



NAVI MUMBAI MUNICIPAL CORPORATION

DESIGN & CONSTRUCTION OF BRIDGE LINK CONNECTING AIROLI-GHANSOLI ALONG THE CREEK, NAVI MUMBAI

VOLUME-IV TENDER DRAWINGS PART - 04

Submitted by:



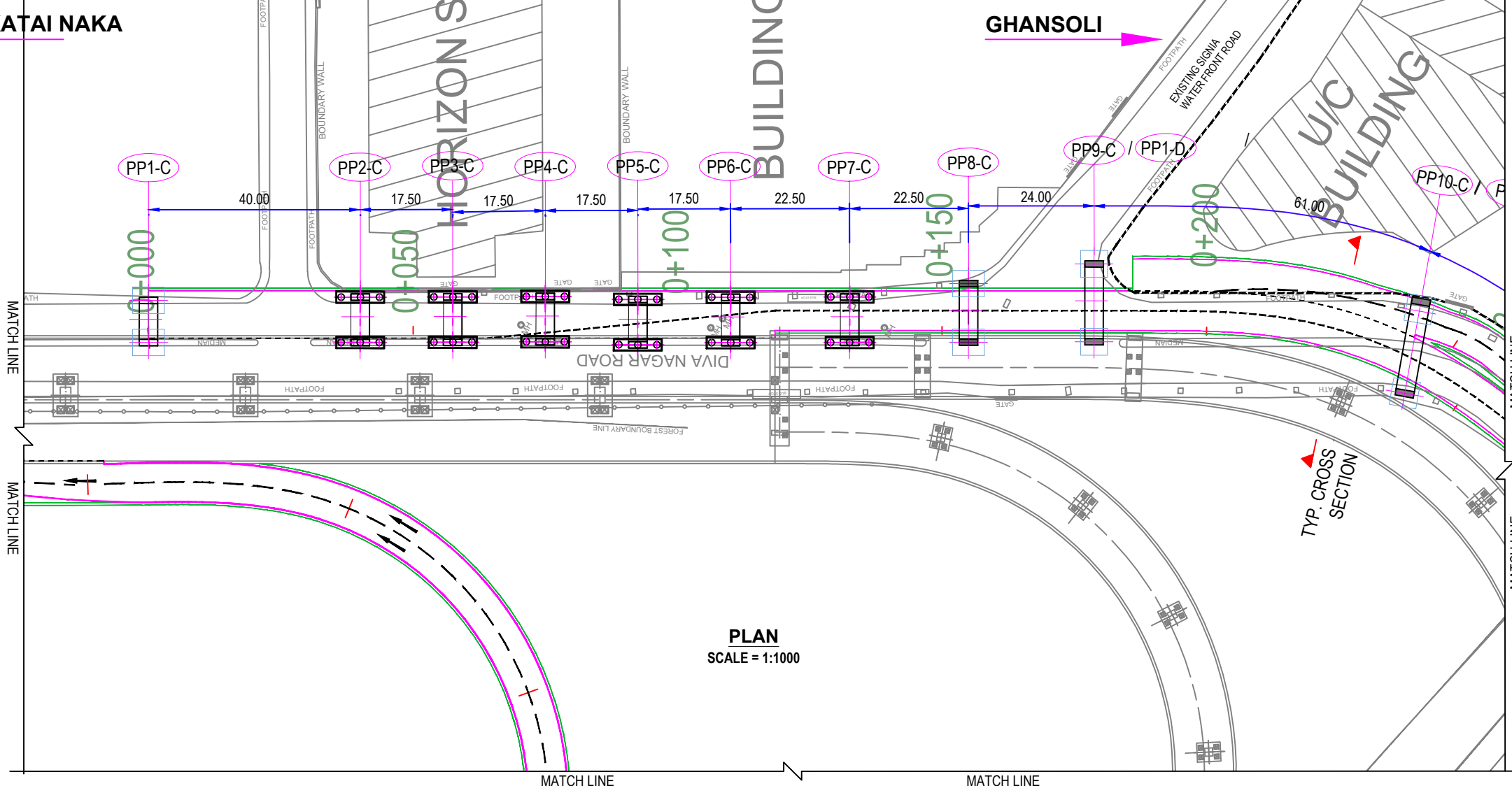
A A K A R A B H I N A V
Consultants Pvt Ltd.

ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS
C-401-410, KUKREJA CENTER, PLOT NO.13, SECTOR - 11, C.B.D.
BELAPUR, NAVI MUMBAI - 400 614.
[: +91 022 27580192, FAX: 91-022-27572533
E-MAIL: info@akarabhinav.com
Website: akarabhinav.com

BRIDGE-C

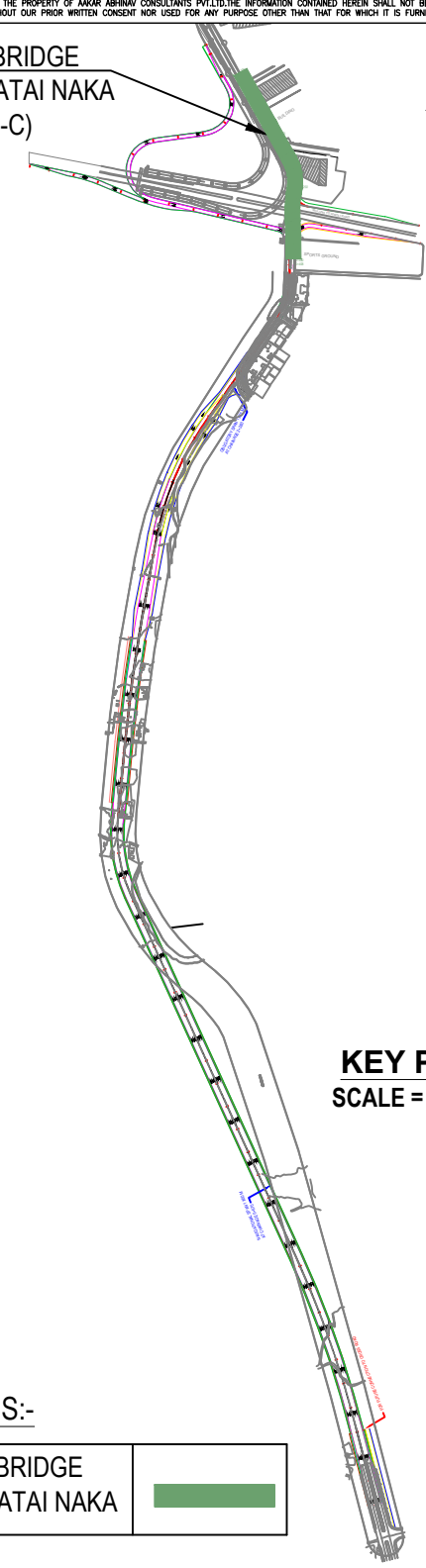
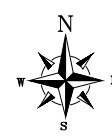
KATAI NAKA

GHANSOLI

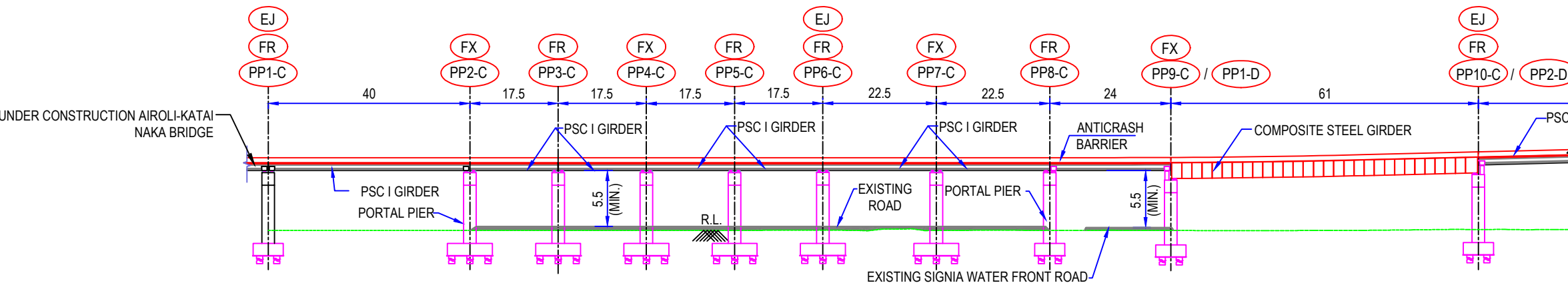


PLAN
SCALE = 1:1000

2 LANE BRIDGE
FROM KATAI NAKA
(BRIDGE-C)



KEY PLAN
SCALE = 1:15000



LONGITUDINAL SECTION
SCALE = 1:1000

LEGENDS:-

2 LANE BRIDGE FROM KATAI NAKA	
----------------------------------	--

NOTES:-

- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE MENTIONED.
- DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- FOR RE WALL CROSS SECTIONS REFER HIGHWAY DRAWINGS..

LEGEND:-

- EJ :- EXPANSION JOINT
- FR :- FREE END
- FX :- FIXED END

REFERENCES:-

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.

CONSULTING ENGINEERS:
AAKAR ABHINAV
CONSULTANTS PRIVATE LIMITED
ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS
C-401-410, KURUREJA CENTER, PLOT NO.13, SECTOR - 11, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.
[+91 822 27580192, FAX: 91-022-27572533]
E-MAIL: info@akkarabhinav.com
Website: akkarabhinav.com



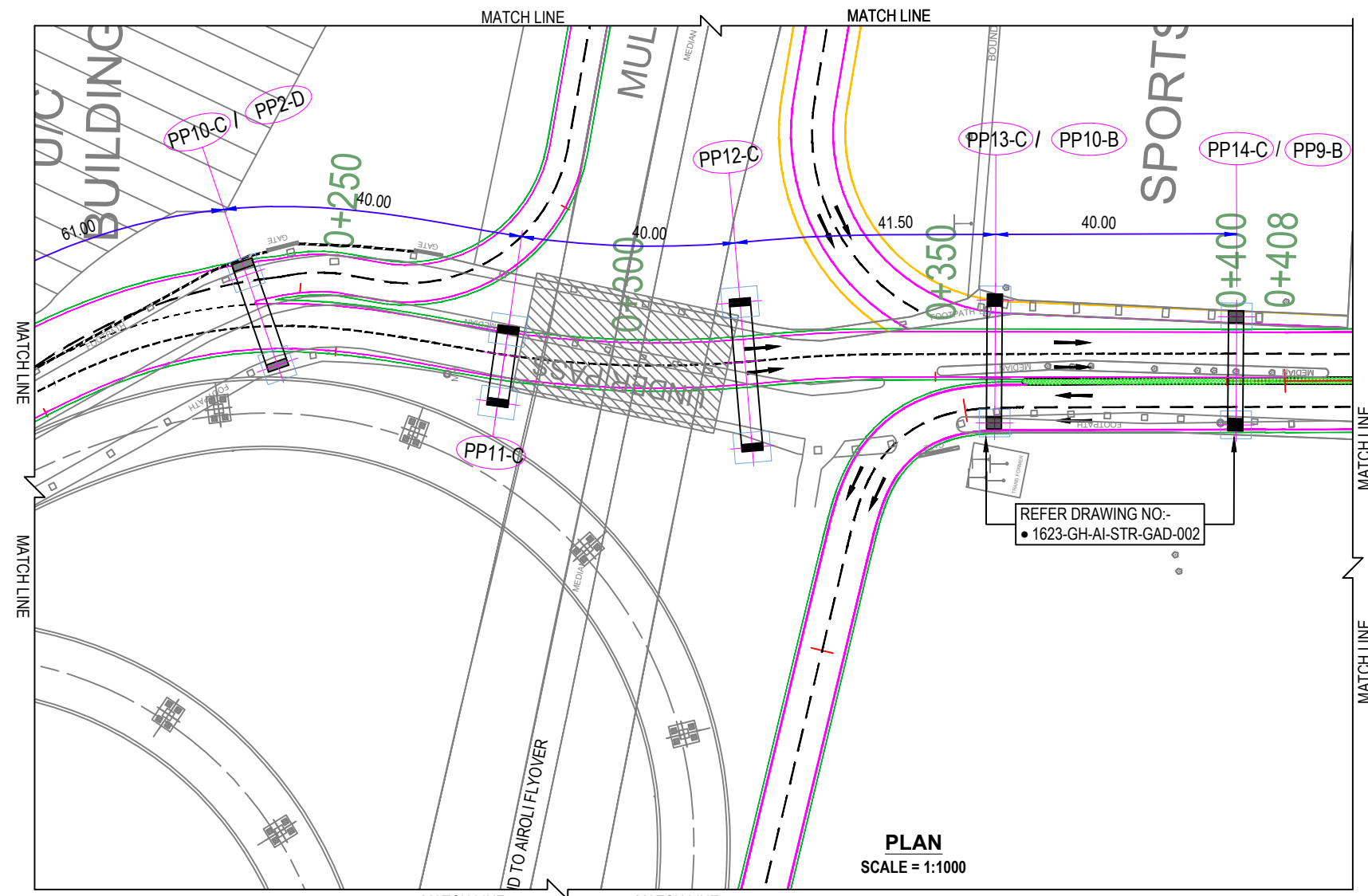
CLIENT:

**NAVI MUMBAI
MUNICIPAL CORPORATION**

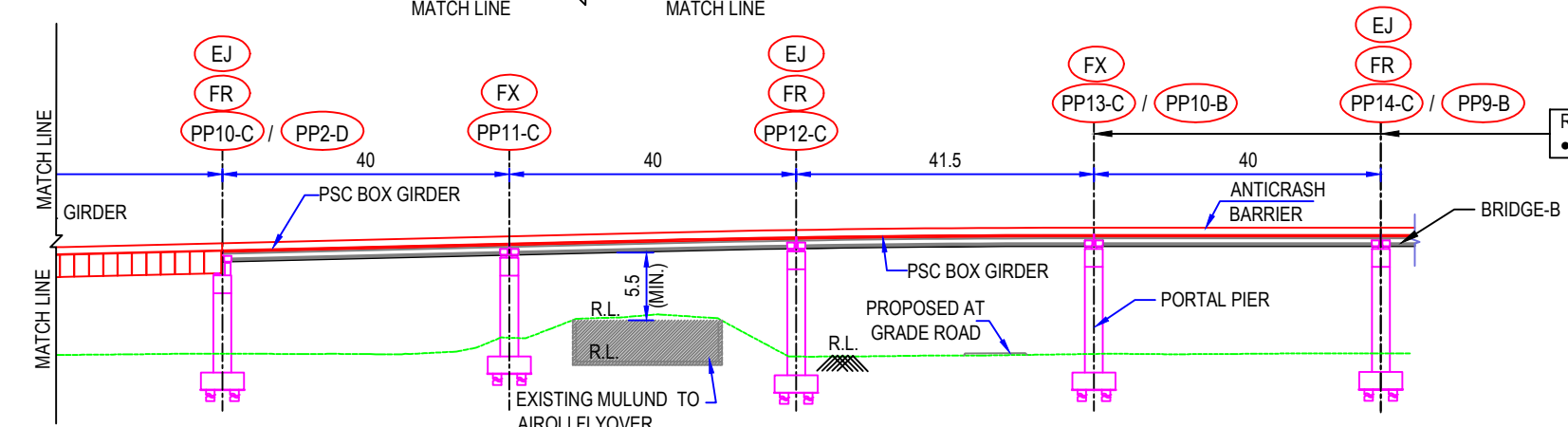
REV.	FOR TENDER	REVISION DETAILS	S.T.	DRN BY	DATE	D.M.	CKD BY	DATE	M.K.	APRD BY	DATE
10											
9											
8											
7											
6											
5											
4											
3											
2											
1											

DRAWING		DESIGN		APPROVED BY	PROJECT :
DRAWING BY	CHECKED BY	DESIGN BY	CHECKED BY		
SISIRA T.	DIVYA M.	NEHAL B / DIVYA M.	DIVYA M.	M. KHAN	CONSTRUCTION OF CREEK BRIDGE CONNECTING GHANSOLI - AIROLI ALONG PALM BEACH ROAD AT GHANSOLI, NAVI MUMBAI ON EPC MODE.
DATE: 09.01.2023					TITLE : GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 2)

DRG NO : 1623-GH-AI-STR-GAD-003	PROJECT NO. 1623	REV. RO	SCALE : AS SHOWN	A3
---------------------------------	------------------	---------	------------------	----



PLAN
SCALE = 1:1000



PROP ROAD LEVELS	17.873	18.834	19.683	19.948	19.948
EX GR LEVELS	3.448	6.285	3.052	3.430	3.508
CUT/FILL	14.425	12.549	16.631	16.518	16.440
CHAINAGE	240.000	280.000	320.000	361.500	401.500

LONGITUDINAL SECTION
SCALE = 1:1000

- LEGEND:-
- EJ :- EXPANSION JOINT
 - FR :- FREE END
 - FX :- FIXED END

CONSULTING ENGINEERS:
AAKAR ABHINAV
CONSULTANTS PRIVATE LIMITED
ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS
C-401-410, KURKUREJA CENTER, PLOT NO.13, SECTOR - 11, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.
[+91 822 27580192, FAX: 91-022-27572533]
E-MAIL: info@aaakarabhinav.com
Website: aakarabhinav.com



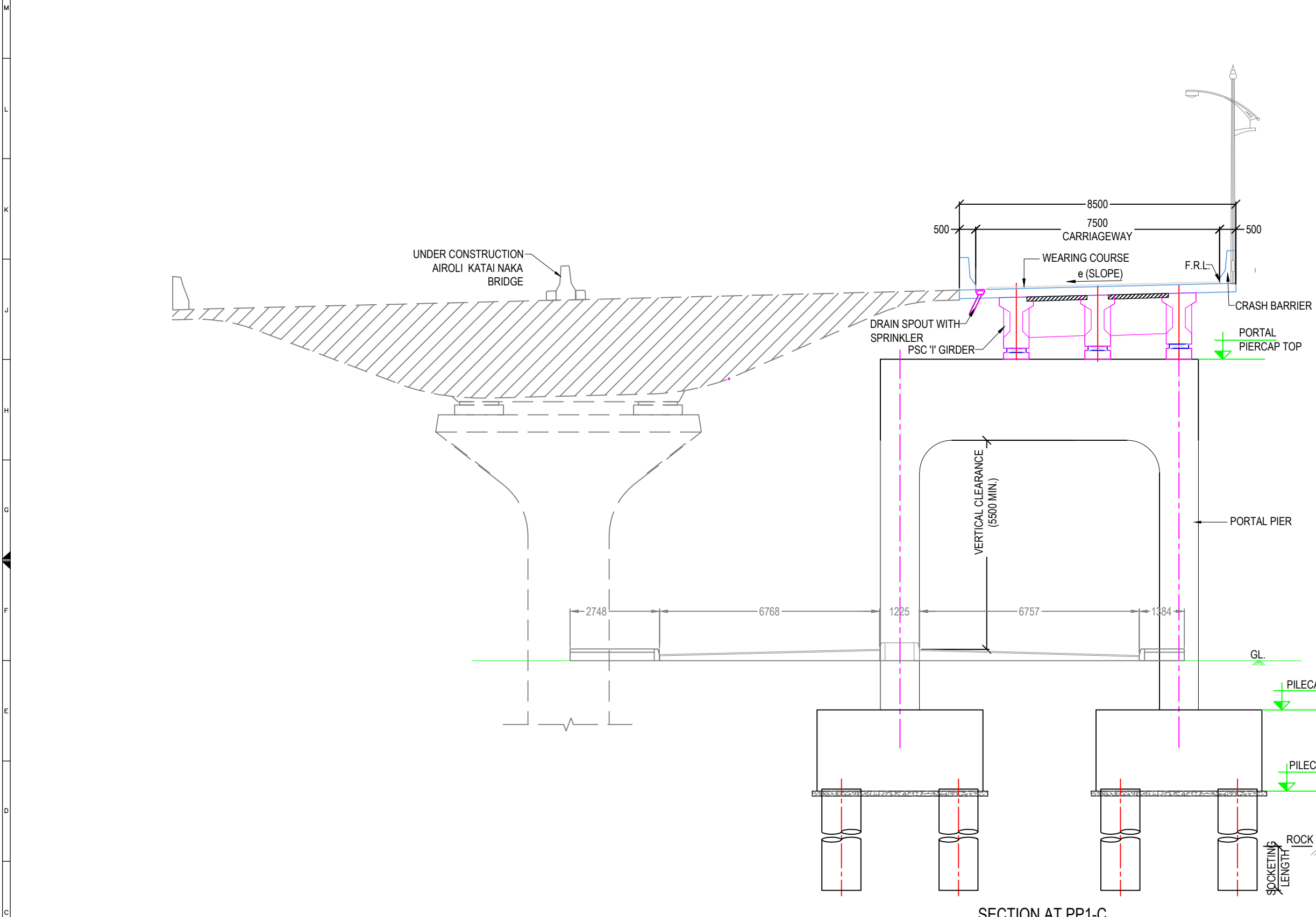
CLIENT:

NAVI MUMBAI
MUNICIPAL CORPORATION

RO	FOR TENDER	REV.	REVISION DETAILS	S.T	09.01.2023	D.M	09.01.2023	M.K	09.01.2023
DRN BY	DATE	CKD BY	DATE	APRD BY	DATE	DATE	DATE	DATE	DATE

DRAWING	DESIGN	APPROVED BY
DRAWING BY	DESIGN BY	
CHECKED BY	CHECKED BY	
SISIRA T.	DIVYA M.	M. KHAN
	NEHAL B./ DIVYAM.	

PROJECT :	CONSTRUCTION OF CREEK BRIDGE CONNECTING GHANSOLI - AIROLI ALONG PALM BEACH ROAD AT GHANSOLI, NAVI MUMBAI ON EPC MODE.
TITLE :	GENERAL ARRANGEMENT DRAWING (SHEET 2 OF 2)
DRG NO	1623-GH-AI-STR-GAD-003
PROJECT NO.	1623
REV.	RO
SCALE	: AS SHOWN
A3	



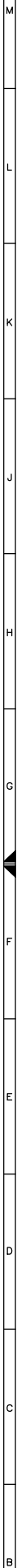
SECTION AT PP1-C
(SCALE 1:125)

REFERENCES:-

GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES

*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



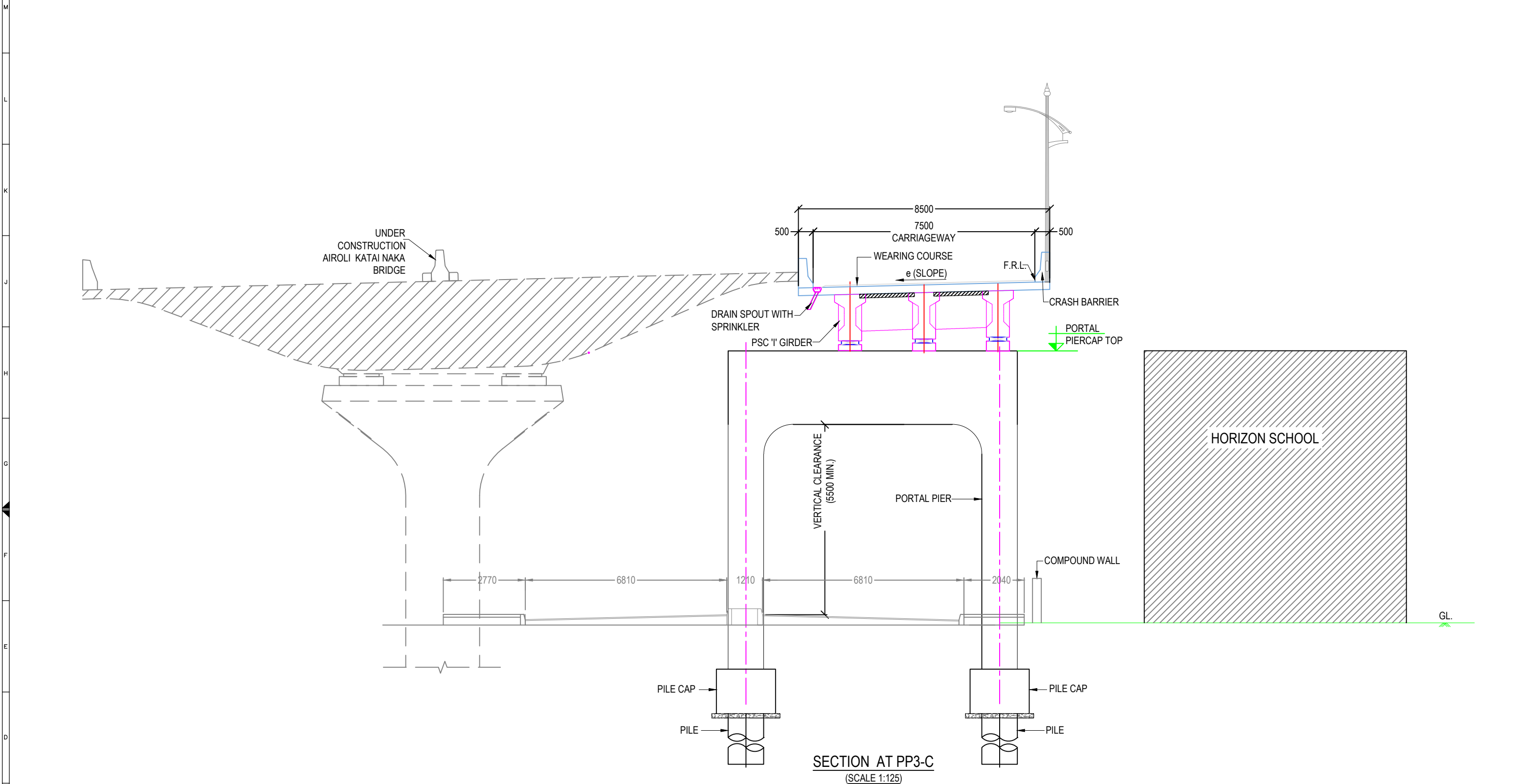
SECTION AT PP2-C
(SCALE 1:125)

REFERENCES:-

GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES

*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



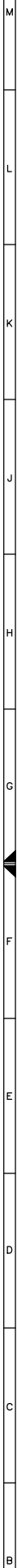
SECTION AT PP3-C
(SCALE 1:125)

REFERENCES:-

GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES

*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



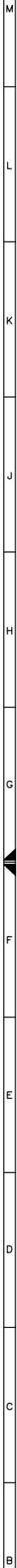
SECTION AT PP4-C
(SCALE 1:125)

REFERENCES:-

GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES

*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



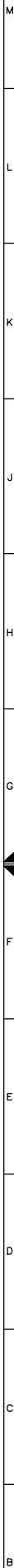
SECTION AT PP5-C
(SCALE 1:125)

REFERENCES:-

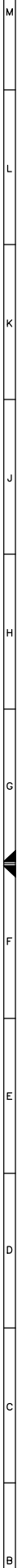
GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES

*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



P&P AND CORRESPONDING GAD.



PROJECT :	CONSTRUCTION OF CREEK BRIDGE CONNECTING GHANSOLI - AIROLI ALONG PALM BEACH ROAD AT GHANSOLI, NAVI MUMBAI ON EPC MOD
TITLE :	CROSS SECTION AT PP7-C

[illegible]

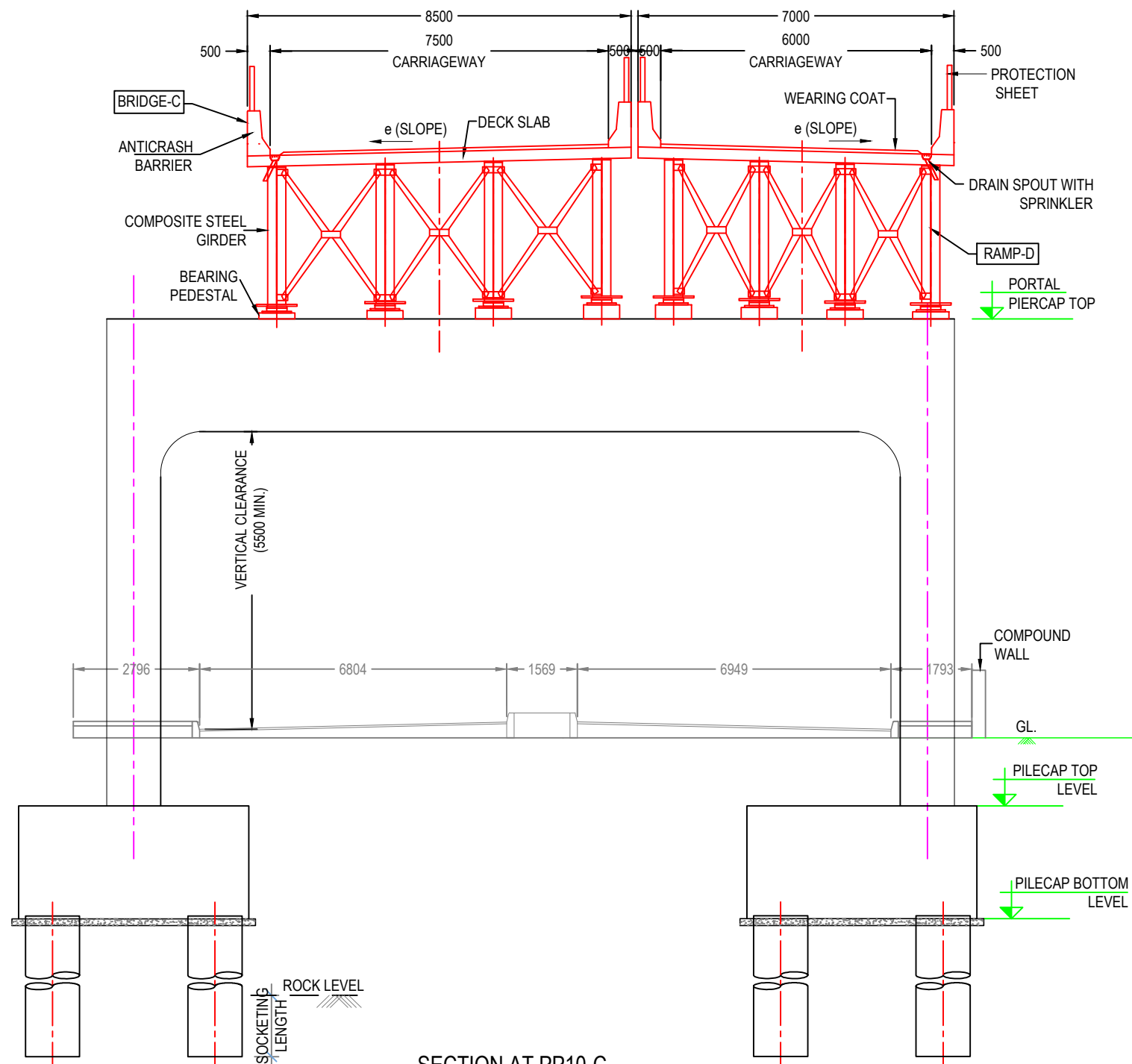
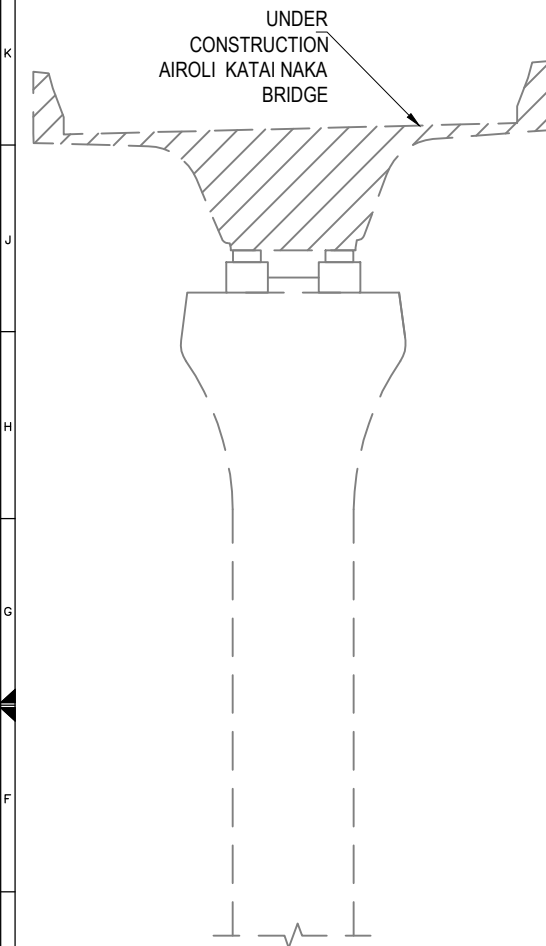
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.

	DRAWING		DESIGN	
	DRAWING BY	CHECKED BY	DESIGN BY	CHECKED BY

Figure 10 illustrates typical pile cap and pile connection details. The figure is divided into three cross-sectional views of a pile cap and its supporting piles.

- Left View:** Shows a pile cap with four piles. The piles are labeled 'E' and 'D' on the left side.
- Middle View:** Shows a pile cap with four piles. The piles are labeled 'ROCK LEVEL' and 'SOCKETING LENGTH' on the right side.
- Right View:** Shows a pile cap with four piles. The piles are labeled 'PILECAP TOP LEVEL' and 'PILECAP BOTTOM LEVEL' on the right side.

TITLE : CROSS SECTION AT PP9-C



SECTION AT PP10-C
(SCALE 1:125)

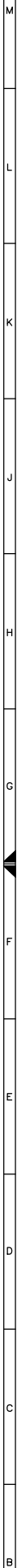
RELIANCE TRENDS AREA
(Sunteck)

REFERENCES:-

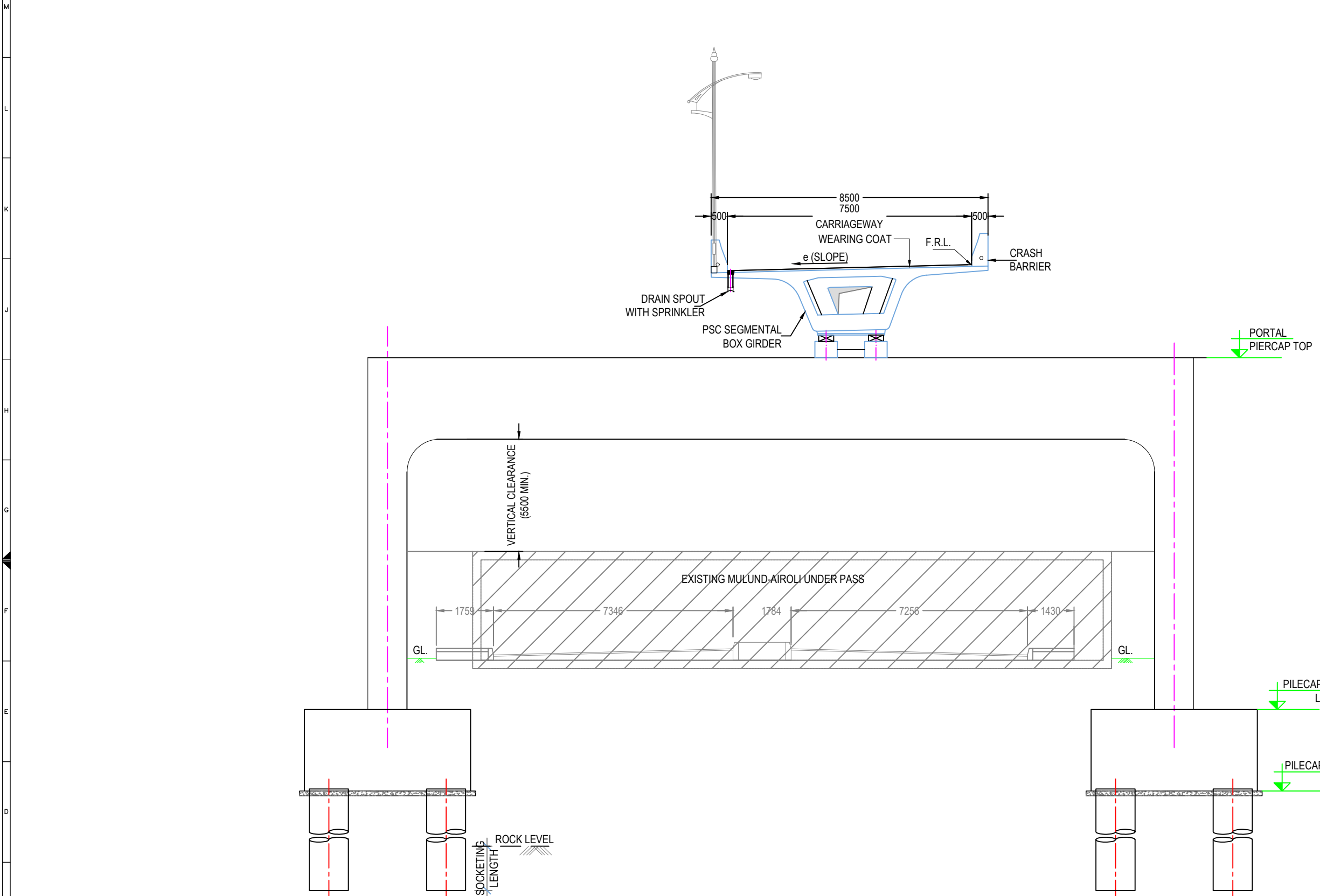
GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003 & 004

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES

*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



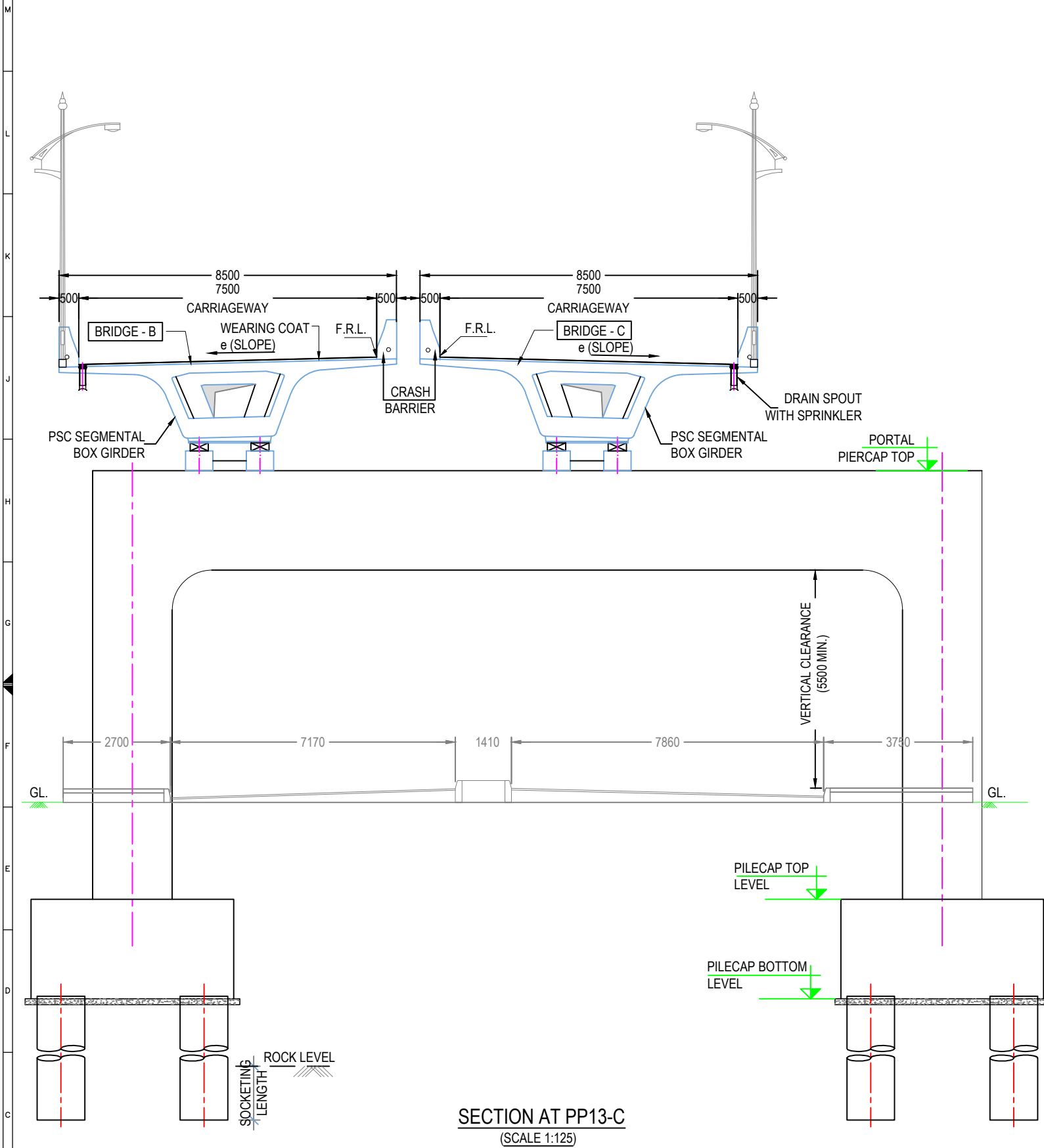
P&P AND CORRESPONDING GAD.



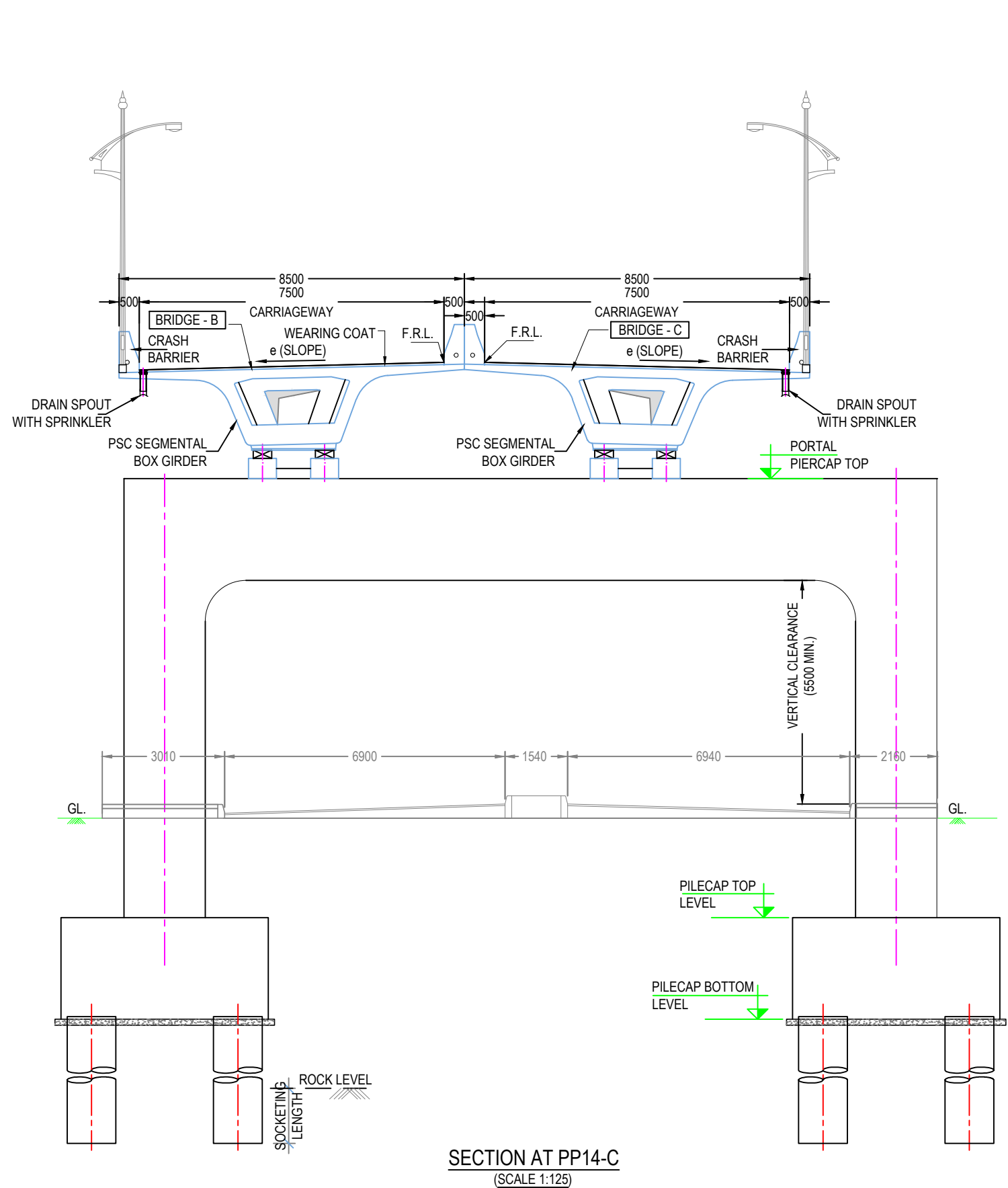
SECTION AT PP12-C
(SCALE 1:125)

REFERENCES:-

GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003
FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.



SECTION AT PP13-C
(SCALE 1:125)



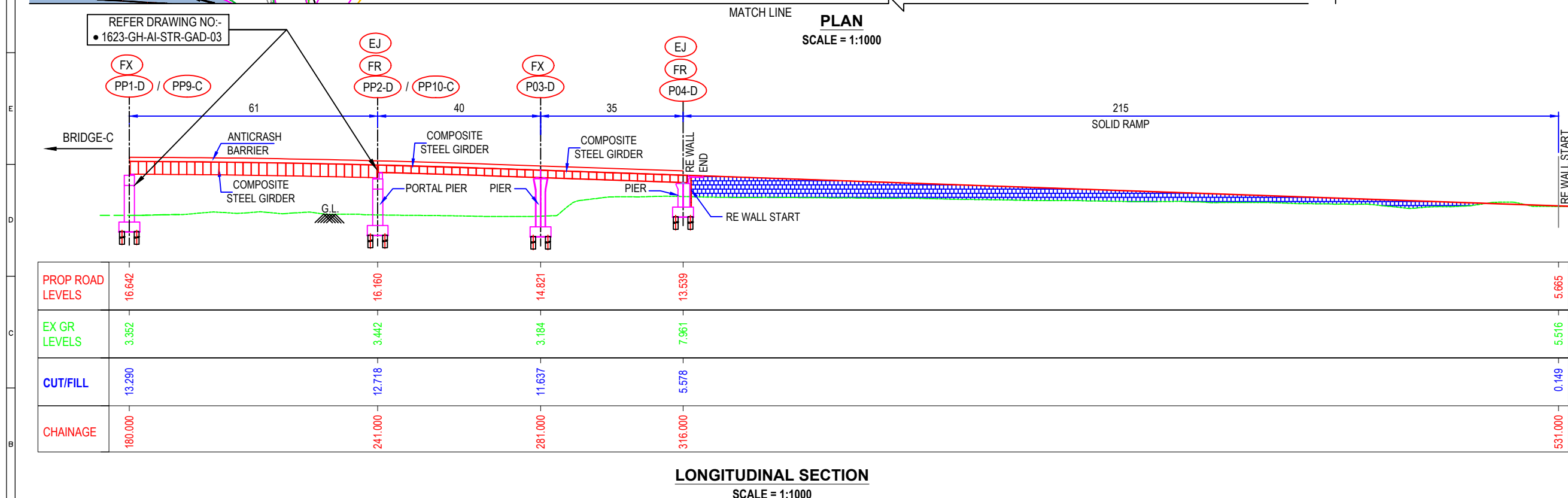
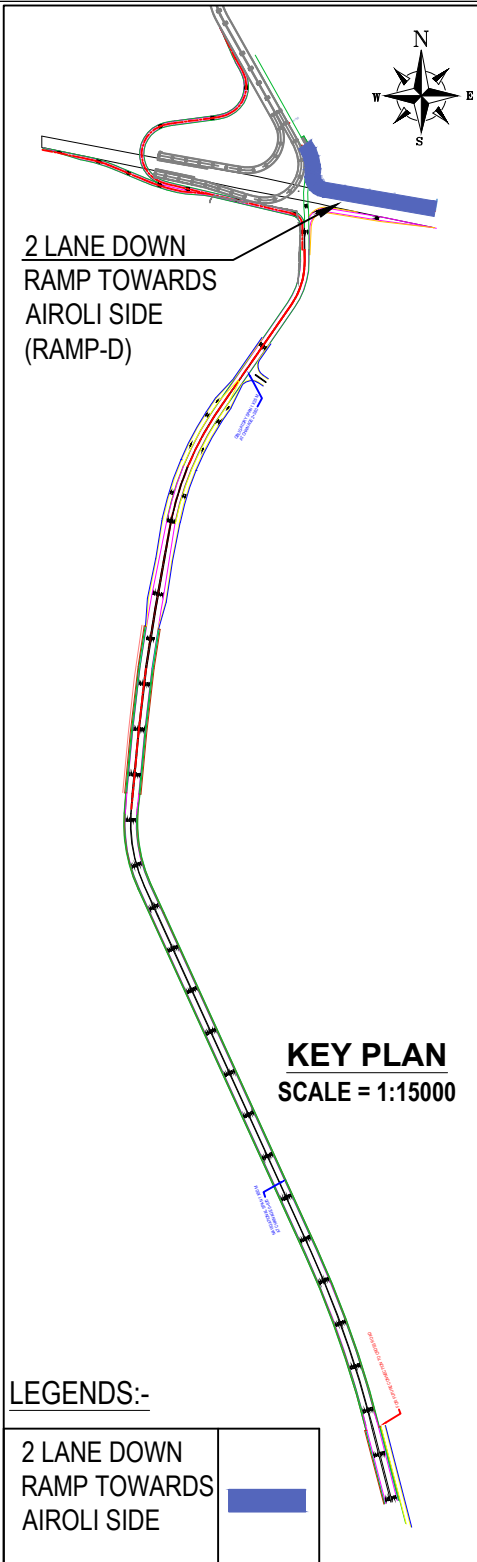
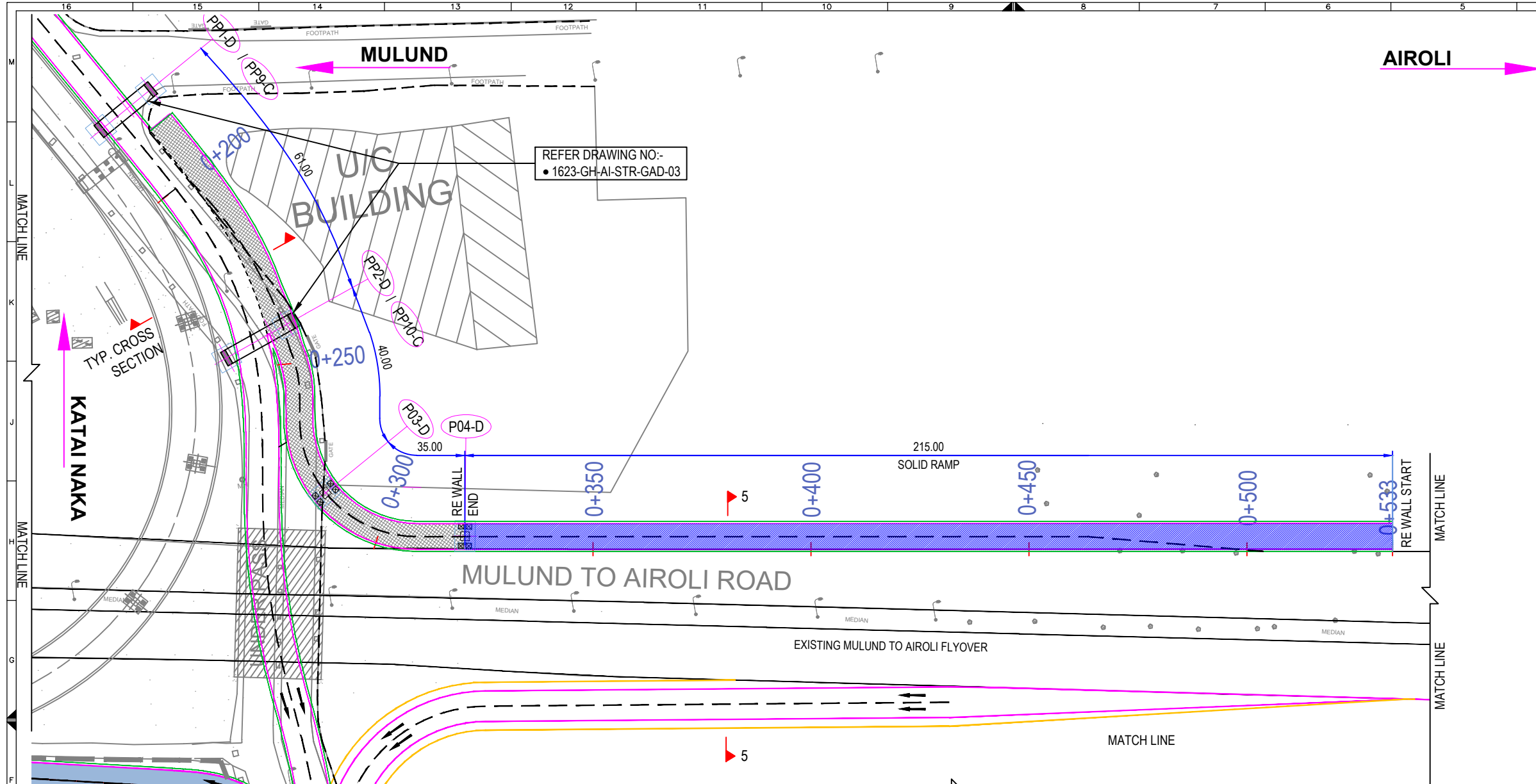
SECTION AT PP14-C
(SCALE 1:125)

REFERENCES:-

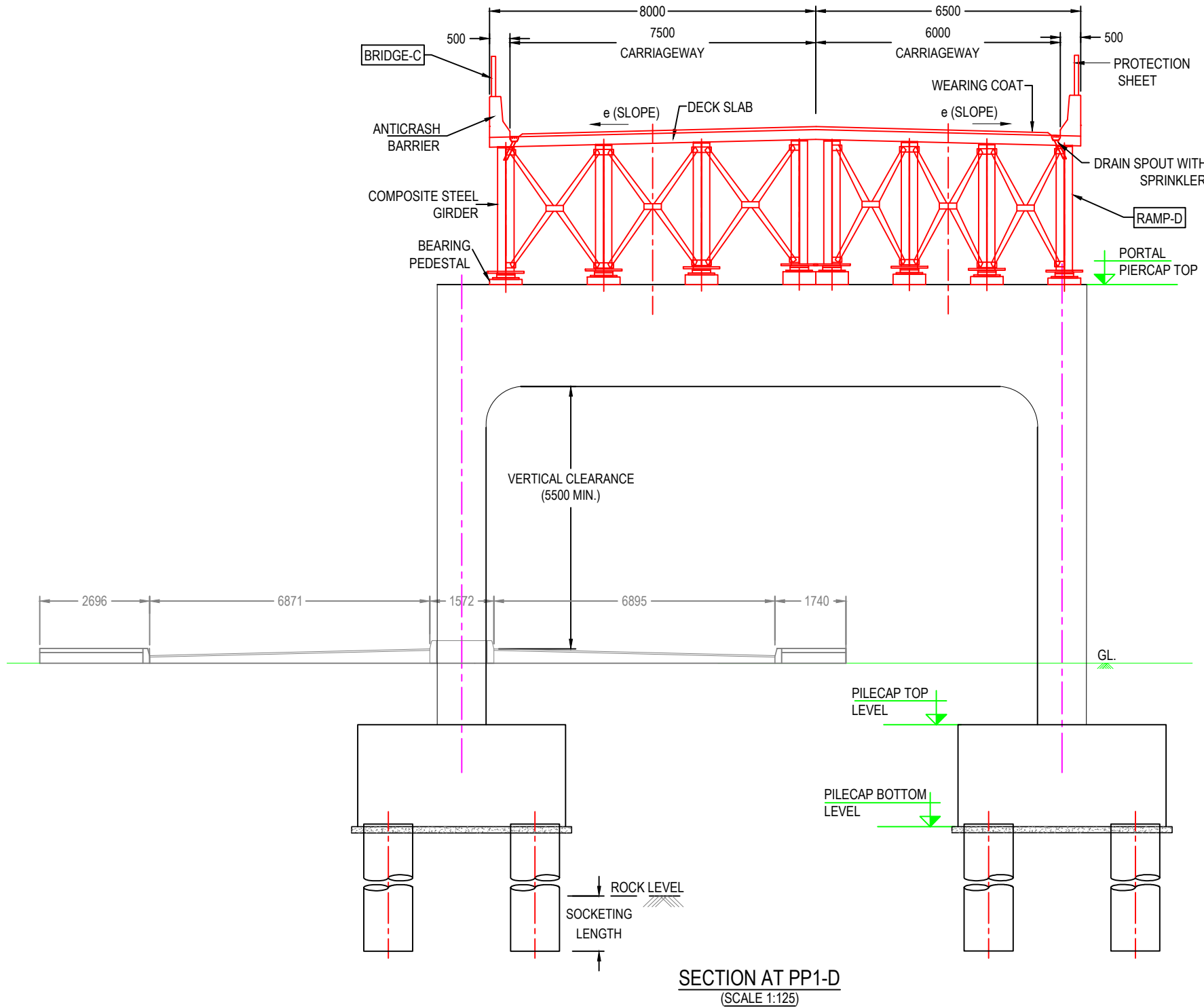
GAD REF DRG NO :- 1623-GH-AI-STR-GAD-002 & 003
FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.

RAMP-D

THIS DRAWING AND DESIGN IS THE PROPERTY OF AAKAR ABHINAV CONSULTANTS PVT.LTD.THE INFORMATION CONTAINED HEREIN SHALL NOT BE COPIED OR MADE USE OF EITHER IN FULL OR PART WITHOUT OUR PRIOR WRITTEN CONSENT NOR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS FURNISHED.



- LEGENDS:-**
- 2 LANE DOWN RAMP TOWARDS AIROLI SIDE
- NOTES:-**
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE MENTIONED.
 - DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - FOR RE WALL CROSS SECTIONS REFER HIGHWAY DRAWINGS.
- REFERENCES:-**
- FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH P&P AND CORRESPONDING GAD.



SECTION AT PP1-D
(SCALE 1:125)

REFERENCES:-
GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003 & 004
FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH P&P AND CORRESPONDING GAD.

CONSULTING ENGINEERS:
AAKAR ABHINAV
CONSULTANTS PRIVATE LIMITED
ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS
C-401-410, KURKURIA CENTER, PLOT NO.13, SECTOR - 11, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.
[: +91 022 27580192, FAX: 91-022-27572533
E-MAIL: info@akurabhinav.com
Website: akurabhinav.com



CLIENT:

NAVI MUMBAI
MUNICIPAL CORPORATION

REV.	DESCRIPTION	DATE	BY	CHECKED BY	DATE	BY	CHECKED BY	DATE
10	FOR TENDER	09.01.2023	S.T		09.01.2023	D.M		09.01.2023
9	REVISION DETAILS							
8								
7								
6								
5								
4								
3								
2								
1								

DRAWING		DESIGN		APPROVED BY
DRAWING BY	CHECKED BY	DESIGN BY	CHECKED BY	
SISIRA T.	DIVYA M.	DIVYA M.	M. KHAN	VINAY S.
09.01.2023		09.01.2023		

PROJECT : CONSTRUCTION OF CREEK BRIDGE CONNECTING GHANSOLI - AIROLI ALONG PALM BEACH ROAD AT GHANSOLI, NAVI MUMBAI ON EPC MODE.			
TITLE : CROSS SECTION AT PP1-D			
DRG NO: 1623-GH-AI-STR-TCS-022	PROJECT NO. 1623	REV. R0	SCALE: AS SHOWN
		A3	

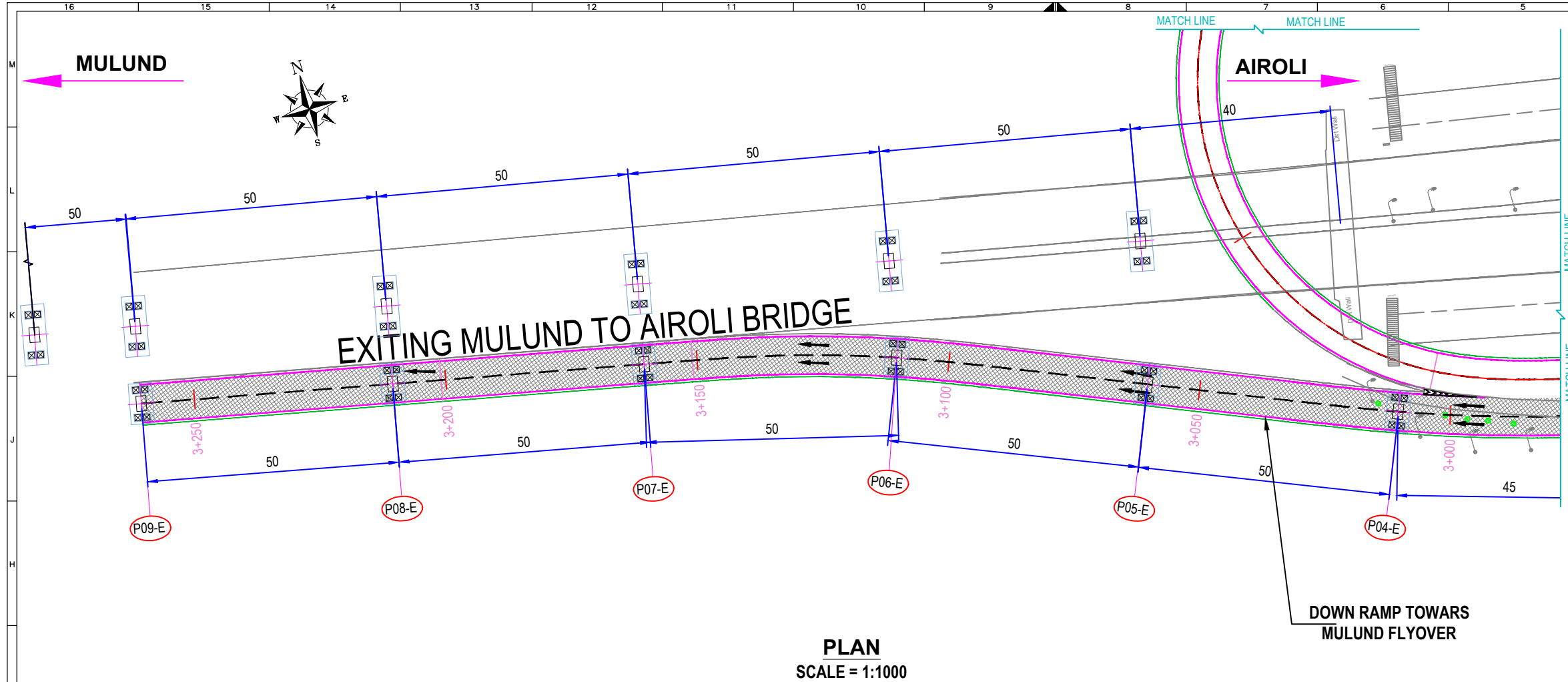


7000
6000
CARRIAGEWAY
500
500
PROTECTION SHEET
ANTICRASH BARRIER
WEARING COAT
DECK SLAB
e (SLOPE)
COMPOSITE STEEL GIRDER
PIERCAP TOP LEVEL
RCC PIER
G.L.
PIERCAP TOP LEVEL
PIERCAP BOTTOM LEVEL
ROCK LEVEL
SOCKETING LENGTH

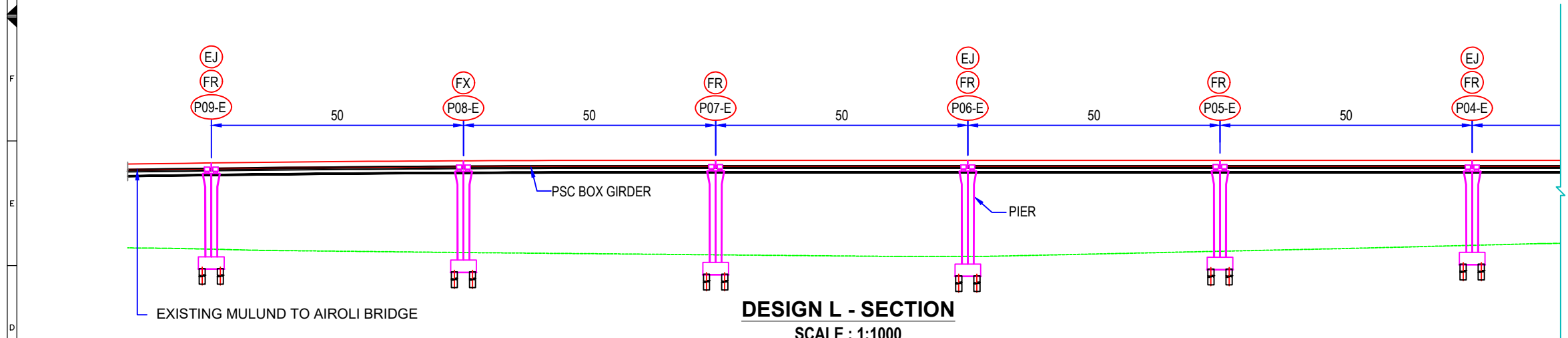
CROSS SECTION FOR P03-D & P04-D
(SCALE 1:100)

REFERENCES:-
GAD REF DRG NO :- 1623-GH-AI-STR-GAD-003 & 004
FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.

RAMP-E

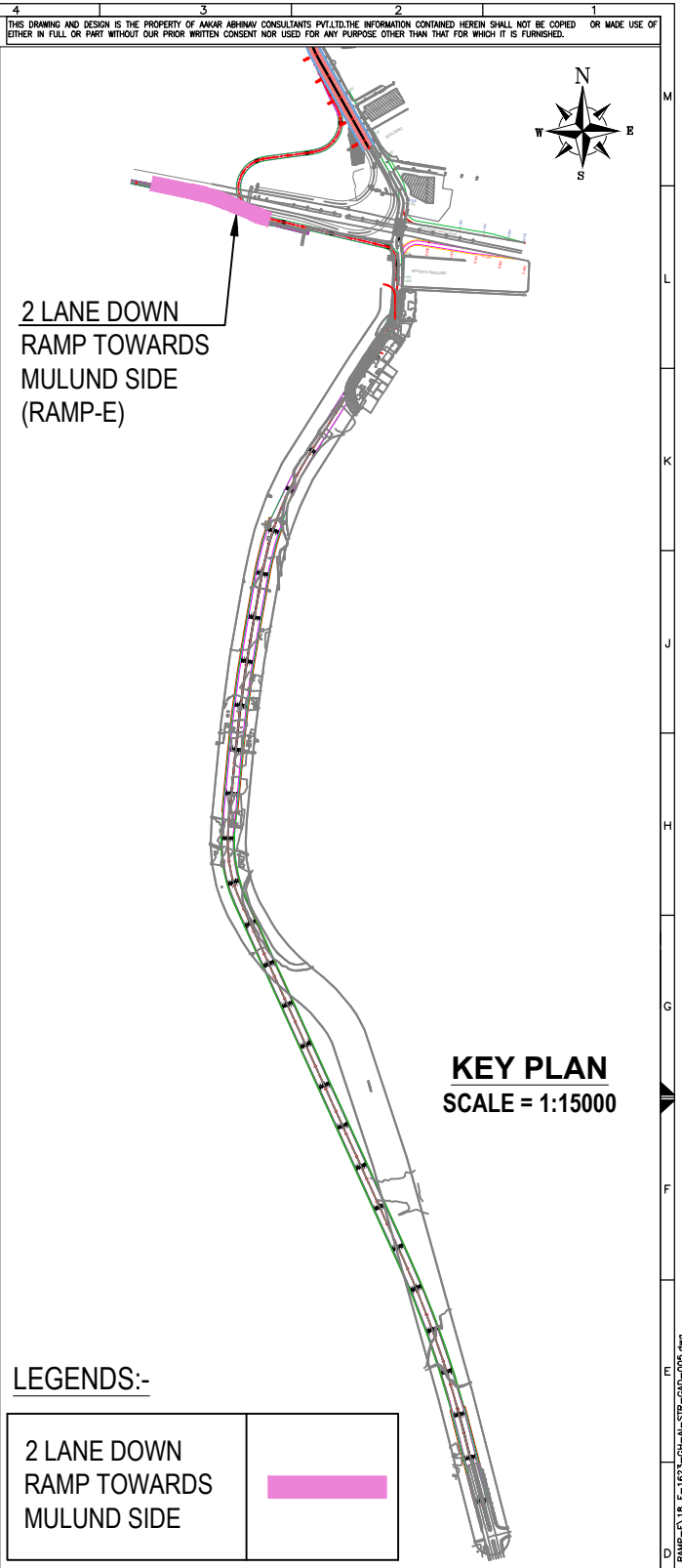


PLAN
SCALE = 1:1000



DESIGN L - SECTION
SCALE : 1:1000

PROP ROAD LEVELS	12.878	13.059	14.391	16.054	17.710	19.008
EX GR LEVELS	0.560	0.555	0.459	0.404	0.508	3.255
CUT/FILL	12.318	12.504	13.932	15.650	17.202	15.753
CHAINAGE	3261.000	3211.000	3161.000	3111.000	3061.000	3011.000



KEY PLAN
SCALE = 1:15000

LEGENDS:-

2 LANE DOWN RAMP TOWARDS MULUND SIDE	
--------------------------------------	--

NOTES:-

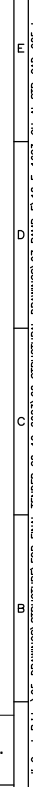
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE MENTIONED.
- DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- FOR RE WALL CROSS SECTIONS REFER HIGHWAY DRAWINGS.

REFERENCES:-

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH P&P AND CORRESPONDING GAD.



FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH
P&P AND CORRESPONDING GAD.

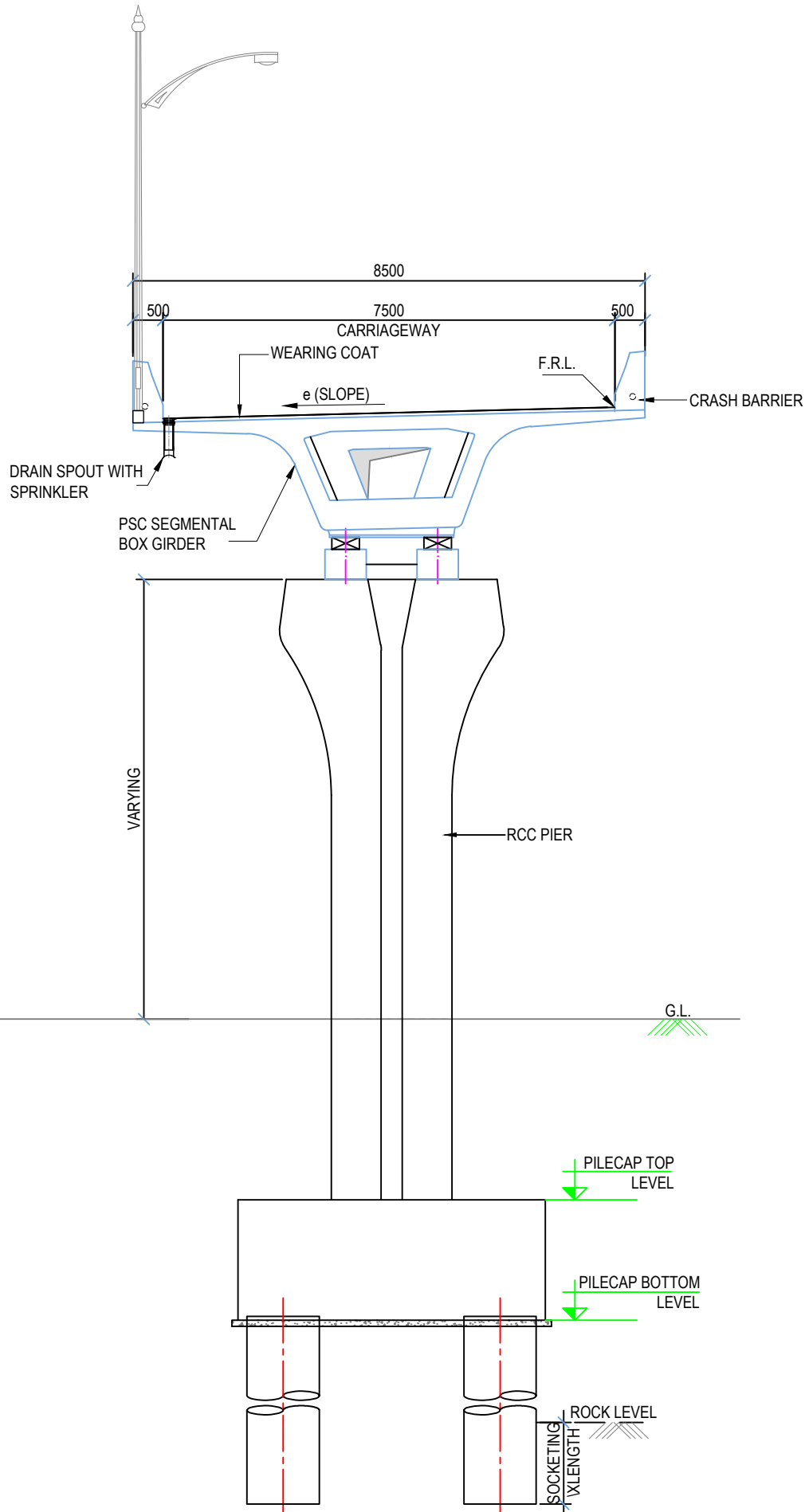


NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.

REFERENCES:-

FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH P&P AND CORRESPONDING GAD.



CROSS SECTION FOR P01-E TO P09-E
(SCALE 1:100)

CONSULTING ENGINEERS:
AAKAR ABHINAV
CONSULTANTS PRIVATE LIMITED
ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS
C-401-410, KURREJA CENTER, PLOT NO.13, SECTOR - 11, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.
[: +91 022 27580192, FAX: 91-022-27572533
E-MAIL: info@aaakarabhinav.com
Website: aaakarabhinav.com



CLIENT:



NAVI MUMBAI
MUNICIPAL CORPORATION

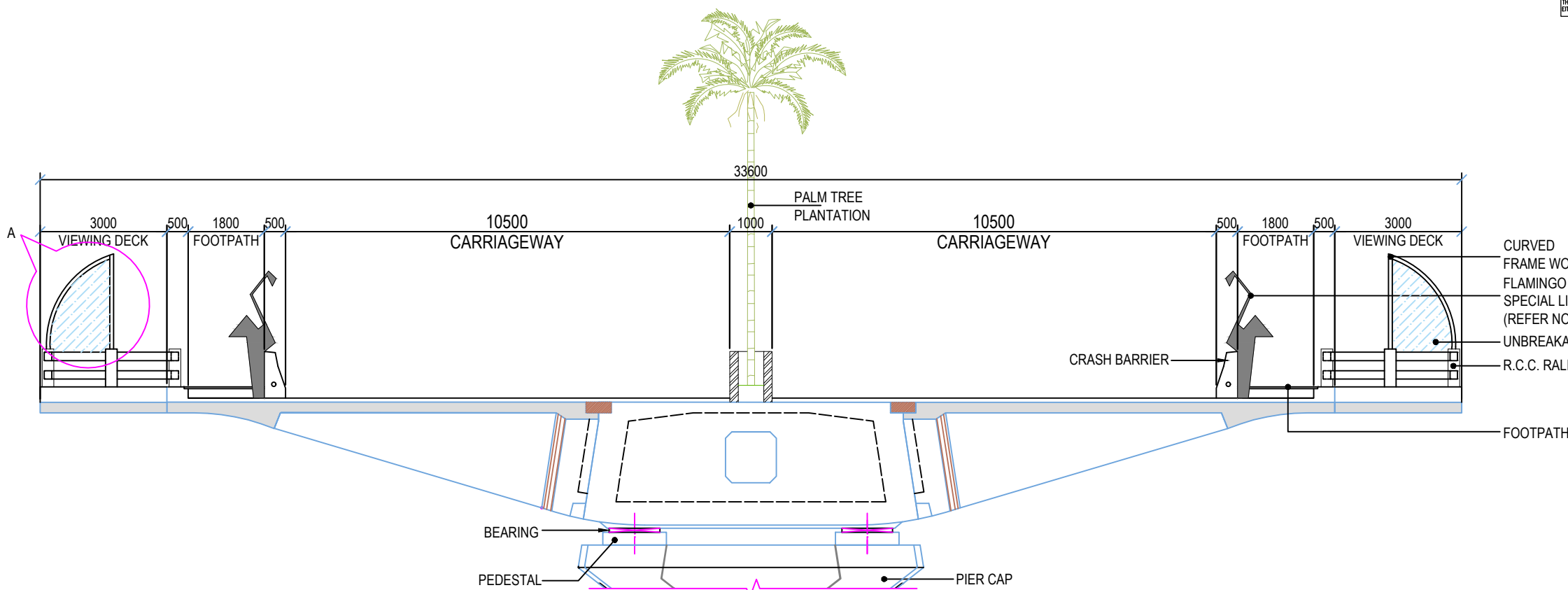
REV.	FOR TENDER	REVISION DETAILS	S.T	09.01.2023	D.M	09.01.2023	M.K	09.01.2023
DRN BY	DATE	CKD BY	DATE	APRD BY	DATE	DATE	DATE	DATE

DRAWING		DESIGN		APPROVED BY
DRAWING BY	CHECKED BY	DESIGN BY	CHECKED BY	
SISIRA T.	DIVYA M.	NEHAL B./ DIVYA M.	DIVYA M.	

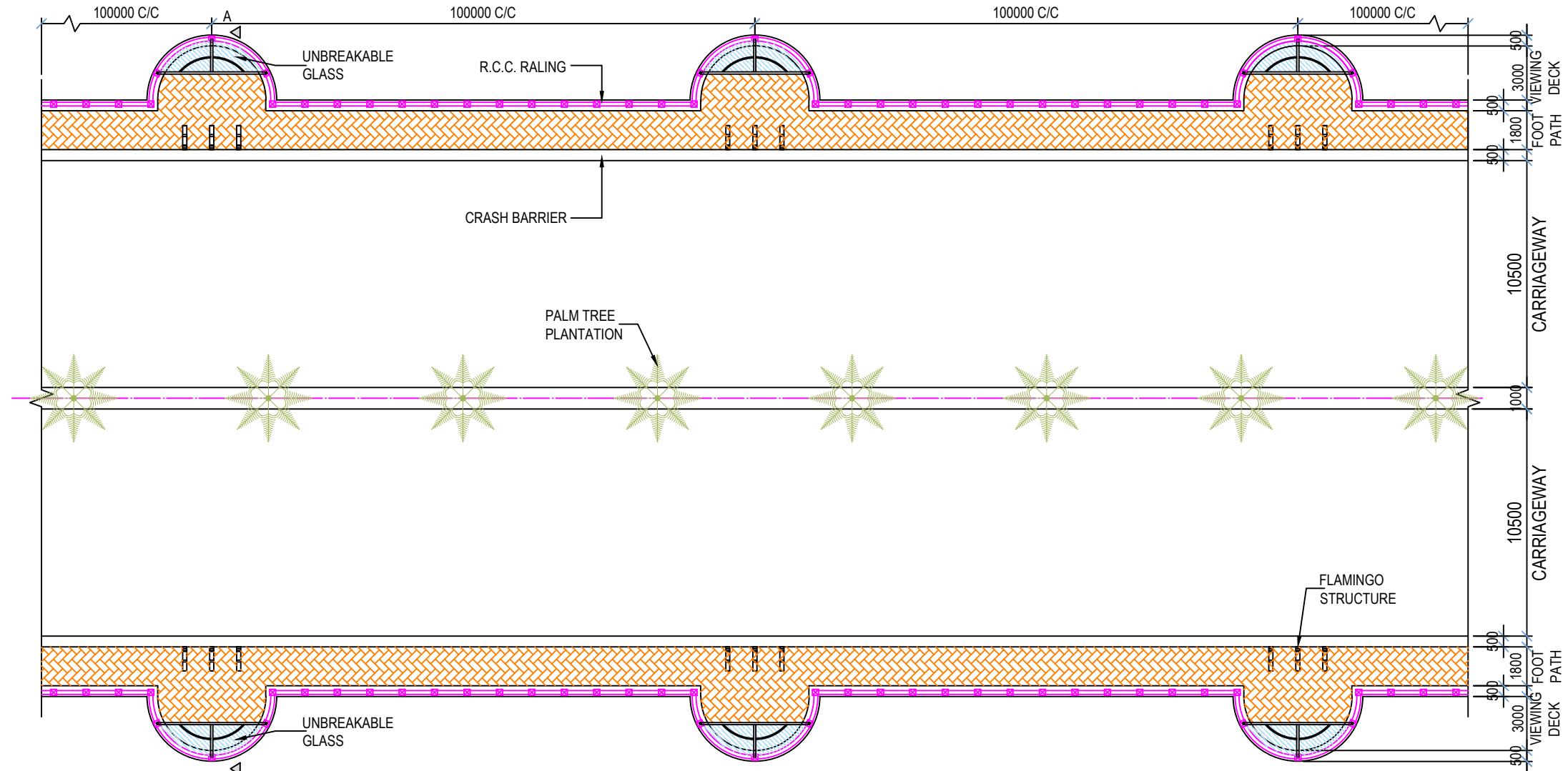
M. KHAN

PROJECT : CONSTRUCTION OF CREEK BRIDGE CONNECTING GHANSOLI - AIROLI ALONG PALM BEACH ROAD AT GHANSOLI, NAVI MUMBAI ON EPC MODE.			
TITLE :CROSS SECTION FOR P01-E TO P09-E			
DRG NO: 1623-GH-AI-STR-TCS-024	PROJECT NO. 1623	REV. R0	SCALE: AS SHOWN

MISCELLANEOUS DRAWINGS



SECTION A-A OF VIEWING DECK AT 100M OF INTERVAL



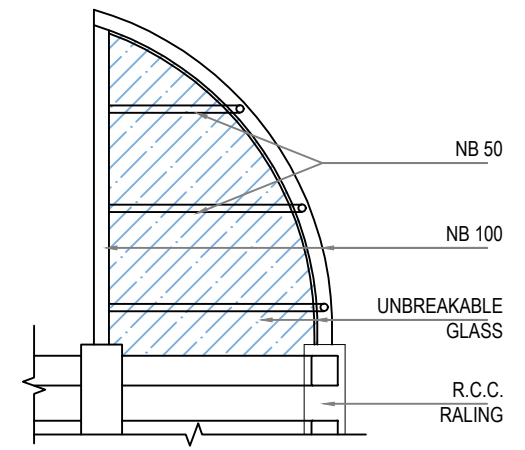
PLAN OF VIEWING DECK AT 100M OF INTERVAL

NOTES:-

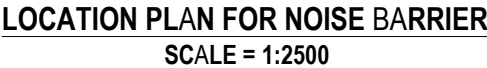
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ANY DISCREPANCY IN DRAWING SHALL BE BROUGHT TO NOTICE BEFORE EXECUTION.
3. DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
4. THE NUMBER OF SPECIAL LIGHT POLE AND ITS SPACING SHALL DEPEND ON THE VENDOR DEALING AND AS INSPECTED BY THE SITE IN-CHARGE
5. GRADE OF STRUCTURAL STEEL SHALL BE Fe310 FOR HANDRAIL AND POST FOR GLASS FRAME SUPPORTS

REFERENCES:

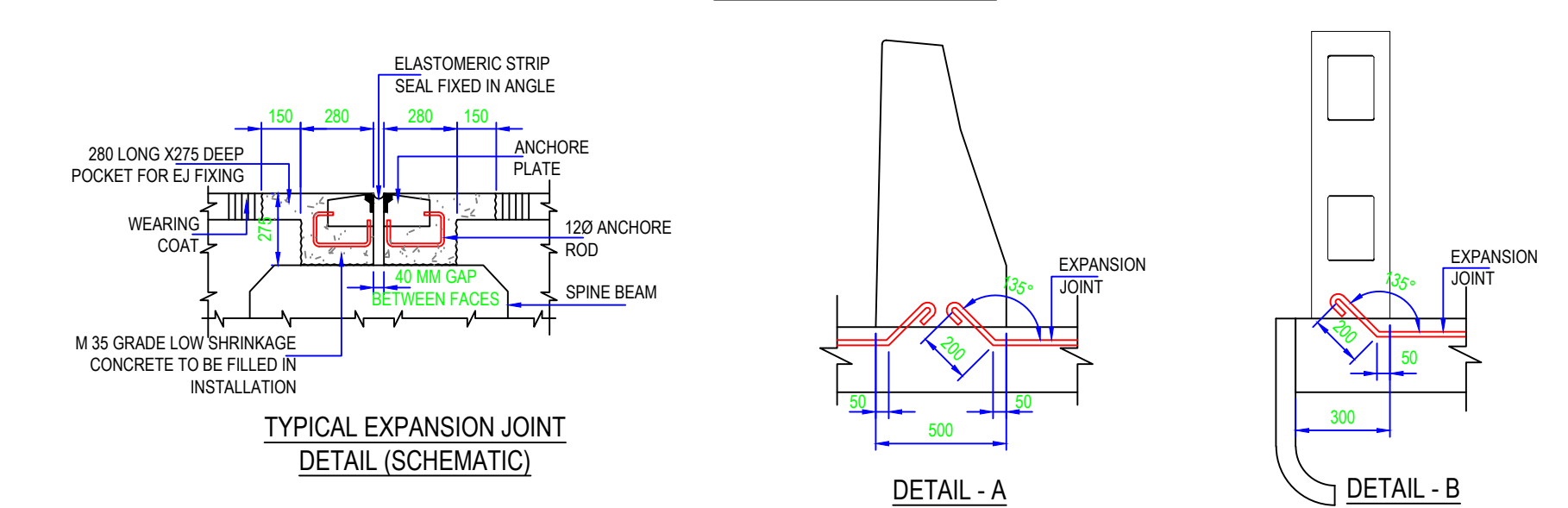
FOR NOTES DRG NO:- 1623-GH-AI-DES-NOTES
*THIS DRAWING SHALL BE READ AND CONJUNCTION WITH P&P AND CORRESPONDING GAD.



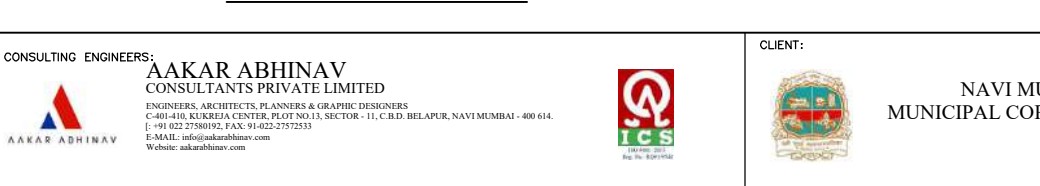
DETAILS A



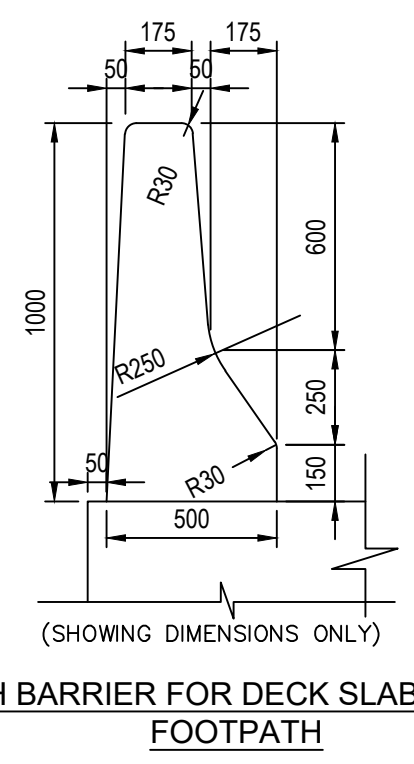
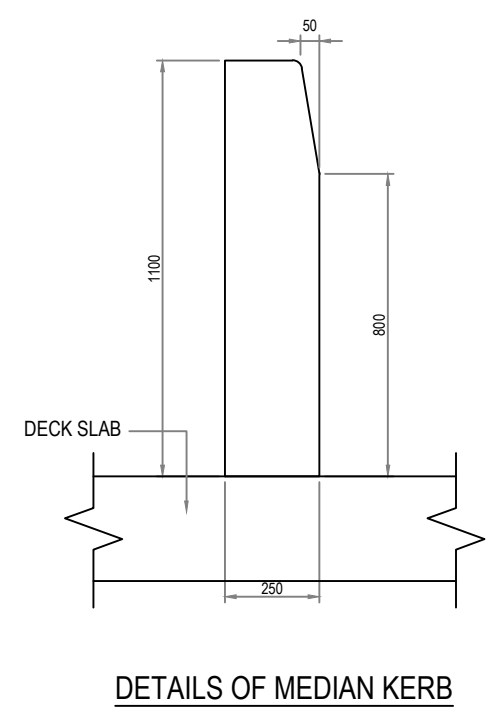
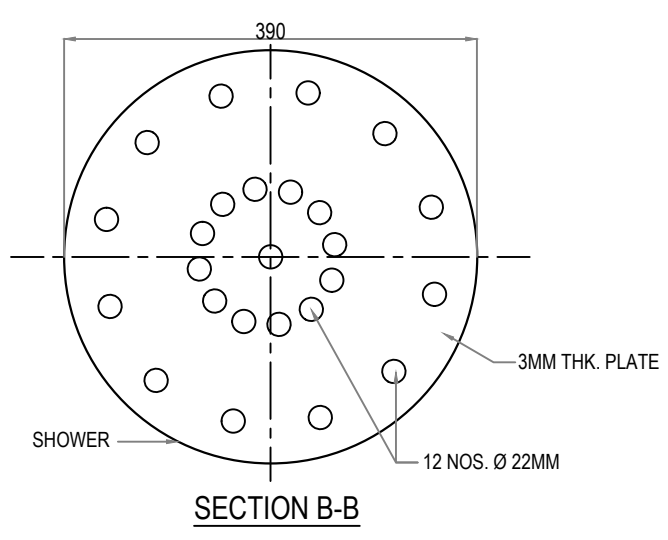
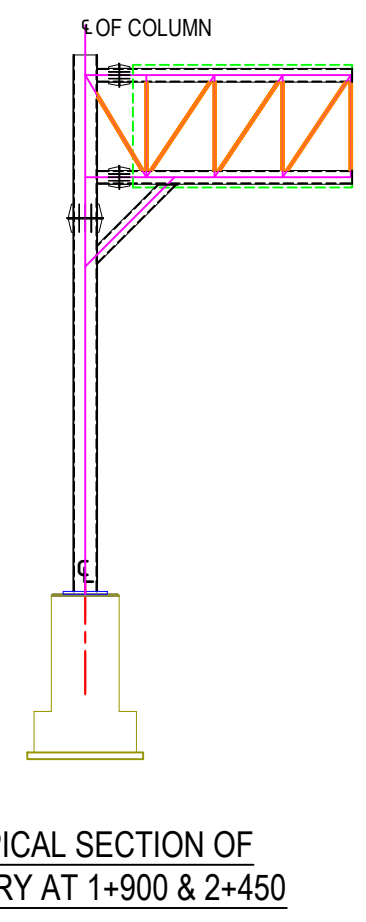
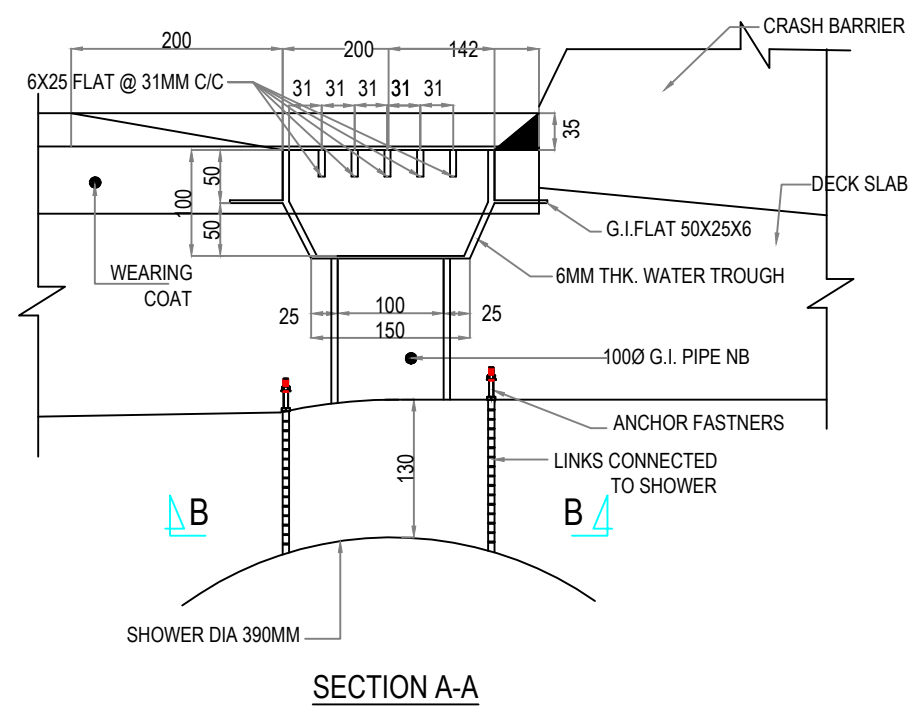
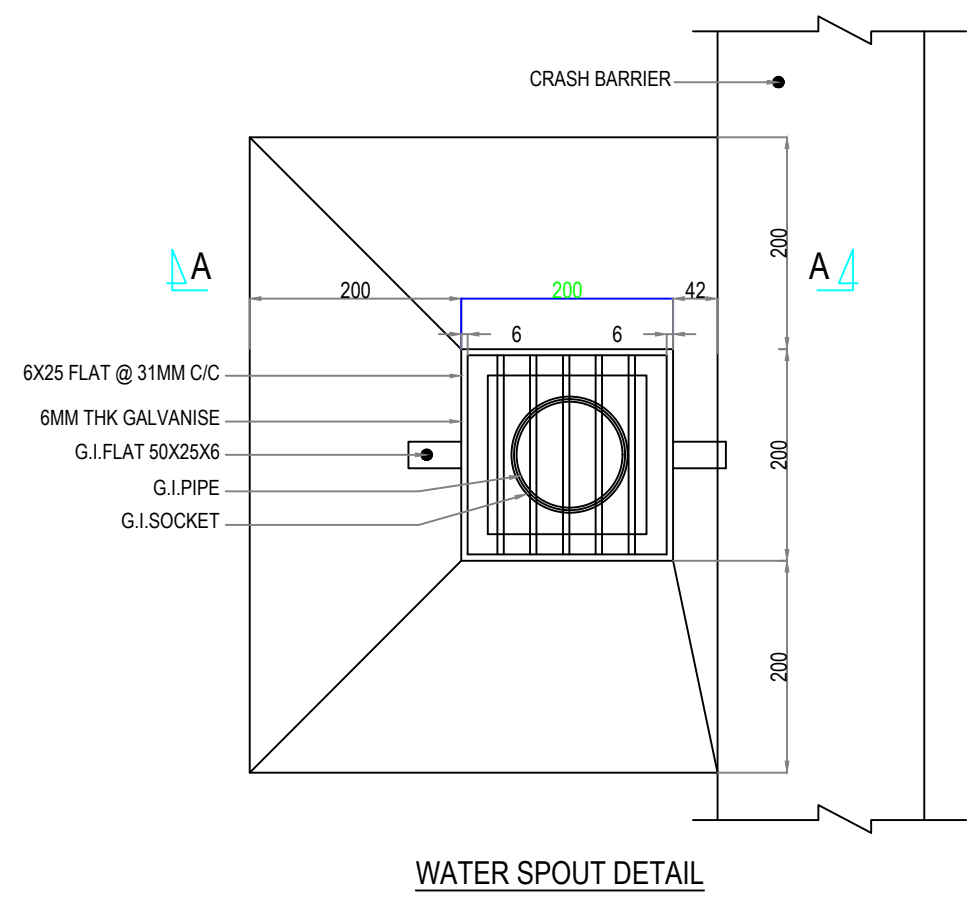
1. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE MENTIONED.
2. ANY DISCREPANCY IN DRAWING SHALL BE BROUGHT TO NOTICE BEFORE EXECUTION.
3. DO NOT SCALE THE DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

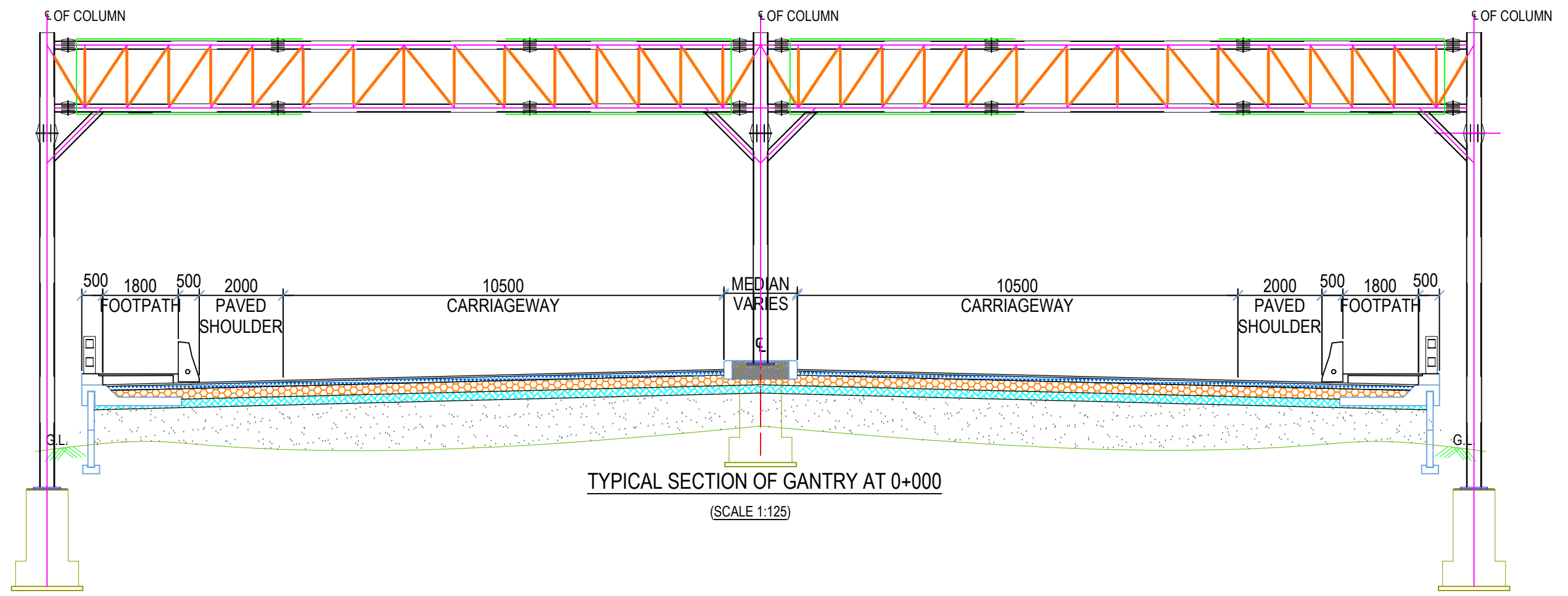


* 80 WIDE X 4 MM THK. STEEL STRIP FIXED IN TO THE RECESS, AT EJ LOCATION TO COVER THE GAP IN CRASH BARRIER & KERB

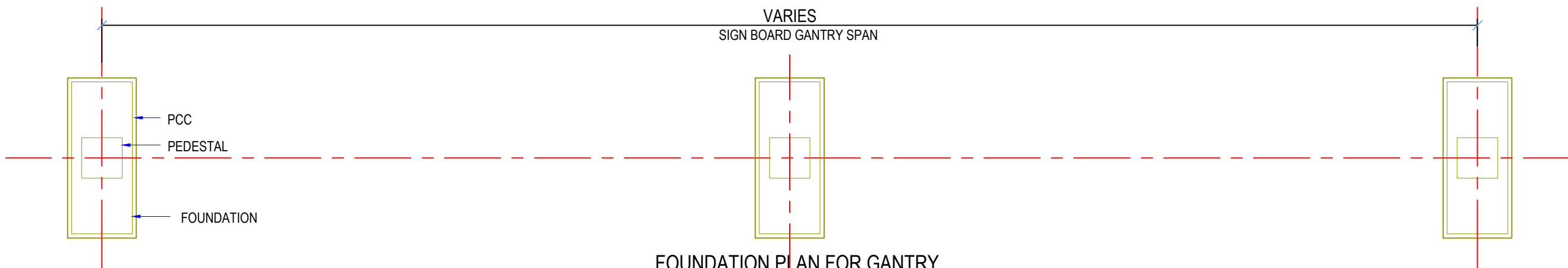


CONSULTING ENGINEERS: AAKAR ABHINAV CONSULTANTS PRIVATE LIMITED ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS C-401-410, KUKREJA CENTER, PLOT NO-13, SECTOR - 11, C.B.D. BELAPUR, NAVI MUMBAI - 400 604. T: 99 262 27580/92, FAX: 91-022-27572533 E-MAIL: info@aaakarabhinav.com Website: aaakarabhinav.com		CLIENT:  NAVI MUMBAI MUNICIPAL CORPORATION
---	---	--

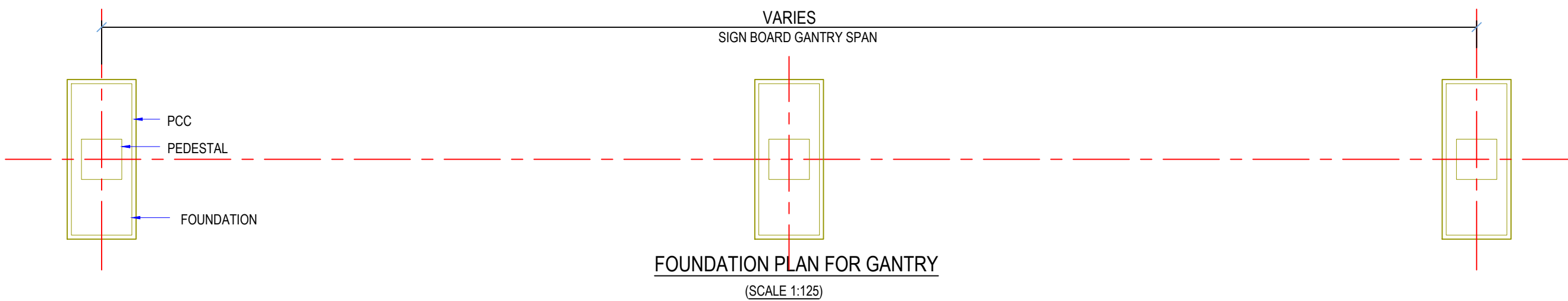
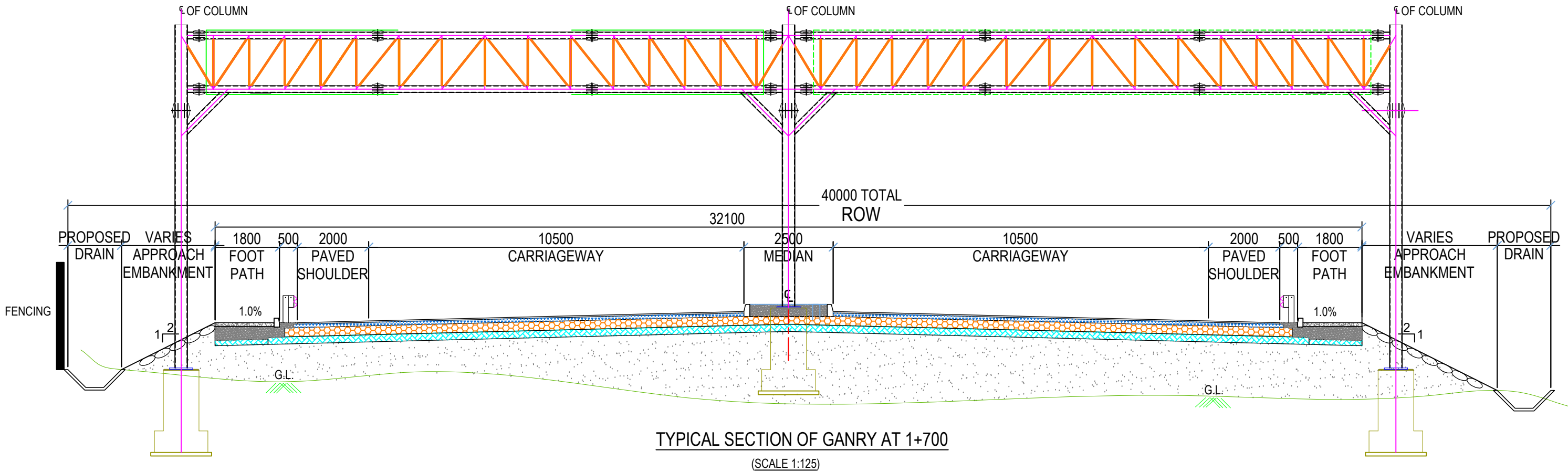


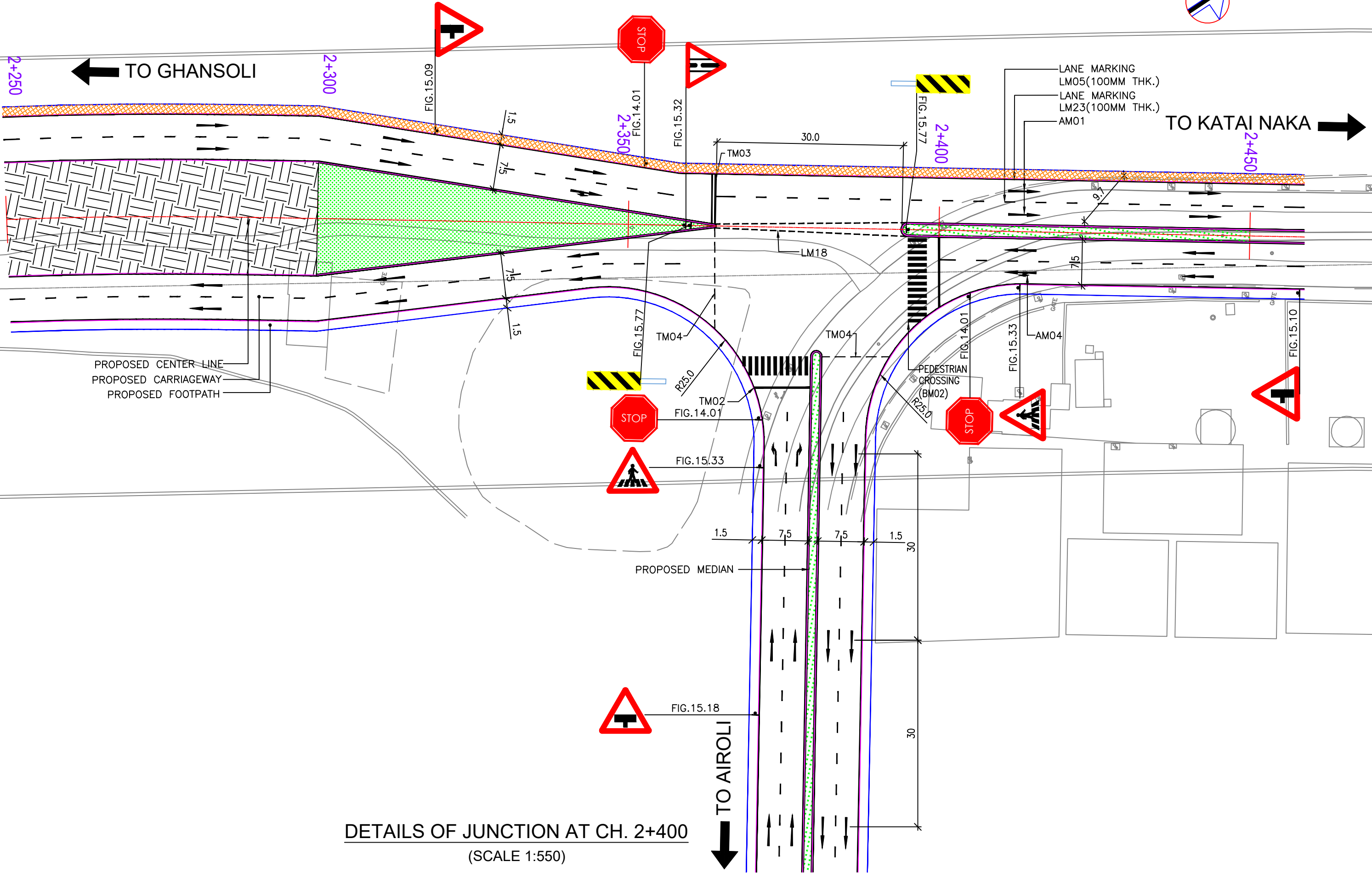


TYPICAL SECTION OF GANTRY AT 0+000
(SCALE 1:125)



FOUNDATION PLAN FOR GANTRY
(SCALE 1:125)





DETAILS OF JUNCTION AT CH. 2+400
(SCALE 1:550)

CONSULTING ENGINEERS:

AAKAR ABHINAV
CONSULTA 1:2500 PRIVATE LIMITED
ENGINEERS, ARCHITECTS, PLANNERS & GRAPHIC DESIGNERS
C-401-410, KUKREJA CENTER, PLOT NO.13, SECTOR - 11, C.B.D. BELAPUR, NAVI MUMBAI - 400 614.
E-MAIL: info@aaakarabhinav.com
Website: aaakarabhinav.com

CLIENT:

NAVI MUMBAI MUNICIPAL CORPORATION

REV.	REVISION DETAILS	DRN BY	DATE	CHECKED BY	DATE	APRD BY	DATE
R1	FOR TENDER	J.B.	28.04.2021	A.S.	28.04.2021	V.S.	28.04.2021
R0	FOR FEASIBILITY	T.M.	31.03.2021	A.S.	31.03.2021	V.S.	31.03.2021

DRAWING

DRAWING BY	CHECKED BY	DESIGN BY	CHECKED BY
JYOTSNA B.	ANIKET S.	ANIKET S.	AMAR M.

DATE: 28.04.2021

DESIGN

DESIGN BY	CHECKED BY
ANIKET S.	AMAR M.

DATE: 28.04.2021

APPROVED BY

VINAY S.

PROJECT **CONSTRUCTION OF CREEK BRIDGE CONNECTING GHANSOLI - AIROLI ALONG PALM BEACH ROAD AT GHANSOLI, NAVI MUMBAI ON EPC MODE.**

TITLE : **T-JUNCTION DEVELOPMENT AT 2+400**

DRG NO: 1623-GH-AI-DES-JD-001	PROJECT NO. 1623	REV. R1	SCALE 1:550	A3
-------------------------------	------------------	---------	-------------	----