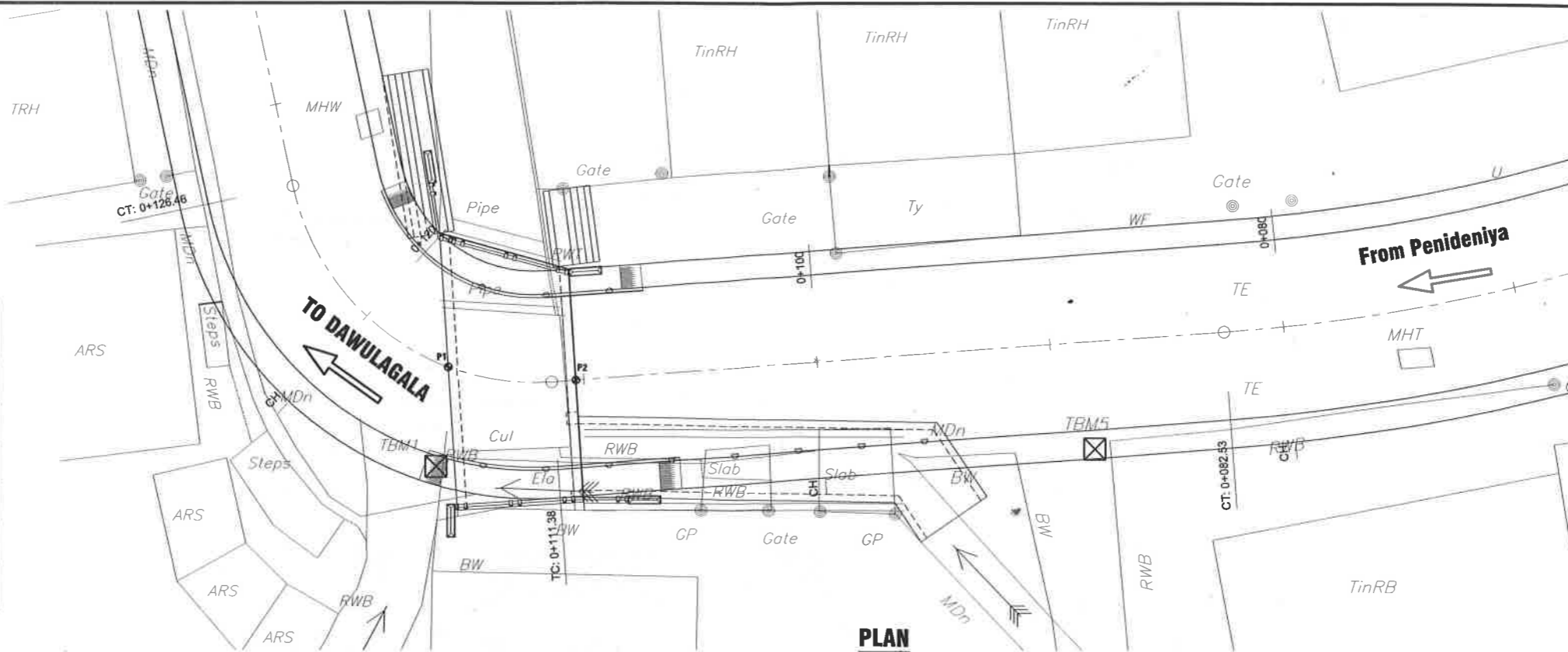
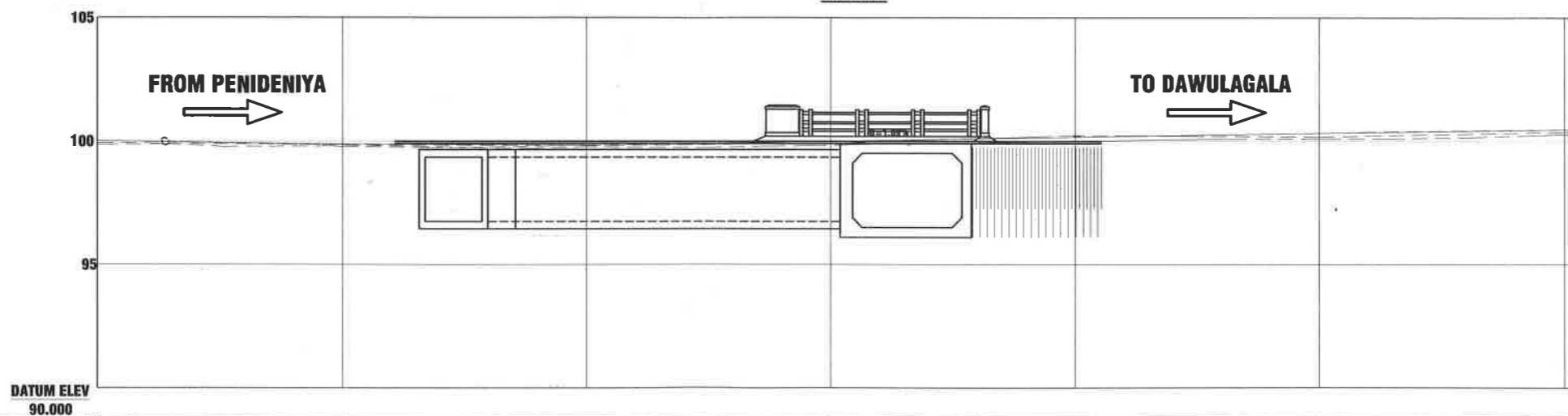


LEGEND	
	CENTER LINE
	EDGE OF CARRIAGEWAY
	EXISTING GROUND PROFILE
	FLOW DIRECTION
	CONTROL POINTS
	CONTROL POINTS AND CENTER LINE COORDINATES



TBM & Setting Out Co-ordinates			
TBM No.	Northing(m)	Easting(m)	Elevation(m)
TBM-1	1000.00	1000.00	100.00
TBM-2	1014.00	1059.05	100.36
TBM-3	1049.58	990.08	
P1	1004.17	1000.52	
P2	1003.62	1005.96	

Station	Northing	Easting
0+000.00	1,017.905	1,113.617
0+005.00	1,019.114	1,108.765
0+010.00	1,020.310	1,103.911
0+015.00	1,021.463	1,099.047
0+020.00	1,022.283	1,094.114
0+025.00	1,023.157	1,089.191
0+030.00	1,023.852	1,084.244
0+035.00	1,023.667	1,079.269
0+040.00	1,022.068	1,074.552
0+045.00	1,019.606	1,070.200
0+050.00	1,017.236	1,065.798
0+055.00	1,014.971	1,061.344
0+060.00	1,013.374	1,056.619
0+065.00	1,012.115	1,051.780
0+070.00	1,010.842	1,046.945
0+075.00	1,009.763	1,042.067
0+080.00	1,008.864	1,037.148
0+085.00	1,008.371	1,032.178
0+090.00	1,008.018	1,027.191
0+095.00	1,007.669	1,022.203
0+100.00	1,007.320	1,017.215
0+105.00	1,006.785	1,012.245
0+110.00	1,006.116	1,007.290
0+115.00	1,006.184	1,002.300
0+120.00	1,008.641	998.406
0+125.00	1,013.342	996.758
0+130.00	1,018.241	995.775
0+135.00	1,023.182	995.006
0+140.00	1,028.097	994.094
0+145.00	1,032.997	993.100
0+150.00	1,037.903	992.134
0+155.00	1,042.854	991.452
0+160.00	1,047.721	990.345
0+165.00	1,052.703	990.123
0+170.00	1,057.700	990.206
0+175.00	1,062.639	990.988
0+180.00	1,067.592	991.669
0+185.00	1,072.556	992.257
0+190.00	1,077.532	991.899
0+195.00	1,082.289	990.407
0+200.00	1,086.473	987.751
0+205.00	1,089.867	984.117
0+210.00	1,091.527	979.419
0+215.00	1,093.024	974.650
0+220.00	1,093.964	969.769
0+225.00	1,093.938	964.790
0+230.00	1,093.539	959.807
0+235.00	1,093.251	954.815
0+240.00	1,092.629	949.854
0+245.00	1,091.884	944.912
0+250.00	1,090.958	939.999
0+251.99	1,090.589	938.044



CHAINAGE	0+090	0+100	0+110	0+120	0+130	0+140
FINISHED GROUND LEVEL	99.873	99.865	99.992	100.160	100.319	100.476
EXISTING GROUND LEVEL	99.777	99.752	99.824	99.992	100.095	100.265
HORIZONTAL GEOMETRY	R=80.00 0+052.00-0+082.53		R=10.50 0+111.38-0+126.46			R=360.00 0+136.41-0+161.42
VERTICAL GEOMETRY	g=-1.77%		V.C.L.=25.00 K=7.22		g=1.69%	
SUPERELEVATION	LHS		LHS		LHS	

**LONGITUDINAL SECTION**  
SCALE 1:250

**RECONSTRUCTION OF BRIDGE NO 11/2 ON EMBILMEEGAMA - DAWULAGALA- PENIDENIYA ROAD.**

PLAN AND PROFILE

SCALE -

REV	DESCRIPTION	BY	DATE



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA  
MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT



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ROAD DEVELOPMENT AUTHORITY  
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SURVEYED & PLOTTED :

DESIGNED :  
K.A.S.B.KUMARAARACHCHI

DRAWN :  
U.B.R.R.K.BALASOORIYA

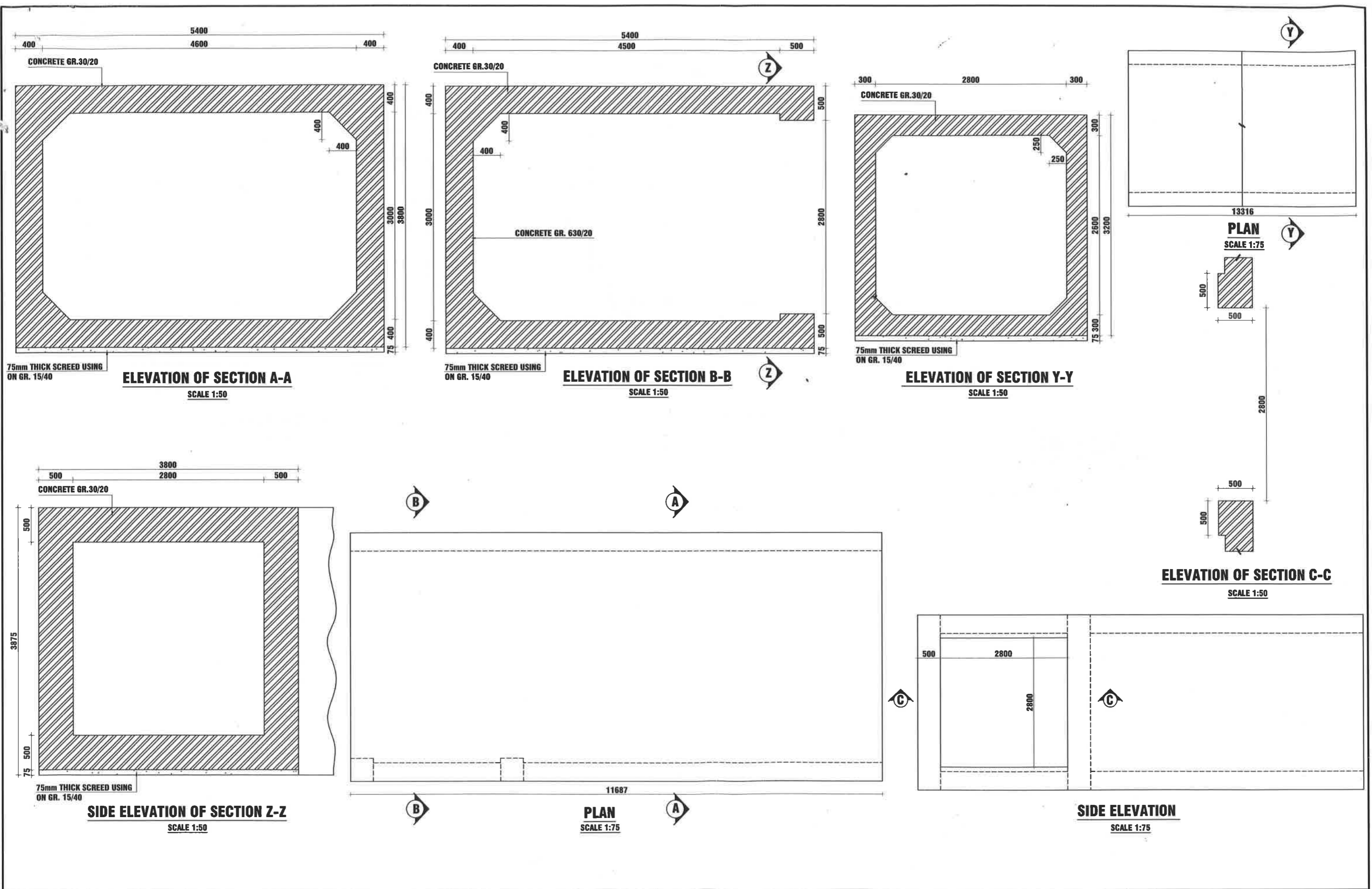
CHECKED :  
A.G.ARIYAWANSA

C.E. (DESIGN) :  
A.G.ARIYAWANSA

A.D.D.(DESIGN)  
L.V.S.WEERAKOON

DATE : 23/08/2018

DRG.No. : DD/D/CP/B/1018/1(6)



**RECONSTRUCTION OF BRIDGE NO 11/2 ON EMBILMEEGAMA - DAWULAGALA- PENIDENIYA ROAD.**

DETAILS OF BOX TYPE BRIDGE

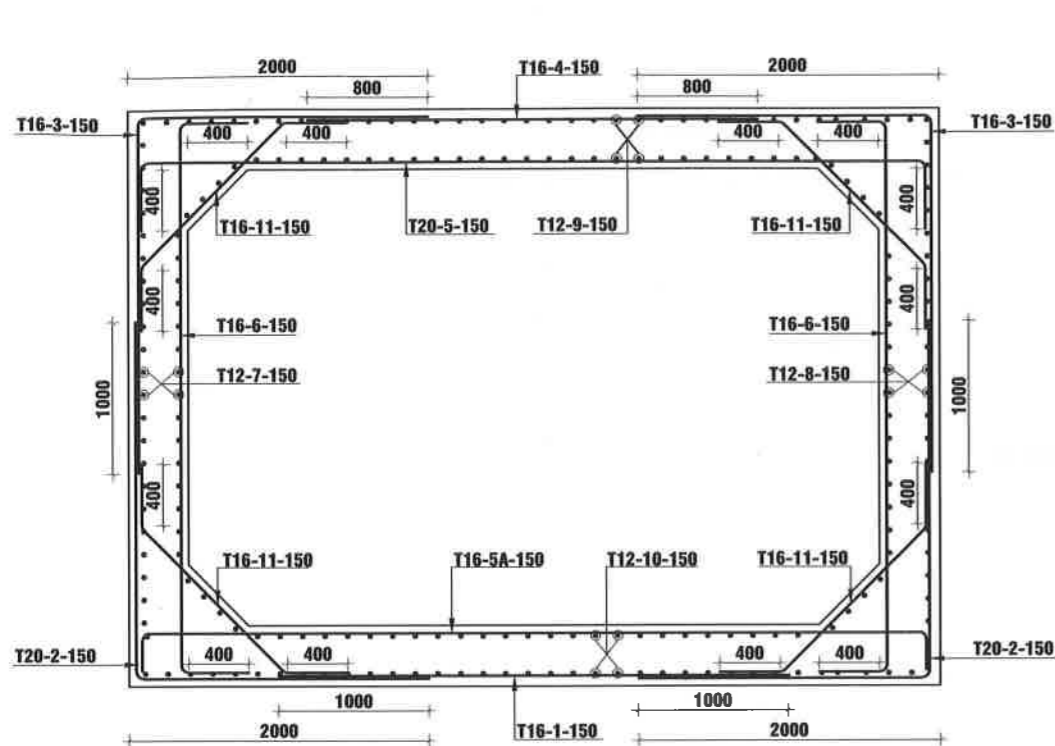
SCALE -

REV	DESCRIPTION	BY	DATE

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA  
MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT

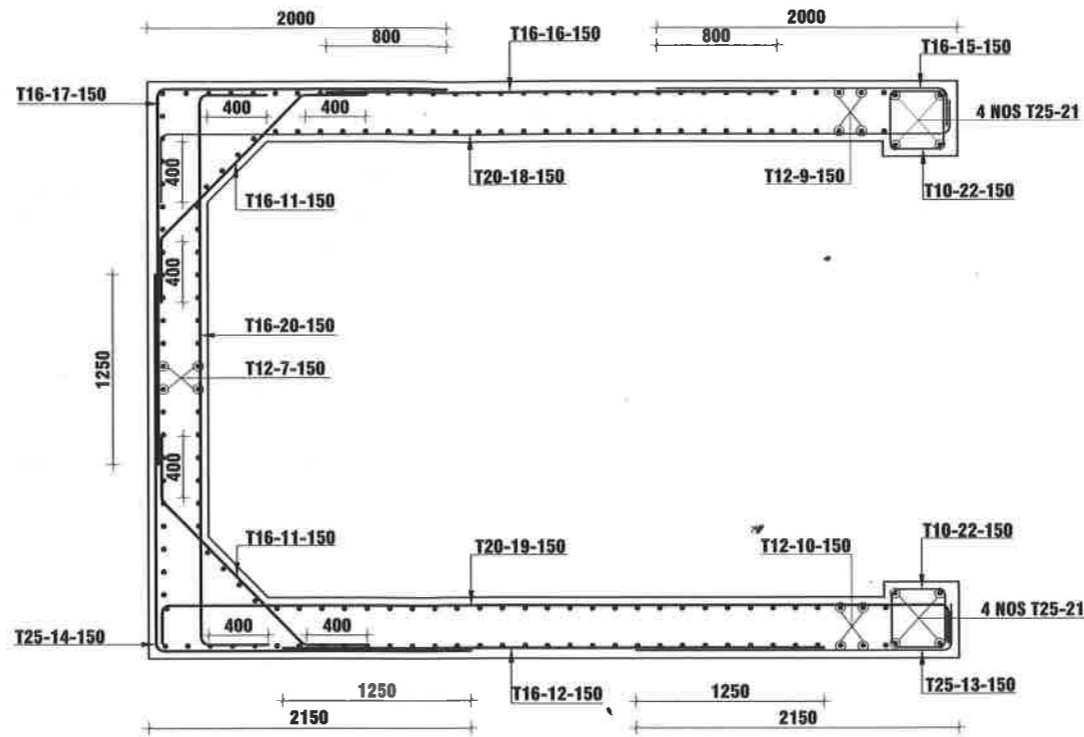
SURVEYED & PLOTTED :	DESIGNED : K.A.S.B.KUMARAARACHCHI	DRAWN : U.B.R.R.K.BALASOORIYA	CHECKED : A.G.ARIYAWANSA
C.E. (DESIGN) : A.G.ARIYAWANSA	A.D.D.(DESIGN) L.V.S.WEERAKOON	DATE : 23/08/2018	DRG.No. : DD/D/CP/CP/B/1018/2(6)

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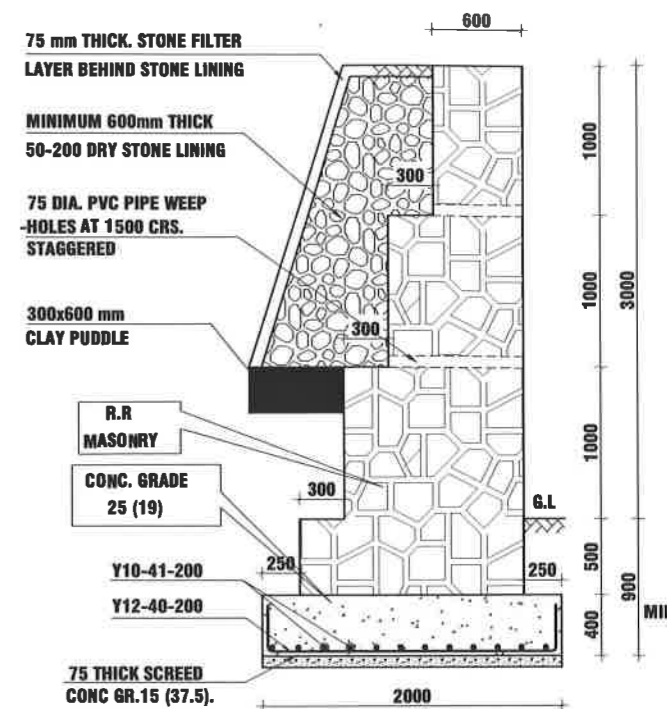
**R/F DETAILS OF SECTION A-A**

SCALE 1:50



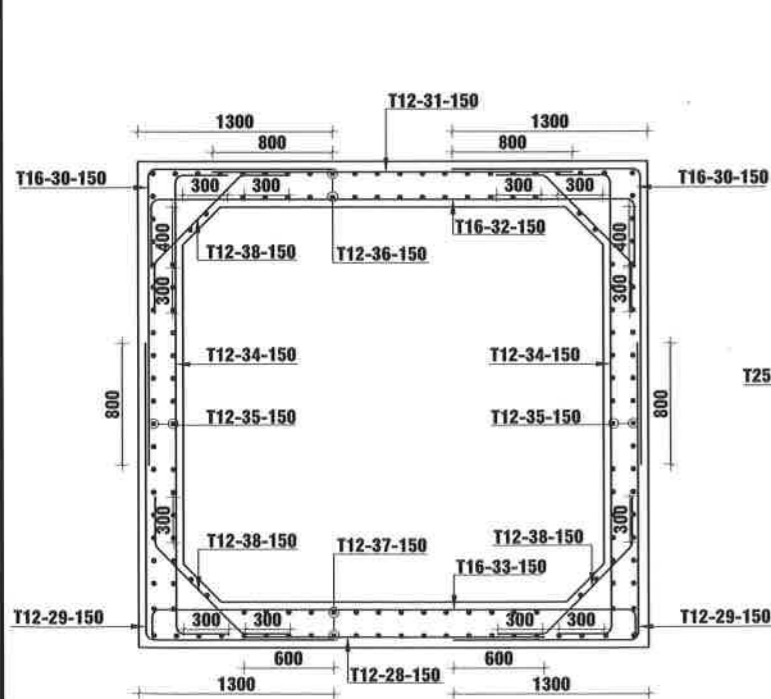
**ELEVATION OF SECTION B-B**

SCALE 1:50



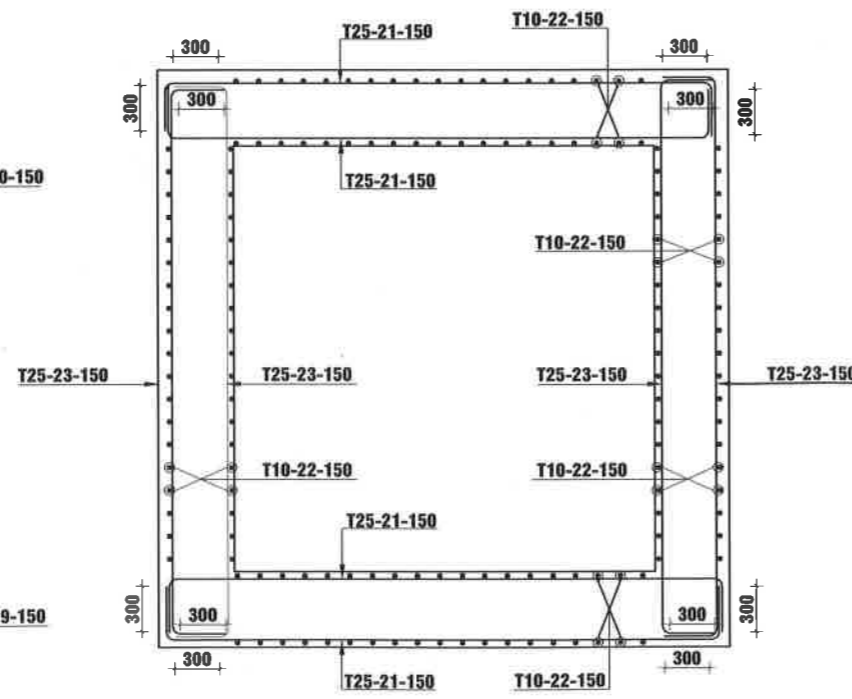
**RETAINING WALL SECTION X-X**

SCALE 1:50



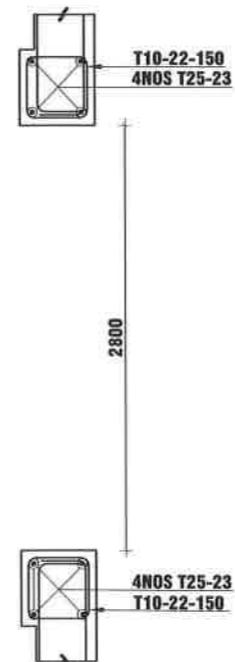
**R/F DETAILS OF SECTION Y-Y**

SCALE 1:50



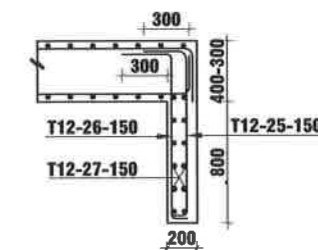
**R/F DETAILS OF SECTION Z-Z**

SCALE 1:50



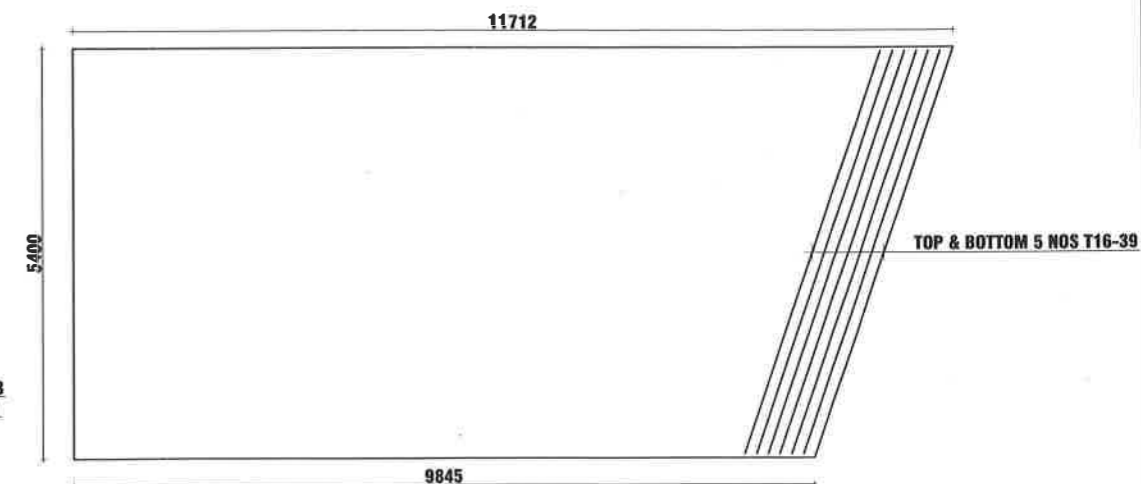
**SECTION C-C**

SCALE 1:50



**CUT OFF WALL**

SCALE 1:50



**CONER R/F ARRANGEMENT FOR TOP BOTTOM SLABS**

SCALE 1:100

**RECONSTRUCTION OF BRIDGE NO 11/2 ON EMBILMEEGAMA - DAWULAGALA- PENIDENIYA ROAD.**

R/F DETAIL OF BOX TYPE BRIDGE

SCALE -

REV	DESCRIPTION	BY	DATE



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA  
MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT

SURVEYED & PLOTTED :

DESIGNED :  
K.A.S.B.KUMARAARACHCHI

DRAWN :  
U.B.R.R.K.BALASOORIYA

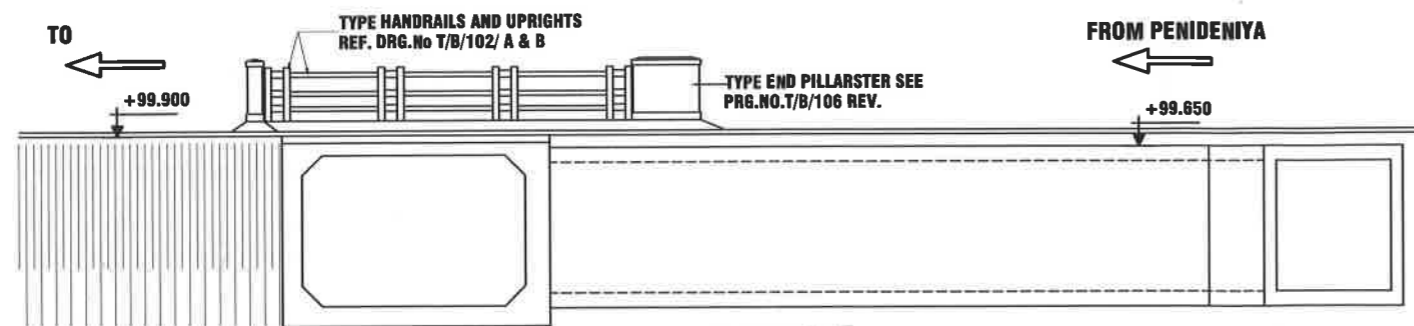
CHECKED :  
A.G.ARIYAWANSA

C.E (DESIGN):  
A.G.ARIYAWANSA

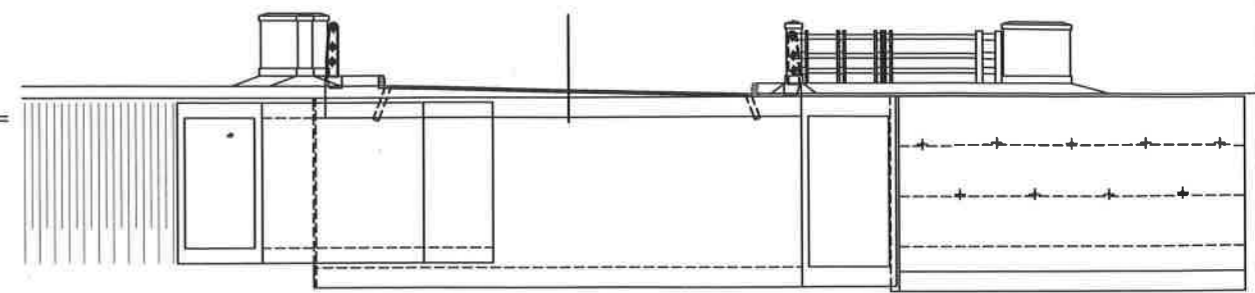
A.D.D.(DESIGN)  
L.V.S.WEERAKOON

DATE : 23/08/2018  
DRG.No. : DD/D/CP/B/1018/3(6)

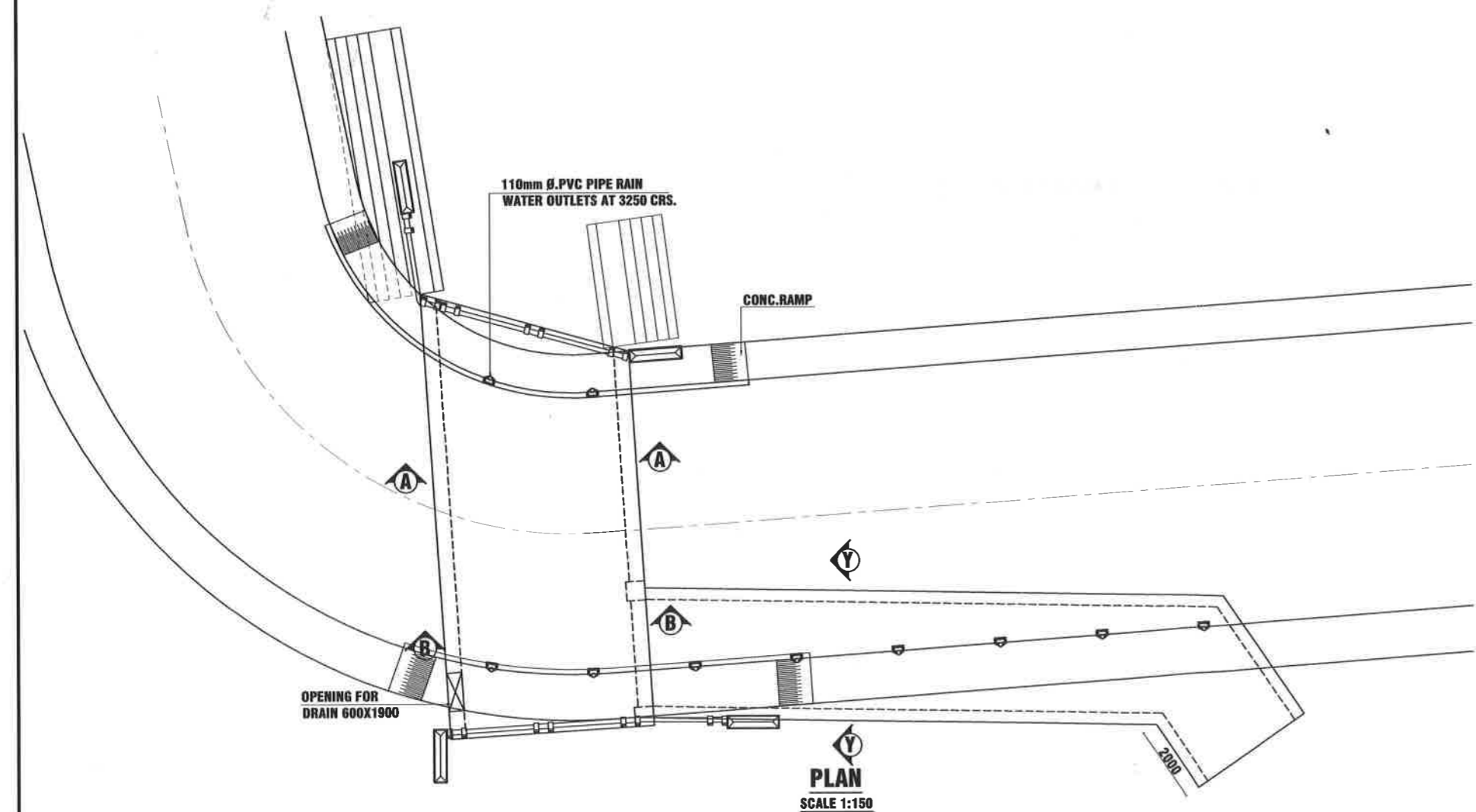
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**ELEVATION**  
SCALE 1:150



**SIDE ELEVATION**  
SCALE 1:150



**PLAN**  
SCALE 1:150

**GENERAL NOTES**

- a. All dimensions are in millimeters unless otherwise specified.
- b. Both material and workmanship are to be in accordance with specifications.
- c. Weep holes to be provided at 1.2m c/c staggered using 110 mm dia. Type 600 PVC pipes.
- d. A clay puddle of 600 x 300 to be provided through out the length of the abutments and wing walls to divert the water collecting behind.
- e. Exact foundation depth should be selected by Engineer after excavation, if needed foundation improvement to be done.
- f. Opening for dain should be provided in box culvert 900mmx1600mm which coming from Dawulagala End LHS.

**CONCRETE**

Use following concrete grades for structures or part of a structure as indicated below in accordance with specifications.

**ABUTMENT & WING WALL**

- a. Screed conc. = GR.15 ( 37.5)
- b. Box structures = GR. 30 (20)
- c. Retaining wall base = GR. 25 (20)

**REINFORCEMENT**

- a. All bar marked "T" shall be high yield deformed bars of yield strength not less than 460 N/mm<sup>2</sup> and all marked "R" shall be hot rolled mild steel plain bars of yield strength not less than 250 N/mm<sup>2</sup>
  - b. Bars of cut length larger than the supplied length to be lapped with length of 50 Ø, where Ø is the diameter and lapping should be staggered
  - c. Reinforcement bars shall be bent accordance with standard specifications
  - d. Clear concrete cover for reinforcement
- Box - 50 mm  
Retaining wall base - 75mm

**SPECIAL NOTES**

- All the constructions shall be in accordance with
- a. Standards specification for construction & maintenance of Road & Bridges ICTAD Second Edition - June 2009

**RECONSTRUCTION OF BRIDGE NO 11/2 ON EMBILMEEGAMA - DAWULAGALA- PENIDENIYA ROAD.**

PLAN AND ELEVATION

SCALE -

REV.	DESCRIPTION	BY	DATE

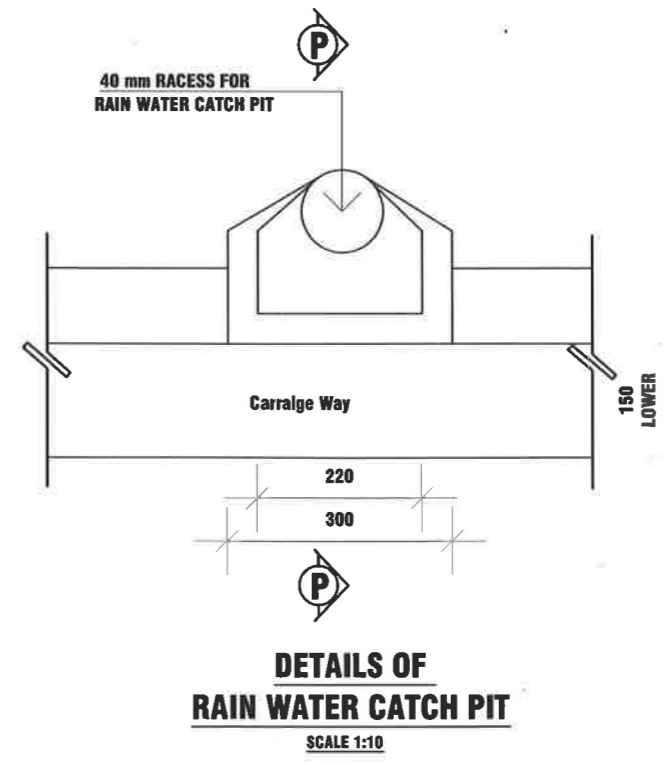
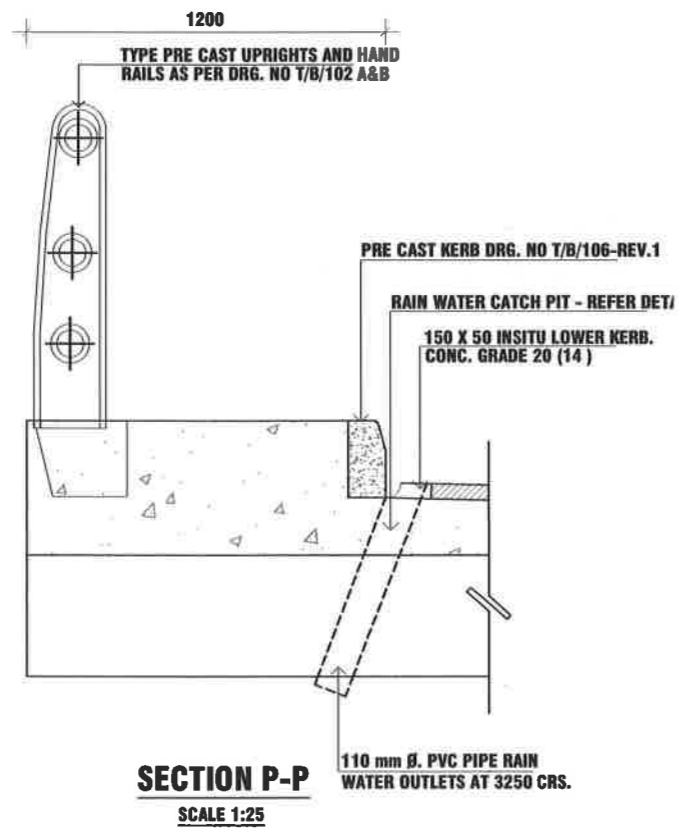
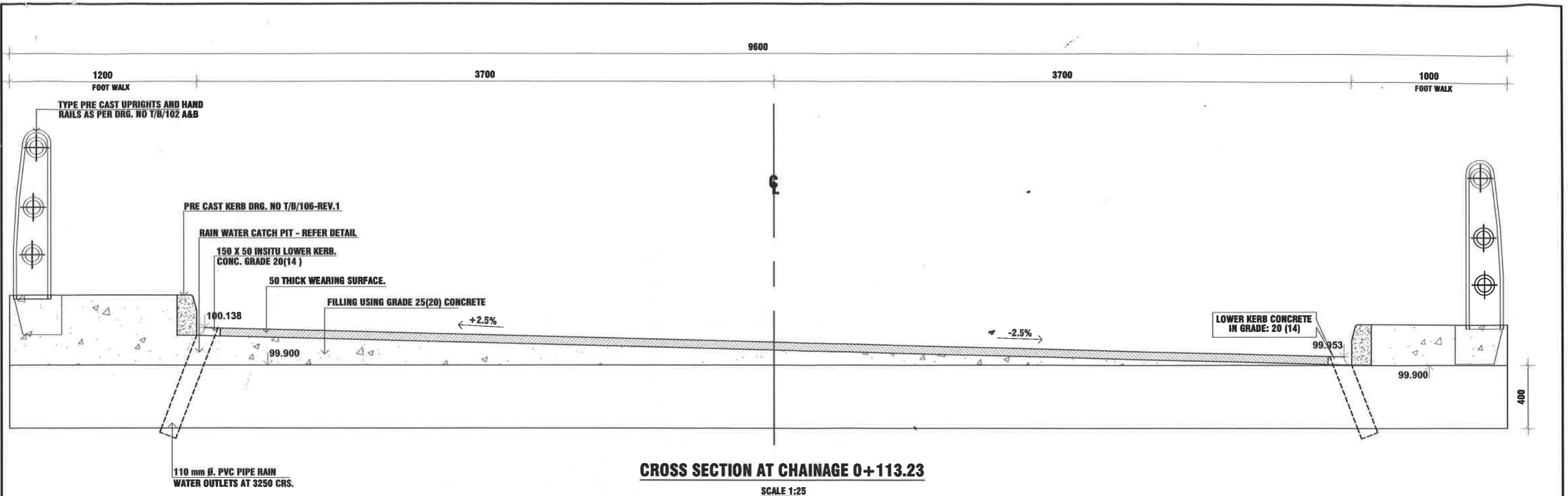


DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA  
MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT



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C.E. (DESIGN) : A.G.ARIYAWANSA	A.D.D.(DESIGN) L.V.S.WEERAKOON	DATE : 23/08/2018	DRG.No. : DD/D/CP/CP/B/1018/4(6)



**RECONSTRUCTION OF BRIDGE NO 11/2 ON EMBILMEEGAMA - DAWULAGALA- PENIDENIYA ROAD.**

DETAILS OF DECK

SCALE -

REV	DESCRIPTION	BY	DATE

 <b>DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA</b> MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT		 DESIGN OFFICE (C.P.), ROAD DEVELOPMENT AUTHORITY S.W.R.D. BANDARANAIKE MAWATHA, KANDY TEL : 0812234267 FAX : 0812234267 email : docpkandy@gmail.com	
SURVEYED & PLOTTED :	DESIGNED :	DRAWN :	CHECKED :
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C.E. (DESIGN) :	A.D.D.(DESIGN)		DATE : 23/08/2018
A.G.ARIYAWANSA	L.V.S.WEERAKOON		DRG.No. : DD/ID/CP/B/1018/5(6)

### BAR SHEDULE

LOCATION	BAR MARK	BAR TYPE	DIA. (mm)	NO.OF BARS FOR MEMBERS	CUT LENGTH (mm)	SHAPE
BOX CULVRRT	01	T	16	41	3400	
	01A	T	16	13	3400-1200	
	02	T	20	82	4300	
	02A	T	20	26	4300-2550	
	03	T	16	82	4300	
	03A	T	16	26	4300-2550	
	04	T	16	41	3000	
	05	T	20	41	6050	
	05A	T	16	41	5835	
	05B	T	20	13	5650-600	
	05C	T	16	13	5650-600	
	06	T	16	82	4500	
	07	T	12	48	7045	
	08	T	12	48	12210	
	09	T	12	70	12210-7045	
	10	T	12	70	12210-7045	
	11	T	16	236	2300	
	12	T	16	26	3600	
	13	T	25	26	2400	
	14	T	25	26	4575	
	15	T	16	26	2250	
	16	T	16	26	3000	
	17	T	16	26	4425	
	18	T	20	26	6000	
	19	T	20	26	5900	
	20	T	16	26	4500	
	21	T	25	08	4500	
	22	T	10	80	1700	
	23	T	25	08	4500	
	25	T	12	94	1600-1500	
	26	T	12	94	1600-1500	
	27	T	12	36	5300-3300	
	28	T	12	102	2800	
	29	T	12	204	3200	
	30	T	16	204	3200	
	31	T	12	102	2000	
	32	T	16	102	4100	
	33	T	16	102	3700	
	34	T	12	204	3700	
	35	T	12	68	15600	
	36	T	12	36	15600	
37	T	12	36	15600		
38	T	12	408	1600		
39	T	16	20	5610		
RETAINING WALL	40	T	12	45	2350	
	41	T	10	10	6850+1850	

**RECONSTRUCTION OF BRIDGE NO 11/2 ON EMBILMEEGAMA - DAWULAGALA- PENIDENIYA ROAD.**

REV	DESCRIPTION	BY	DATE



**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA  
MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT**



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A.D.D.(DESIGN)  
L.V.S.WEERAKOON

DATE : 23/08/2018

DRG.No. : DD/D/CP/B/1018/6(6)

BAR SHEDULE

SCALE -