

**TRANSPORT COUNCIL OF LIMA AND CALLAO (CTLC)
MINISTRY OF TRANSPORT AND COMMUNICATION (MTC)**

**FEASIBILITY STUDY ON URBAN TRANSPORTATION
IN THE LIMA AND CALLAO METROPOLITAN AREA
IN THE REPUBLIC OF PERU**

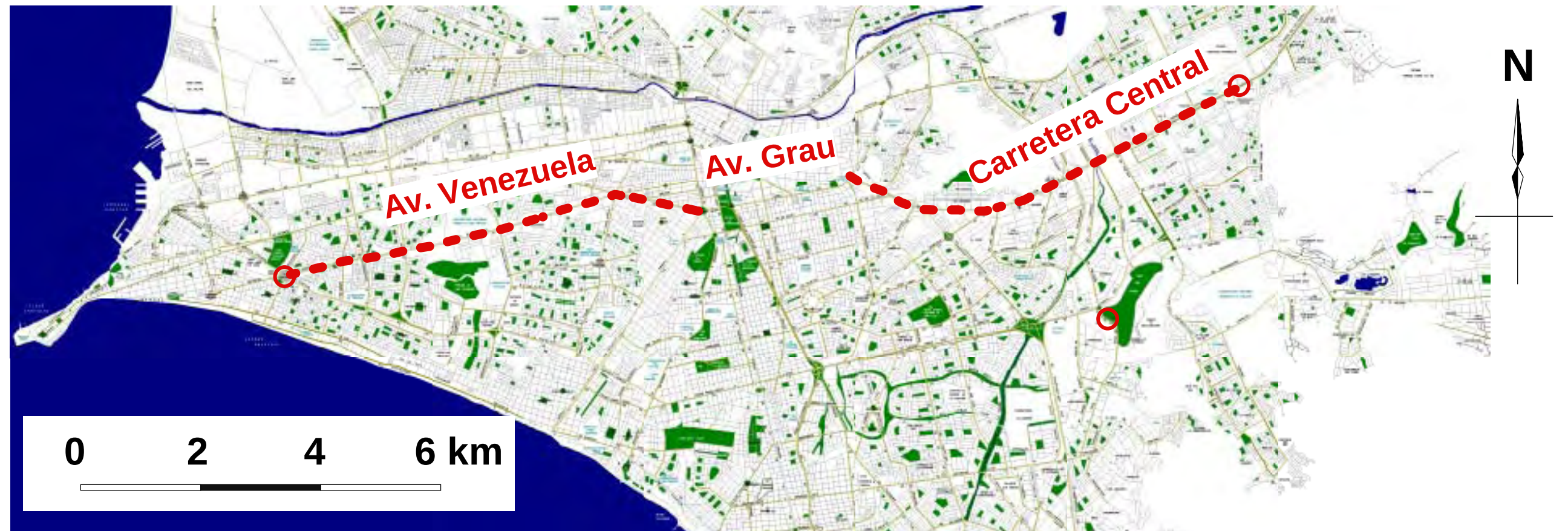
Drawings

March 2007

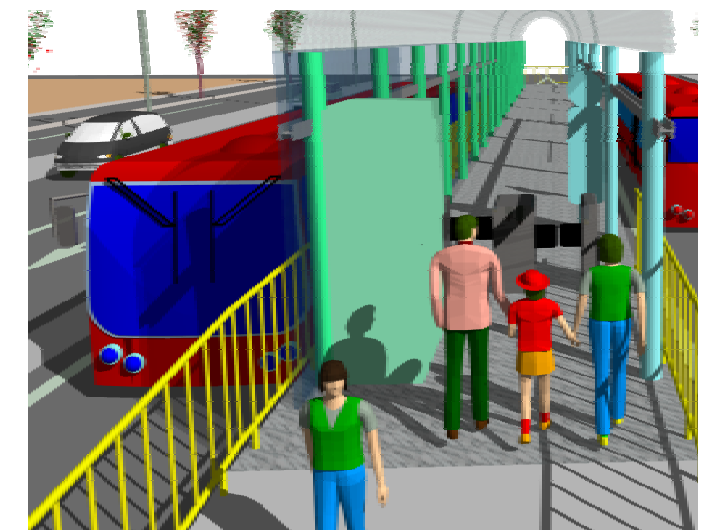
JAPAN INTERNATIONAL COOPERATION AGENCY

Yachiyo Engineering Co., Ltd

Chodai Co., Ltd



Location Map of The Feasibility Study



Trunk Bus Stop

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EXCLUSIVE TRUNK BUSWAY R.O.W.=52.0 m. (TYPE - A)

No. 05



V : Vereda
P.A : Pista Auxiliar
P.P : Pista Principal
E : Estacionamiento
J : Jard\U+00edn
B : Berma
T : Tierra

The diagram illustrates a symmetrical cross-section of a 52m wide urban street. The central feature is a 7m wide Exclusive Trunk Busway, flanked by two 7m wide Arterial Traffic Lanes. On the outer edges are Frontage roads, each 4m wide. The layout includes sidewalks, trees, streetlights, and utility poles. Dimensions for various sections are provided in meters.

Section	Width (m)
Left Sidewalk	2.00
Left Frontage Road	4.00
Left Arterial Traffic Lane	7.00
Left Exclusive Trunk Busway	7.00
Right Exclusive Trunk Busway	7.00
Right Arterial Traffic Lane	7.00
Right Frontage Road	4.00
Right Sidewalk	2.00

Total width: 52.00m

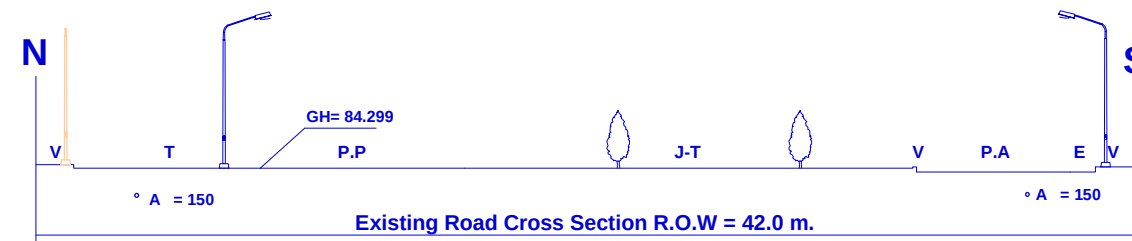
Section	Width (m)
Left Sidewalk	2.00
Left Frontage road	6.00
Left Arterial Traffic Lane	8.00
Left Exclusive Trunk Busway (Left Half)	5.75
Left Exclusive Trunk Busway (Right Half)	5.75
Right Exclusive Trunk Busway (Right Half)	5.75
Right Exclusive Trunk Busway (Left Half)	5.75
Right Arterial Traffic Lane	8.00
Right Frontage road	6.00
Right Sidewalk	2.00
Utility Zone (Left)	2.00
Utility Zone (Right)	2.00
Total	52.00

TYPICAL CROSS SECTION OF TRUNK BUSWAY

EXCLUSIVE TRUNK BUSWAY R.O.W.=42.0 m. (TYPE - B)

0. Existing Road Cross Section

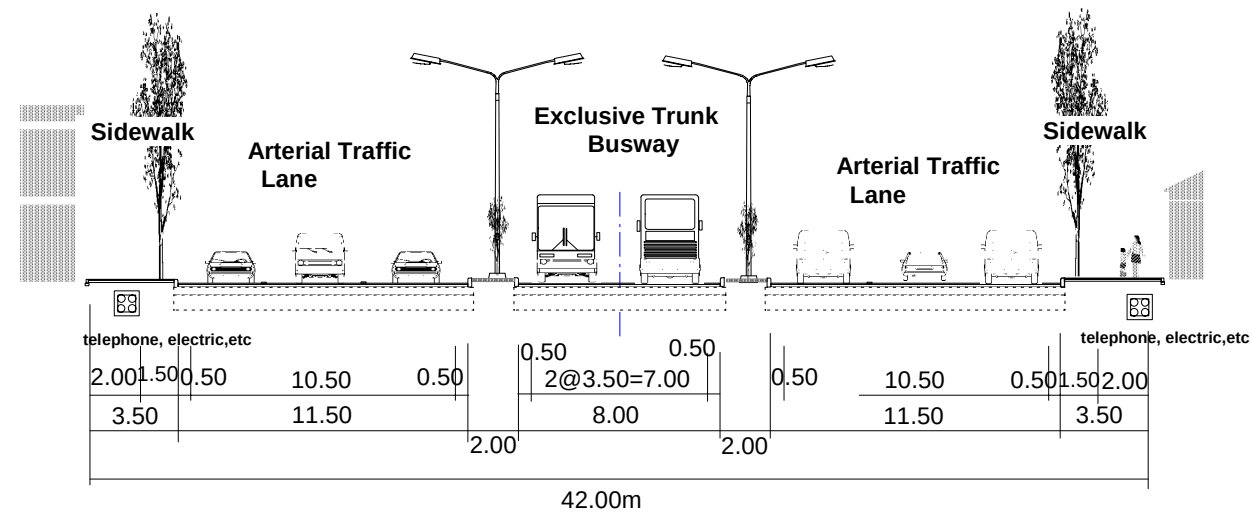
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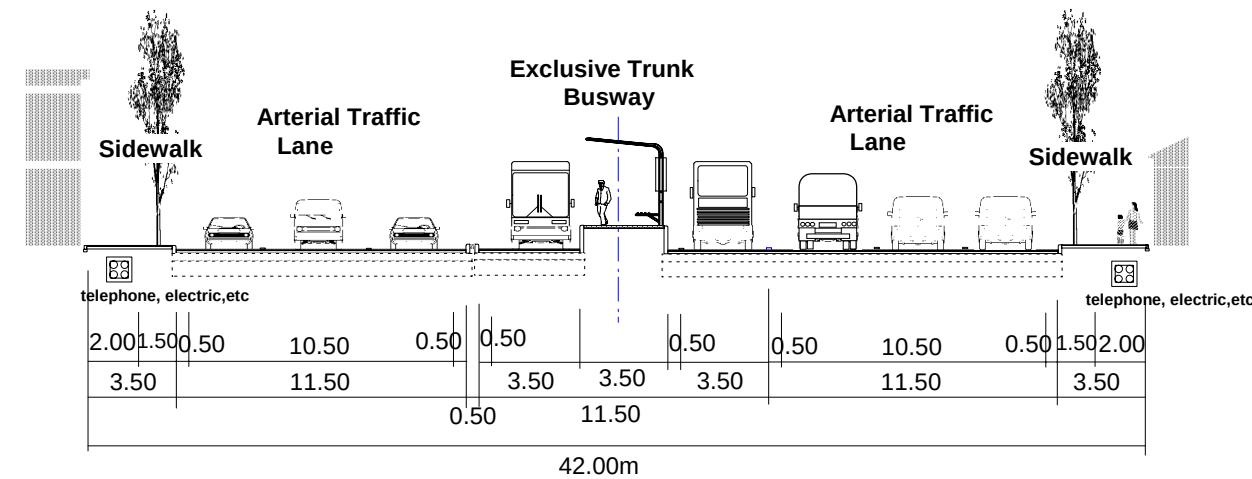
A : Agua
D : Desague
G : Gas

V : Vereda
P.A : Pista Auxiliar
P.P : Pista Principal
E : Estacionamiento
J : Jardín
B : Berma
T : Tierra

1. General Cross Section Proposed



2. Bus Stop Cross Section Proposed

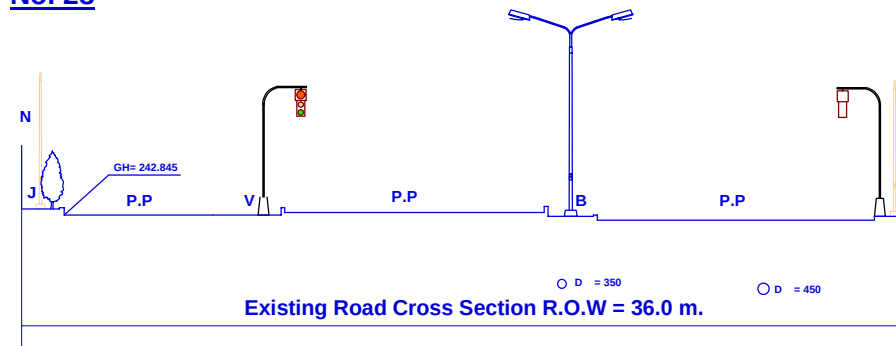


TYPICAL CROSS SECTION OF TRUNK BUSWAY

EXCLUSIVE TRUNK BUSWAY R.O.W.=36 m. (TYPE - C)

0. Existing Road Cross Section

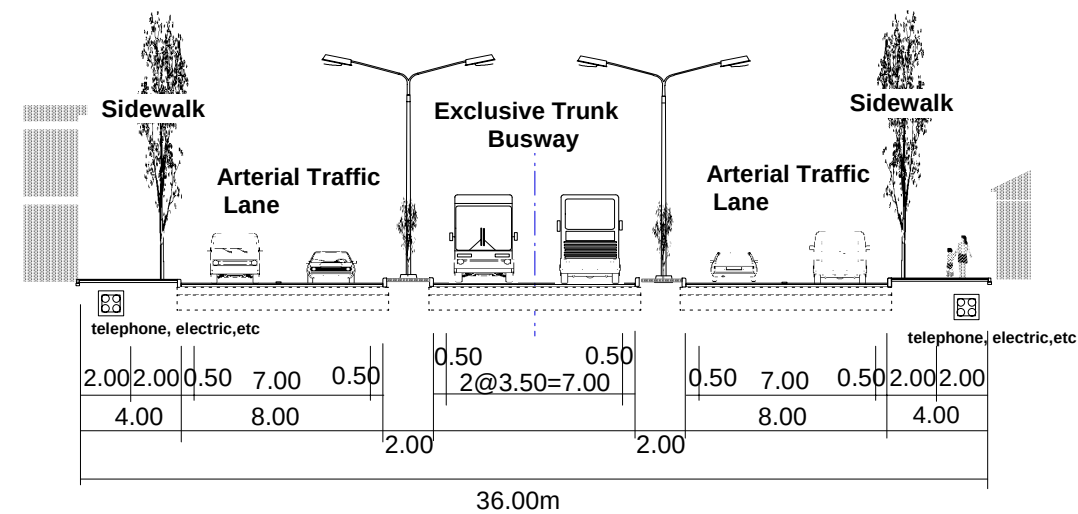
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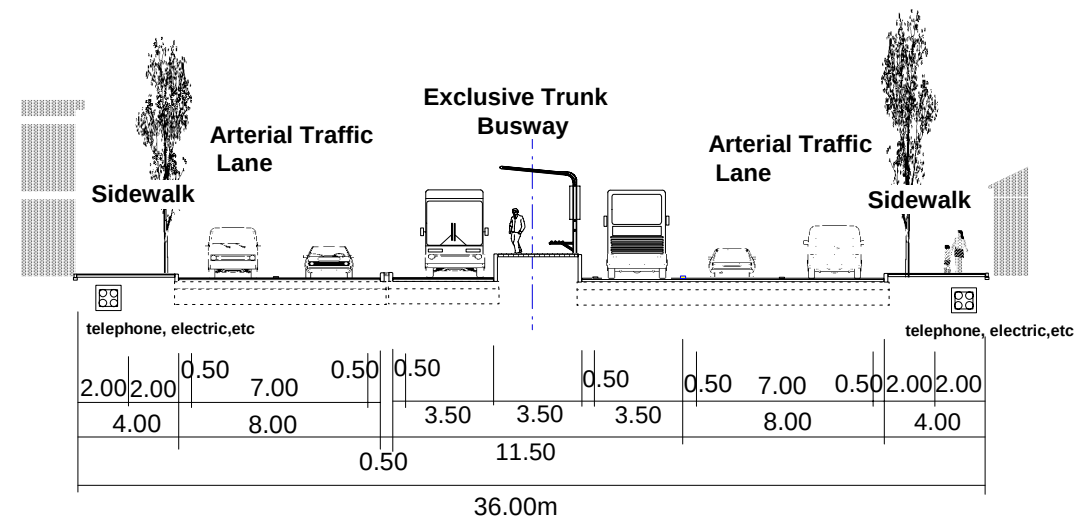
A : Agua
D : Desague
G : Gas

V : Vereda
P.A : Pista Auxiliar
P.P : Pista Principal
E : Estacionamiento
J : Jardín
B : Berma
T : Tierra

1. General Cross Section Proposed



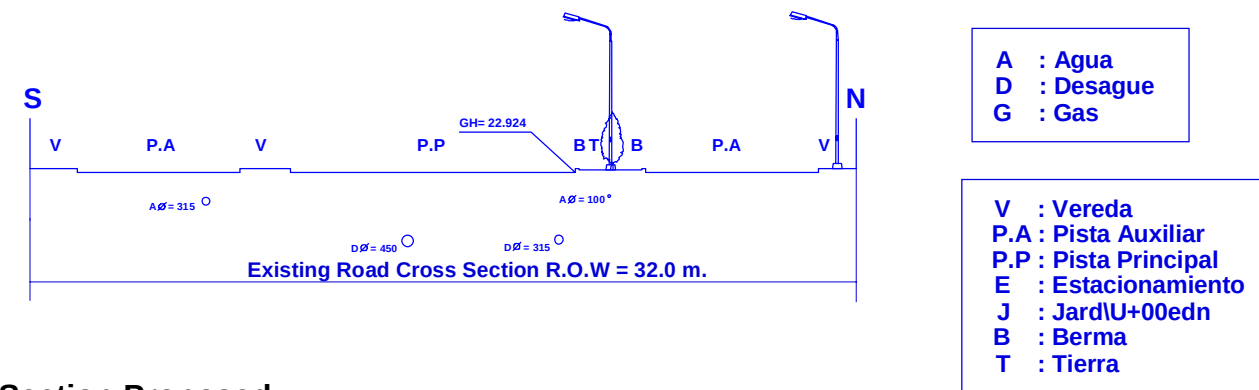
2. Bus Stop Cross Section Proposed



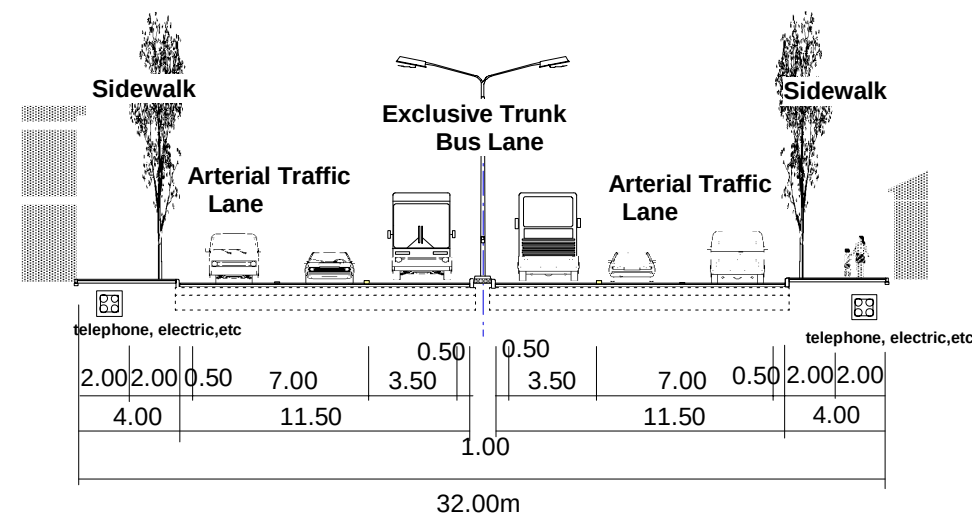
TYPICAL CROSS SECTION OF TRUNK BUSWAY

EXCLUSIVE TRUNK BUSWAY R.O.W.=32.0 m. (TYPE - D)

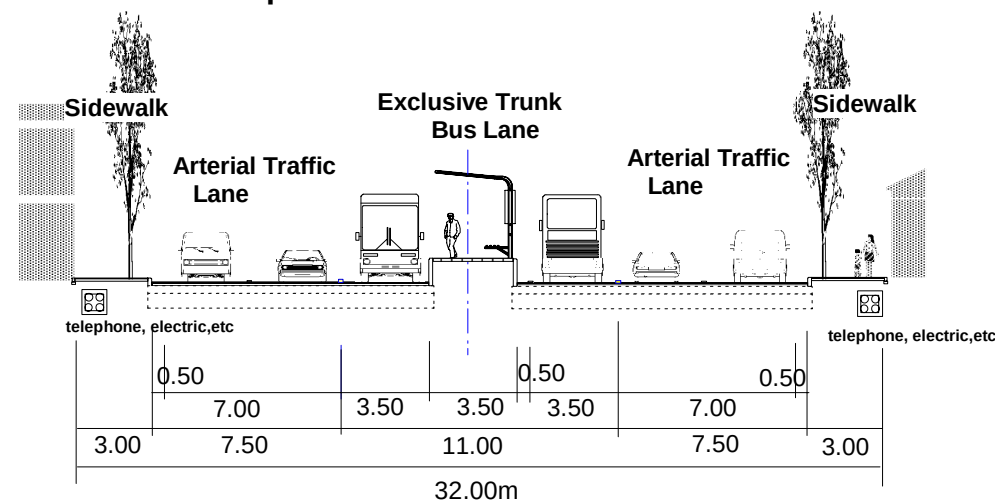
0. Existing Road Cross Section



1. General Cross Section Proposed



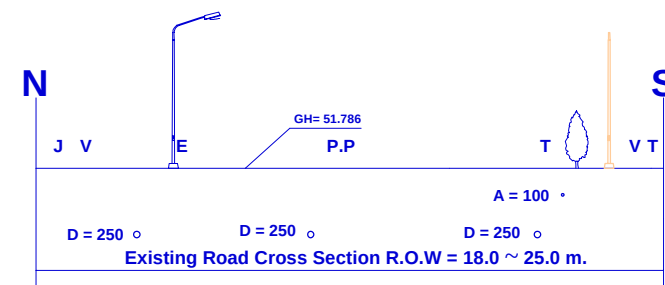
2. Bus Stop Cross Section Proposed



TYPICAL CROSS SECTION OF TRUNK BUSWAY

EXCLUSIVE TRUNK BUSWAY R.O.W.=18.0 25 m. (TYPE - E)

0. Existing Road Cross Section

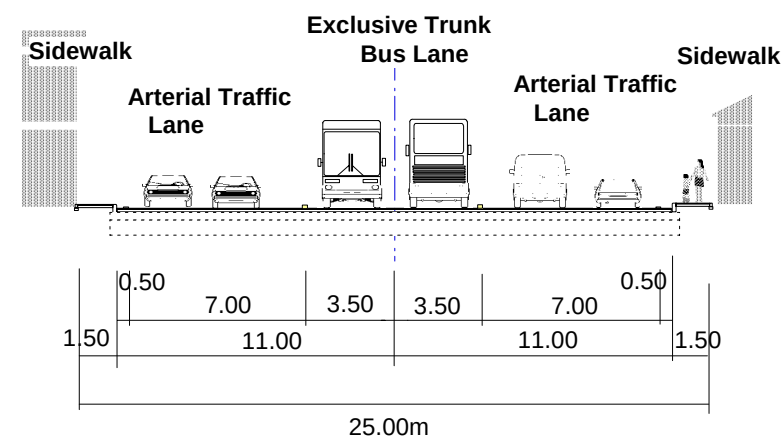


A : Agua
D : Desague
G : Gas

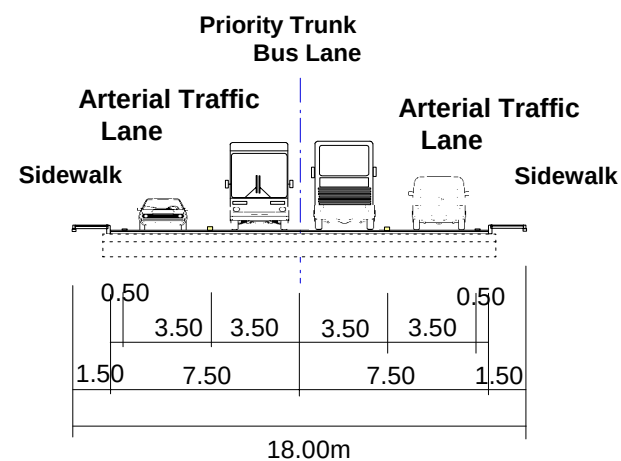
V : Vereda
P.A : Pista Auxiliar
P.P : Pista Principal
E : Estacionamiento
J : Jardín
B : Berma
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1. General Cross Section Proposed

1). R.O.W. = 25.0 m.



2). R.O.W. = 18.0 m.



Typical Cross Section
25 m. (Type - E)

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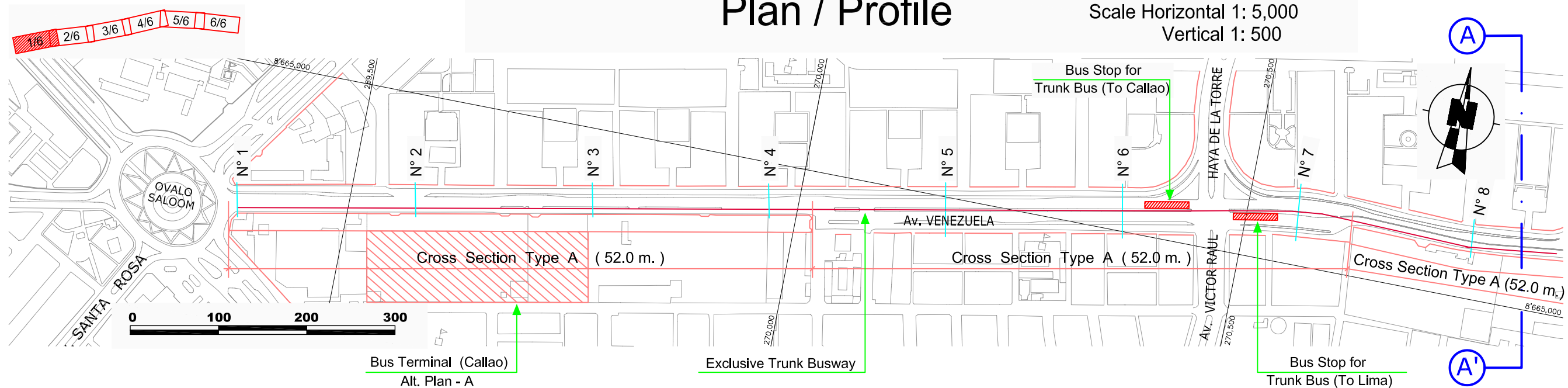
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DWG No.: 5 / 80

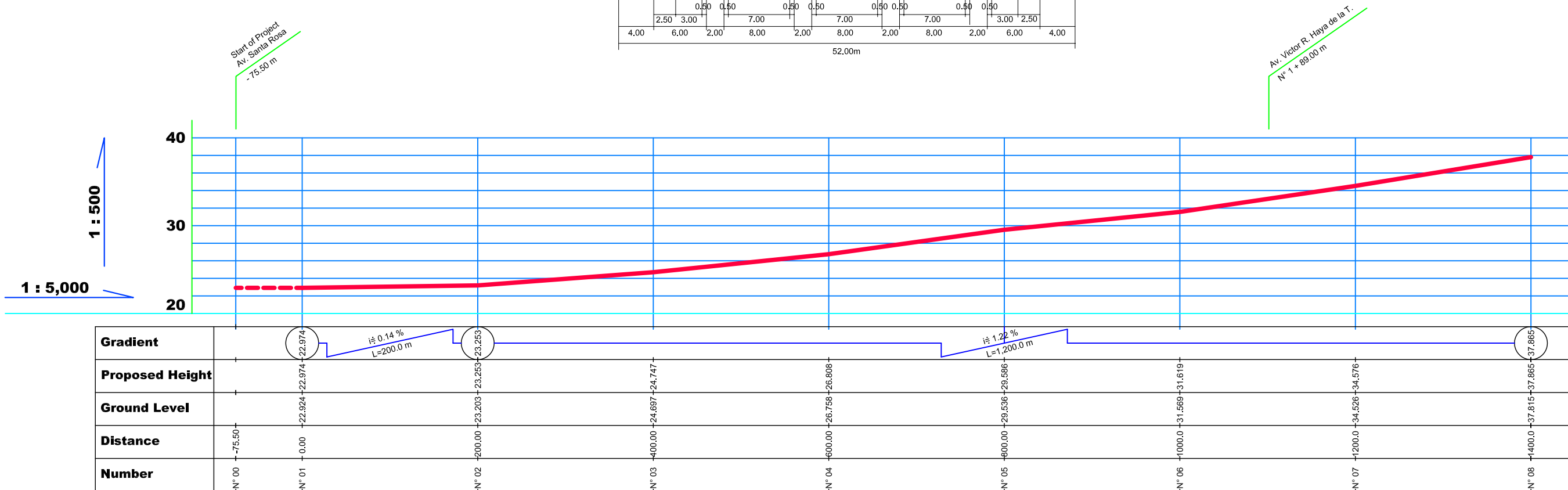
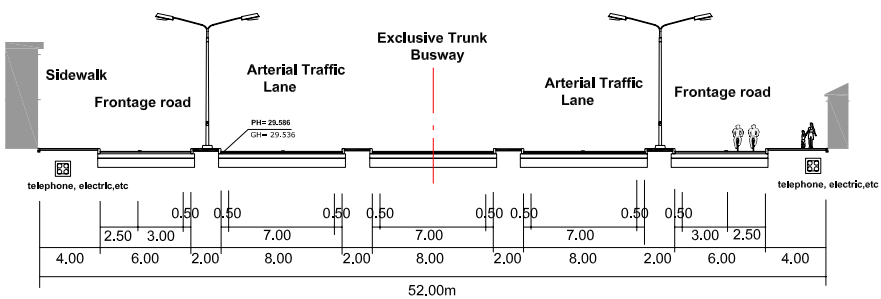
Av. Venezuela - Av. Arica (1 / 6)

Plan / Profile

Scale Horizontal 1: 5,000
Vertical 1: 500



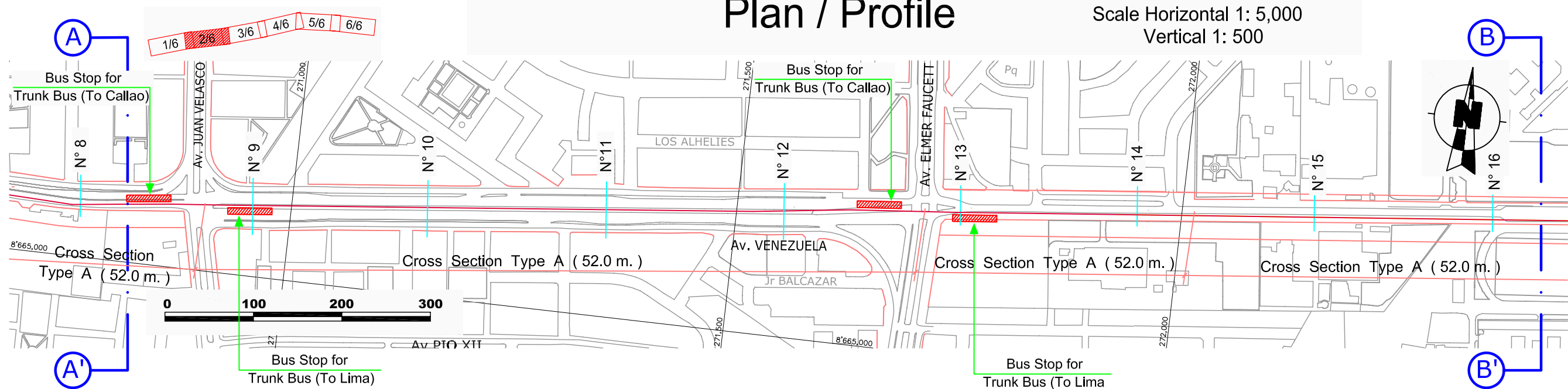
Typical Cross Section Type - A



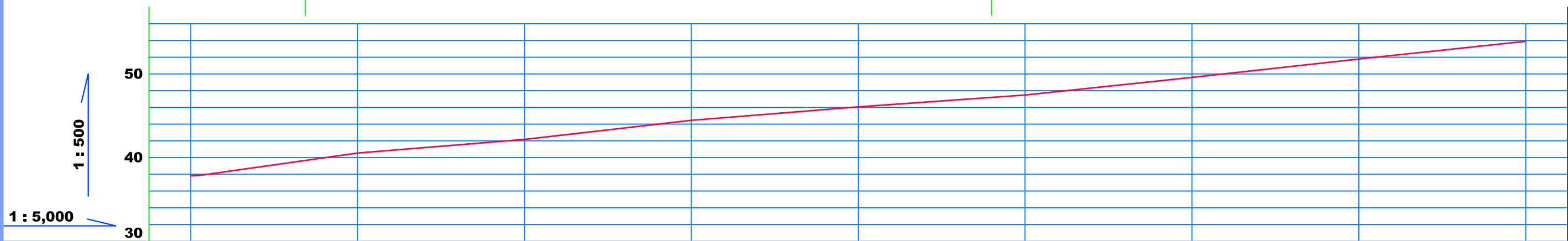
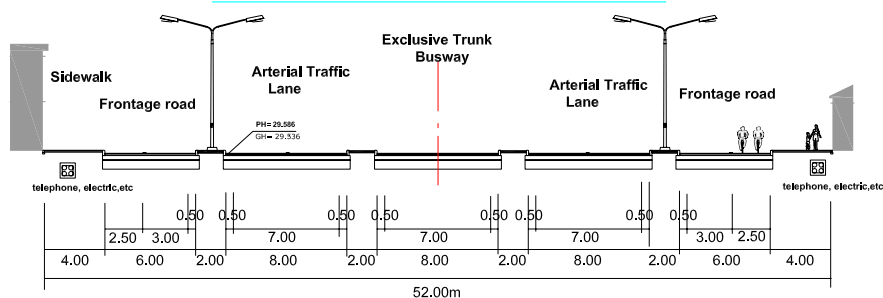
Av. Venezuela - Av. Arica (2 / 6)

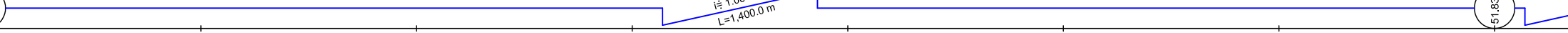
Plan / Profile

Scale Horizontal 1: 5,000
Vertical 1: 500



Typical Cross Section Type - A



Gradient																
Proposed Height	37.865	40.585	42.220	44.503	46.109	47.528	48.628	51.836	53.948							
Ground Level	37.815	40.535	42.170	44.453	46.059	47.478	48.578	51.786	53.898							
Distance	1400.0	1600.0	1800.0	2000.0	2200.0	2400.0	2600.0	2800.0	3000.0							
Number	N° 08	N° 09	N° 10	N° 11	N° 12	N° 13	N° 14	N° 15	N° 16							

Station N° 08 to N° 16
Av. Venezuela - Av. Arica
Plan / Profile

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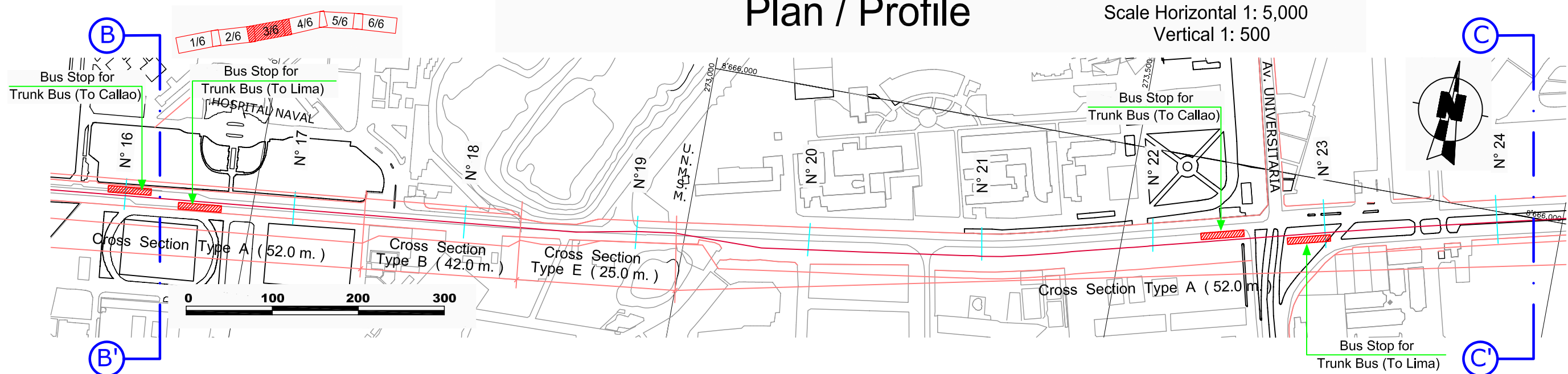
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DWG N° : 7 / 80

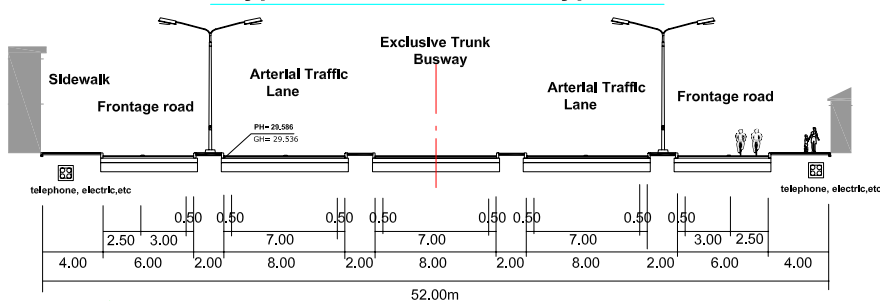
Av. Venezuela - Av. Arica (3 / 6)

Plan / Profile

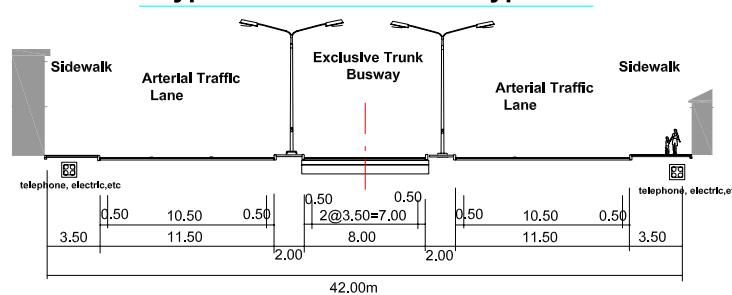
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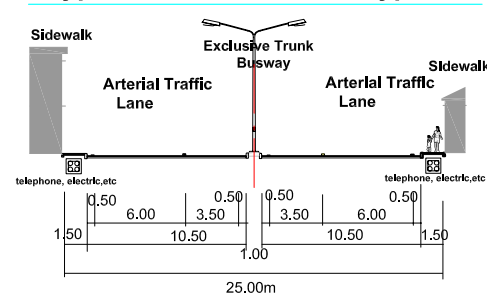
Typical Cross Section Type - A



Typical Cross Section Type - B



Typical Cross Section Type - E



Gradient										
Proposed Height	53.948			66.770	66.872					78.536
Ground Level	+53.898	+58.258	+63.242	+66.720	+66.822	+69.041	+71.882	+74.790	+78.536	
Distance	+3000.0	+3200.0	+3400.0	+3600.0	+3800.0	+4000.0	+4200.0	+4400.0	+4600.0	
Number	N° 16	N° 17	N° 18	N° 19	N° 20	N° 21	N° 22	N° 23	N° 24	

Station N° 16 to N° 24
Av. Venezuela - Av. Arica
Plan / Profile

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SCALE : H = 1 : 5,000 V = 1 : 500

DWG N° : 8 / 80