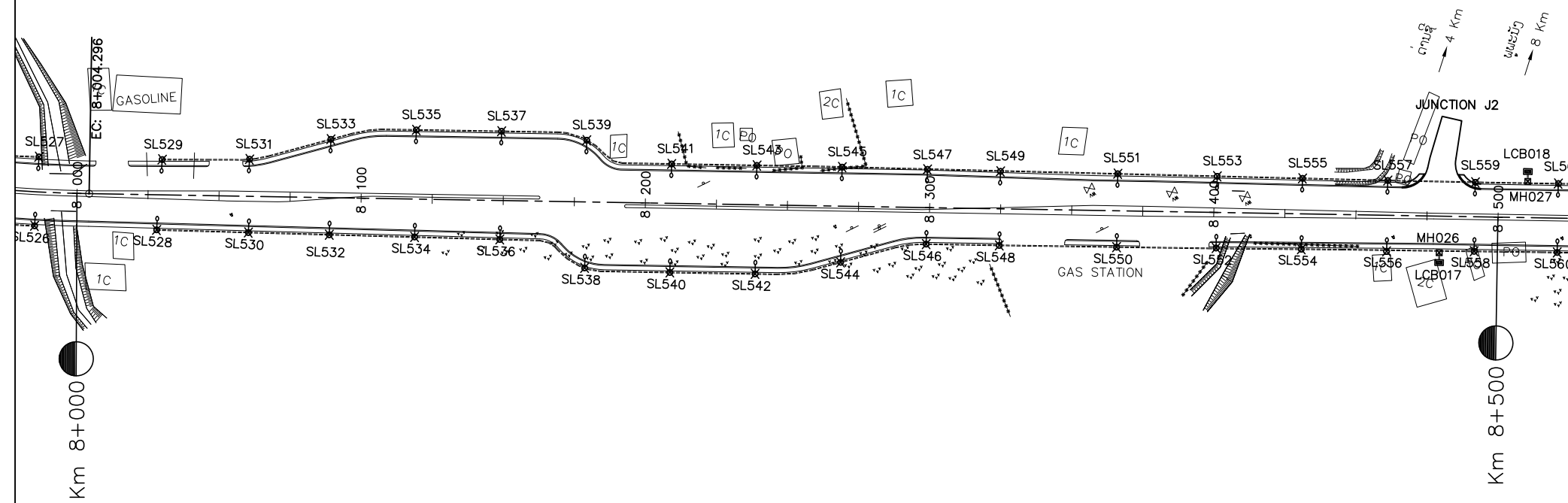
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 7+000 - Km 8+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-008
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

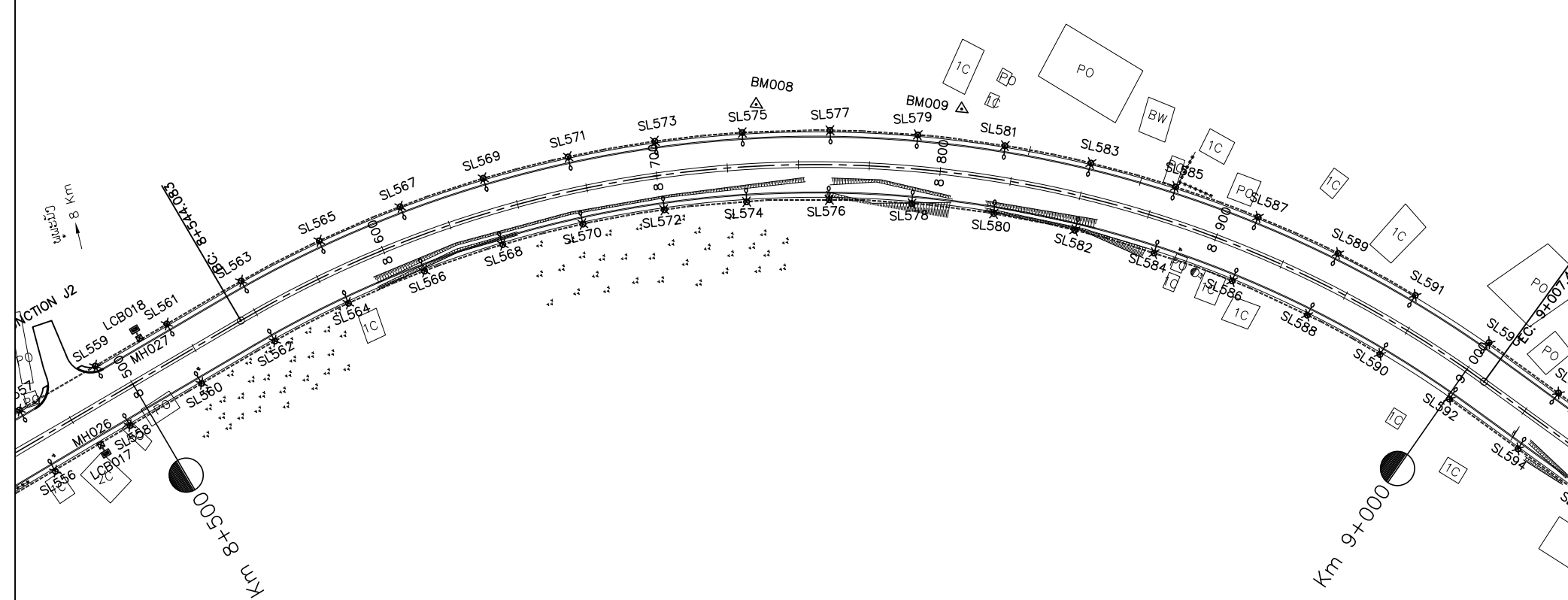
PLAN







NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

-  LCB001,LCB002..... :LOAD CONTROL BOX
-  MH001,MH002..... :MANHOLE
-  SL001,SL002..... :LAMP No.
-  :PVC PIPE



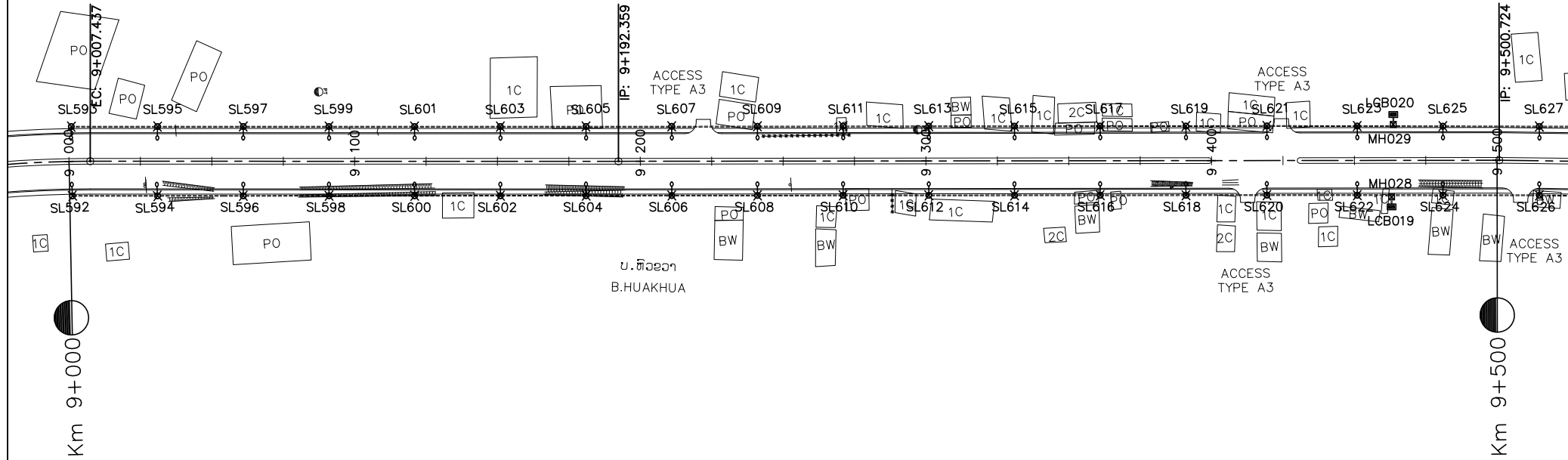
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 8+000 - Km 9+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-009
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

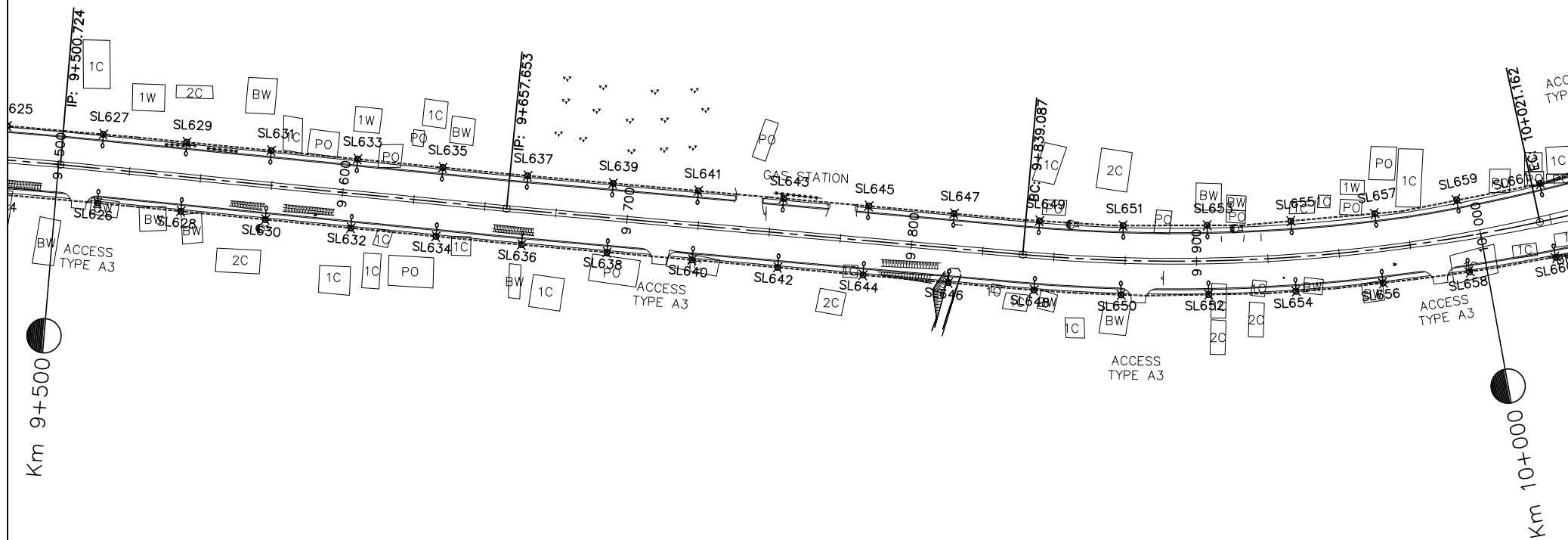
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



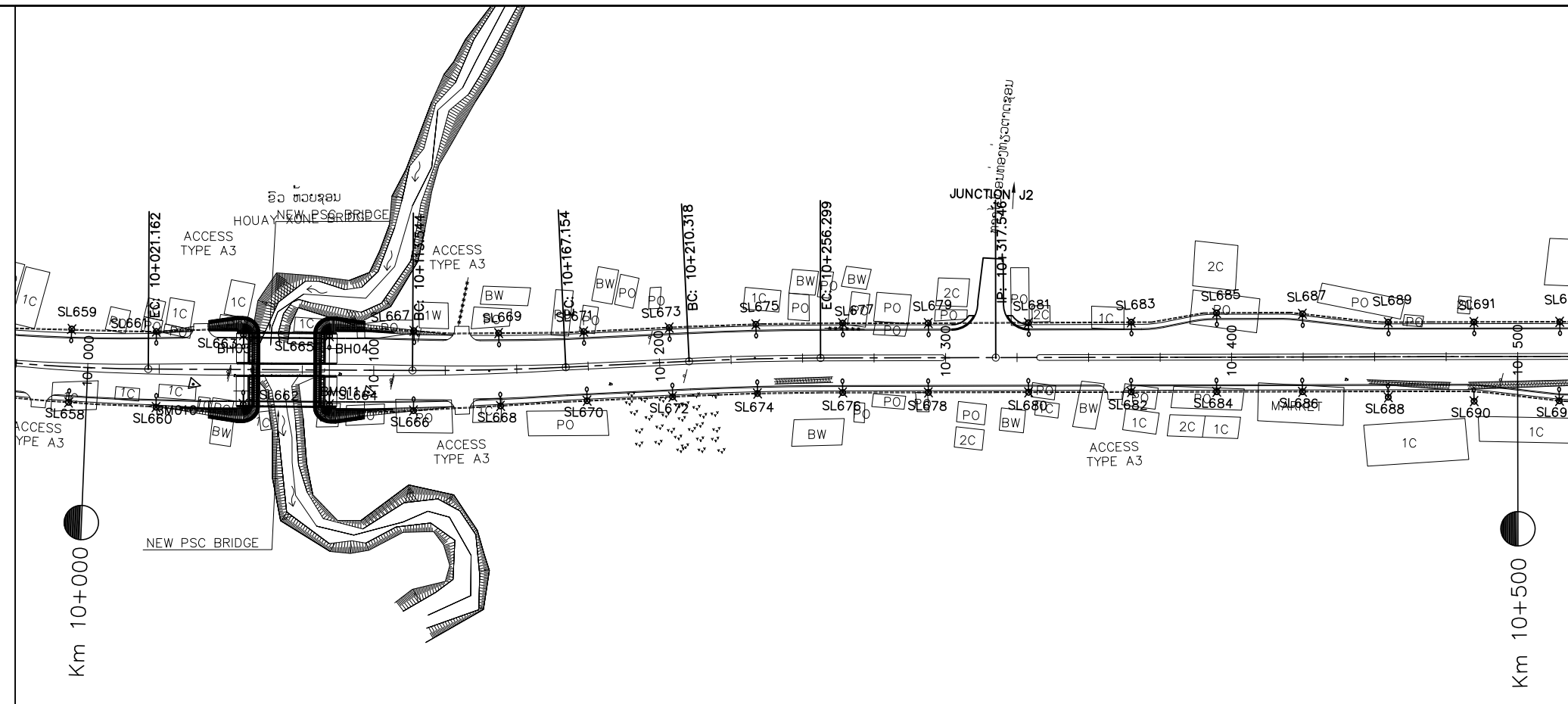
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 9+000 - Km10+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-010
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

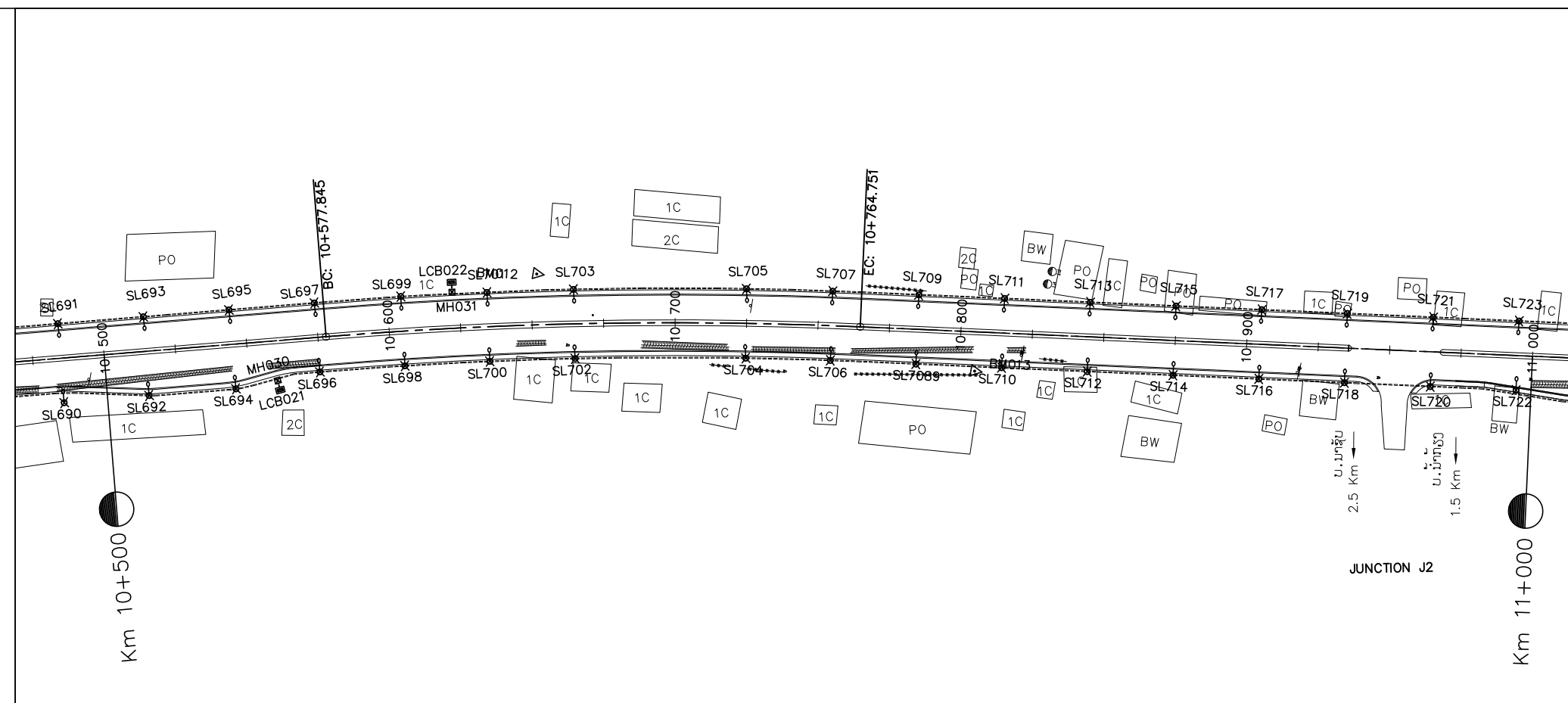
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- = = :PVC PIPE

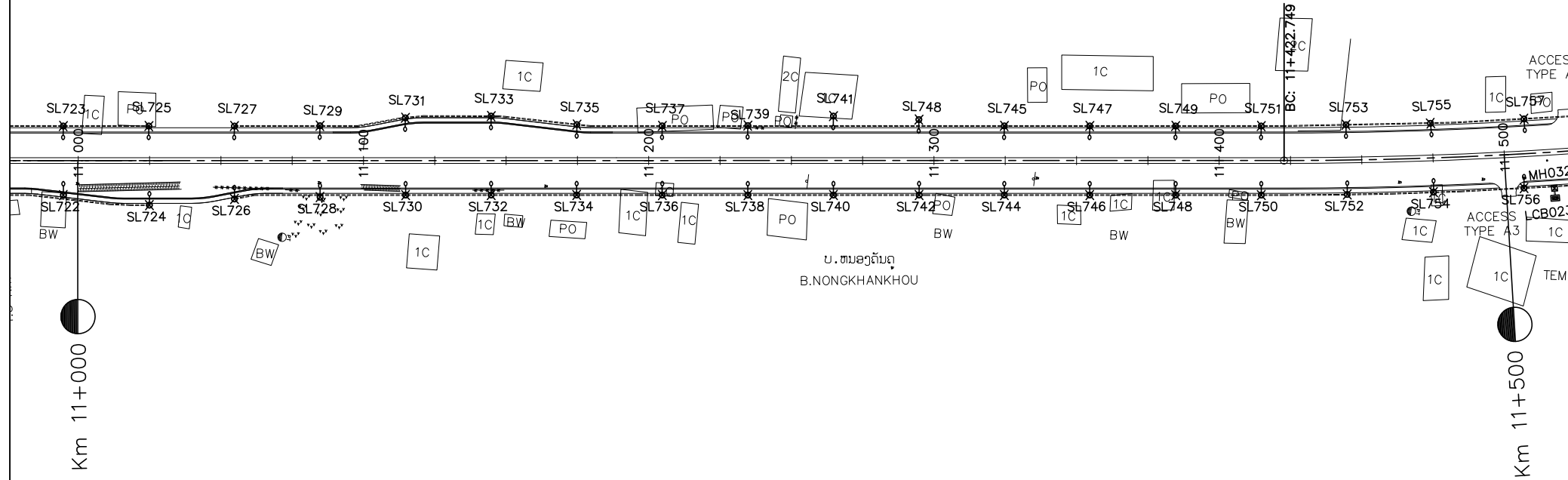


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY  
  
ELECTRIC PLAN  
Km 10+000 - Km 11+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. EPL-011
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

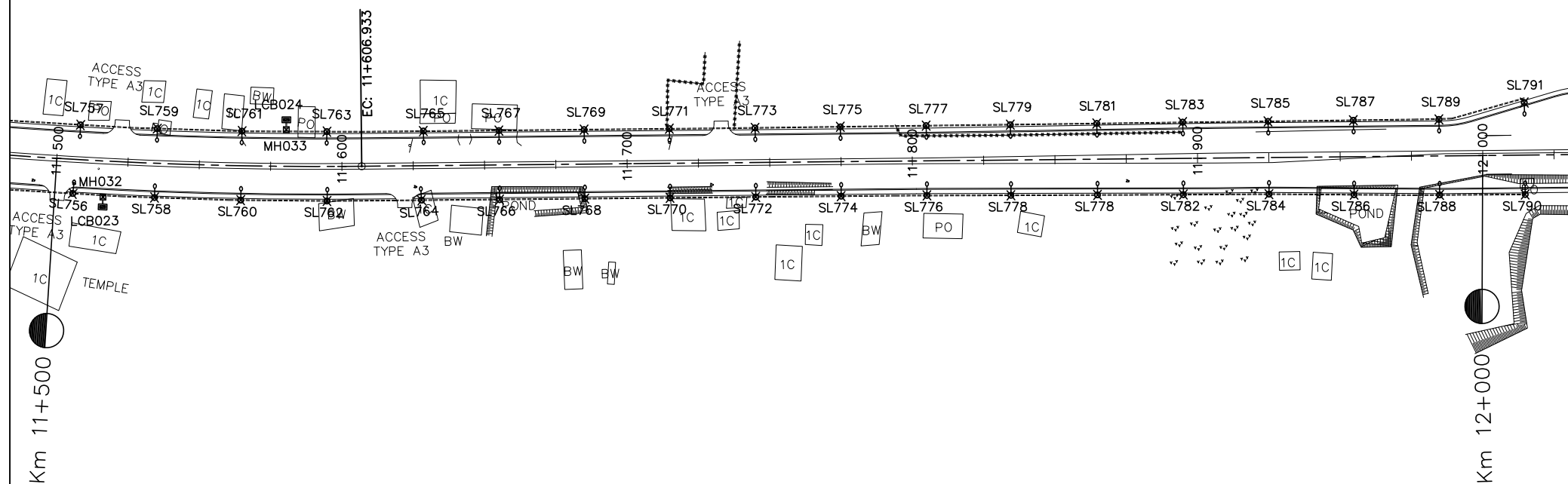
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUNG BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



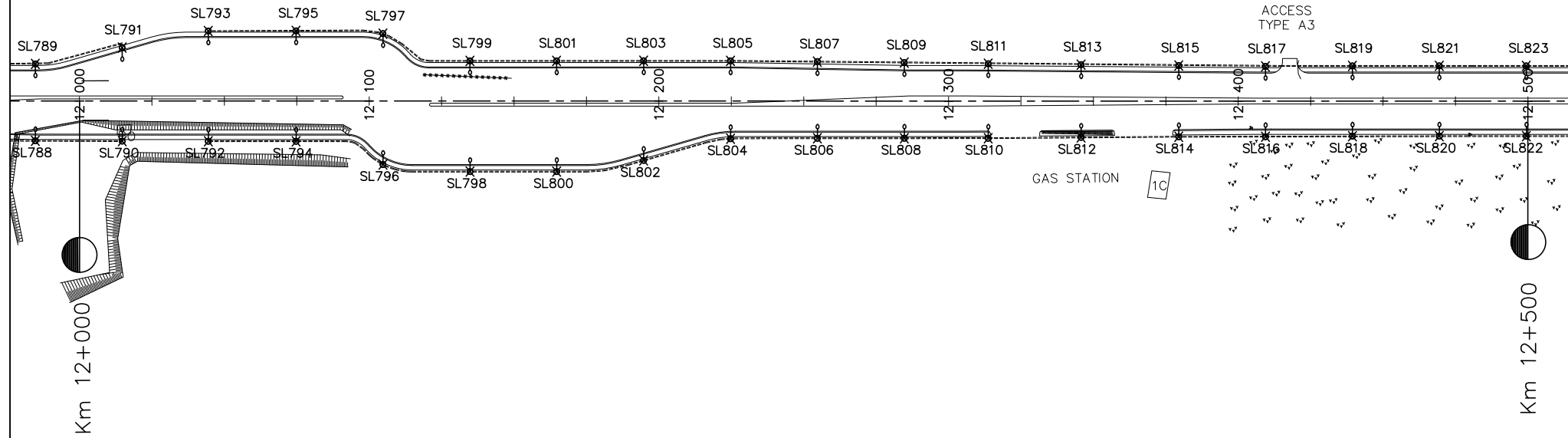
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 11+000 - Km 12+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-012
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

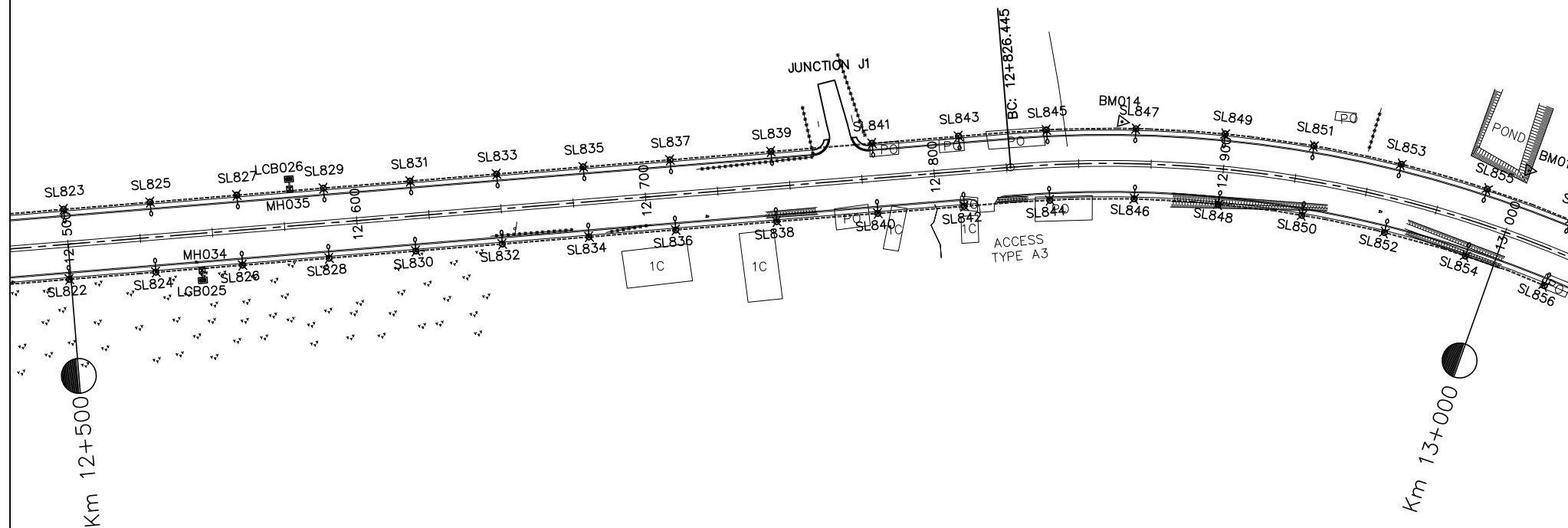
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



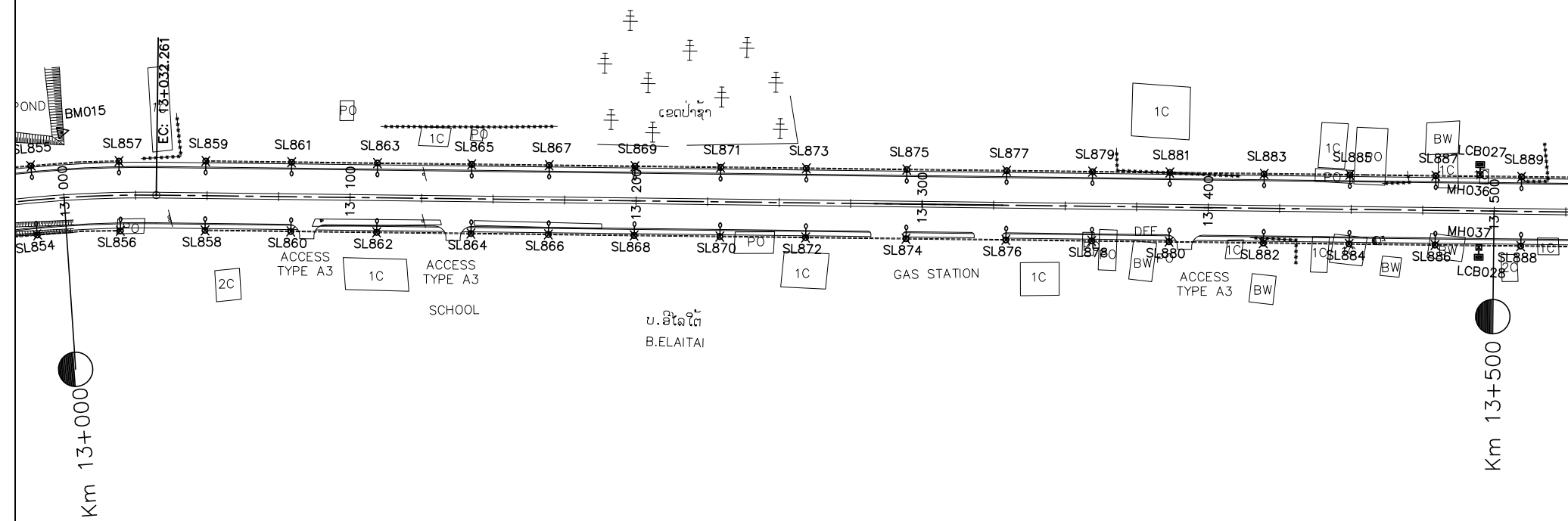
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 12+000 - Km 13+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-013
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

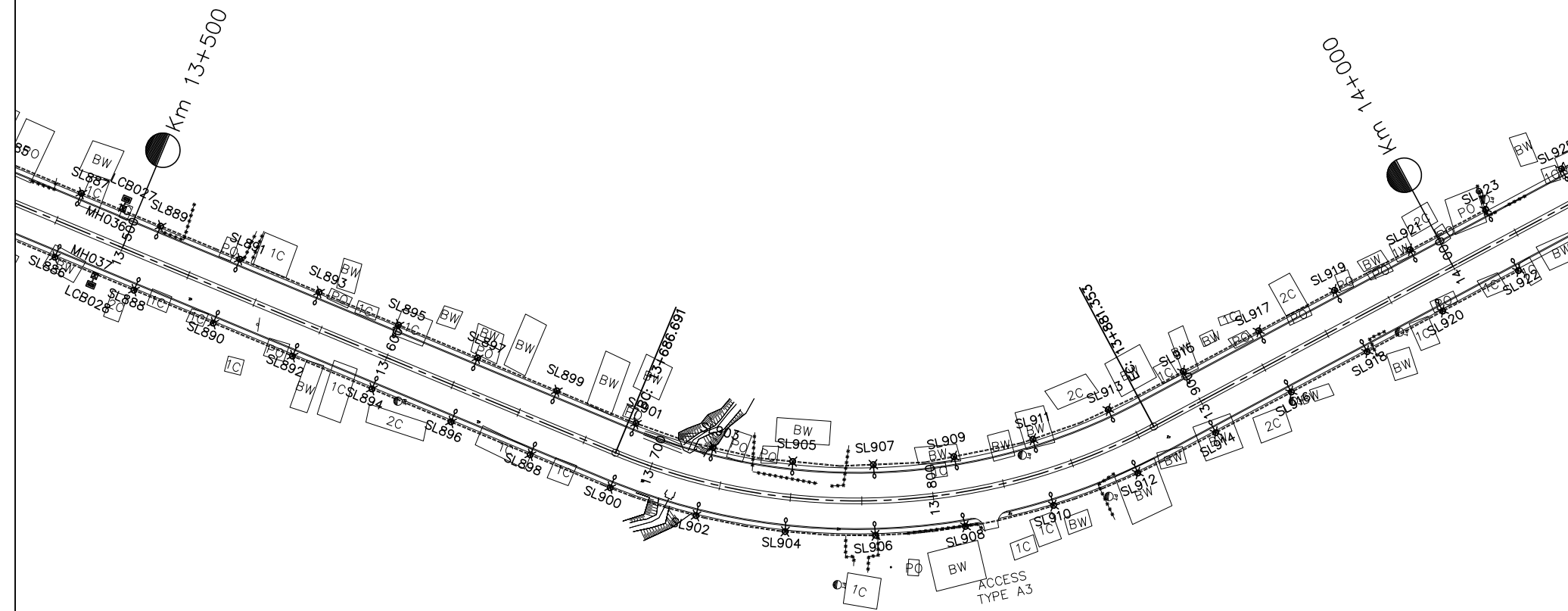
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



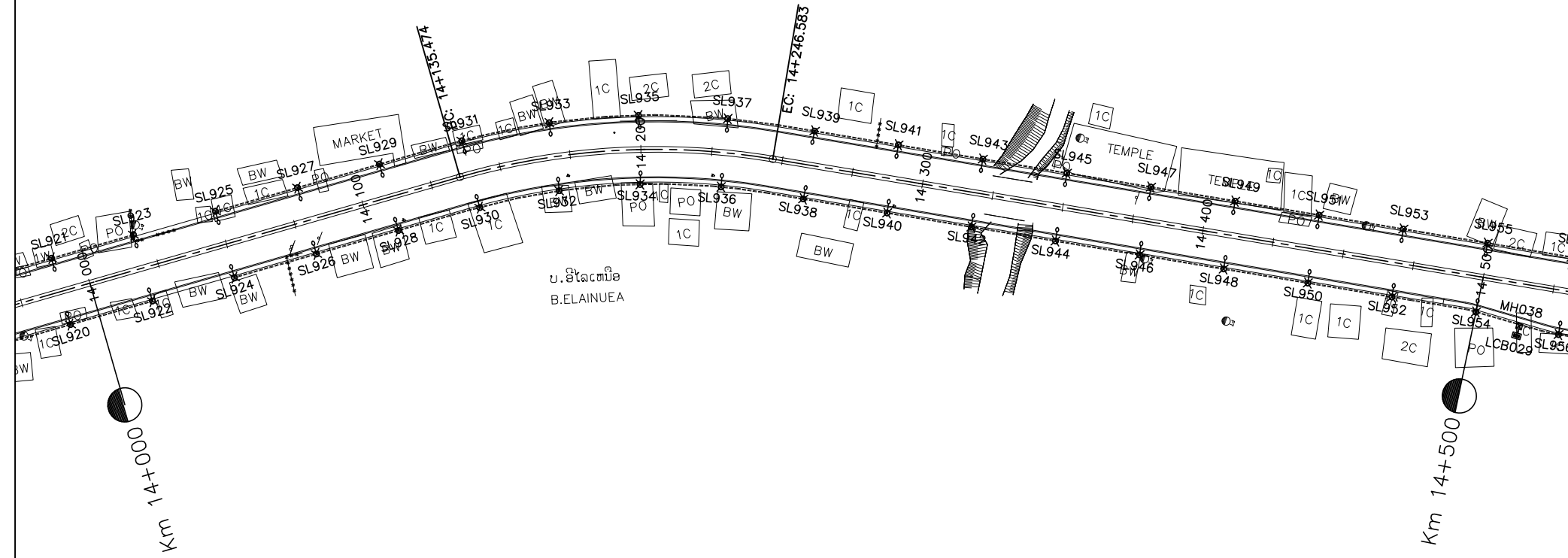
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 13+000 - Km 14+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-014
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

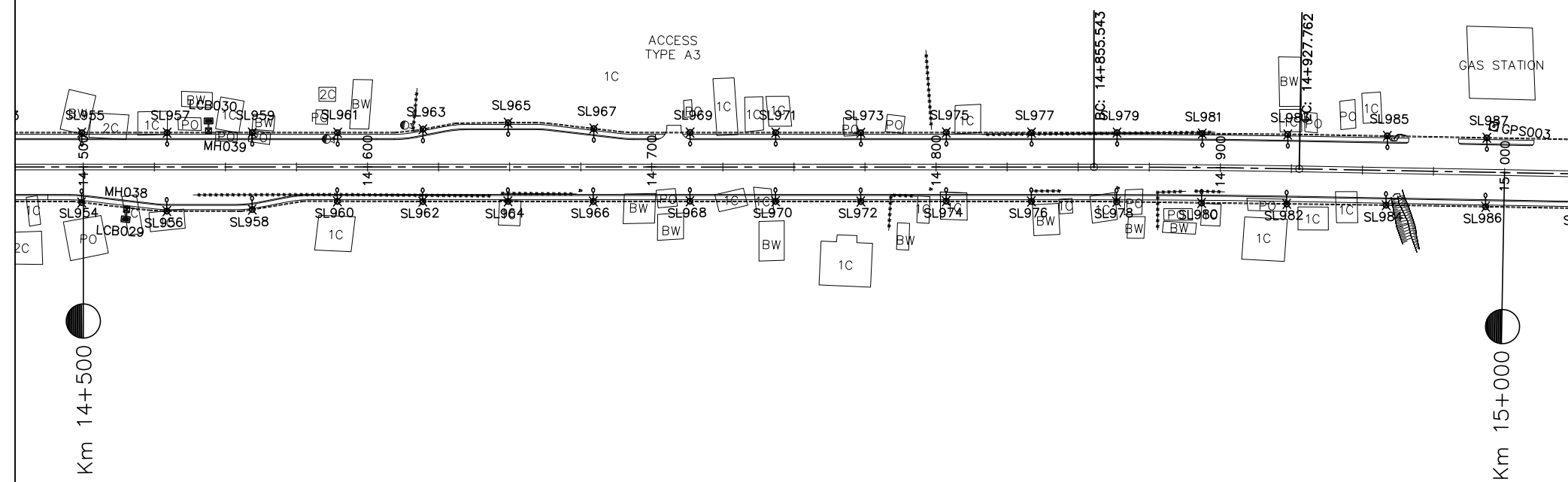
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



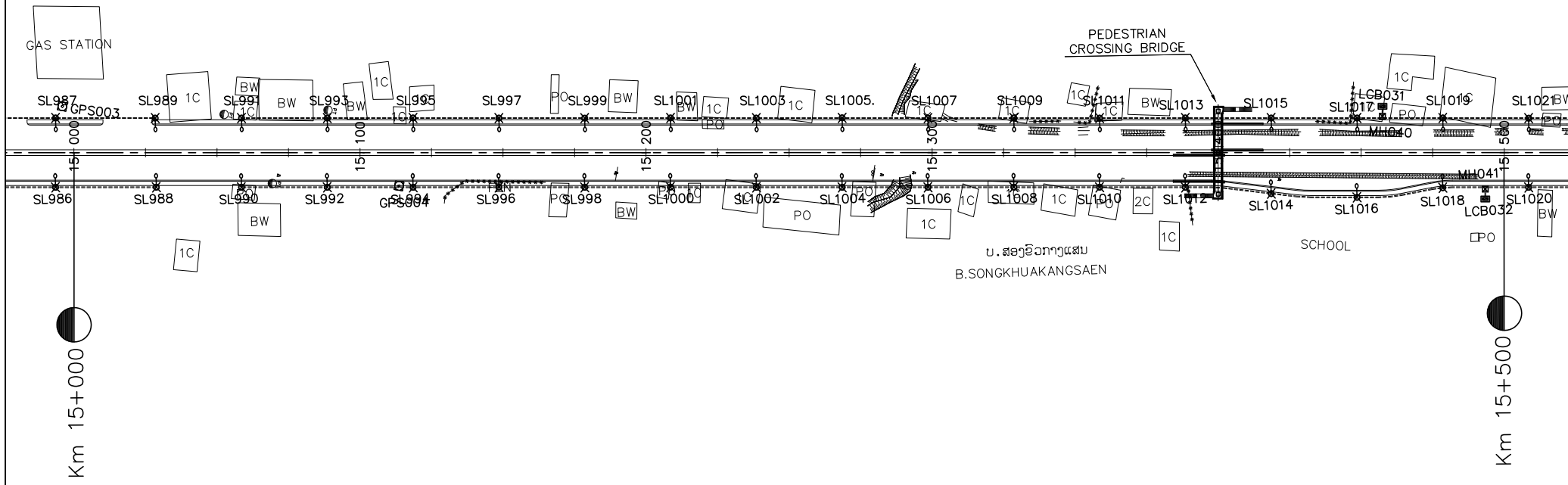
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 14+000 - Km 15+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-015
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

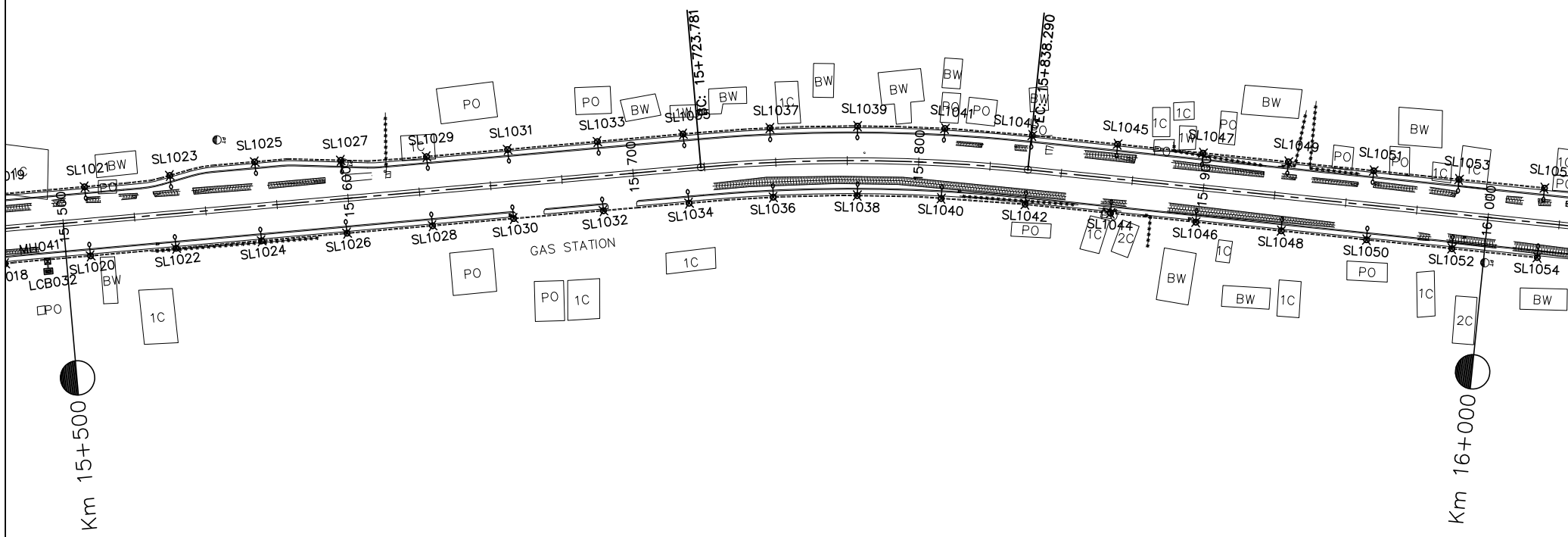
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE

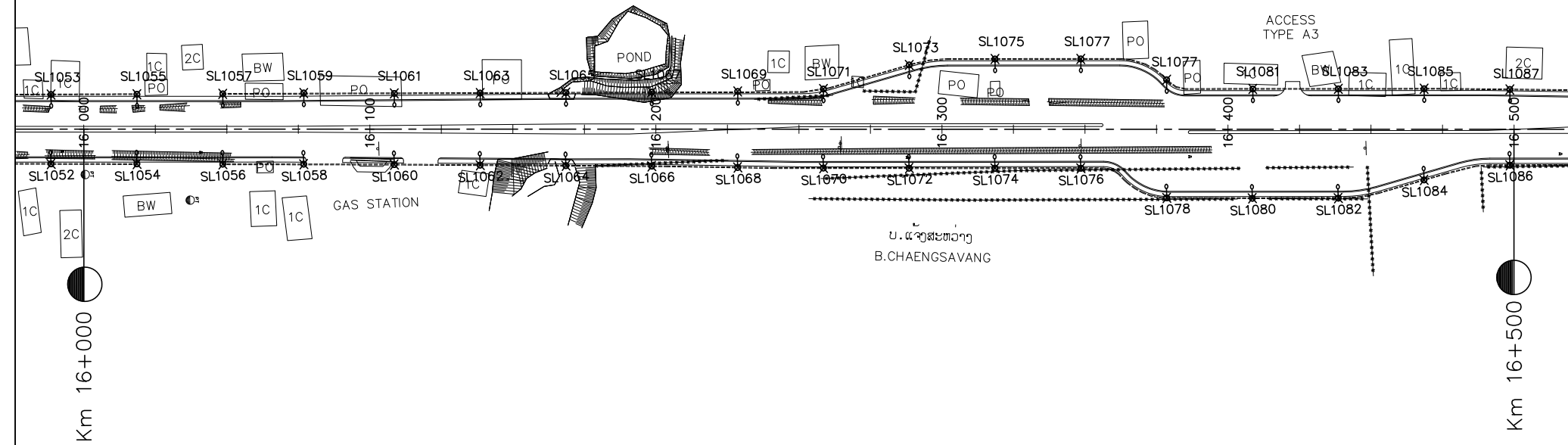


ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKETH JUNCTION - BAN SONGPEUAY  
  
ELECTRIC PLAN  
Km 15+000 - Km 16+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-016
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

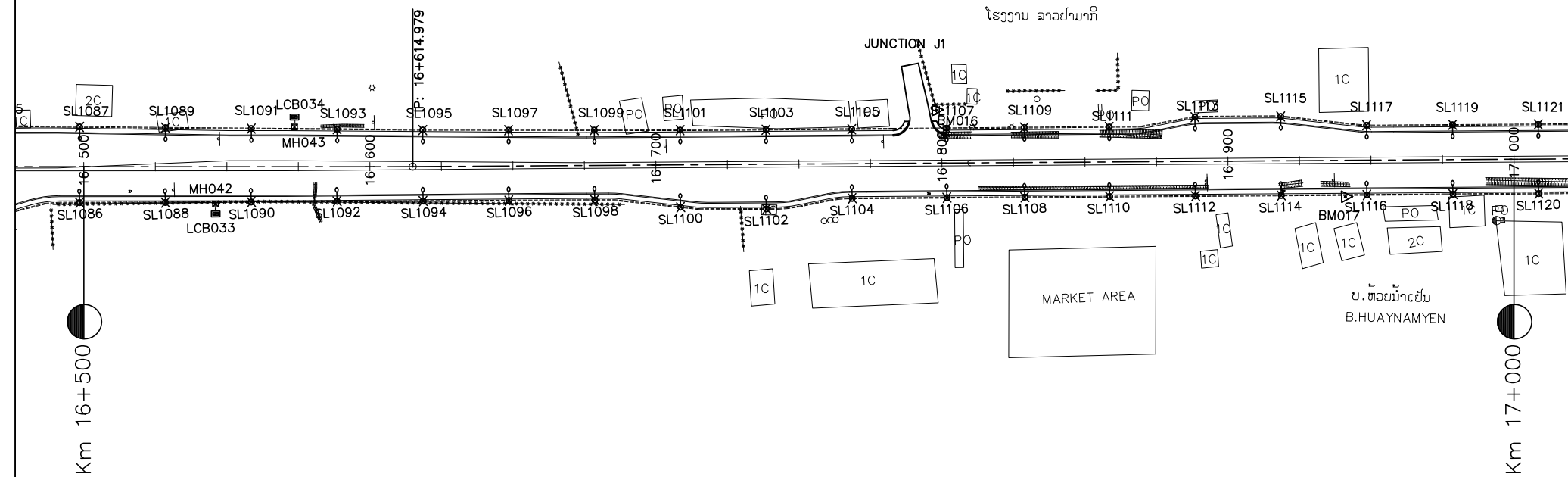
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- = = :PVC PIPE



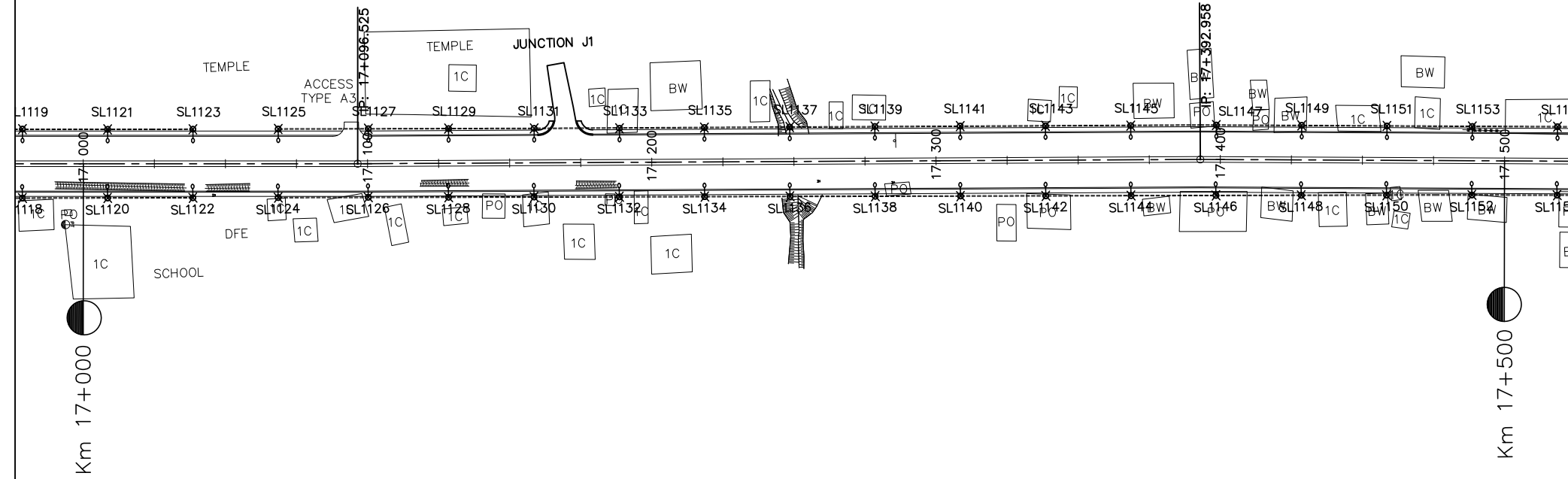
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 16+000 - Km 17+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-017
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

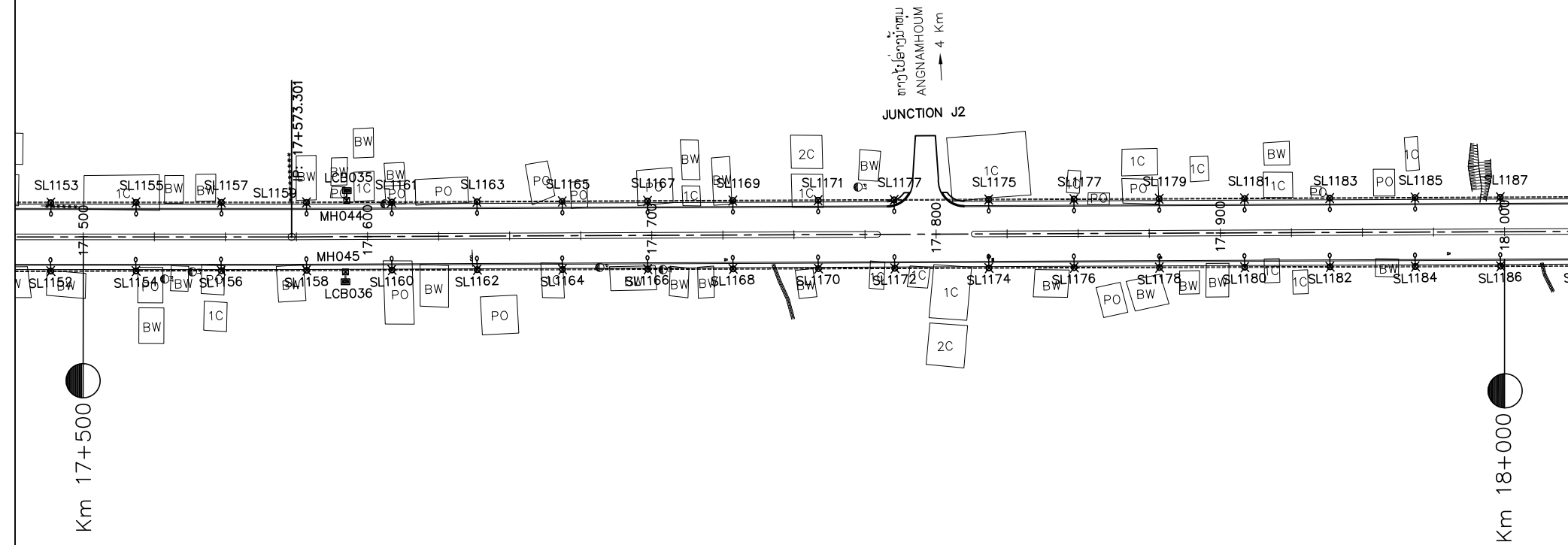
PLAN







NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

-  LCB001,LCB002..... :LOAD CONTROL BOX
-  MH001,MH002..... :MANHOLE
-  SL001,SL002..... :LAMP No.
-  :PVC PIPE



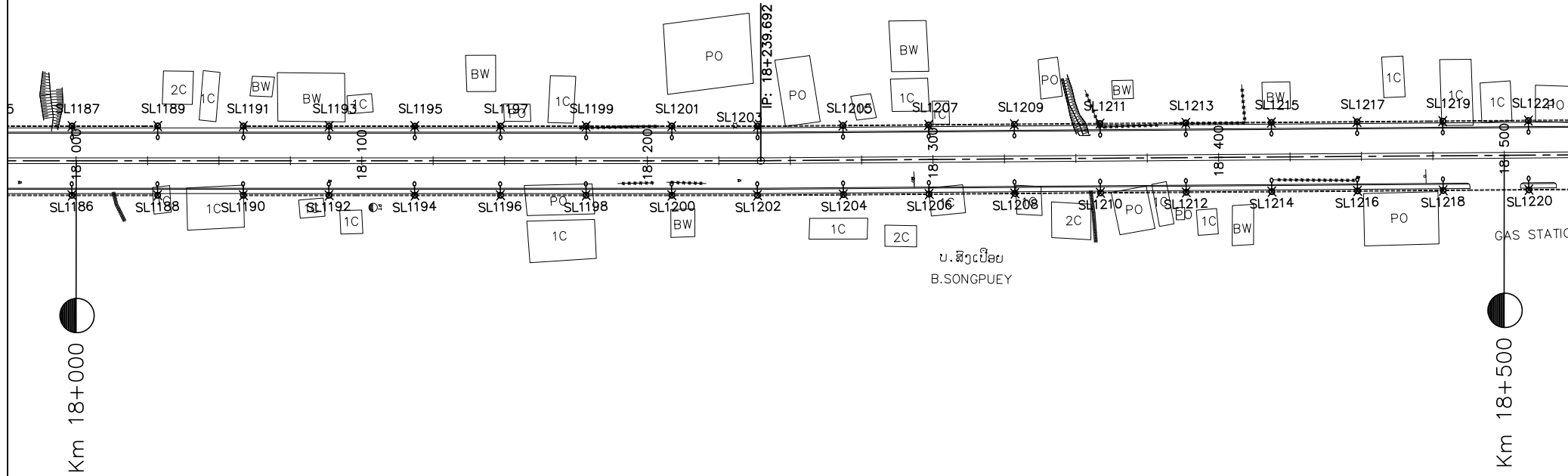
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 17+000 - Km 18+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-018
			APPROVED	Mr.Vandy VORASACK		SCALE: 1:2000

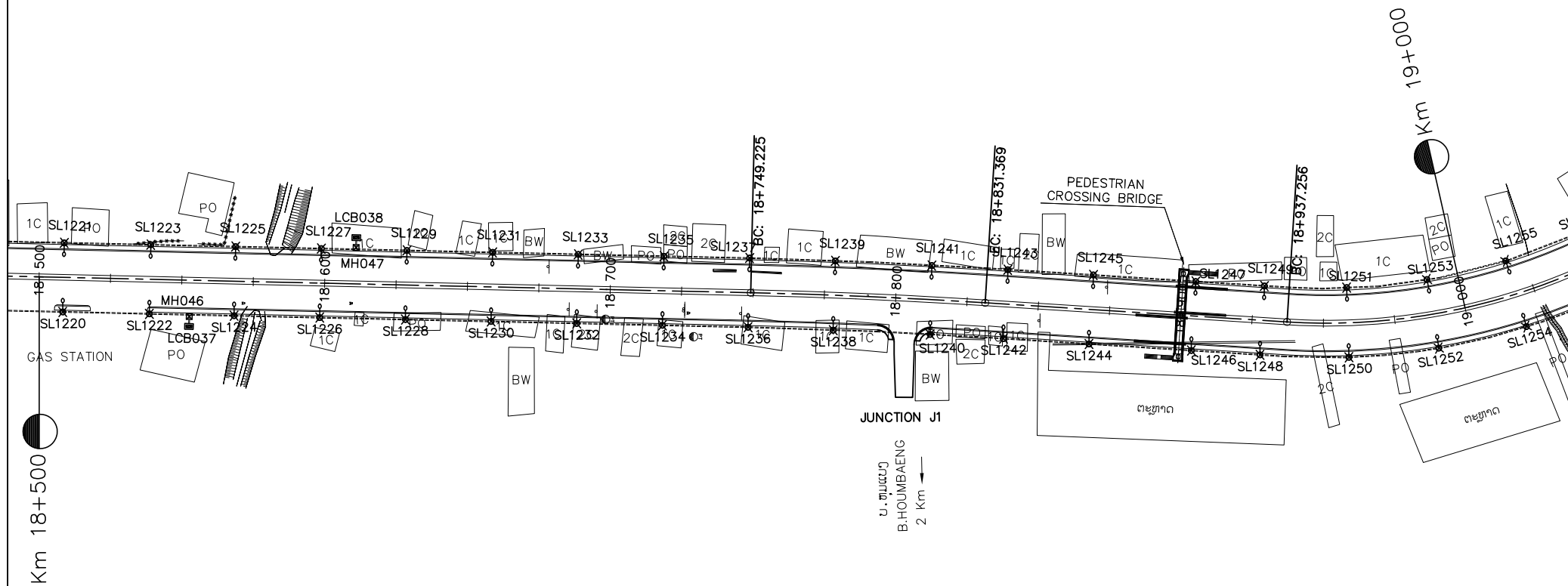
PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUNG BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN



LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE



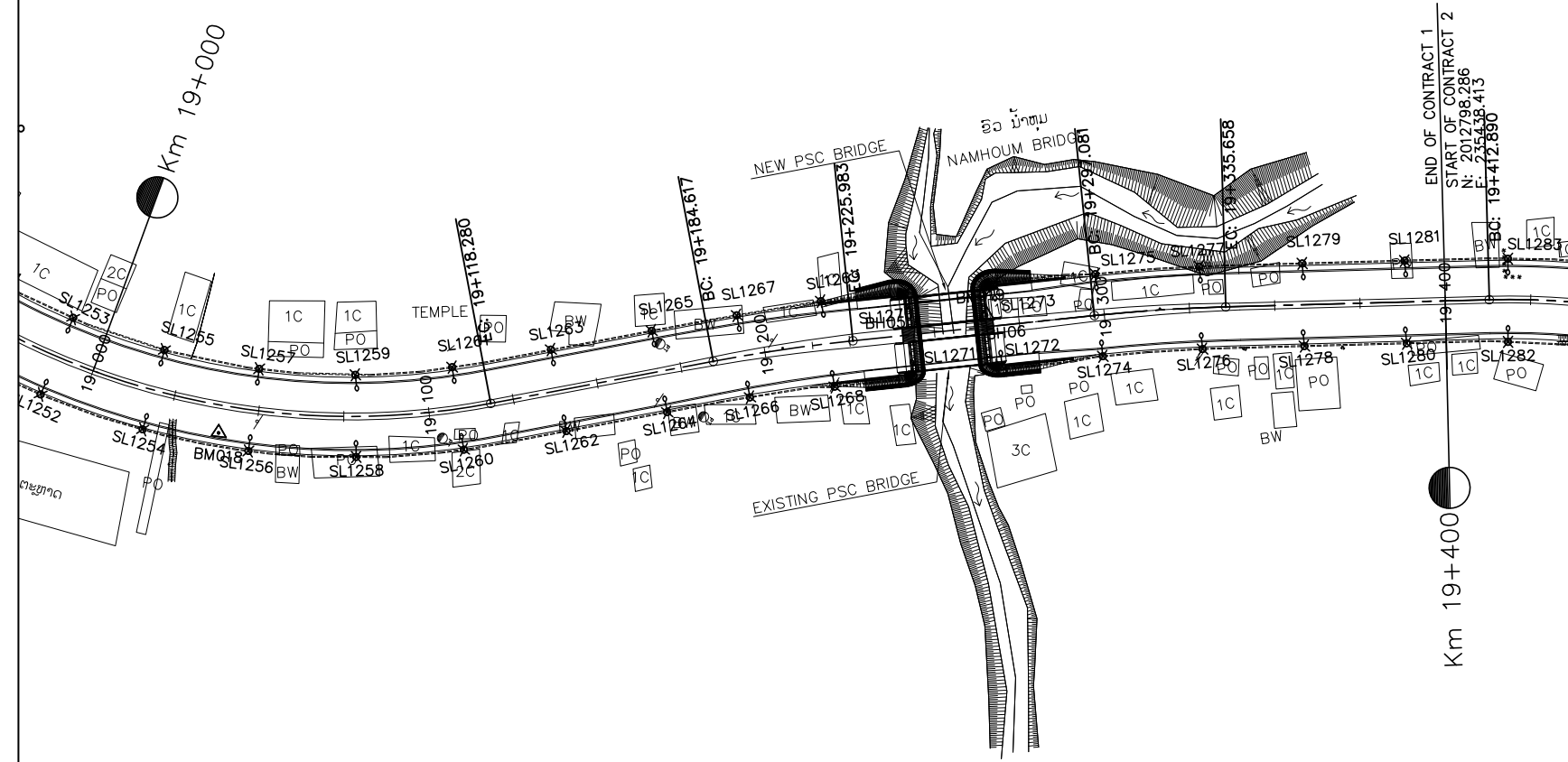
ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY

ELECTRIC PLAN  
Km 18+000 - Km 19+000

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHABMIXAY		DRW No. EPL-019
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000

PLAN



NOTES :

- 1). DETAILED FOR LAMP POST, CONCRETE FOUNDATION, PULL THROUGH BOX(MANHOLE) AND MATERIAL SPECIFICATION, SEE STANDARD DRAWINGS
- 2). AT THE CROSS-ROADS OR AT THE OTHER POINTS WHERE THE PIPES NEED TO BE LAID UNDERGROUND CROSS THE ROAD OR NEED TO MAKE THE MANHOLES DURING THE ROAD CONSTRUCTION; ALL OF THESE CONSTRUCTION MUST BE FOLLOWED THE MODEL ATTACHED HEREWITH.

PLAN

LEGEND:

- LCB001,LCB002..... :LOAD CONTROL BOX
- MH001,MH002..... :MANHOLE
- SL001,SL002..... :LAMP No.
- :PVC PIPE

ລັດວິສາຫະກິດ ວິສະວະກຳ ຄົມມະນາຄົມ  
LAO TRANSPORT ENGINEERING CONSULTANT

NR 13N IMPROVEMENT AND MAINTENANCE PROJECT  
CONTRACT 1 : SIKEUTH JUNCTION - BAN SONGPEUAY  
  
ELECTRIC PLAN  
Km 19+000 - Km19+400

REV.	DATE	DESCRIPTION	APPROVED	NAME	SIGNATURE	LTEC CODE: SD-262-17
			DESIGNED	Mr.Souksavanh SYPHAKHAM		DATE: April, 2018
			CHECKED	Mr.Khamphone SORPHAMIXAY		DRW No. EPL-020
			APPROVED	Mr.Vandy VORASACK		SCALE: 1: 2000