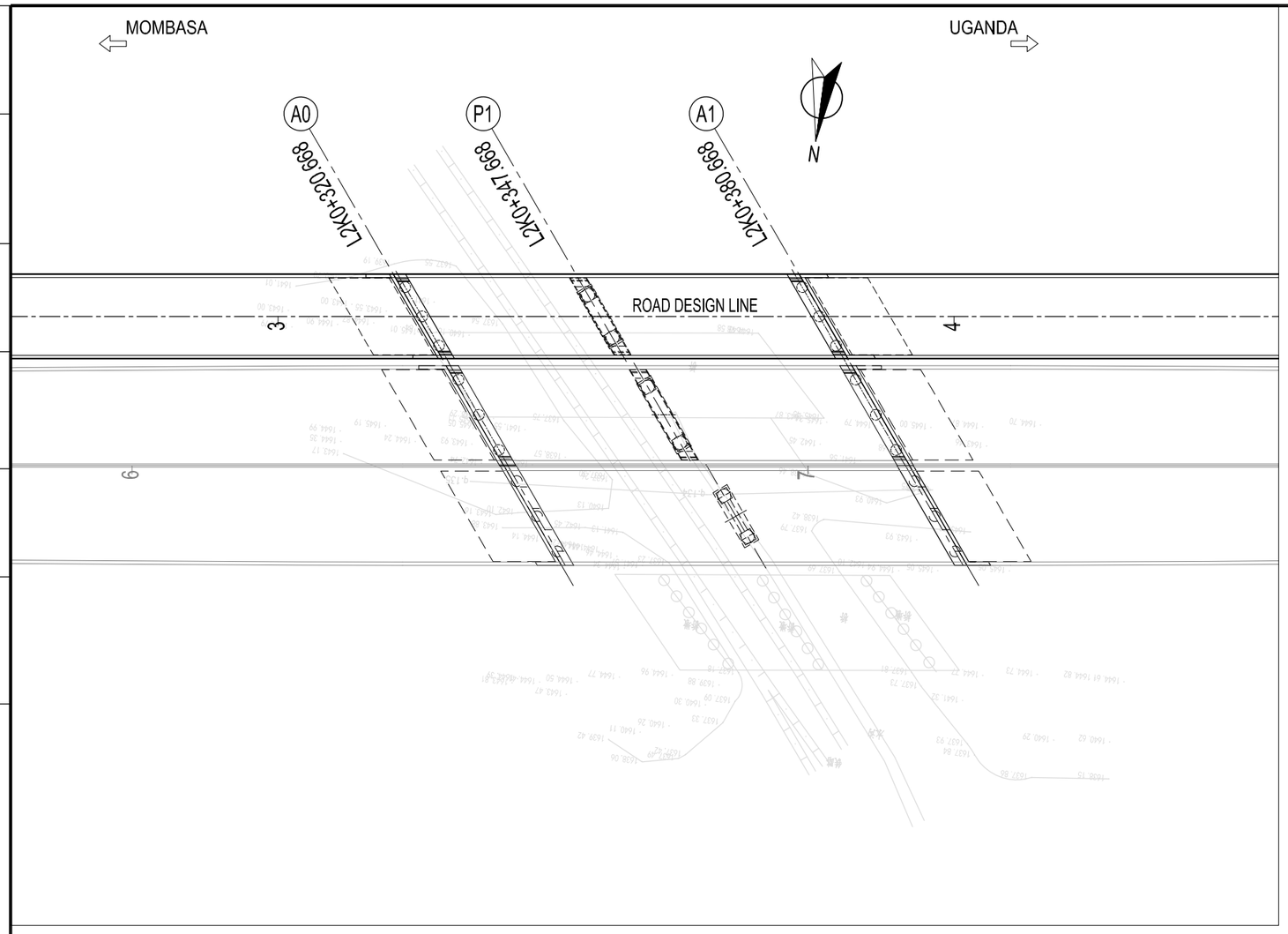
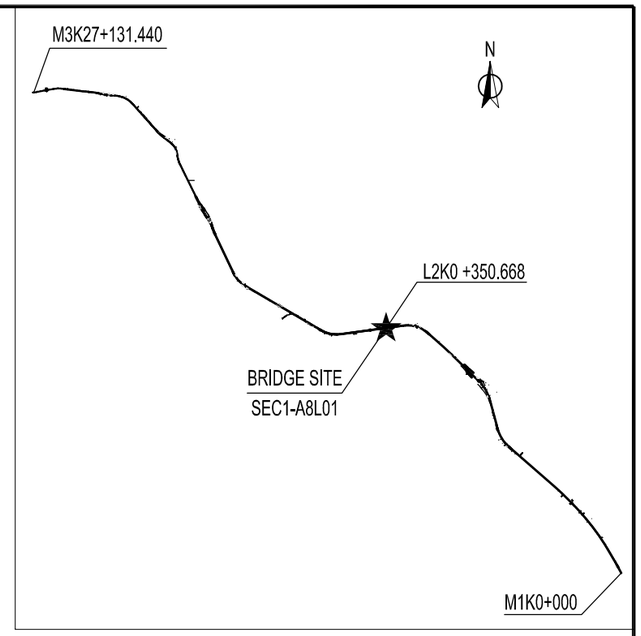
APPROVED

CHECKED

DESIGNED





LOCATION PLAN

NOTES:
1.ALL DIMENSIONS ARE IN METRES.
2.THE SCALE IS 1:800
3.THE COORDINATES IN THE GRAPH ARE THE KENYA INDEPENDENT COORDINATE SYSTEM.
(WGS-84 ELLIPSOID,GAUSS PROJECTION,THE PROJECTION HEIGHT IS 1640 M,CENTRAL MERIDIAN 37°05′)

KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668 - L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 GENERAL LAYOUT PLAN	DWG. NO.	NEP/CD/SEC1/BR/A8L01/200001-E
			DATE	AUG. 2021

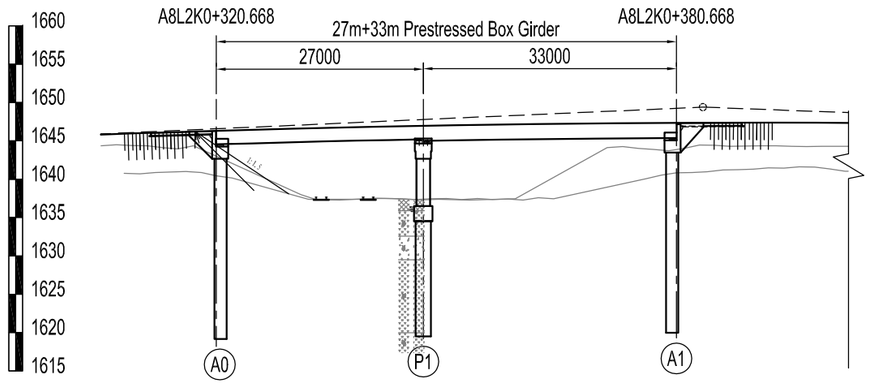
APPROVED

CHECKED

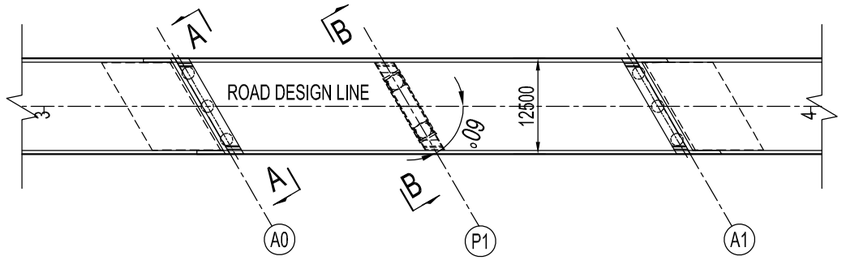
DESIGNED

ELEVATION 1:800

ELEVATION(m)

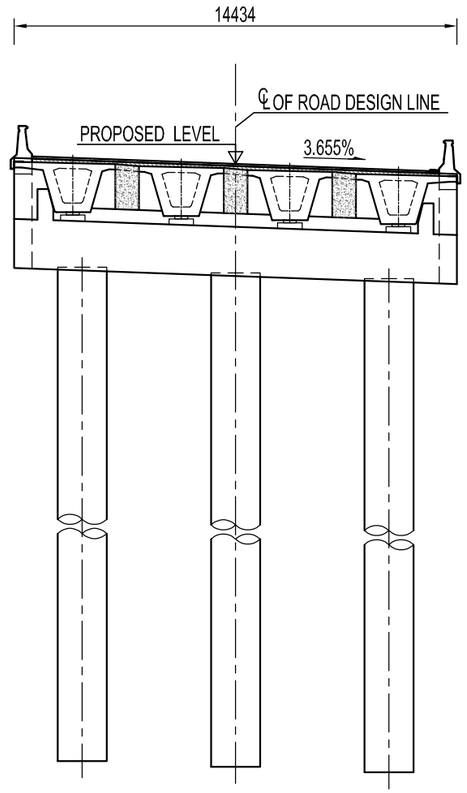


PLAN 1:800



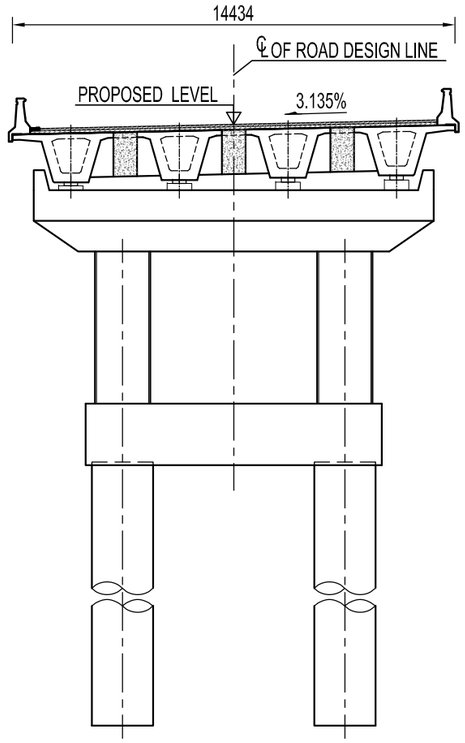
A-A 1:200

(FOR A0)



B-B 1:200

(FOR P1)



CHAINAGE(m)	A8L200 +320.668		+347.668		+380.668	
PROPOSED LEVEL(m)	1646.318		1646.968		1647.350	
GROUND LEVEL(m)	1640.420		1637.320		1640.838	
SLOPE(%)	4.45%					
LENGTH(m)	269.895				1649.405	+384.128
HORIZONTAL ALIGNMENT(m)	R=∞					
SUPER ELEVATION	2.5%					
	-2.5%	-2.5%				

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT FOR THE ELEVATION IN METERS.
2. THE ELEVATION SYSTEM IS CONSISTENT WITH THE ELEVATION SYSTEM OF NAIROBI EXPRESSWAY PROJECT.
3. THE COORDINATES IN THE GRAPH ARE THE KENYA INDEPENDENT COORDINATE SYSTEM (WGS-84 ELLIPSOID, GAUSS PROJECTION,THE PROJECTION HEIGHT IS 1640 m, CENTRAL MERIDIAN 37 ° 05 ').

KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668 - L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 GENERAL ARRANGEMENT	DWG. NO.	NEP/CD/SEC1/BR/A8L01/220001-E
			DATE	AUG. 2021

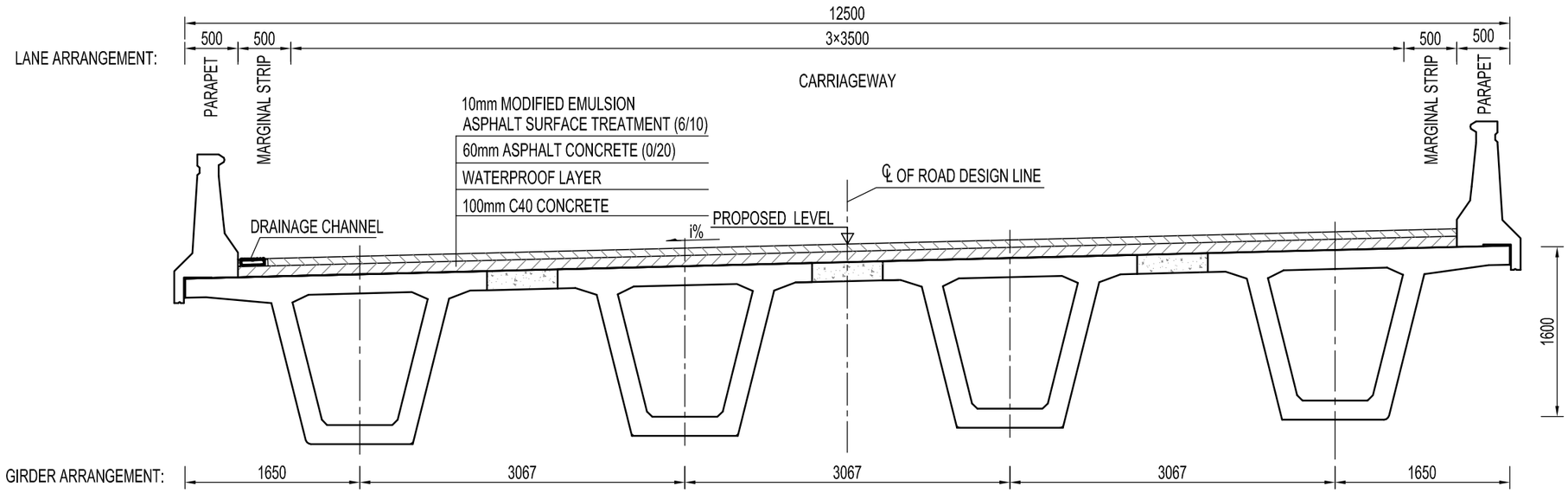
APPROVED

CHECKED

DESIGNED

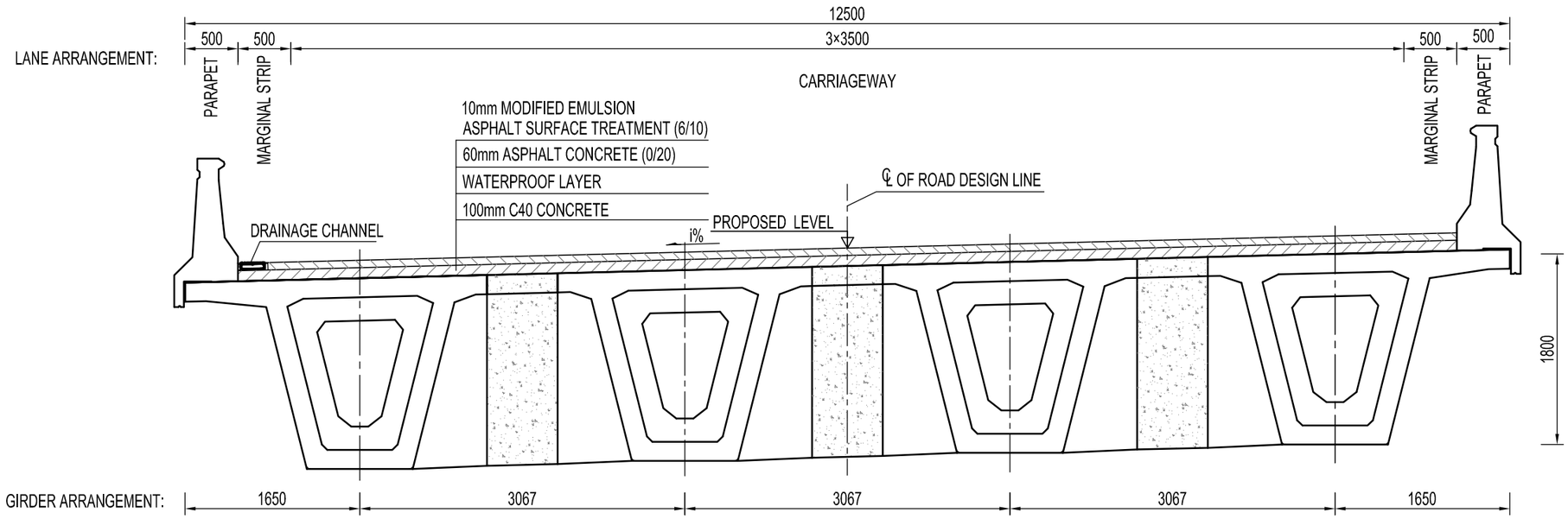
TYPICAL SECTION OF MIDSPAN 1:50

(FOR A8L2K0+320.668~A8L2K0+347.668)



TYPICAL SECTION OF MIDSPAN 1:50

(FOR A8L2K0+347.668~A8L2K0+380.668)



NOTES:

1.ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

2.DETAILS OF AUXILIARY REFER TO DWG NO:NEP/CD/FRD/BR/AN/000001~100001.

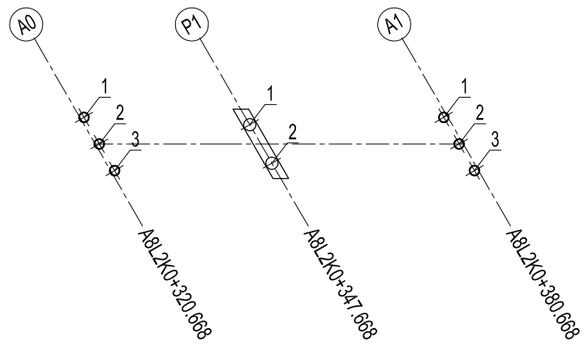
KENHA KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668 - L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 TYPICAL CROSS SECTION	DWG. NO.	NEP/CD/SEC1/BR/A8L01/230001-E
			DATE	AUG. 2021

APPROVED

CHECKED

DESIGNED

PLAN ARRANGEMENT OF FOUNDATION COORDINATES



FOUNDATION COORDINATES

PIER/ABUT	LOCATION	NORTHING	EASTING
A0	1	9853240.067	476763.350
	2	9853244.025	476760.294
	3	9853247.982	476757.238
P1	1	9853237.632	476736.369
	2	9853243.369	476731.939
A1	1	9853232.217	476705.125
	2	9853236.174	476702.068
	3	9853240.131	476699.012

NOTES:
1.ALL DIMENSIONS ARE IN THIS DRAWING ARE IN MILLIMETERS,EXCEPT CHAINAGE AND COORDINATES ARE IN METERS.
2.THE COORDINATES IN THE GRAPH ARE THE KENYA INDEPENDENT COORDINATE SYSTEM(WGS-84 ELLIPSOID,GAUSS PROJECTION,THE PROJECTION HEIGHT IS 1640 M,CENTRAL MERIDIAN 37°05′),
3.CONSTRUCTOR SHOULD REVIEW THE COORDINATES BEFORE THE COMMENCEMENT OF SUBSTRUCTURE.

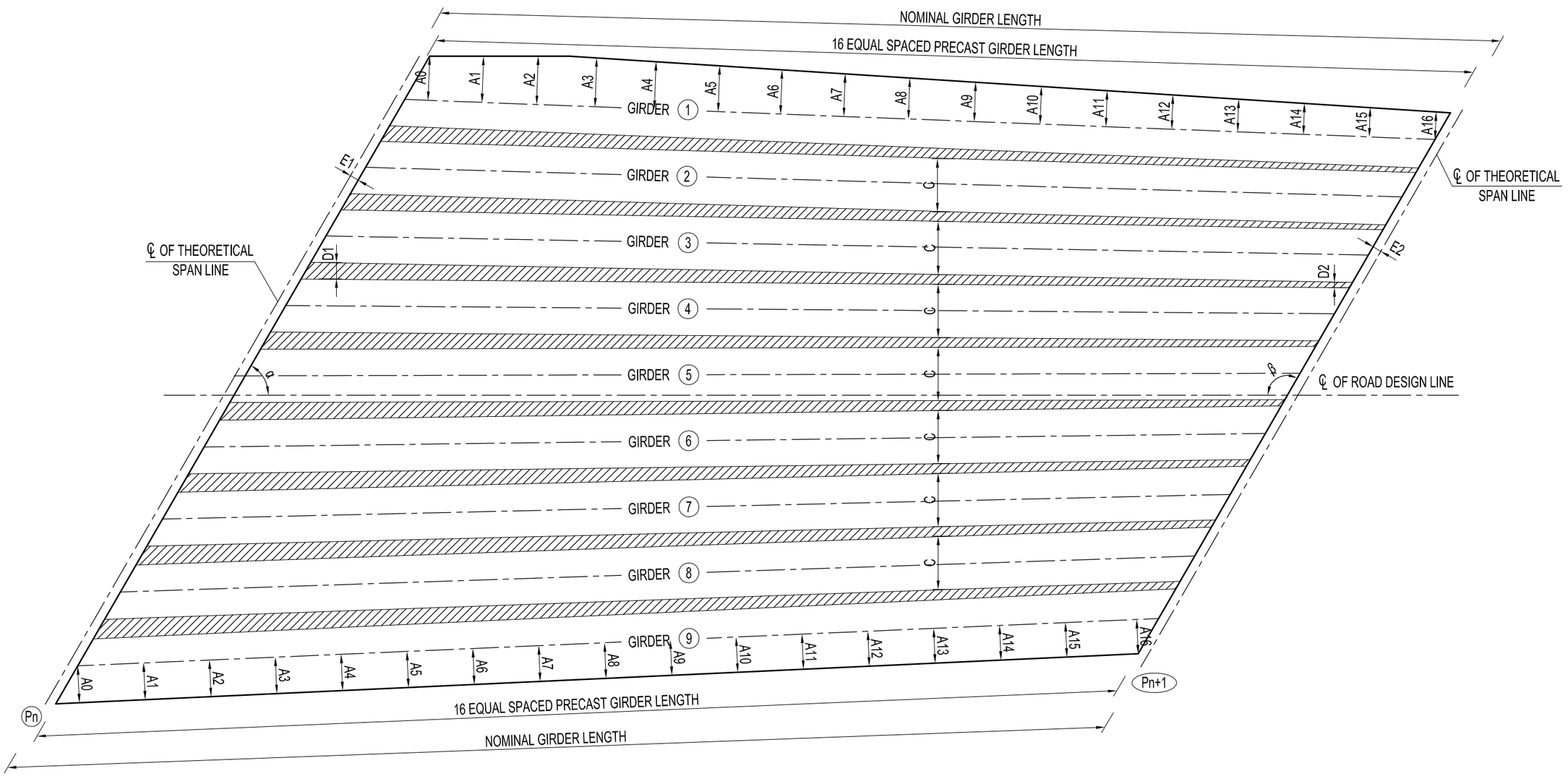
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668 - L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 FOUNDATION SETTING OUT SCHEDULE,SHEET 1/1	DWG. NO.	NEP/CD/SEC1/BR/A8L01/240001-E
			DATE	AUG. 2021

APPROVED

CHECKED

DESIGNED

SKETCH FOR PRECASTE BOX GIRDER



NOTES:

1.ALL DIMENSIONS ARE IN MILLIMETRES UNLINESS OTHERWISE STATED.

2.THE PRECAST BOX GRIDGE(SIDE BEAM) IS PREFABRICATED ACCORDING TO THE CANTILEVER VALUE AI OF THE ACTUAL SIDE BEAM(AI IS ONE FIFTH OF THE SINGALE-SPAN LENGTH) TO MEET THE REQUIREMENTS OF PLAN CURVE.

3.AS SHOWN IN THE DRAWING,THEPRECAST BOX GRIDGE OF EACH HOLE OF EACH BRIDGE IS NUMERED IN ORDER FROM THE LEFT TO THE RIGHT ACCORDING TO THE DIRECTION OF THE ROUTE.

4.THE WET JOINT WIDTH VALUES D1 AND D2 SHOWN IIN THE CHART ARE VALUES ALONG THE BEAM END.

5.DURING CONSTRUCTION,THE ANGLE OF THE BEAMEND AT THE ABOUTMENT(TRANSITION PIER)SHOULD BE PREFABRICATED STRICTLY ACCOORDING TO THE GIVEN VALUES a1(a2).

6.EACH PREFABRICATED BOX BEAM SHOULD BE NUMBERED DURING CONSTRUCTION TO AVOID MISUSE DURING INSTALLATION.

7.THE LENGTH OF THE PRECAST BEAM IS THE LENGTH OF THE BEAM CENTERLINE BETWEEN THE BEAM END LINES(INCLUDING THE LENGTH OF THE ANCHOR SECTION).

8.THE NOMNAL BEAM LENGTH IS THE LEMGTH OF THE BEAM CENTERLINE BETWEEN THE THEORETICAL SPAN LINES.

9.E1 AND E2ARE THE DISTANCES BETWEEN THE END OF THE PRECAST BOX GRIDGE(INCLUDING THE LENGTH OF THE ANCHORING SECTION) AND THE THEORETICAL SPAN LINE.

KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668 - L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 BEAM LAYOUT PLAN & SCHEDULE, SHEET 1/2	DWG. NO. DATE	NEP/CD/SEC1/BR/A8L01/250001-E AUG. 2021

APPROVED

CHECKED

DESIGNED

PRECAST BOX GIRDER PARAMETER

PIER/ABUT.	GIRDER NO.	GIRDER TYPE	GIRDER WIDTH C(mm)	JOINT WIDTH D1(mm)	JOINT WIDTH D2(mm)	START GAP E1(mm)	NOMINAL GIRDER LENGTH (mm)	PRECAST GIRDER LENGTH (mm)	END GAP E2(mm)	α(°)	β(°)	TRANSVERSE SLOPE(%)	LONGITUDINAL SLOPE(%)
A0~P1	01	BE03A	2850	-	-	40	27000	26908	40	60	120	2.5	2.52
	02	BE03B	2400	667	667	40	27000	26908	40	60	120	2.5	2.44
	03	BE03B	2400	667	667	40	27000	26908	40	60	120	2.5	2.37
	04	BE03A	2850	667	667	40	27000	26908	40	60	120	2.5	2.30
P1~A1	01	BE06A	2850	-	-	40	33000	32908	40	60	120	2.5	1.56
	02	BE06B	2400	667	667	40	33000	32908	40	60	120	2.5	1.47
	03	BE06B	2400	667	667	40	33000	32908	40	60	120	2.5	1.38
	04	BE06A	2850	667	667	40	33000	32908	40	60	120	2.5	1.29

PRECAST BOX GIRDER FLANGE PARAMETERS

PIER/ABUT.	POSITION	A0(mm)	A1(mm)	A2(mm)	A3(mm)	A4(mm)	A5(mm)	A6(mm)	A7(mm)	A8(mm)	A9(mm)	A10(mm)	A11(mm)	A12(mm)	A13(mm)	A14(mm)	A15(mm)	A16(mm)
A0~P1 P1~A1	LEFT	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
	RIGHT	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650

NOTES:

1.ALL DIMENSIONS ARE IN MILLIMETRES UNLINESS OTHERWISE STATED.

2.THE HORRIZONTAL SLOPE IS POSITIVE IF THE RIGHT SIDES IS HIGHER THAN LEFT IN THE DIRECTION OF THEROUTE, AND NEGATIVE IN THE OPPOSITE DIRECTION.

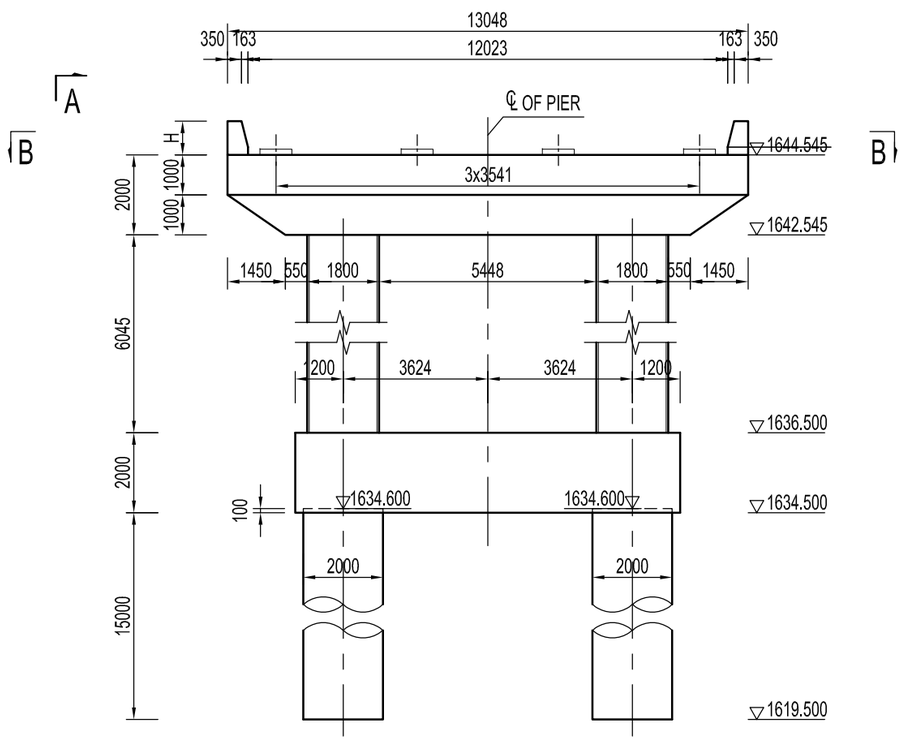
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668 - L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 BEAM LAYOUT PLAN & SCHEDULE, SHEET 2/2	DWG. NO. NEP/CD/SEC1/BR/A8L01/250002-E DATE AUG. 2021

APPROVED

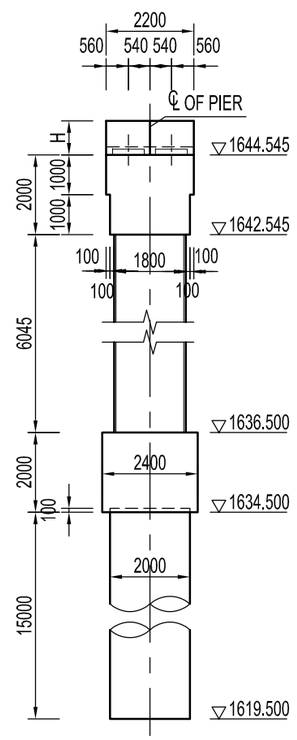
CHECKED

DESIGNED

ELEVATION 1:150

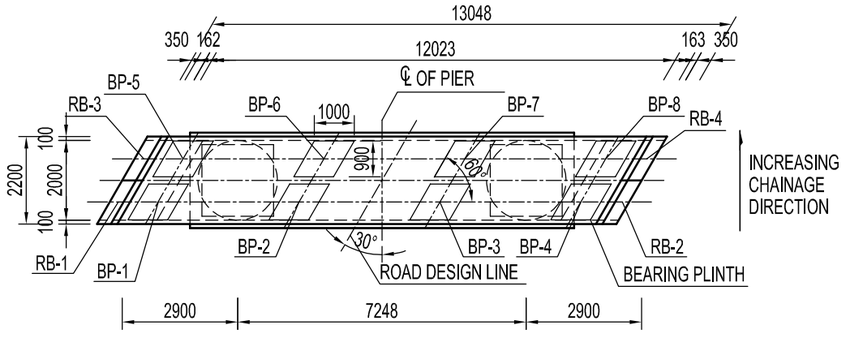


A-A 1:150



A

B-B 1:150



RETAINING BLOCK SCHEDULE

BP MARK	HEIGHT
RB-1	830
RB-2	1200
RB-3	650
RB-4	1000

BEARING PLINTH ELEVATION SCHEDULE

BP MARK	ELEVATION	HEIGHT	BEARING TYPE
BP-1	1644.860	315	GBZY500x110(CR)
BP-2	1644.971	426	GBZY500x110(CR)
BP-3	1645.081	536	GBZY500x110(CR)
BP-4	1645.190	644	GBZY500x110(CR)
BP-5	1644.685	140	GBZY550x110(CR)
BP-6	1644.795	250	GBZY550x110(CR)
BP-7	1644.904	359	GBZY550x110(CR)
BP-8	1645.011	466	GBZY550x110(CR)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT FOR THE ELEVATION IN METRES.
2. DIMENSION AND REINFORCEMENT OF BEARING PLINTH REFER TO RELEVENT DRAWING IN DETAIL.
3. DIMENSION AND REINFORCEMENT OF RETAINING BLOCK REFER TO RELEVENT DRAWING IN DETAIL.

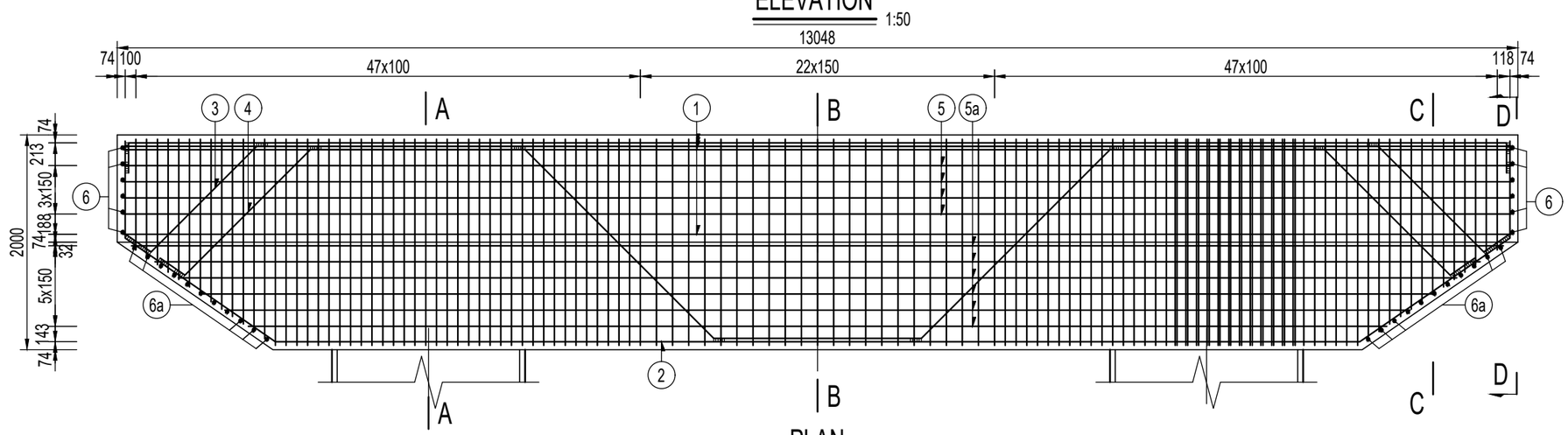
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 PIER AND FOUNDATION LAYOUT PLAN	DWG. NO.	NEP/CD/SEC1/BR/A8L01/400001-E
			DATE	AUG. 2021

APPROVED

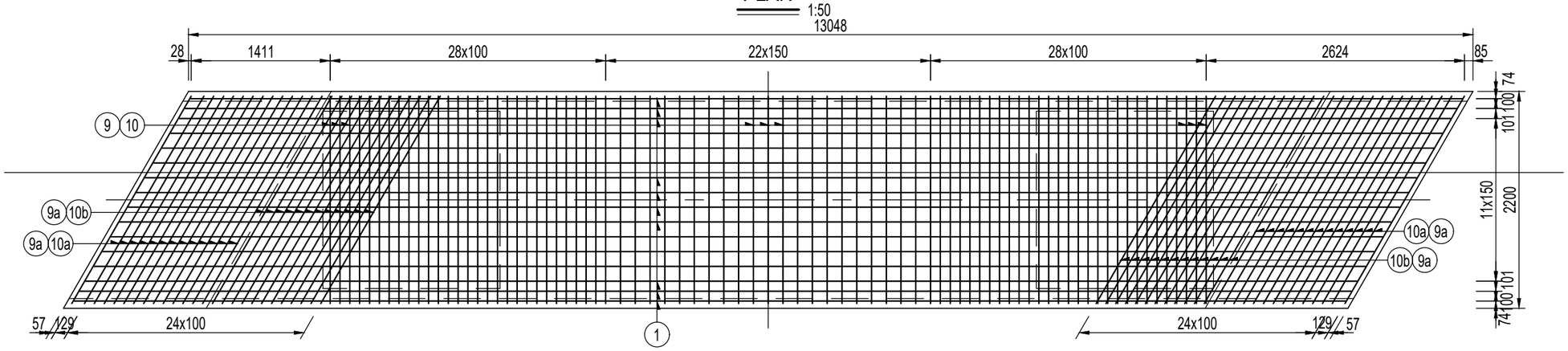
CHECKED

DESIGNED

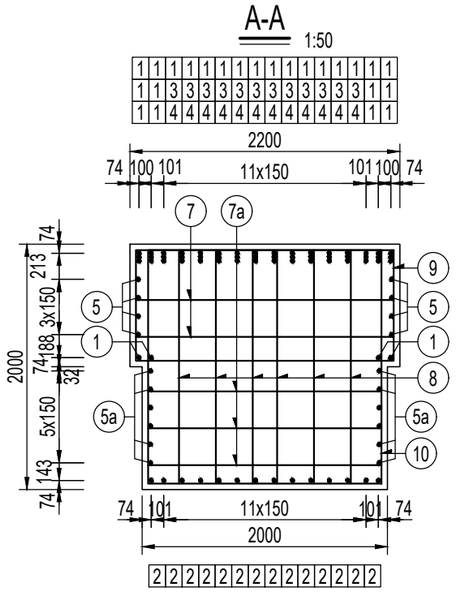
ELEVATION 1:50



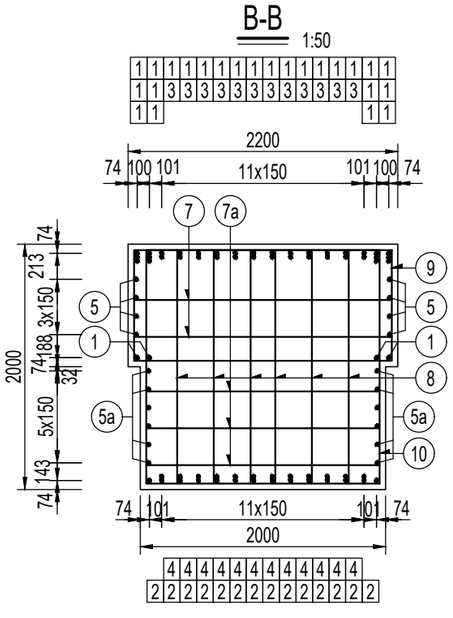
PLAN 1:50



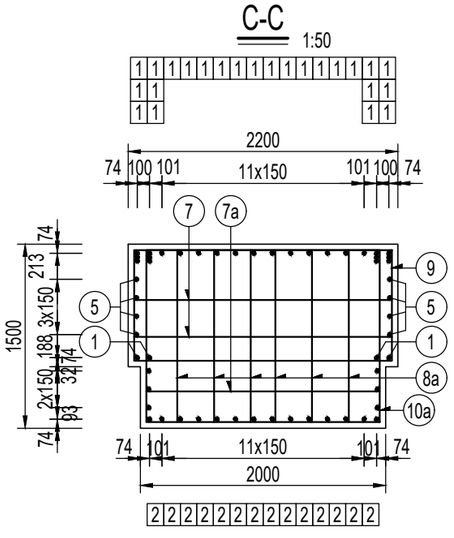
A-A 1:50



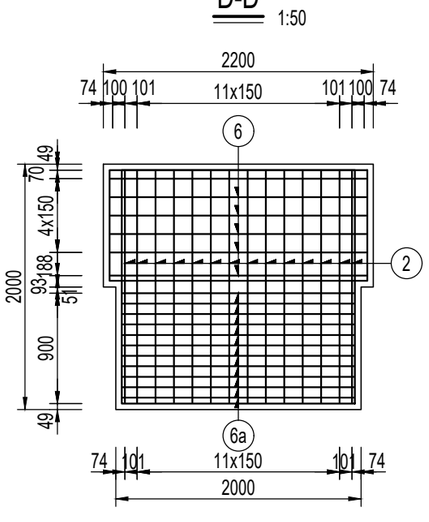
B-B 1:50



C-C 1:50



D-D 1:50

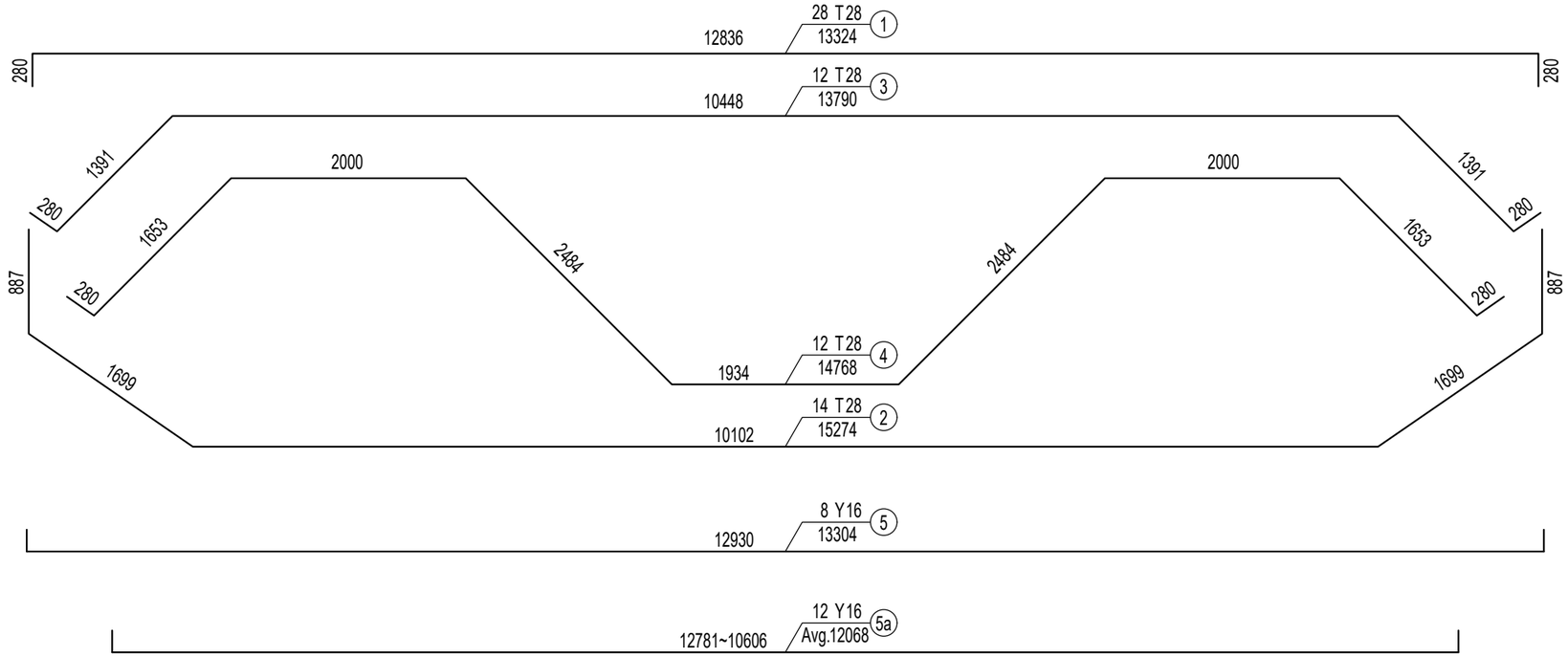


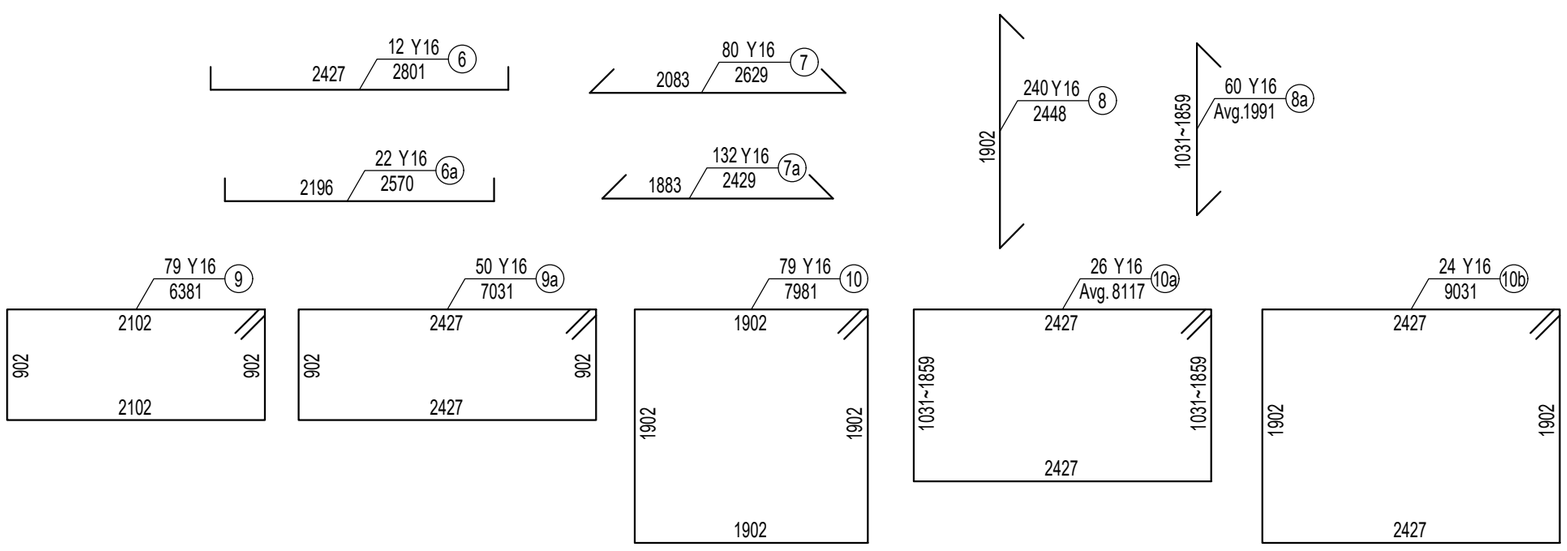
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 PIER CROSSHEAD REINFORCEMENT DETAILS, SHEET 1/2	DWG. NO. DATE	NEP/CD/SEC1/BR/A8L01/410001-E AUG. 2021

APPROVED

CHECKED

DESIGNED





REINFORCEMENT SCHEDULE

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 28	13324	28
2	T 28	15274	14
3	T 28	13790	12
4	T 28	14768	12
5	Y 16	13304	8
5a	Y 16	Avg.12068	12
6	Y 16	2801	12
6a	Y 16	2570	22
7	Y 16	2629	80
7a	Y 16	2429	132
8	Y 16	2448	240
8a	Y 16	Avg. 1991	60
9	Y 16	6381	79
9a	Y 16	7031	50
10	Y 16	7981	79
10a	Y 16	Avg. 8117	26
10b	Y 16	9031	24

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

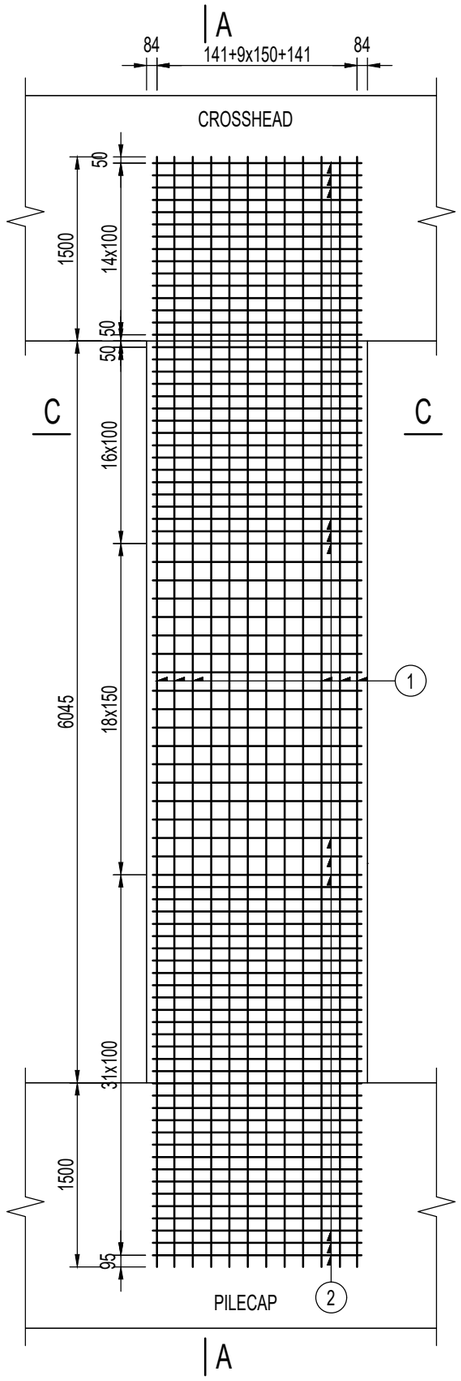
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 PIER CROSSHEAD REINFORCEMENT DETAILS, SHEET 2/2	DWG. NO. NEP/CD/SEC1/BR/A8L01/410002-E DATE AUG. 2021

APPROVED

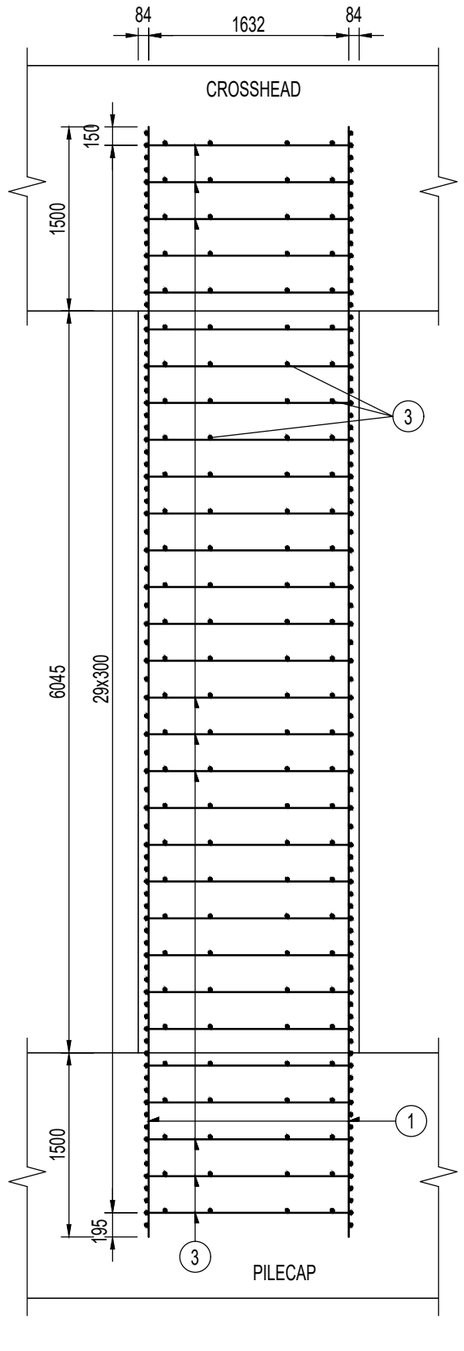
CHECKED

DESIGNED

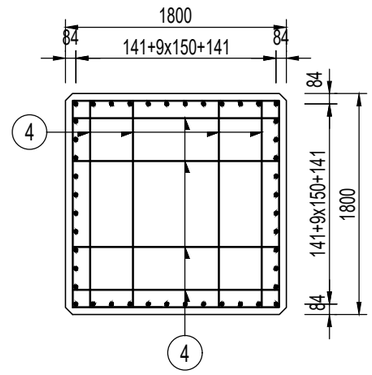
ELEVATION 1:50

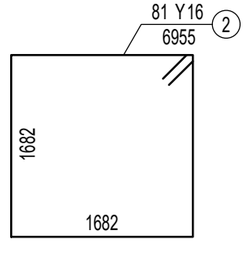


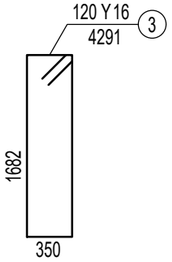
A-A 1:50



B-B 1:50







REINFORCEMENT SCHEDULE

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 28	9373	44
2	Y 16	7115	81
3	Y 16	4451	120

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

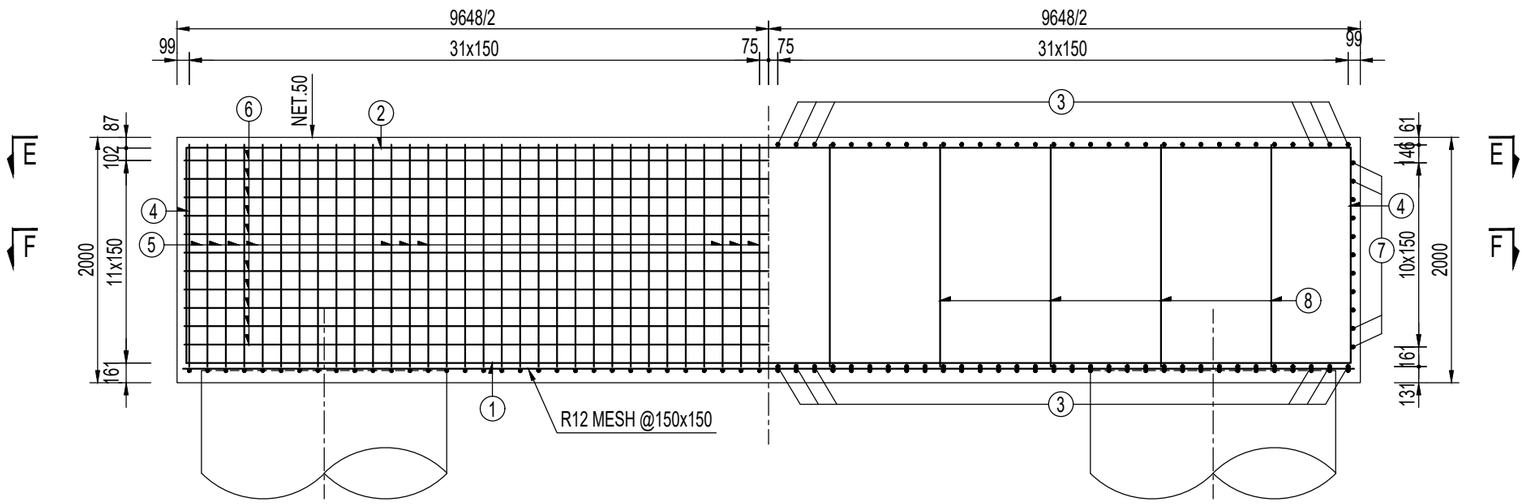
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 PIER REINFORCEMENT DETAILS	DWG. NO. DATE	NEP/CD/SEC1/BR/A8L01/420001-E AUG. 2021

APPROVED

CHECKED

DESIGNED

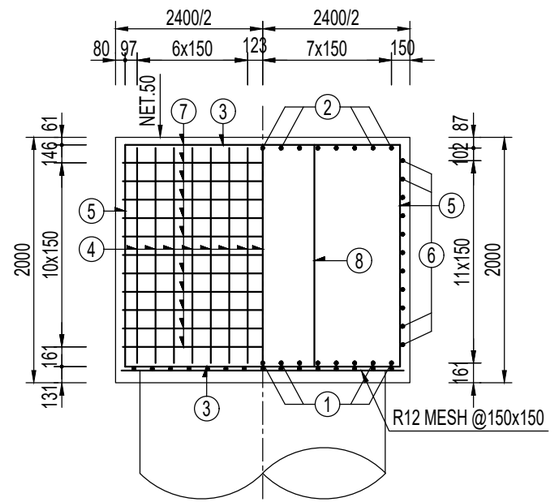
1/2 SECTION A-A 1:50



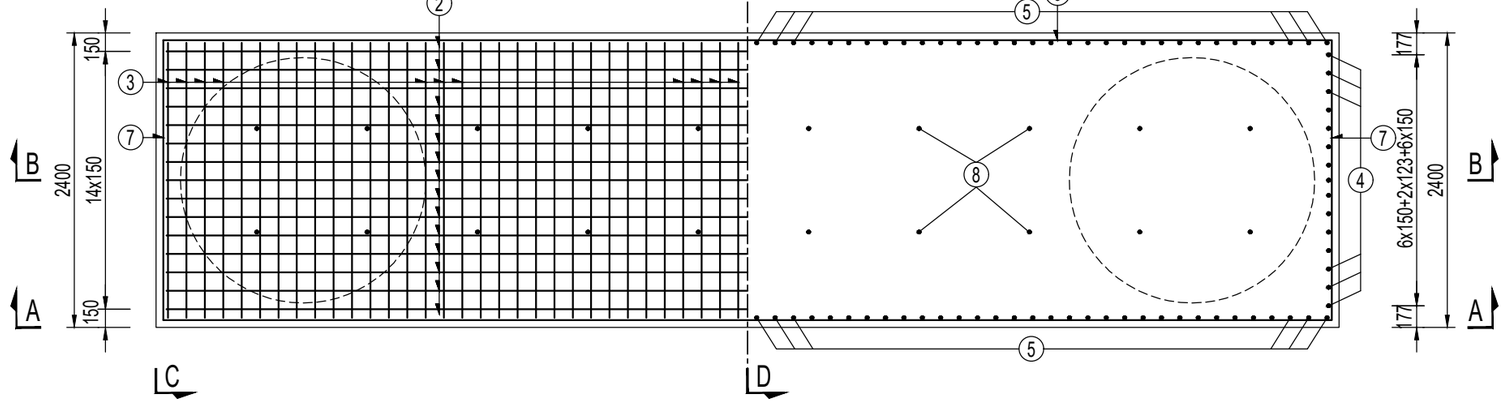
1/2 SECTION B-B 1:50

1/2 SECTION C-C 1:50

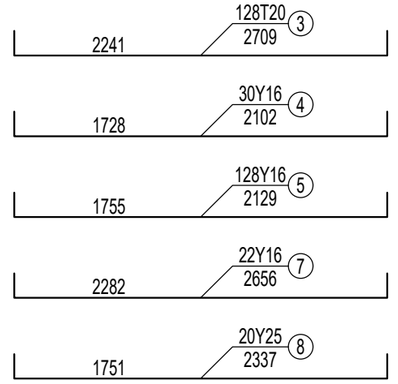
1/2 SECTION D-D 1:50

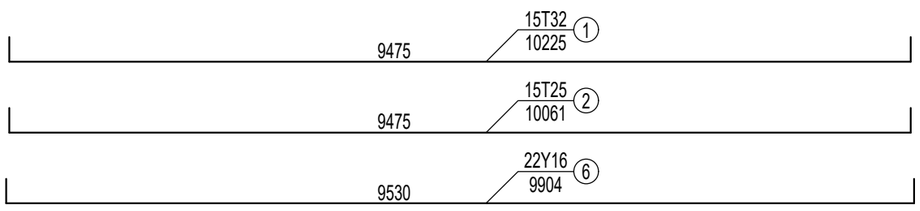


1/2 SECTION E-E 1:50



1/2 SECTION F-F 1:50





REINFORCEMENT SCHEDULE

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 32	10225	15
2	T 25	10061	15
3	T 20	2709	128
4	Y 16	2102	30
5	Y 16	2129	128
6	Y 16	9904	22
7	Y 16	2656	22
8	Y 25	2337	20
MESH	R 12	23.16m^2	

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. FOR PILE REINFORCEMENT DETAILS, PLEASE REFER TO NEP/CD/RFD/BR/FD/720001 DIA. 2.0m PILE REINFORCEMENT DETAILS IN VOL.3 BOOK 3.

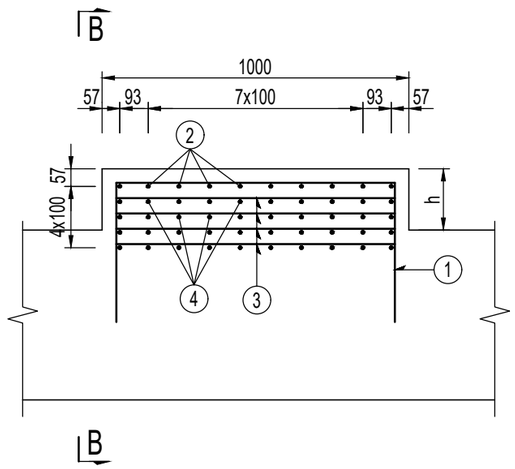
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 PILE CAP REINFORCEMENT DETAILS	DWG. NO. NEP/CD/SEC1/BR/A8L01/430001-E DATE AUG. 2021

APPROVED

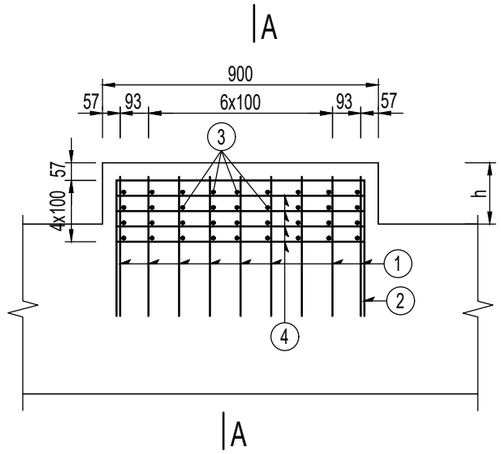
CHECKED

DESIGNED

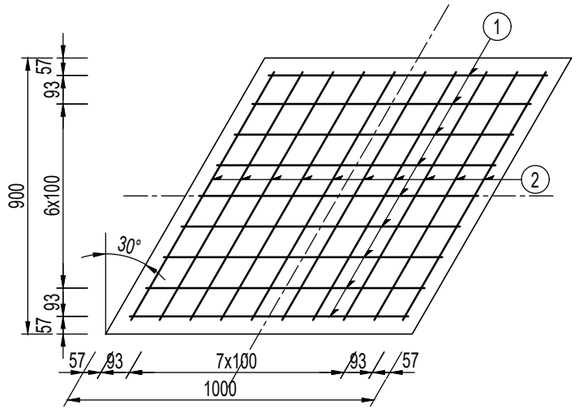
SECTION A-A 1:20

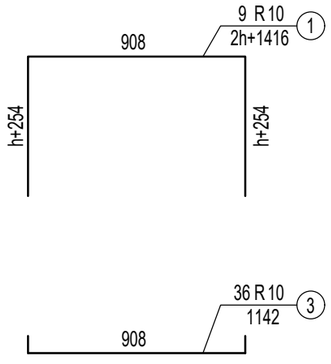


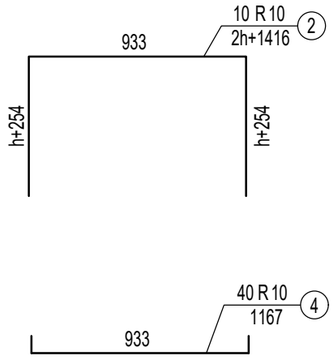
SECTION B-B 1:20



PLAN 1:20







REINFORCEMENT SCHEDULE (FOR SINGLE BEARING PLINTH)

BAR MARK	DIA.(mm)	LENGTH (mm)	NUMBER
1	R10	2h+1416	9
2	R10	2h+1441	10
3	R10	1142	36
4	R10	1167	40

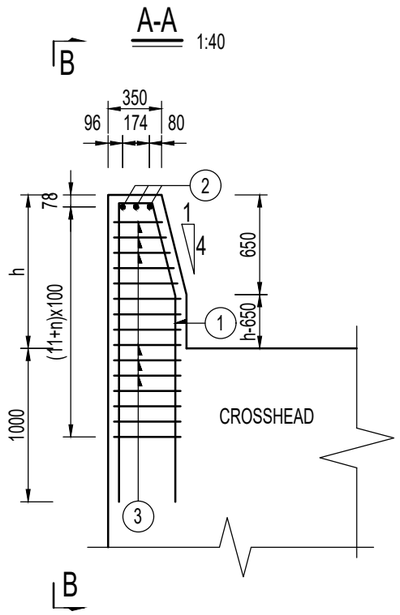
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE PARAMETER h REPRESENTS THE HEIGHT OF BEARING PLINTHS, PLEASE REFER TO NEP/CD/SEC1/BR/A8L01/400001-E PIER AND FOUNDATION LAYOUT PLAN.

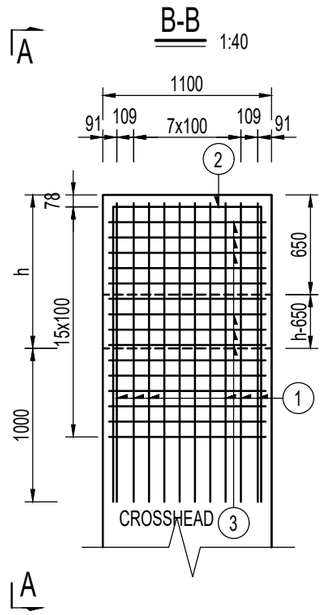
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 BEARING PLINTH REINFORCEMENT DETAILS	DWG. NO.	NEP/CD/SEC1/BR/A8L01/440001-E
			DATE	AUG. 2021

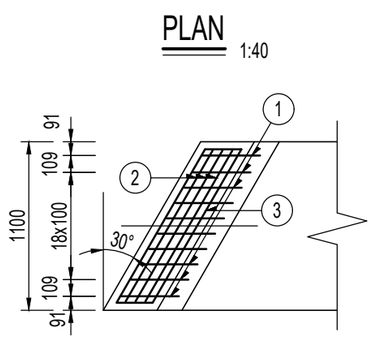
APPROVED

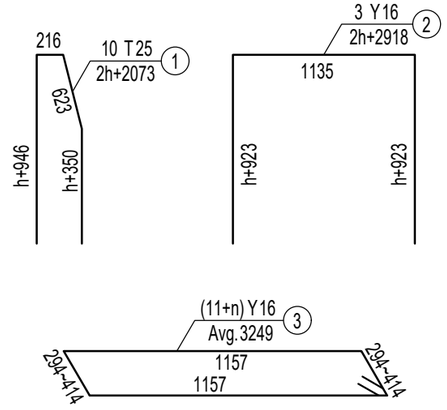
CHECKED

DESIGNED









REINFORCEMENT SCHEDULE (FOR RB1)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 25	3731	10
2	Y 16	4576	3
3	Y 16	Avg. 3249	13

REINFORCEMENT SCHEDULE (FOR RB2)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 25	4535	10
2	Y 16	5380	3
3	Y 16	Avg. 3249	17

REINFORCEMENT SCHEDULE (FOR RB3)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 25	3435	10
2	Y 16	4280	3
3	Y 16	Avg. 3249	11

REINFORCEMENT SCHEDULE (FOR RB4)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 25	4135	10
2	Y 16	4980	3
3	Y 16	Avg. 3249	15

PARAMETERS TABLE

NO.	h(mm)	n
RB1	830	2
RB2	1200	6
RB3	650	0
RB4	1000	4

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. EVERY REINFORCEMENT SCHEDULE IN THIS DRAWING IS FOR SINGLE RETAINING BLOCK.

KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 RETAINING BLOCK REINFORCEMENT DETAILS	DWG. NO.	NEP/CD/SEC1/BR/A8L01/450001-E
			DATE	AUG. 2021

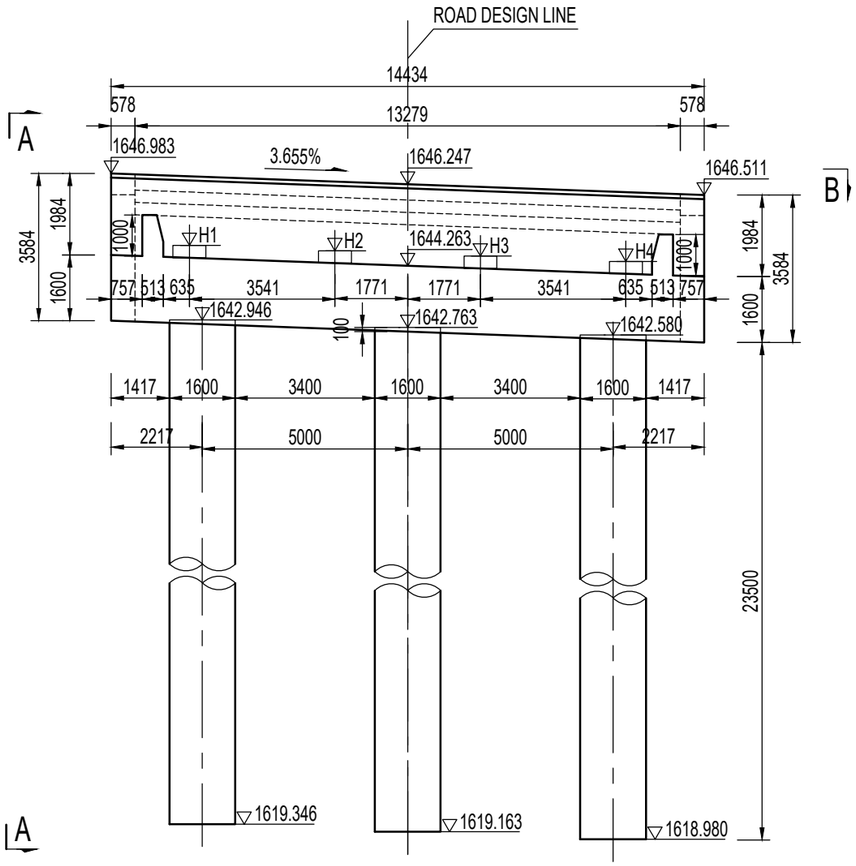
APPROVED

CHECKED

DESIGNED

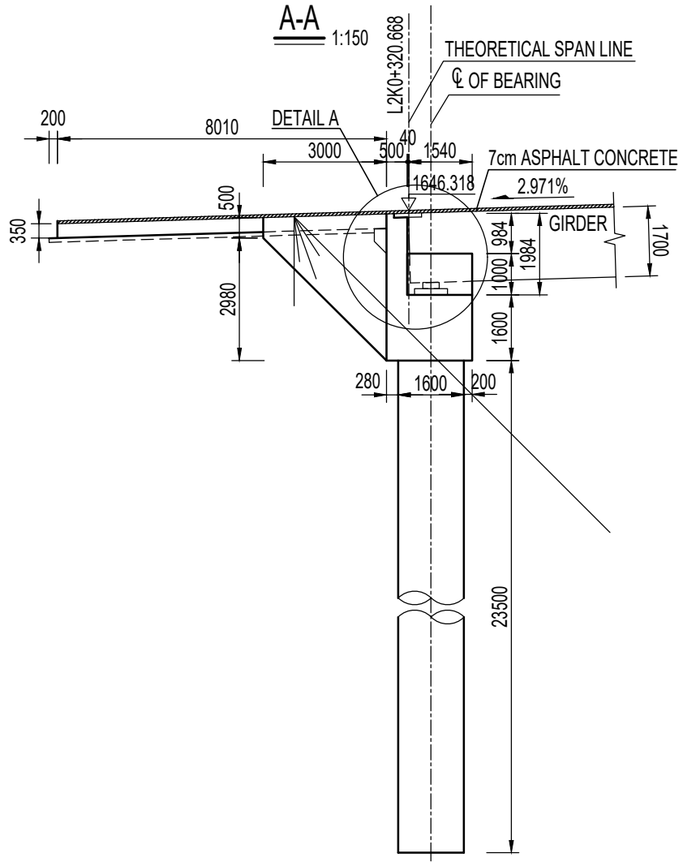
ELEVATION

1:150



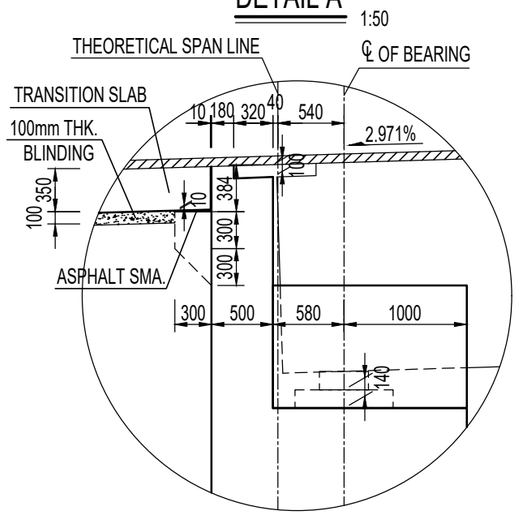
A-A

1:150



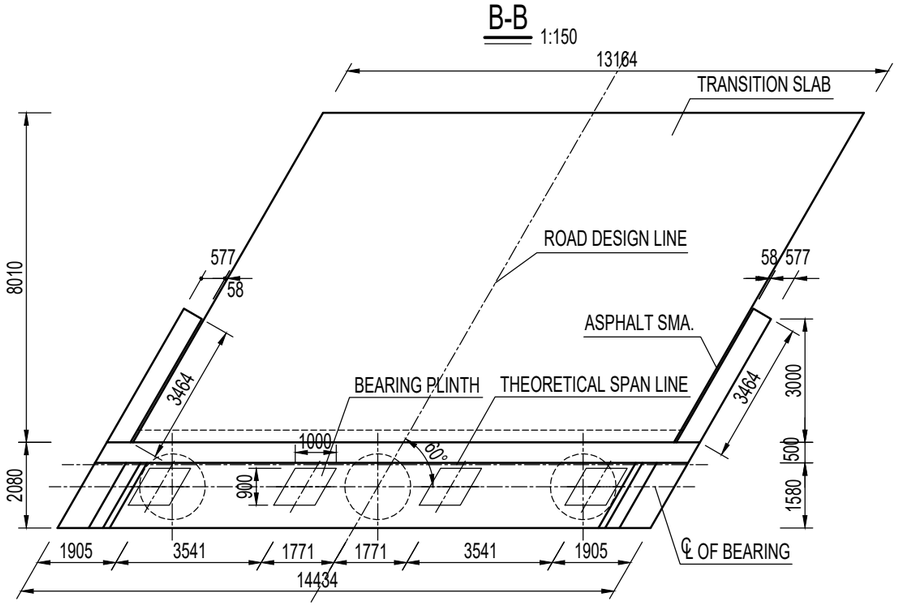
DETAIL A

1:50



B-B

1:150



BEARING PLINTH ELEVATION SCHEDULE

ABUT. No.	H1	H2	H3	H4
A0	1644.598	1644.471	1644.342	1644.212

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT FOR THE ELEVATION IN METRES.
2. THIS DRAWING IS APPLICABLE FOR ABUTMENT A0 AT CHAINAGE A8LK0+320.668.
3. BEARING TYPE IS GBZY500x110(CR), FOR DETAILS PLEASE REFER TO NEP/CD/SEC1/BR/A8L01/670001-E BEARING PLINTH AND LEVELING STEEL PLATE.
4. REINFORCEMENT DETAILS OF BEARING PLINTH REFER TO NEP/CD/RFD/BR/PI/530002.

KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT LAYOUT & DIMENSION DETAILS, SHEET 1/2	DWG. NO. DATE	NEP/CD/SEC1/BR/A8L01/800001-E AUG. 2021

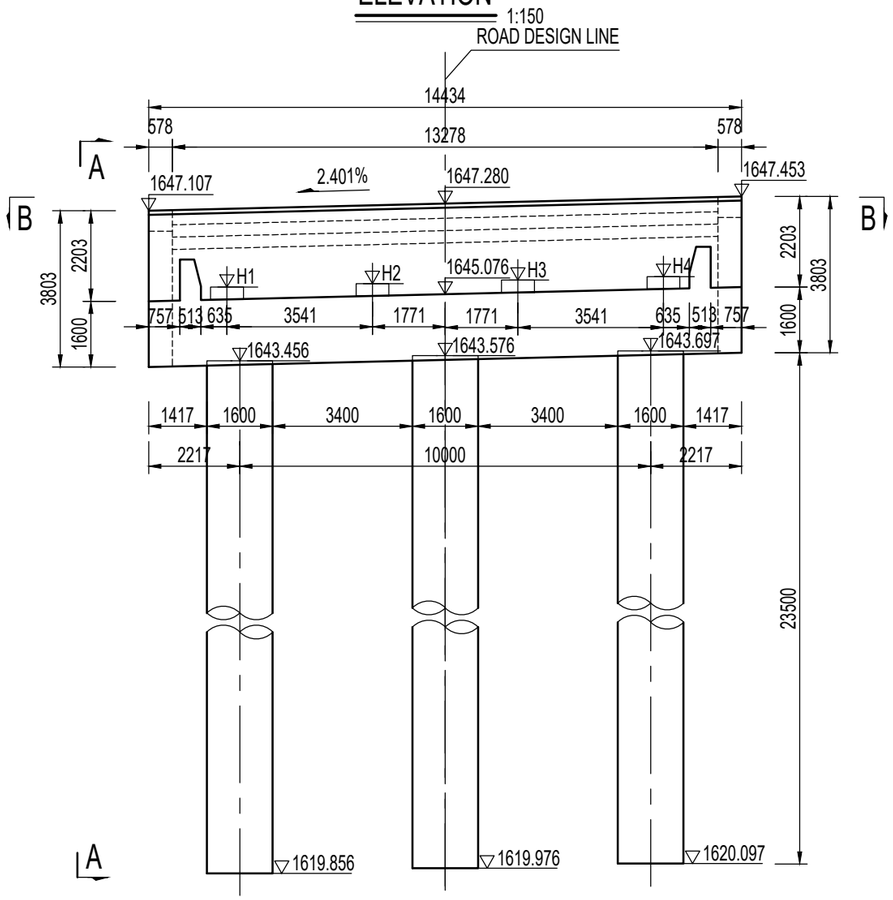
APPROVED

CHECKED

DESIGNED

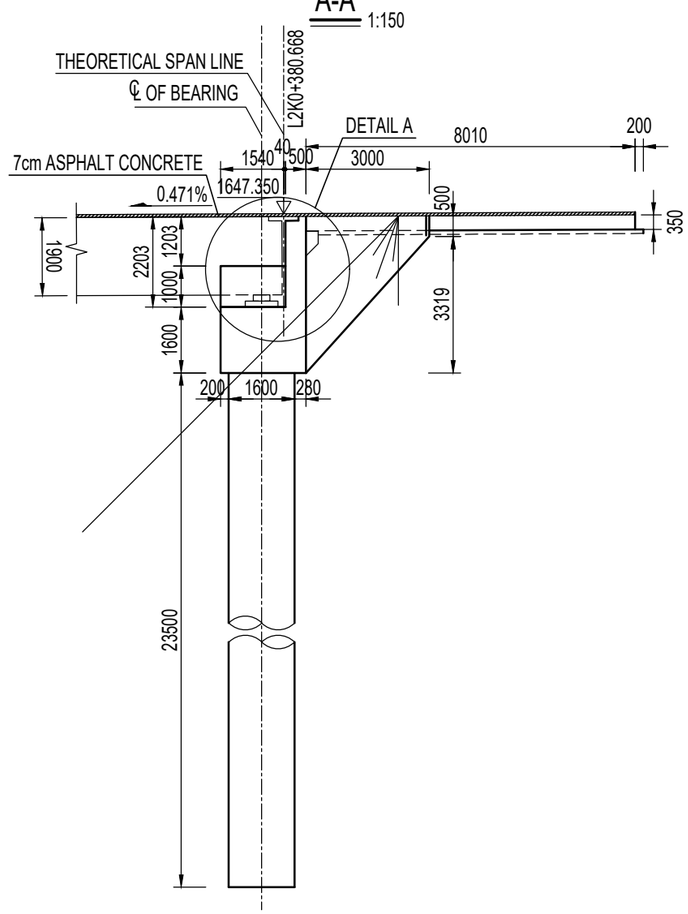
ELEVATION

1:150



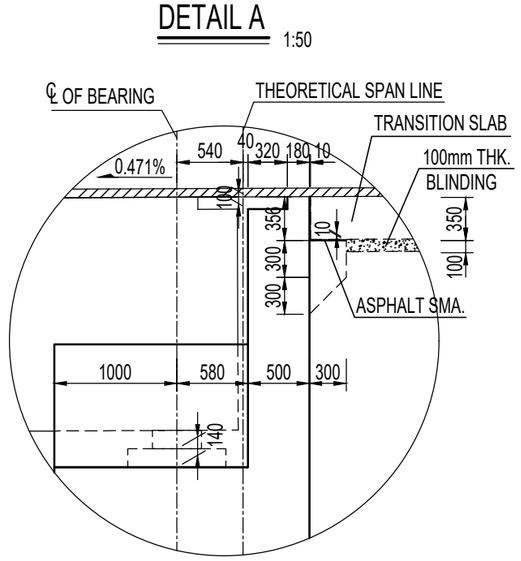
A-A

1:150



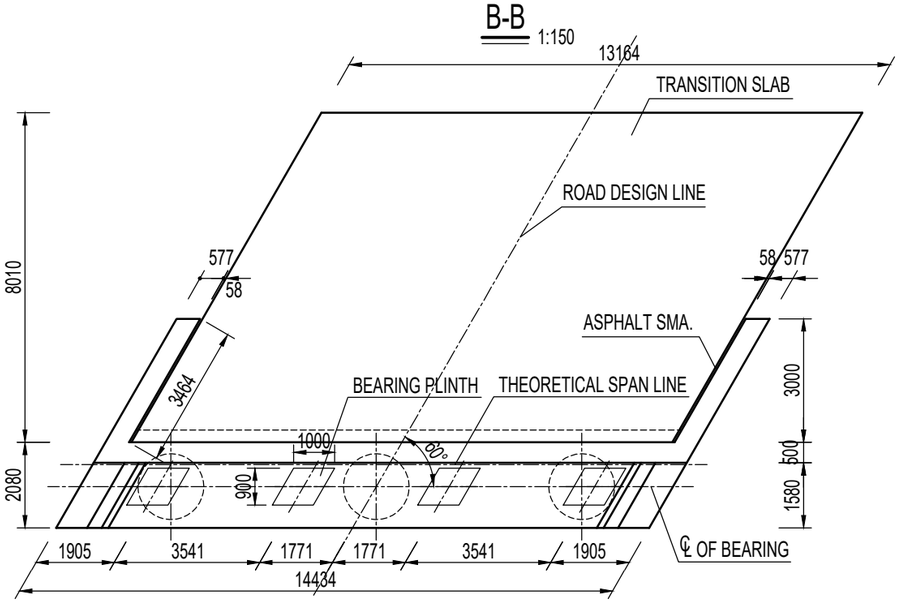
DETAIL A

1:50



B-B

1:150



BEARING PLINTH ELEVATION SCHEDULE

ABUT. No.	H1	H2	H3	H4
A1	1645.087	1645.174	1645.259	1645.343

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT FOR THE ELEVATION IN METRES.
2. THIS DRAWING IS APPLICABLE FOR ABUTMENT A1 AT CHAINAGE A8LK0+380.668.
3. BEARING TYPE IS GBZY550x110(CR), FOR DETAILS PLEASE REFER TO NEP/CD/SEC1/BR/A8L01/670001-E BEARING PLINTH AND LEVELING STEEL PLATE.
4. REINFORCEMENT DETAILS OF BEARING PLINTH REFER TO NEP/CD/RFD/BR/PI/530002.

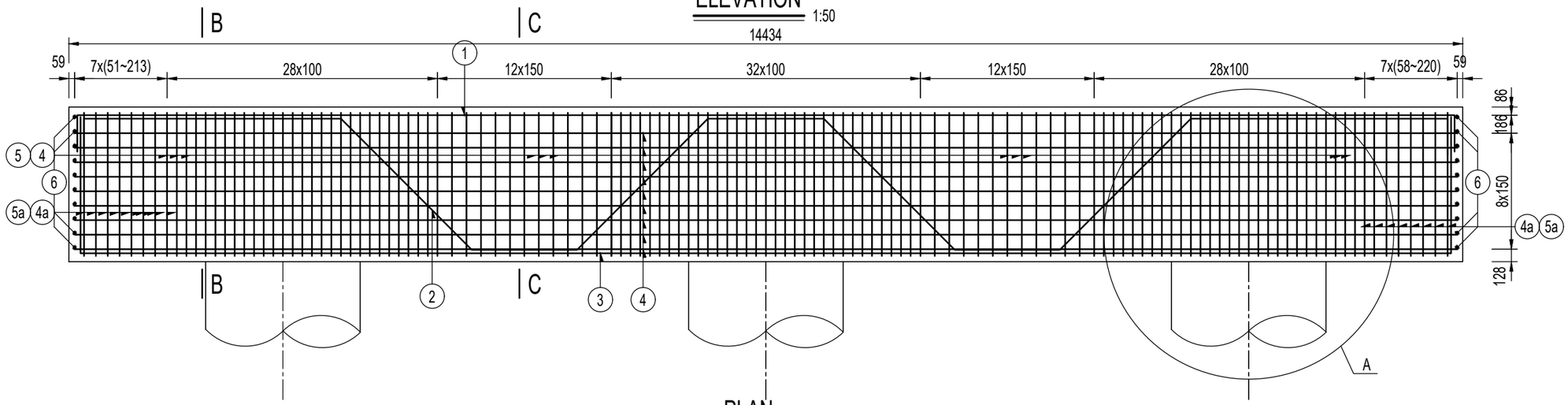
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT LAYOUT & DIMENSION DETAILS, SHEET 2/2	DWG. NO. DATE	NEP/CD/SEC1/BR/A8L01/800002-E AUG. 2021

APPROVED

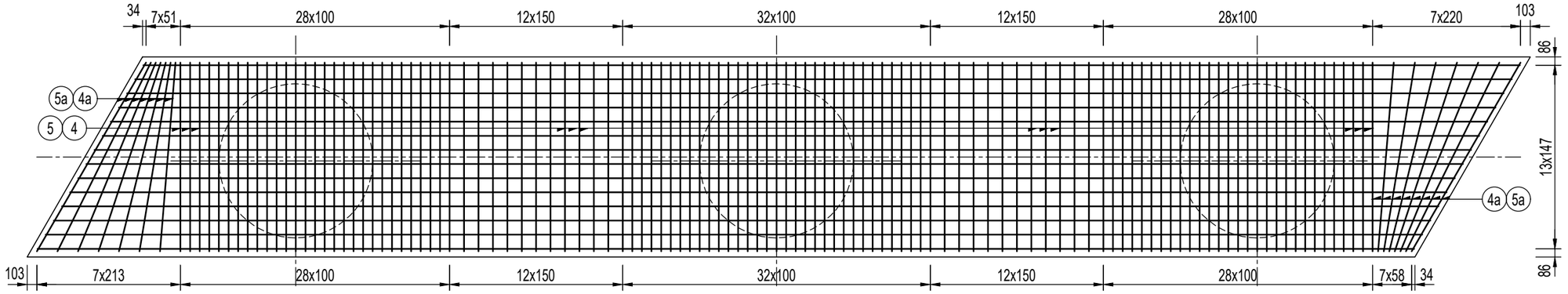
CHECKED

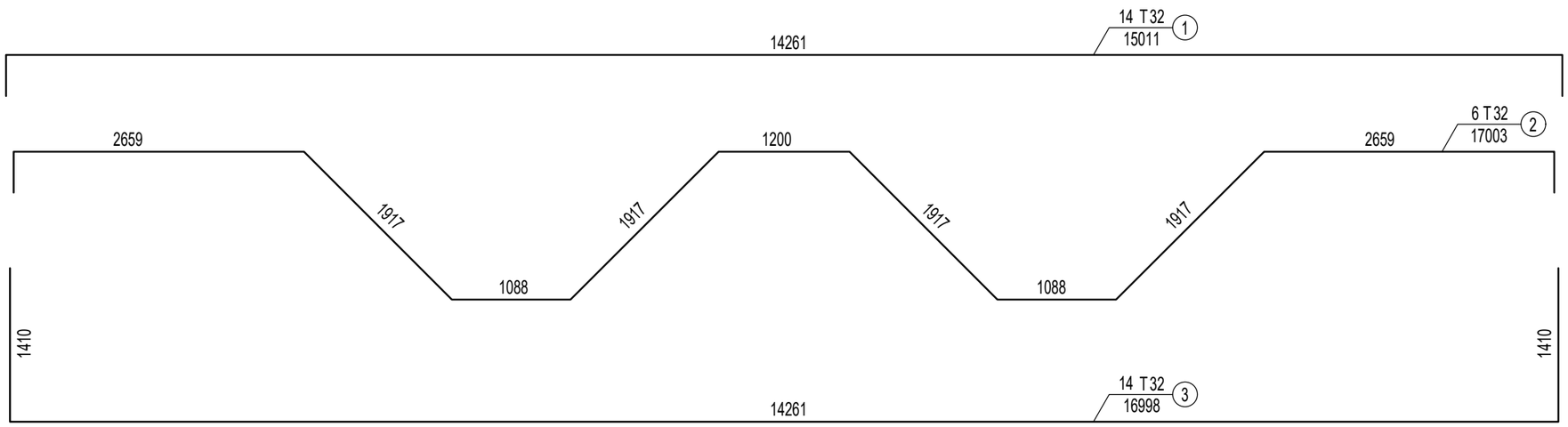
DESIGNED

ELEVATION 1:50



PLAN 1:50





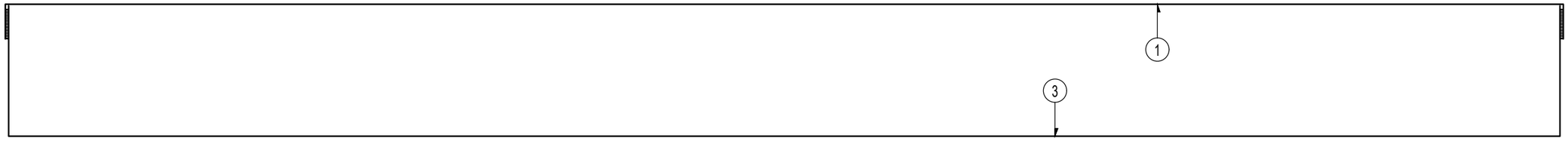
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT CROSSHEAD REINFORCEMENT DETAILS, SHEET 1/2	DWG. NO.	NEP/CD/SEC1/BR/A8L01/810001-E
			DATE	AUG. 2021

APPROVED

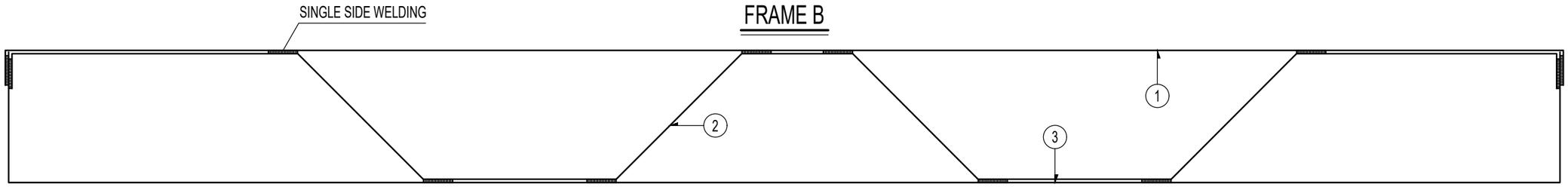
CHECKED

DESIGNED

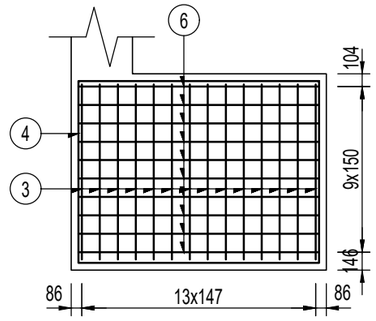
FRAME A



FRAME B

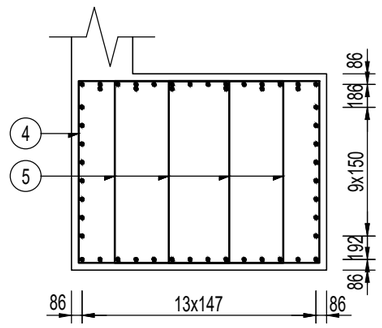


A-A 1:50



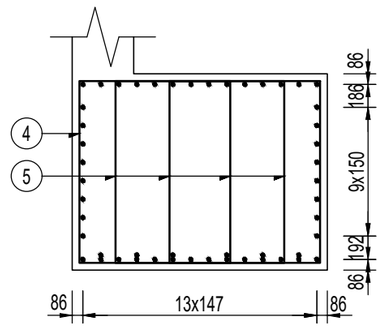
B-B 1:50

A B A B A B A A B A B A B A

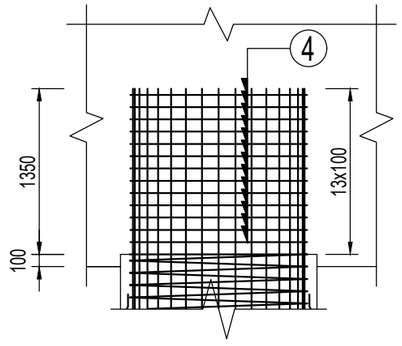


C-C 1:50

A B A B A B A A B A B A B A

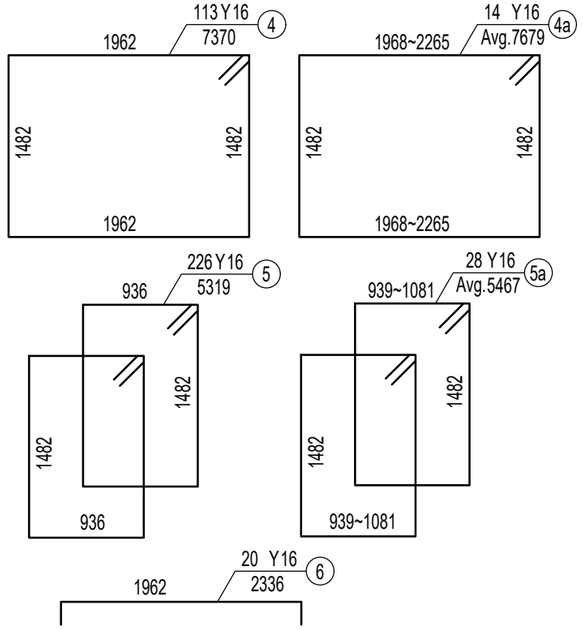


DETAIL A 1:50



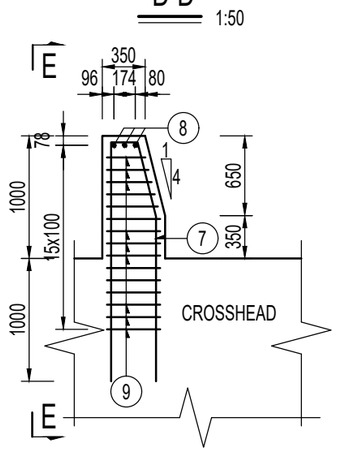
REINFORCEMENT SCHEDULE

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 32	15011	14
2	T 32	17003	6
3	T 32	16998	14
4	Y 16	7370	113
4a	Y 16	Avg. 7679	14
5	Y 16	5319	226
5a	Y 16	Avg. 5467	28
6	Y 16	2336	20
7	T 25	4071	42
8	Y 16	6069	6
9	Y 16	Avg. 5529	30

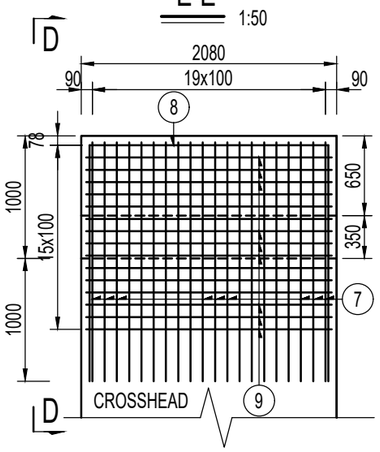


RETAINING BLOCK REINFORCEMENT DETAILS 1:50

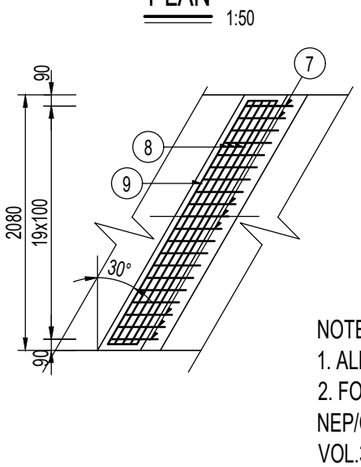
D-D 1:50

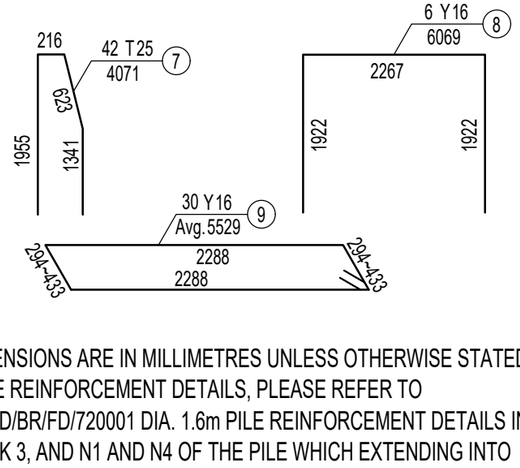


E-E 1:50



PLAN 1:50





NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. FOR PILE REINFORCEMENT DETAILS, PLEASE REFER TO NEP/CD/RFD/BR/FD/720001 DIA. 1.6m PILE REINFORCEMENT DETAILS IN VOL.3 BOOK 3, AND N1 AND N4 OF THE PILE WHICH EXTENDING INTO THE CROSSHEAD REFER TO DETAIL A.

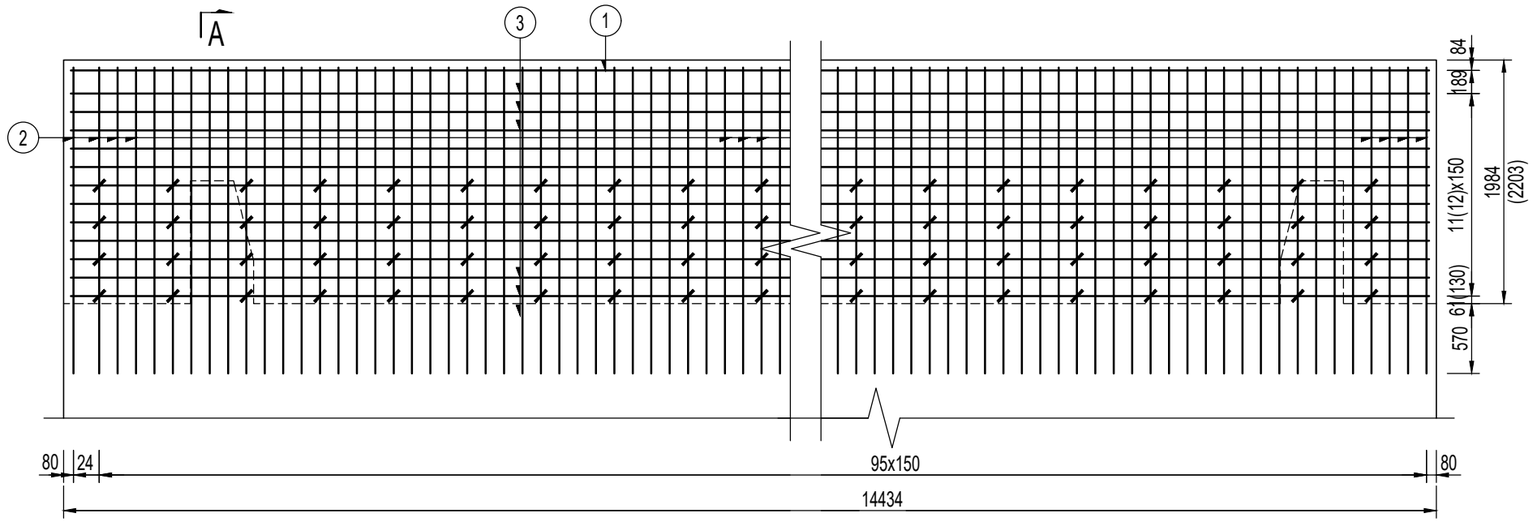
KENHA KENYA NATIONAL HIGHWAYS AUTHORITY CRB CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT CROSSHEAD REINFORCEMENT DETAILS, SHEET 2/2	DWG. NO.	NEP/CD/SEC1/BR/A8L01/810002-E
			DATE	AUG. 2021

APPROVED

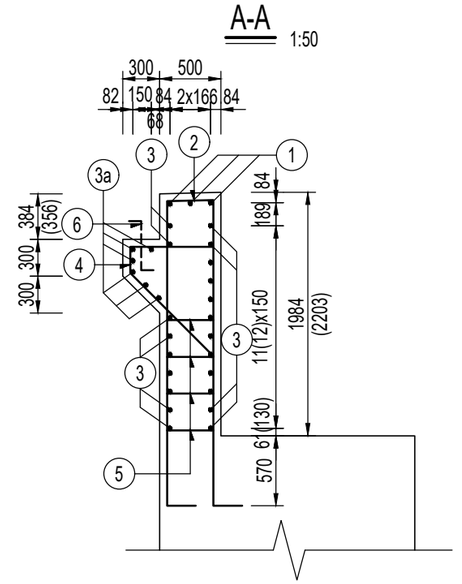
CHECKED

DESIGNED

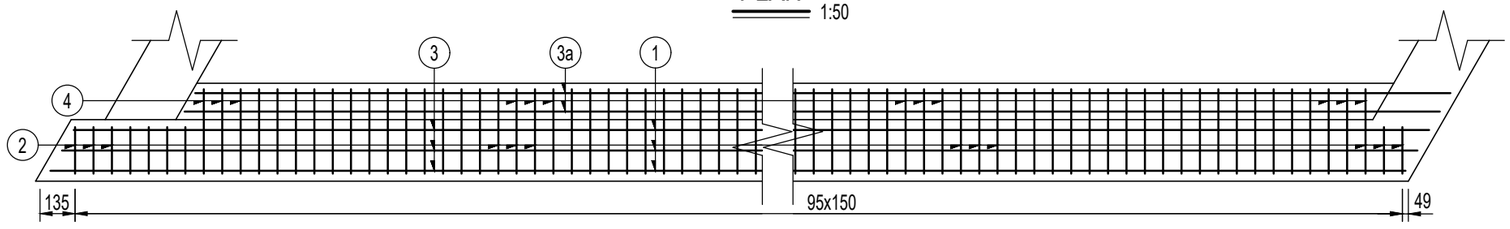
ELEVATION 1:50

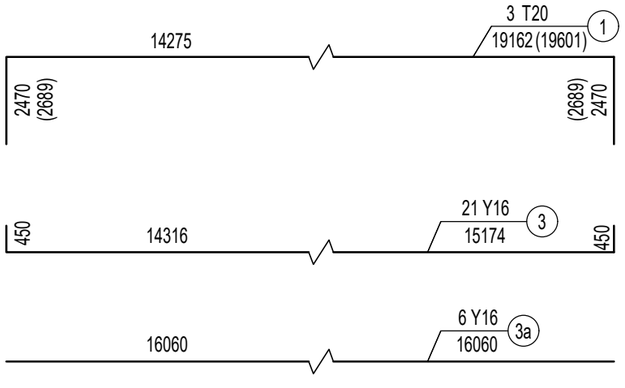


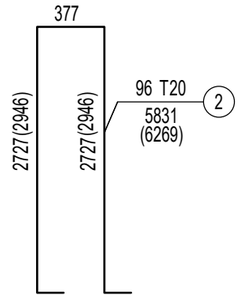
A-A 1:50

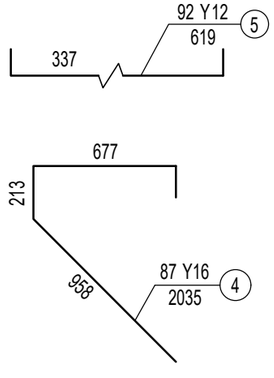


PLAN 1:50









REINFORCEMENT SCHEDULE
(FOR A0 BACK-WALL)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 20	19162	3
2	T 20	5831	96
3	Y 16	15174	21
3a	Y 16	16060	6
4	Y 16	2035	87
5	Y 12	619	92

REINFORCEMENT SCHEDULE
(FOR A1 BACK-WALL)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 20	19601	3
2	T 20	6269	96
3	Y 16	15174	23
3a	Y 16	16060	6
4	Y 16	2035	87
5	Y 12	619	92

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. NO.6 ANCHOR BAR IS COUNTED IN TRANSITION SLAB, REFERS TO <AUBTMENT TRANSITION SLAB REINFORCEMENT DETAILS>.
3. THE VALUES INSIDE THE BRACKETS APPLIES TO A1, AND THE VALUES OUTSIDE THE BRACKETS APPLIES TO A0.

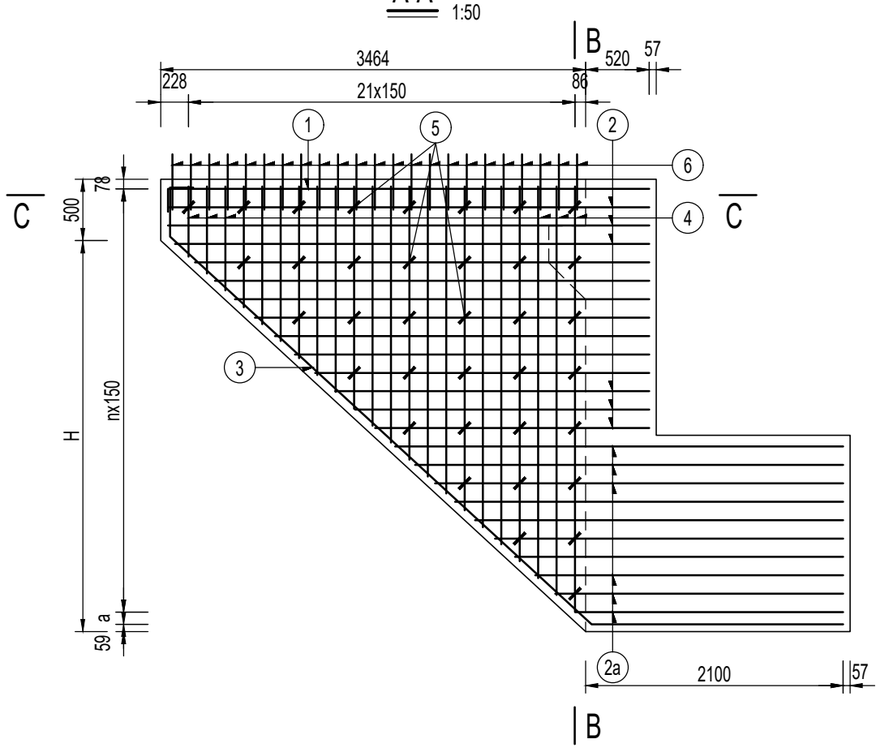
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT BACK-WALL REINFORCEMENT DETAILS	DWG. NO.	NEP/CD/SEC1/BR/A8L01/820001-E
			DATE	AUG. 2021

APPROVED

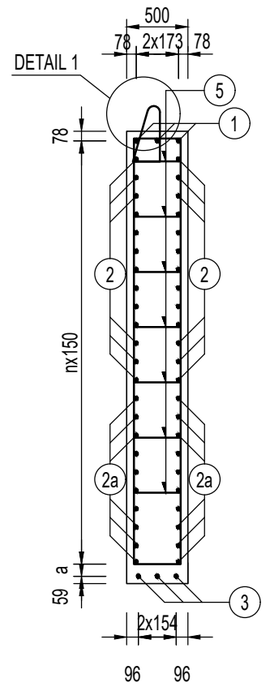
CHECKED

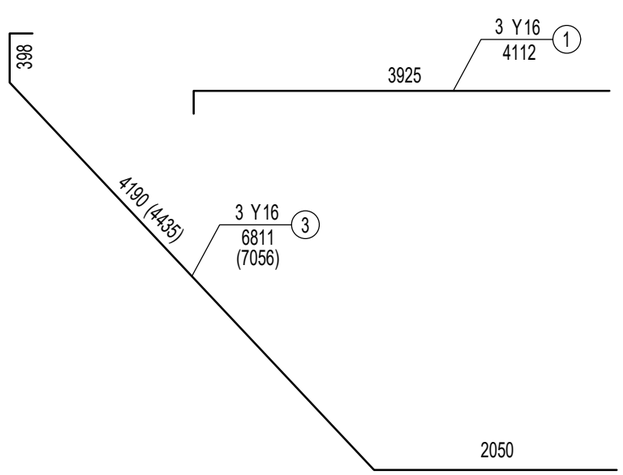
DESIGNED

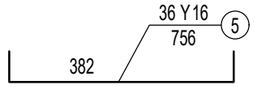
A-A 1:50

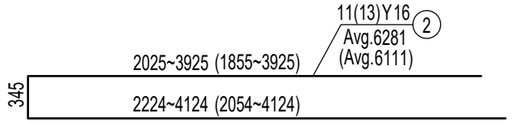


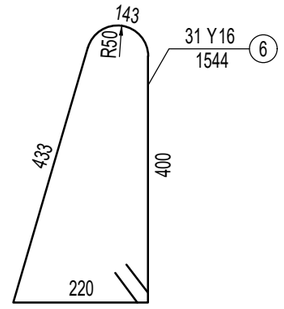
B-B 1:50

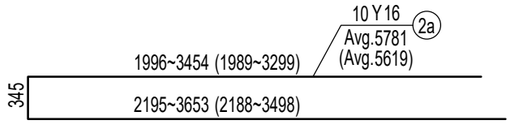




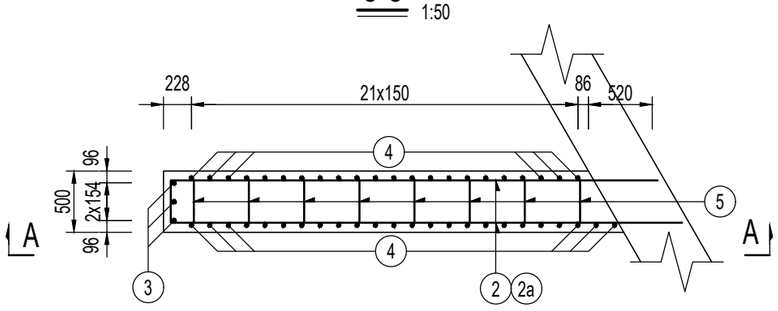




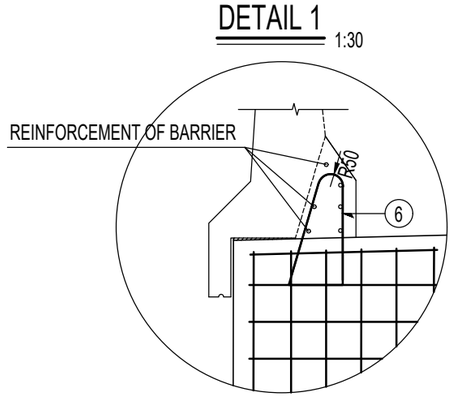




C-C 1:50



DETAIL 1 1:30



PARAMETERS TABLE

NO.	H(mm)	n	a(mm)
A0	2980	21	252
A1	3319	23	291

REINFORCEMENT SCHEDULE
(FOR A0 WING WALL)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	Y 16	4112	3
2	Y 16	Avg. 6281	11
2a	Y 16	Avg. 5781	10
3	Y 16	6811	3
4	Y 16	Avg. 5187	22
5	Y 16	756	36
6	Y 16	1575	22

REINFORCEMENT SCHEDULE
(FOR A1 WING WALL)

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	Y 16	4112	3
2	Y 16	Avg. 6111	13
2a	Y 16	Avg. 5619	10
3	Y 16	7056	3
4	Y 16	Avg. 5504	22
5	Y 16	756	36
6	Y 16	1575	22

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE VALUES INSIDE THE BRACKETS APPLIES TO A1, AND THE VALUES OUTSIDE THE BRACKETS APPLIES TO A0.

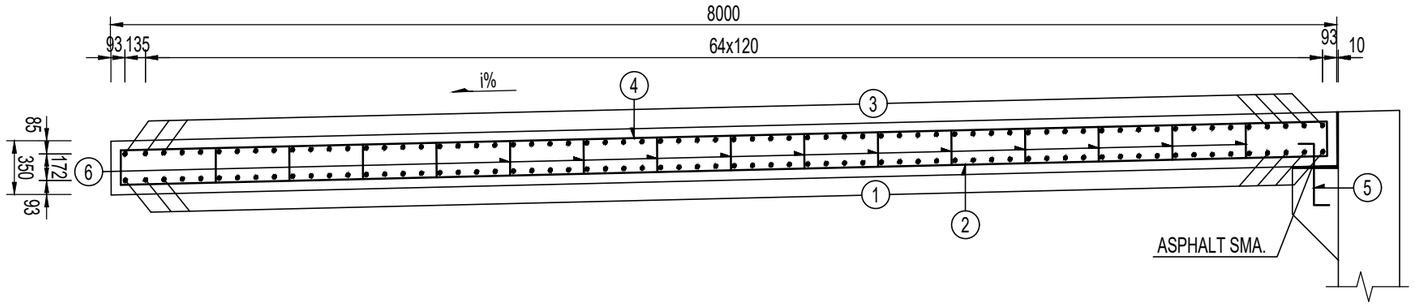
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT WING WALL REINFORCEMENT DETAILS	DWG. NO. NEP/CD/SEC1/BR/A8L01/830001-E DATE AUG. 2021

APPROVED

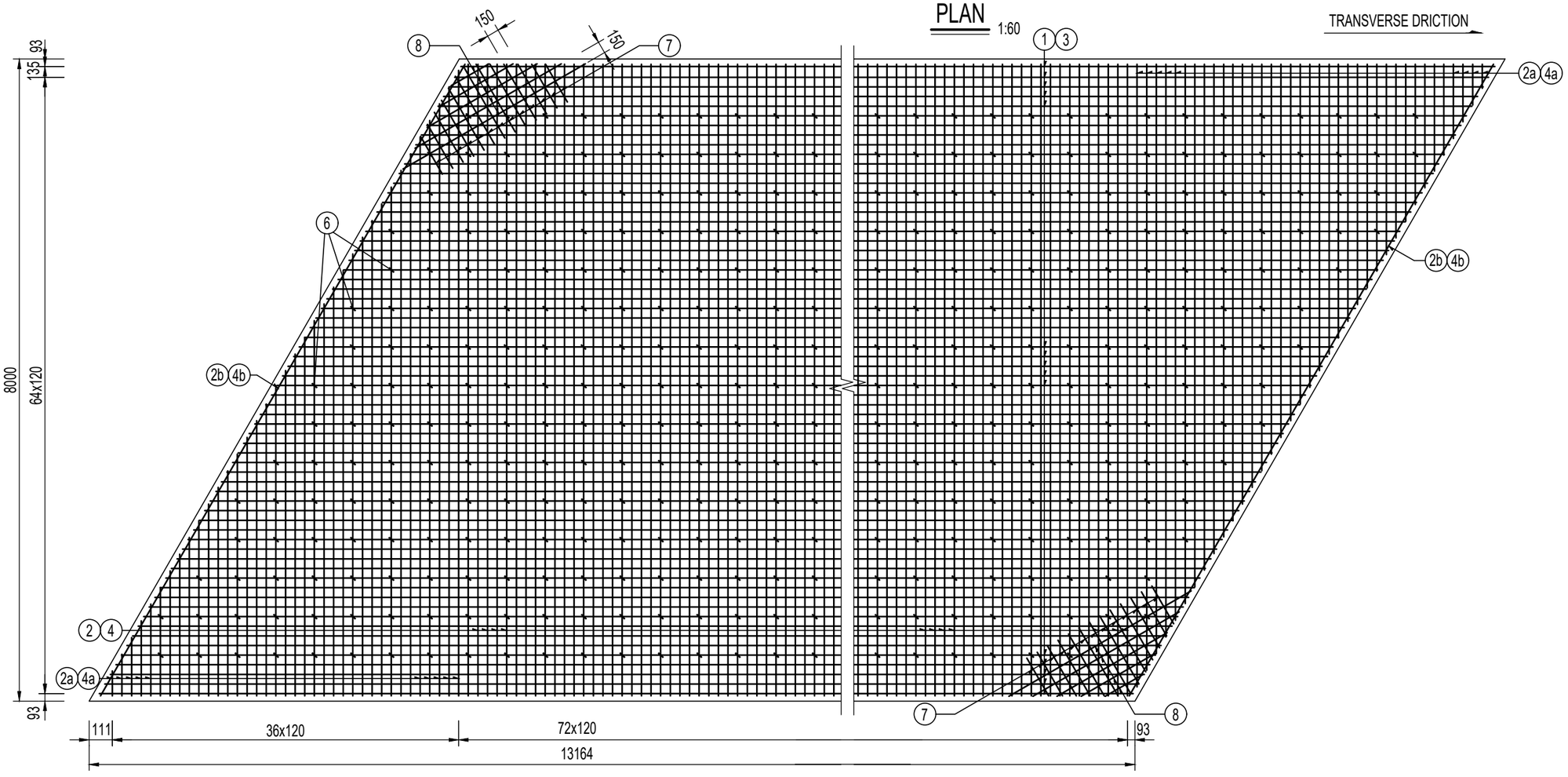
CHECKED

DESIGNED

ELEVATION 1:40



PLAN 1:60



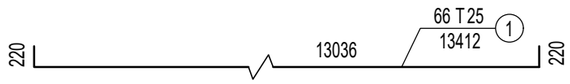
NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2.N5 STEEL BARS ARE SLAB ANCHOR STEEL BARS WITH A HORIZONTAL DISTANCE OF 150mm.

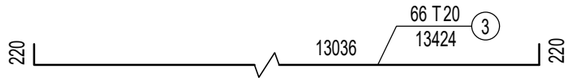
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT TRANSITION SLAB REINFORCEMENT DETAILS, SHEET 1/2	DWG. NO. DATE	NEP/CD/SEC1/BR/A8L01/890001-E AUG. 2021

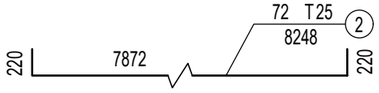
APPROVED

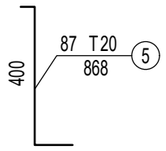
CHECKED

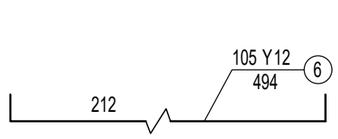
DESIGNED

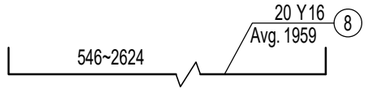












REINFORCEMENT SCHEDULE

BAR MARK	DIA.(mm)	LENGTH(mm)	NUMBER
1	T 25	13412	66
2	T 25	8248	72
2a	T 25	Avg. 4407	74
2b	T 25	9465	2
3	T 20	13424	66
4	Y 20	8260	72
4a	Y 20	Avg. 4419	74
4b	Y 20	9477	2
5	Y 20	868	87
6	Y 12	494	105
7	Y 16	Avg. 1160	52
8	Y 16	Avg. 1959	20

NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2.N5 STEEL BARS ARE SLAB ANCHOR STEEL BARS WITH A HORIZONTAL DISTANCE OF 150mm.

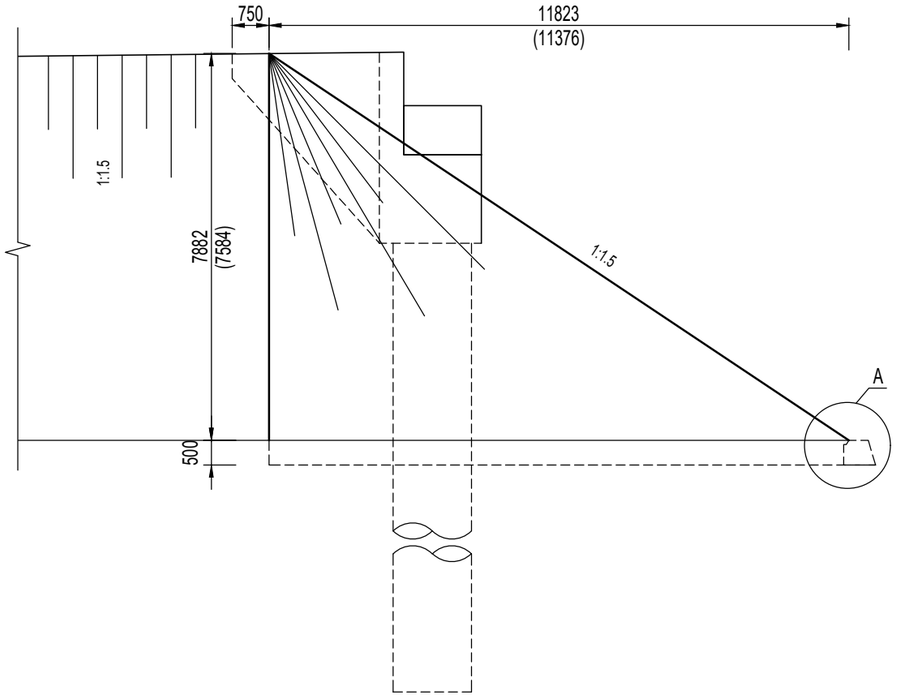
KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT TRANSITION SLAB REINFORCEMENT DETAILS, SHEET 2/2	DWG. NO.	NEP/CD/SEC1/BR/A8L01/890002-E
			DATE	AUG. 2021

APPROVED

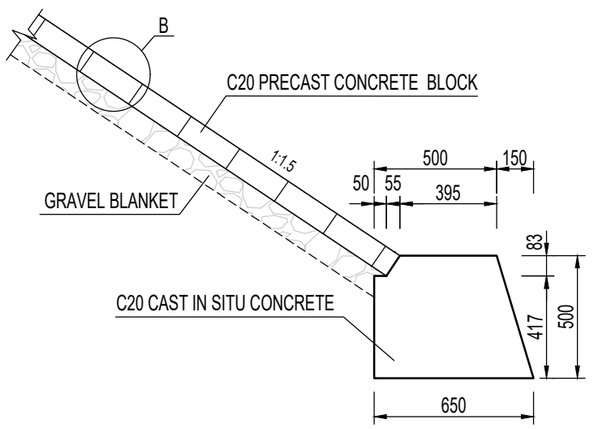
CHECKED

DESIGNED

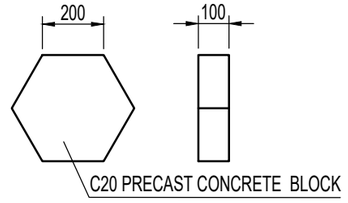
A-A
1:125



DETAIL A
1:25

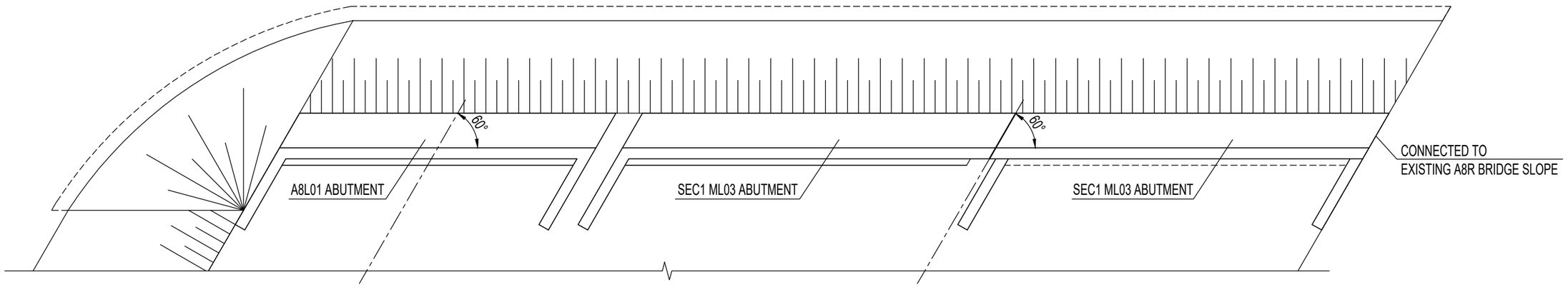


DETAIL B
1:20



A

PLAN
1:200



A

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT FOR THE ELEVATION IN METRES.
2. THE VALUES INSIDE THE BRACKETS APPLIES TO A1, AND THE VALUES OUTSIDE THE BRACKETS APPLIES TO A0.

KENYA NATIONAL HIGHWAYS AUTHORITY CHINA ROAD AND BRIDGE CORPORATION	CONSTRUCTION DRAWINGS OF NAIROBI EXPRESSWAY PROJECT	SEC1(L2K0+320.668- L2K0+380.668) ROAD RECONSTRUCTION A8L2 - A8L01 ABUTMENT PROTECTION LAYOUT & DIMENSION DETAILS	DWG. NO.	NEP/CD/SEC1/BR/A8L01/891001-E
			DATE	AUG. 2021