

INTERSECTION K1-4

ACW-A
W1=6.00
W2=4.00
L=7.00

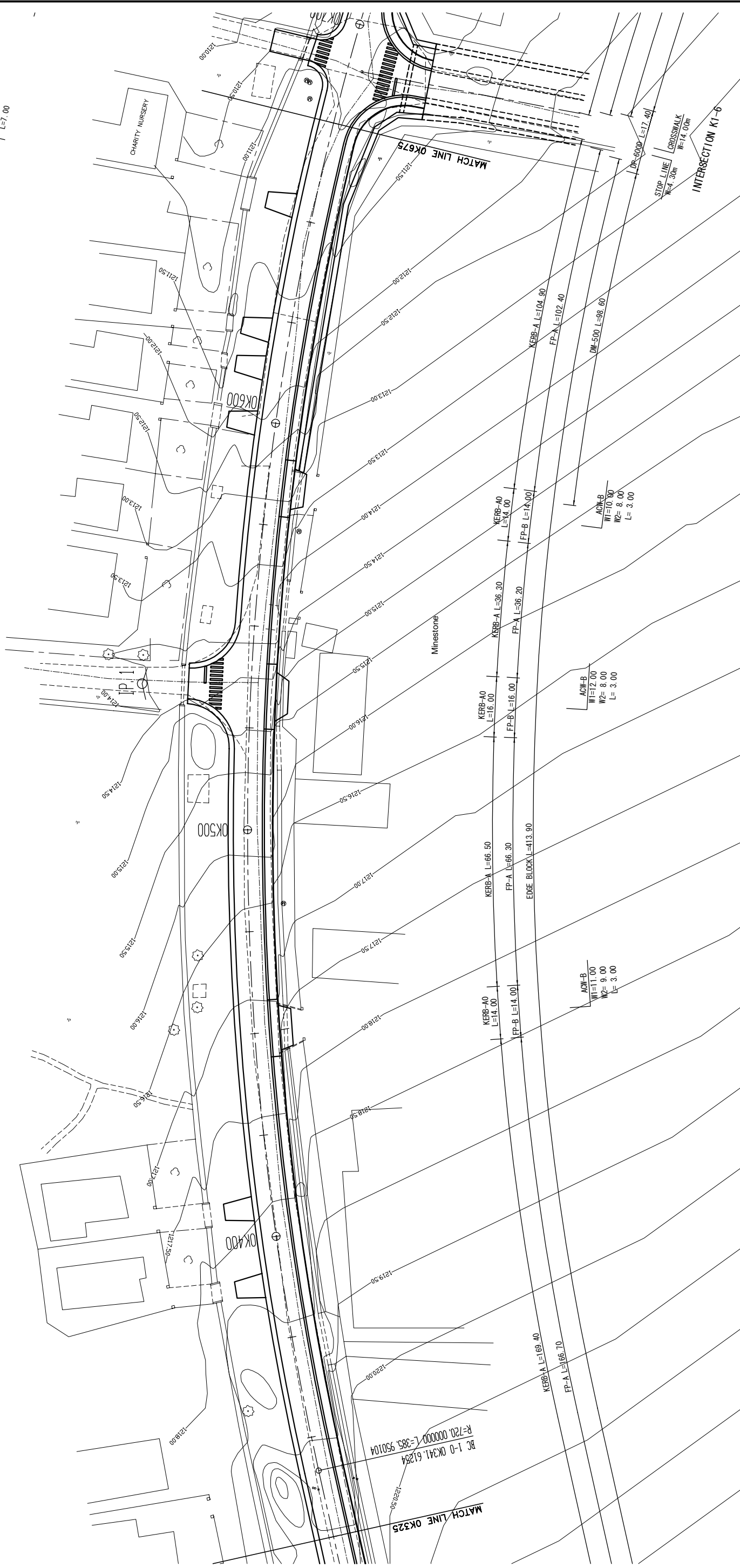
ACW-A
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W2=4.00
L=7.00

CROSSWALK STOP LINE
W=4.10m

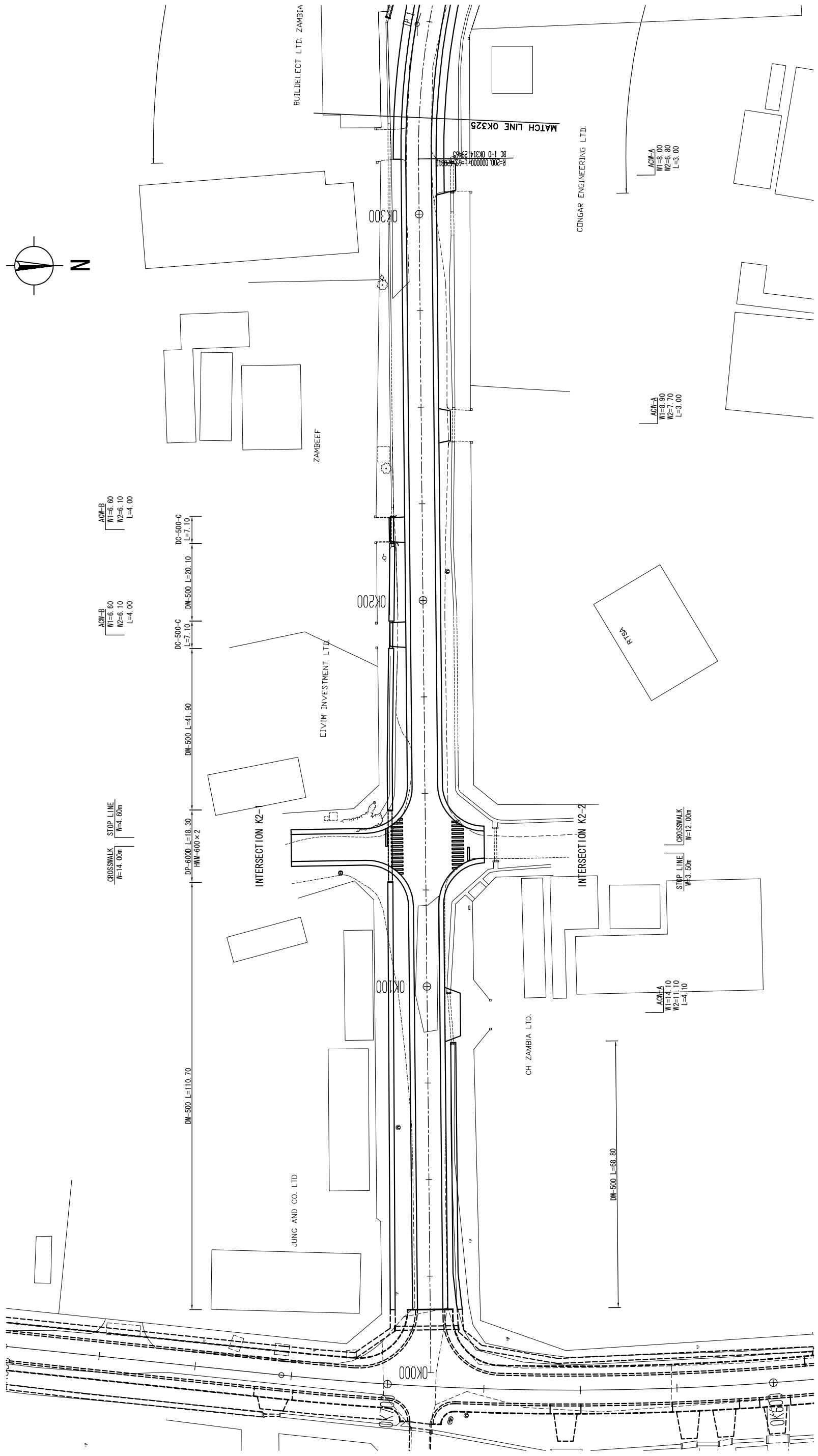
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W2=4.00
L=7.00

ACW-A
W1=6.00
W2=4.00
L=7.00

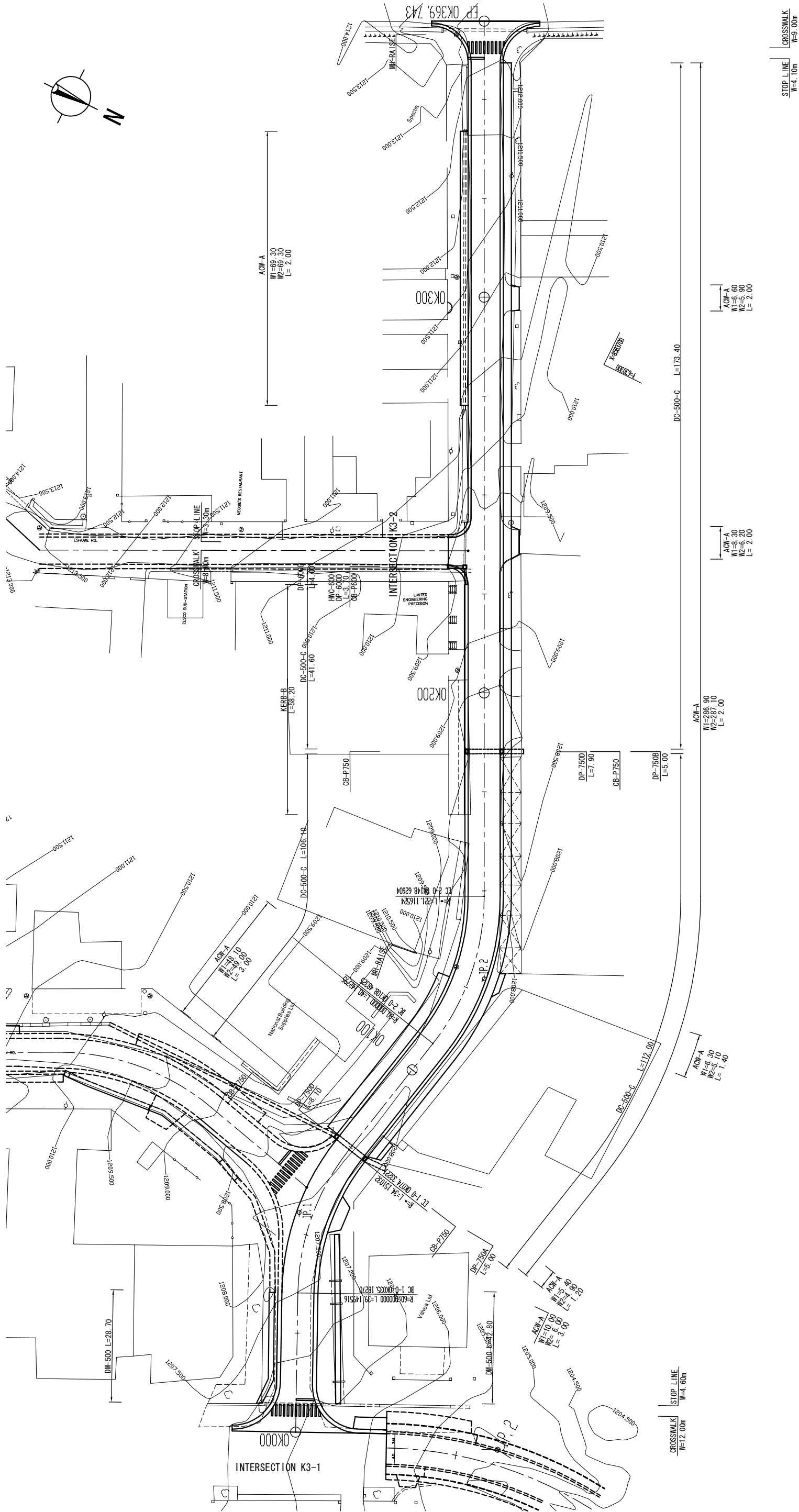
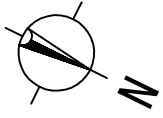
ACW-A
W1=6.00
W2=4.00
L=7.00



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
				K1: DR. AGGREY AVENUE(2/3)			DATE	PL-39	



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-41
					DATE		SUBMITTED		



STOP LINE
W=4.10m

CROSSWALK
W=9.00m

ACW-A
W1=6.60
W2=5.90
L=2.00

ACW-A
W1=8.30
W2=6.20
L=2.00

ACW-A
W1=265.90
W2=287.10
L=2.00

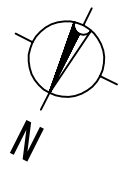
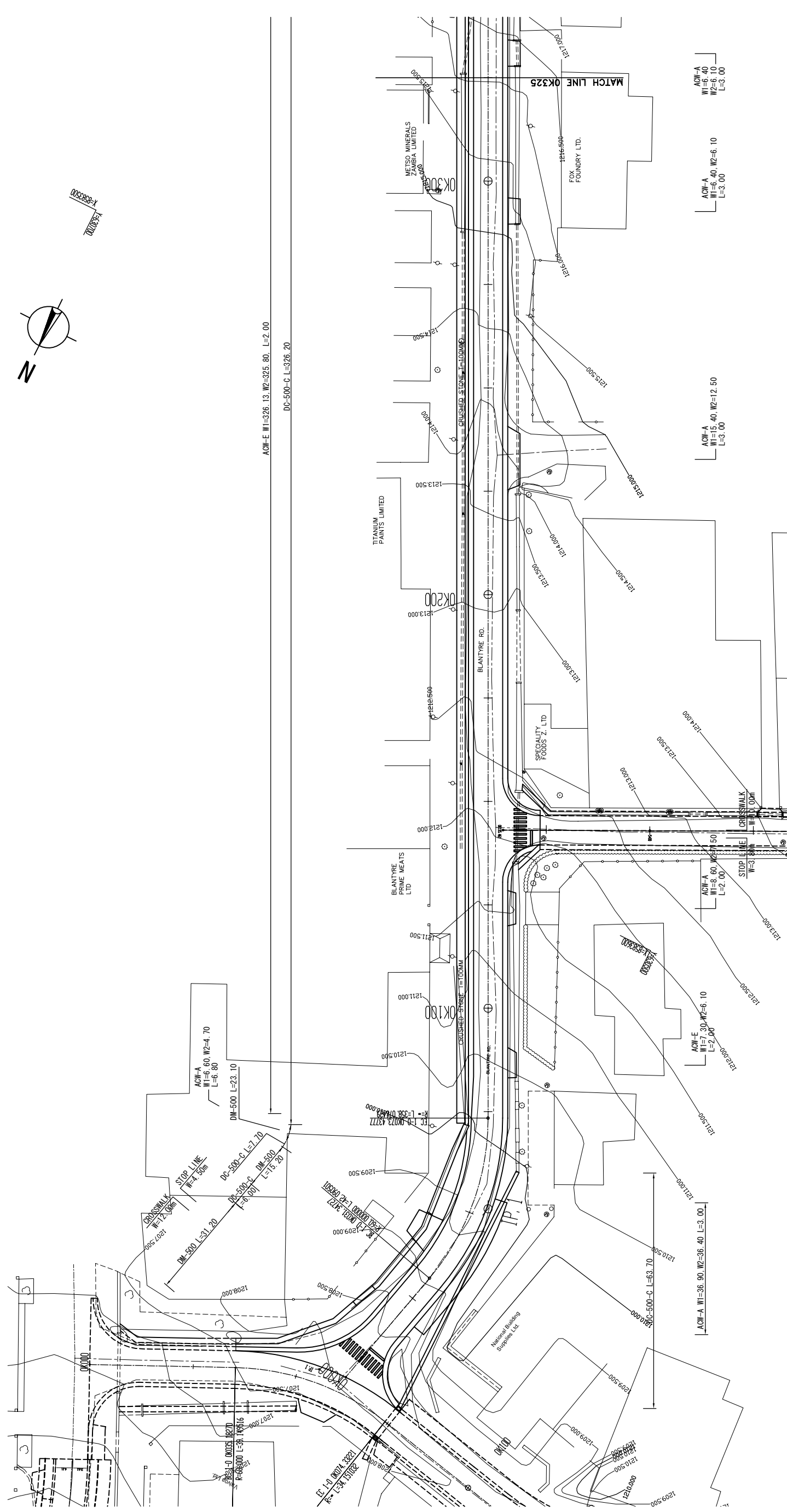
ACW-A
W1=6.30
W2=5.10
L=1.40

CROSSWALK
W=12.00m

STOP LINE
W=4.60m

DC-500-C L=173.40

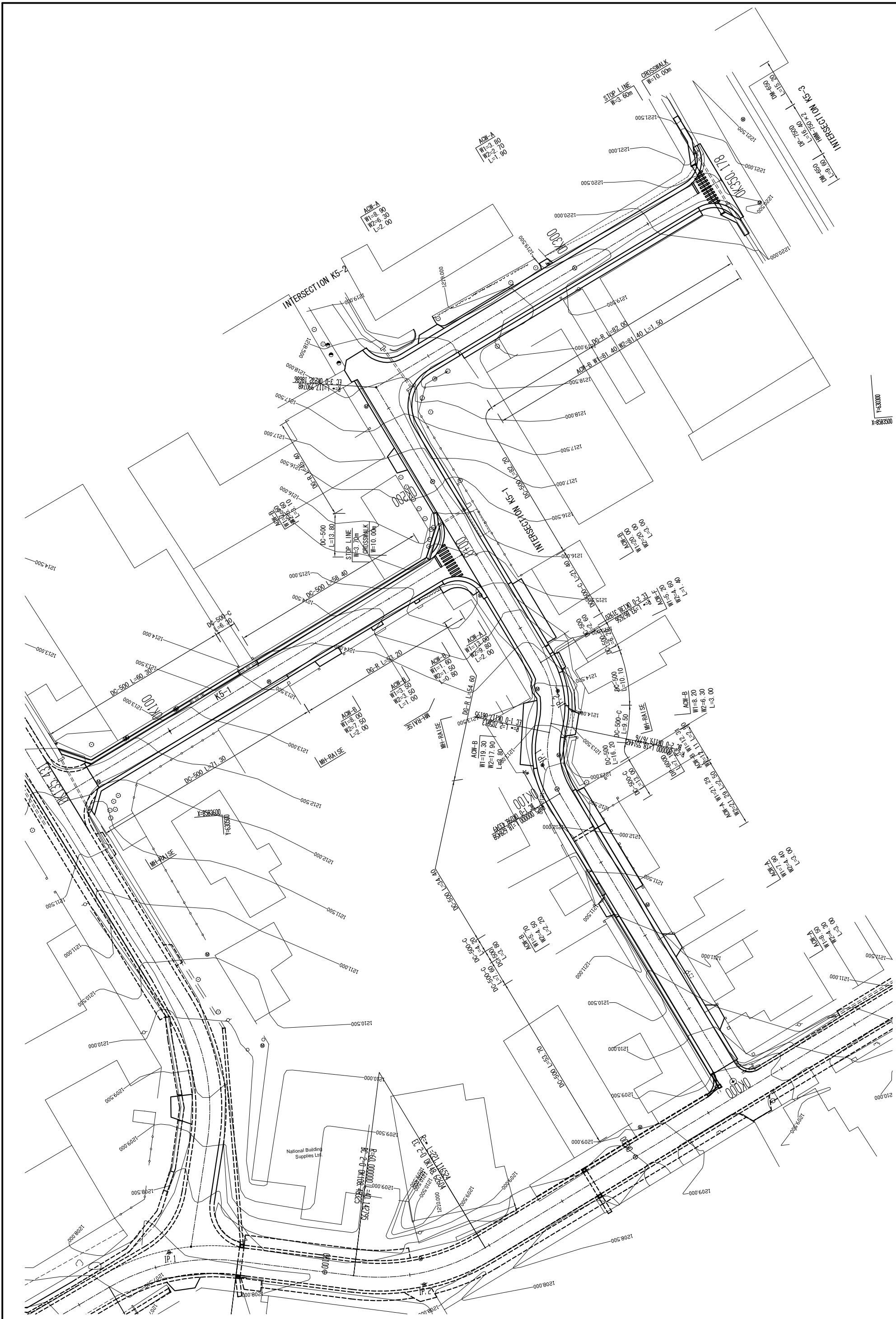
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	K3: ZIMBA ROAD	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
						DATE	SUBMITTED		PL-43
							KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS		



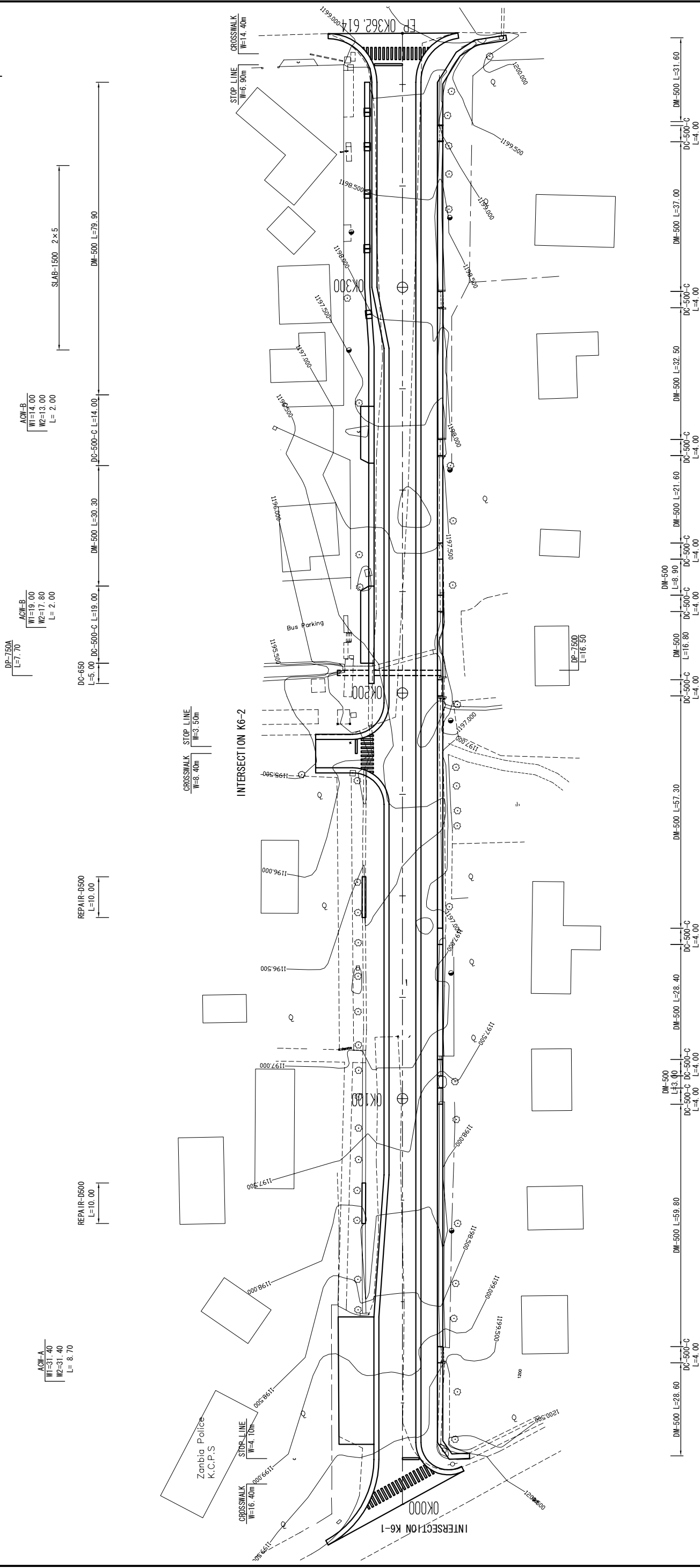
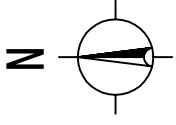
K-530/20
K-530/20

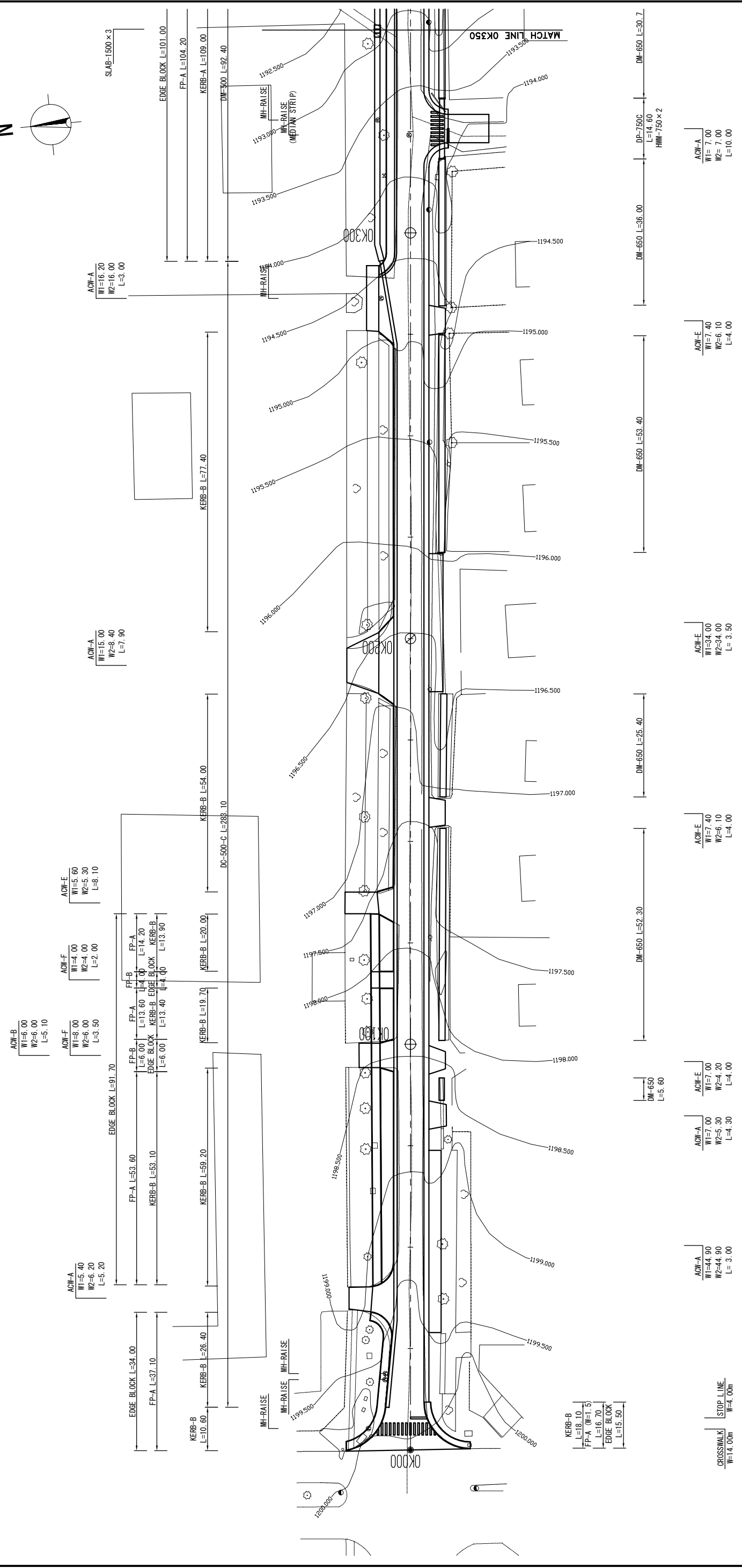
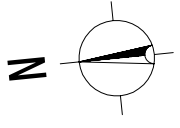
ACW-A W1=26.13, W2=25.80, L=2.00
DC-500-C L=326.20

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
				S=1:500			DATE	SUBMITTED	PL-44



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
				DATE	SUBMITTED		PL-46
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA		K5: ESHOWE ROAD		KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS			





STOP LINE CROSSWALK
W=3.50m
W=8.00m

ACW-E
W1=7.40
W2=6.10
L=4.00

ACW-E
W1=34.00
W2=34.00
L=3.50

ACW-E
W1=7.40
W2=6.10
L=4.00

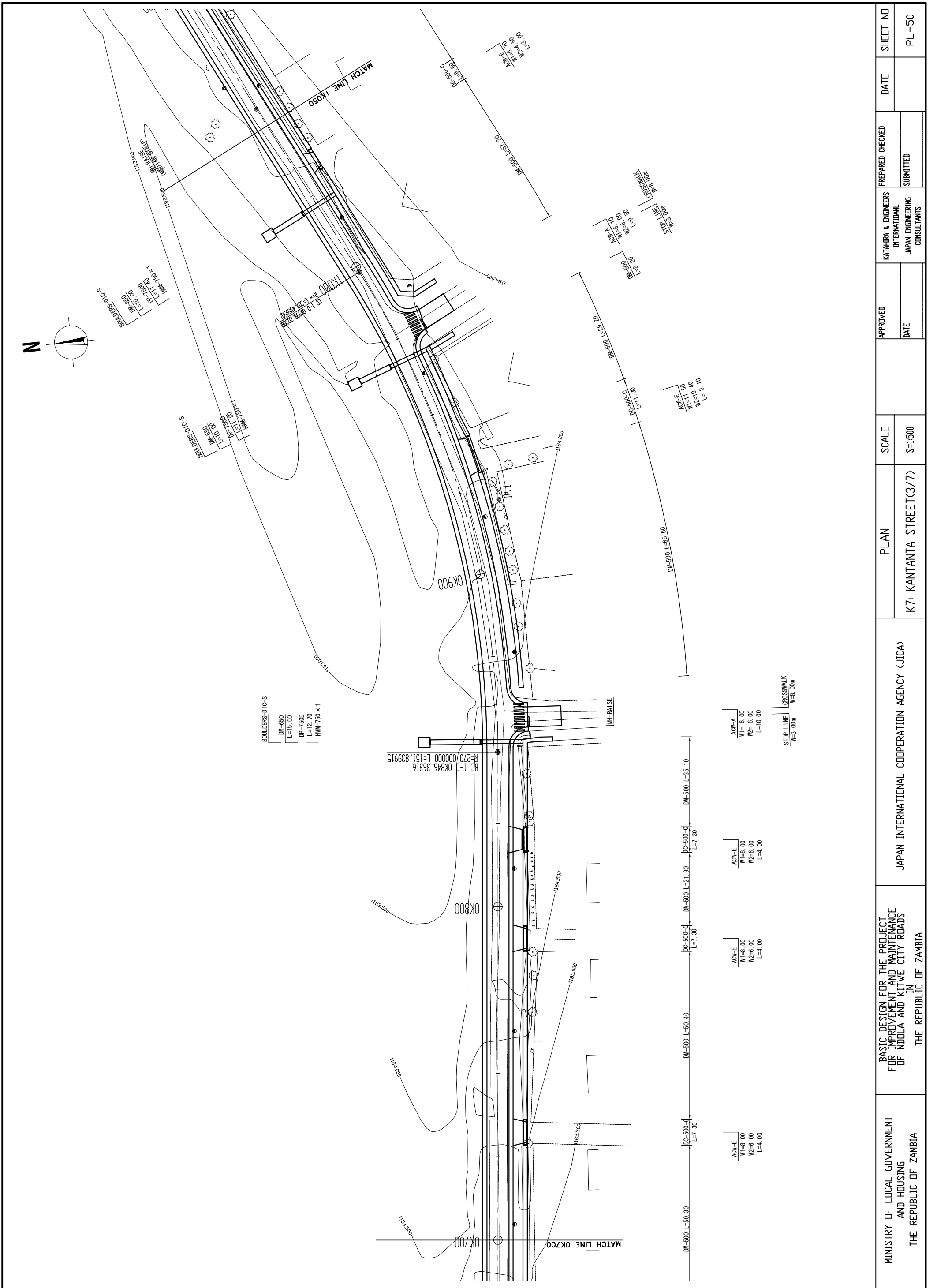
ACW-A
W1=7.00
W2=5.30
L=4.30

ACW-A
W1=44.90
W2=44.90
L=3.00

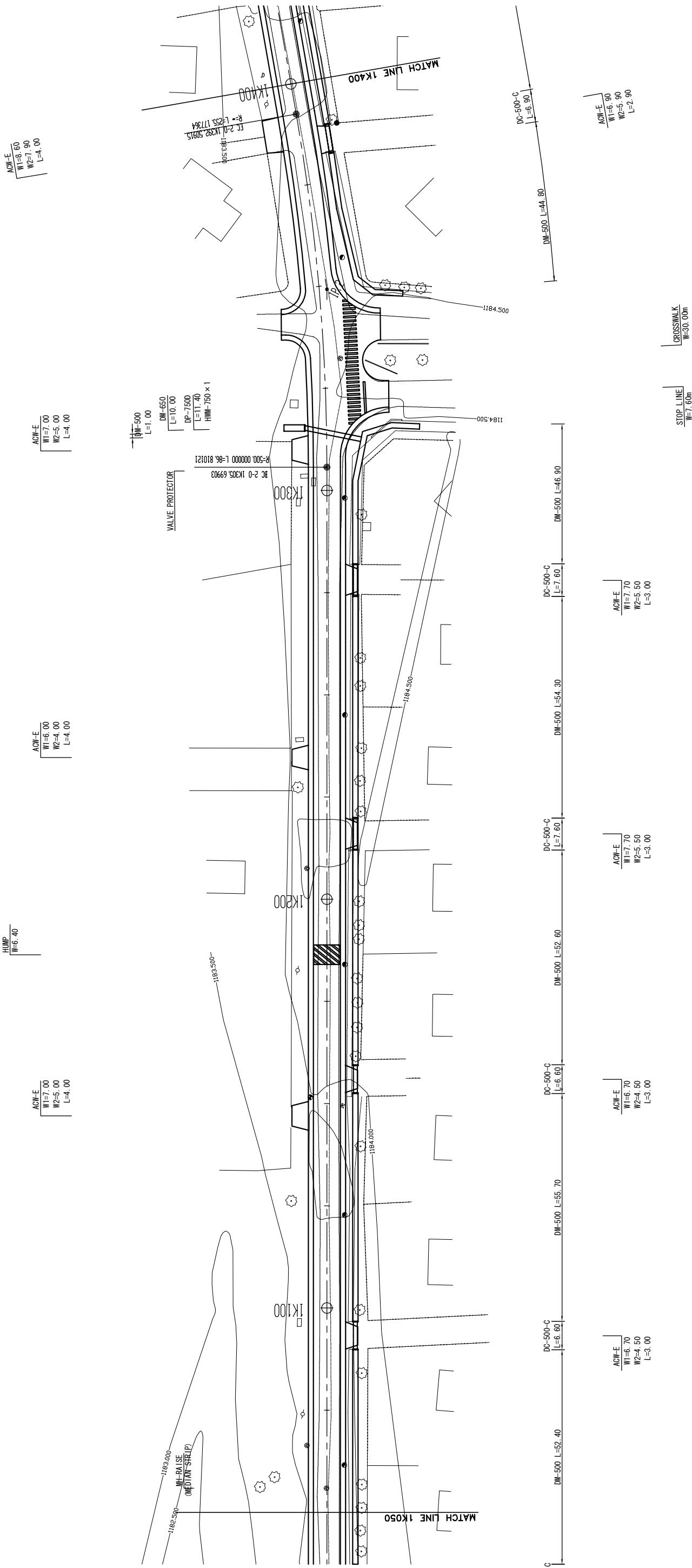
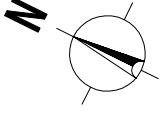
CROSSWALK STOP LINE
W=4.00m

KERB-B
L=8.10
FP-A (W1:5)
L=16.70
EDGE BLOCK
L=15.50

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
				S=1:500			DATE	SUBMITTED	PL-48



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	DATE	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	SHEET NO
								DATE	



ACW-E
W1=5.60
W2=7.90
L=4.00

ACW-E
W1=7.00
W2=5.00
L=4.00

ACW-E
W1=6.00
W2=4.00
L=4.00

ACW-E
W1=7.00
W2=5.00
L=4.00

HUMP
W=6.40

DM-500 L=1.00
DM-650 L=10.00
DP-7500 L=11.40
HMM-750 x 1

PC 2-0 1K035.69903
R-500 0.00000 L-86.810121

ACW-E
W1=6.70
W2=4.50
L=3.00

ACW-E
W1=6.70
W2=4.50
L=3.00

ACW-E
W1=7.70
W2=5.50
L=3.00

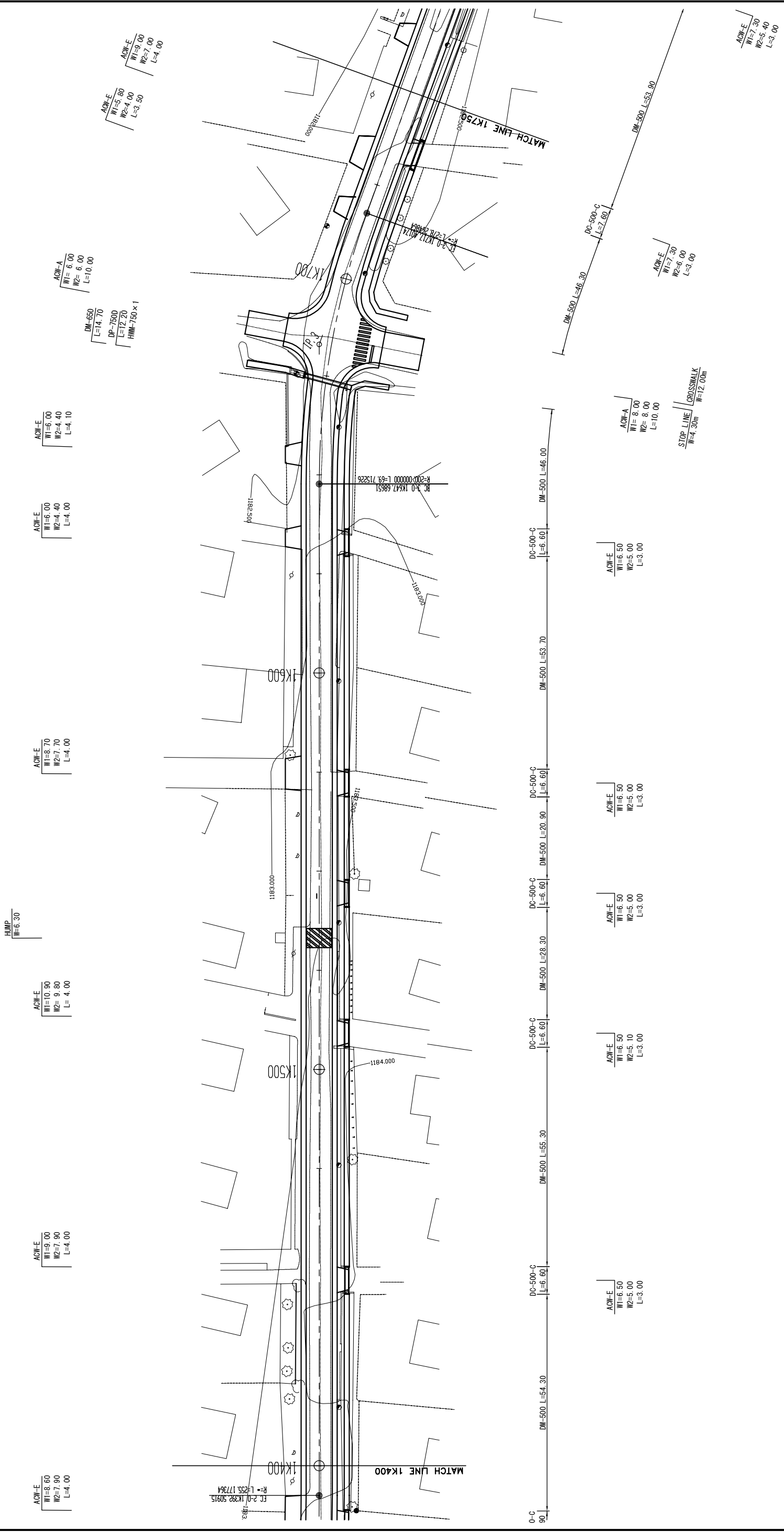
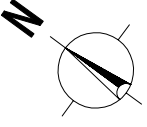
ACW-E
W1=7.70
W2=5.50
L=3.00

STOP LINE
W=7.60m

CROSSWALK
W=30.00m

ACW-E
W1=6.90
W2=5.90
L=2.90

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-51
					DATE		SUBMITTED		



ACW-E
W1=8.00
W2=7.90
L=4.00

ACW-E
W1=9.00
W2=7.90
L=4.00

ACW-E
W1=10.90
W2= 9.80
L= 4.00

HUMP
W=6.30

ACW-E
W1=8.70
W2=7.70
L=4.00

ACW-E
W1=6.00
W2=4.40
L=4.00

ACW-E
W1=6.00
W2=4.40
L=4.10

DM-500
L=14.70
DP-7500
L=12.70
HMM-750 x 1

ACW-E
W1=9.00
W2=7.00
L=4.00

ACW-E
W1=8.80
W2=4.00
L=3.50

O-C
90

DM-500 L=54.30
DC-500-C
L=6.60

DM-500 L=55.30
DC-500-C
L=6.60

DM-500 L=28.30
DC-500-C
L=6.60

DM-500 L=20.90
DC-500-C
L=6.60

DM-500 L=53.70
DC-500-C
L=6.60

DM-500 L=46.30
DC-500-C
L=7.60

DM-500 L=53.90
DC-500-C
L=7.60

ACW-E
W1=6.50
W2=5.00
L=3.00

ACW-E
W1=6.50
W2=5.00
L=3.00

ACW-E
W1=6.50
W2=5.00
L=3.00

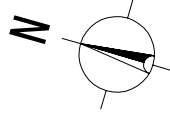
ACW-E
W1=6.50
W2=5.00
L=3.00

ACW-A
W1= 8.00
W2= 8.00
L=10.00

STOP LINE CROSSWALK
W=4.30m
W=12.00m

ACW-E
W1=7.30
W2=5.40
L=3.00

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-52
					DATE		SUBMITTED		



ACW-E
W1=5.00
W2=4.00
L=3.00

ACW-A
W1=6.00
W2=6.00
L=10.00

DM=650
L=13.90
DP=7500
L=13.50
HMM=750 x 1

ACW-E
W1=8.10
W2=6.30
L=4.00

ACW-E
W1=8.40
W2=6.30
L=4.00

ACW-E
W1=5.70
W2=3.90
L=4.00

HUMP
W=6.30

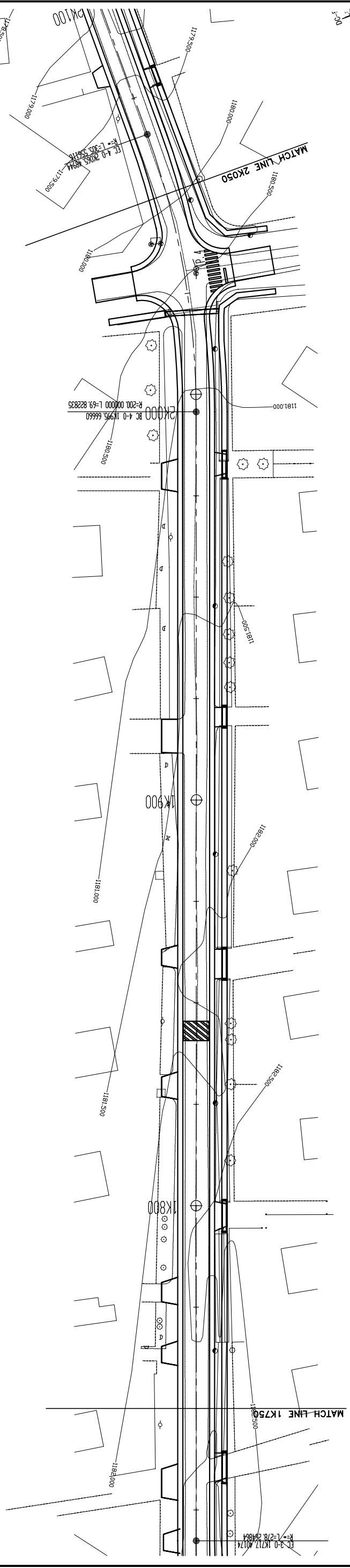
ACW-E
W1=6.80
W2=4.80
L=4.00

ACW-E
W1=6.80
W2=4.80
L=4.00

ACW-E
W1=6.00
W2=4.00
L=4.00

ACW-E
W1=5.00
W2=4.00
L=4.00

ACW-E
W1=5.80
W2=4.00
L=3.50



ACW-A
W1=7.00
W2=7.00
L=10.00

STOP LINE
W=3.00m
CROSSWALK
W=10.00m

ACW-E
W1=5.90
W2=4.70
L=3.00

ACW-E
W1=4.80
W2=4.70
L=3.00

ACW-E
W1=7.30
W2=7.10
L=3.00

ACW-E
W1=7.30
W2=5.40
L=3.00

ACW-E
W1=7.30
W2=6.00
L=3.00

DM-500 L=49.70

DC-500-C L=6.50

DM-500 L=56.00

DC-500-C L=5.20

DM-500 L=54.10

DC-500-C L=7.60

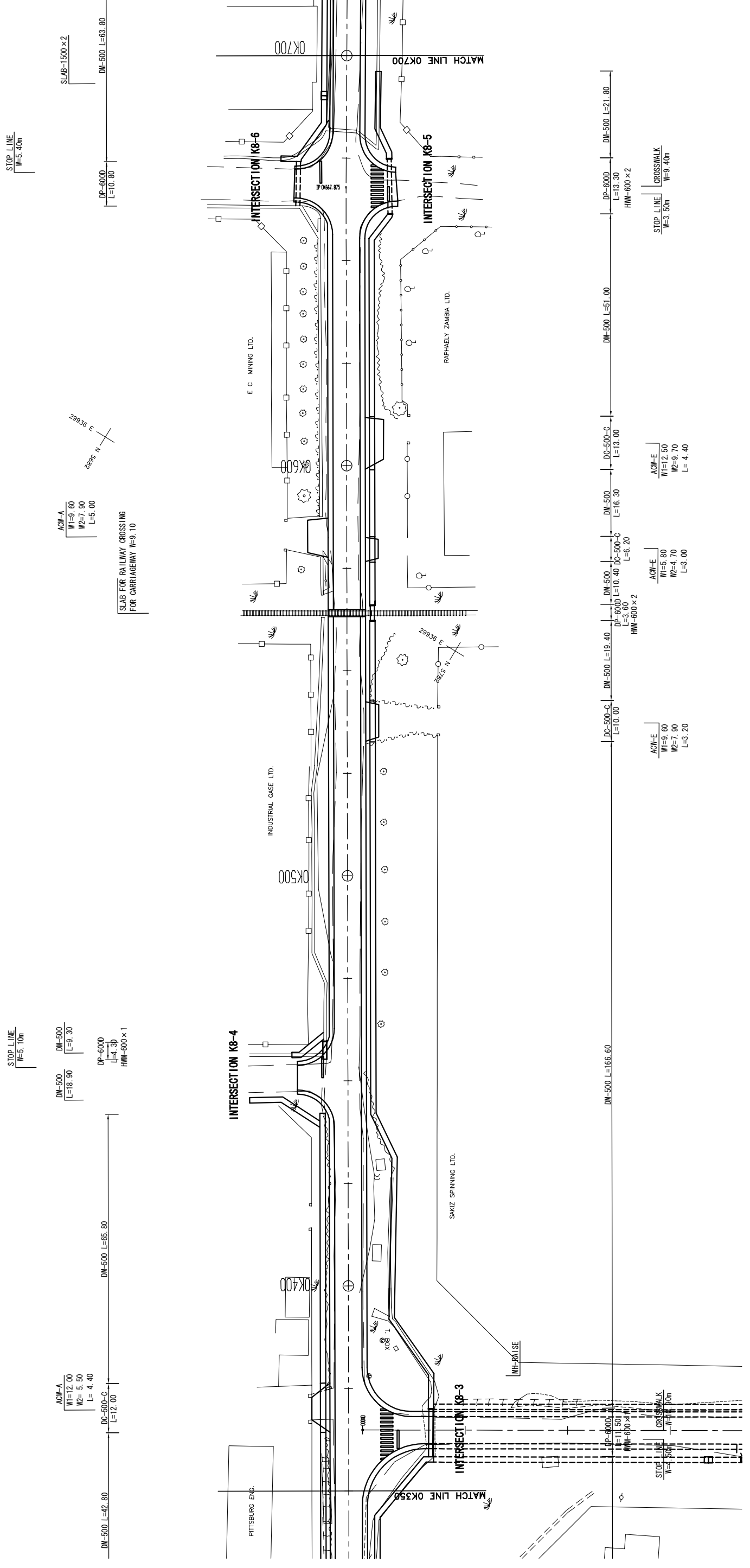
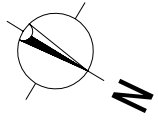
DM-500 L=54.20

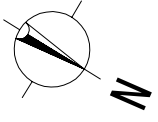
DC-500-C L=7.60

DM-500 L=53.90

DC-500-C L=7.60

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	PREPARED CHECKED	DATE	SHEET NO
				DATE	SUBMITTED		PL-53
BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA		K7: KANTANTA STREET(6/7)		KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS			





STOP LINE
W=3.80m

CROSSWALK
W=8.90m

ACW-E
W1=7.20
W2=5.20
L=3.00

ACW-A
W1=9.60
W2=6.20
L=5.00

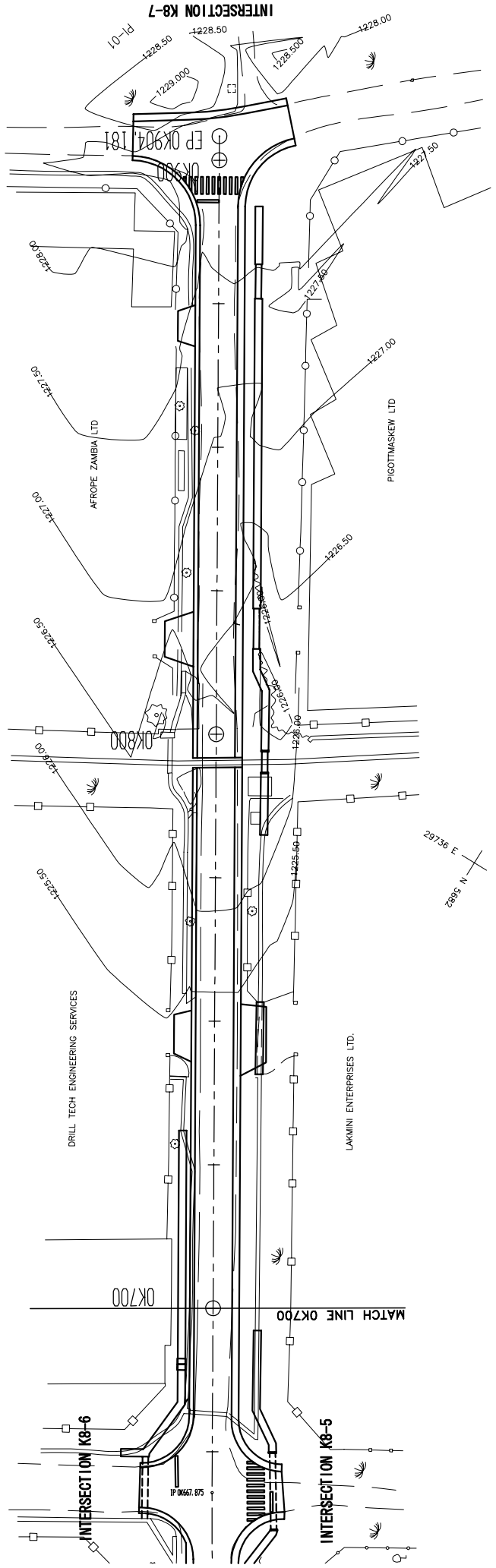
ACW-E
W1=8.90
W2=6.80
L=3.00

ACW-A
W1=8.90
W2=6.80
L=3.00

SLAB-1500 x 2
DM-500 L=63.80

DP-6000
L=10.80

SLAB FOR RAILWAY CROSSING
FOR CARRIAGEWAY W=8.60



DC-500-E
L=6.00

DM-500 L=54.00

DC-500-A
L=7.00

DM-500 L=18.10

DC-500-C
L=12.60

DM-500 L=21.80

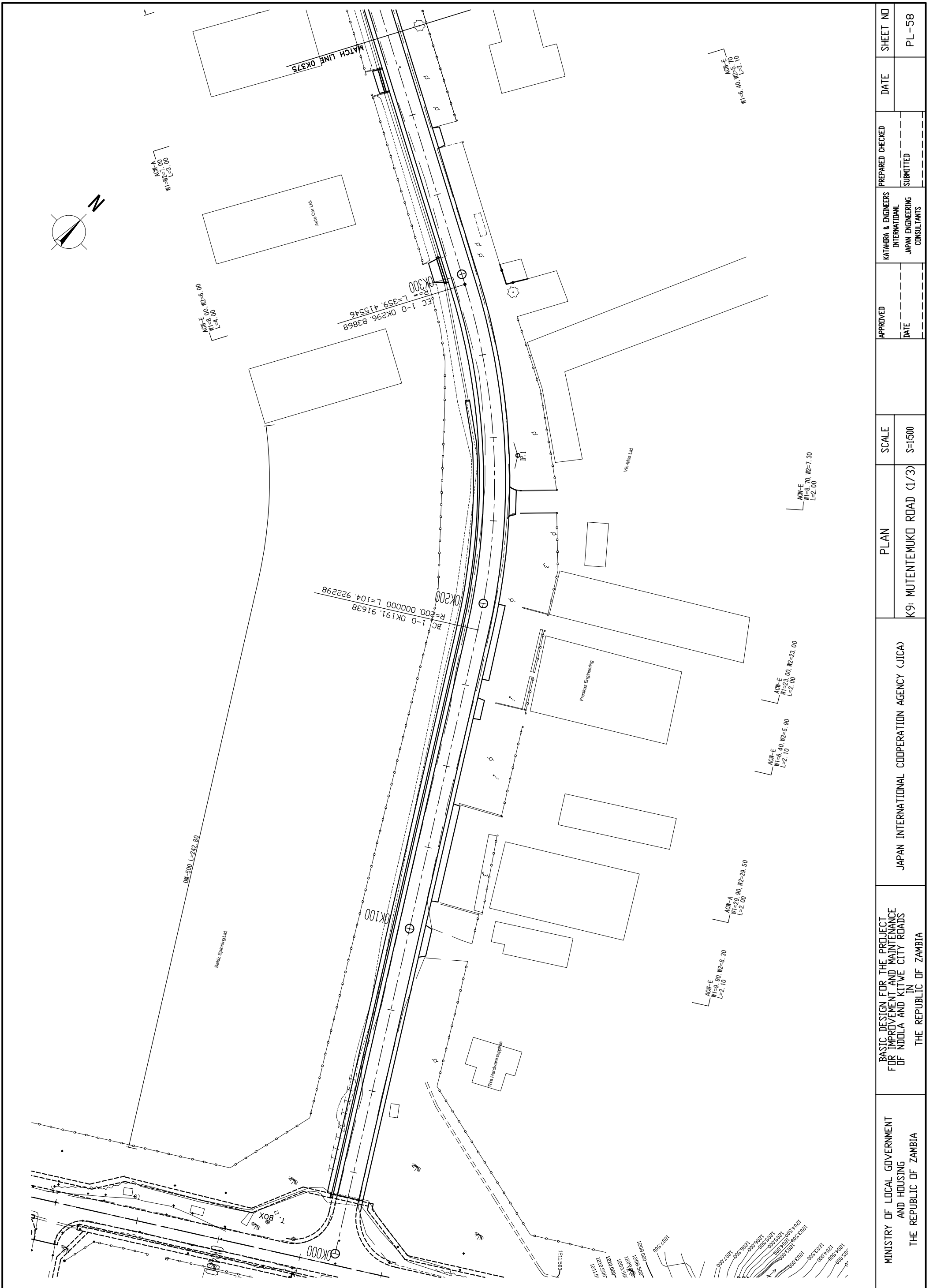
DP-6000
L=13.30

ACW-A
W1=12.50
W2=9.70
L=4.50

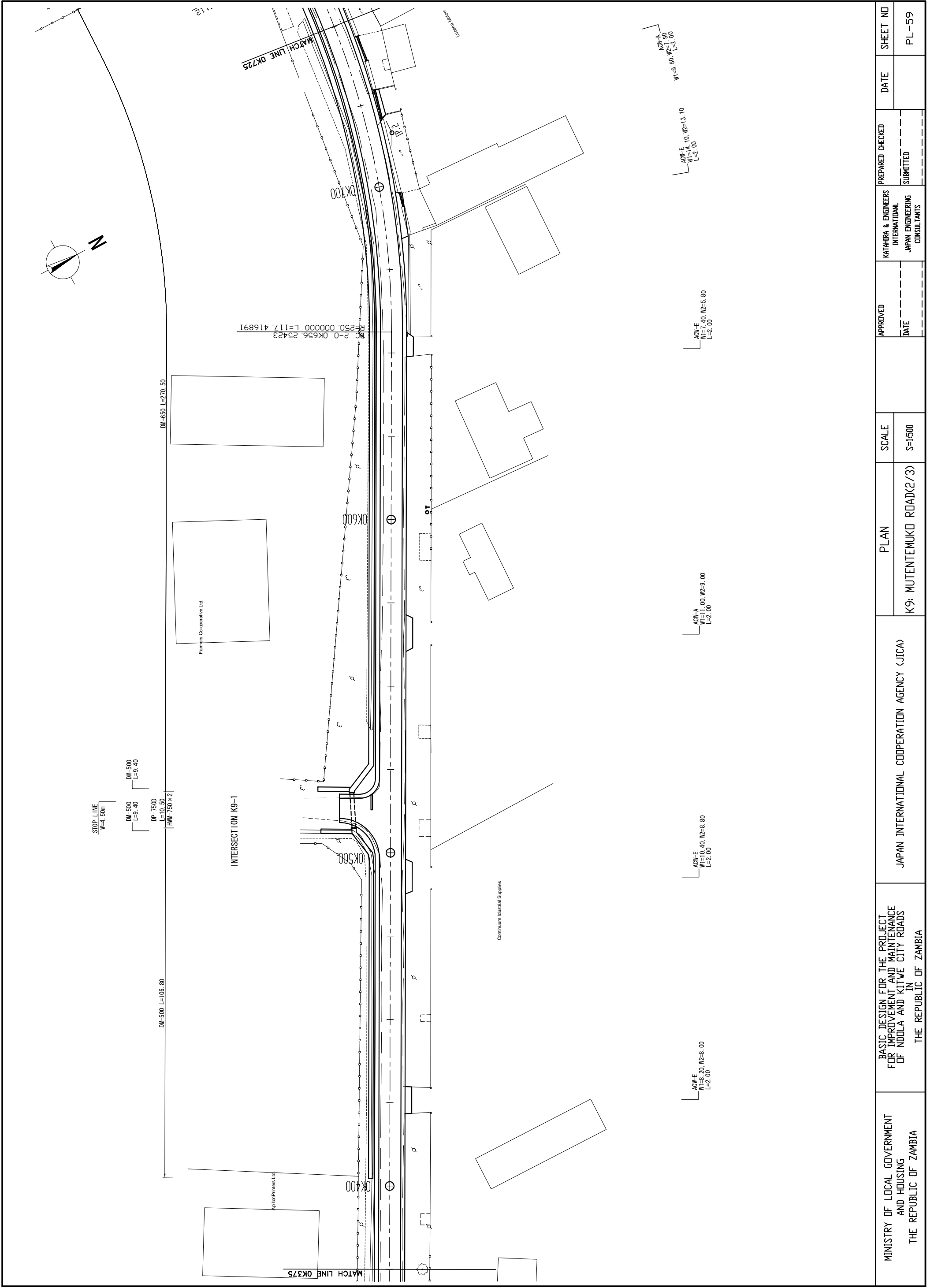
STOP LINE
W=3.50m

CROSSWALK
W=9.40m

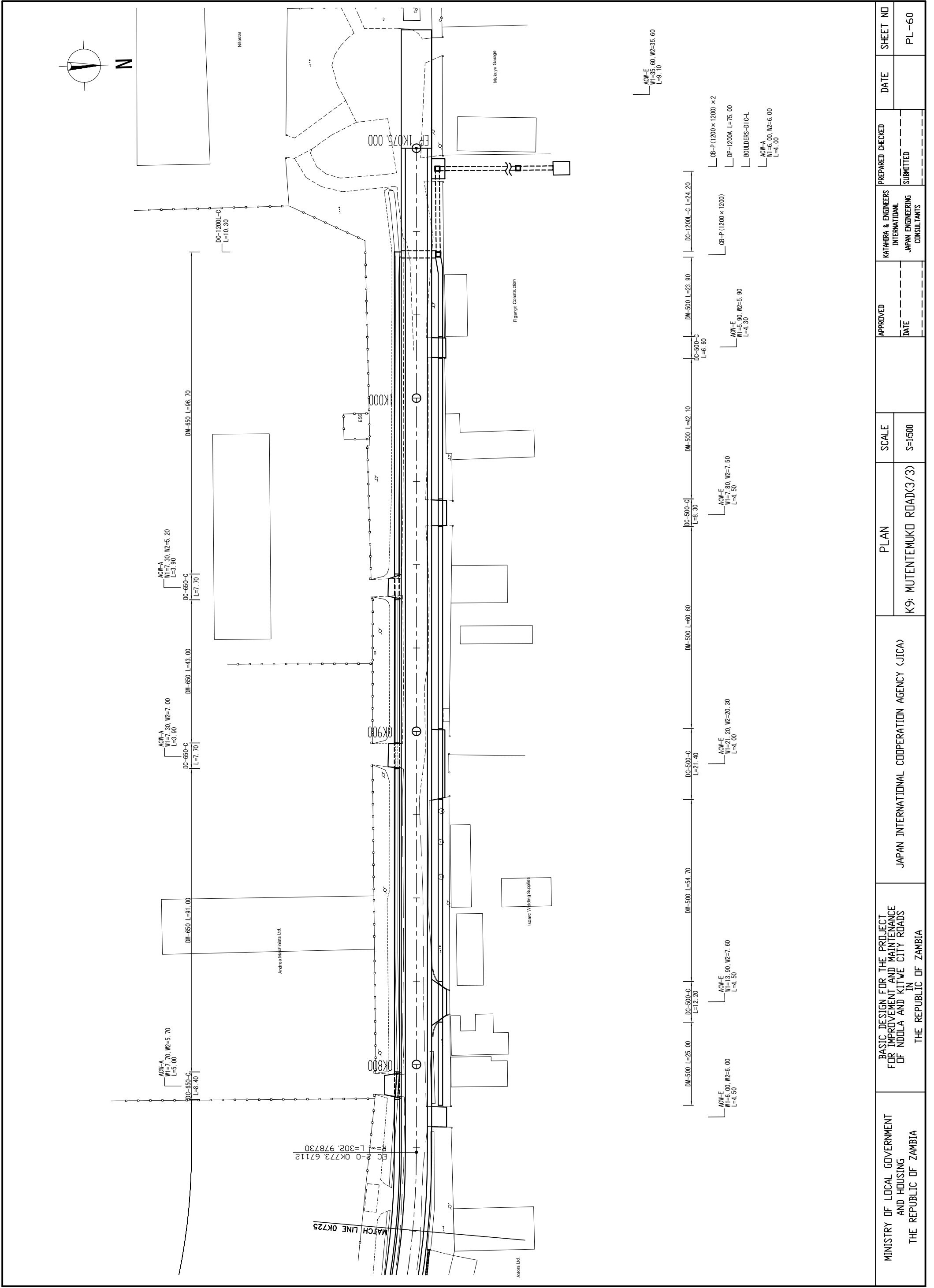
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-57
					DATE		SUBMITTED		



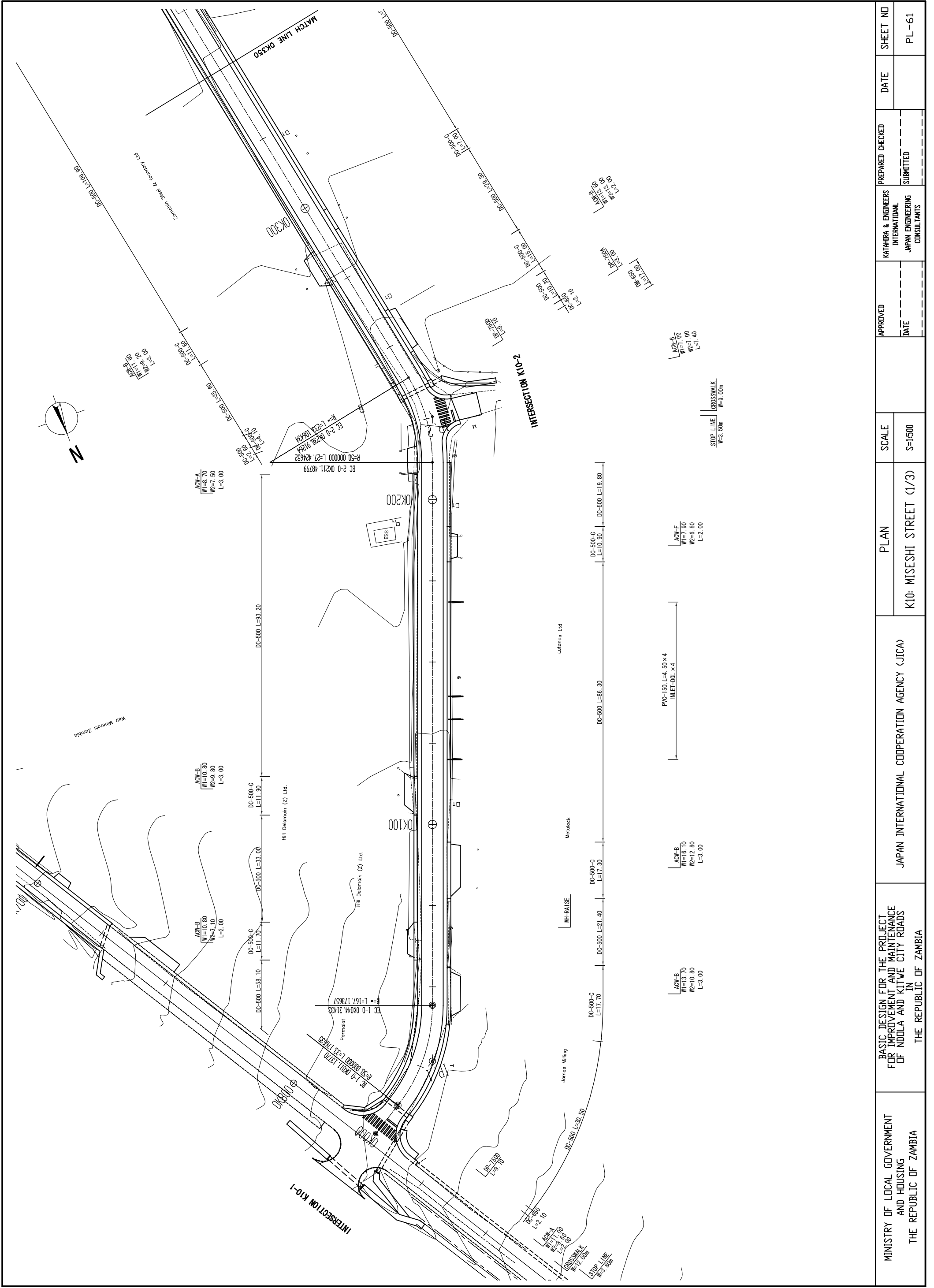
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-58
							SUBMITTED		



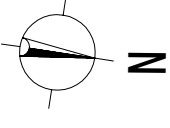
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED	SHEET NO
							CHECKED	DATE
			K9: MUTENTEMUKO ROAD(2/3)				SUBMITTED	PL-59



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
							SUBMITTED		PL-60

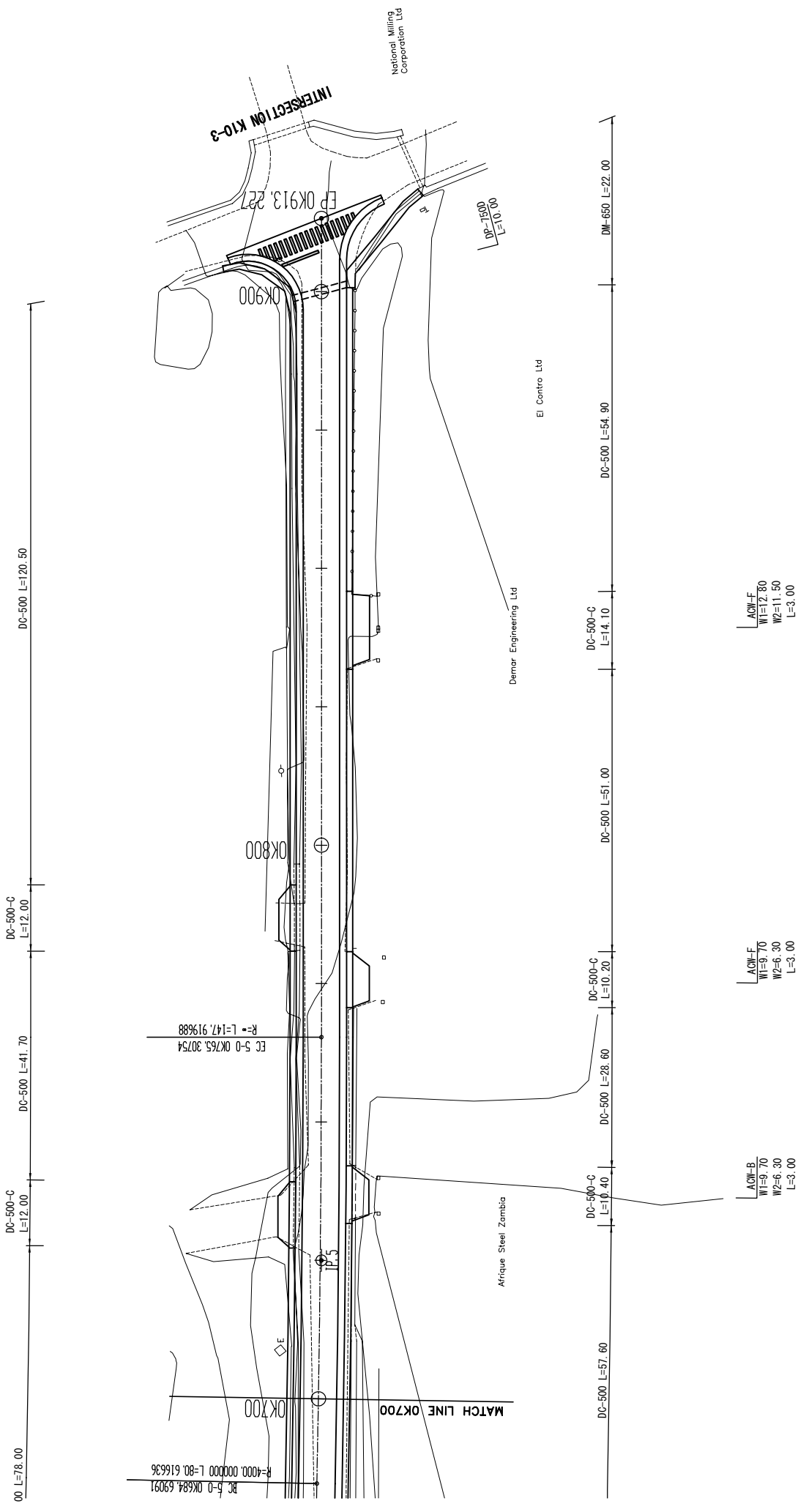


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-61
					DATE		SUBMITTED		

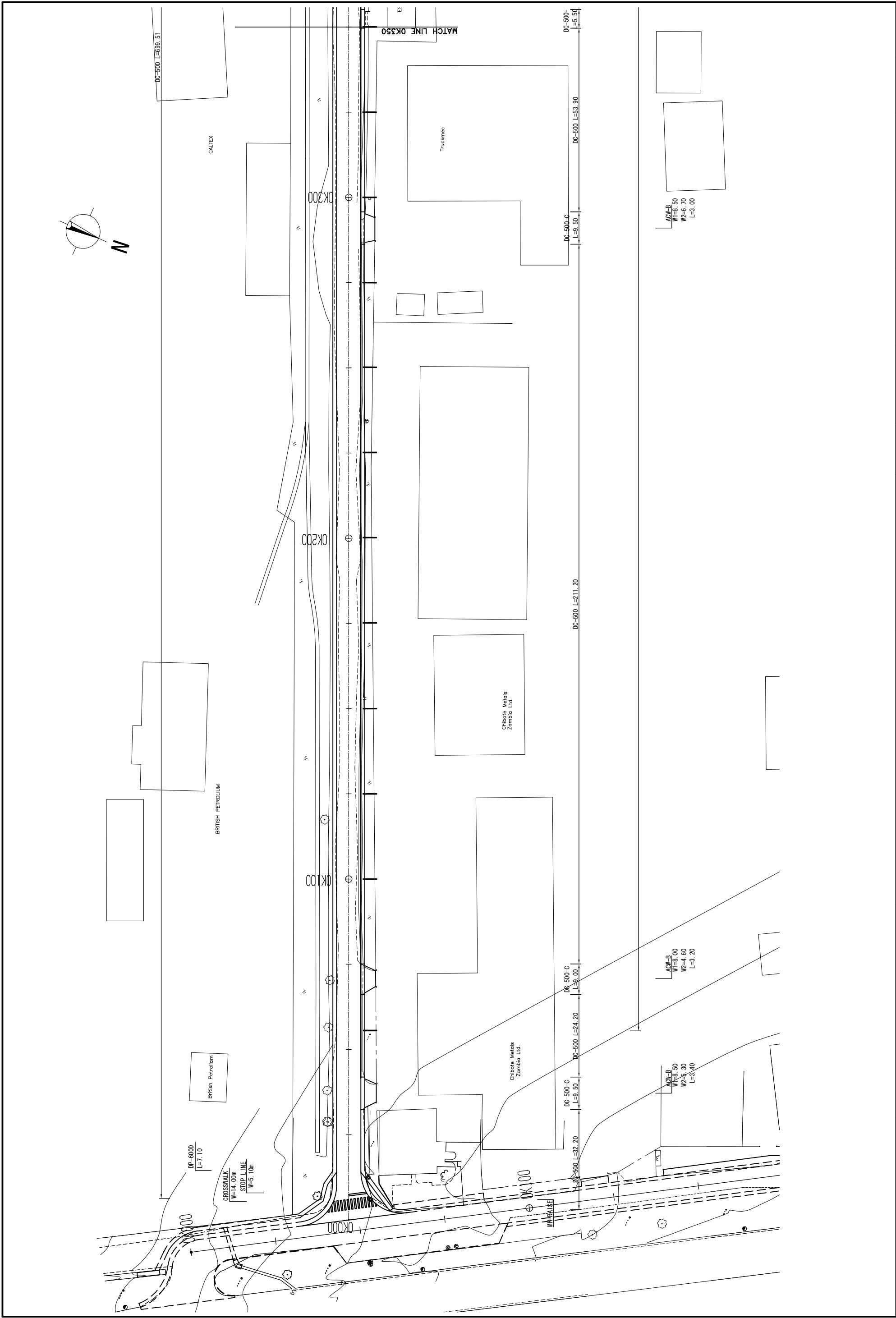


STOP LINE
W=7.00m

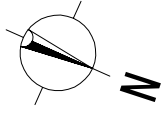
CROSSWALK
W=18.00m



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-63
					DATE		SUBMITTED		



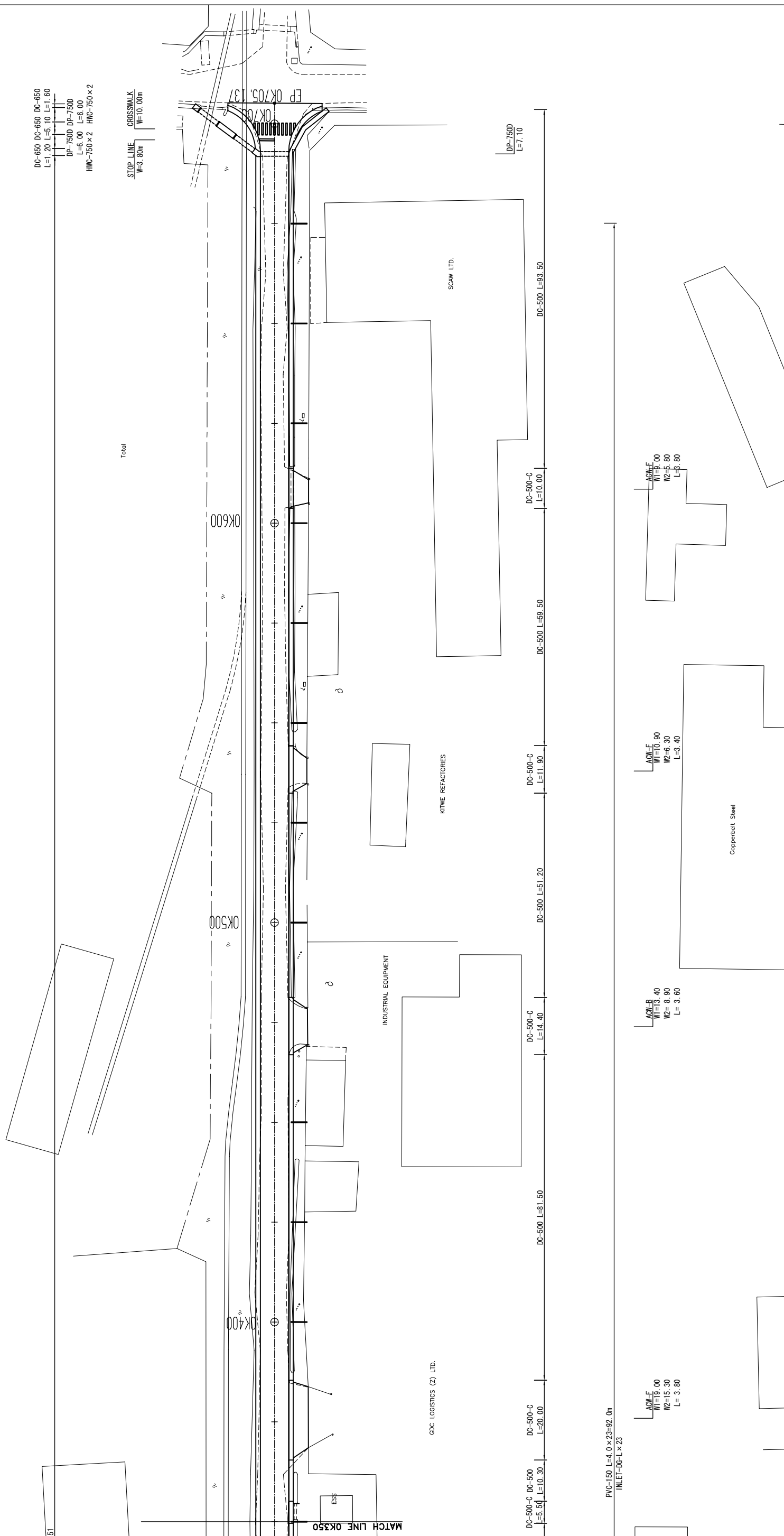
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO.
						SUBMITTED		PL-66



DC-650 DC-650 DC-650
 L=1.20 L=5.10 L=1.60
 DP-7500 DP-7500
 L=6.00 L=6.00
 HMC-750 x 2 HMC-750 x 2

STOP LINE CROSSWALK
 W=3.80m W=10.00m

Total



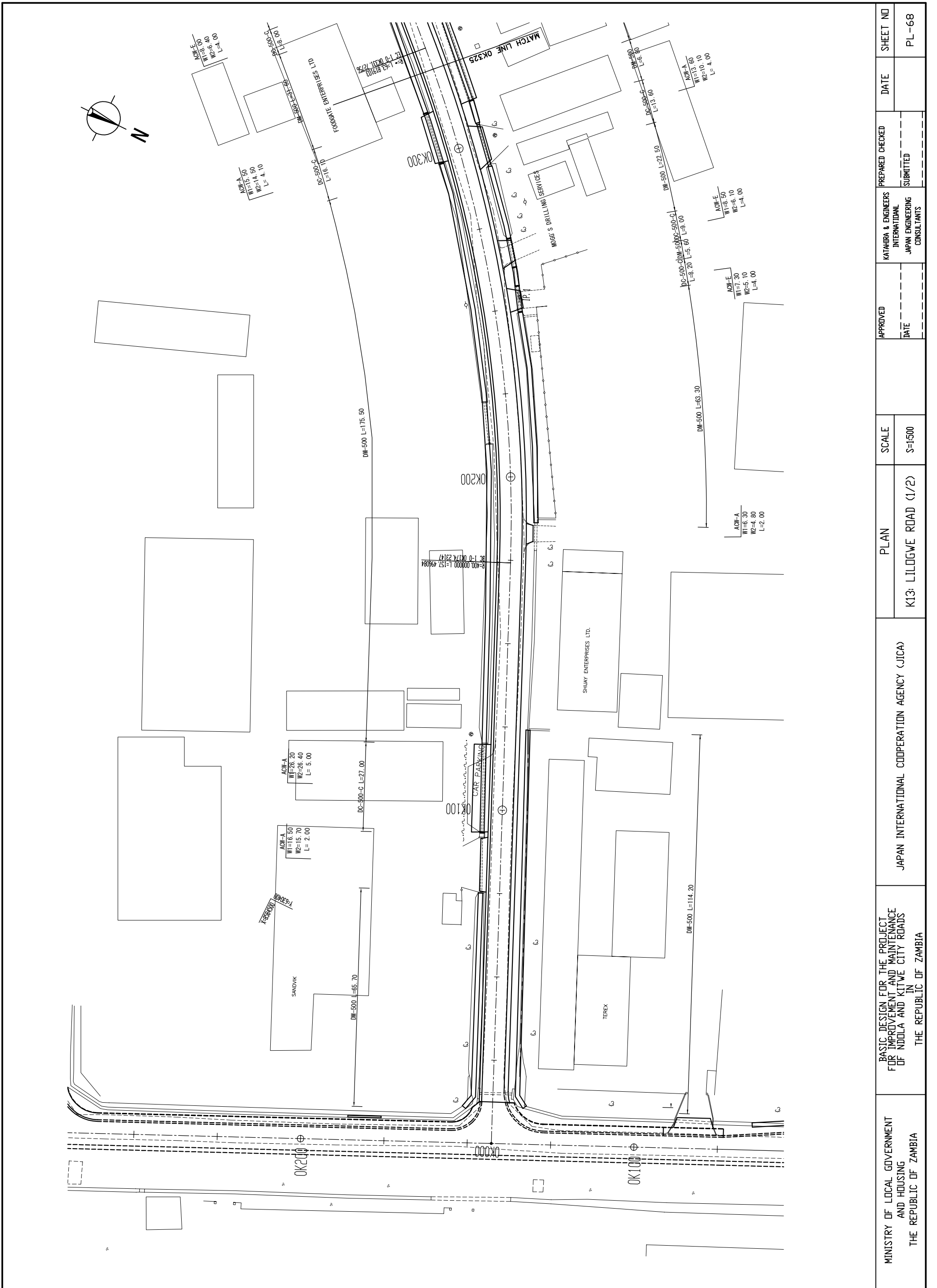
AGW-F
 W1=9.00
 W2=5.80
 L=3.80

AGW-F
 W1=10.90
 W2=6.30
 L=3.40

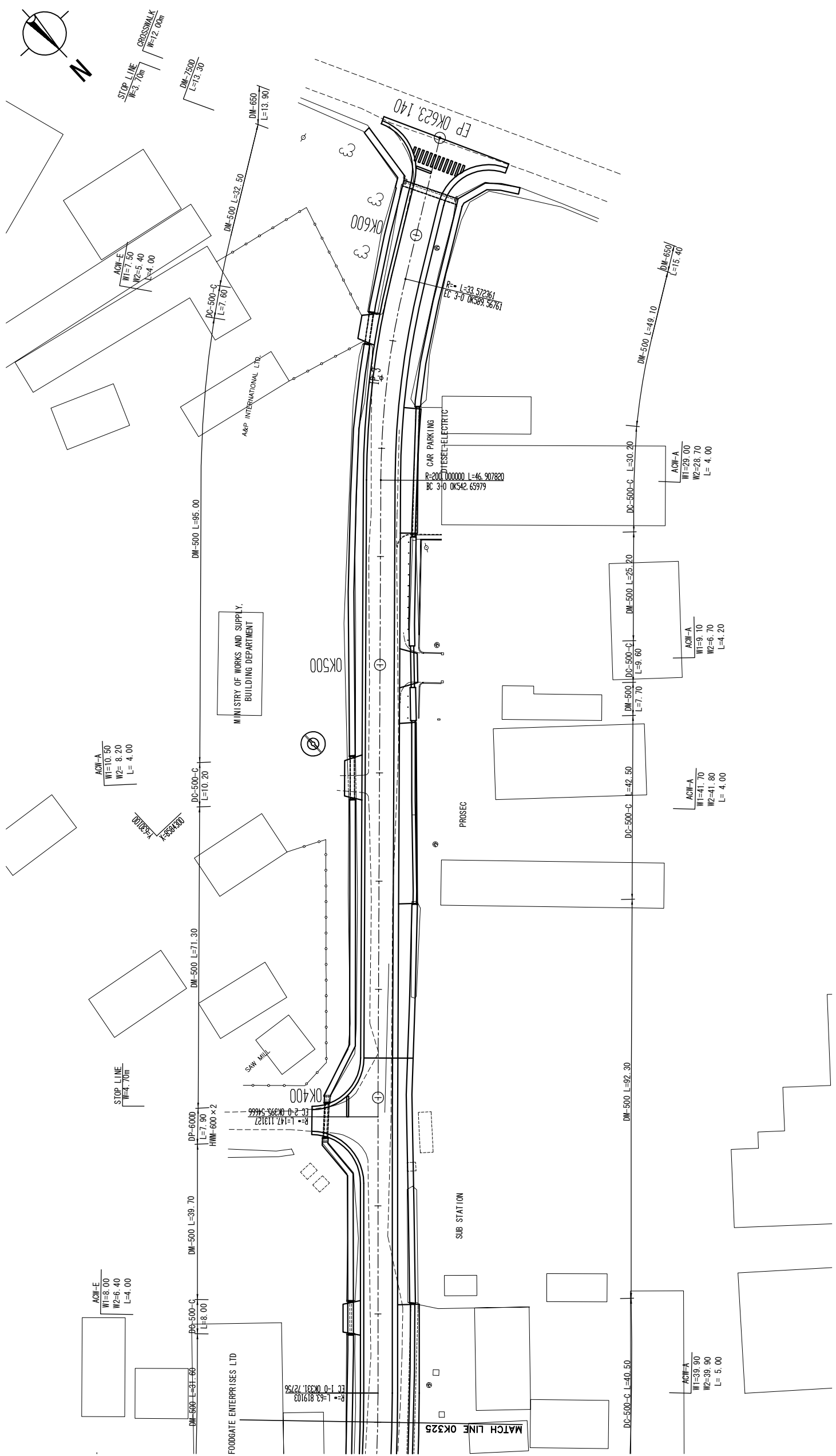
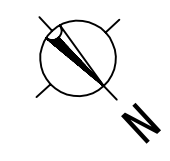
AGW-B
 W1=13.40
 W2=8.90
 L=3.60

AGW-F
 W1=19.00
 W2=15.30
 L=3.80

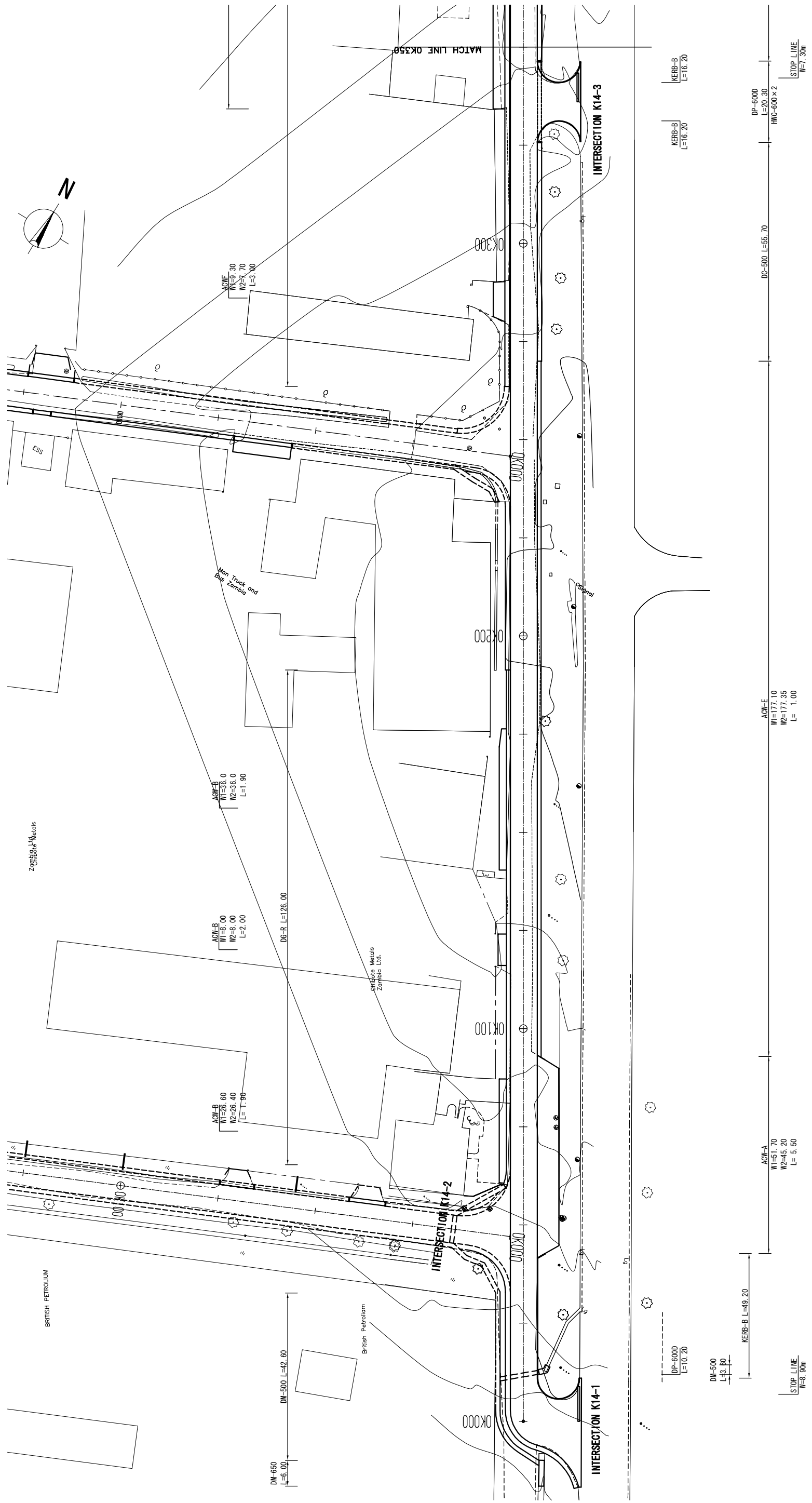
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	PLAN	SCALE	APPROVED DATE	KATAHARA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED SUBMITTED	DATE	SHEET NO
			K12: MULILAKWENDA ROAD (2/2)	S=1:500					PL-67



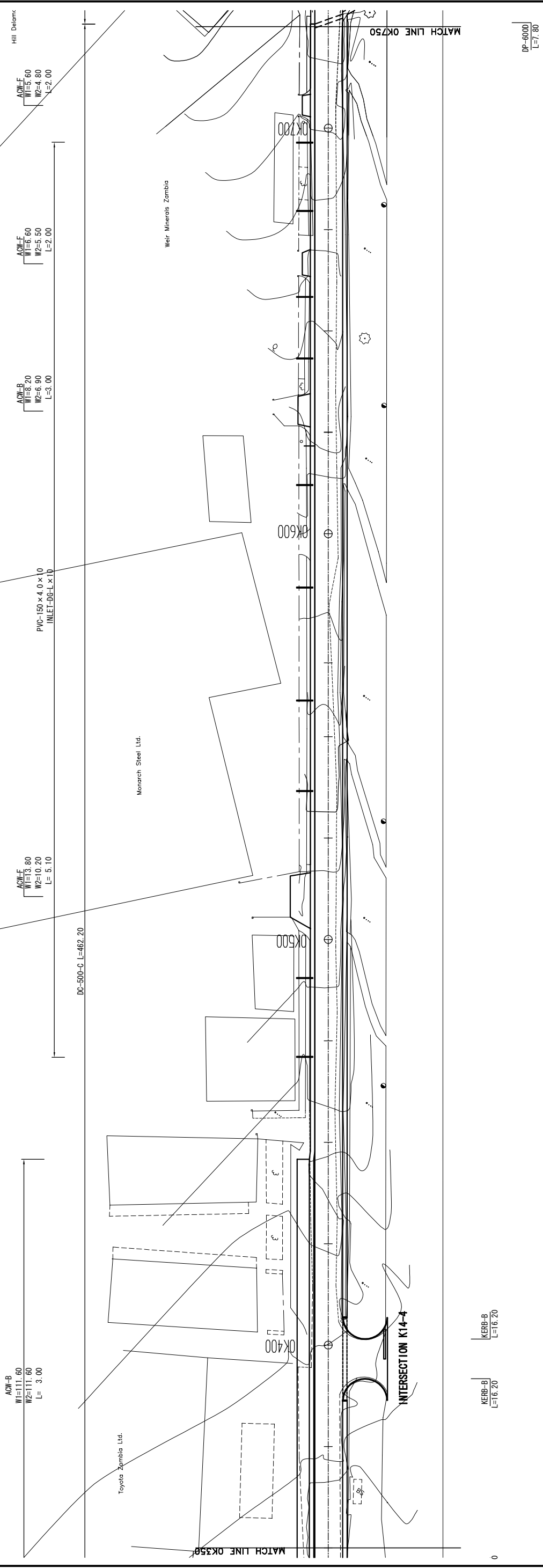
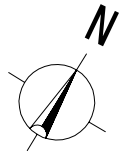
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED DATE	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
							SUBMITTED		PL-68

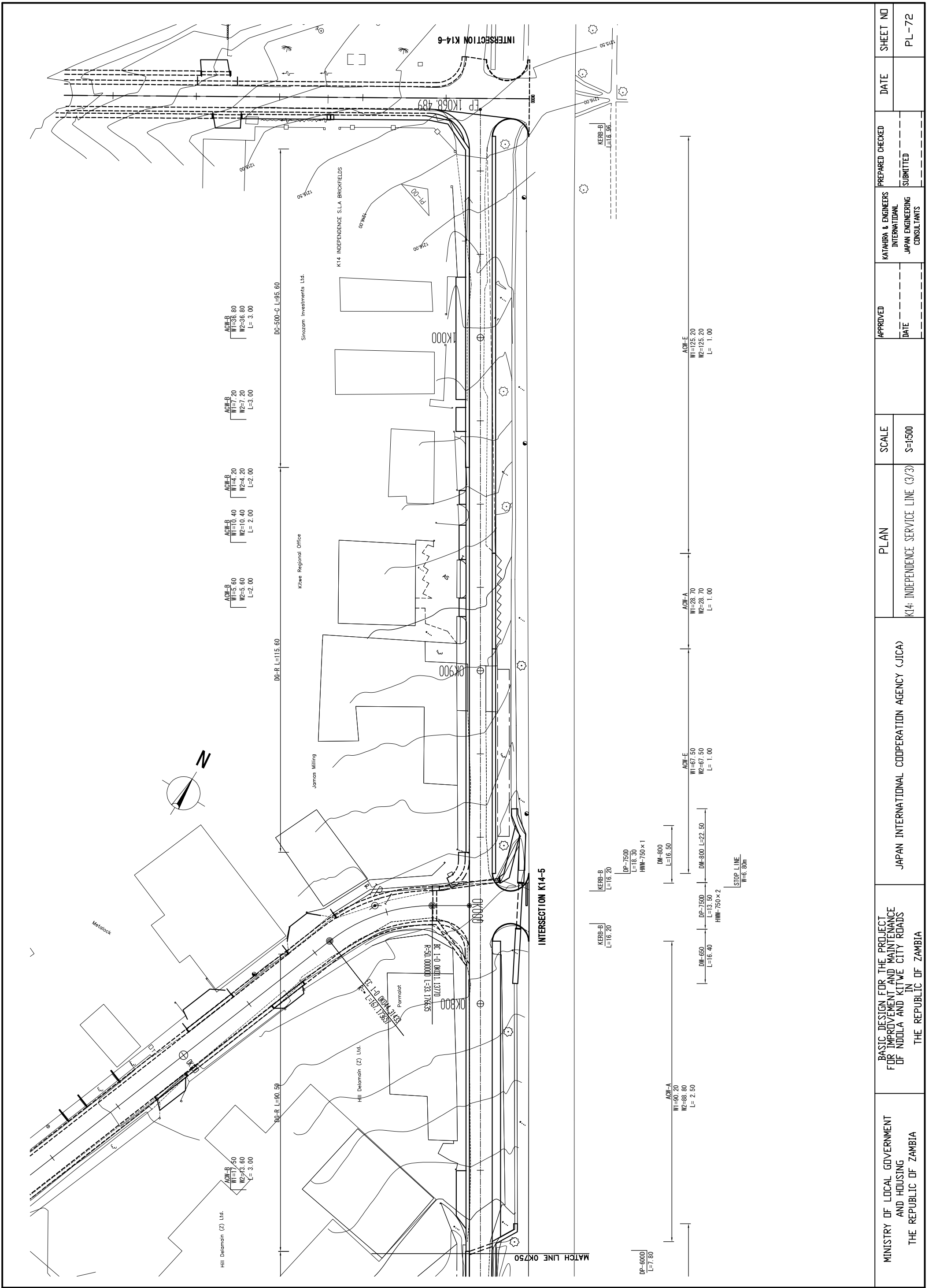


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO PL-69
				DATE		SUBMITTED		

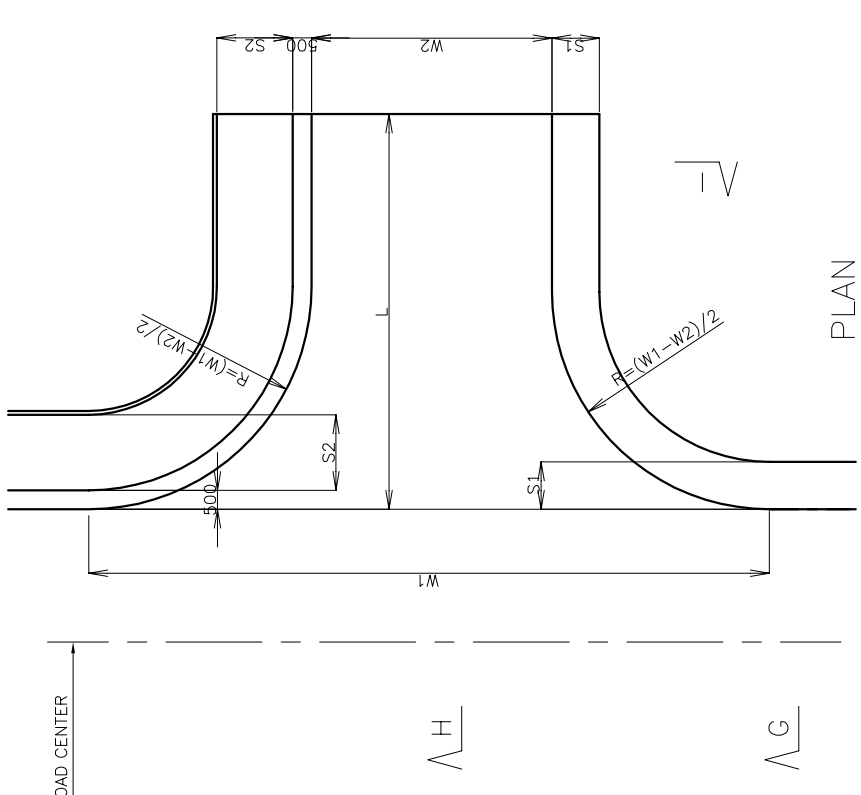
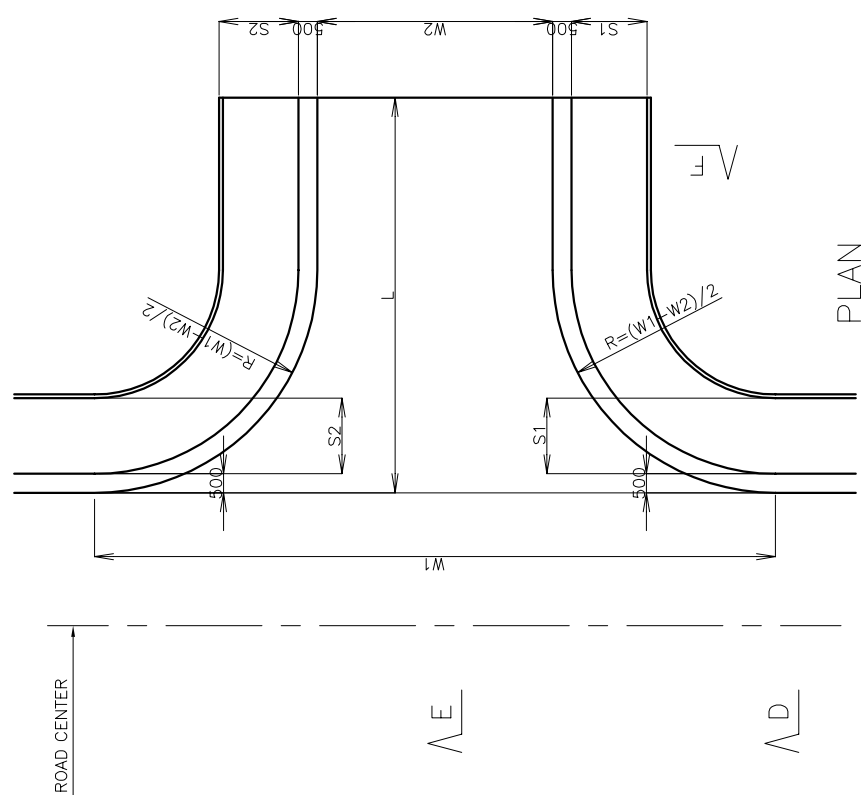
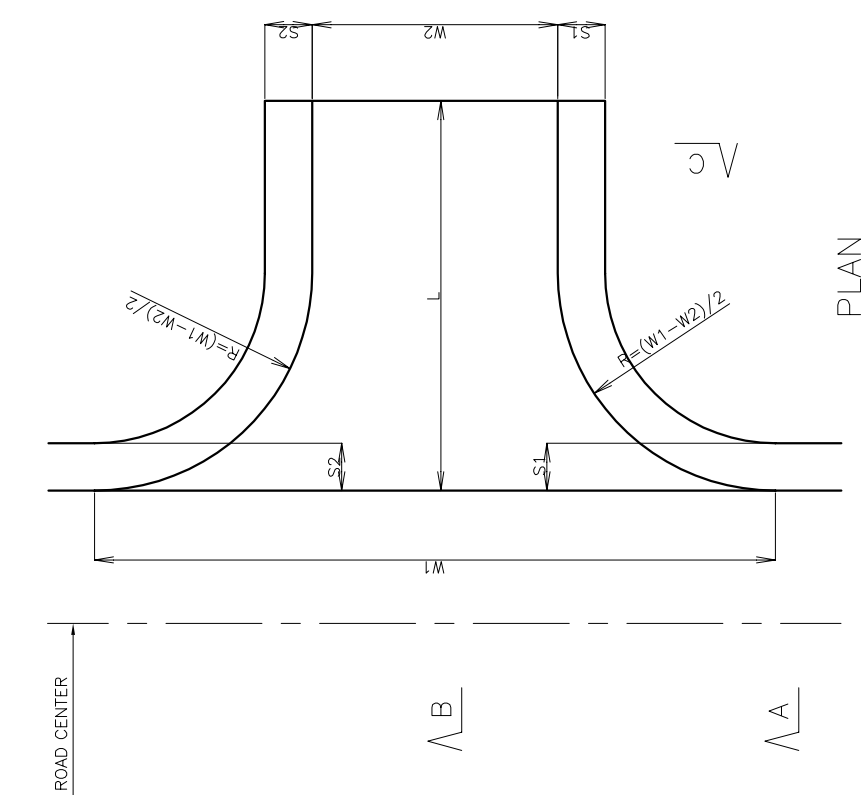


MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
				K14: INDEPENDENCE SERVICE LINE (1/3)			DATE	SUBMITTED	PL-70





MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PLAN	SCALE K14: INDEPENDENCE SERVICE LINE (3/3) S=1:500	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
					DATE		SUBMITTED	PL-72	



INTERSECTION TYPE-A

INTERSECTION TYPE-B

INTERSECTION TYPE-C

MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	BASIC DESIGN FOR THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF NDOLA AND KITWE CITY ROADS IN THE REPUBLIC OF ZAMBIA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	MINOR INTERSECTIONS	SCALE S=1:100	APPROVED	KATAHIRA & ENGINEERS INTERNATIONAL JAPAN ENGINEERING CONSULTANTS	PREPARED CHECKED	DATE	SHEET NO
					DATE		SUBMITTED	MI-1	