



GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT, HIGHWAYS PORTS & CIVIL AVIATION



ROAD DEVELOPMENT AUTHORITY

RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA – MADAWALA – BAMBARELLA ROAD. (B-205)

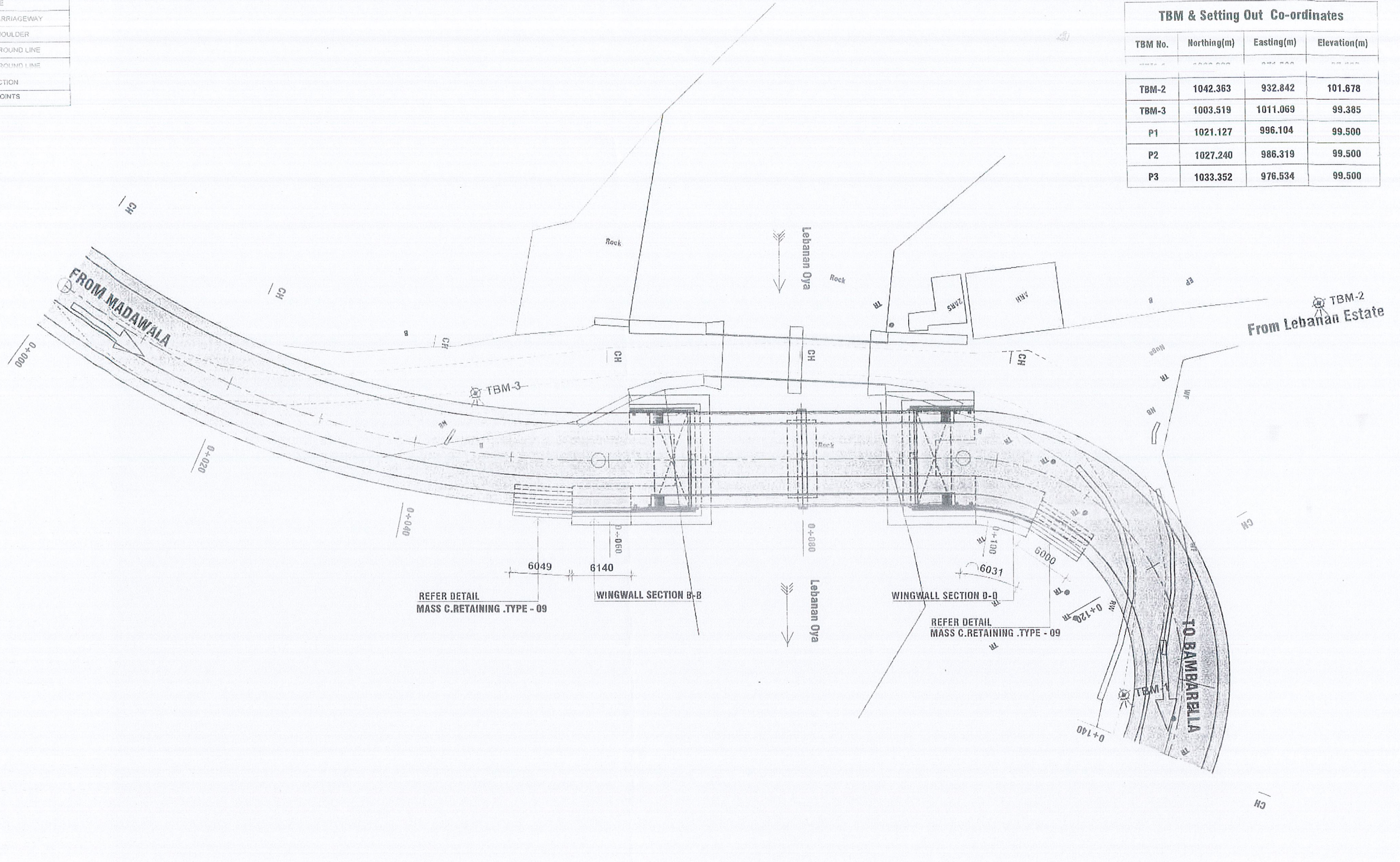
DETAILED DESIGN DRAWINGS

APRIL 2025

Design Office (Central Province)
Road Development Authority
S.W.R.D. Bandaranayake Mawatha
Kandy

LEGEND	
	CENTER LINE
	EDGE OF CARRIAGEWAY
	EDGE OF SHOULDER
	FINISHED GROUND LINE
	EXISTING GROUND LINE
	FLOW DIRECTION
	CONTROL POINTS

TBM & Setting Out Co-ordinates			
TBM No.	Northing(m)	Easting(m)	Elevation(m)
TBM-2	1042.363	932.842	101.678
TBM-3	1003.519	1011.069	99.385
P1	1021.127	996.104	99.500
P2	1027.240	986.319	99.500
P3	1033.352	976.534	99.500



PLAN
SCALE 1:400

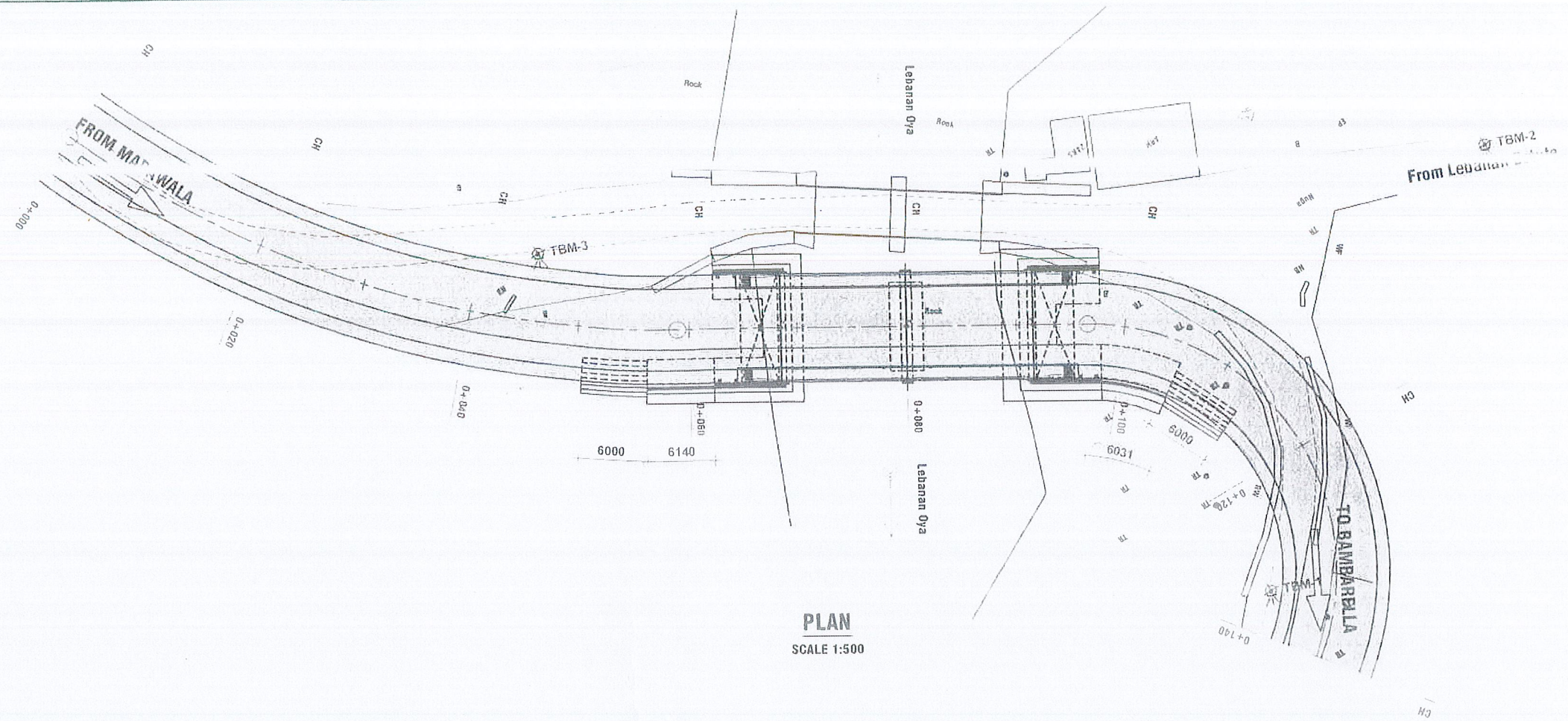
REV	DESCRIPTION	BY	DATE
00	TENDER ISSUED	R.D.A.	25-07-2024

GENERAL NOTE :-
1. ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. COORDINATES ARE IN ACCORDING TO SRI LANKA NATIONAL GRID
3. ELEVATIONS ARE IN ACCORDING TO MSL
4. SEE SPECIAL NOTES

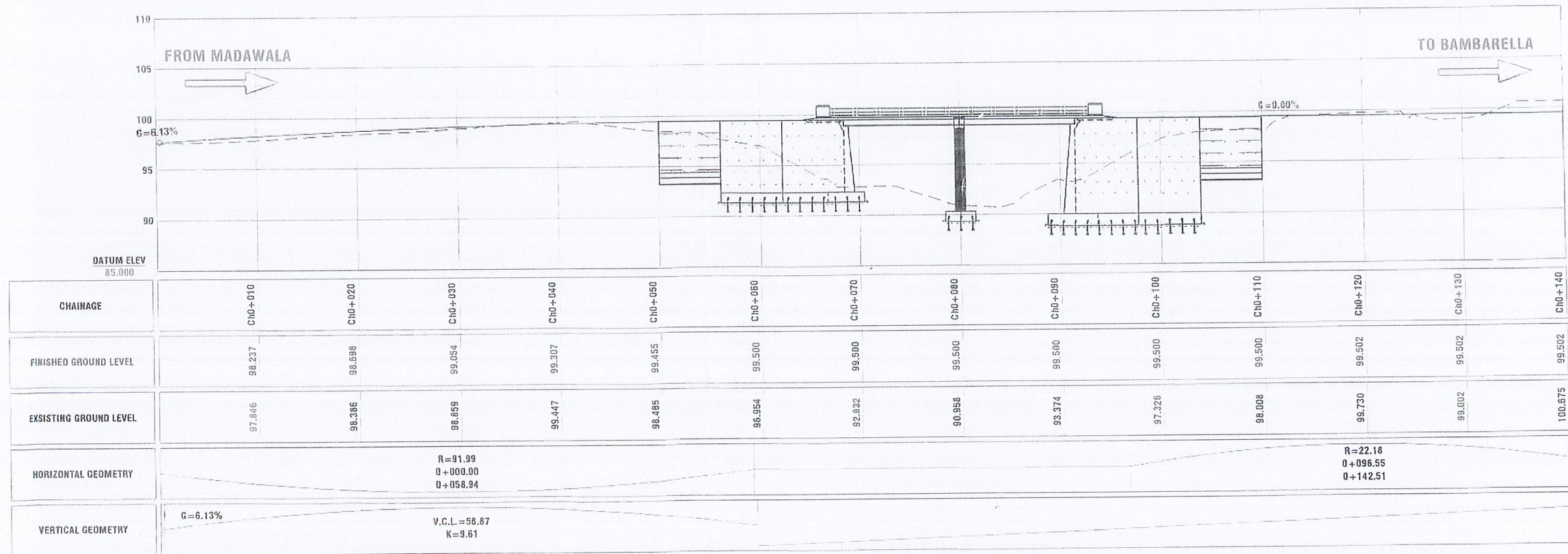
**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

SURVEYED & PLOTTED		DESIGNED		DRAWN		DRG.No. : DD/DCP/KDY/B/949/01-16	
		W.M.W.A.S. NISHSHANKA				SCALE	
						DATE : 08-04-2017	

LEGEND	
	CENTER LINE
	EDGE OF CARRIAGEWAY
	EDGE OF SHOULDER
	FINISHED GROUND LINE
	EXISTING GROUND LINE
	CONTROL POINTS



PLAN
SCALE 1:500



LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 500
VERTICAL 1: 100

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT, HIGHWAYS
AND CIVIL AVIATION

DESIGN OFFICE (C.P.)
ROAD DEVELOPMENT AUTHORITY
S.W.R.D. BANDARANAYAKE MAWATHA, KANDY

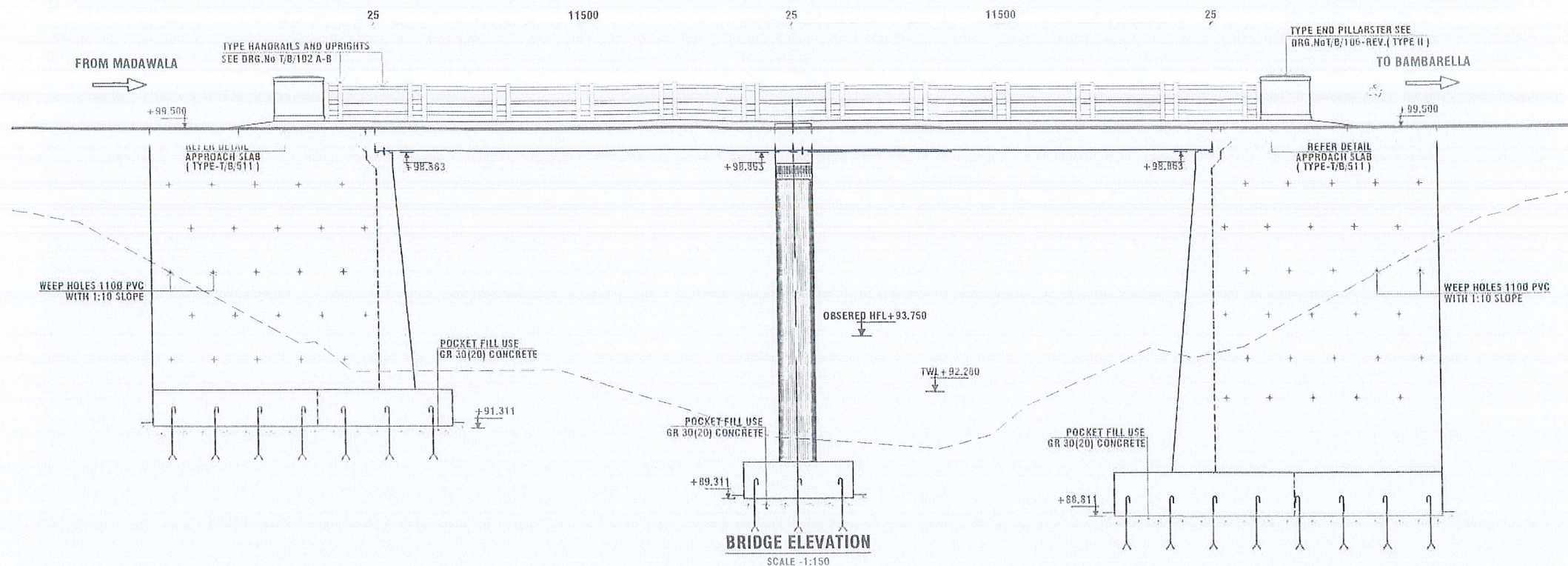
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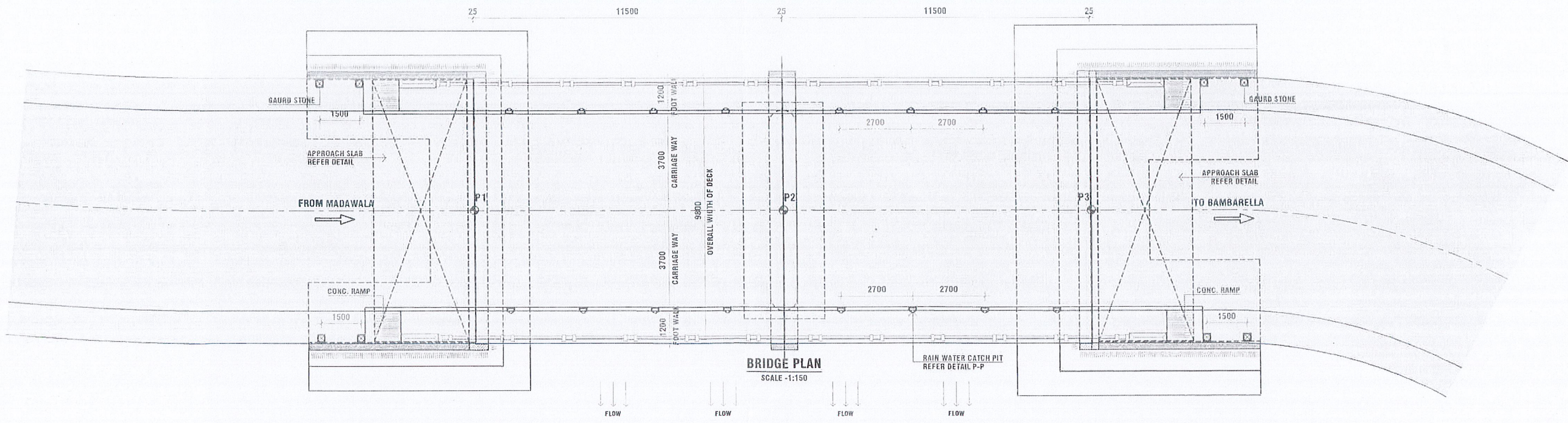
**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

PLAN AND PROFILE

SURVEYED & PLOTTED	DESIGNED : W.M.W.A.S NISHSHANKA	DRAWN : JAGATH C. RAJAPARKSHE	DRG No : DD/D/CPKDY/B/849/02-16
CHECKED	C.E (DESIGN)	P.D. (C.P.)	SCALE V = 1:200 H = 1:1000
			DATE : 08-04-2017 SHEET No 0



BRIDGE ELEVATION
SCALE - 1:150



BRIDGE PLAN
SCALE - 1:150

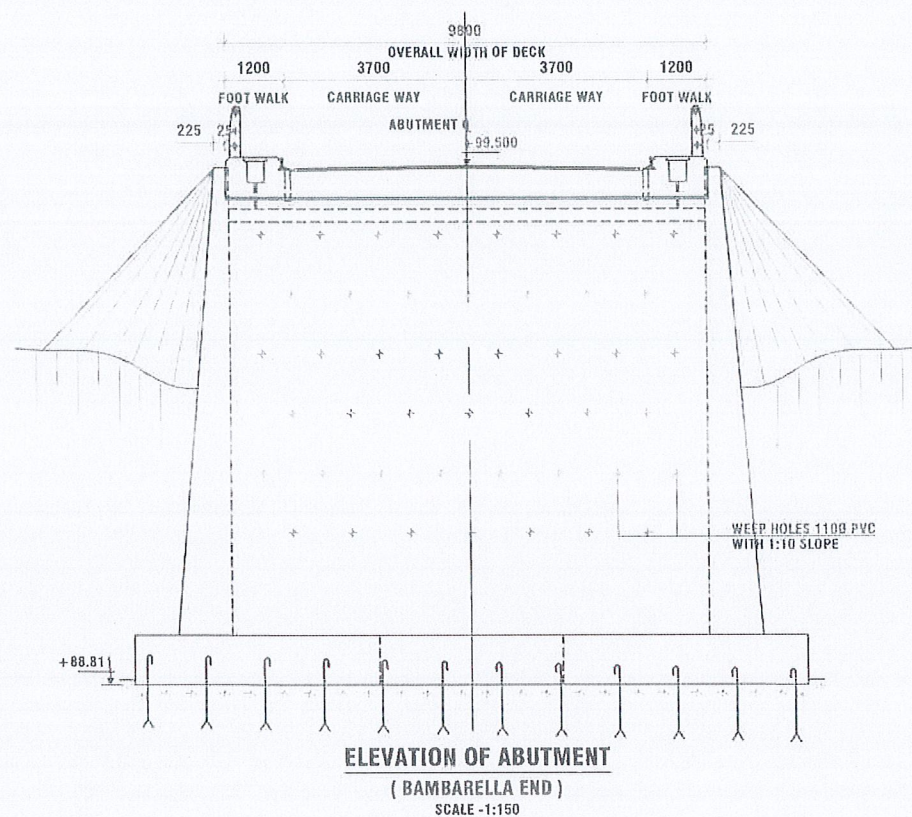
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT, HIGHWAYS
AND CIVIL AVIATION

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
S.W.R.D. BANDARANAYAKE MAWATHA, KANDY
TEL : 0812388991 FAX : 0812388991 email : docpkandy@gmail.com

REV	DESCRIPTION	BY	DATE	GENERAL NOTE
00	TENDER ISSUED	R.D.A	25-07-2024	1. ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED 2. COORDINATES ARE IN ACCORDING TO SRI LANKA NATIONAL GRID 3. ELEVATIONS ARE IN ACCORDING TO MSL 4. SEE SPECIAL NOTES

**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

PLAN AND ELEVATION			
SURVEYED & PLOTTED :	DESIGNED W.M.W.A.S NISHSHANKA	DRAWN : JAGATH.C.RAJAPAKSHE	DRG No : DD/D/CP/KDY/B/949/03-16
CHECKED T.WIJANAYAKE	C.E (DESIGN) K.A.S.B.KUMARAARACHCHI	P.D (C.P) W.A.M. WIJEPALA	SCALE V = 1:200 H = 1:1000
			DATE : 08-04-2017 SHEET No : 3



- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 - DIMENSIONS SHALL NOT BE OBTAIN BY SCALEING.
 - ALL WORKMANSHIP AND MATERIALS ARE TO BE ACCORDANCE WITH THE REQUIREMENT OF THE SPECIFICATION AND BY LAWS OF THE AUTHORITY.
 - WEEP HOLES TO BE PROVIDED AT 1.2 m C/C STAGGERED USING 110 mm DIA. TYPE 600 PVC PIPES.
 - ADDITIONAL WEEP HOLES ARE TO BE PROVIDED IF NECESSARY TO SUIT SITE CONDITION.
 - A CLAY PUDDLE OF 300 X 600 TO BE PROVIDED THROUGH OUT THE LENGTH OF THE ABUTMENTS AND WING WALLS TO DIVERT THE WATER COLLECTING BEHIND.
 - ALL BAR MARKED "B" SHALL BE HIGH YIELD DEFORMED BARS OF YIELD STRENGTH NOT LESS THAN 500 N/mm² AND ALL MARKED "R" SHALL BE HOT ROLLED MILD STEEL PLAIN BARS OF YIELD STRENGTH NOT LESS THAN 250 N/mm².
 - 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.
 - CLEAR CONCRETE COVER FOR REINFORCEMENT SHOULD BE 50 mm UNLESS OTHERWISE SPECIFIED.
 - REINFORCEMENT BARS SHALL BE BENT ACCORDANCE WITH STANDARD SPECIFICATIONS.
 - FOUNDATION SHALL BE REST ON THE HARD ROCK AND ADEQUATE INVESTIGATION SHALL BE VERIFIED BY THE ENGINEER BEFORE DECIDING THE FORMATION LEVELS.
 - DOWEL TO BE PROVIDED ONLY IF REQUIRE AS PER SITE CONDITION AND SUBJECTED TO ENGINEER APPROVAL
 - SCREED CONCRETE IS USED ONLY IN ABSENCE OF ROCK SURFACE.
 - ALLOWABLE BEARING STRENGTH UNDER THE FOUNDATION SHOULD NOT BE LESS THAN 250kN/m² FOR ABUTMENT & 500.kN/m² FOR PIERS.
- GRADES OF CONCRETE**
- ABUTMENTS & WING WALLS**
- | | |
|----------------|---------------|
| 1. BASE | -GRADE 30(20) |
| 2. STEM | -GRADE 30(20) |
| 3. POCKET FILL | -GRADE 30(20) |
- PIER**
- | | |
|----------------------|---------------|
| 1. BASE/STEM/CAPPING | -GRADE 30(20) |
| 2. POCKET FILL | -GRADE 30(20) |
- OTHER**
- | | |
|------------------|---------------|
| 1. DECK | -GRADE 40(20) |
| 2. FOOT WALK | -GRADE 25(20) |
| 3. APPROACH SLAB | -GRADE 25(20) |
- MASS CONCRETE WING WALLS**
- | | |
|----------------|---------------|
| 1. BASE | -GRADE 25(20) |
| 2. STEM | -GRADE 20(20) |
| 3. SCREED CON. | -GRADE 15(40) |

REV.	DESCRIPTION	BY.	DATE
00	TENDER ISSUED	R D A	25-07-2024

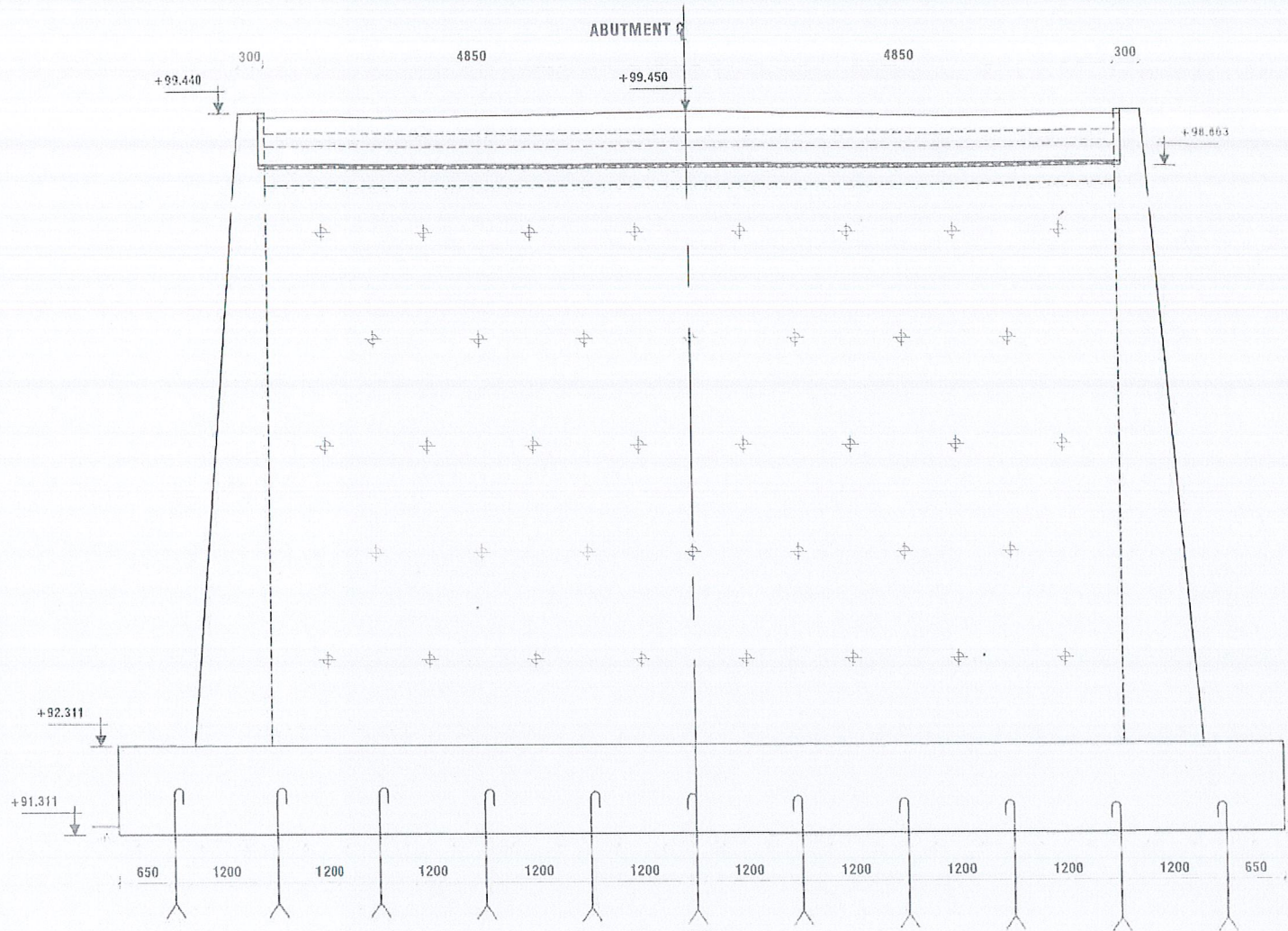
GENERAL NOTE :-

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- ELEVATIONS ARE IN ACCORDING TO MSL
- SEE SPECIAL NOTES

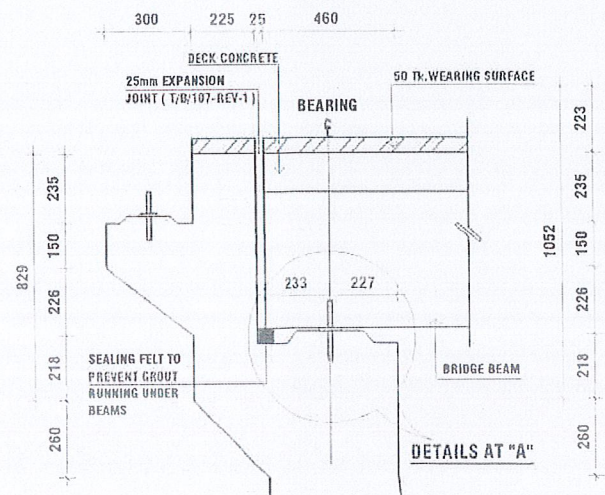
**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

ELEVATION AND NOTE

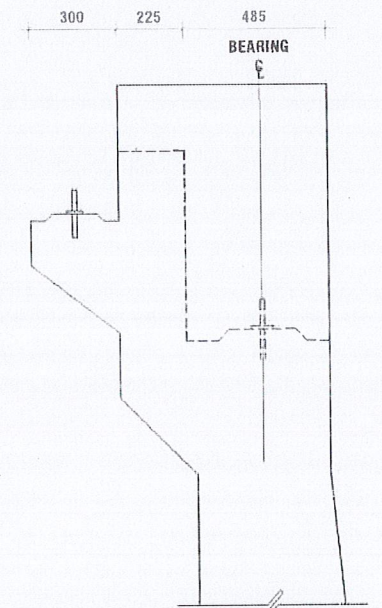
SURVEYED & PLOTTED : T.WJANAYAKE	DESIGNED : W.M.W.A.S NISHSHANKA C E (DESIGN) K A S B KUMARAARACHCHI	DRAWN : JAGATH C. RAJAPAKSHE P D (C P) W A M WJEPALA	DRG No : DD/D/CP/KDY/B/949/04-16 SCALE : V = 1:200 H = 1:1000	DATE : 08-04-2017 SHEET No : 4
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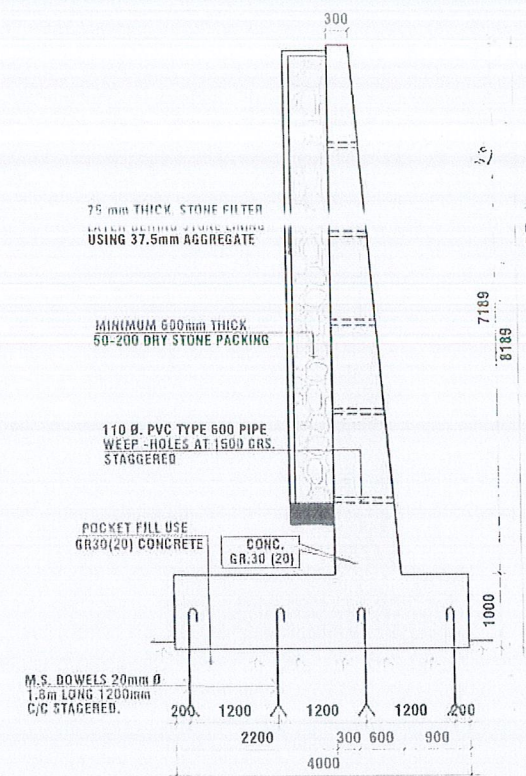
**ELEVATION OF ABUTMENT
(MADAWALA END)**
SCALE - 1:75



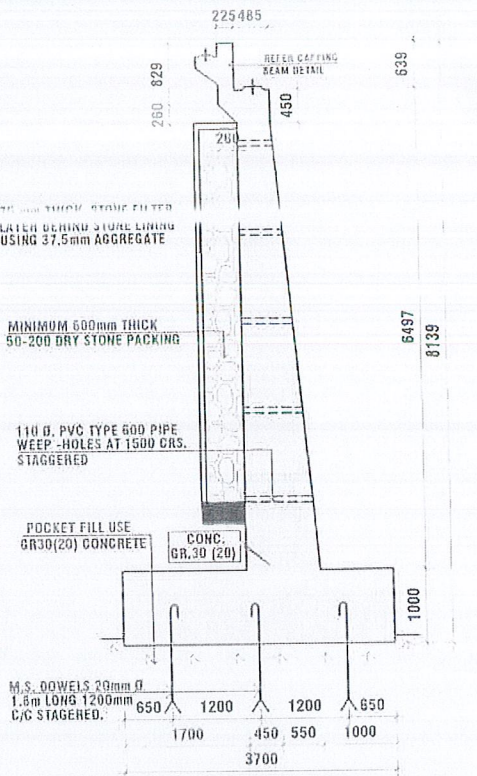
**DETAILS OF ABUTMENT
CAPPING BEAM**
SCALE - 1:25



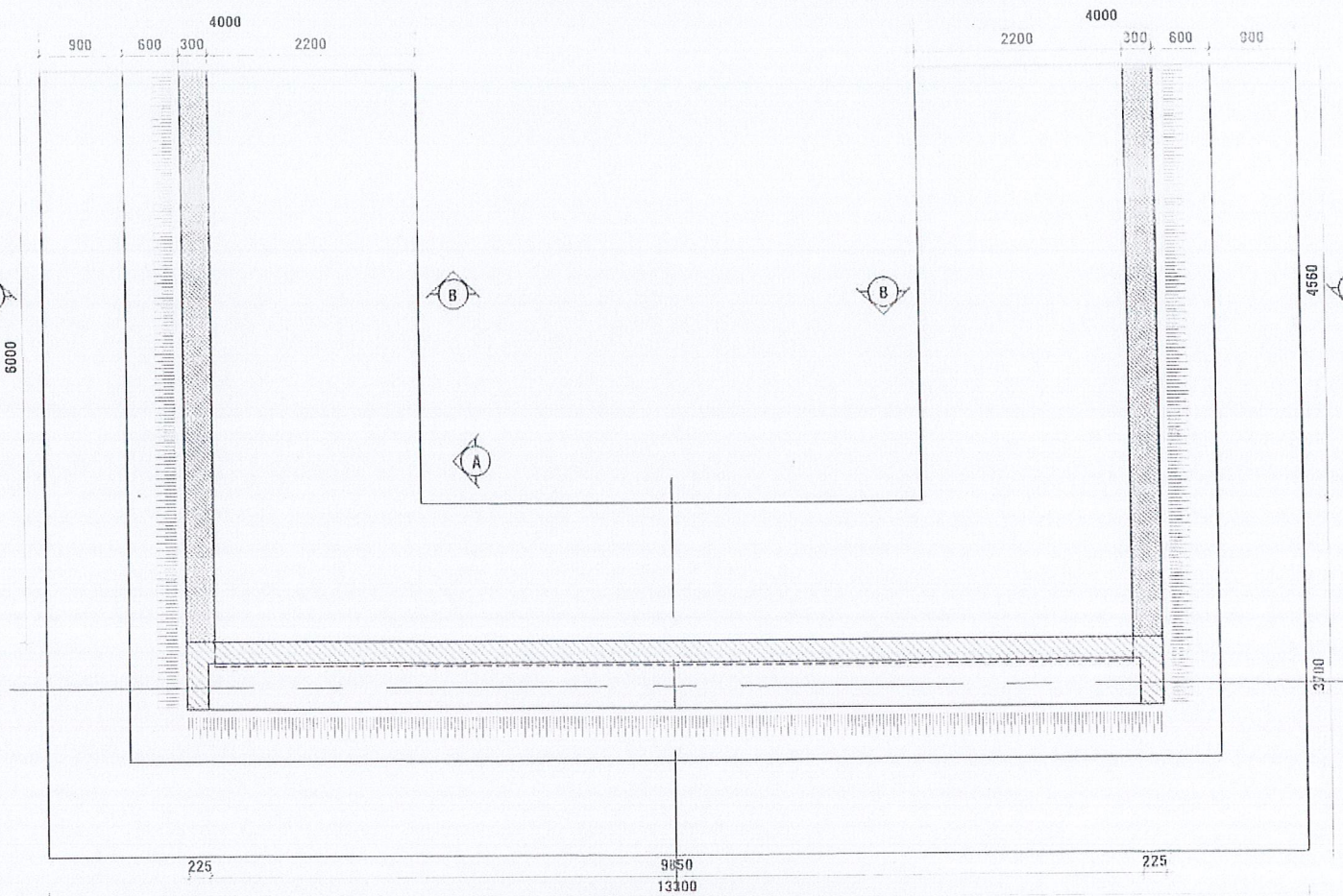
**DETAILS OF ABUTMENT
CURTAIN WALL**
SCALE - 1:25



**DETAILS OF WINGWALL SECTION B-B
(MADAWALA END)**
SCALE - 1:100



**DETAILS OF ABUTMENT SECTION A-A
(MADAWALA END)**
SCALE - 1:100



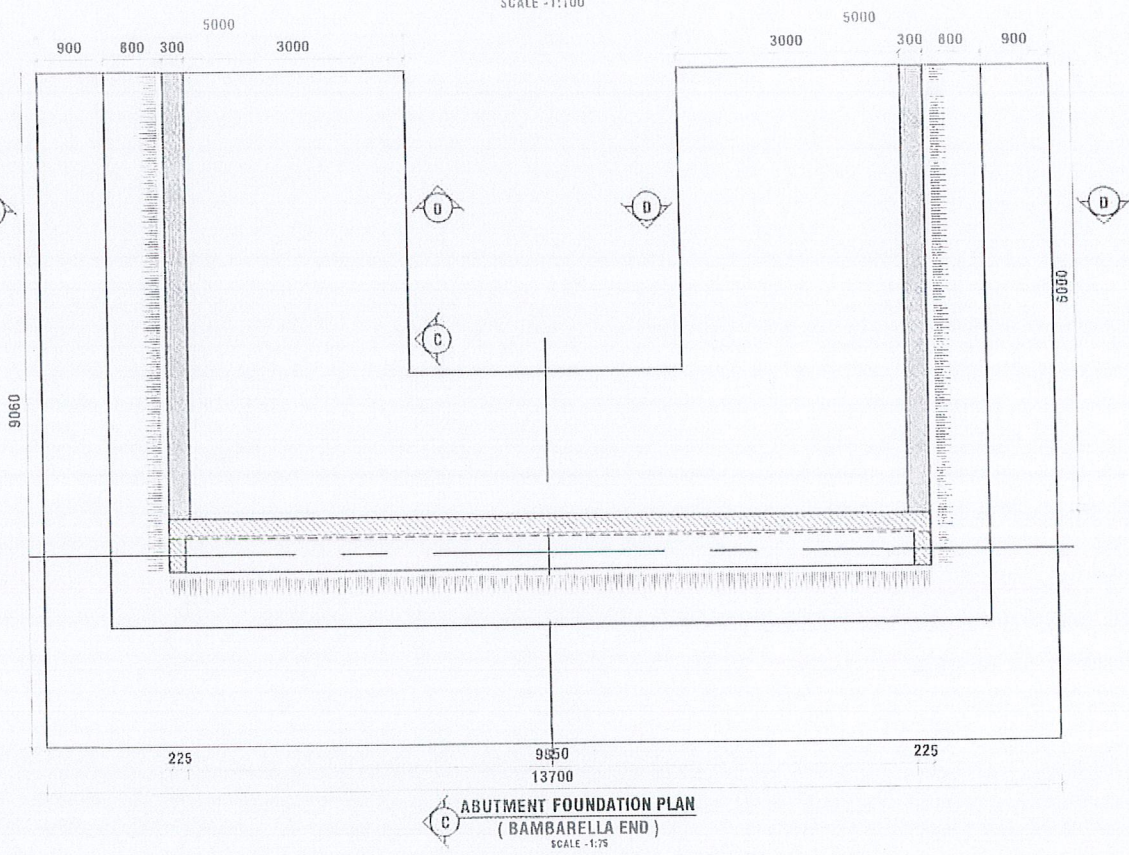
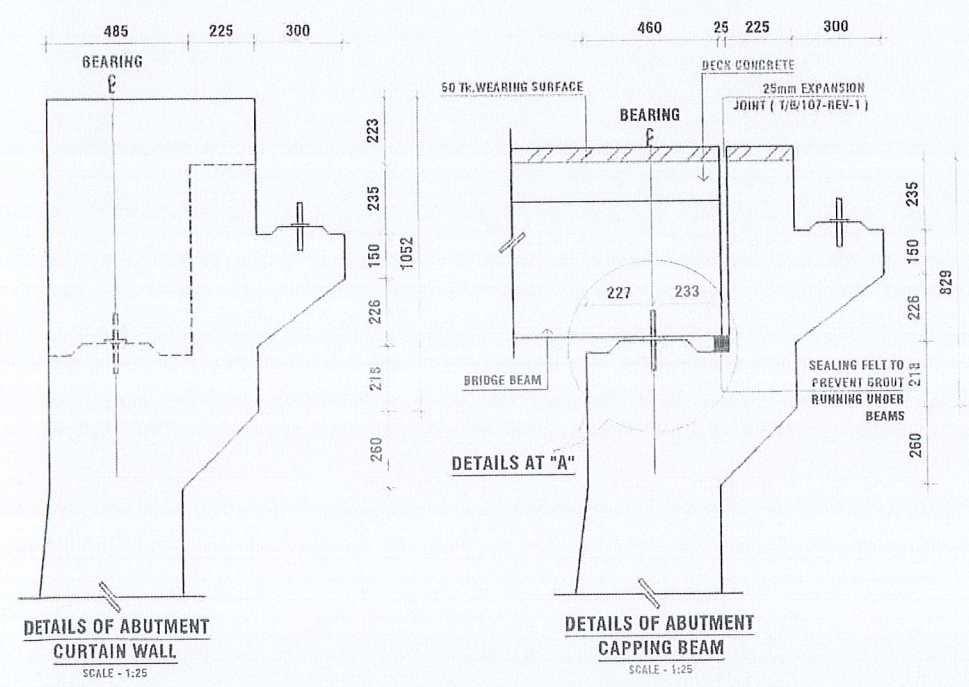
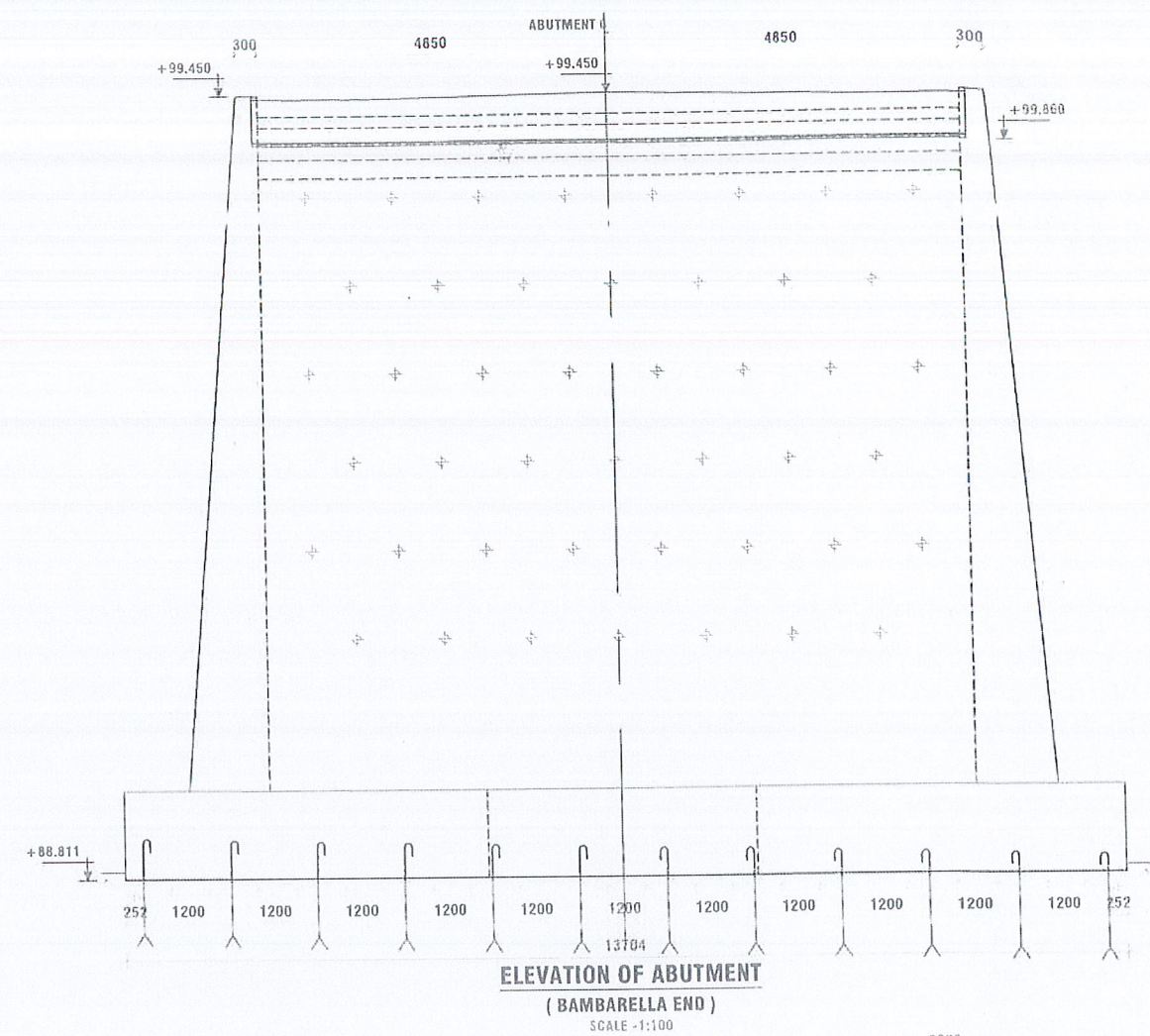
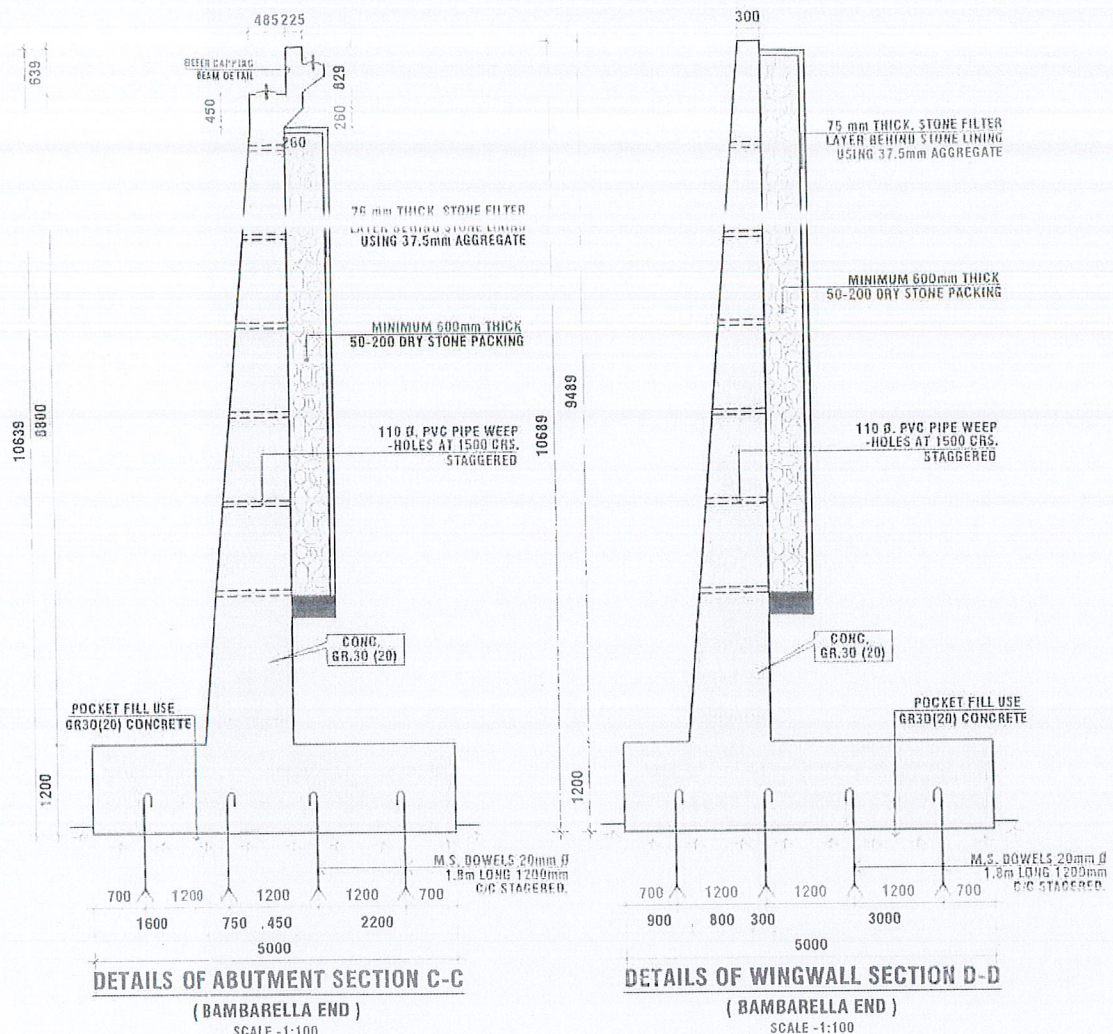
**ABUTMENT FOUNDATION PLAN
(MADAWALA END)**
SCALE - 1:75

REV	DESCRIPTION	BY	DATE
00	TENDER ISSUED	R.D.A	25-07-2024

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**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

SURVEYED & PLOTTED		DESIGNED :		DRAWN :		DRG.No. :	
T.WIJANAYAKE		W.M.W.A.S NISHSHANKA		JAGATH C. RAJAPAKSHE		DD/D/CP/KDY/B/949/05-16	
CHECKED :		C.E.(DESIGN)		P.D (C.P)		SCALE :	
T.WIJANAYAKE		K.A.S.B.KUMARAARACHCHI		W.A.M. WIJEPALA		V = 1:200 H = 1:1000	
						DATE : 08-04-2017	
						SHEET No. : 5	

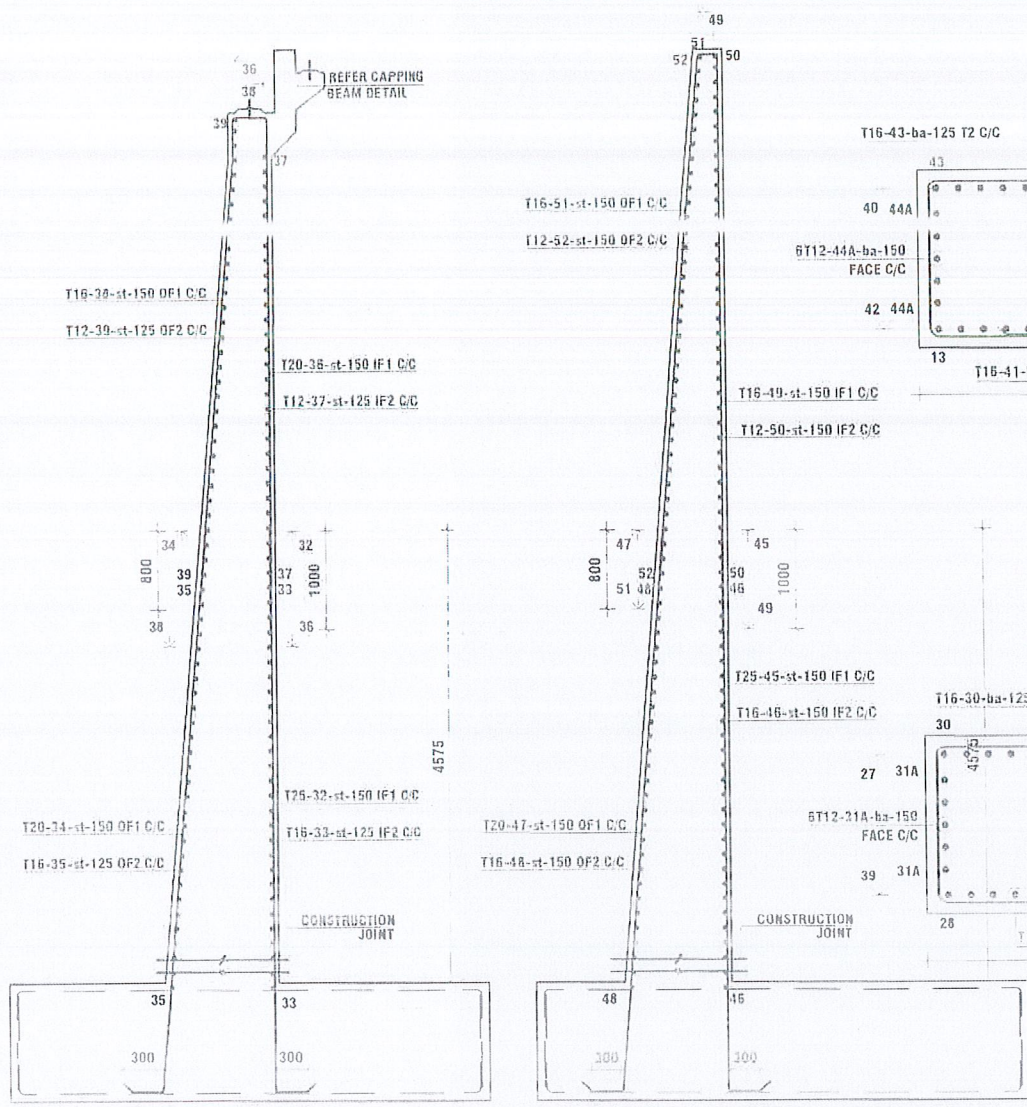


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00	TENDER ISSUED	R D A	25-07-2024	1. ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED 2. COORDINATES ARE IN ACCORDING TO SRI LANKA NATIONAL GRID 3. ELEVATIONS ARE IN ACCORDING TO MSL 4. SEE SPECIAL NOTES

RECONSTRUCTION OF BRIDGE NO 33/10 ON KATUGASTOTA - MADAWALA - BAMBARELLA ROAD. (B-205)

DETAILS OF ABUTMENTS (BABARELLA END)

SURVEYED & PLOTTED : T. WIJANAYAKE	DESIGNED : W.M.W.A.S. NISHSHANKA C.E. (DESIGN) K.A.S.B. KUMARAARACHCHI	DRAWN : JAGATH C. RAJAPAKSHE P.D. (C.P.) W.A.M. WIJEPALA	DRG No : DD/D/CP/KDY/B/949/07-16 SCALE : V = 1:200 H = 1:1000 DATE : 08-04-2017 SHEET No : 7
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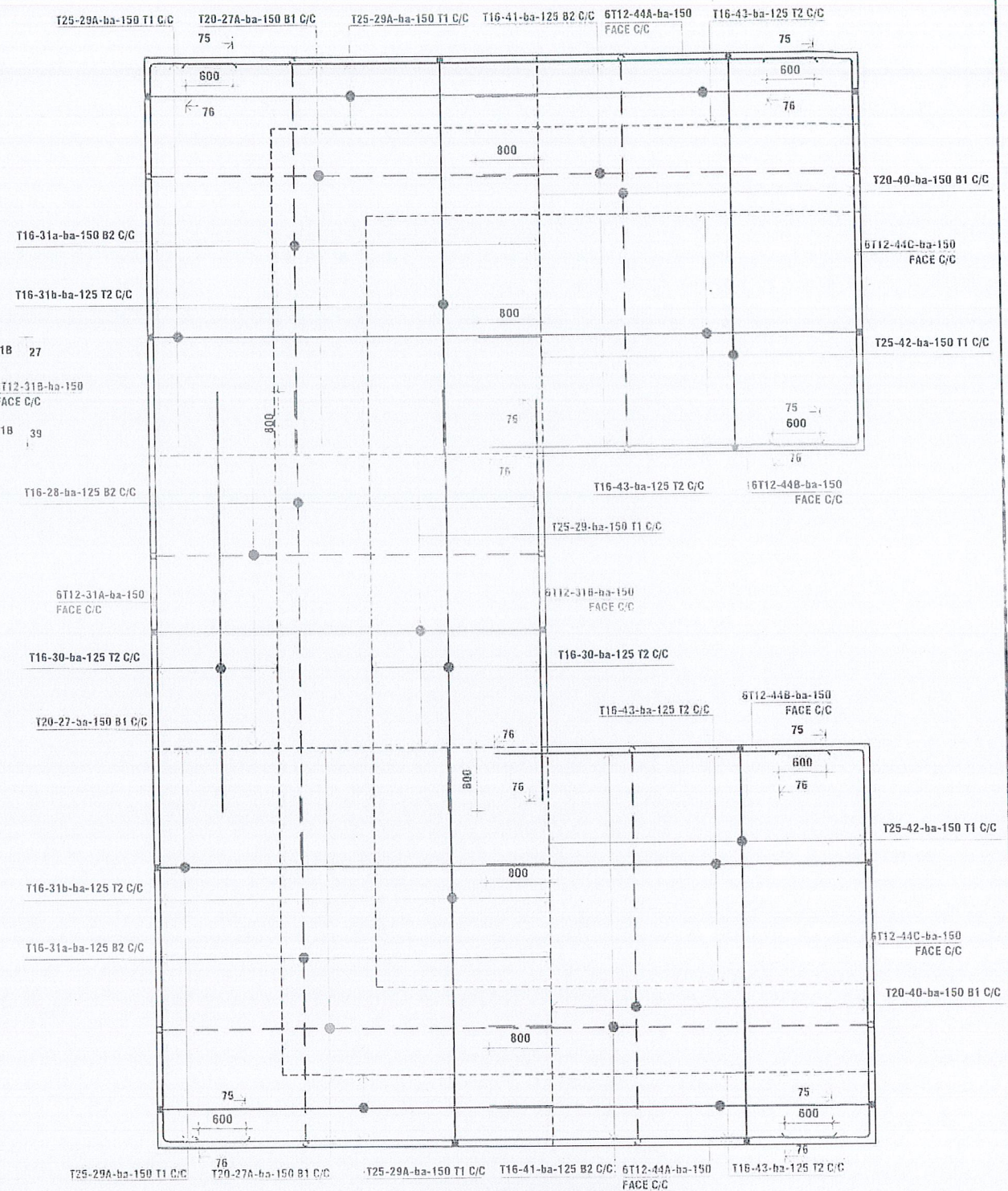
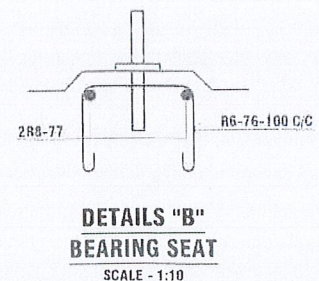
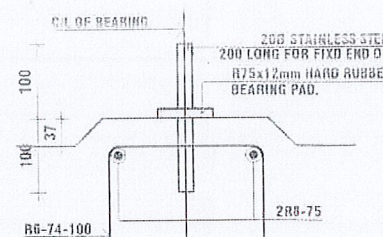
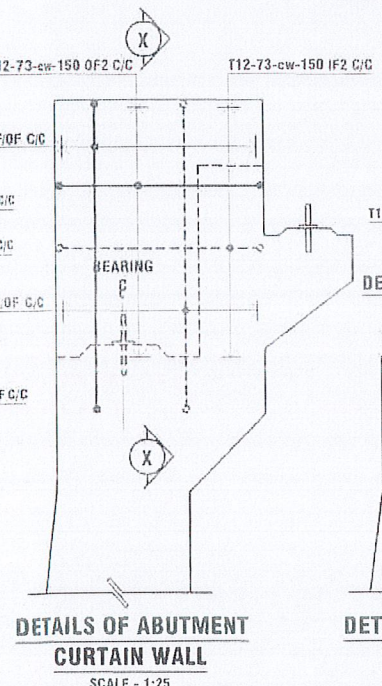
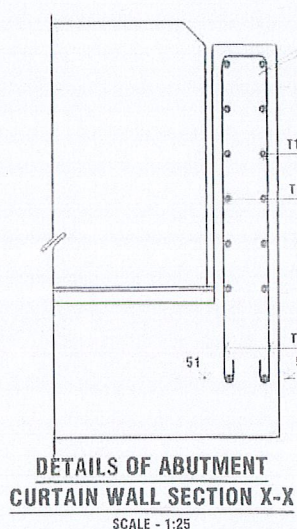


R/F DETAILS OF WINGWALL SECTION D-D (BAMBARELLA END)
SCALE - 1:75

R/F DETAILS OF ABUTMENT SECTION C-C (BAMBARELLA END)
SCALE - 1:75

R/F DETAILS OF ABUTMENT SECTION C-C (BAMBARELLA END)
SCALE - 1:75

R/F DETAILS OF WINGWALL SECTION D-D (BAMBARELLA END)
SCALE - 1:75

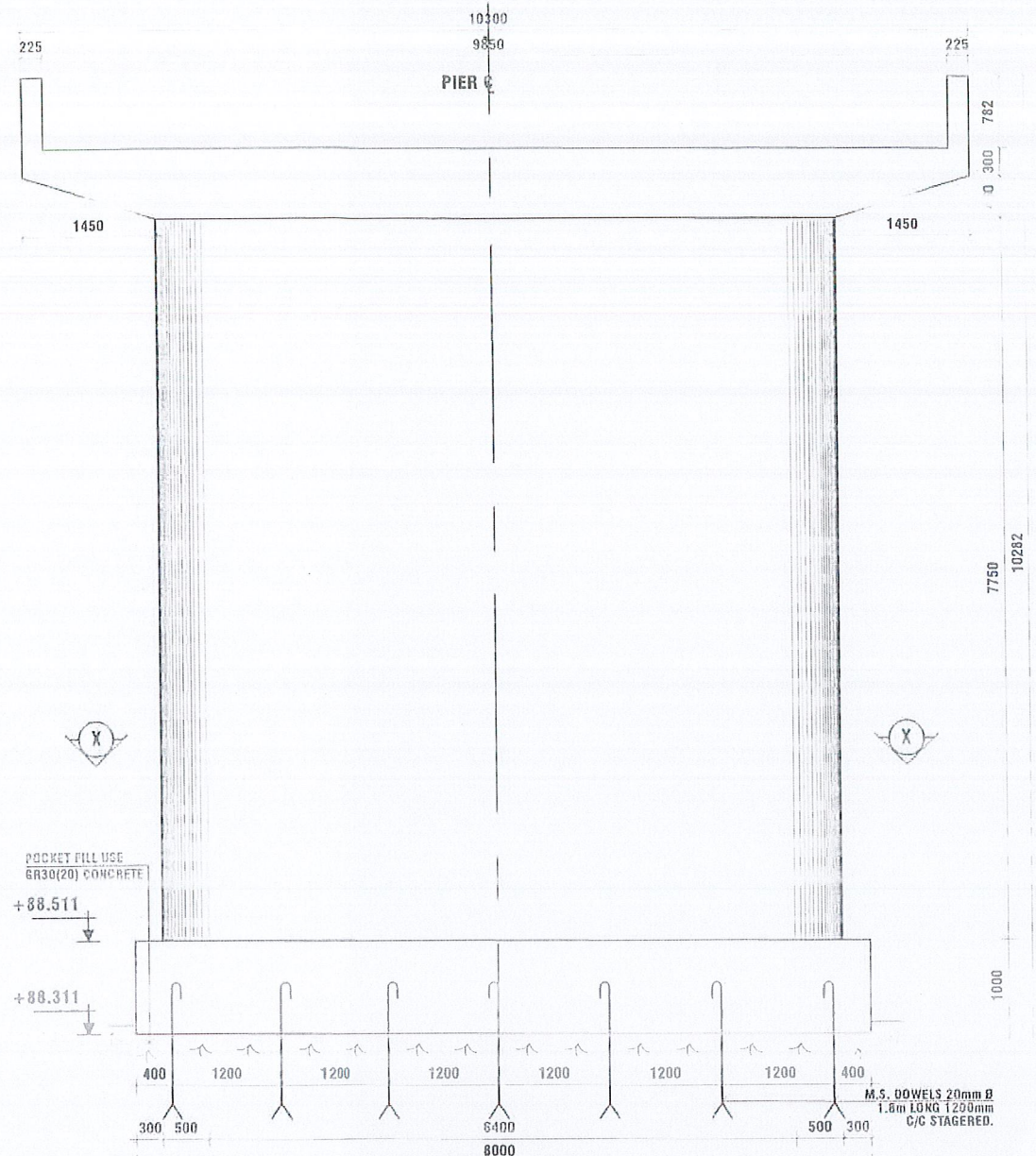


ABUTMENT FOUNDATION PLAN (BAMBARELLA END)
SCALE - 1:75

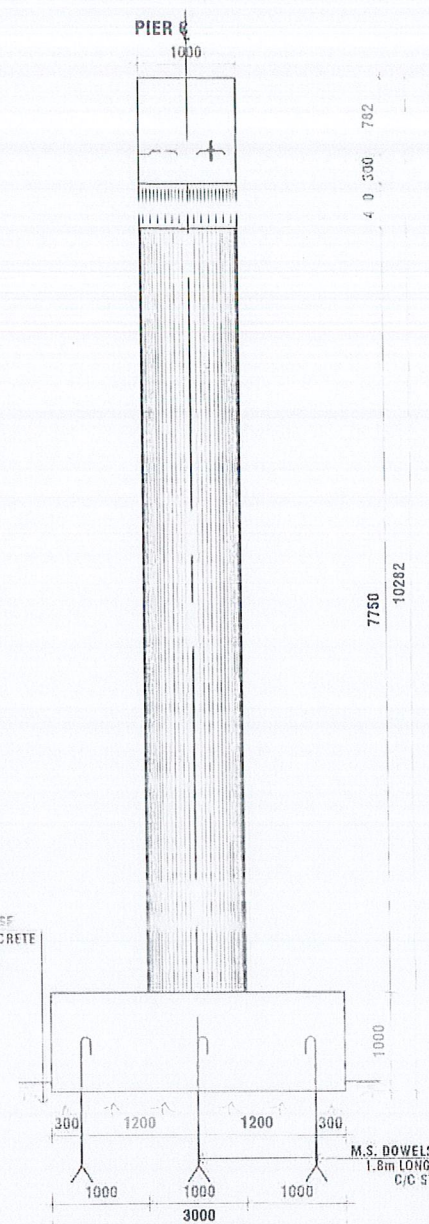
REV	DESCRIPTION	BY	DATE	GENERAL NOTE
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RECONSTRUCTION OF BRIDGE NO 33/10 ON KATUGASTOTA - MADAWALA - BAMBARELLA ROAD. (B-205)

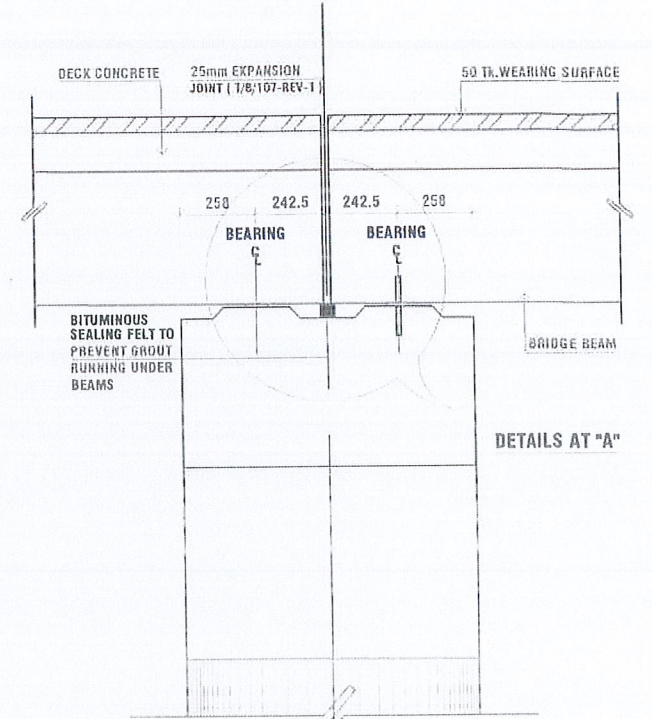
R/F DETAILS OF ABUTMENTS (BAMBARELLA END)			
SURVEYED & PLOTTED	DESIGNED	DRAWN	DRG No : DD/D/CP/KDY/B/949/08-16
T.WIJANAYAKE	W.M.W.A.S. NISHSHANKA	JAGATH.C. RAJAPAKSE	SCALE V = 1:200 DATE : 08-04-2017 H = 1:1000 SHEET No : 2
CHECKED	C.E (DESIGN)	P.D. (C.P)	
	K.A.S.B. KUMARAARACHCHI	W.A.M. WIJEPALA	



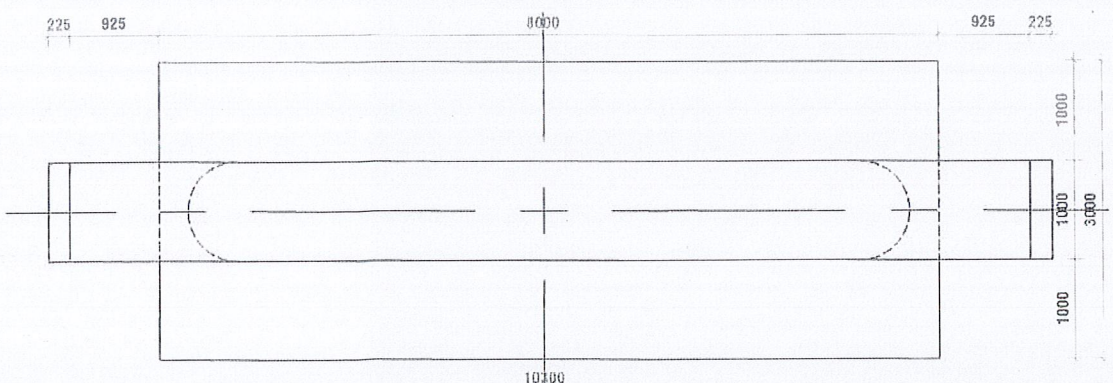
PIER ELEVATION
SCALE - 1:75



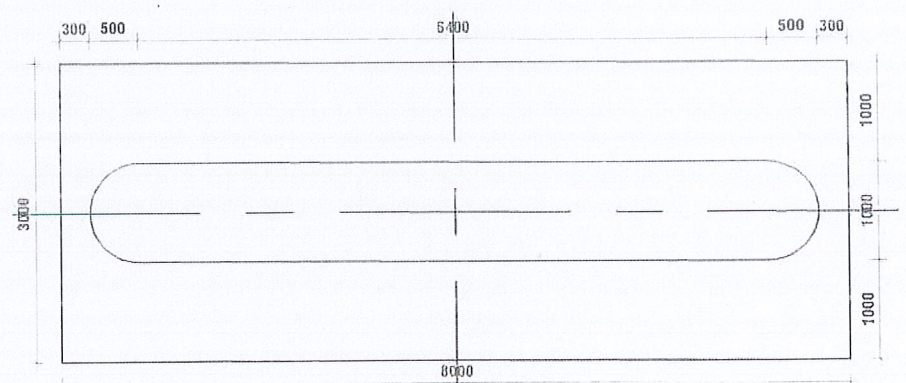
PIER ELEVATION
SCALE - 1:75



DETAILS OF PIER CAPPING BEAM
SCALE - 1:25



PIER PLAN
SCALE - 1:75



PIER SECTION X-X
SCALE - 1:75

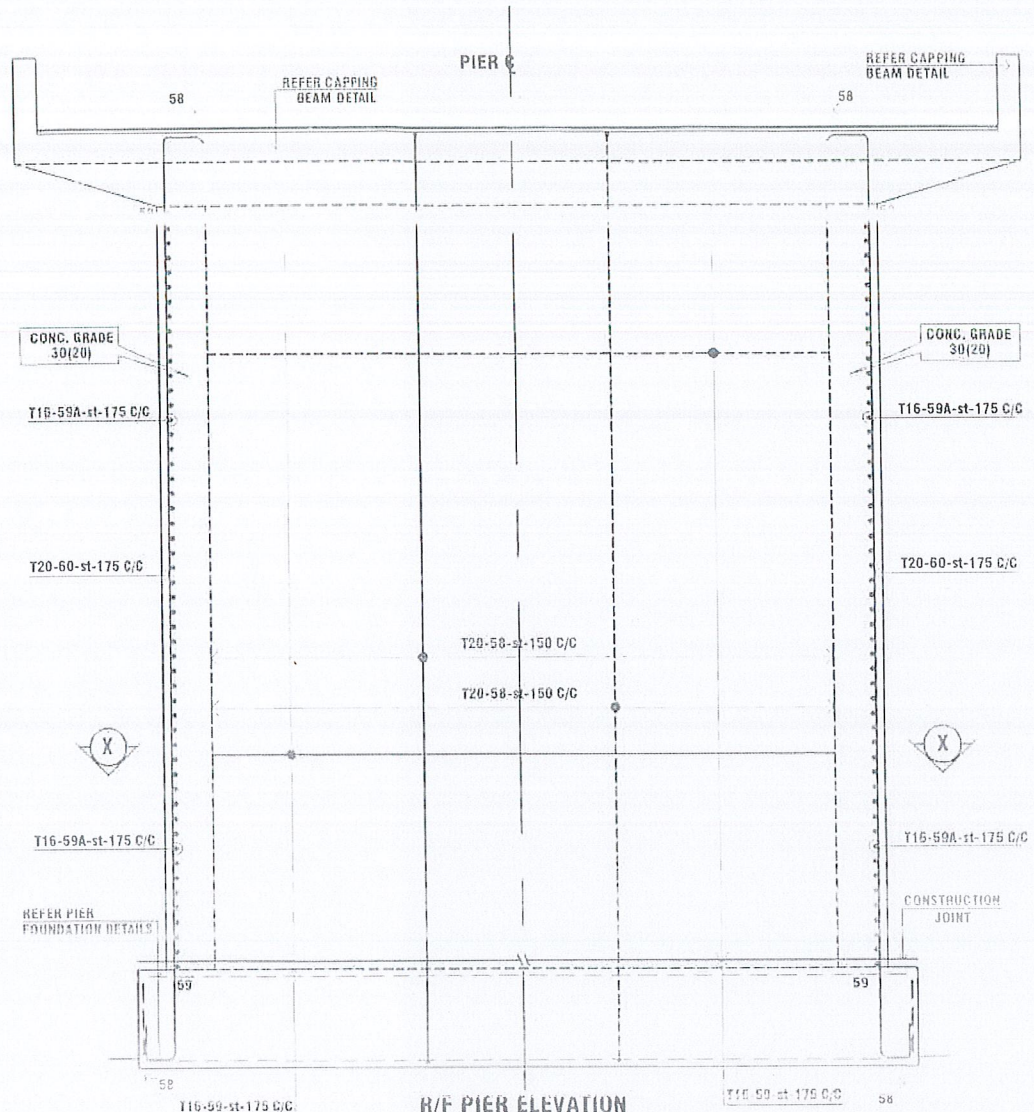
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT, HIGHWAYS AND CIVIL AVIATION
DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
S.W.R.D. BANDARANAYAKE MAWATHA, KANDY
TEL: 081 7388001 FAX: 081 7388003 email: dso@rdta.lk

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00	TENDER ISSUED	R D A	25-07-2024

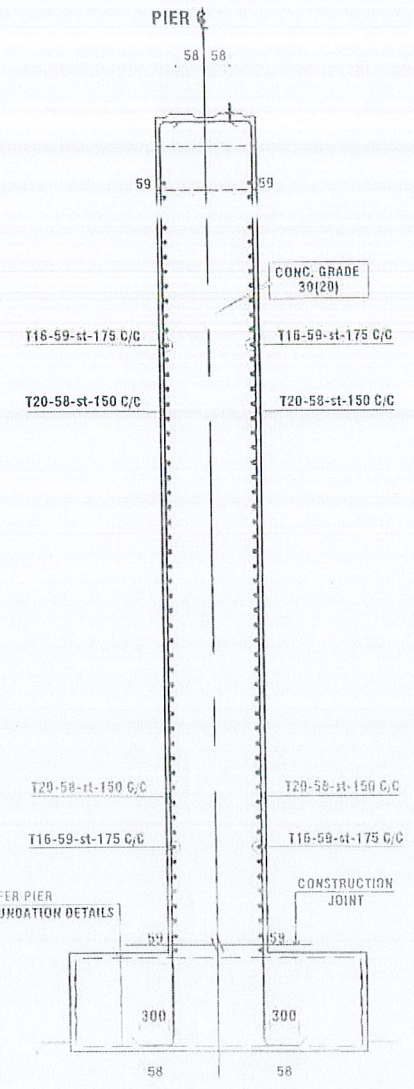
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3. ELEVATIONS ARE IN ACCORDING TO MSL
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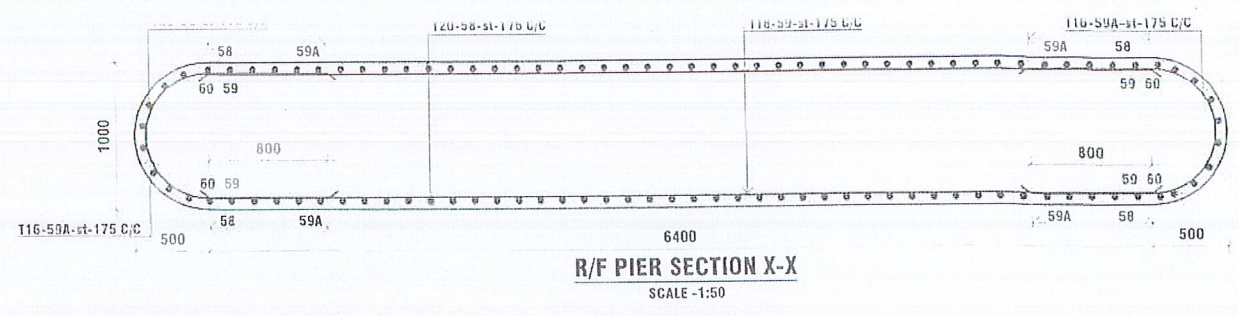
DETAILS OF PIER			
SURVEYED & PLOTTED:	DESIGNED:	DRAWN:	DRG.No. : DD/D/CP/KDY/B/949/09-16
T.W. IANAYAKE	W.M.W.A.S NISHSHANKA	JAGATH C. RAJAPAKSE	SCALE: V = 1:200
CHECKED:	C.E (DESIGN)	P.D. (C.P)	DATE : 08-04-2017
	K.A.S.R.KIIMARAARACHCHI	W.A.M. WIJEDASA	SHEET No. 1



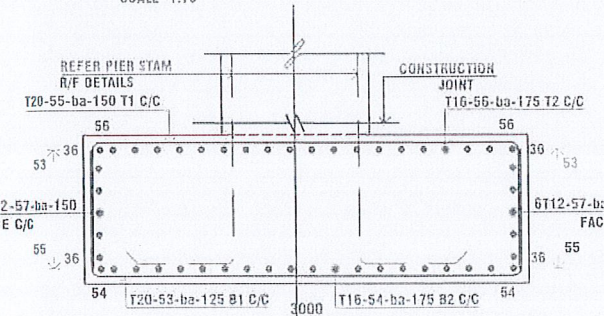
R/F PIER ELEVATION
SCALE - 1:75



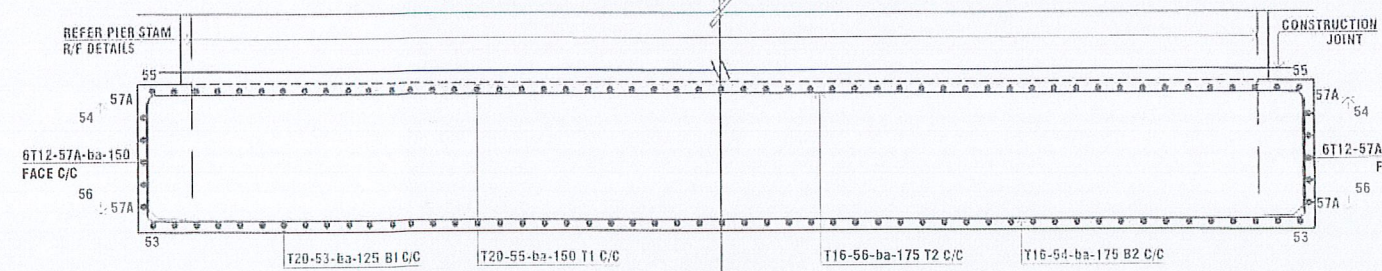
PIER ELEVATION
SCALE - 1:75



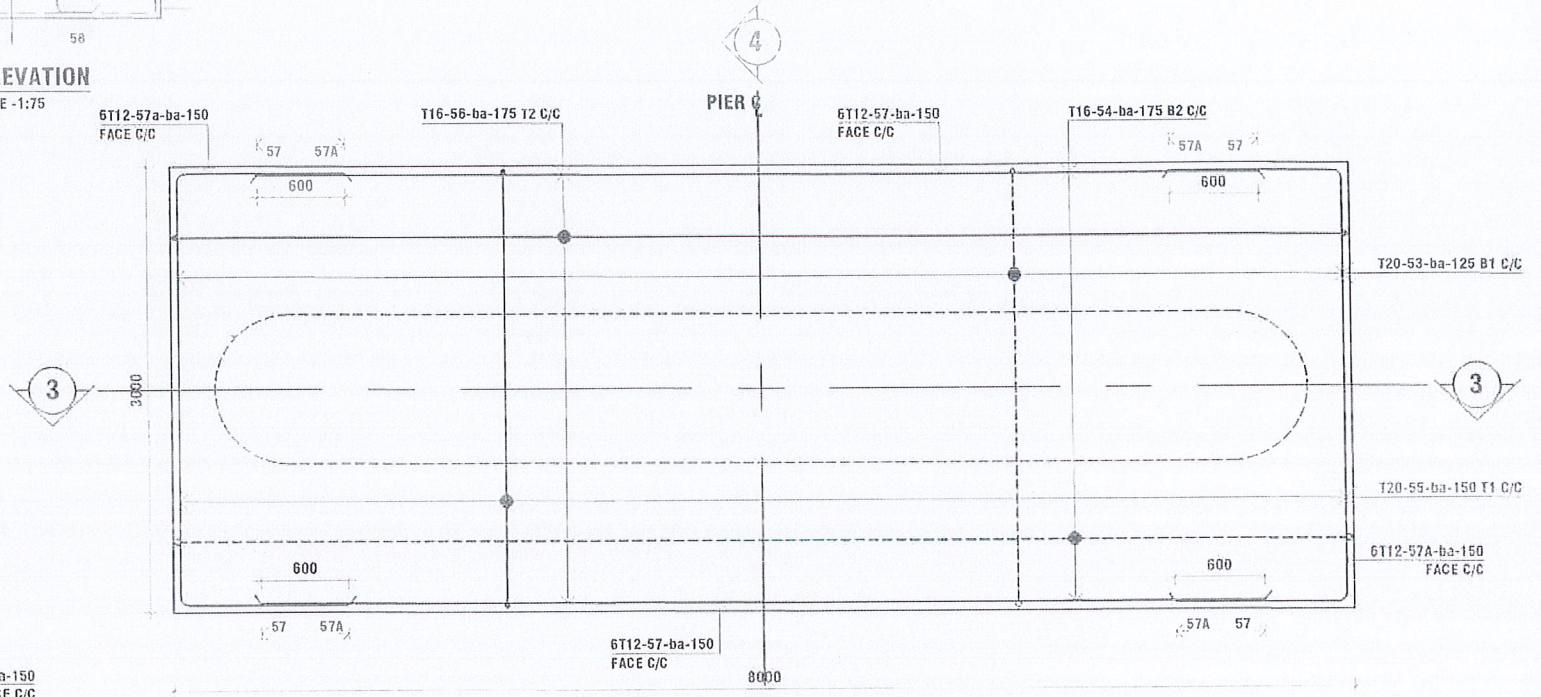
R/F PIER SECTION X-X
SCALE - 1:50



SECTION 4-4
SCALE - 1:50



SECTION 3-3
SCALE - 1:50

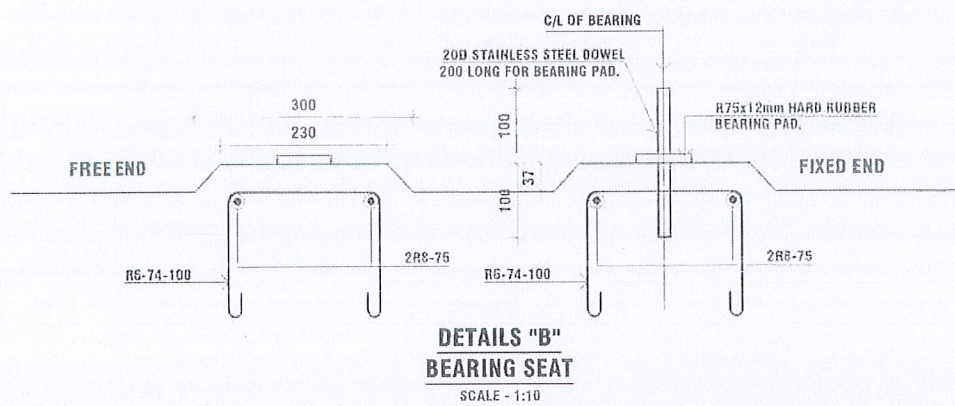
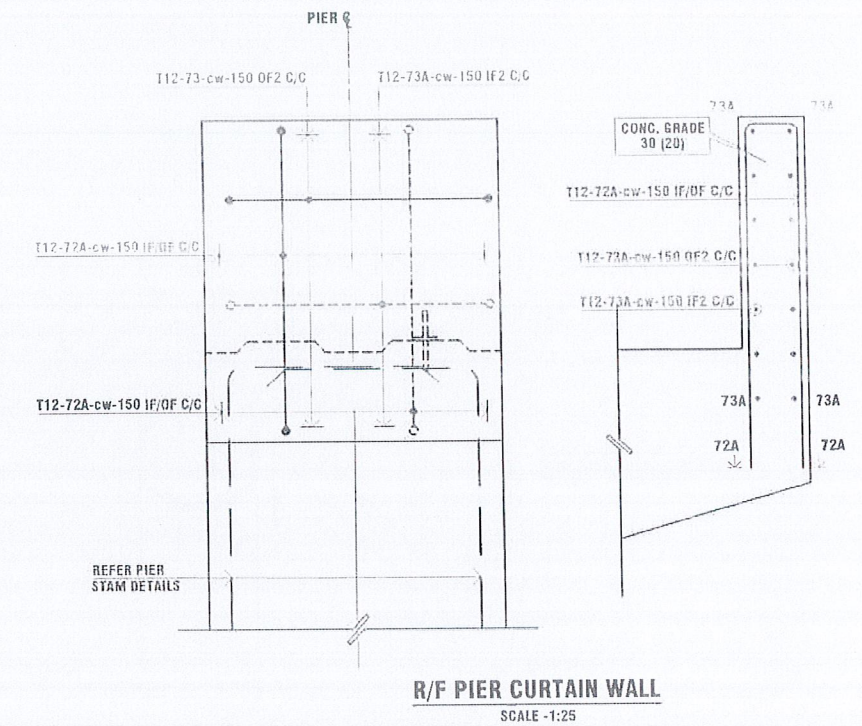
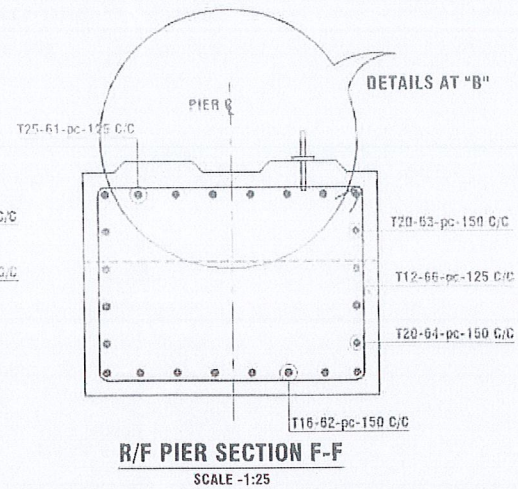
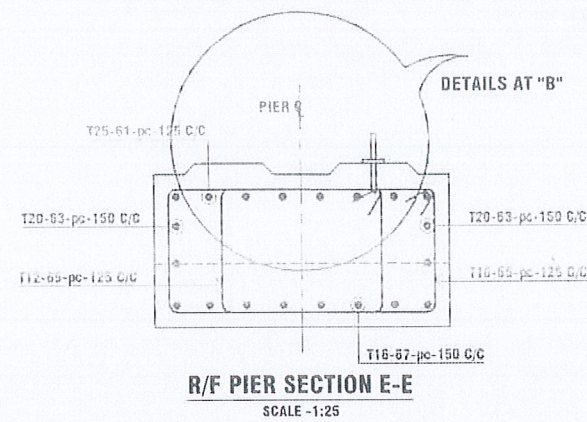
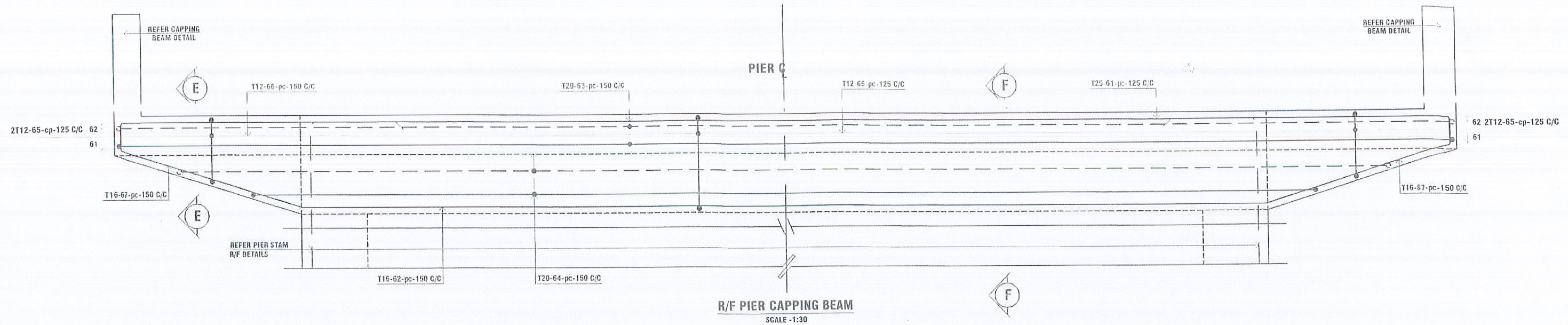


R/F PIER FOUNDATION
SCALE - 1:50

REV	DESCRIPTION	BY	DATE	GENERAL NOTE
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RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)

R/F DETAILS OF PIER			
SURVEYED & PLOTTED	DESIGNED	DRAWN	DRG.No : DD/D/CP/KDY/B/949/10-16
W.M.W.A.S NISHSHANKA	W.M.W.A.S NISHSHANKA	JAGATH C.RAJAPAKSE	SCALE
CHECKED	C.E (DESIGN)	P.D (C.P)	V = 1:200
T.W.IJANAYAKE	K.A.C.VIJAYARAJASEKERA	M.M.MIERALA	H = 1:1000
			DATE : 08-04-2017
			SHEET NO : 10

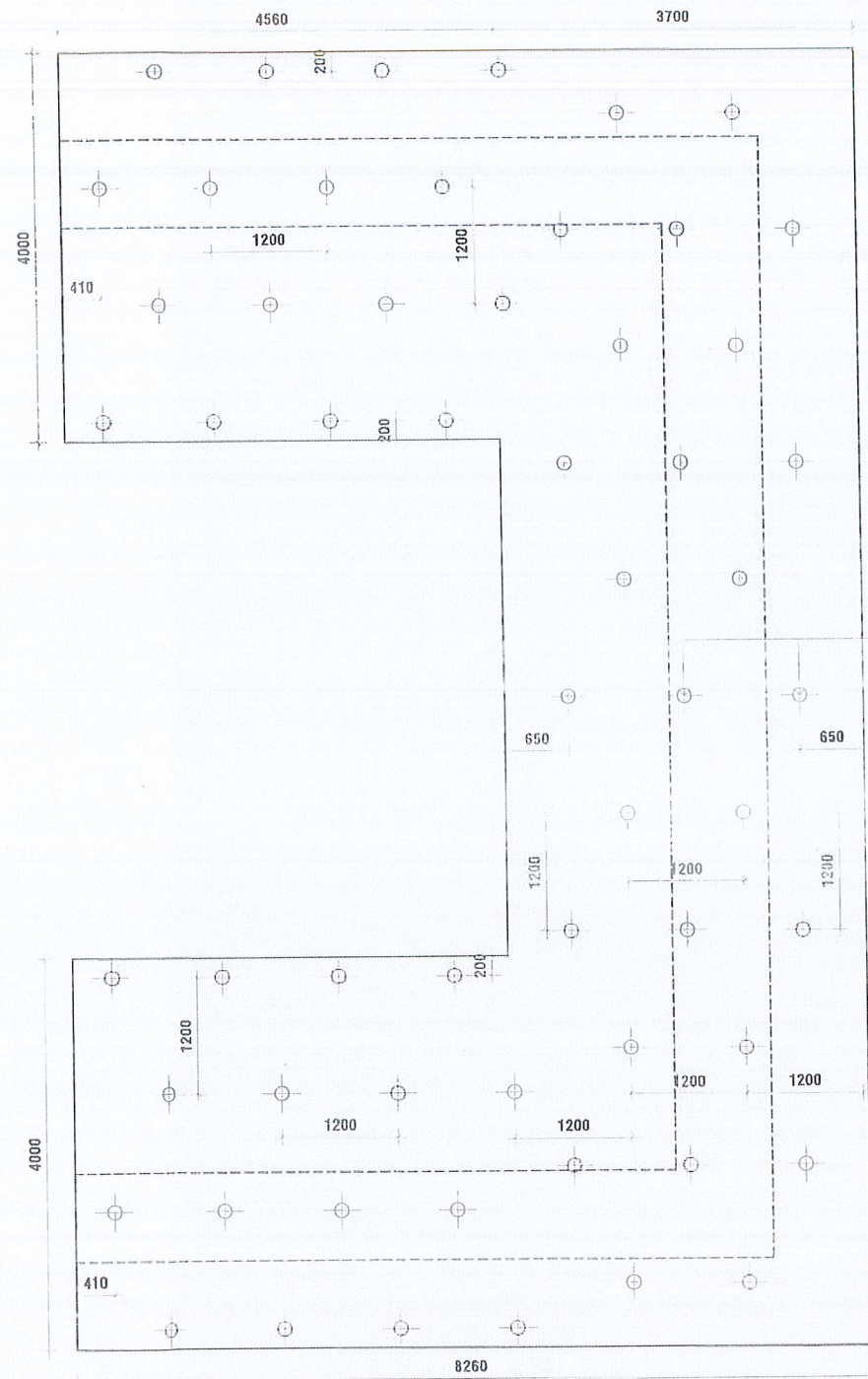


REV	DESCRIPTION	BY	DATE
00	TENDER ISSUED	R.D.A.	25-07-2024

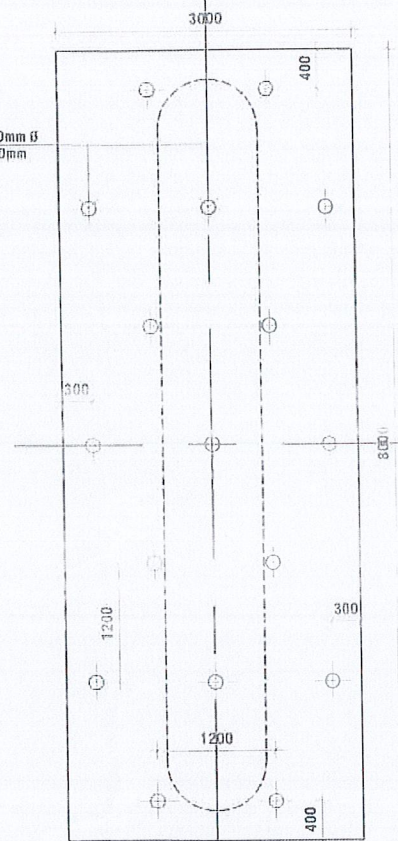
GENERAL NOTE -
1. ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. COORDINATES ARE IN ACCORDING TO SRI LANKA NATIONAL GRID
3. ELEVATIONS ARE IN ACCORDING TO MSL
4. SEE SPECIAL NOTES

RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)

R/F DETAILS OF PIER CAPPING BEAM			
SURVEYED & PLOTTED :	DESIGNED :	DRAWN :	DRG No : DD/D/CP/KDY/B/949/11-16
T WIJANAYAKE	W.M.W.A.S NISHSHANKA	JAGATH C. RAJAPAKSE	SCALE
CHECKED :	C E (DESIGN)	P D (C.P)	V = 1:200
T WIJANAYAKE	K.A.S.B.KUMARARACHCHI	W.A.M. WIJEPALA	H = 1:1000
			DATE : 08-04-2017
			SHEET No : 11



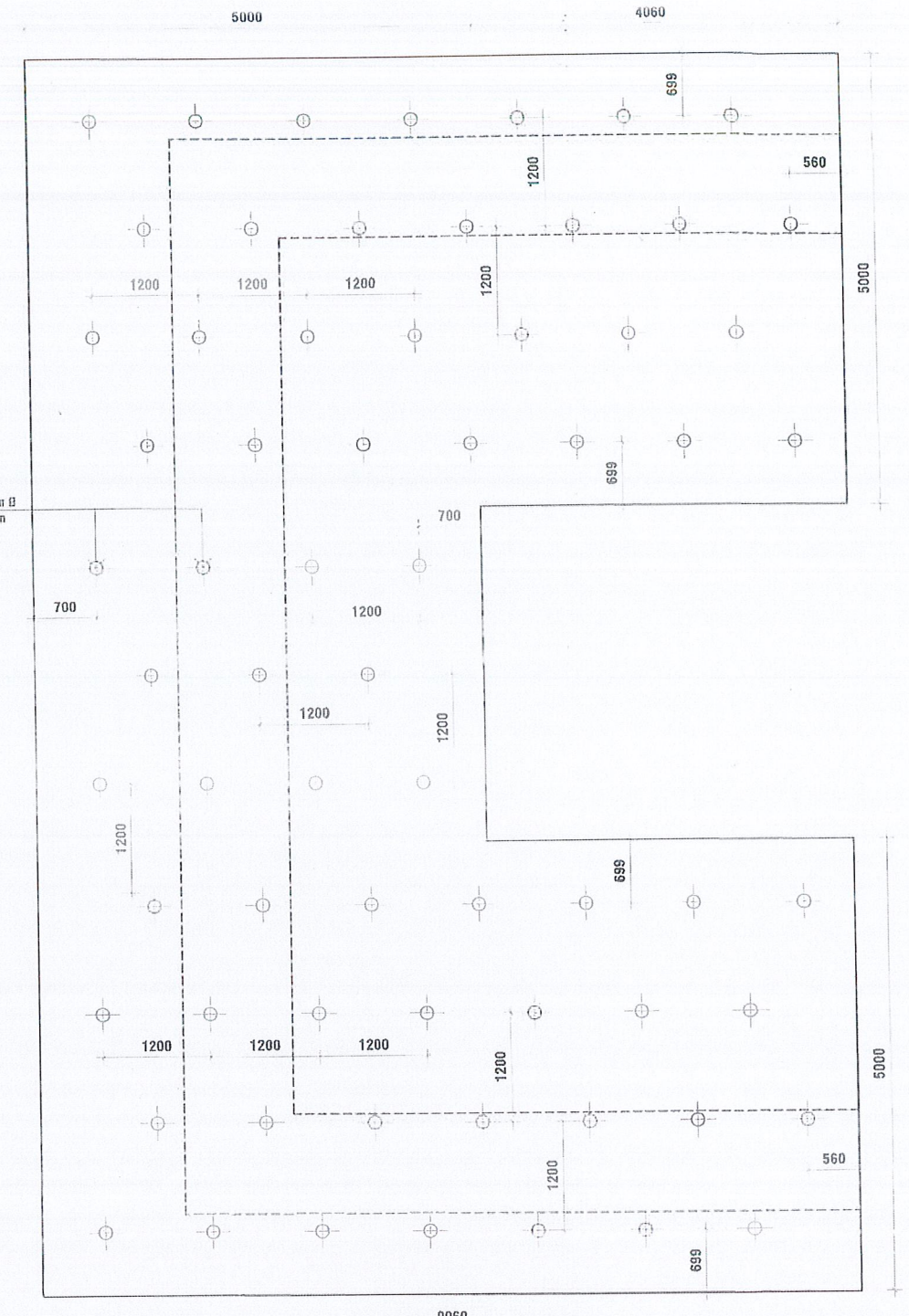
**R/F ABUTMENT FOUNDATION
(MADAWALA END)**
SCALE -1:50



PIER PLAN
SCALE -1:75

M.S. DOWELS 20mm Ø
1.8m LONG 1200mm
C/C STAGGERED.

M.S. DOWELS 20mm Ø
1.8m LONG 1200mm
C/C STAGGERED.



**R/F ABUTMENT FOUNDATION
(BAMBARELLA END)**
SCALE -1:75

M.S. DOWELS 20mm Ø
1.8m LONG 1200mm
C/C STAGGERED.

FOUNDATION DOWELS ARRANGEMENT ABUTMENT
SCALE 1:75

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT, HIGHWAYS
AND CIVIL AVIATION

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
S.W.R.D. BANDARANAYAKE MAWATHA, KANDY.
TEL : 0812388991 FAX : 0812388991 email : docskandy@gmail.com

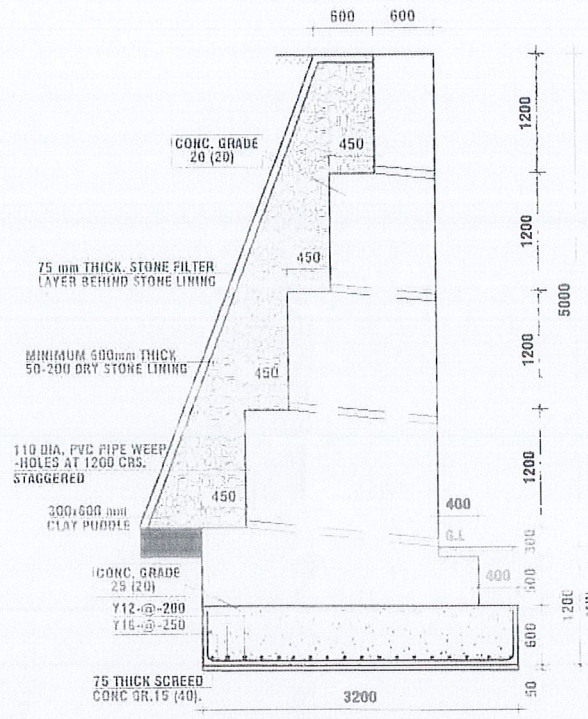
REV.	DESCRIPTION	BY	DATE
00	TENDER ISSUED	R.D.A.	25-07-2024

GENERAL NOTE :-
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED
2. COORDINATES ARE IN ACCORDING TO SRI LANKA NATIONAL GRID
3. ELEVATIONS ARE IN ACCORDING TO MSL
4. SEE SPECIAL NOTES

**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

FOUNDATION DOWELS ARRANGEMENT ABUTMENT AND PIER

SURVEYED & PLOTTED : T.WIJANAYAKE	DESIGNED : W.M.W.A.S.NISHSHANKA C.E.(DESIGN) K.A.S.B.KUMARAARACHCHI	DRAWN : JAGATH C.RAJAPAKSHE P.D (C.P) W.A.M. WIJEPALA	DRG.No. : DDI/CP/KDY/B/949/13-16 SCALE : V = 1:200 H = 1:1000	DATE : 08-04-2017 SHEET No : 12
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MASS C.RETAINING .TYPE - 9
SCALE -1:75

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT ,HIGHWAYS
AND CIVIL AVIATION

DESIGN OFFICE (C.P.),
ROAD DEVELOPMENT AUTHORITY
S.W.R.D.BANDARANAYAKE MAWATHA, KANDY.
TEL : 0812388991 FAX 0812388991 email dcp@rtda.lk

REV	DESCRIPTION	BY	DATE
00	TENDER ISSUED	RDA	25-07-2024

GENERAL NOTE -
1 ALL DIMENSION ARE IN METERS UNLESS OTHERWISE SPECIFIED
2 COORDINATES ARE IN ACCORDING TO SRI LANKA NATIONAL GRID
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4 SEE SPECIAL NOTES

**RECONSTRUCTION OF BRIDGE NO 33/10 ON
KATUGASTOTA - MADAWALA -
BAMBARELLA ROAD. (B-205)**

TYPICAL MASS CONCRETE WALL

SURVEYED & PLOTTED	DESIGNED : W.M.W.A.S.NISHSHANKA	DRAWN : JAGATH.C.RAJAPAKSE	DRG No. : DD/D/CP/KDY/B/949/14-16
CHECKED : T.WIJANAYAKE	C.E.(DESIGN) K.A.S.R.KUMARAARACHCHI	P.D. (C.P) W.A.M.WIJEPALA	SCALE V = 1:200 H = 1:1000
			DATE : 08-04-2017 SHEET No. 1/1