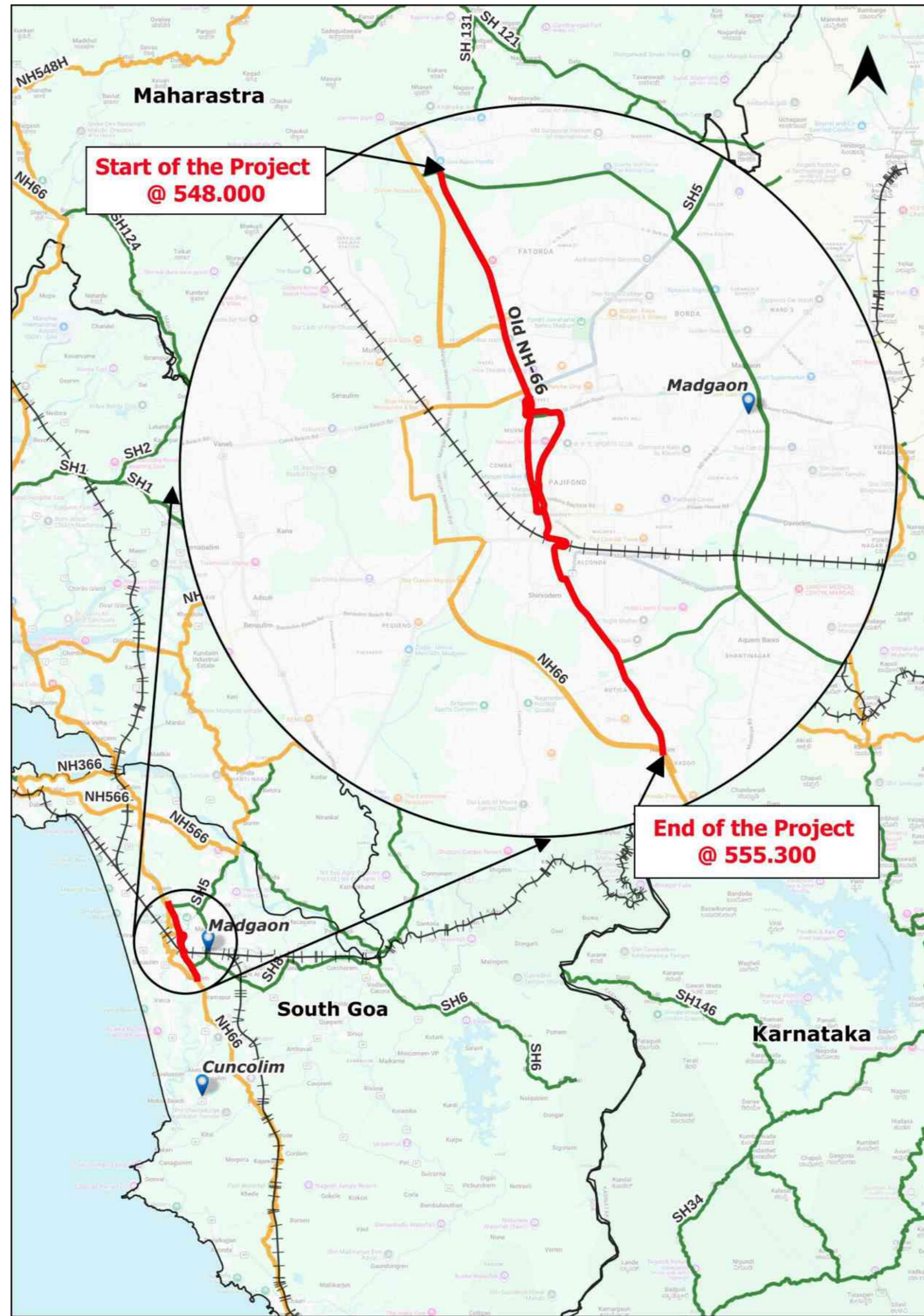


HIGHWAY DRAWINGS

INDEX MAP



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
				APR - 2026
G. KRISHNA	P. SATISH	P. SRINIVAS RAO	S. S. REDDY	

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PROJECT :

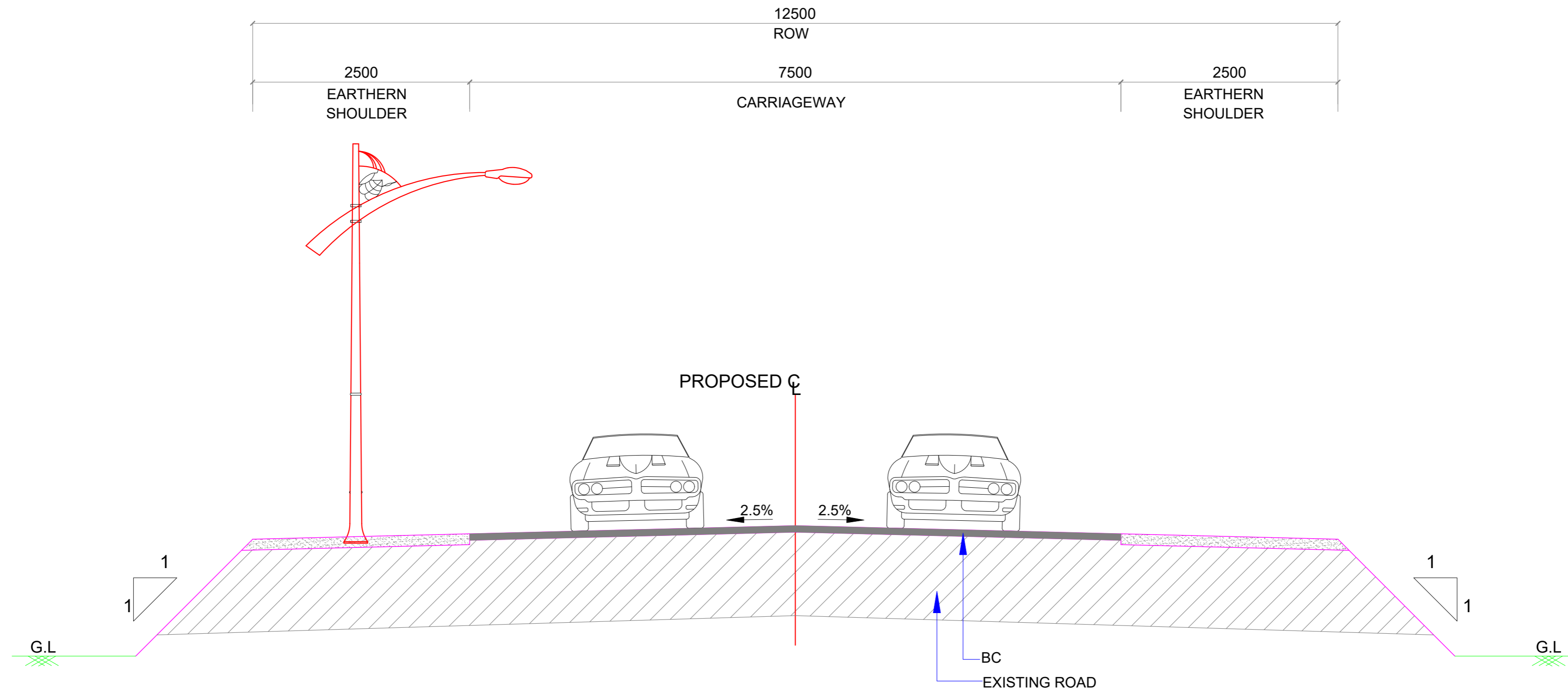
ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

INDEX MAP

DRG. NO. AA / 2667 / GOA / INDEX MAP

TYPICAL CROSS SECTIONS



TCS I : 2 LANE ROAD WITH EARTHEN SHOULDER ON BOTH SIDES

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

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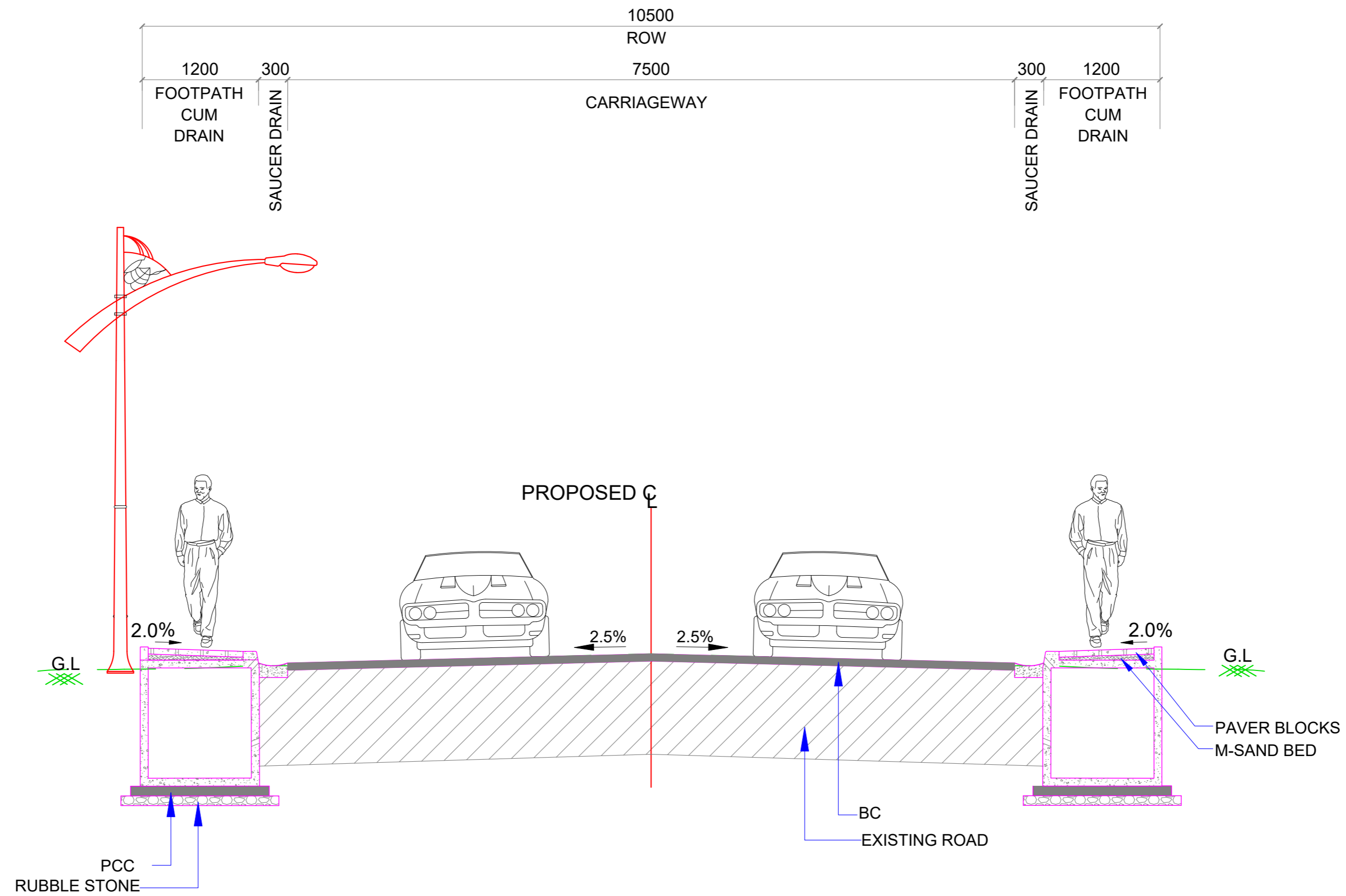
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300
ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 01



TCS II : 2 LANE ROAD WITH FOOTPATH CUM DRAIN ON BOTH SIDES

NOTE :
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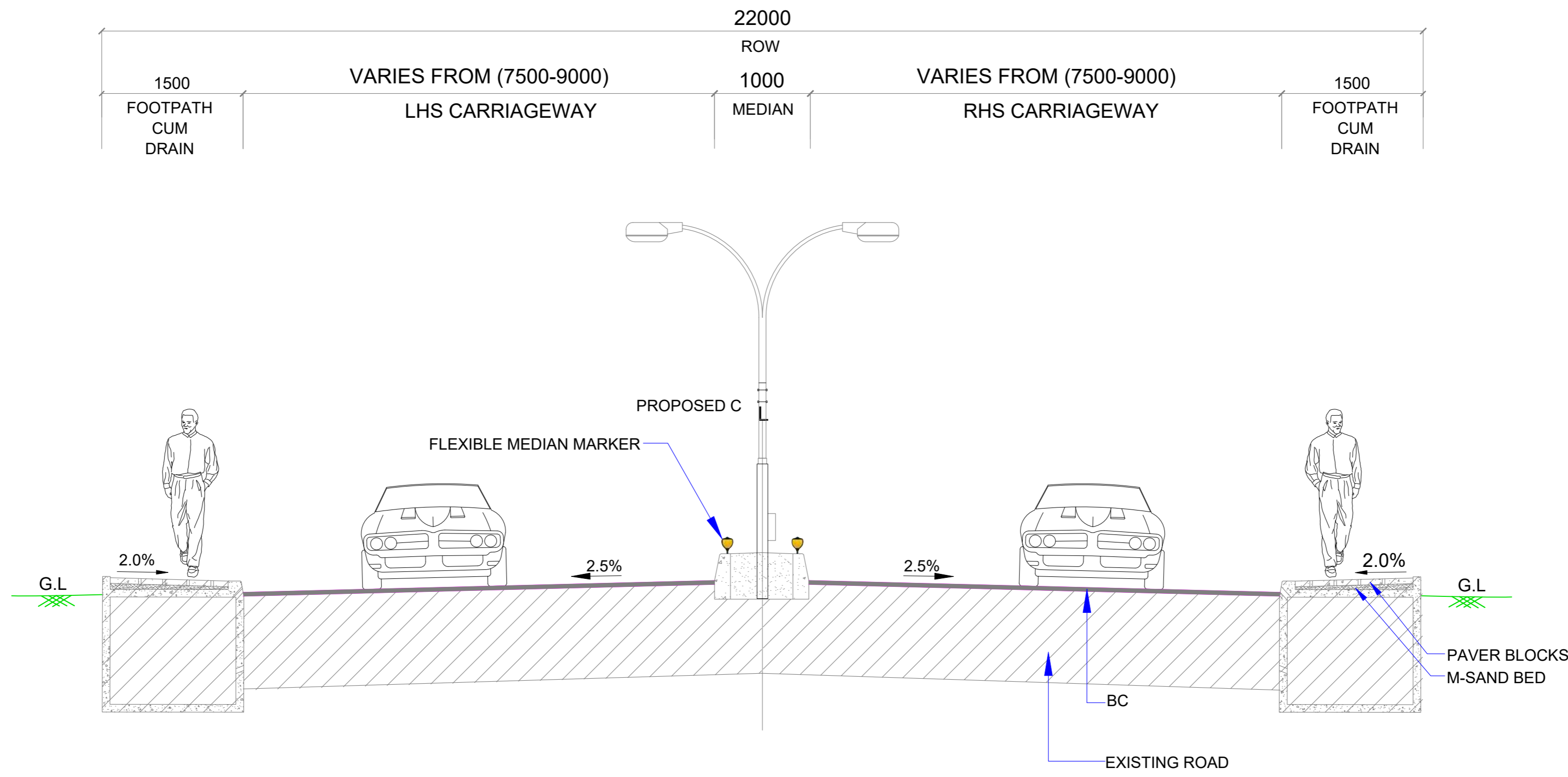
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 02



TCS III : EXISTING 4 LANE ROAD WITH FOOTPATH CUM DRAIN ON BOTH SIDES

NOTE :
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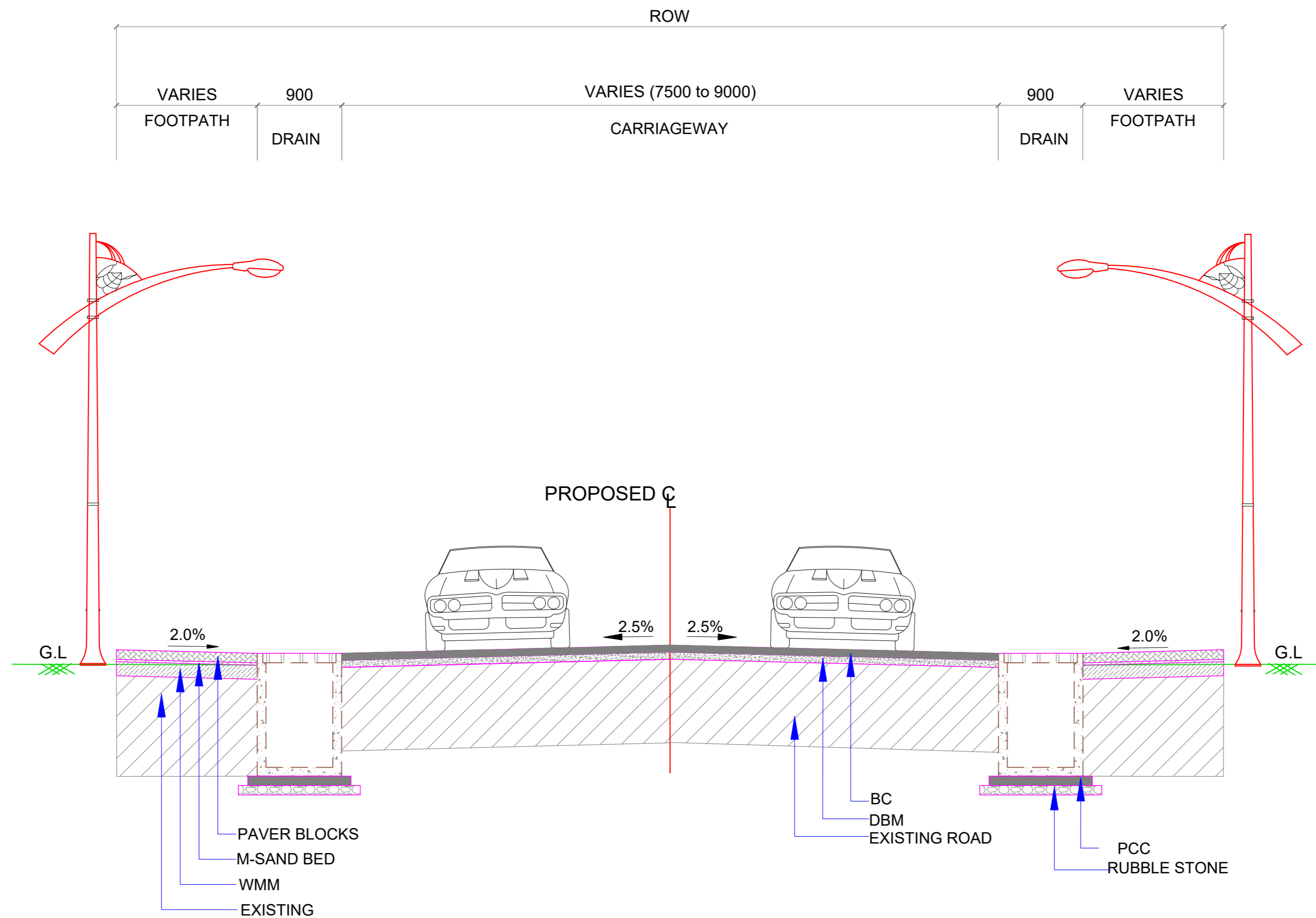
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300
ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

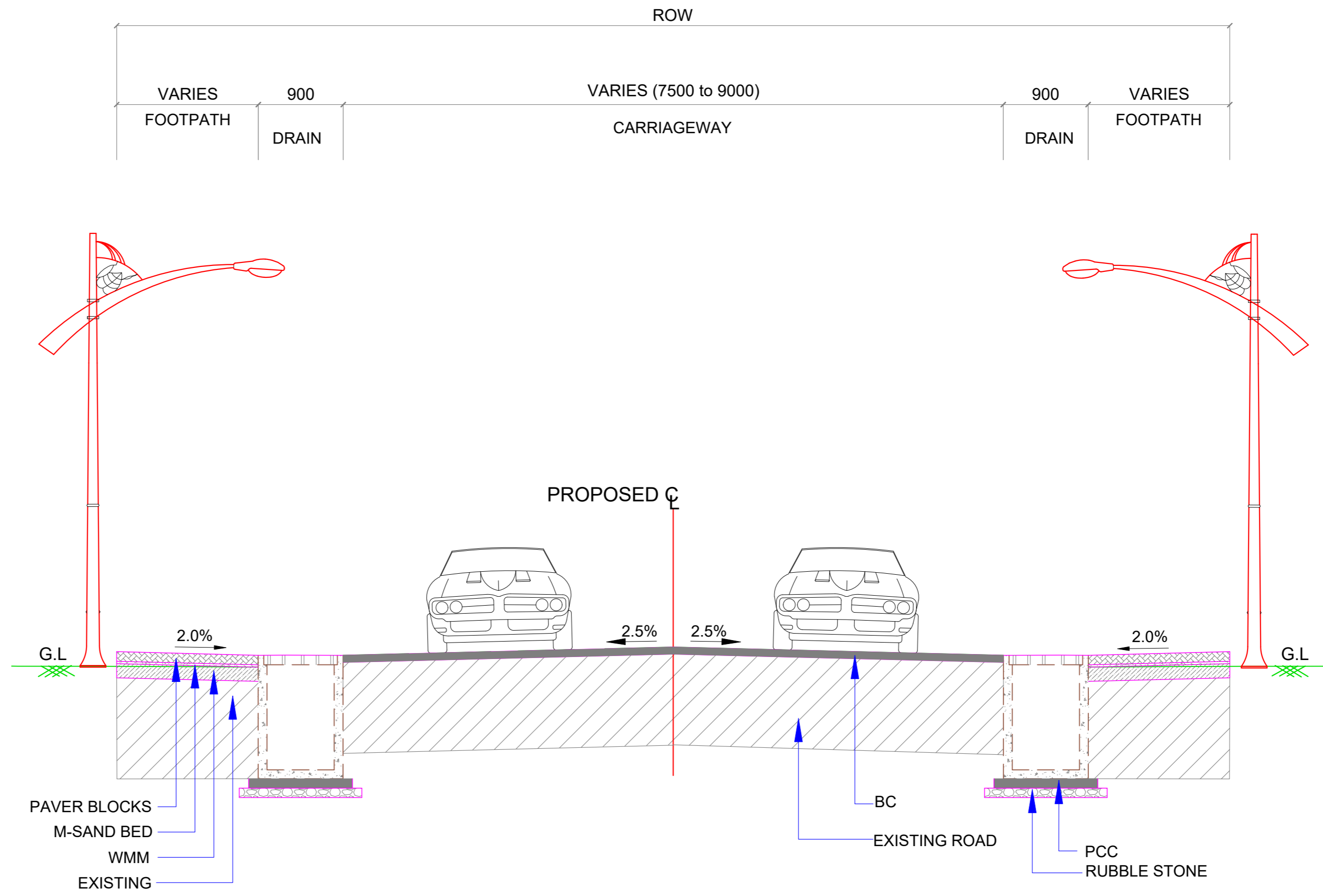
DRG. NO. AA / 2667 / GOA / TCS / 03



TCS IV(A) : TWO LANE / TWO LANE WITH PAVED SHOULDER WITH DRAIN & FOOTPATH ON BOTH SIDES

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

DESIGNED BY G.KRISHNA	DRAWN BY P.SATISH	CHECKED BY P.SRINIVAS RAO	APPROVED BY S.S.REDDY	DATE FEB - 2026	CLIENT : GOVERNMENT OF GOA	CONSULTANT : aarvee engineering consultants limited Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91-40-23737633; Fax: +91-40-23736277 e-mail: aarvee@aarvee.net; web: www.aarvee.com	PROJECT : ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA
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TCS IV(B) : TWO LANE / TWO LANE WITH PAVED SHOULDER WITH DRAIN & FOOTPATH ON BOTH SIDES

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

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REVISION NO.	DATE	DESCRIPTION	REVISED BY	
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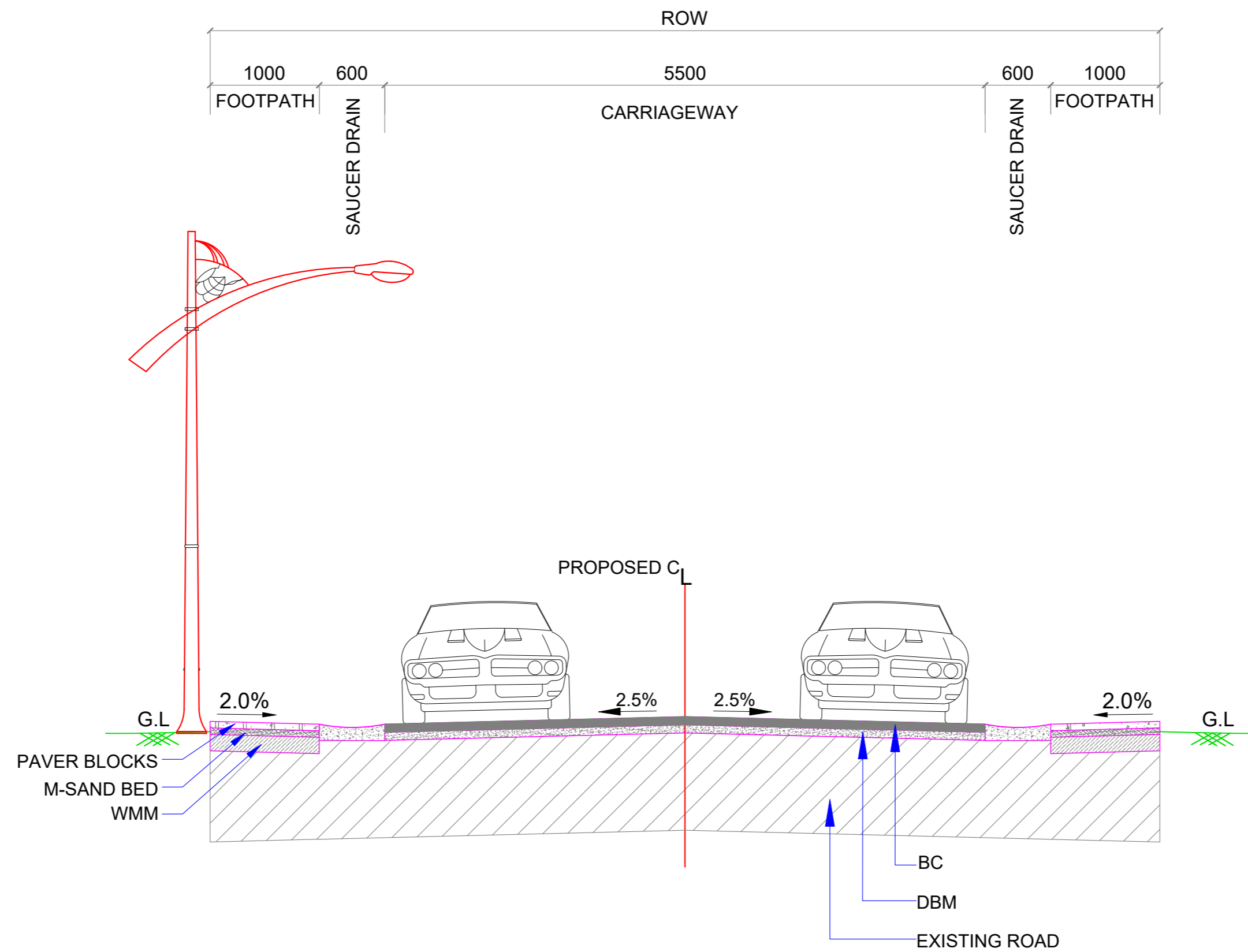
PROJECT :

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TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 05



TCS V : INTERMEDIATE LANE WITH PAVER BLOCK ON BOTH SIDES

NOTE :
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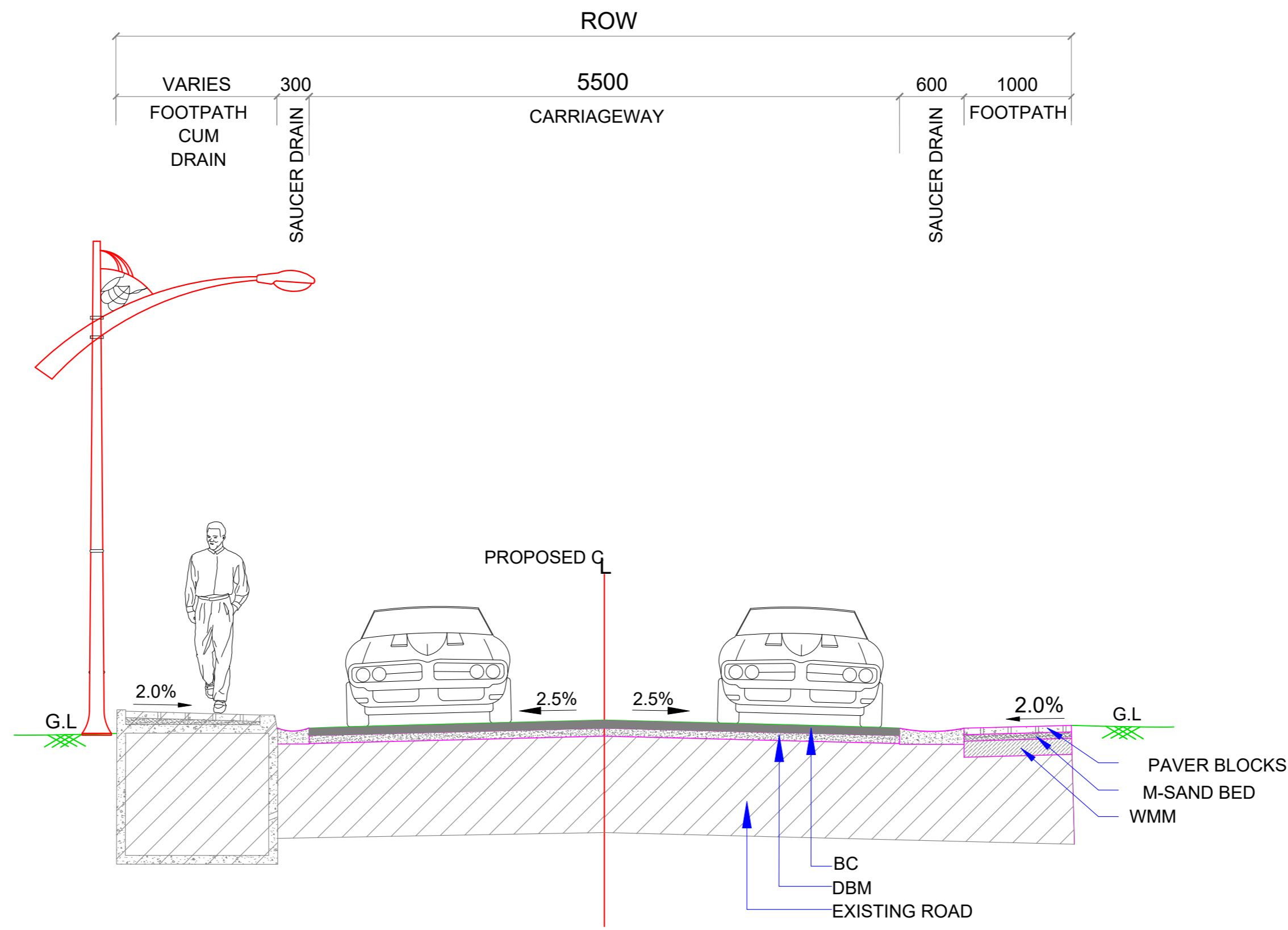
PROJECT :

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TITLE :

TYPICAL CROSS SECTIONS

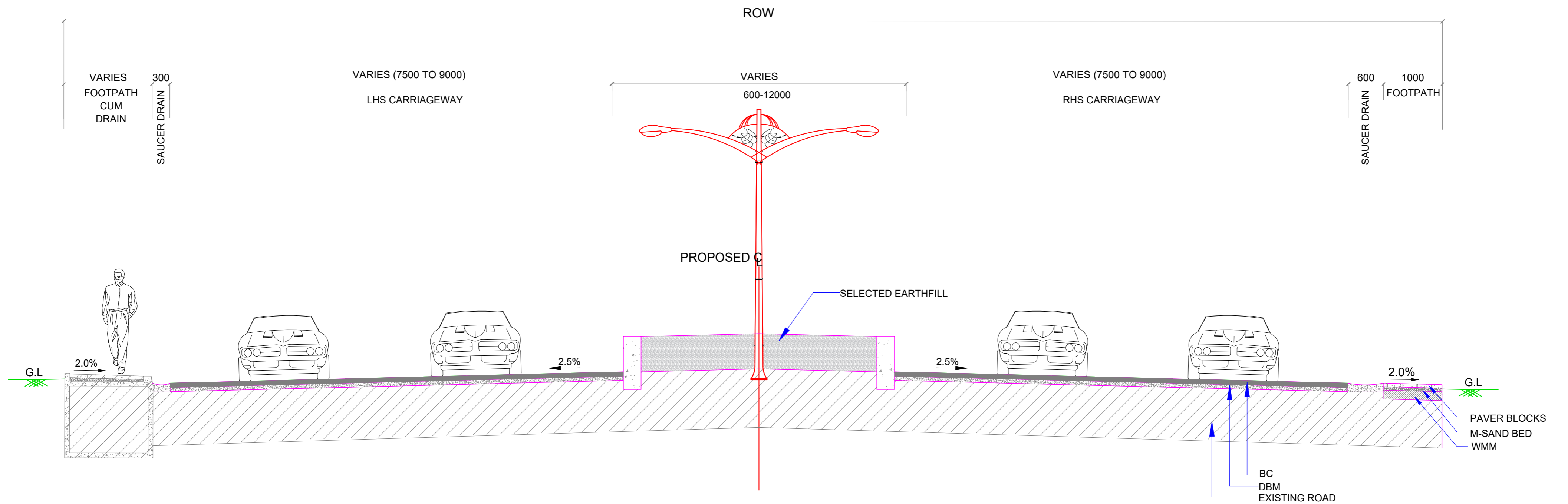
DRG. NO. AA / 2667 / GOA / TCS / 06



TCS VI : INTERMEDIATE LANE WITH FOOTPATH CUM DRAIN ON LHS AND PAVER BLOCKS ON RHS

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

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REVISION NO.	DATE	DESCRIPTION	REVISED BY	SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING				
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R0	JAN - 2026	INITIAL SUBMISSION						
DRG. NO. AA / 2667 / GOA / TCS / 07								R0



TCS VII : 4 LANE HIGHWAY WITH EXISTING FOOTPATH CUM DRAIN ON LHS AND PAVER BLOCKS ON RHS

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

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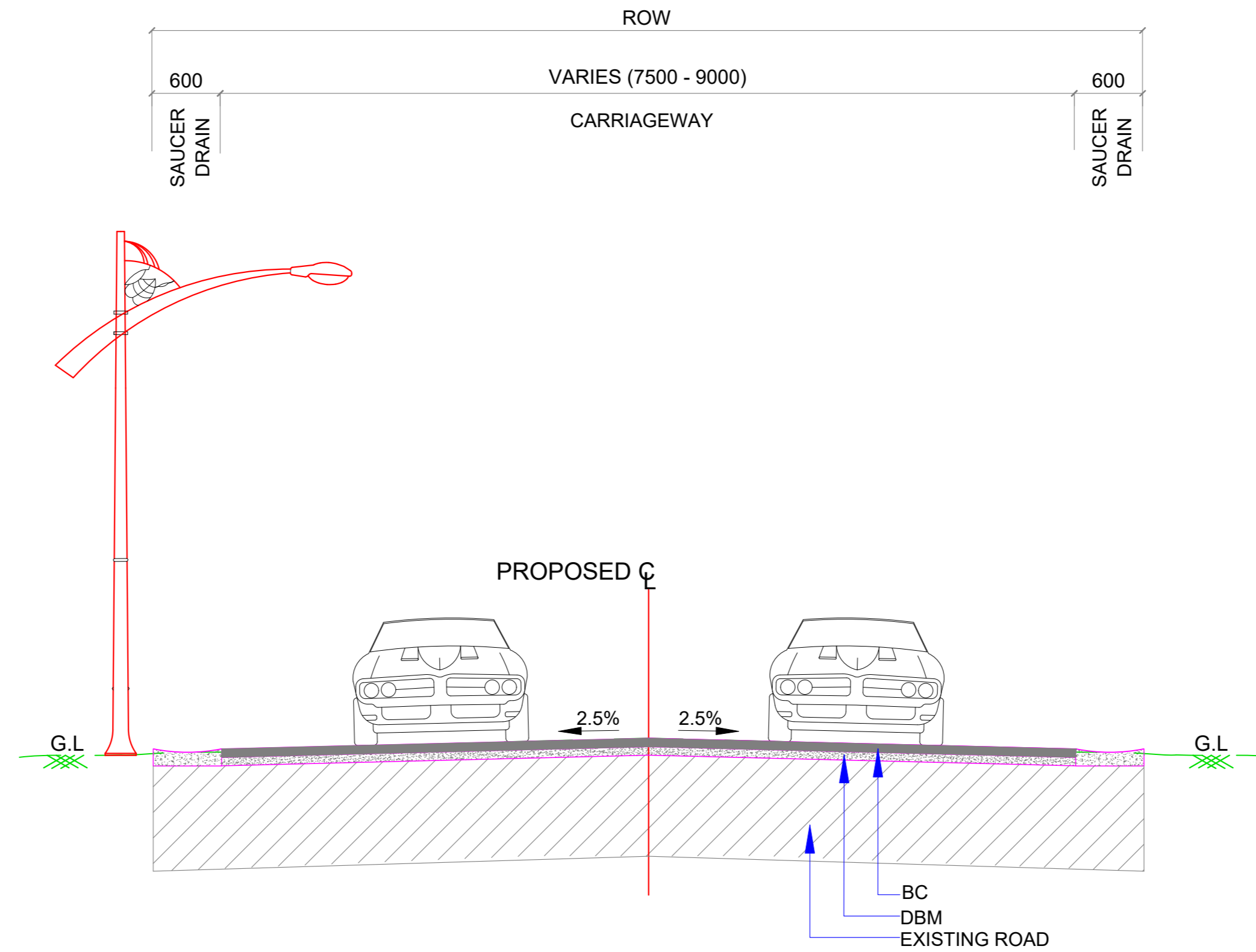
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 08



TCS VIII :2 LANE / 2 LANE WITH PAVED SHOULDER WITH SAUCER DRAIN ON BOTH SIDES

NOTE :
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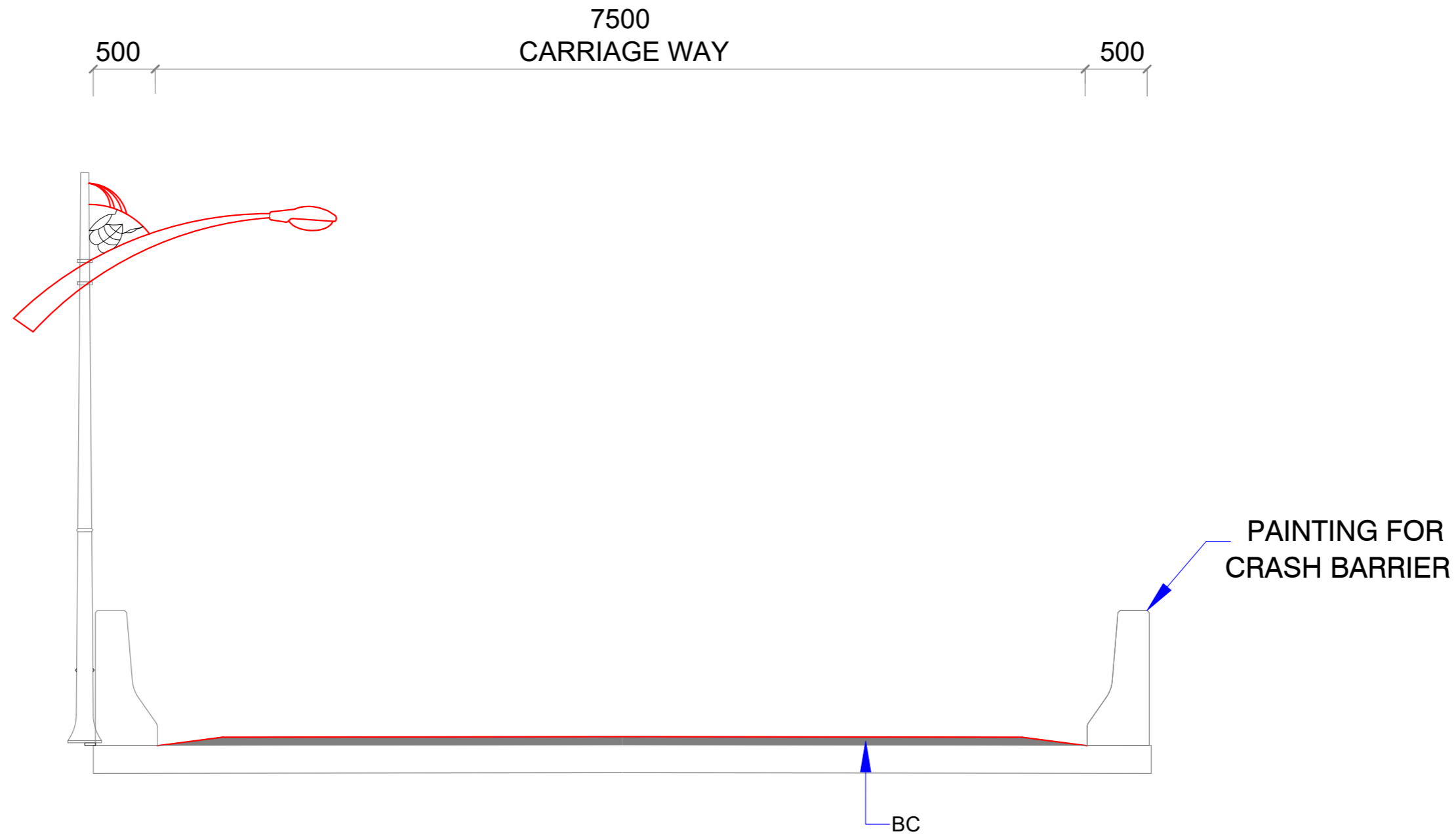
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300
ON NH-66 IN THE STATE OF GOA

TITLE :





TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 08



TCS-IX : TYPICAL CROSS SECTION FOR EXISTING 2 LANE ROB

NOTE :
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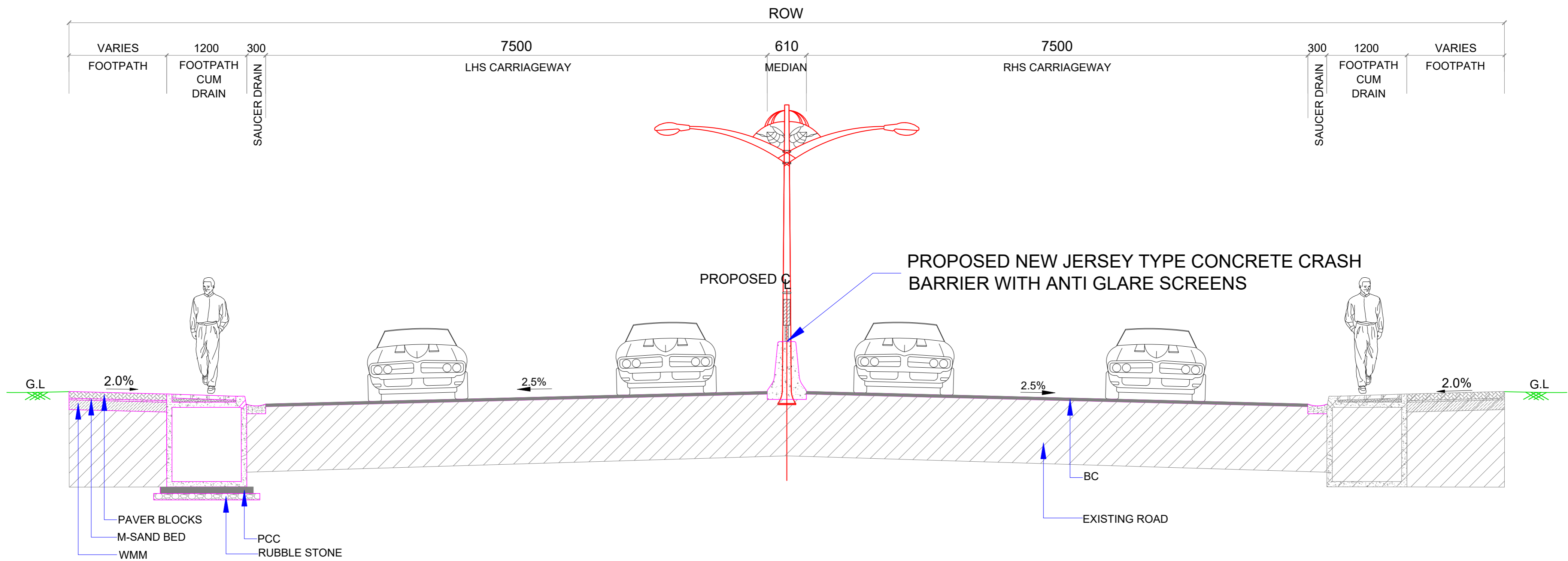
PROJECT :

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ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 09



TCS X : 4 LANE DIVIDED CARRIAGEWAY WITH NEW FOOTPATH CUM DRAIN ON LHS & EXISTING DRAIN CUM FOOTPATH ON RHS

NOTE :
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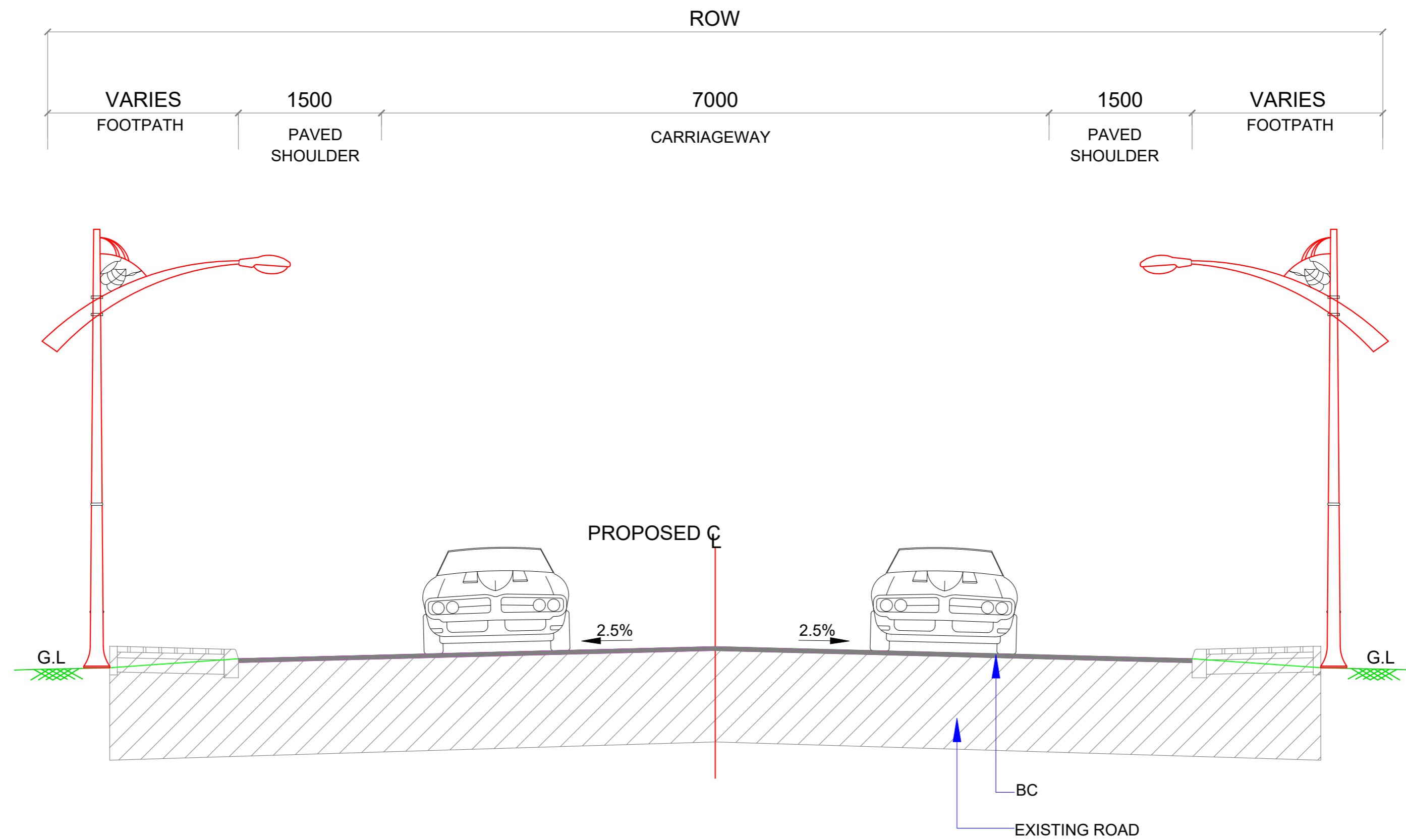
PROJECT :

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TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 10



TCS XI : 2 LANE ROAD WITH PAVED SHOULDER AND EXISTING FOOTPATH ON ON BOTH SIDES

NOTE :
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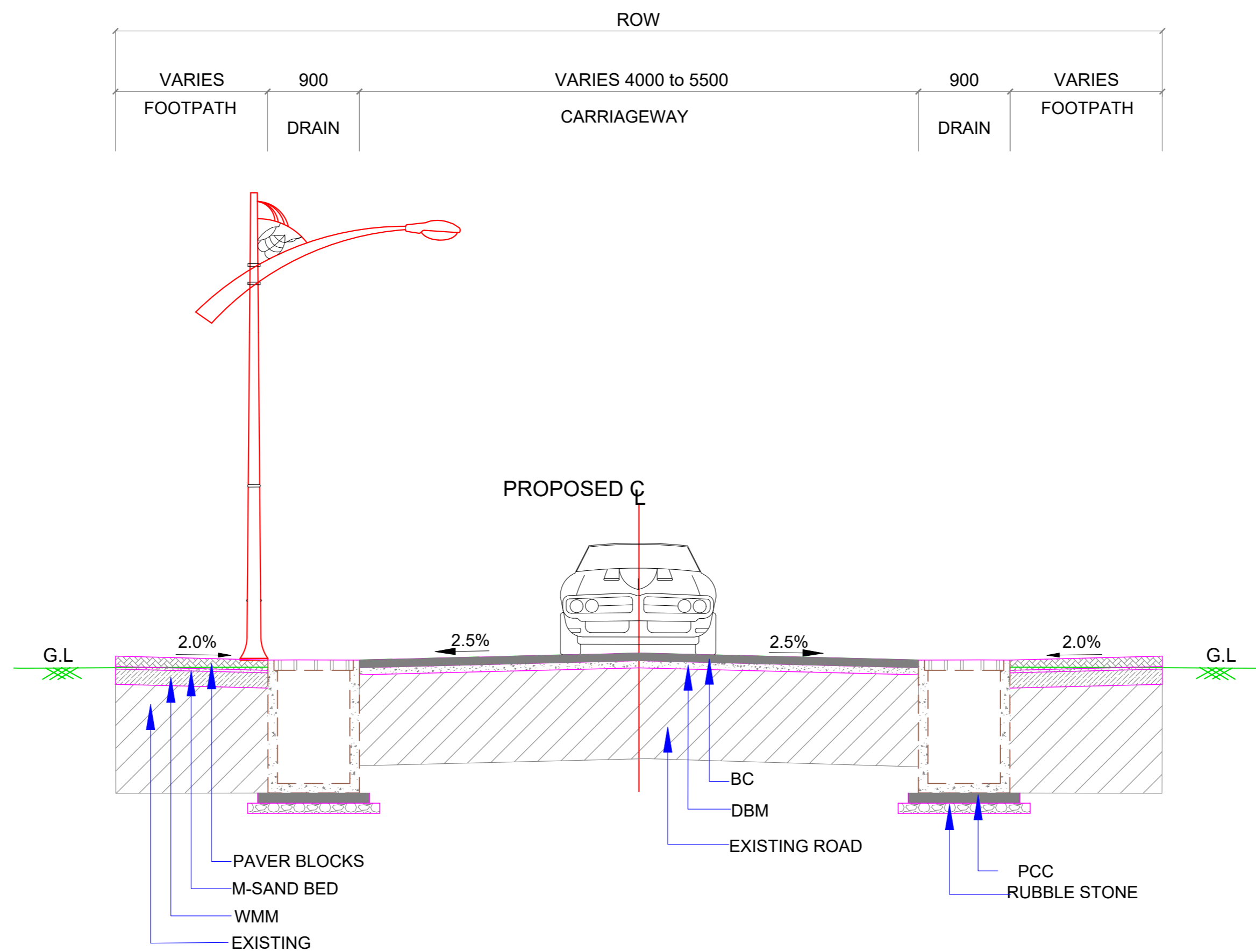
PROJECT :

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TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 11



TCS XII : INTERMEDIATE LANE WITH FOOTPATH & DRAIN ON BOTH SIDES

NOTE :
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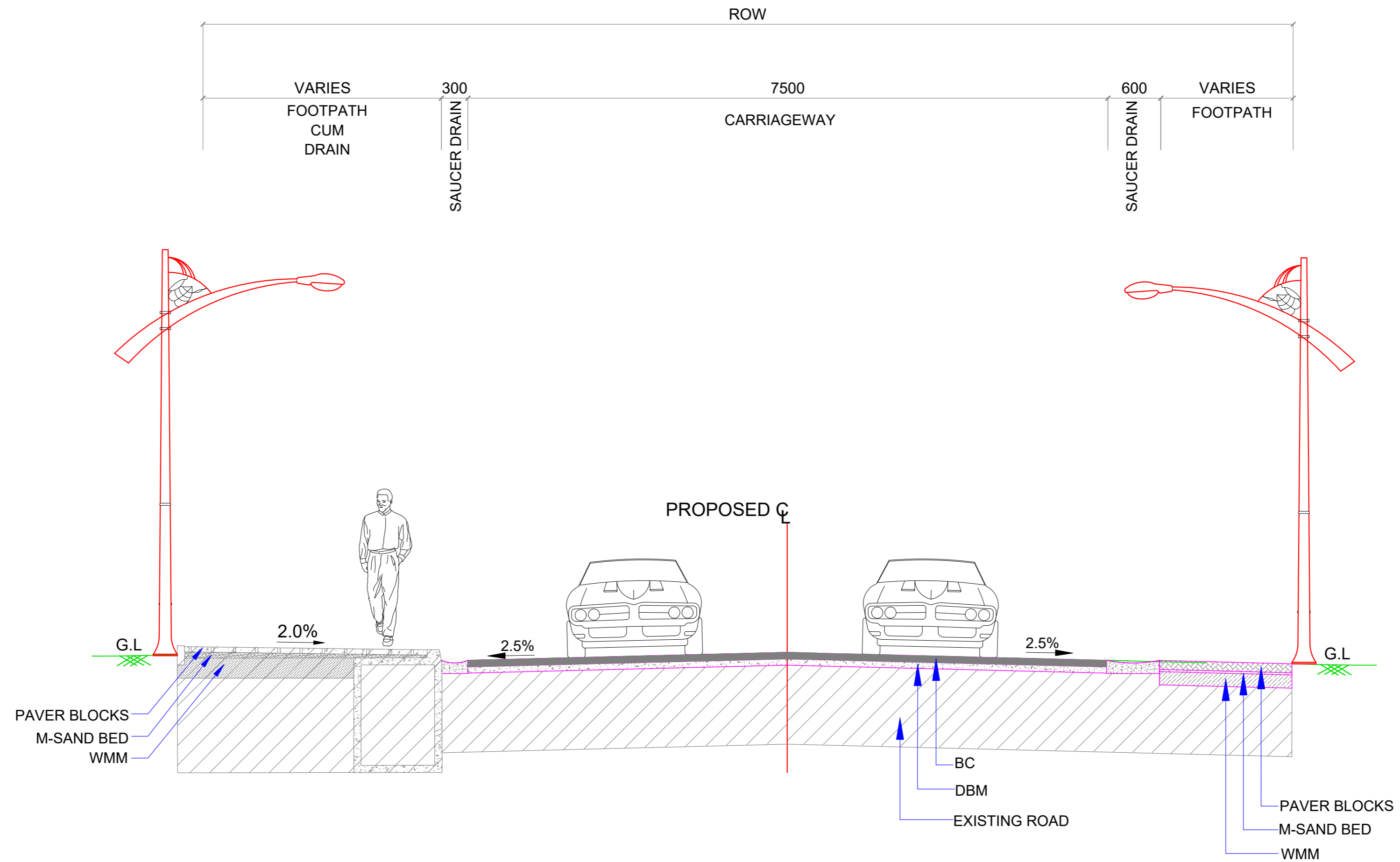
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PROJECT :
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TITLE :
TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 12



TCS XIII : 2 LANE ROAD WITH EXISTING FOOTPATH CUM DRAIN ON LHS SIDE & FOOTPATH ON RHS

NOTE :
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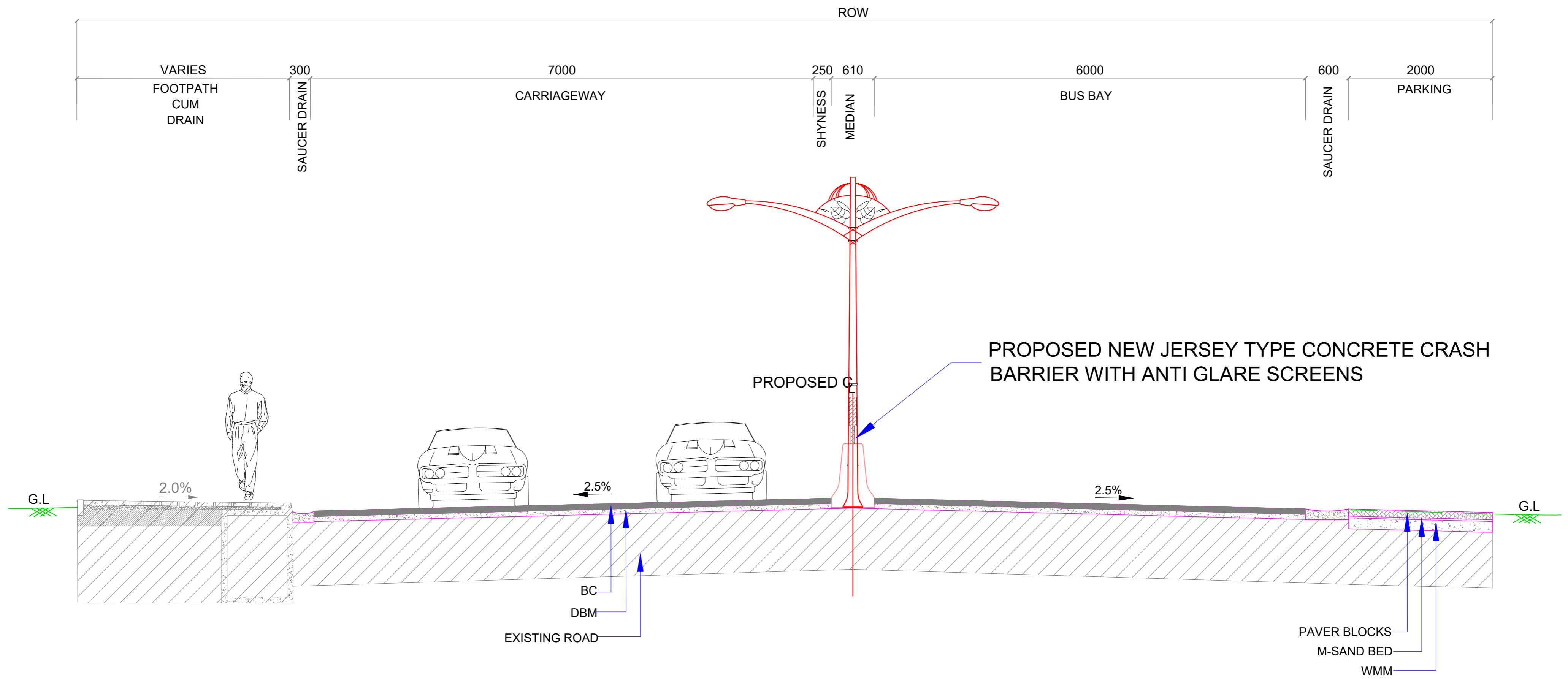
PROJECT :

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ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 13



TCS XIV :2 LANE ROAD WITH BUSBAY & PARKING ON RHS AND EXISTING FOOTPATH CUM DRAIN ON LHS

NOTE :
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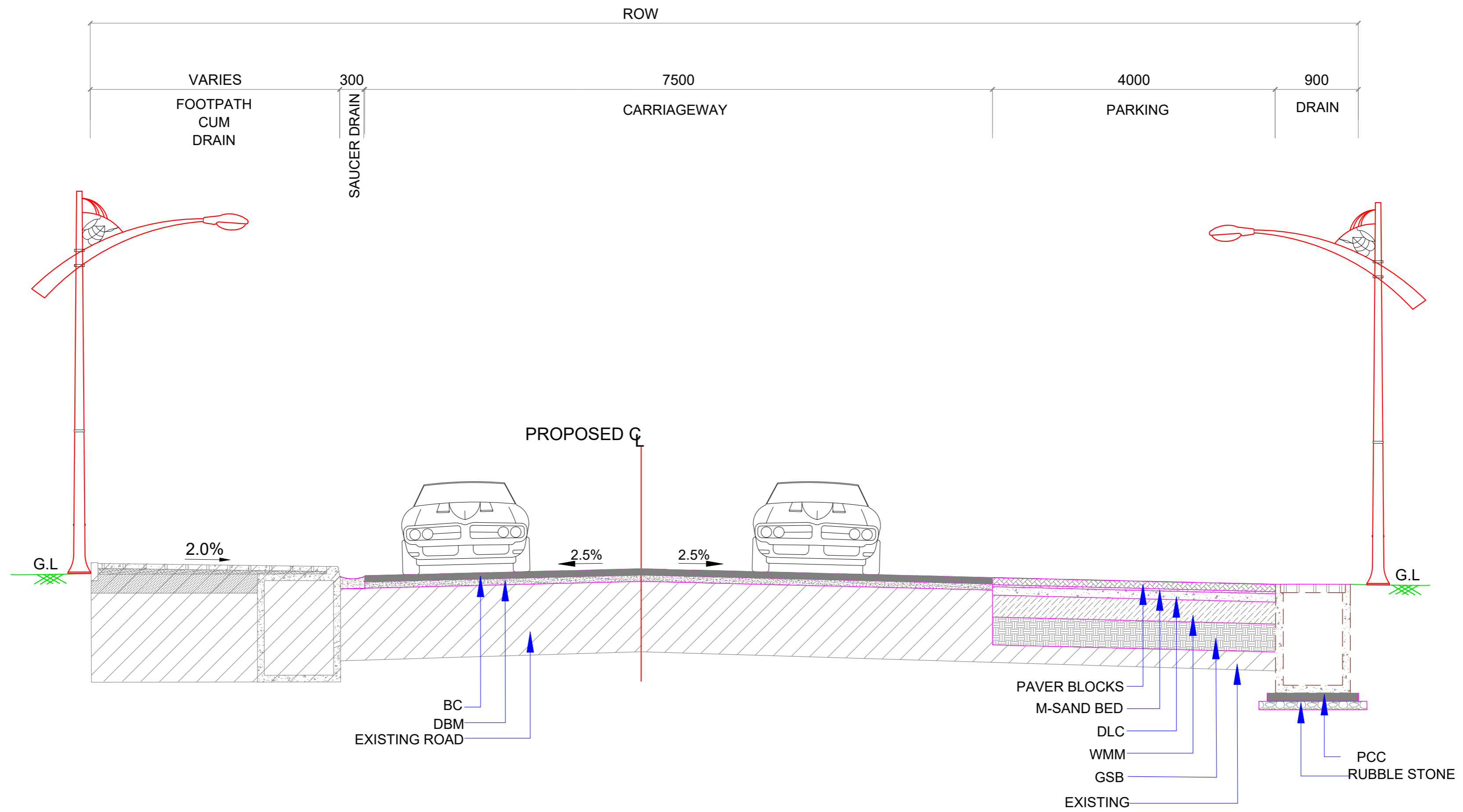
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 14



TCS XV : 2 LANE ROAD WITH PARKING & DRAIN ON RHS AND EXISTING FOOTPATH CUM DRAIN ON LHS

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

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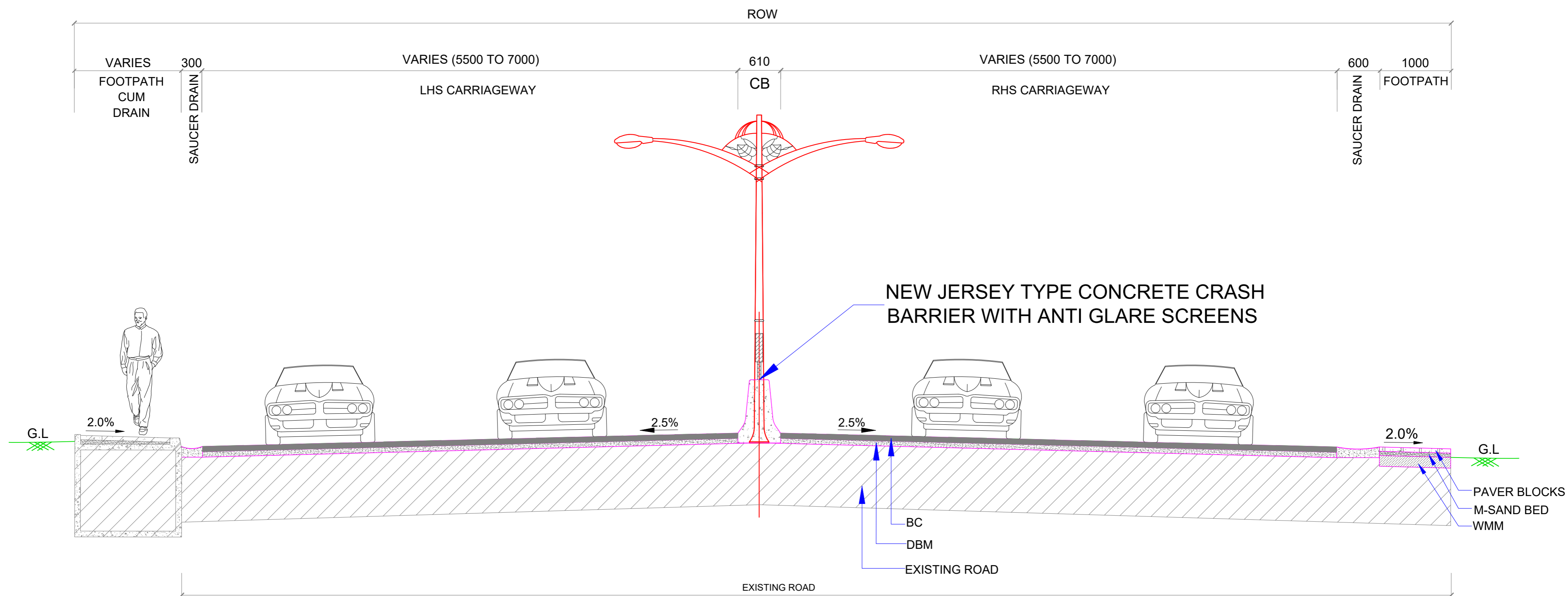
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 15



TCS XVI :INTERMEDIATE / 4 LANE DIVEDED CARRIAGE WAYWITH EXISTING FOOTPATH CUM DRAIN ON LHS & PAVER BLOCKS ON RHS

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

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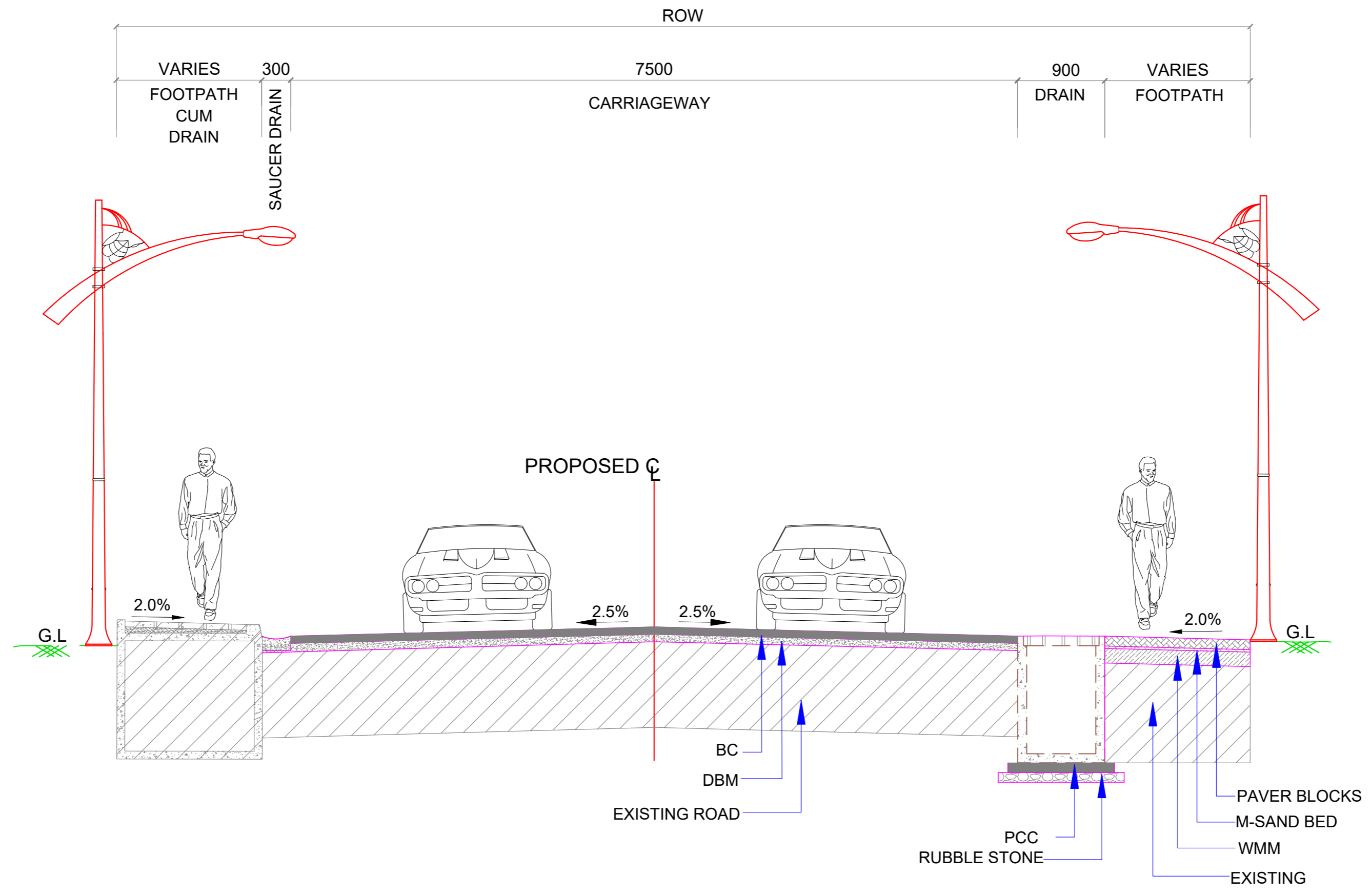
PROJECT :

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ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 16



TCS XVII :2 LANE ROAD WITH EXISTING FOOTPATH CUM DRAIN ON LHS AND DRAIN AND FOOTPATH ON RHS

NOTE :
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Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: aarvee@aarvee.net; web: www.aarvee.com

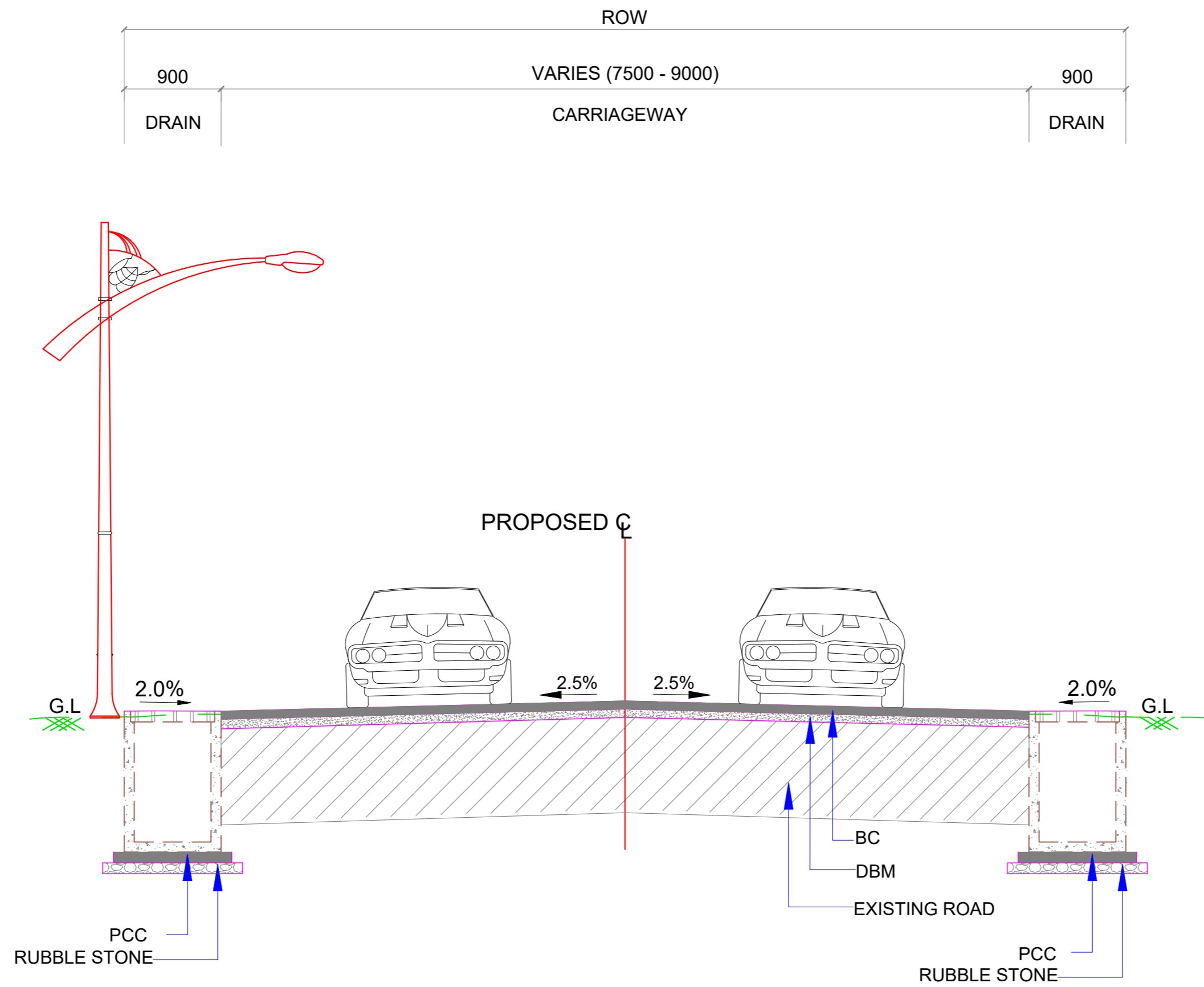
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :





TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 17



TCS XVIII : 2 LANE / 2 LANE WITH PAVED SHOULDER WITH DRAIN ON BOTH SIDES

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
 G. KRISHNA	 P. SATISH	 P. SRINIVAS RAO	 S. S. REDDY	FEB - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	FEB - 2026	DRAFT DETAIL PROJECT REPORT		
R0	JAN - 2026	INITIAL SUBMISSION		

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :



aarvee
aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: aarvee@aarvee.net; web: www.aarvee.com

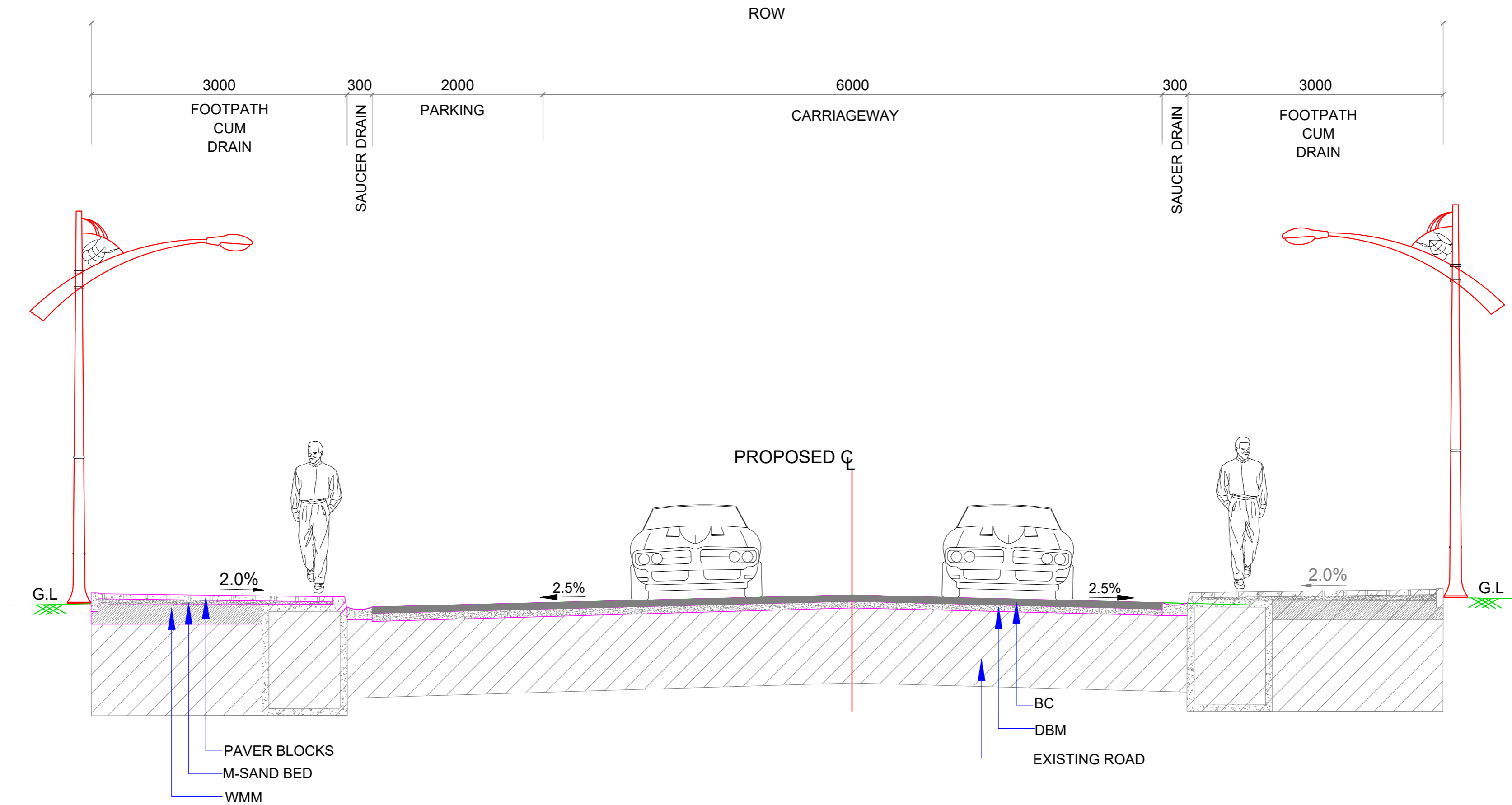
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300
ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 18



TCS XIX : 2 LANE ROAD WITH FOOTPATH CUM DRAIN ON BOTHSIDES AND PARKING ON LHS

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
G.KRISHNA	P.SATISH	P.SRINIVAS RAO	S.S.REDDY	FEB - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	FEB - 2026	DRAFT DETAIL PROJECT REPORT		
R0	JAN - 2026	INITIAL SUBMISSION		

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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e-mail: aarvee@aarvee.net; web: www.aarvee.com

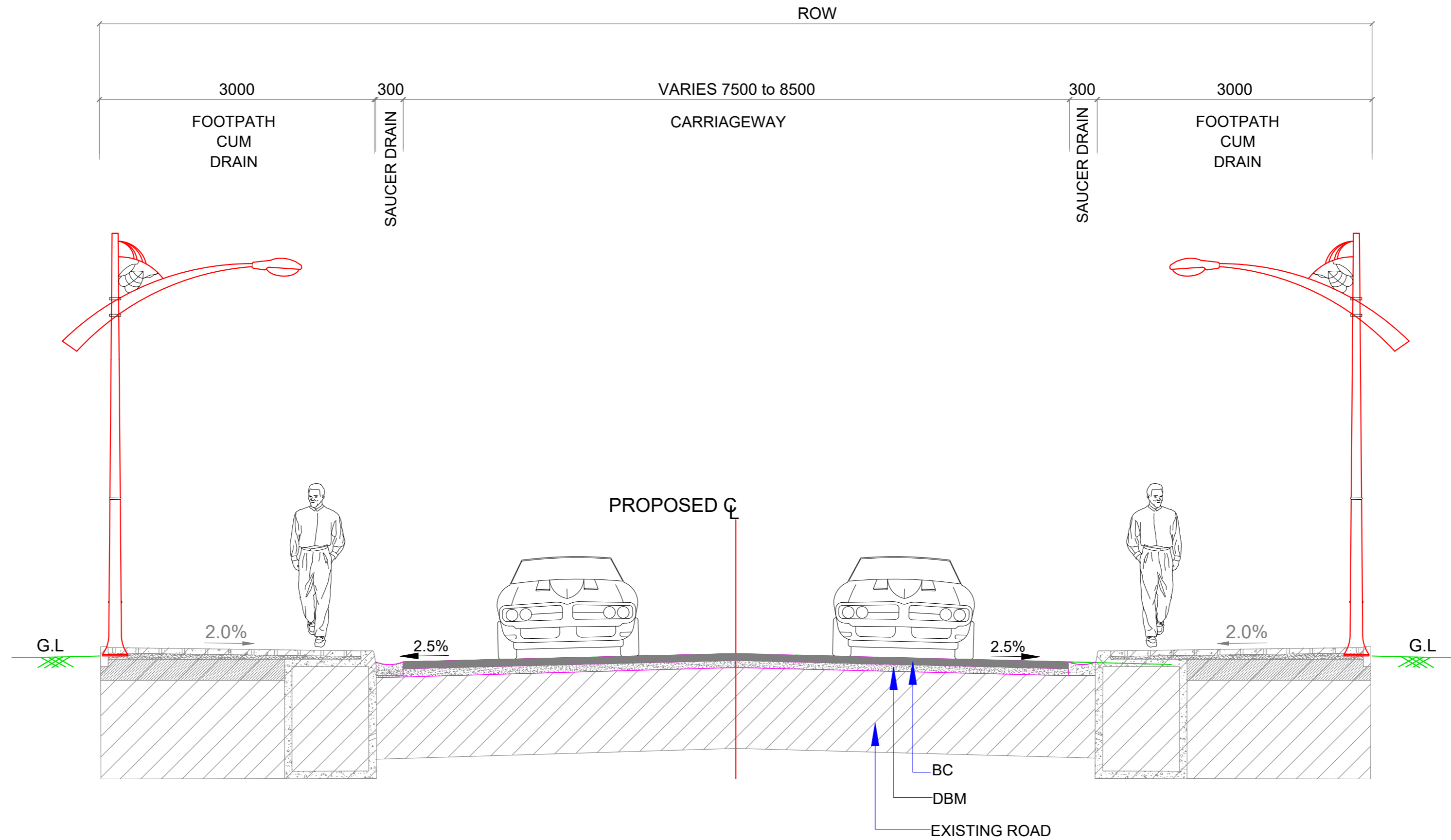
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 19



TCS XX : 2 LANE ROAD WITH EXISTING FOOTPATH CUM DRAIN ON BOTH SIDES

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE FEB - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	FEB - 2026	DRAFT DETAIL PROJECT REPORT		
R0	JAN - 2026	INITIAL SUBMISSION		

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: aarvee@aarvee.net; web: www.aarvee.com

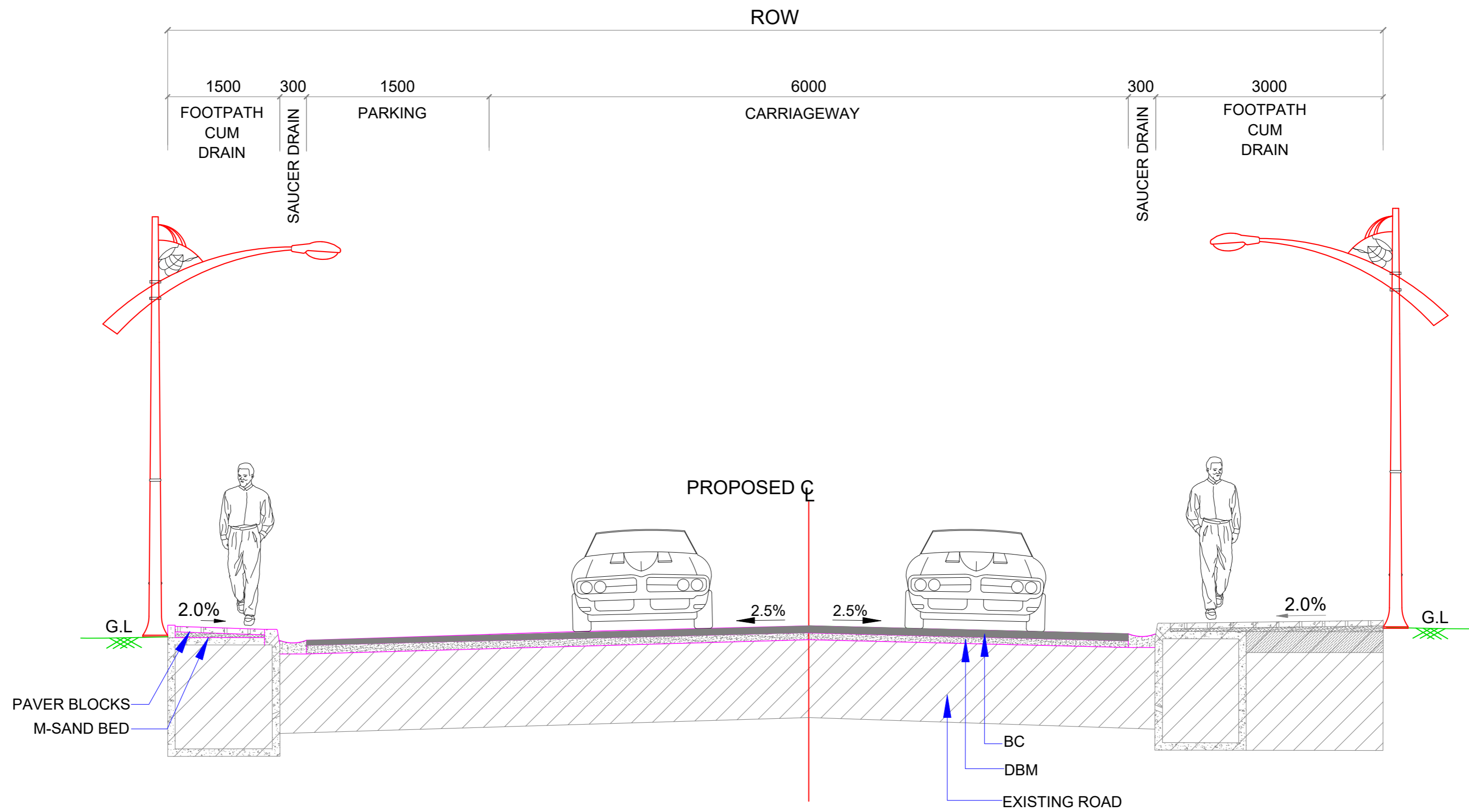
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 20



TCS XXI : INTERMEDIATE LANE ROAD WITH LHS PARKING AND IMPROVEMENT OF DRAIN CUM FOOTPATH ON BOTH SIDES

NOTE :
ALL DIMENSIONS ARE IN MILLIMETERS

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
				FEB - 2026
G.KRISHNA	P.SATISH	P.SRINIVAS RAO	S.S.REDDY	

REVISION NO.	DATE	DESCRIPTION	REVISED BY
R1	FEB - 2026	DRAFT DETAIL PROJECT REPORT	
R0	JAN - 2026	INITIAL SUBMISSION	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

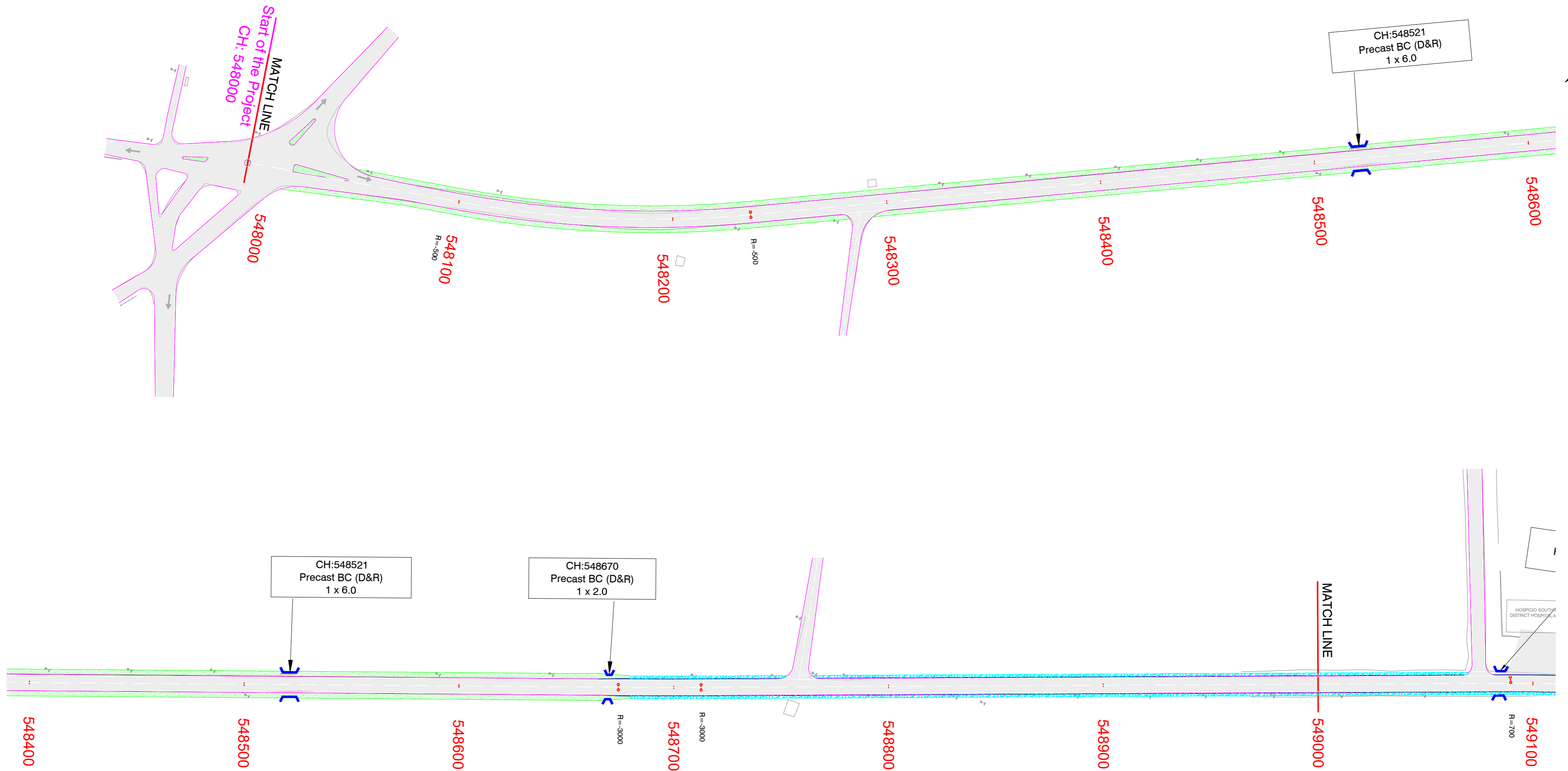
TYPICAL CROSS SECTIONS

DRG. NO. AA / 2667 / GOA / TCS / 21

ALIGNMENT PLAN

PATRADEVI ←

→ POLLEM



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
				APR - 2026
G.KRISHNA	P.SATISH	P.SRINIVAS RAO	S.S.REDDY	

REVISION NO.	DATE	DESCRIPTION	REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT	
R0	FEB - 2026	INITIAL SUBMISSION	

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

Horizontal 1:2500

Vertical 1:250

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee engineering consultants limited

Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91-40-23737633; Fax: +91-40-23736277
 e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

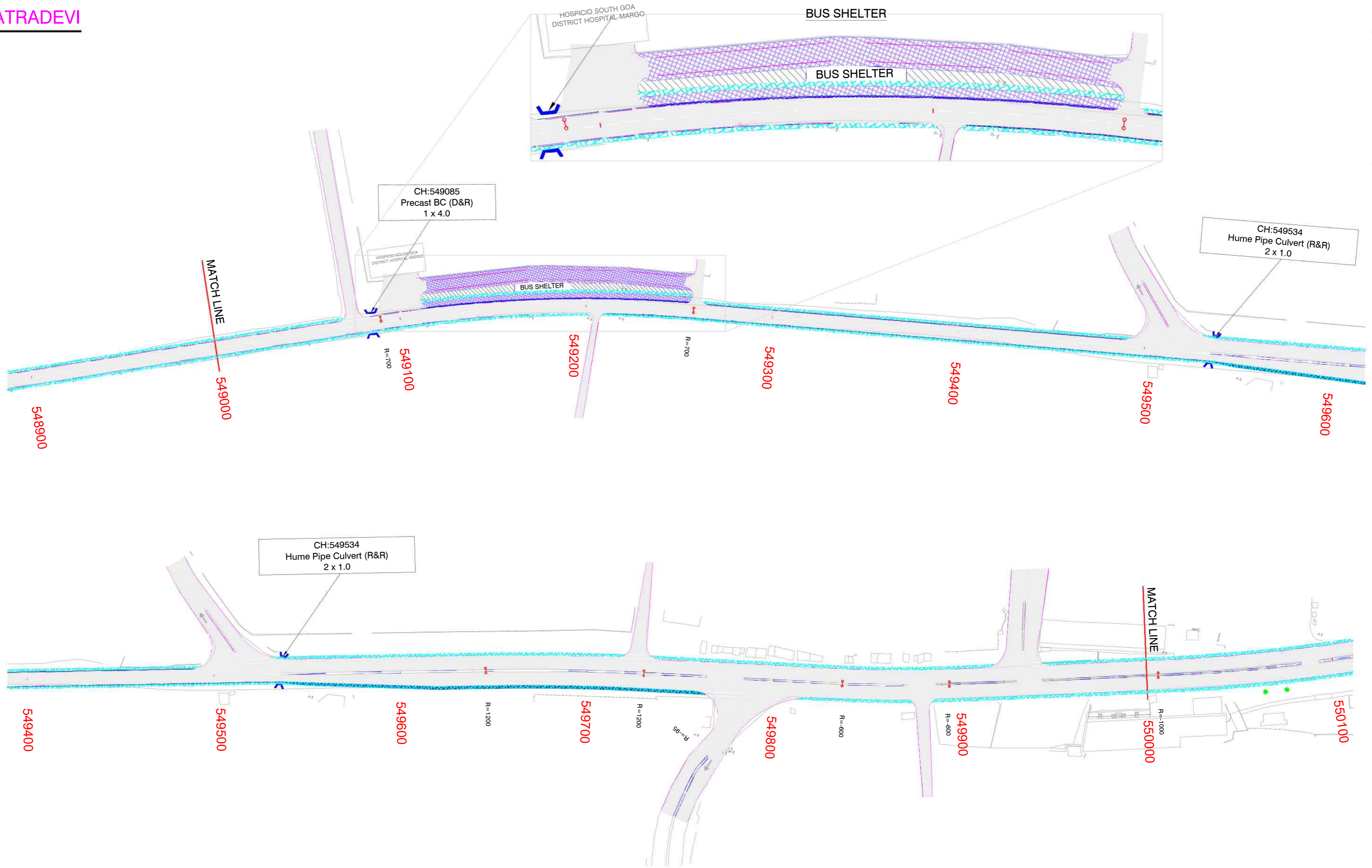
TITLE :

ALIGNMENT PLAN
FROM KM. 548+000 TO KM. 549+000

DRG. NO. AA / 2667 / GOA / AP / 01

PATRADEVI ←

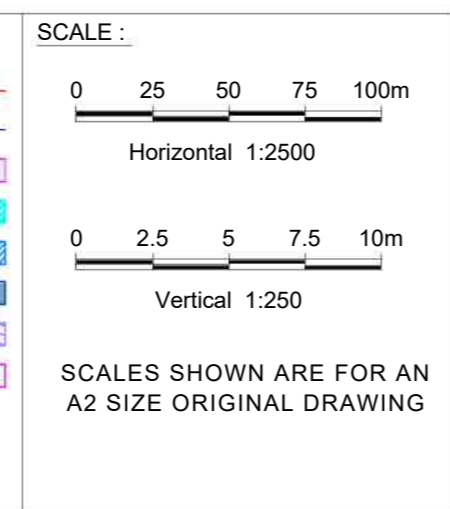
→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	



CONSULTANT :

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e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

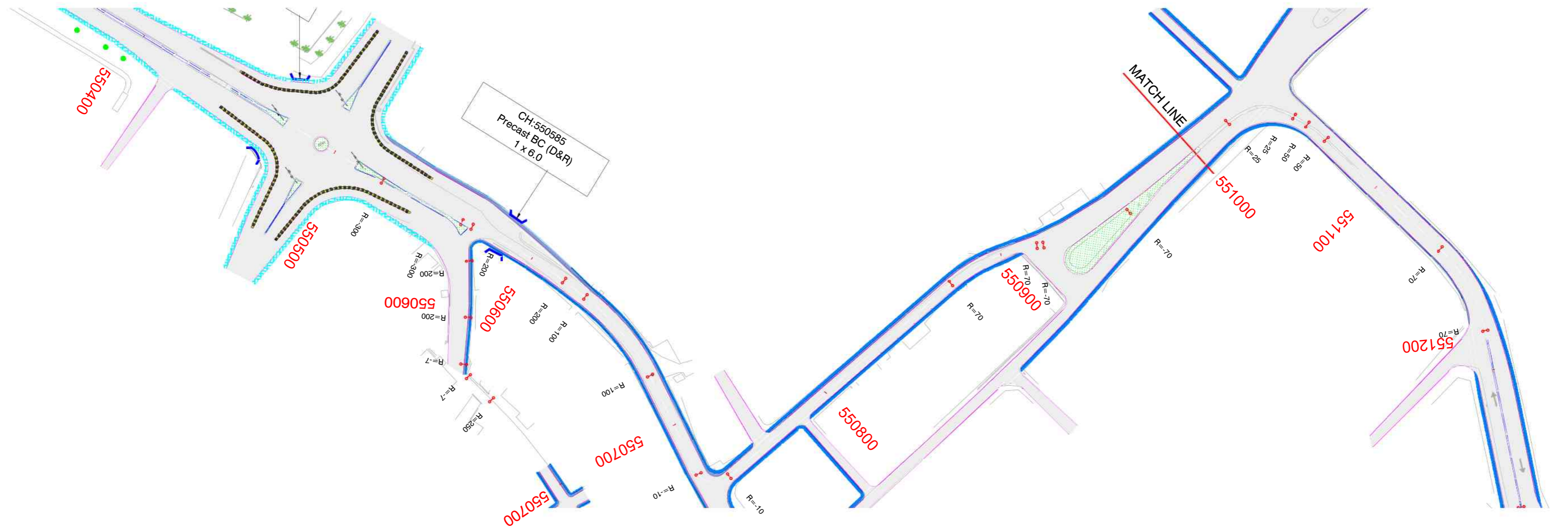
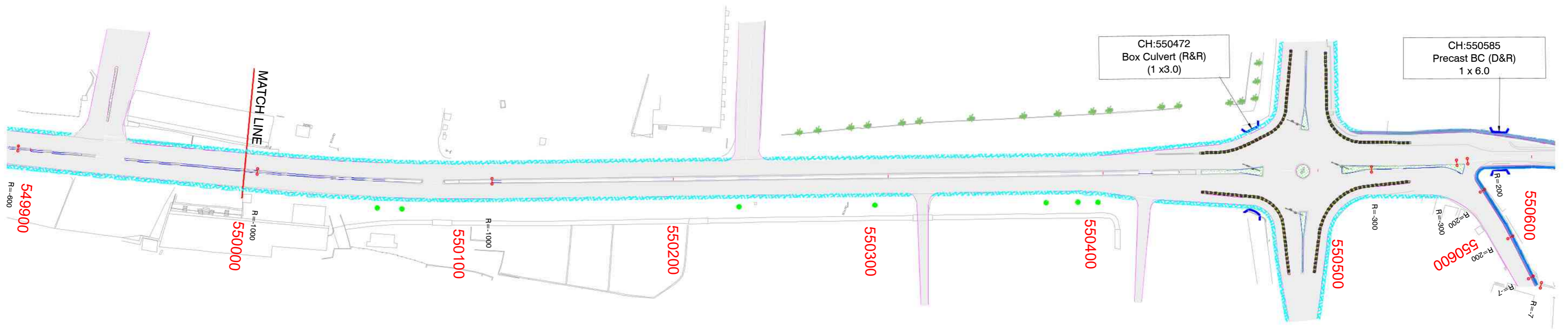
TITLE :

ALIGNMENT PLAN
FROM KM. 549+000 TO KM. 550+000

DRG. NO. AA / 2667 / GOA / AP / 02

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

0 25 50 75 100m
Horizontal 1:2500

0 2.5 5 7.5 10m
Vertical 1:250

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

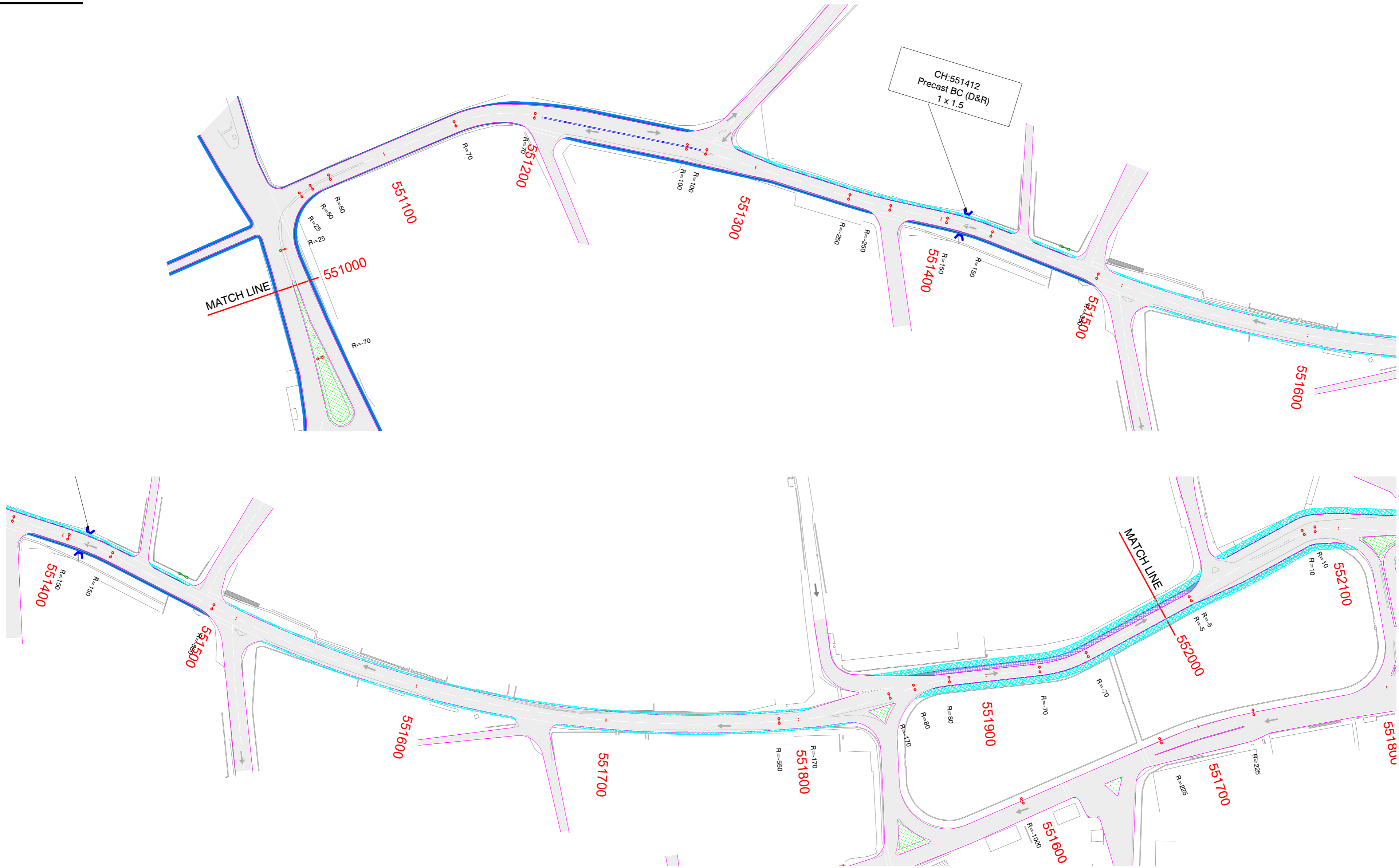
TITLE :

ALIGNMENT PLAN
FROM KM. 550+000 TO KM. 551+000

DRG. NO. AA / 2667 / GOA / AP / 03

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

0 25 50 75 100m
Horizontal 1:2500
0 2.5 5 7.5 10m
Vertical 1:250
SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
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e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

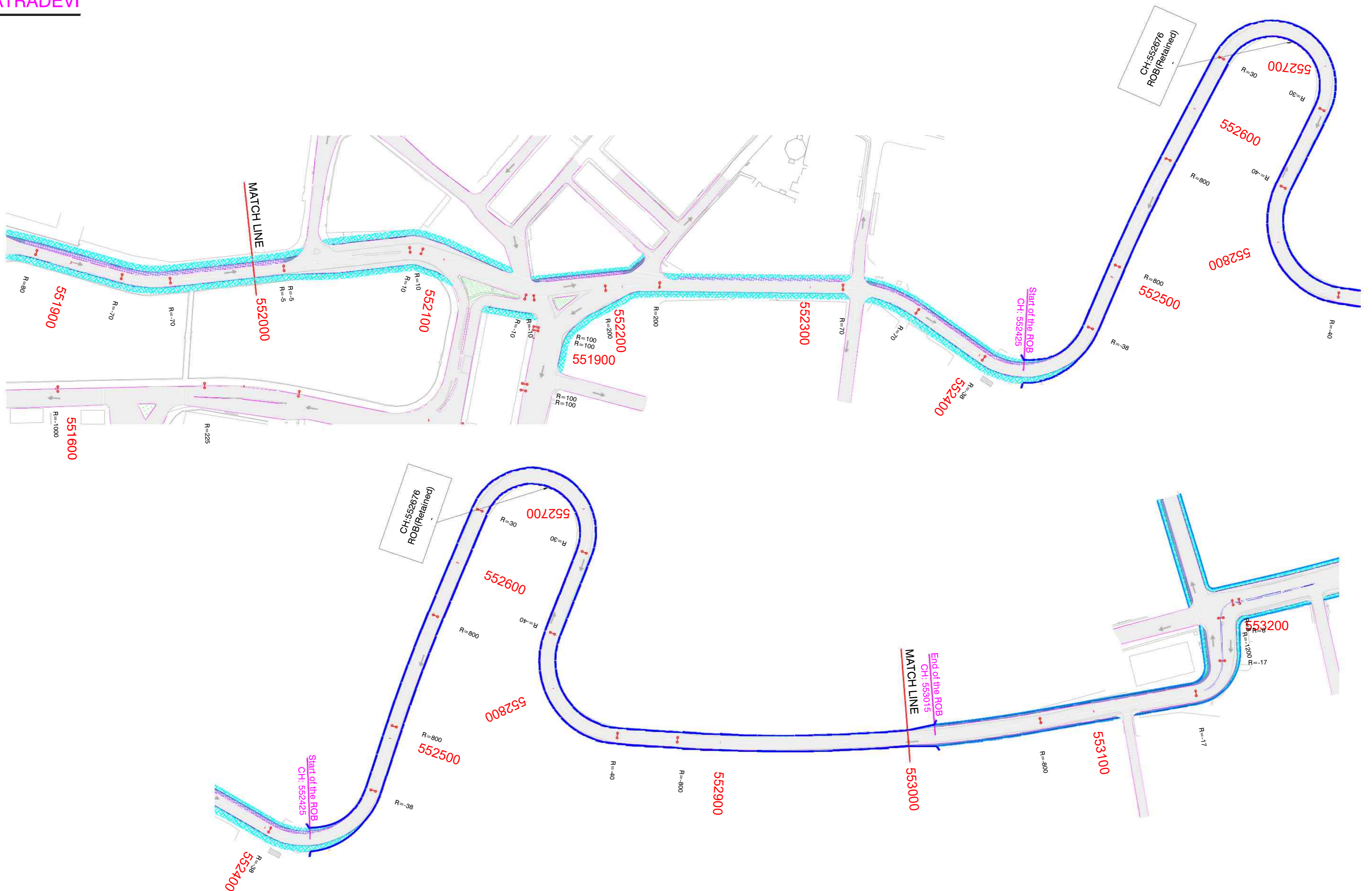
TITLE :

ALIGNMENT PLAN
FROM KM. 551+000 TO KM. 552+000

DRG. NO. AA / 2667 / GOA / AP / 04

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

0 25 50 75 100m
Horizontal 1:2500

0 2.5 5 7.5 10m
Vertical 1:250

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

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e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

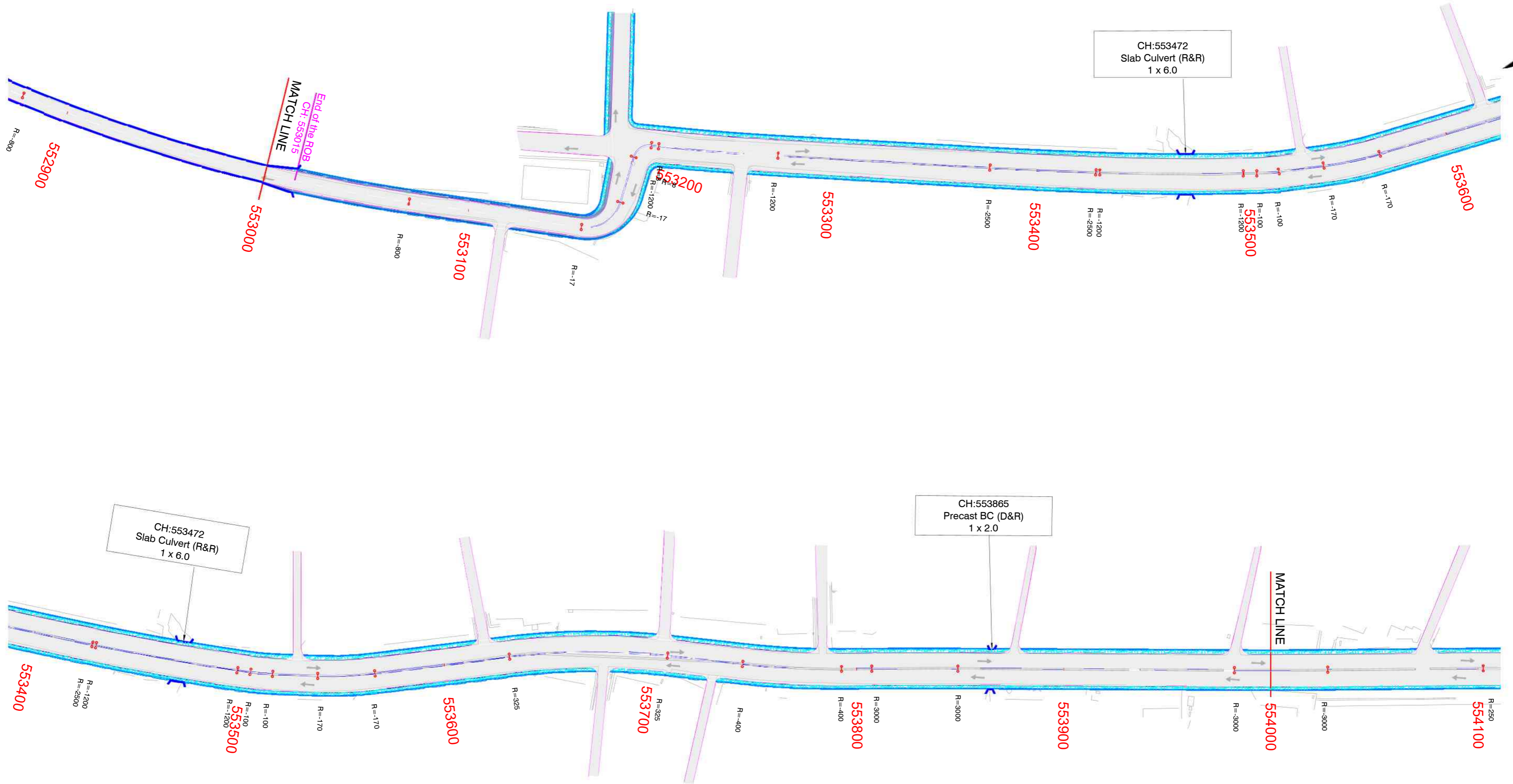
TITLE :

ALIGNMENT PLAN
FROM KM. 552+000 TO KM. 553+000

DRG. NO. AA / 2667 / GOA / AP / 05

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

0 25 50 75 100m
Horizontal 1:2500

0 2.5 5 7.5 10m
Vertical 1:250

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

ALIGNMENT PLAN
FROM KM. 553+000 TO KM. 554+000

DRG. NO. AA / 2667 / GOA / AP / 06

PATRADEVI ←

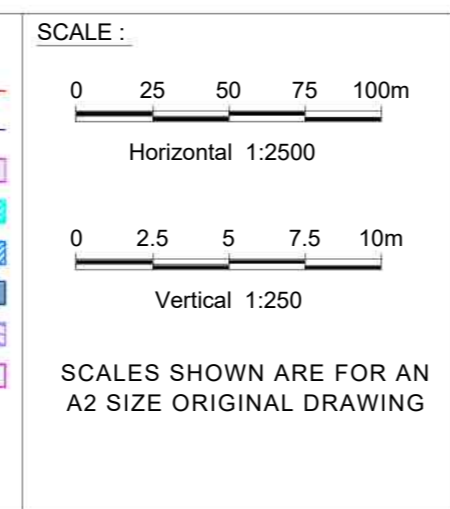
→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	



CONSULTANT :

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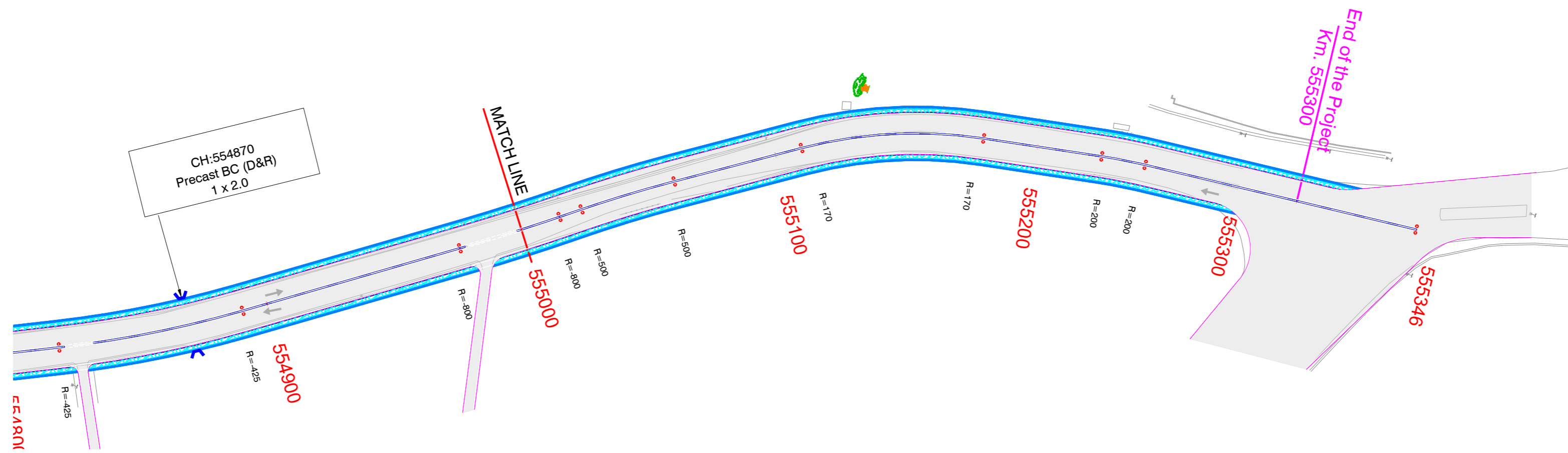
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

ALIGNMENT PLAN
FROM KM. 554+000 TO KM. 554+500

DRG. NO. AA / 2667 / GOA / AP / 07



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

Horizontal 1:2500
0 25 50 75 100m

Vertical 1:250
0 2.5 5 7.5 10m

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

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e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

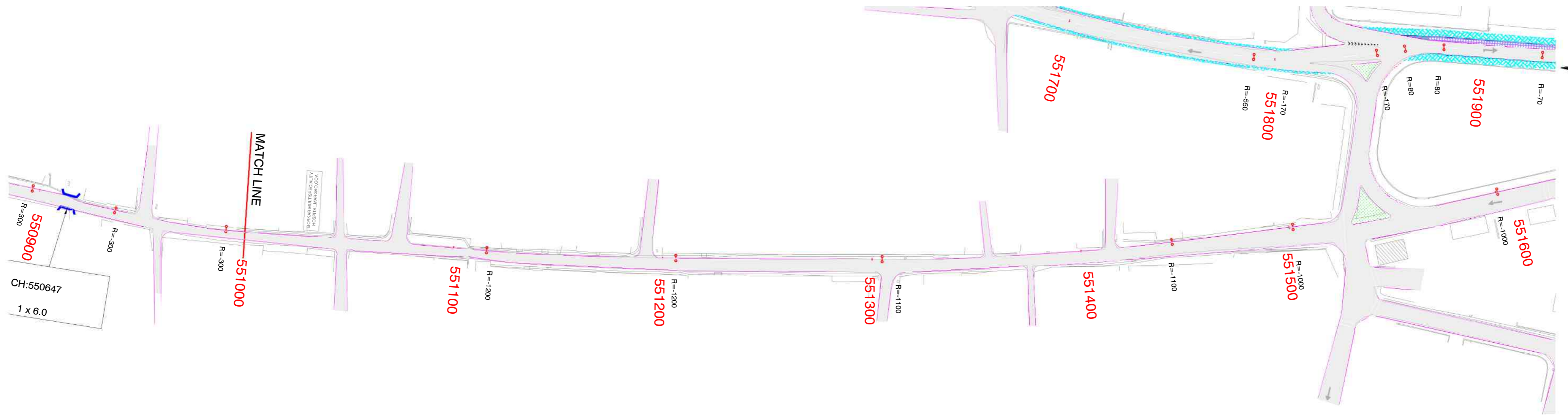
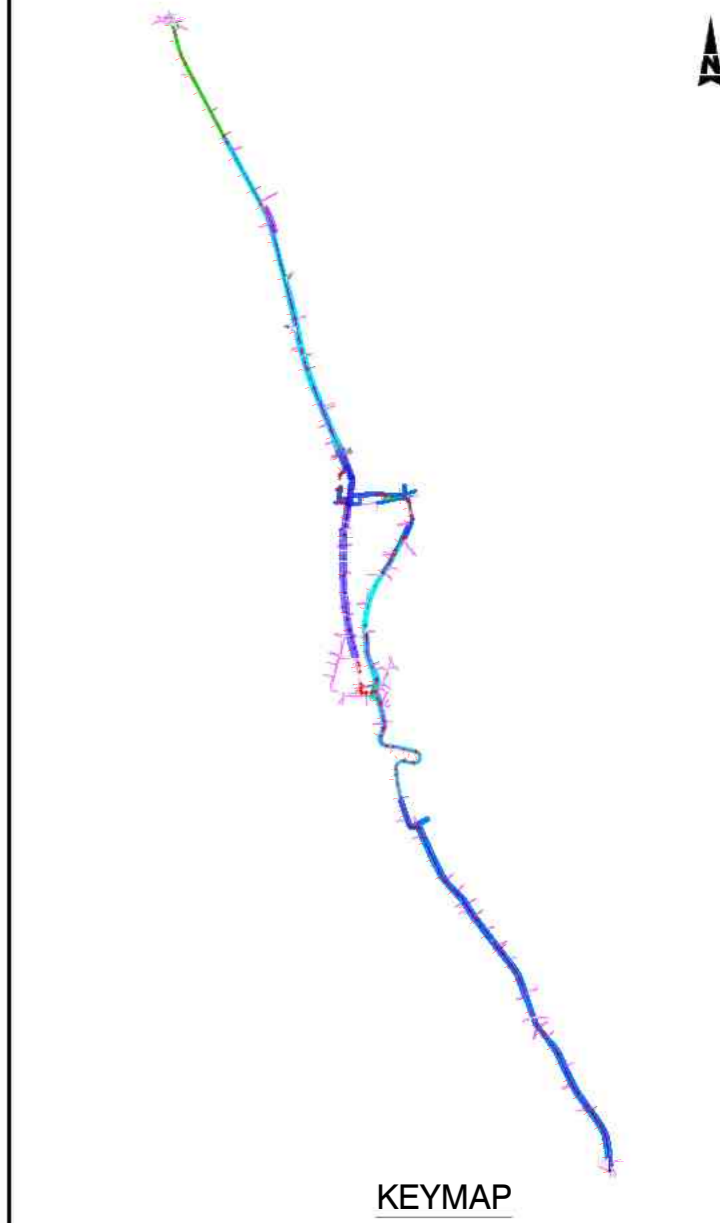
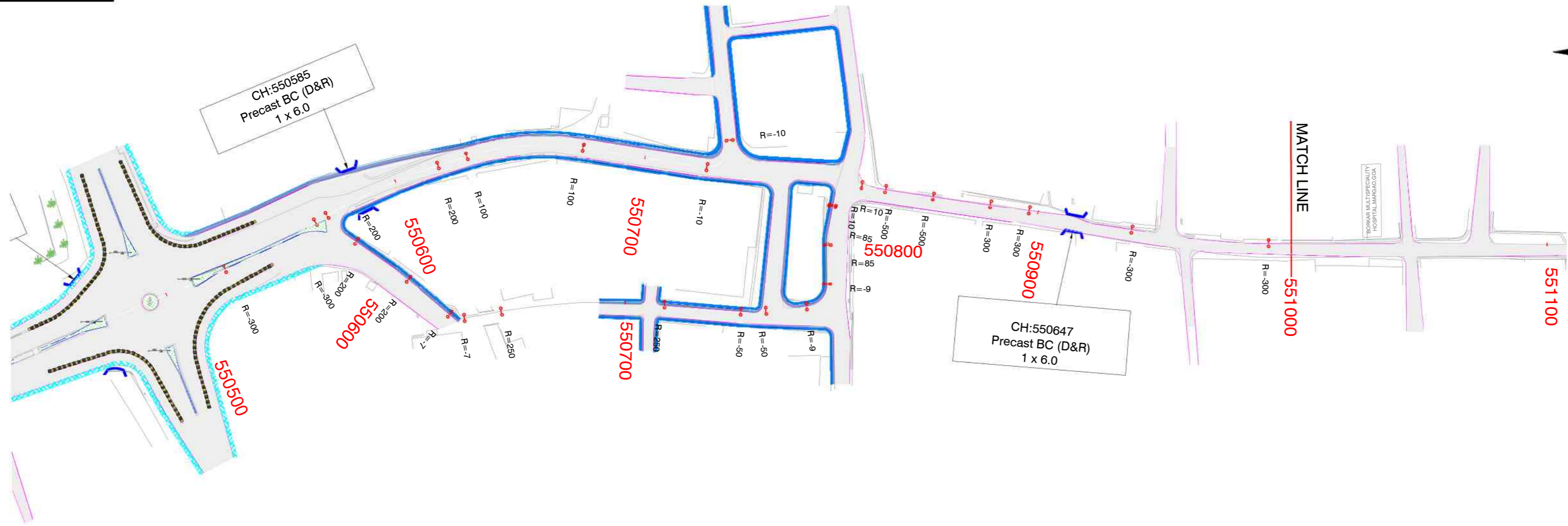
TITLE :

ALIGNMENT PLAN
FROM KM. 555+000 TO KM. 555+300

DRG. NO. AA / 2667 / GOA / AP / 08

PATRADEVI ←

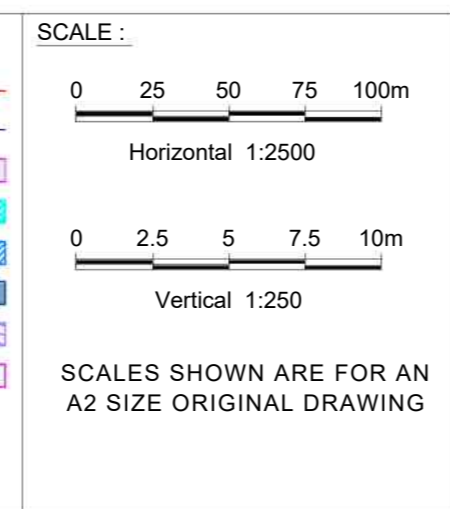
→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	



CONSULTANT :

aarvee engineering consultants limited
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 e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

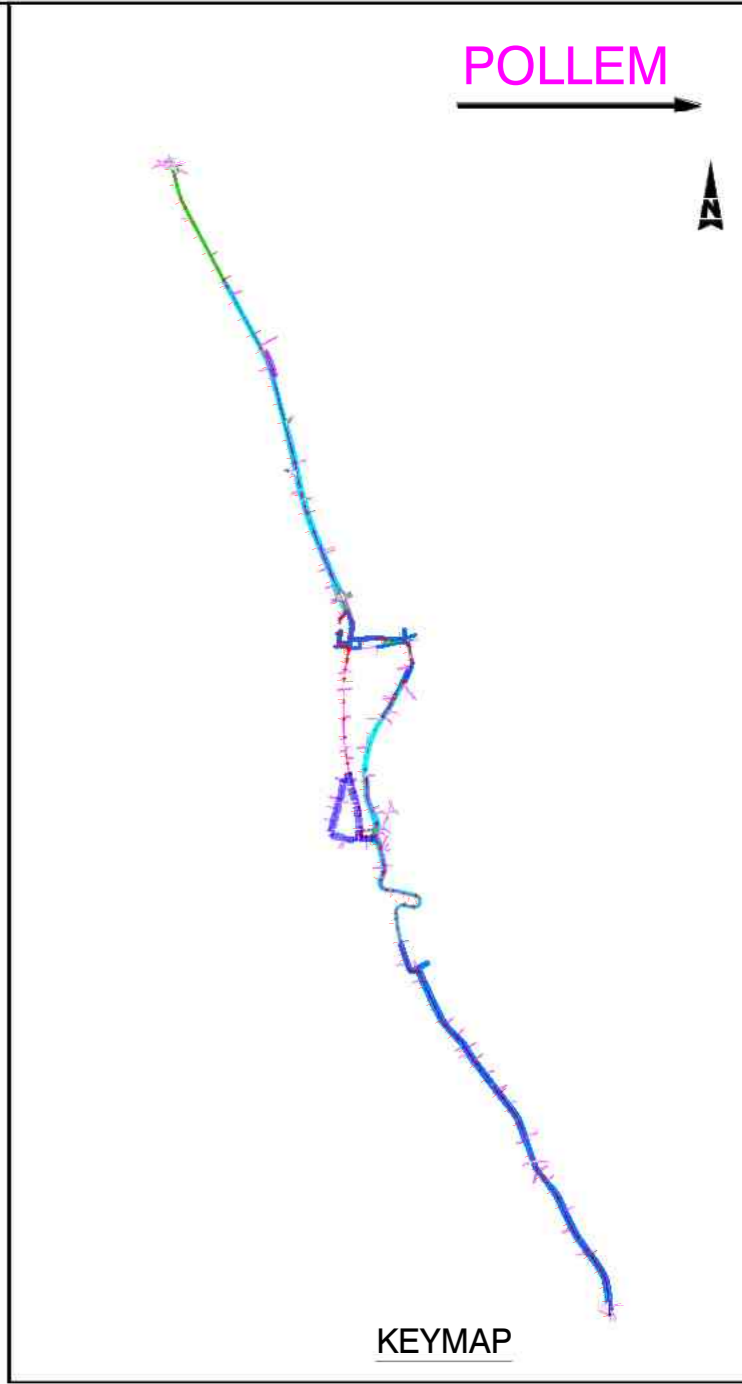
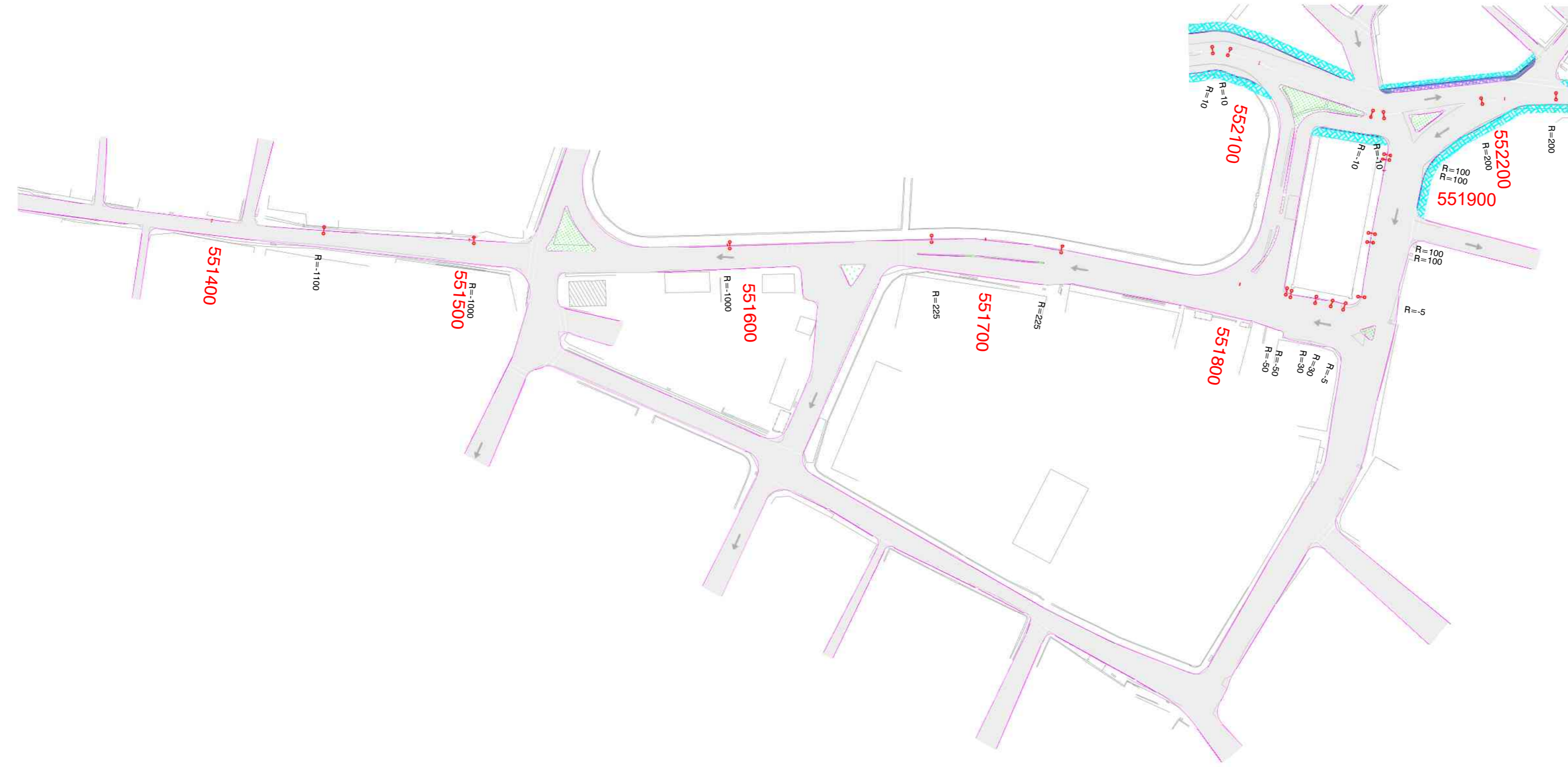
TITLE :

ALIGNMENT PLAN
 RHS SIDE ROAD FROM KM. 550+600.00 TO KM. 551+000

DRG. NO. AA / 2667 / GOA / AP / 09

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath/Saucer Drain	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

SCALE :

Horizontal 1:2500
0 25 50 75 100m

Vertical 1:250
0 2.5 5 7.5 10m

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

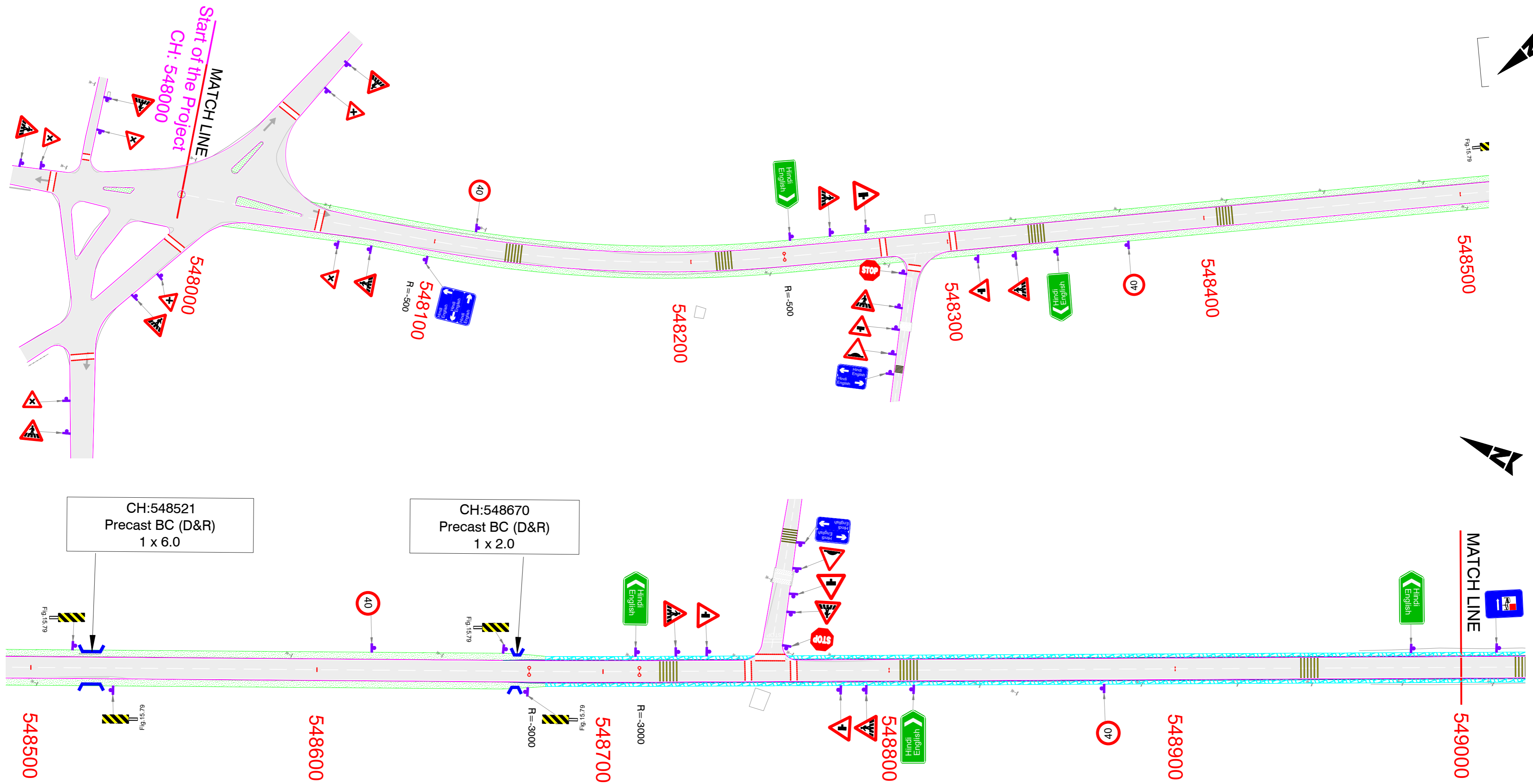
ALIGNMENT PLAN
RHS SIDE ROAD FROM KM. 551 +500.00 TO KM. 551 +800

DRG. NO. AA / 2667 / GOA / AP / 10

SIGNAGE PLAN

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
aarvee engineering consultants limited
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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

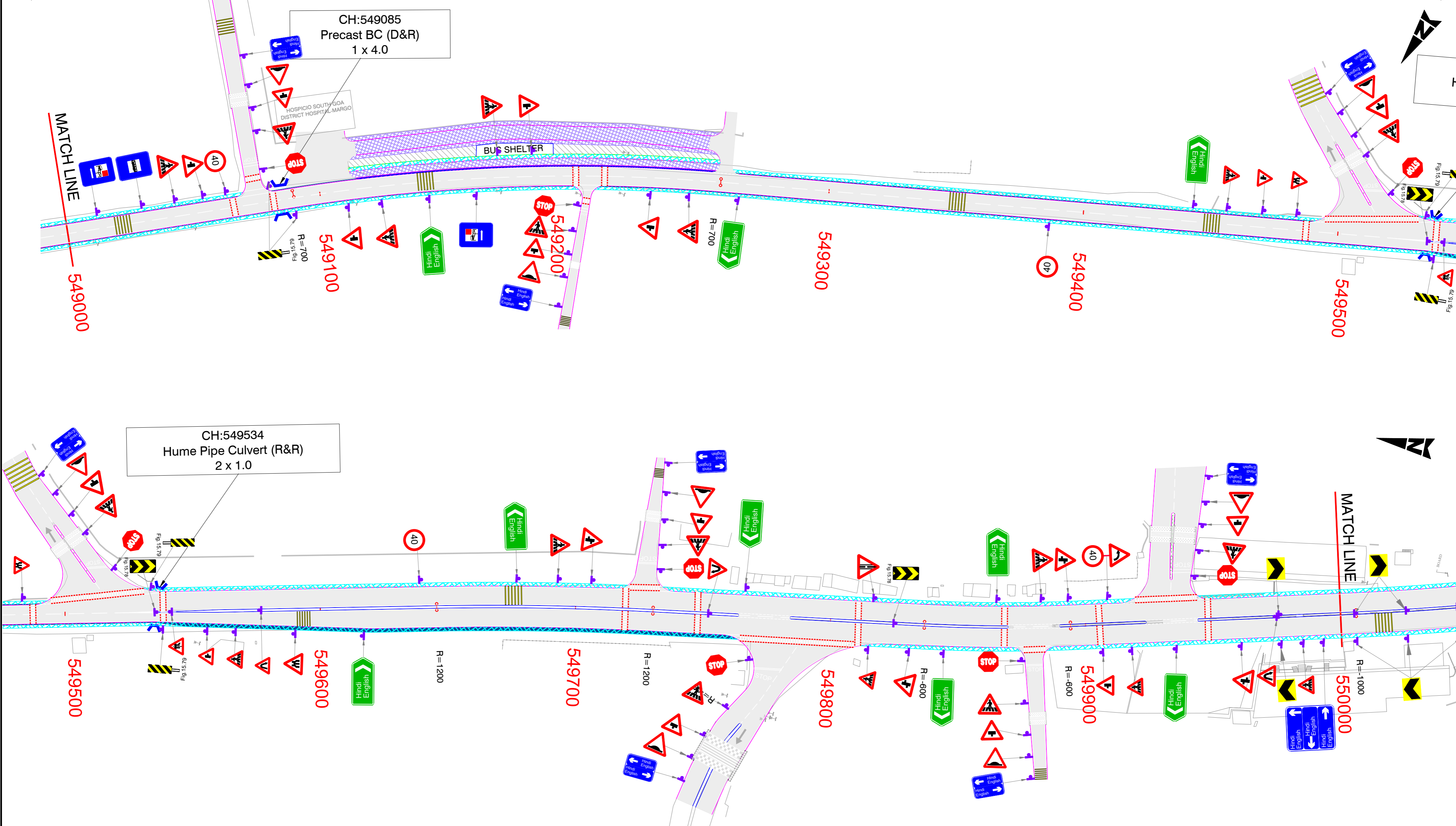
TITLE :

SIGNAGE PLAN
FROM KM. 548+000 TO KM. 549+000

DRG. NO. AA / 2667 / GOA / SP / 01

PATRADEVI ←

→ POLLEM



DESIGNED BY G.KRISHNA	DRAWN BY P.SATISH	CHECKED BY P.SRINIVAS RAO	APPROVED BY S.S.REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION		REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
aarvee engineering consultants limited
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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

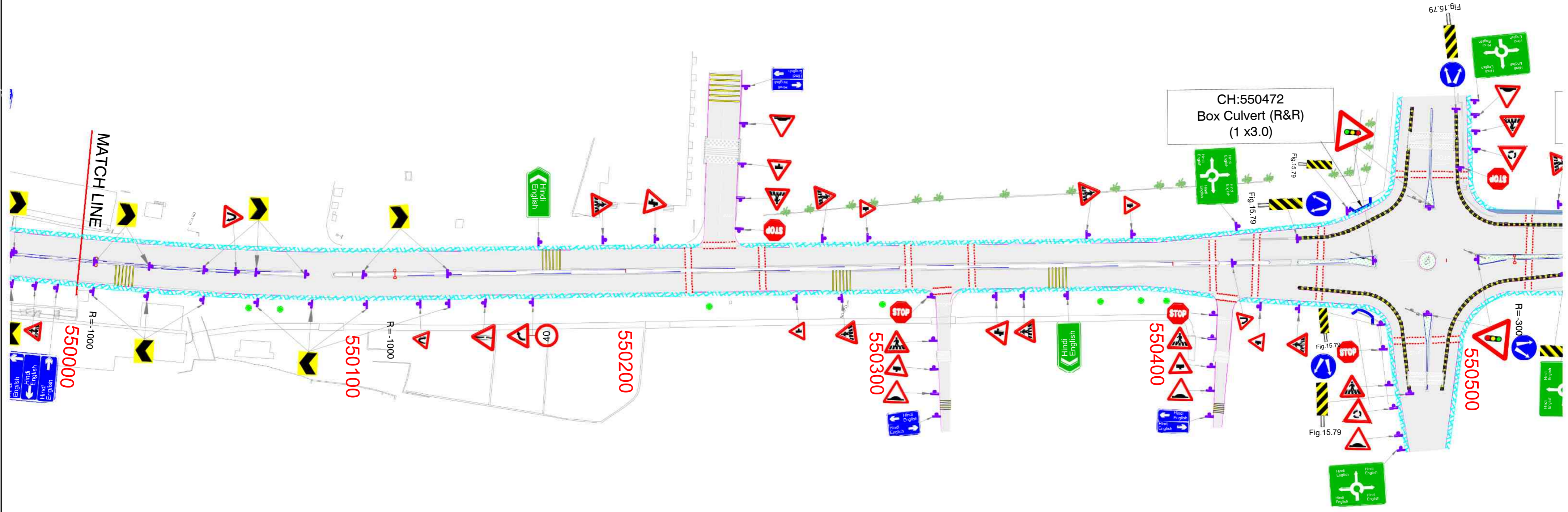
TITLE :

SIGNAGE PLAN
FROM KM. 549+000 TO KM. 550+000

DRG. NO. AA / 2667 / GOA / SP / 02

PATRADEVI ←

→ POLLEM



DESIGNED BY <i>G.Krishna</i> G.KRISHNA	DRAWN BY <i>P.Satish</i> P.SATISH	CHECKED BY <i>P.Srinivas RAO</i> P.SRINIVAS RAO	APPROVED BY <i>S.S.Reddy</i> S.S.REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	Median		
Carriageway	Footpath		
Footpath Cum Drain	Saucer Drain		
Parking Hatch	Earthen Shoulder		

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

aarvee
aarvee engineering consultants limited
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91-40-23737633; Fax: +91-40-23736277
e-mail: aarvee@aarvee.net; web: www.aarvee.com

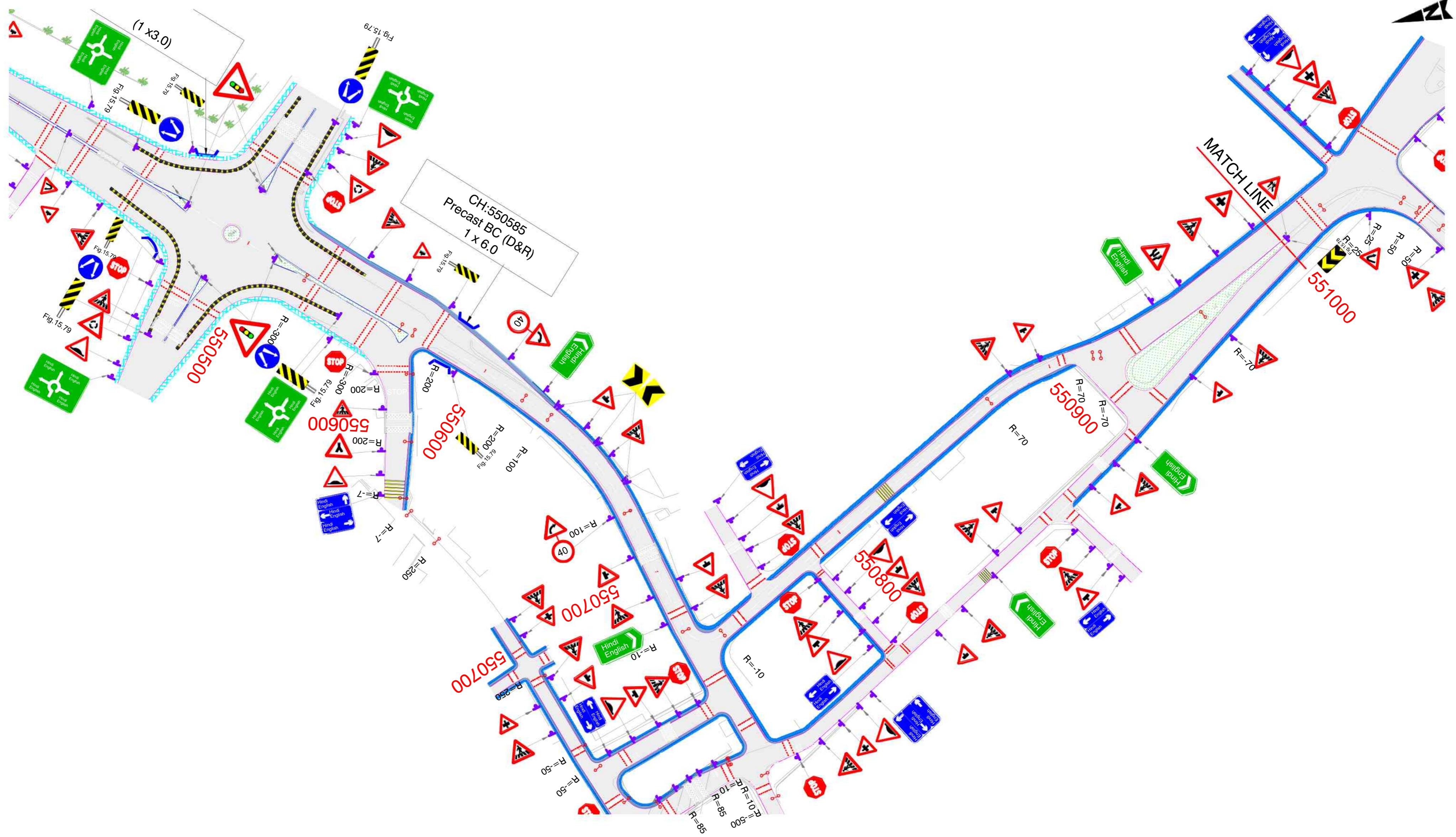
PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

SIGNAGE PLAN
FROM KM. 550+000 TO KM. 550+500

DRG. NO. AA / 2667 / GOA / SP / 03



DESIGNED BY <i>G.Krishna</i> G.KRISHNA	DRAWN BY <i>P.Satish</i> P.SATISH	CHECKED BY <i>P.Srinivas Rao</i> P.SRINIVAS RAO	APPROVED BY <i>S.S.Reddy</i> S.S.REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	Median	
Median	Carriageway	
Footpath Cum Drain	Footpath	
Footpath/Saucer Drain	Saucer Drain	
Parking Hatch	Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

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e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

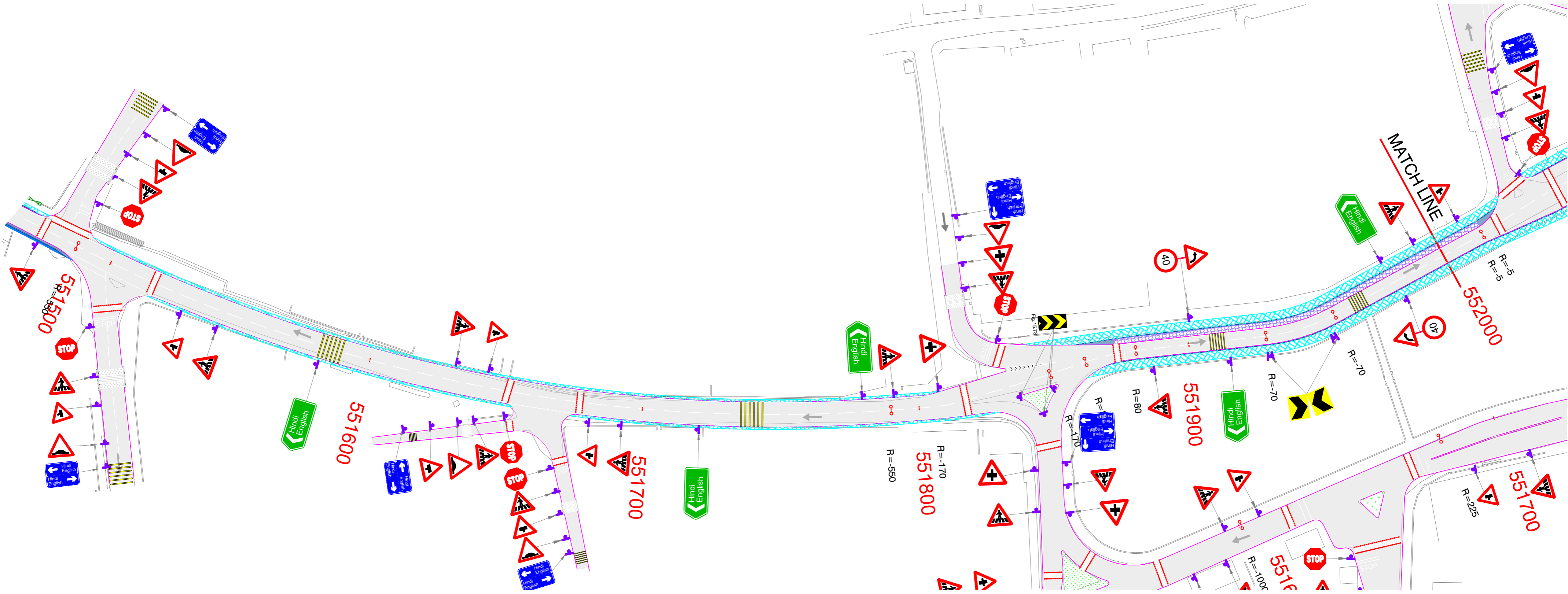
TITLE :

SIGNAGE PLAN
FROM KM. 550+500 TO KM. 551+000

DRG. NO. AA / 2667 / GOA / SP / 04

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

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 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91-40-23737633; Fax: +91-40-23736277
 e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

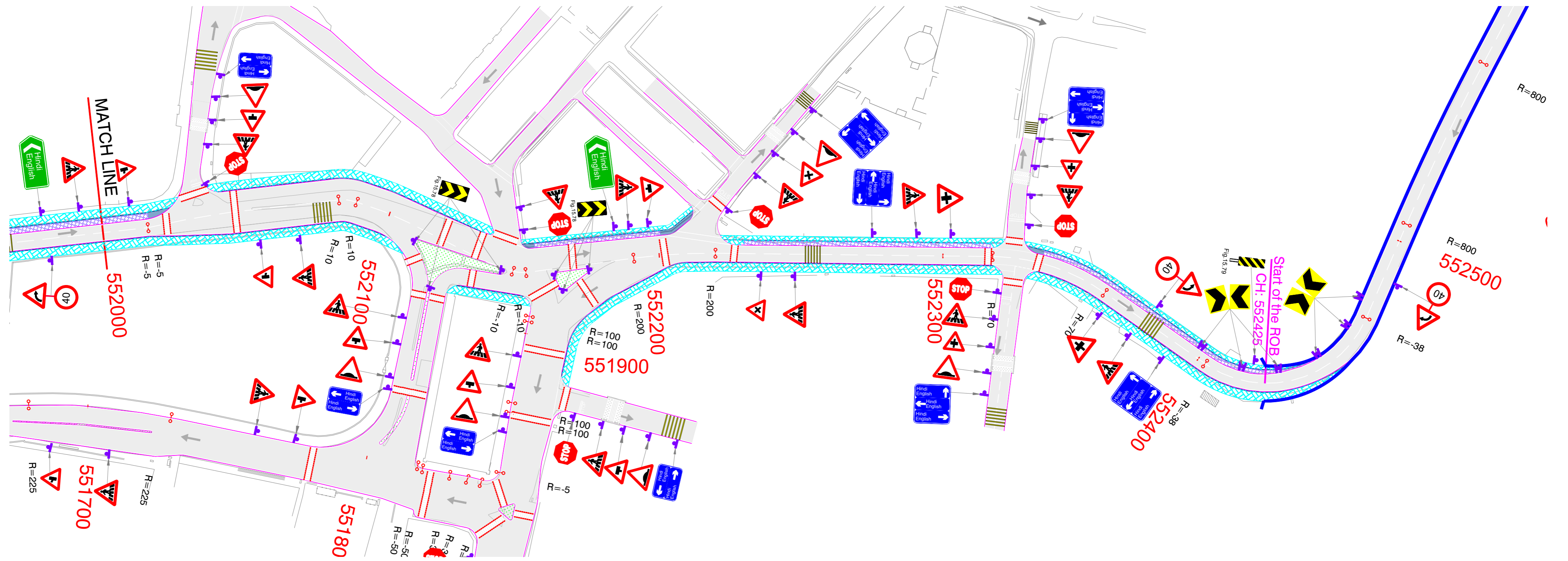
TITLE :

SIGNAGE PLAN
FROM KM. 551+500 TO KM. 552+000

DRG. NO. AA / 2667 / GOA / SP / 06

PATRADEVI ←

→ POLLEM



DESIGNED BY G. KRISHNA	DRAWN BY P. SATISH	CHECKED BY P. SRINIVAS RAO	APPROVED BY S. S. REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

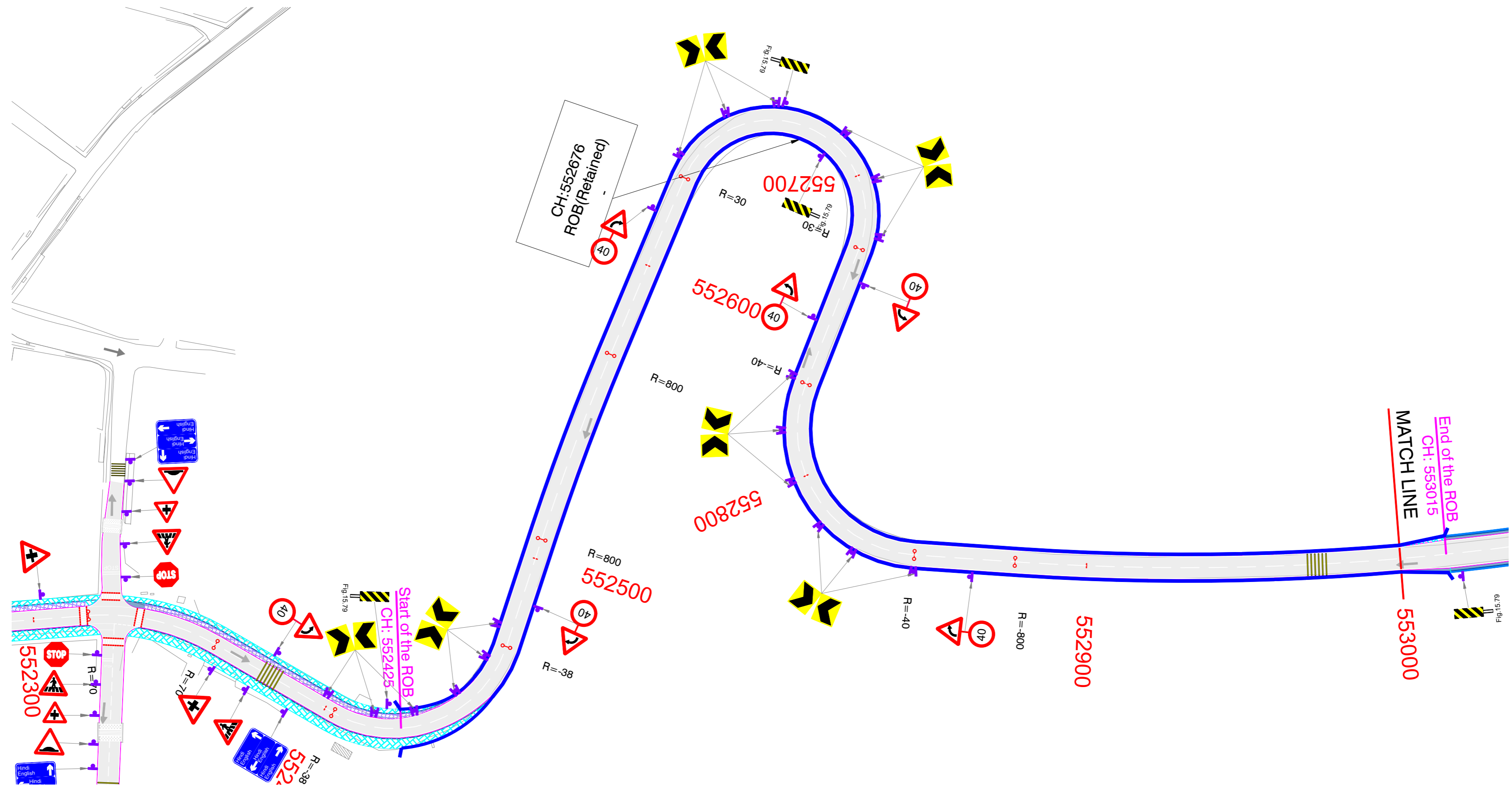
TITLE :

SIGNAGE PLAN
FROM KM. 552+000 TO KM. 552+500

DRG. NO. AA / 2667 / GOA / SP / 07

PATRADEVI ←

→ POLLEM



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
				APR - 2026
G. KRISHNA	P. SATISH	P. SRINIVAS RAO	S. S. REDDY	

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

TITLE :

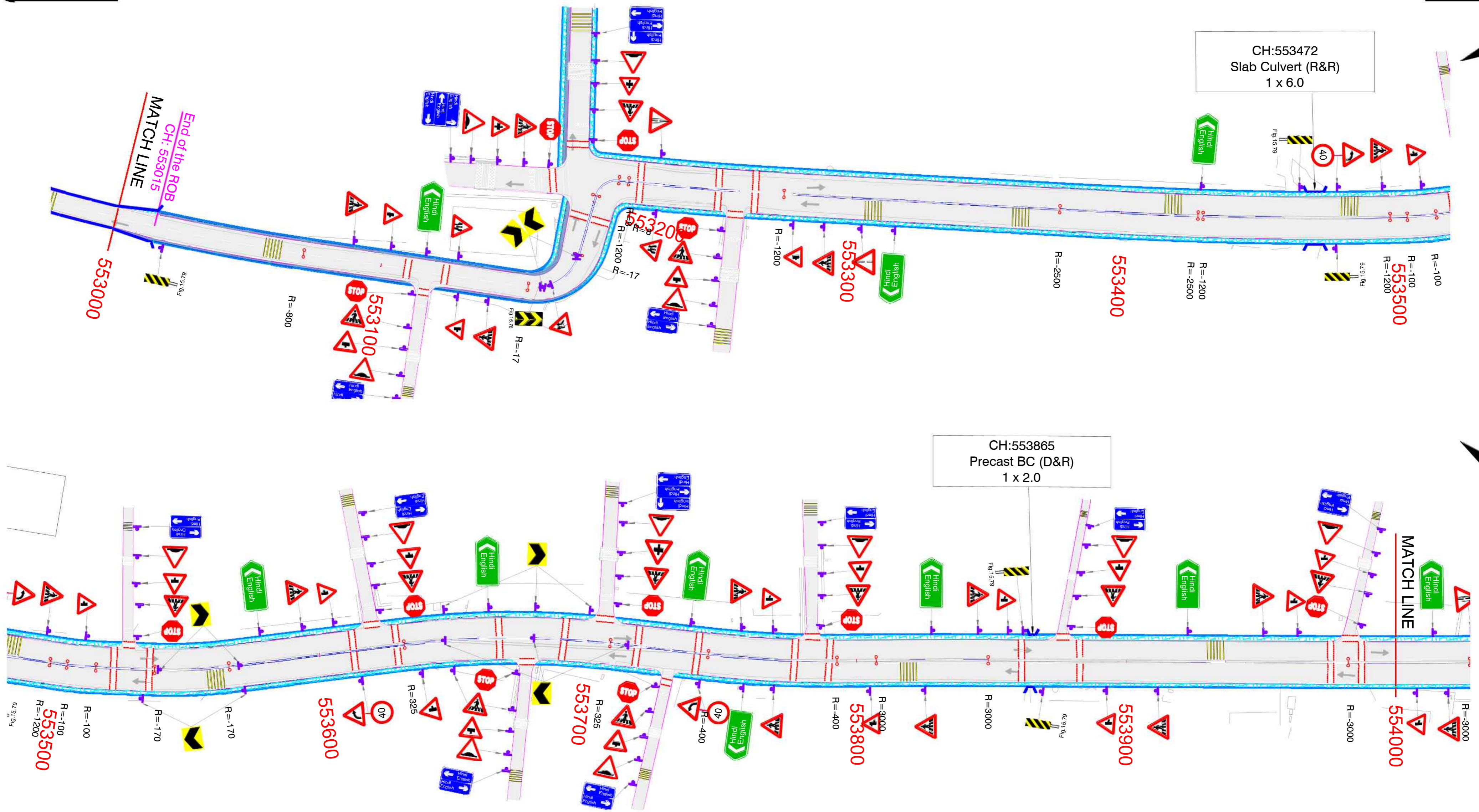
SIGNAGE PLAN
 FROM KM. 552+500 TO KM. 553+000

DRG. NO. AA / 2667 / GOA / SP / 08

REVISION NO.	DATE	DESCRIPTION	REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT	
R0	FEB - 2026	INITIAL SUBMISSION	

PATRADEVI ←

→ POLLEM



DESIGNED BY G.KRISHNA	DRAWN BY P.SATISH	CHECKED BY P.SRINIVAS RAO	APPROVED BY S.S.REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	Median
Median	Carriageway
Footpath Cum Drain	Footpath
Footpath/Saucer Drain	Saucer Drain
Saucer Drain	Parking Hatch
Parking Hatch	Earthen Shoulder

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

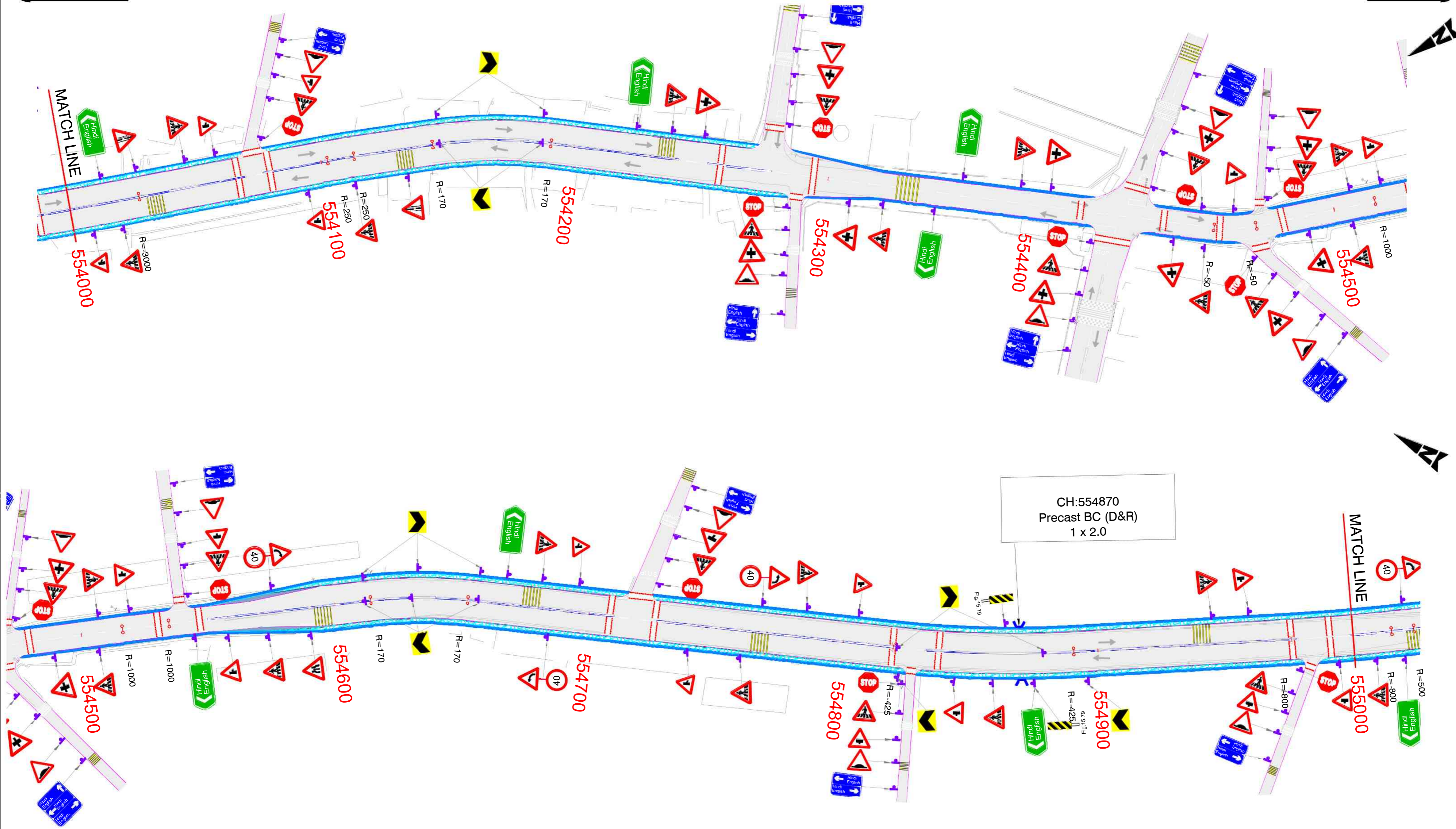
TITLE :

SIGNAGE PLAN
FROM KM. 553+000 TO KM. 554+000

DRG. NO. AA / 2667 / GOA / SP / 09

PATRADEVI ←

→ POLLEM



DESIGNED BY <i>G.Krishna</i> G.KRISHNA	DRAWN BY <i>P.Satish</i> P.SATISH	CHECKED BY <i>P.Srinivas Rao</i> P.SRINIVAS RAO	APPROVED BY <i>S.S.Reddy</i> S.S.REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	Median	
Median	Carriageway	
Footpath Cum Drain	Footpath	
Footpath/Saucer Drain	Saucer Drain	
Parking Hatch	Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

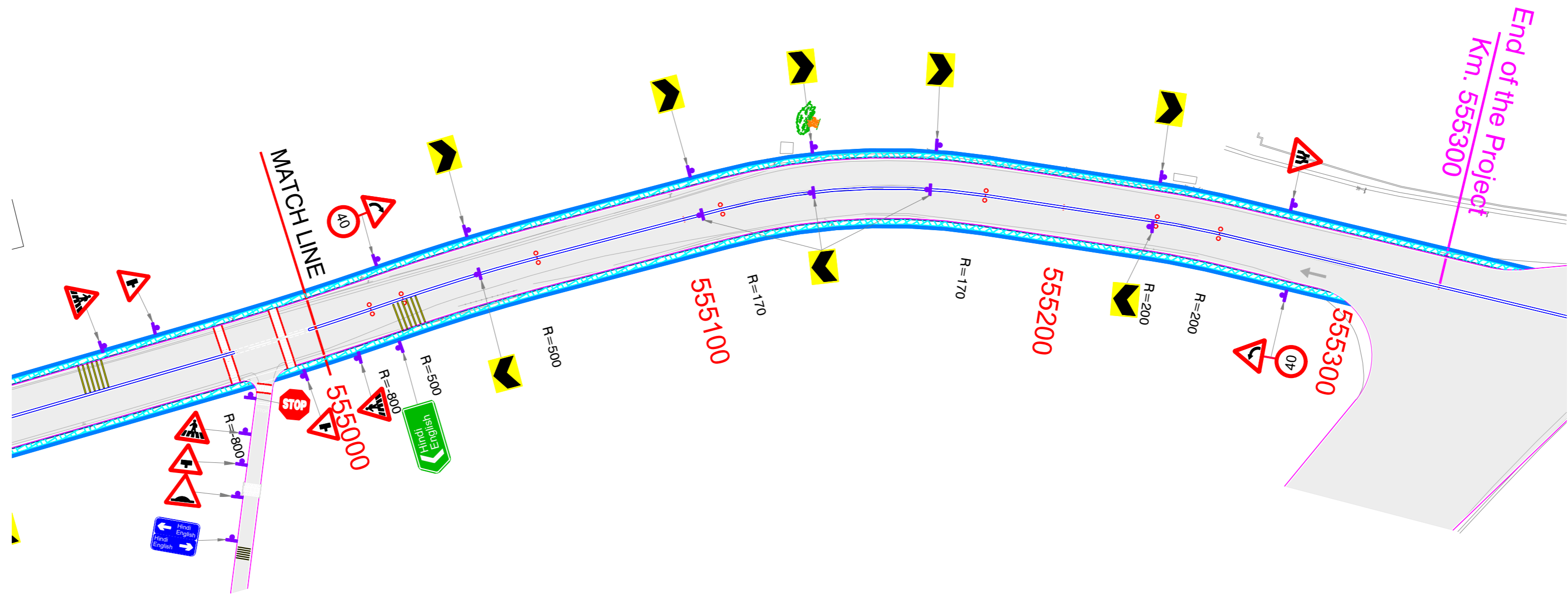
TITLE :

SIGNAGE PLAN
FROM KM. 554+000 TO KM. 555+000

DRG. NO. AA / 2667 / GOA / SP / 10

PATRADEVI ←

→ POLLEM



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
				APR - 2026
G.KRISHNA	P.SATISH	P.SRINIVAS RAO	S.S.REDDY	

REVISION NO.	DATE	DESCRIPTION	REVISED BY
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT	
R0	FEB - 2026	INITIAL SUBMISSION	

LEGEND:

Proposed CL	
Median	
Carriageway	
Footpath Cum Drain	
Footpath	
Saucer Drain	
Parking Hatch	
Earthen Shoulder	

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



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PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

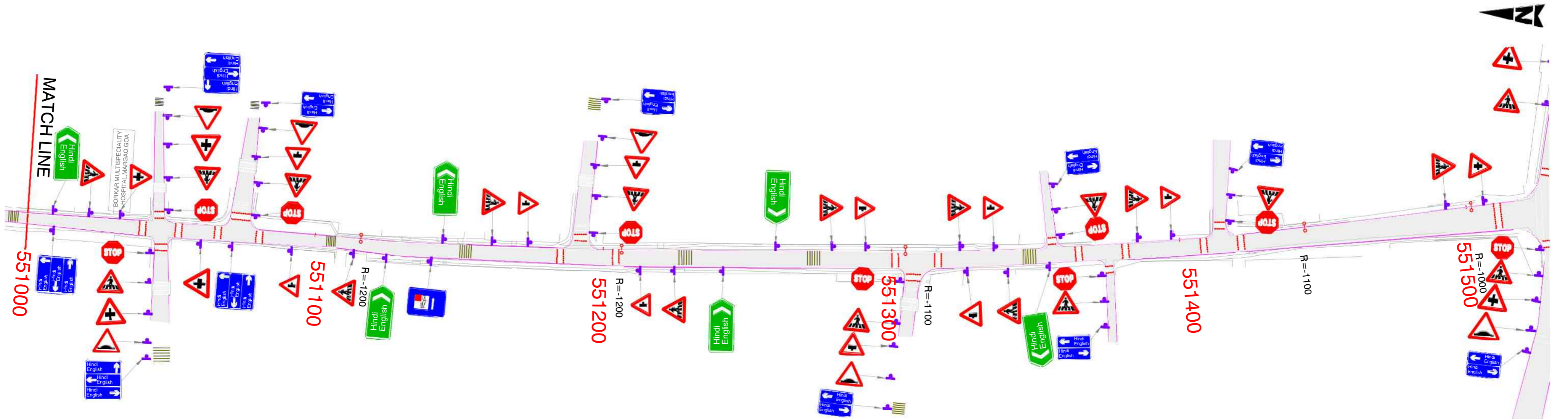
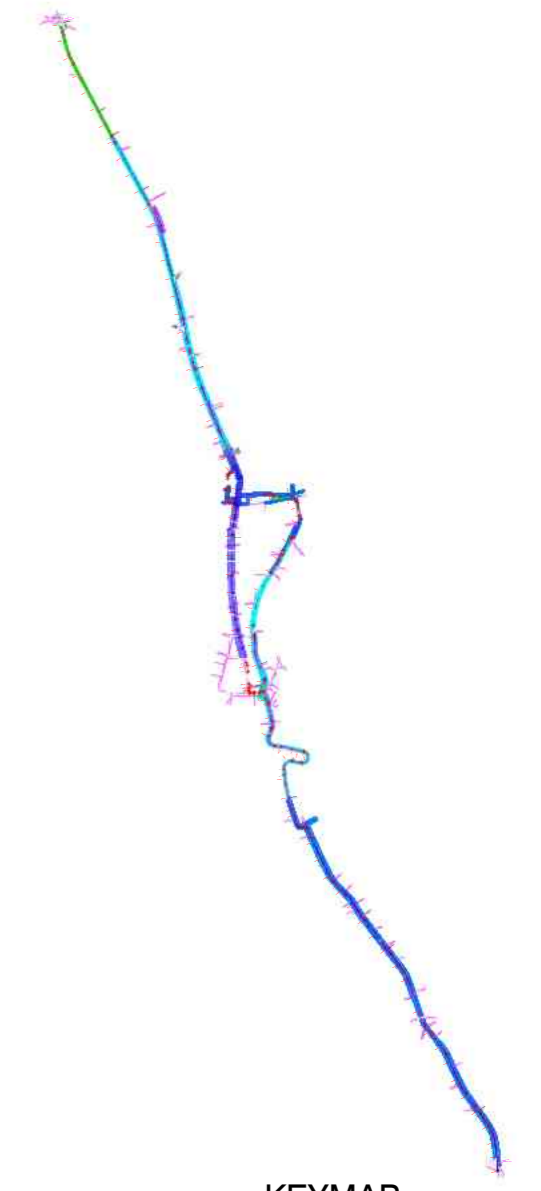
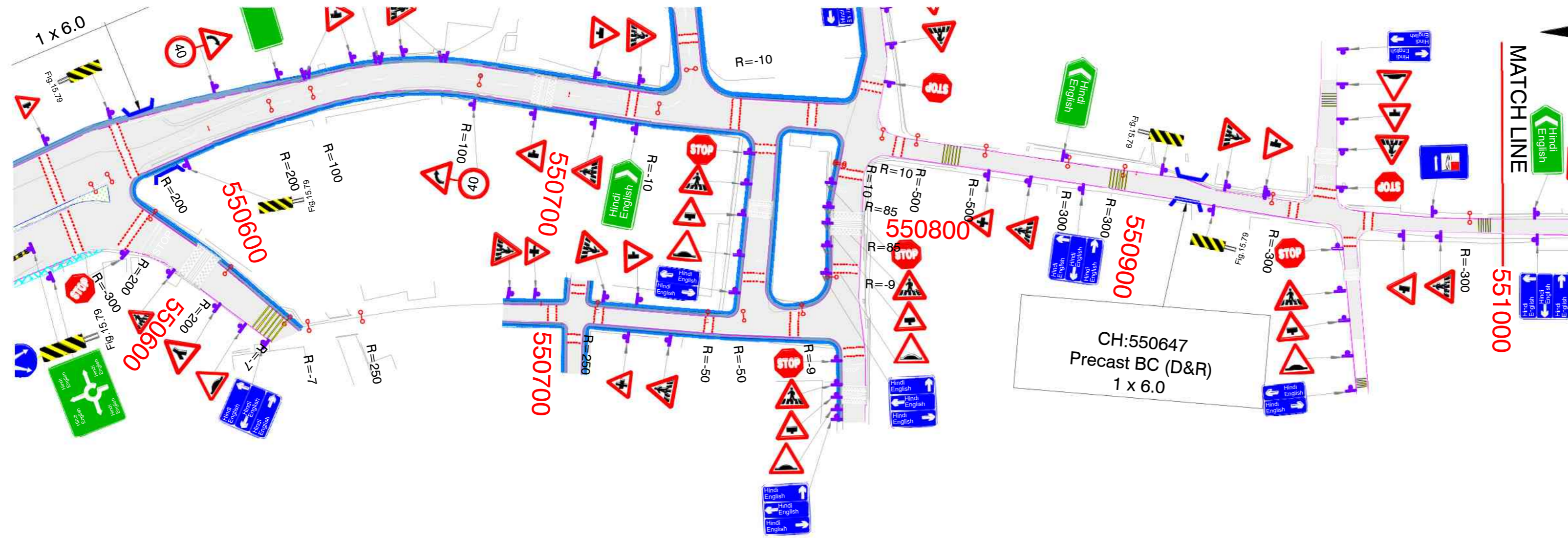
TITLE :

SIGNAGE PLAN
FROM KM. 555+000 TO KM. 555+300

DRG. NO. AA / 2667 / GOA / SP / 11

PATRADEVI

POLLEM



DESIGNED BY G.KRISHNA	DRAWN BY P.SATISH	CHECKED BY P.SRINIVAS RAO	APPROVED BY S.S.REDDY	DATE APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	Median
Carriageway	Footpath Cum Drain
Footpath	Saucer Drain
Parking Hatch	Earthen Shoulder

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

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 e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

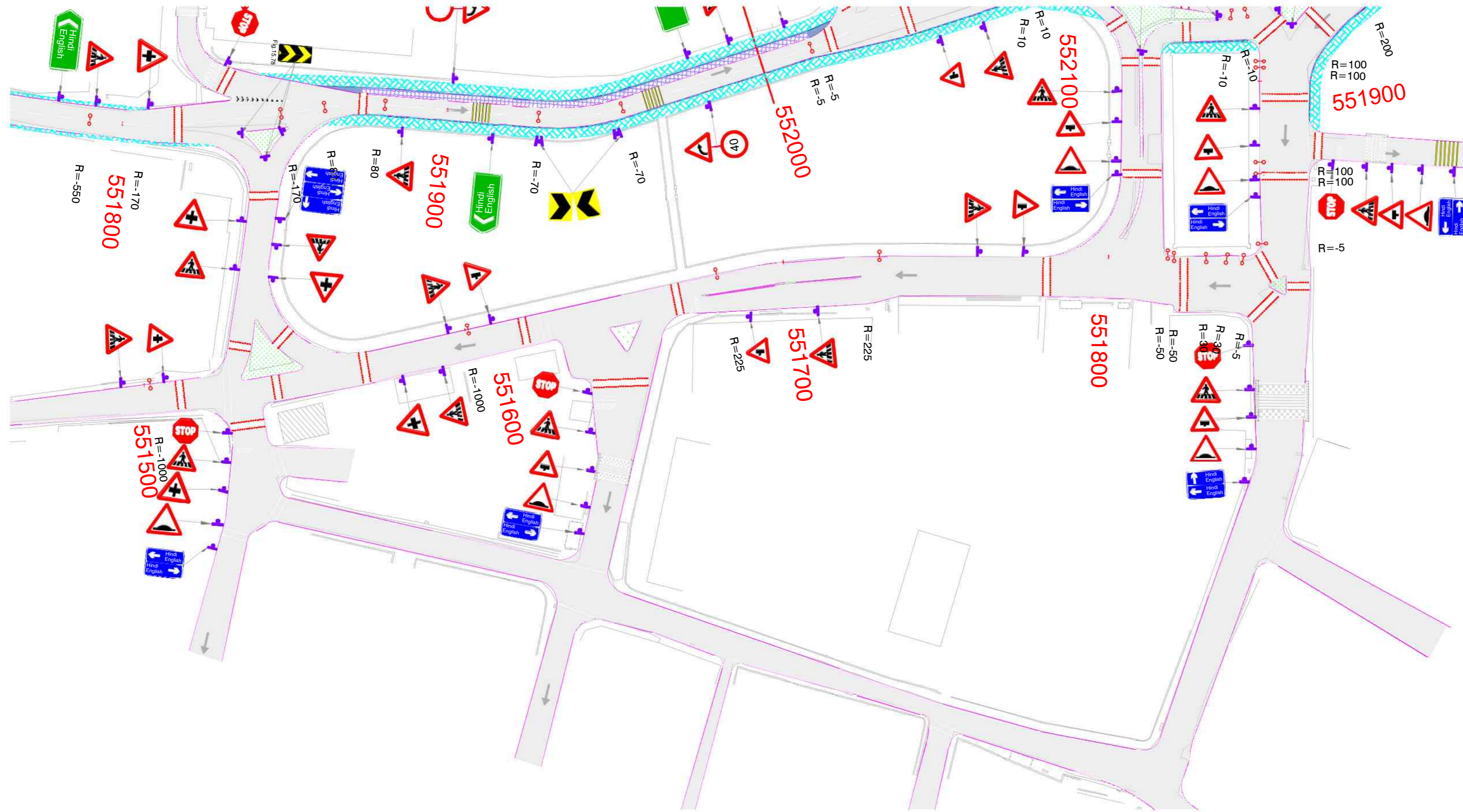
TITLE :

SIGNAGE PLAN
FROM KM. 550+600 TO KM. 551+500 (RHS)

DRG. NO. AA / 2667 / GOA / SP / 12

PATRADEVI ←

→ POLLEM



DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
G.KRISHNA	P.SATISH	P.SRINIVAS RAO	S.S.REDDY	APR - 2026
REVISION NO.	DATE	DESCRIPTION	REVISED BY	
R1	APR - 2026	DRAFT DETAIL PROJECT REPORT		
R0	FEB - 2026	INITIAL SUBMISSION		

LEGEND:

Proposed CL	Median
Median	Carriageway
Footpath Cum Drain	Footpath
FootpathSaucer Drain	Saucer Drain
Parking Hatch	Earthen Shoulder

NOT TO SCALE

SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING



CONSULTANT :

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 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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 e-mail: aarvee@aarvee.net; web: www.aarvee.com

PROJECT :

ONE TIME IMPROVEMENT FROM Km. 548.000 TO Km. 555.300 ON NH-66 IN THE STATE OF GOA

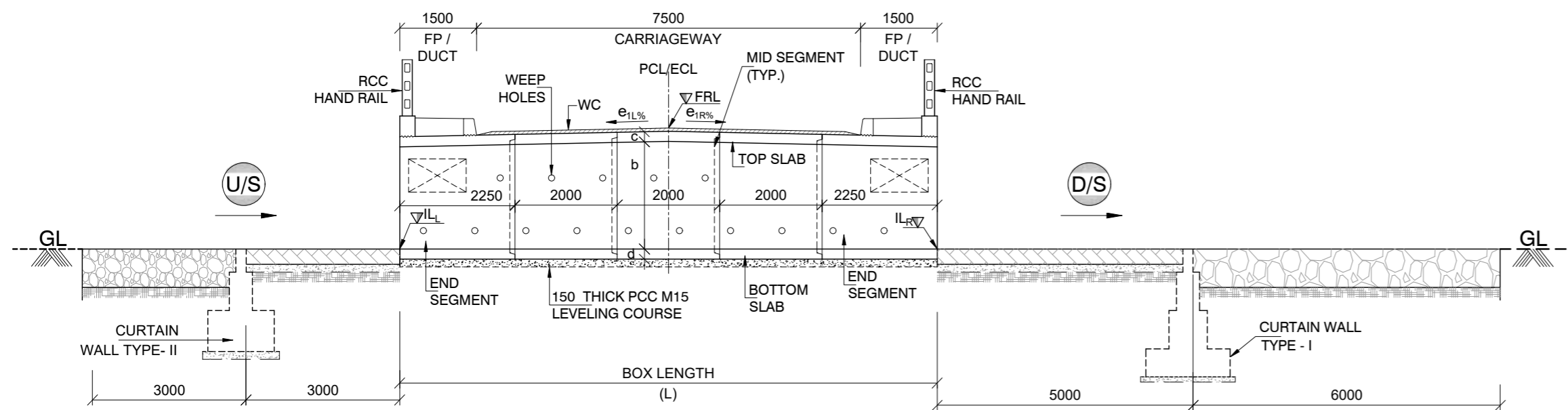
TITLE :

SIGNAGE PLAN
 FROM KM. 551+500 TO KM. 551+800 (RHS)

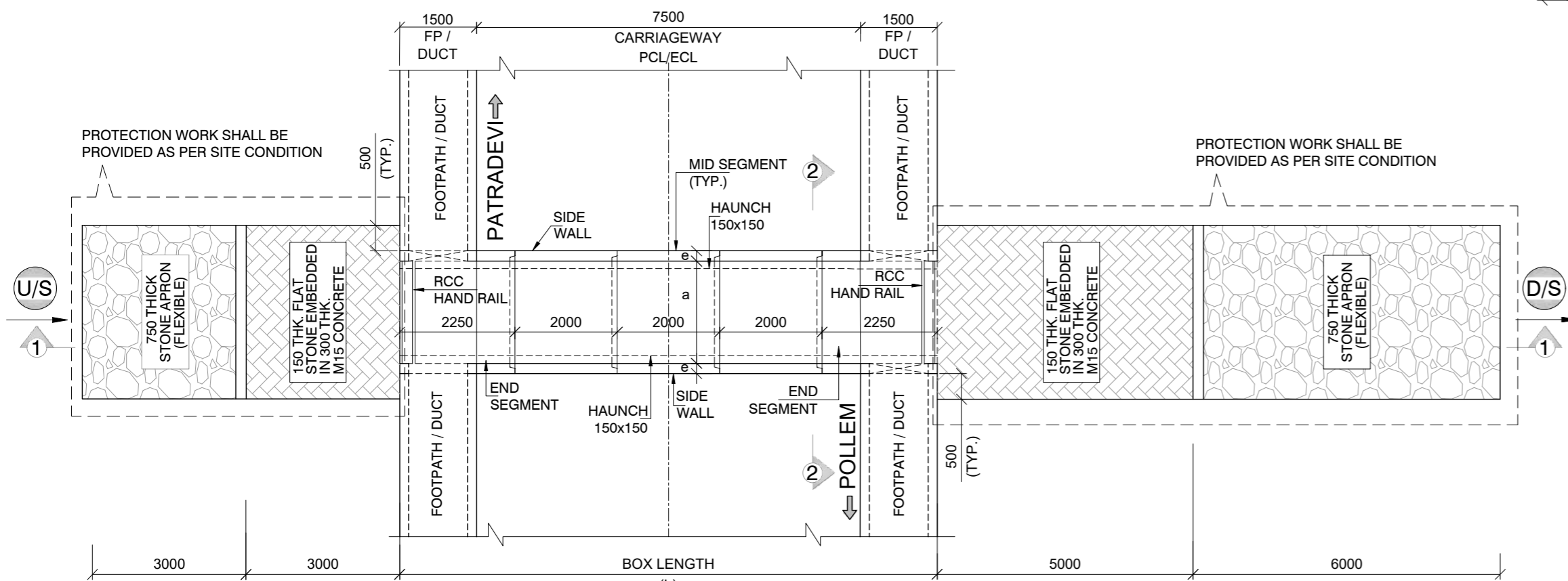
DRG. NO. AA / 2667 / GOA / SP / 13

STRUCTURAL DRAWINGS

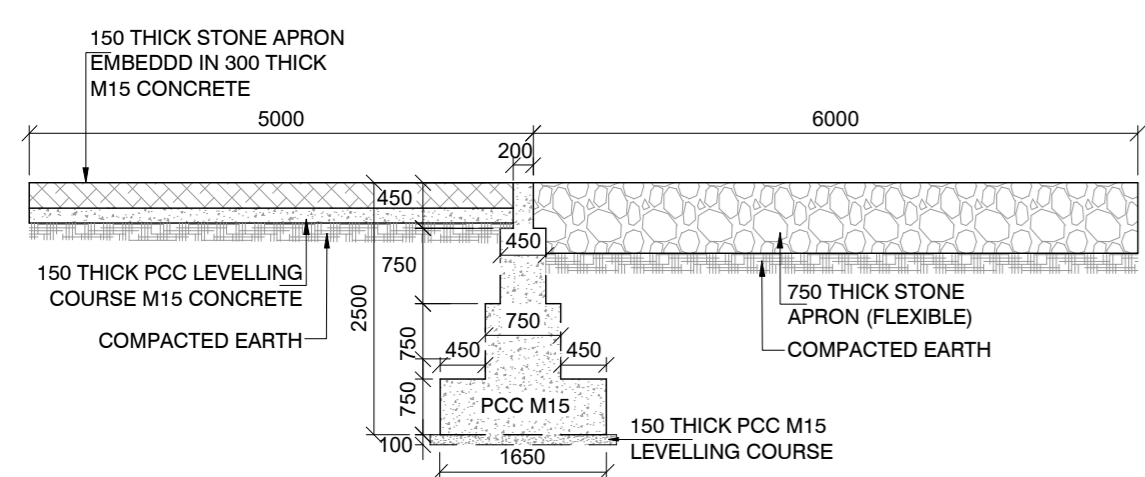
BOX CULVERT



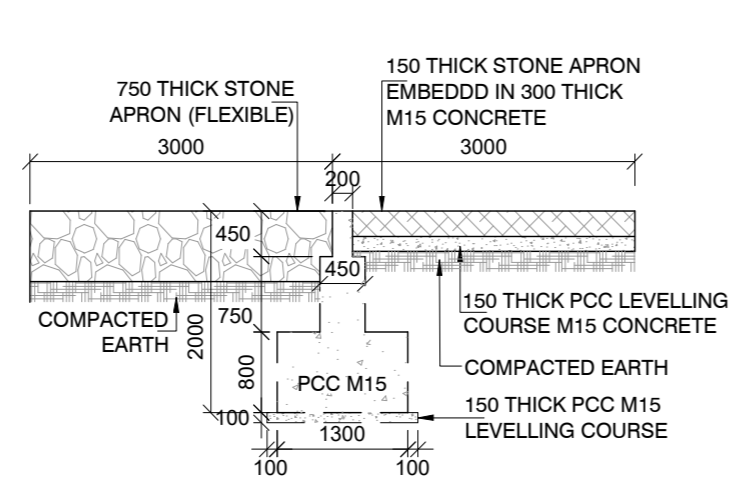
LONGITUDINAL SECTION 1-1
(SCALE 1:200)



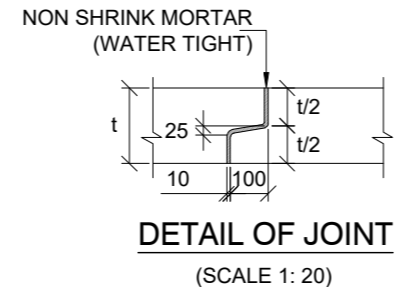
PLAN AT DRAIN LEVEL
(SCALE 1:100)



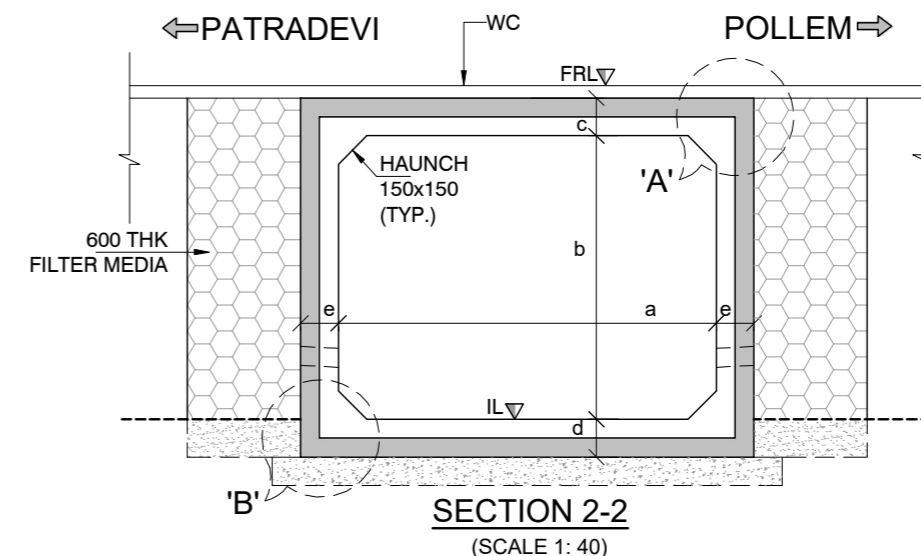
TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-I (ON D/S)
(SCALE 1:75)



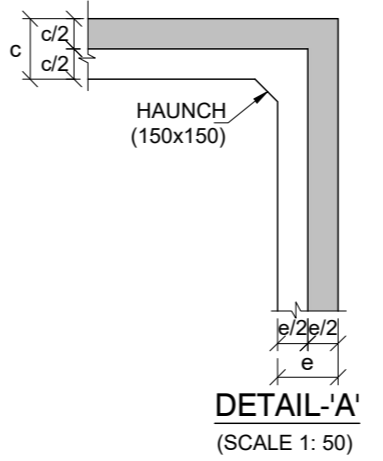
TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-II (ON U/S)
(SCALE 1:75)



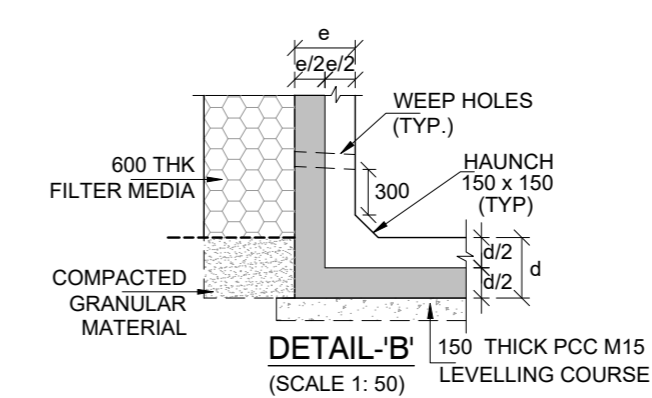
DETAIL OF JOINT
(SCALE 1:20)



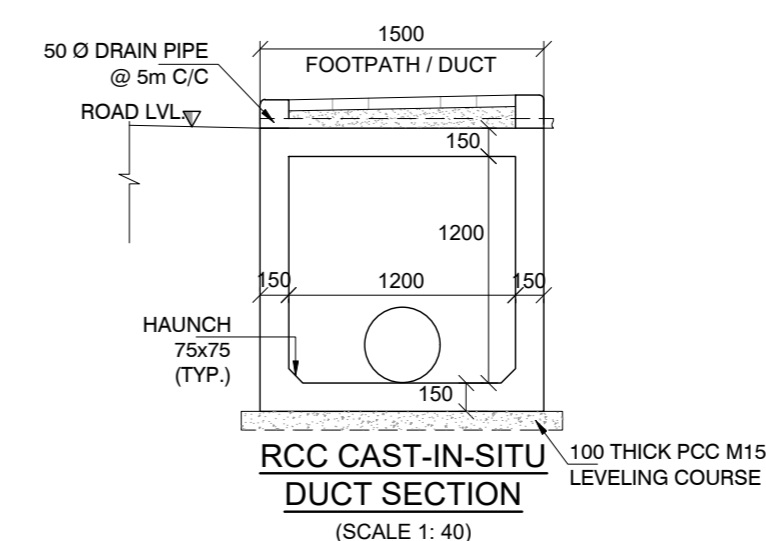
SECTION 2-2
(SCALE 1:40)



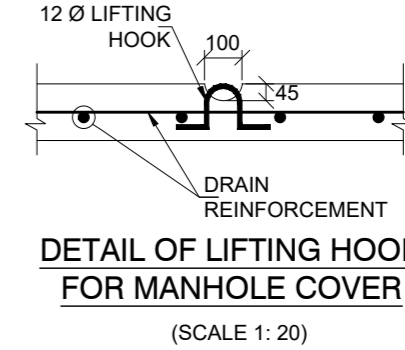
DETAIL-A'
(SCALE 1:50)



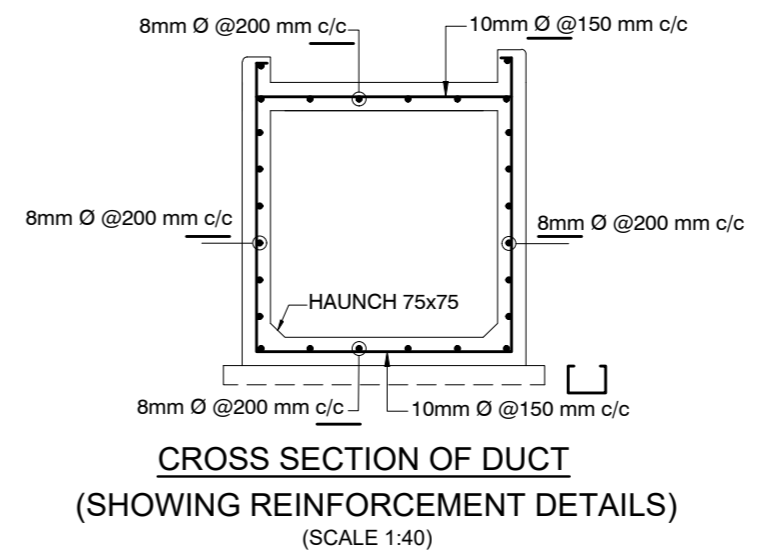
DETAIL-B'
(SCALE 1:50)



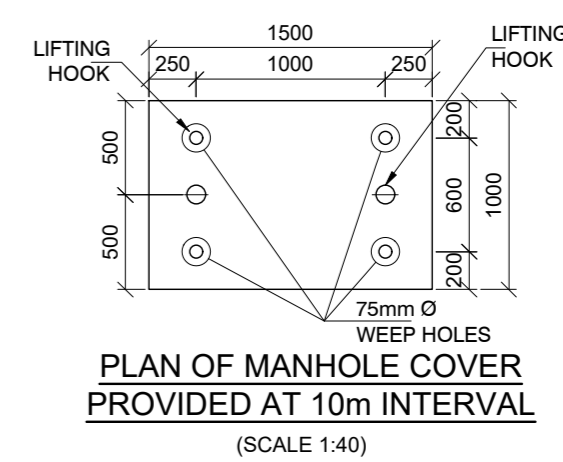
RCC CAST-IN-SITU DUCT SECTION
(SCALE 1:40)



DETAIL OF LIFTING HOOK FOR MANHOLE COVER
(SCALE 1:20)



CROSS SECTION OF DUCT (SHOWING REINFORCEMENT DETAILS)
(SCALE 1:40)



PLAN OF MANHOLE COVER PROVIDED AT 10m INTERVAL
(SCALE 1:40)

NOTES :

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- GRADE OF CONCRETE SHALL BE AS FOLLOWS :-
 LEVELLING COURSE ----- M15
 PRECAST BOX CELL ----- M30
 DRAIN / UTILITY BOX ----- M25
- MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE AS FOLLOWS :-
 NON EARTH FACE ----- 45
 EARTH FACE ----- 75
- DESIGN CRITERIA HAS BEEN FROM THE FOLLOWING CODES:
 a) IRC: 78-2014 c) IRC: 112-2020
 b) IRC: 6-2017
- THE REINFORCEMENT SHALL BE BARS OF GRADE DESIGNATION Fe 500 CONFORMING TO LATEST IRC CODES / MORTH CIRCULARS
- BACK FILLING FOR SIDE WALL SHALL CONFORM TO SPECIFICATION GIVEN AT APPENDIX-6 OF IRC : 78.
- THE PROPERTIES OF THE MATERIALS USED FOR BACK FILLING BEHIND SIDE WALL SHALL CONFORM TO THE FOLLOWING:
 $\phi \leq 30^\circ$ & $r_d = 20.0 \text{ kN/m}^3$
- SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300 mm.
- ANY DISCREPANCY NOTED SHOULD BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
- ALL THE LEVELS AND CAMBERS TO BE VERIFIED WITH RESPECT TO PLAN AND PROFILE DRAWINGS BEFORE STARTING UP OF EXECUTION.
- WEEP HOLES OF 100 mm DIA SHALL BE PROVIDED AT 1000 mm C/C BOTH HORIZONTALLY AND VERTICALLY IN A STAGGERED MANNER IN SIDE WALLS OF BOX CELL AND RETAINING WALLS ABOVE 150 mm FROM GL OR LWL WHICHEVER IS HIGHER.
- 600 mm THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SIDE WALLS AS PER IRC : 78
- MANHOLES SHALL BE PROVIDED AT EVERY 10m IN THE TOP SLAB OF UTILITY/DRAIN BOX ALONG THE PROPOSED ALIGNMENT.
- SEGMENTAL BOX PLACING SHOULD START FROM CENTERLINE OF CARRIAGEWAY TOWARDS THE LEFT OR RIGHT SIDE.
- THE BOX CULVERT IS DESIGNED FOR A SAFE BEARING CAPACITY AS MENTIONED IN THE TABLE. THE SAME SHALL BE ENSURED BEFORE EXECUTION.
- 20mm EXPANSION GAP SHALL BE PROVIDED FOR EVERY 20m LENGTH OF DRAIN AND TO BE FILLED WITH WATER TIGHT POLY SULPHIDE OR BITUMINOUS MATERIAL.

LEGENDS:

- FRL = FINISHED ROAD LEVEL
- PCL = PROPOSED CENTER LINE
- ECL = EXISTING CENTER LINE
- IL = INVERT LEVEL
- EXP. = EXPANSION
- JT. = JOINT
- t = THICKNESS OF SLAB, WALL
- WC = WEARING COAT
- ▽ = LEVEL
- THK. = THICK
- TYP. = TYPICAL
- STR. = STRUCTURE
- U/S = UP STREAM
- D/S = DOWN STREAM

REV	DESCRIPTION	DATE
R0	INITIAL SUBMISSION	FEB' - 2026

SCALES: AS MENTIONED

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING

CONSULTANTS:



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CLIENT:

DRAWN: KPU

DESIGNED: SIBHI CHELVAN

CHECKED: Y. PRAVEEN

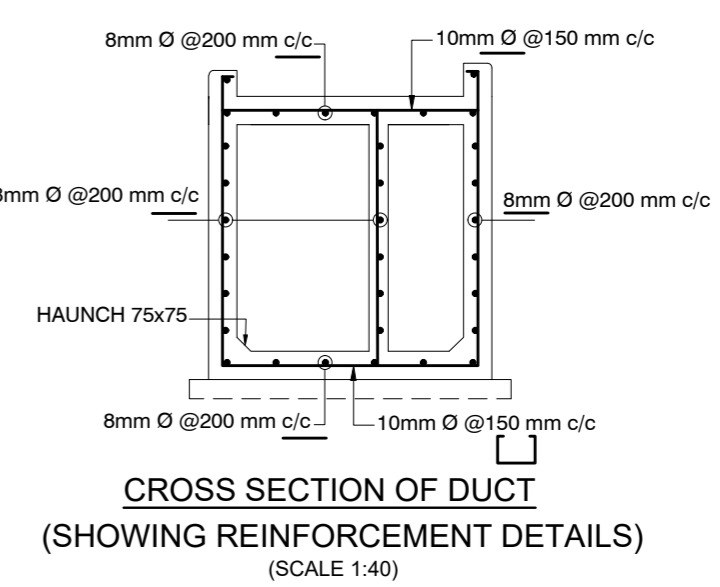
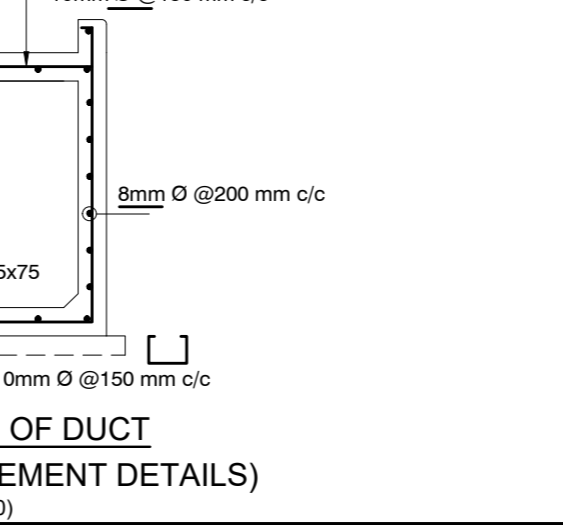
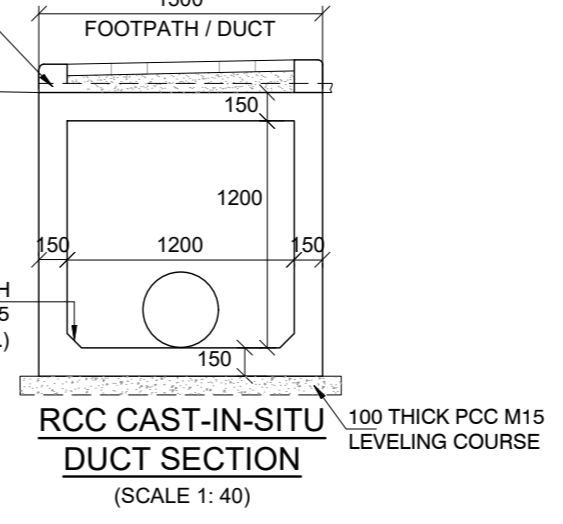
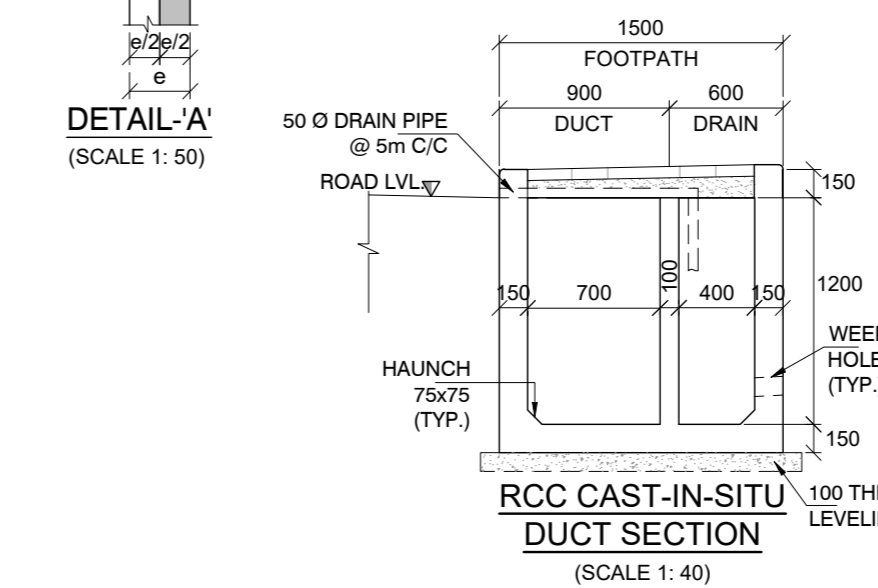
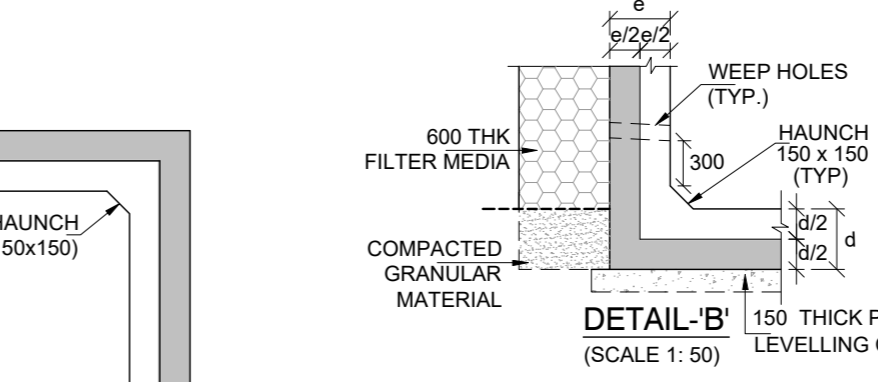
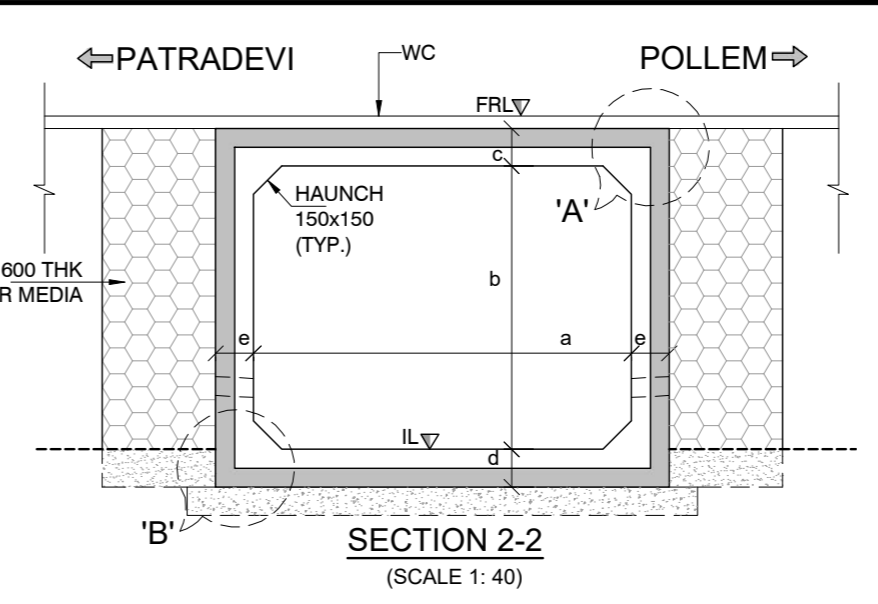
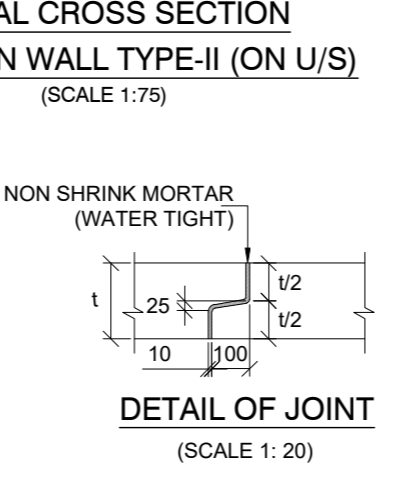
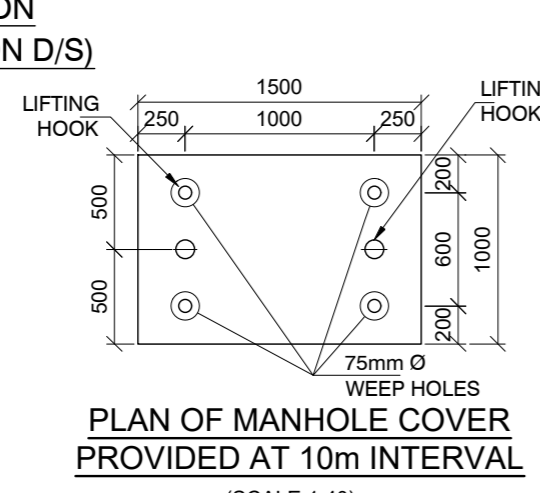
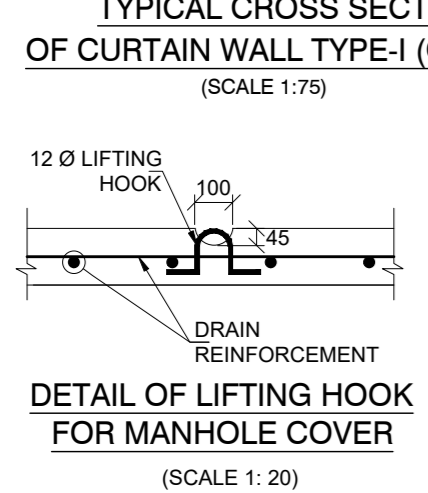
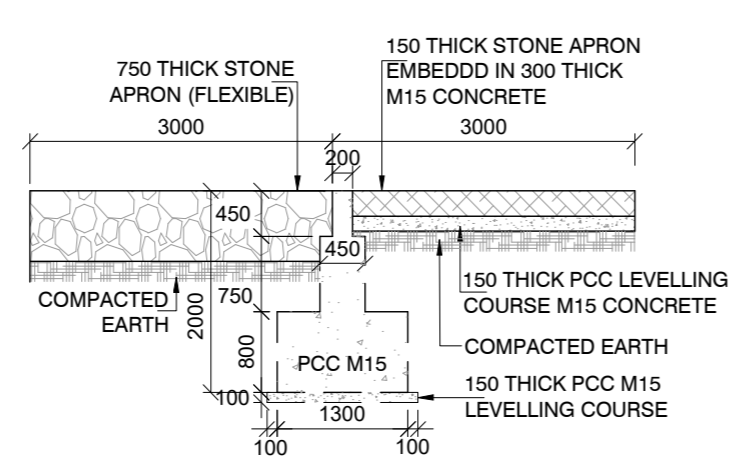
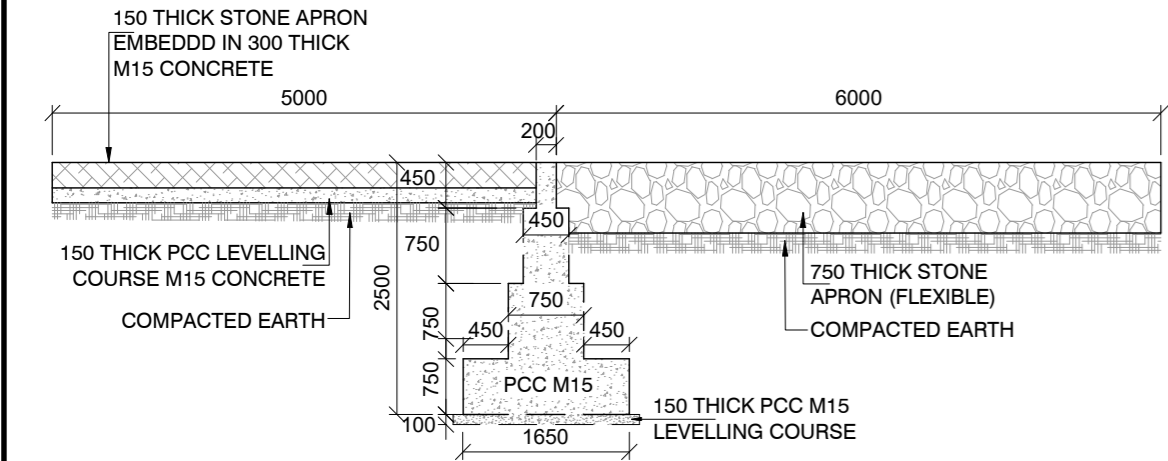
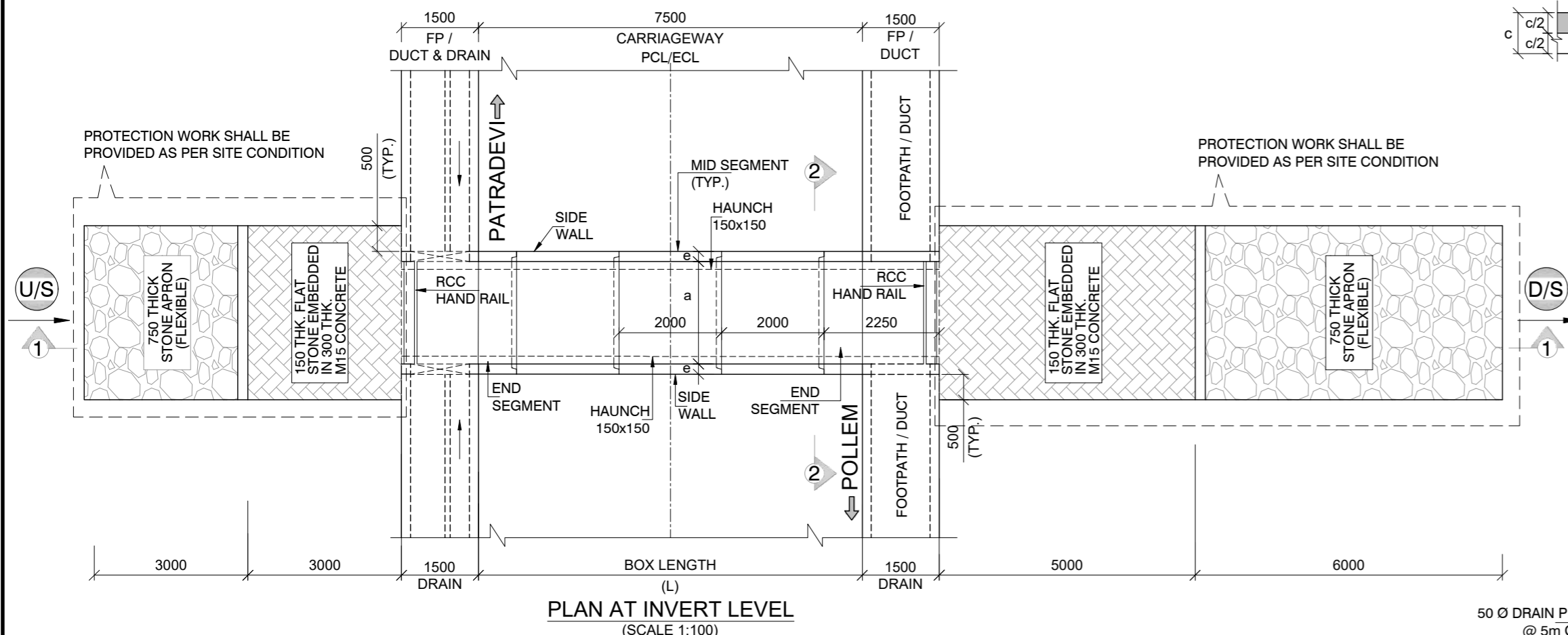
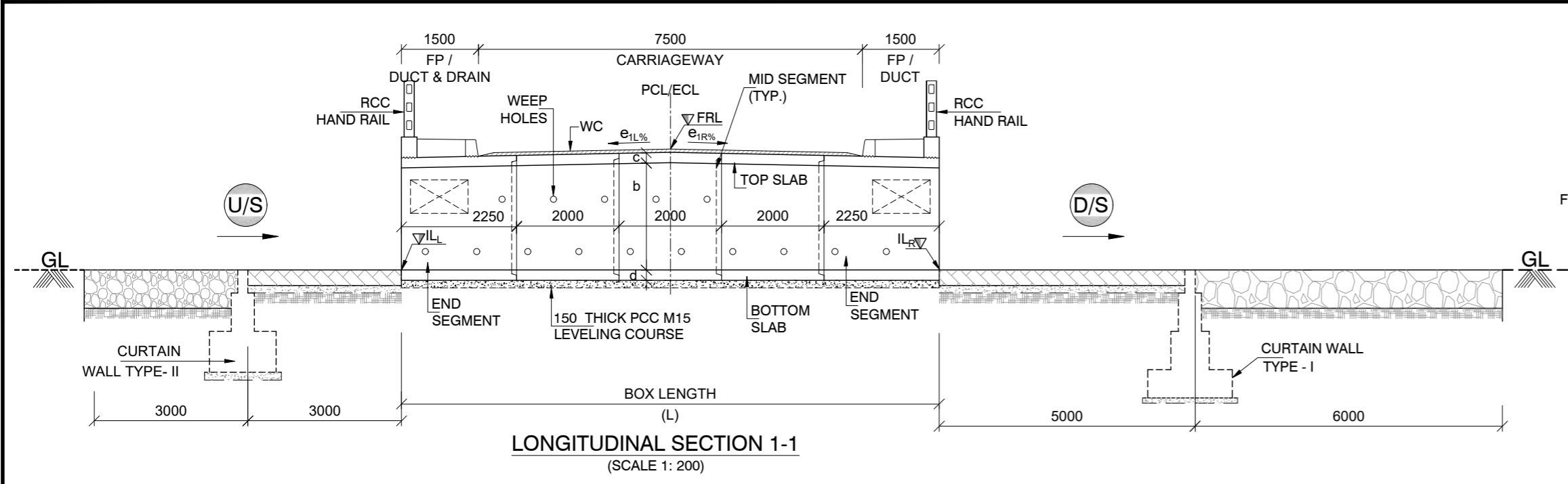
APPROVED: G. PRAVEEN KUMAR

PROJECT: ONE TIME IMPROVEMENT FROM Km: 548.000 TO Km: 555.300 ON NH-66 IN THE STATE OF GOA

DRAWING TITLE: TYPICAL GENERAL ARRANGEMENT DRAWING OF PROPOSED PRECAST BOX CULVERT FOR TCS-I

DRG. NO.: AA/2667/STR/BC/TYP-1/001

SHEET NO: 1 OF 5



- NOTES :**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES, UNLESS OTHERWISE SPECIFIED.
 - DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - GRADE OF CONCRETE SHALL BE AS FOLLOWS :-
 LEVelling COURSE ----- M15
 PRECAST BOX CELL ----- M30
 DRAIN / UTILITY BOX ----- M25
 - MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE AS FOLLOWS :-
 NON EARTH FACE ----- 45
 EARTH FACE ----- 75
 - DESIGN CRITERIA HAS BEEN FROM THE FOLLOWING CODES:
 a) IRC: 78-2014 c) IRC: 112-2020
 b) IRC: 6-2017
 - THE REINFORCEMENT SHALL BE BARS OF GRADE DESIGNATION Fe 500 CONFORMING TO LATEST IRC CODES / MORTH CIRCULARS
 - BACK FILLING FOR SIDE WALL SHALL CONFORM TO SPECIFICATION GIVEN AT APPENDIX-6 OF IRC : 78.
 - THE PROPERTIES OF THE MATERIALS USED FOR BACK FILLING BEHIND SIDE WALL SHALL CONFORM TO THE FOLLOWING:
 $\phi \leq 30^\circ$ & $r_d = 20.0 \text{ kN/m}^3$
 - SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300 mm.
 - ANY DISCREPANCY NOTED SHOULD BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
 - ALL THE LEVELS AND CAMBERS TO BE VERIFIED WITH RESPECT TO PLAN AND PROFILE DRAWINGS BEFORE STARTING UP OF EXECUTION.
 - WEEP HOLES OF 100 mm DIA SHALL BE PROVIDED AT 1000 mm C/C BOTH HORIZONTALLY AND VERTICALLY IN A STAGGERED MANNER IN SIDE WALLS OF BOX CELL AND RETAINING WALLS ABOVE 150 mm FROM GL OR LWL WHICHEVER IS HIGHER.
 - 600 mm THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SIDE WALLS AS PER IRC : 78
 - MANHOLES SHALL BE PROVIDED AT EVERY 10m IN THE TOP SLAB OF UTILITY/DRAIN BOX ALONG THE PROPOSED ALIGNMENT.
 - SEGMENTAL BOX PLACING SHOULD START FROM CENTERLINE OF CARRIAGEWAY TOWARDS THE LEFT OR RIGHT SIDE.
 - THE BOX CULVERT IS DESIGNED FOR A SAFE BEARING CAPACITY AS MENTIONED IN THE TABLE. THE SAME SHALL BE ENSURED BEFORE EXECUTION.
 - 20mm EXPANSION GAP SHALL BE PROVIDED FOR EVERY 20m LENGTH OF DRAIN AND TO BE FILLED WITH WATER TIGHT POLY SULPHIDE OR BITUMINOUS MATERIAL.
 - 0.1x0.5m GRATING IS TO BE PROVIDED FOR DRAIN FLOW FROM LOCAL ROAD WHEREVER NECESSARY.

- LEGENDS:**
- FRL = FINISHED ROAD LEVEL
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 - U/S = UP STREAM
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REV	DESCRIPTION	DATE	SCALES:
R0	INITIAL SUBMISSION	FEB - 2026	AS MENTIONED

SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING

CONSULTANTS:

kaarvee
 aarvee engineering consultants limited
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91-40-23737633; Fax: +91-40-23736277
 e-mail: aarvee@aarvee.net; web: www.aarvee.com



CLIENT:

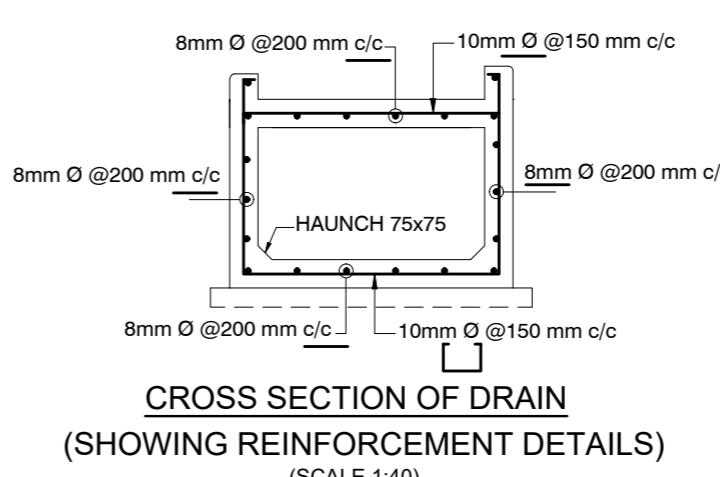
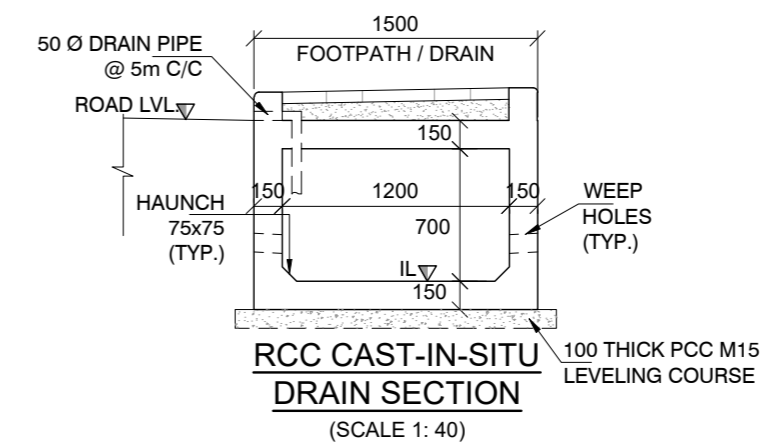
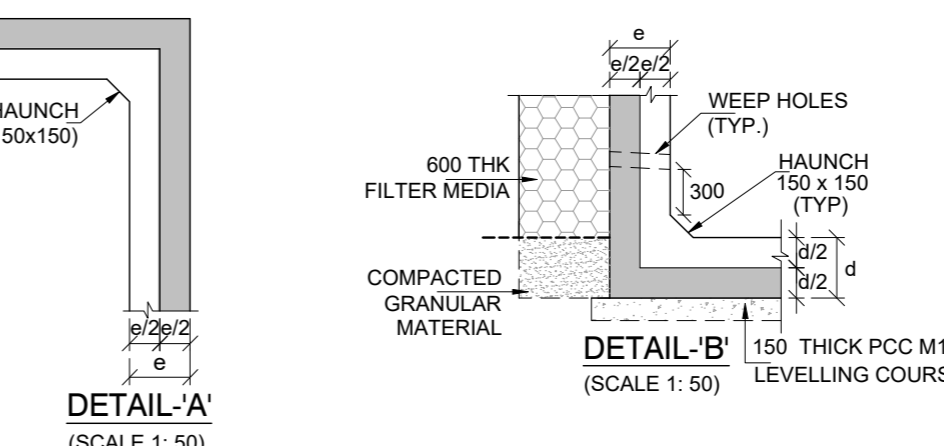
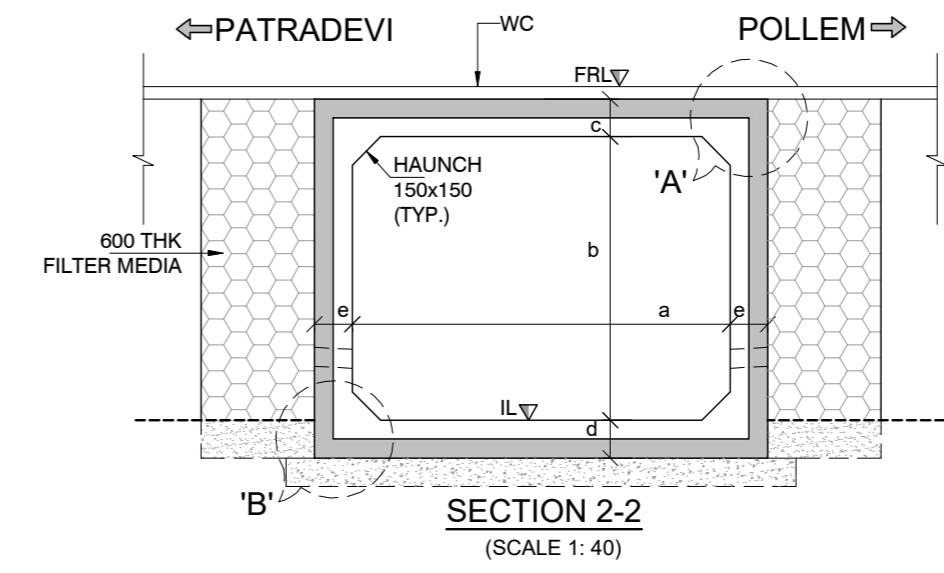
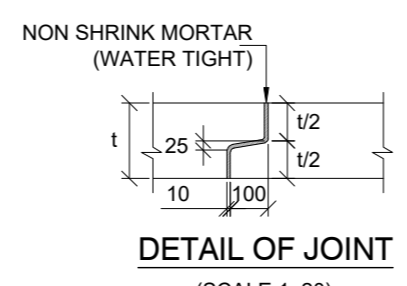
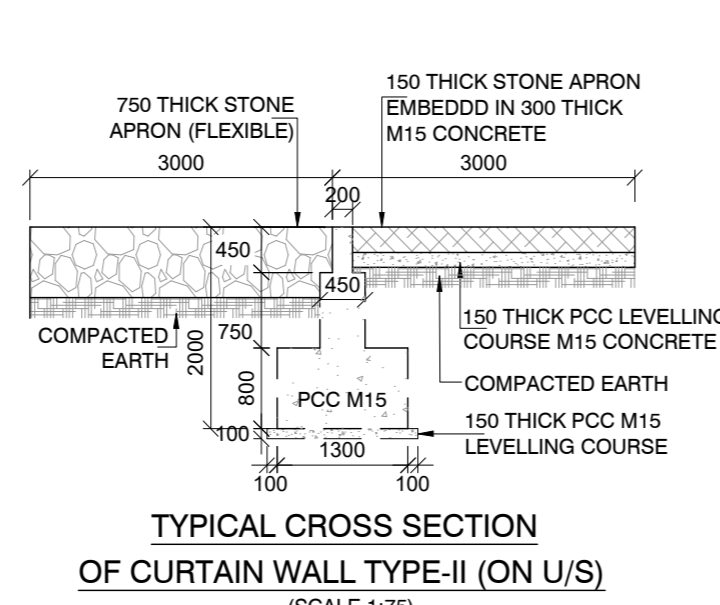
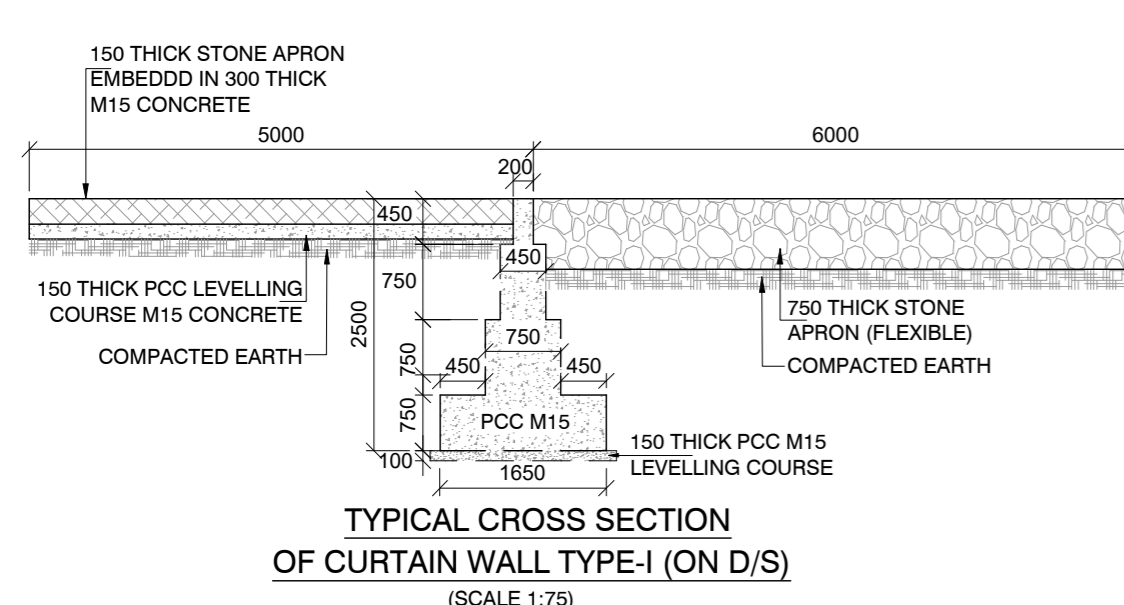
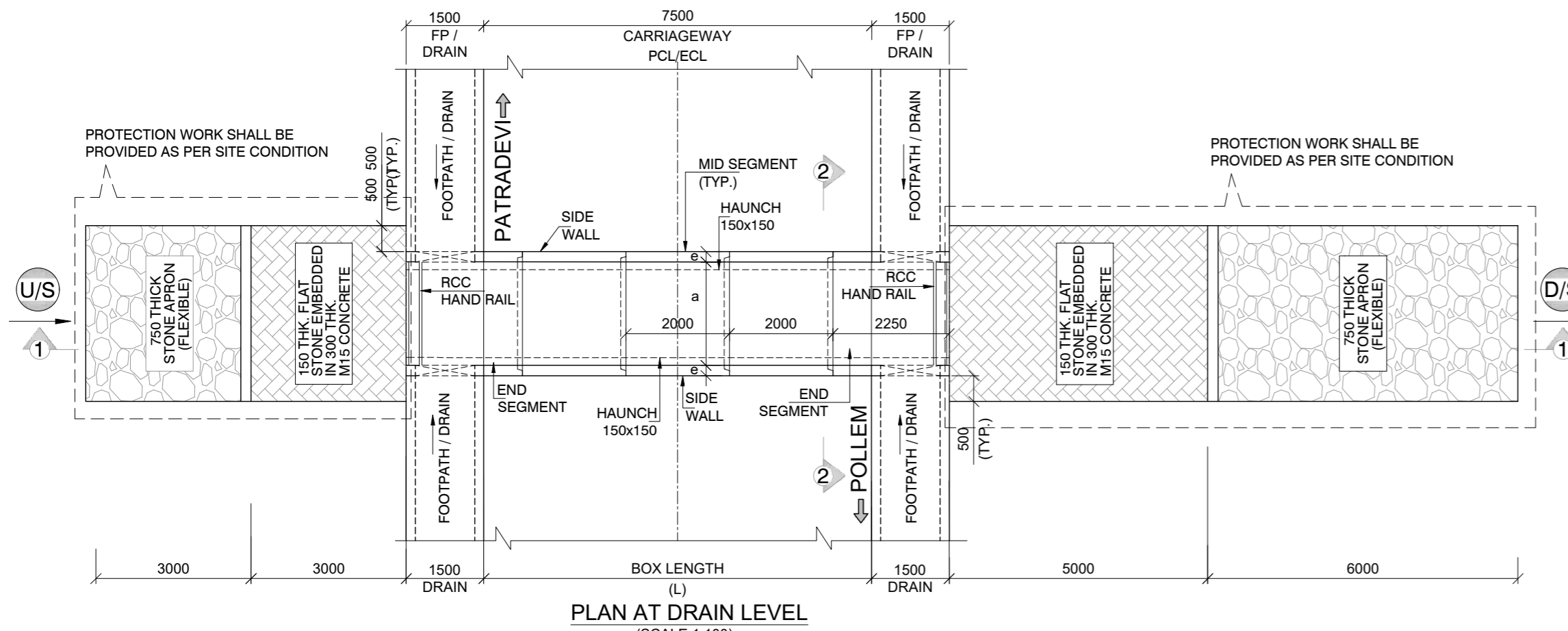
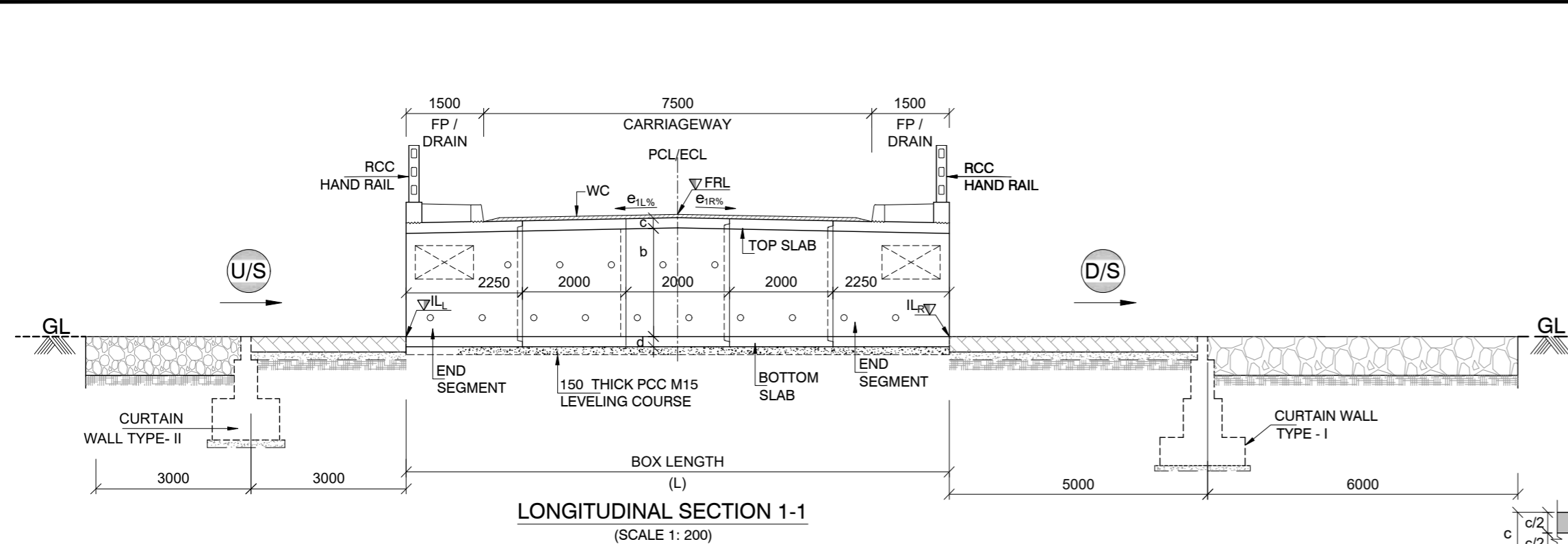
DRAWN: KPU
DESIGNED: SIBHI CHELVAN
CHECKED: Y. PRAVEEN
APPROVED: G. PRAVEEN KUMAR

PROJECT: ONE TIME IMPROVEMENT FROM Km: 548.000 TO Km: 555.300 ON NH-66 IN THE STATE OF GOA

DRAWING TITLE: TYPICAL GENERAL ARRANGEMENT DRAWING OF PROPOSED PRECAST BOX CULVERT FOR TCS-II

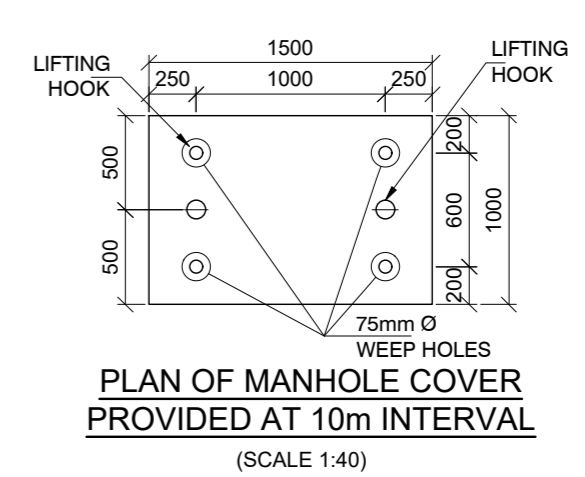
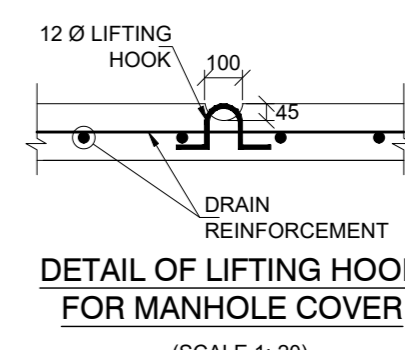
DRG. NO.: AA/2667/STR/BC/TYP-2/001

SHEET NO.: 2 OF 5



- NOTES :**
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REV	DESCRIPTION	DATE	SCALES:	CONSULTANTS:	CLIENT:	DRAWN:	PROJECT:
R0	INITIAL SUBMISSION	FEB' - 2026	AS MENTIONED	aarvee aarvee engineering consultants limited Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91-40-23737633; Fax: +91-40-23736277 e-mail: aarvee@aarvee.net; web: www.aarvee.com		KPU DESIGNED: SIBHI CHELVAN CHECKED: Y. PRAVEEN APPROVED: G. PRAVEEN KUMAR	ONE TIME IMPROVEMENT FROM Km: 548.000 TO Km: 555.300 ON NH-66 IN THE STATE OF GOA DRAWING TITLE: TYPICAL GENERAL ARRANGEMENT DRAWING OF PROPOSED PRECAST BOX CULVERT FOR TCS-IV DRG. NO.: AA/2667/STR/BC/TYP-3/001
			SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING				SHEET NO: 3 OF 5

ONE TIME IMPROVEMENT FOR OLD NH 66 ROAD																							
SCHEDULE OF BOX CULVERTS																							
S. No.	Proposed Chainage (Km)	Existing Structure type	Existing structure's span arrangement (m)	TCS	Proposal	Proposed Structure Type	No of span	Span Length [a](m)	Vent Height [b](m)	Top Slab [c](m)	Bottom Slab [d](m)	Side Wall [e](m)	Skew / Normal	FRL (m)	FRL at Left Edge (m)	FRL at Right Edge (m)	Camber (e _l)	Camber (e _r)	Flow Direction	Invert Level (IL _L) (m)	Invert Level (IL _R) (m)	Total Length (L) (m)	Design SBC (t/m ²)
1	548+521	Slab cum Arch Culvert	1 x 6.0	I	Demolish and reconstruction	Precast Box culvert	1.0	6.0	3.0	0.400	0.450	0.400	Normal	7.575	7.388	7.388	-2.50%	-2.50%	L to R	3.886	3.875	10.5	12.0
2	548+670	Slab culvert	1 x 2.0	II	Demolish and reconstruction	Precast Box culvert	1.0	2.0	2.0	0.250	0.300	0.250	Normal	7.276	7.089	7.089	-2.50%	-2.50%	L to R	4.737	4.726	10.5	10.0
3	549+085	Slab culvert	1 x 4.0	II	Demolish and reconstruction	Precast Box culvert	1.0	4.0	2.0	0.300	0.350	0.300	Normal	7.999	7.812	7.812	-2.50%	-2.50%	L to R	5.410	5.399	10.5	10.0
4	550+585	Slab culvert	1 x 6.0	IV	Demolish and reconstruction	Precast Box culvert	1.0	6.0	3.0	0.400	0.450	0.400	Normal	7.584	7.397	7.397	-2.50%	-2.50%	L to R	3.895	3.884	10.5	12.0
5	551+412	Slab culvert	1 x 1.5	IV	Demolish and reconstruction	Precast Box culvert	1.0	2.0	2.0	0.250	0.300	0.250	Normal	17.875	17.688	17.688	-2.50%	-2.50%	L to R	15.336	15.325	10.5	10.0
6	553+865	Slab culvert	1 x 2.0	X	Demolish and reconstruction	Precast Box culvert	1.0	2.0	1.5	0.250	0.300	0.250	Normal	8.195	8.008	8.008	-2.50%	-2.50%	L to R	6.164	6.145	19.0	10.0
7	554+870	Slab culvert	1 x 2.0	X	Demolish and reconstruction	Precast Box culvert	1.0	2.0	1.5	0.250	0.300	0.250	Normal	9.969	9.782	9.782	-2.50%	-2.50%	L to R	7.938	7.919	19.0	10.0

RETAINED EXISTING STRUCTURE WITH REHABILITATION WORKS_OLD NH 66							
S. No.	Proposed Chainage (km)	Existing structure type	Existing structure's Span Arrangement		Type Of Proposal	Proposed TCS	Recommendations
			No. of Rows/ Cell	Span (m)			
1	549+534	Hume pipe culvert	2.0	1.0 dia	Existing Culvert is Retained with Rehabilitation works (as per site requirements)	III	Existing culvert is retained with rehabilitation work as per site condition, such as removing debris / garbage / vegetation, clearing flow obstructing blockages , repairing Protection works - (aprons & curtain walls), pitching work, Safety barriers, painting, etc.,
2	550+472	Box culvert	1.0	3.0		III	
3	553+472	Slab culvert	1.0	6.0		X	

PROPOSAL OF ADDITIONAL CULVERTS ON OLD NH 66														
S. No.	No of proposed additional culverts as per TCS	TCS	Proposal	Proposed Structure Type	No of span	Span Length [a](m)	Vent Height [b](m)	Top Slab [c](m)	Bottom Slab [d](m)	Side Wall [e](m)	Skew / Normal	Proposed Total Length (L) (m)	Design SBC (t/m ²)	Remarks
1	3 nos	IV	New Construction	Precast Box culvert	1.0	2.0	2.0	0.250	0.300	0.250	Normal	10.5	10.0	Balancing Culvert
2	1 nos	XII			1.0	2.0	2.0	0.250	0.300	0.250		7.5		
3	1 nos	XVI			1.0	2.0	2.0	0.250	0.300	0.250		13.0		

REV	DESCRIPTION	DATE	SCALES:	CONSULTANTS:	CLIENT:	DRAWN:	PROJECT:
R0	INITIAL SUBMISSION	FEB' - 2026	AS MENTIONED	 aarvee engineering consultants limited Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91-40-23737633; Fax: +91-40-23736277 e-mail: aarvee@aarvee.net; web: www.aarvee.com		KPU	ONE TIME IMPROVEMENT FROM Km: 548.000 TO Km: 555.300 ON NH-66 IN THE STATE OF GOA
			SCALES SHOWN ARE FOR AN A2 SIZE ORIGINAL DRAWING			DESIGNED:	
						CHECKED:	SCHEDULE OF BOX CULVERTS
						APPROVED:	DRG. NO.: AA/2667/STR/BC/TAB-1/001
						G. PRAVEEN KUMAR	SHEET NO: 5 OF 5