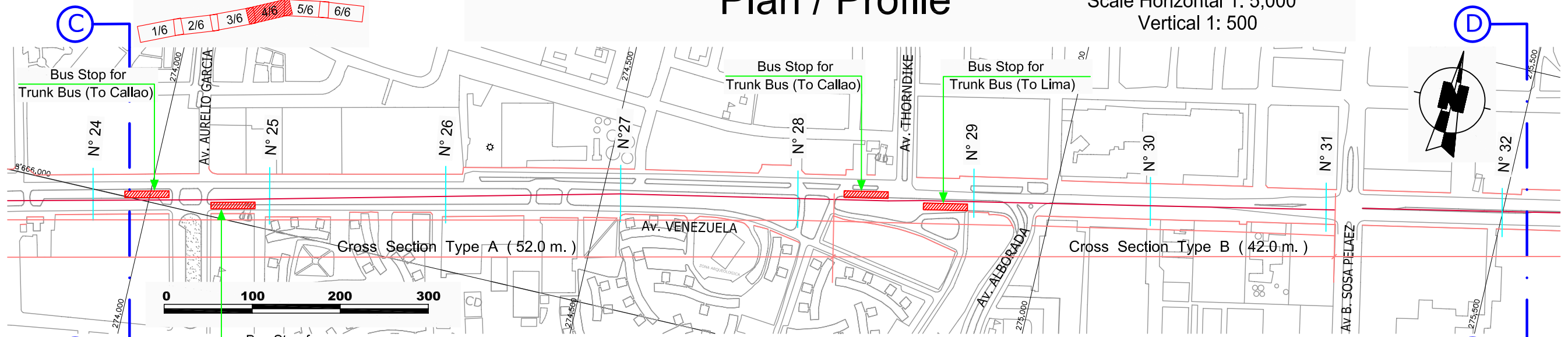


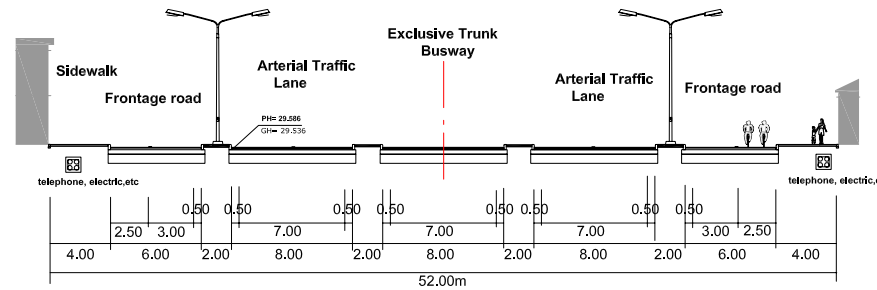
# Av. Venezuela - Av. Arica ( 4 / 6 )

## Plan / Profile

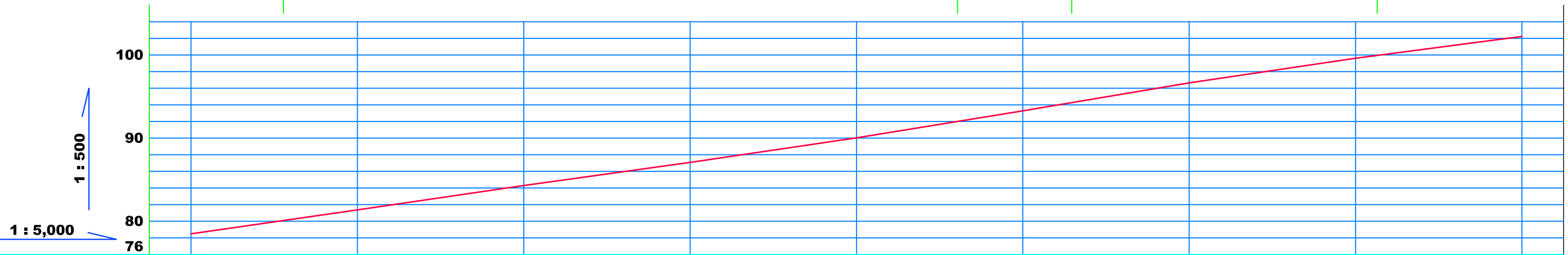
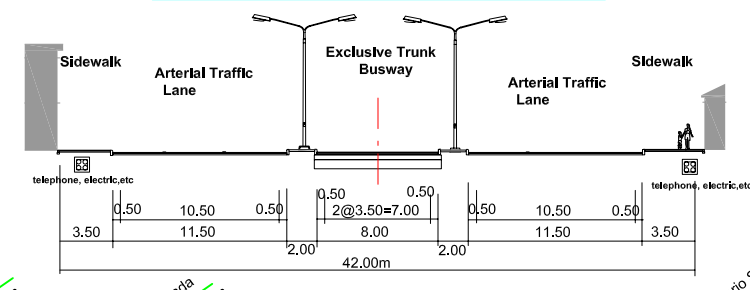
Scale Horizontal 1: 5,000  
Vertical 1: 500



Typical Cross Section Type - A



Typical Cross Section Type - B



Gradient	Proposed Height	Ground Level	Distance	Number
	78.536			N° 24
				N° 25
1.44 % L=800.0 m				N° 26
				N° 27
				N° 28
				N° 29
1.53 % L=800.0 m				N° 30
				N° 31
				N° 32

Station N° 24 to N° 32  
Av. Venezuela - Av. Arica  
Plan / Profile

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

JAPAN INTERNATIONAL  
COOPERATION AGENCY  
( JICA )

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

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

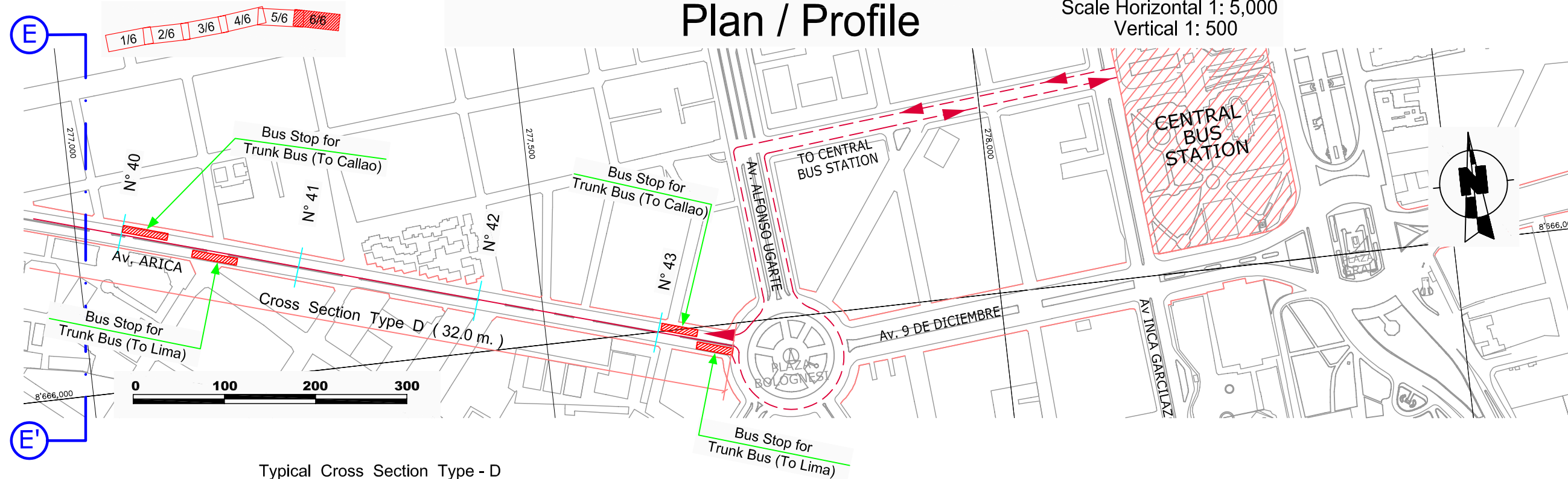
DWG N° : 9 / 80



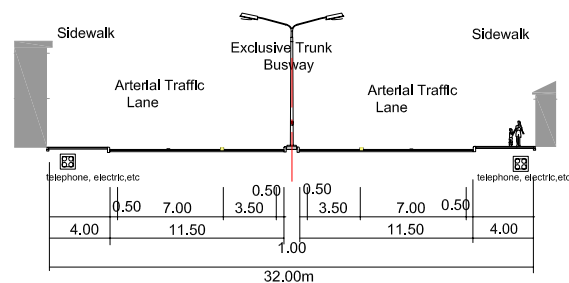
# Av. Venezuela - Av. Arica ( 6 / 6 )

## Plan / Profile

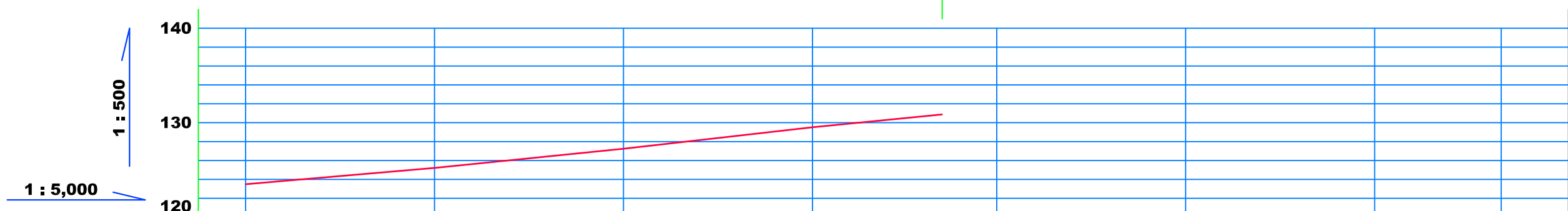
Scale Horizontal 1: 5,000  
Vertical 1: 500



Typical Cross Section Type - D



Plaza Francisco Bolognesi  
N° 8 + 548.70 m



Gradient	Proposed Height	Ground Level	Distance	Number
				N° 40
				N° 41
$i = 1.00\%$ $L = 600.0\text{ m}$				N° 42
				N° 43
$i = 0.99\%$ $L = 195.0\text{ m}$				N° 44
				N° 45
$i = 1.40\%$ $L = 534.0\text{ m}$				N° 46
				N° 47

Station N° 40 to N° 43  
Av. Venezuela - Av. Arica  
Plan / Profile

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

JAPAN INTERNATIONAL  
COOPERATION AGENCY  
( JICA )

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

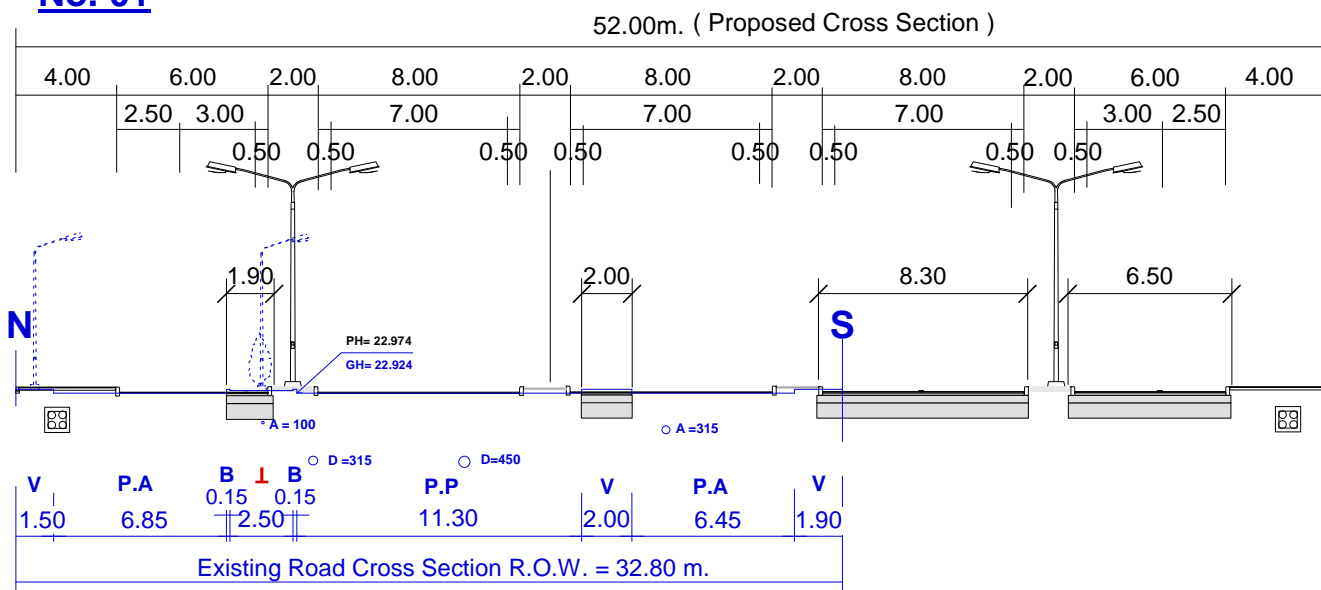
SCALE : H = 1 : 5,000 V = 1 : 500

DWG N° : 11 / 80

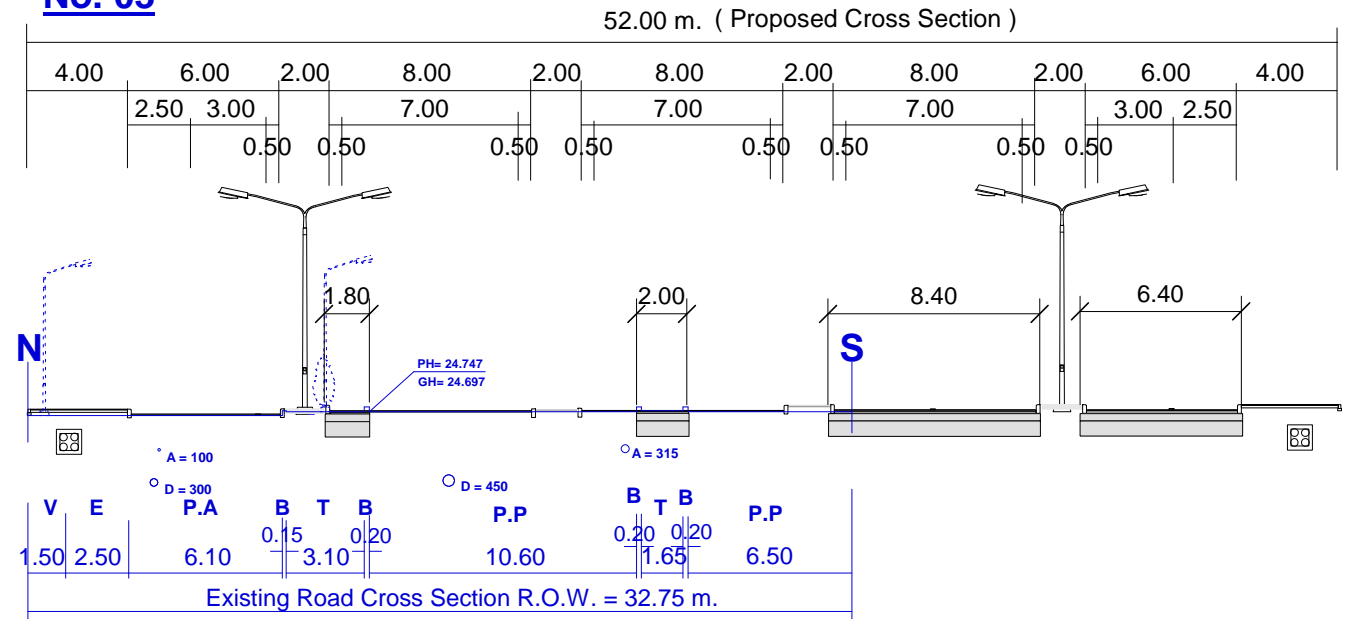
# Cross Section Design

## Av. Venezuela - Av. Arica (1 / 11)

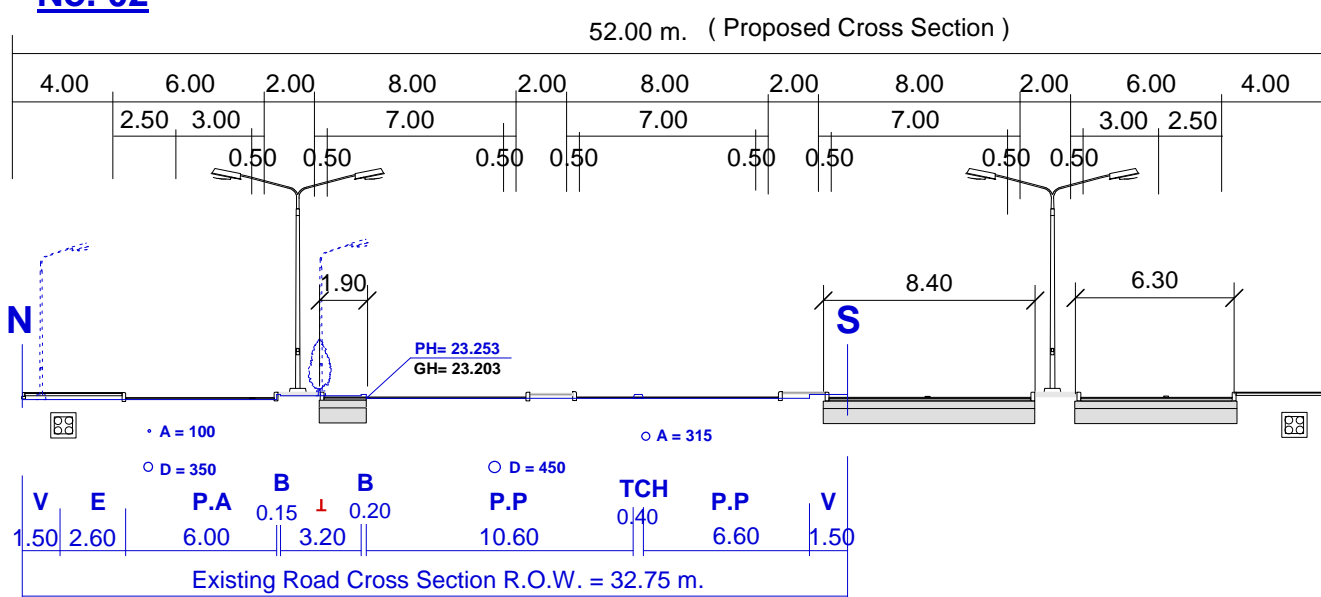
**No. 01**



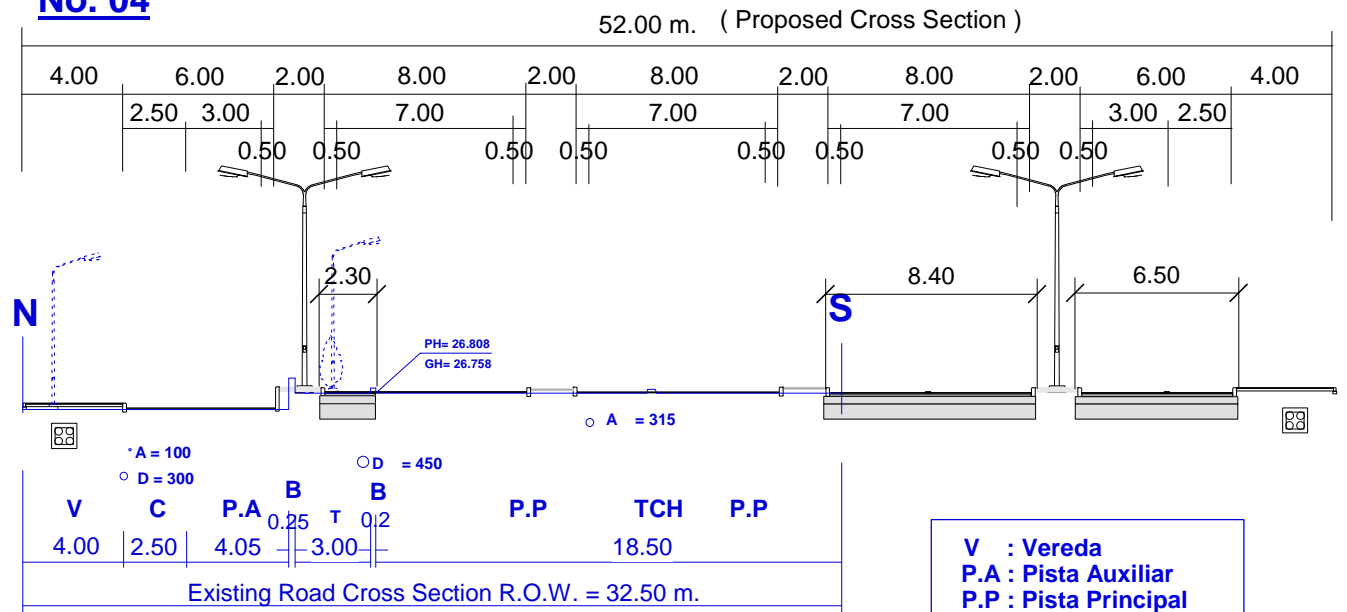
**No. 03**



**No. 02**



**No. 04**

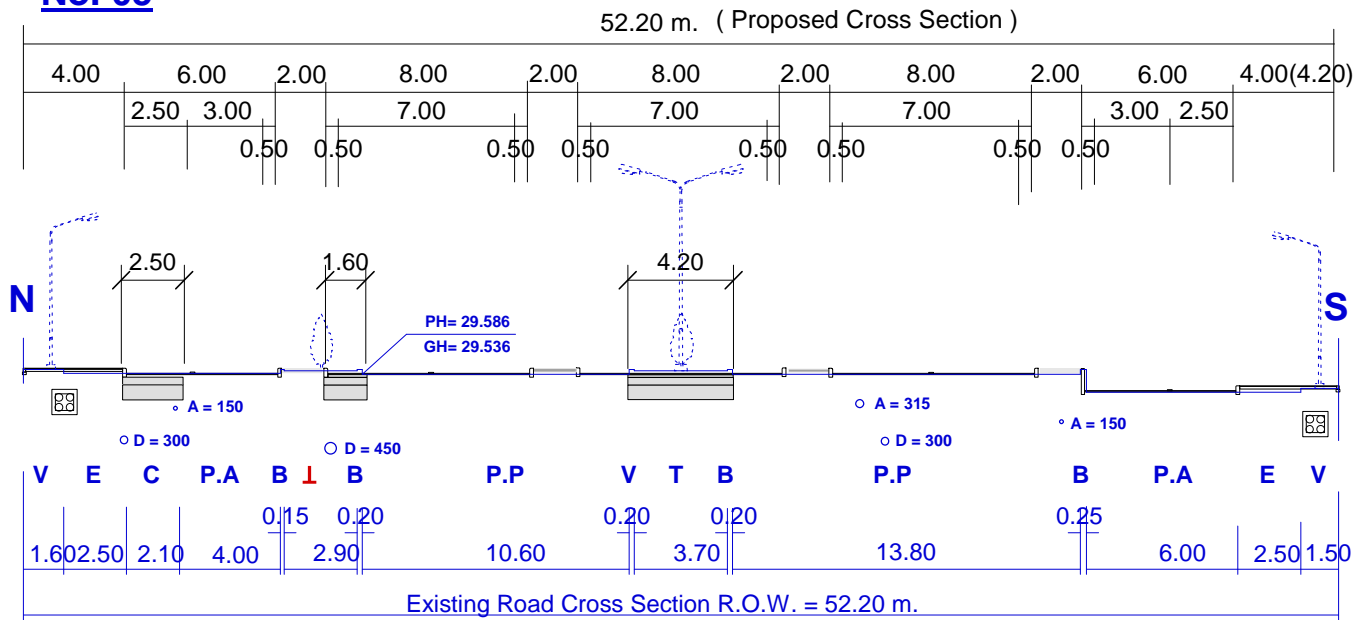


- V : Vereda
- P.A : Pista Auxiliar
- P.P : Pista Principal
- E : Estacionamiento
- J : JardU+00edn
- B : Berma
- T : Tierra

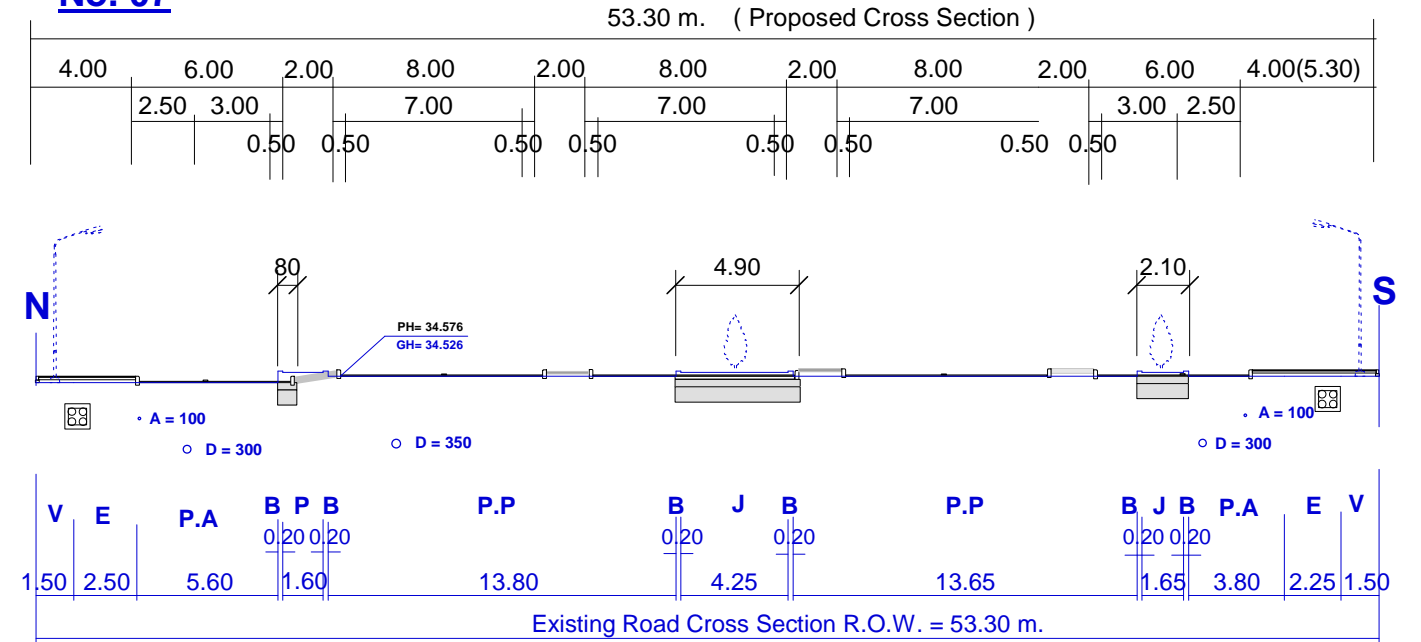
# Cross Section Design

## Av. Venezuela - Av. Arica (2 / 11)

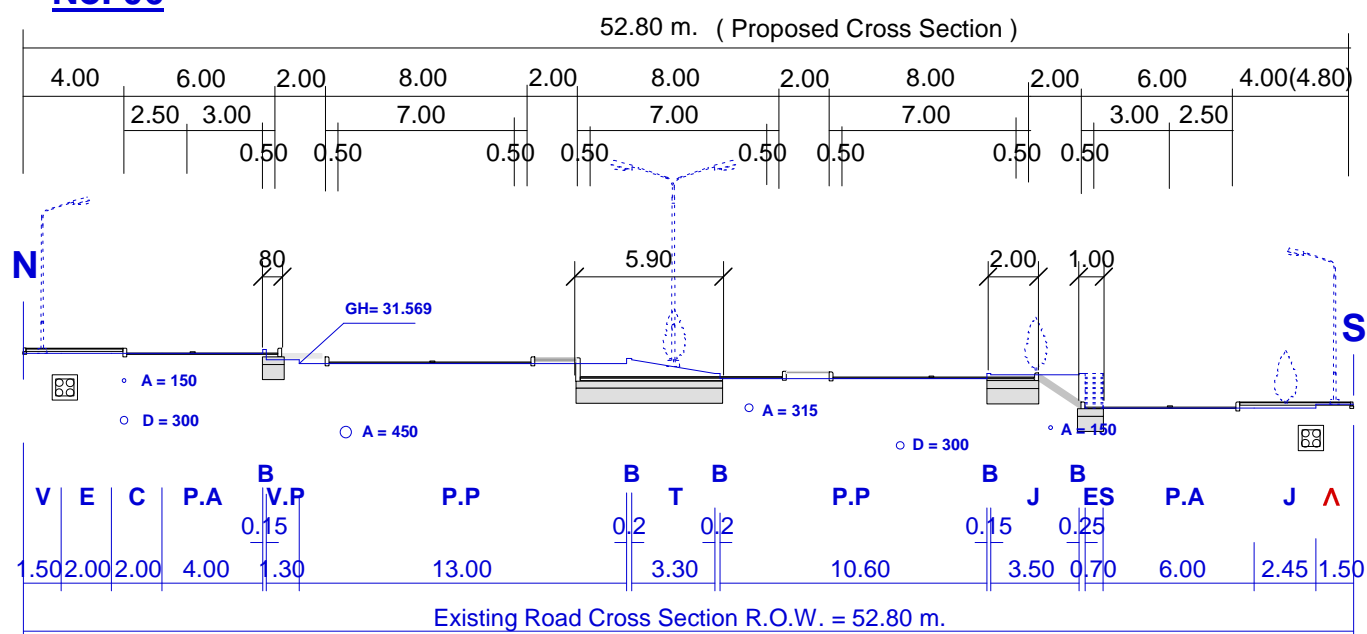
**No. 05**



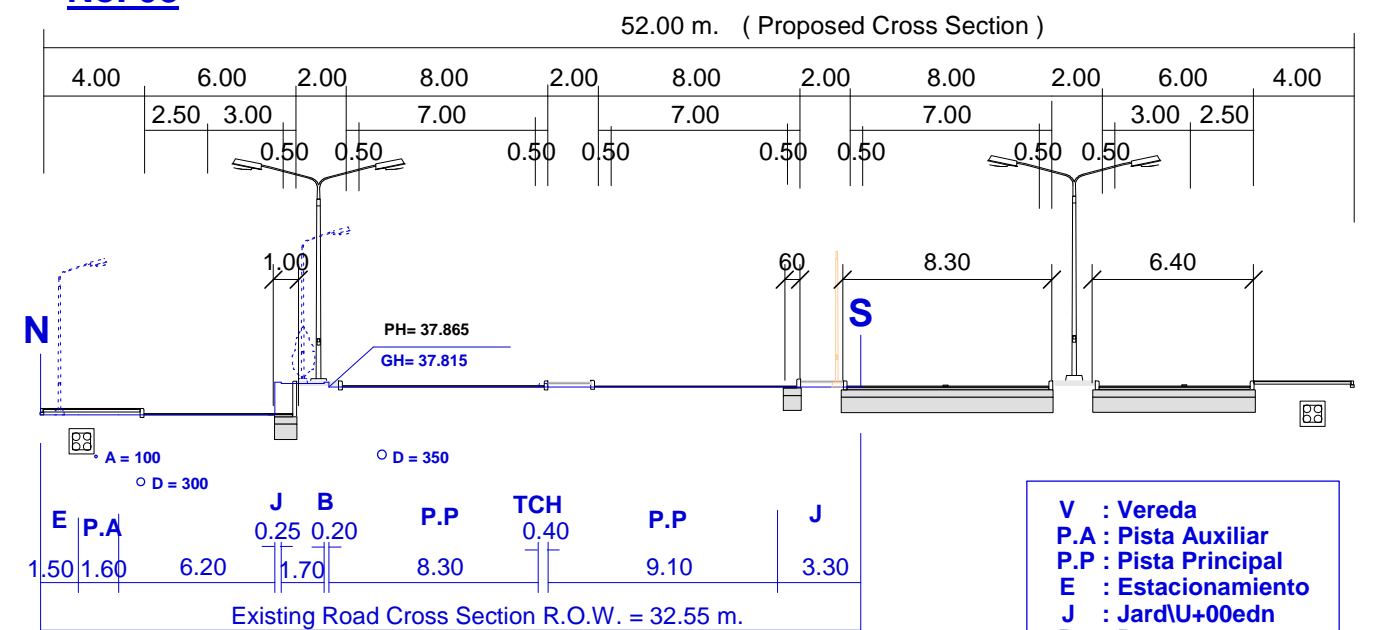
**No. 07**



**No. 06**



**No. 08**



- V : Vereda
- P.A : Pista Auxiliar
- P.P : Pista Principal
- E : Estacionamiento
- J : JardU+00edn
- B : Berma
- T : Tierra



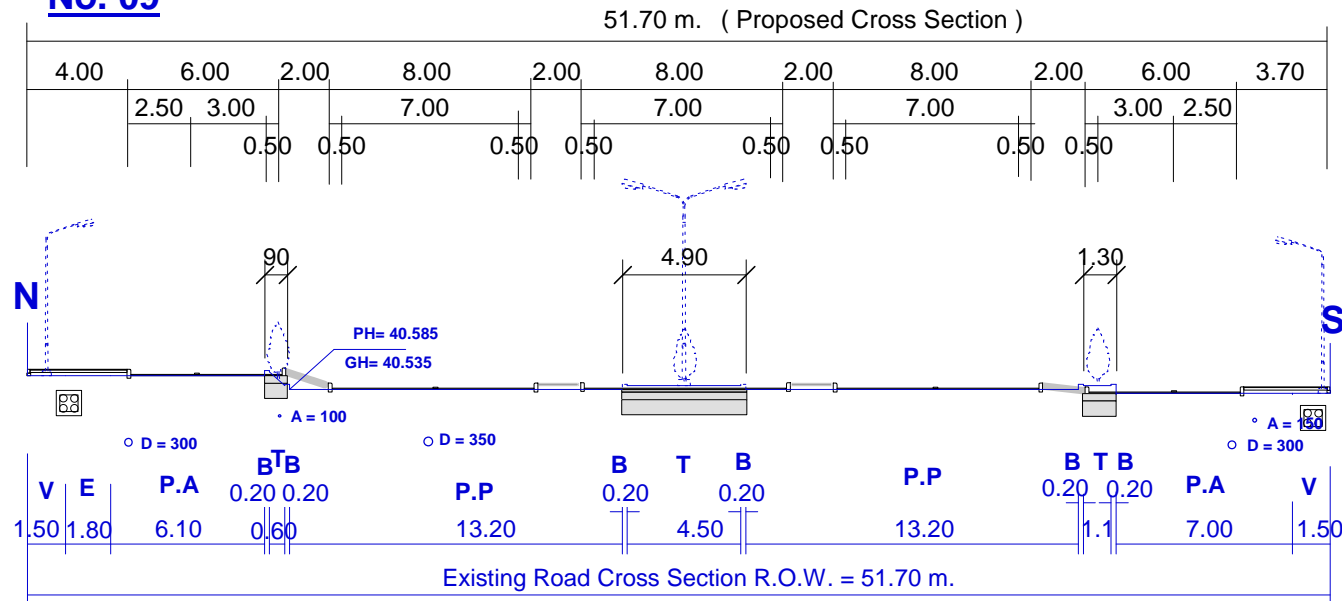
# Cross Section Design

## Av. Venezuela - Av. Arica (3 / 11)

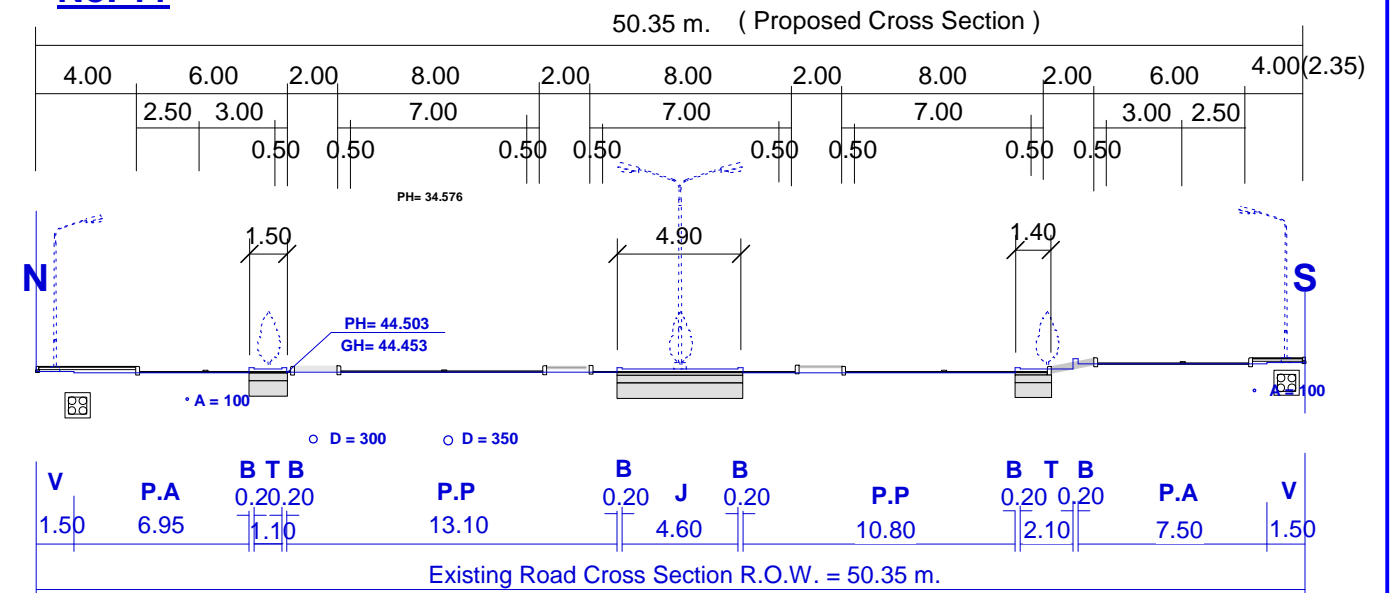
A : Agua  
D : Desague  
G : Gas

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

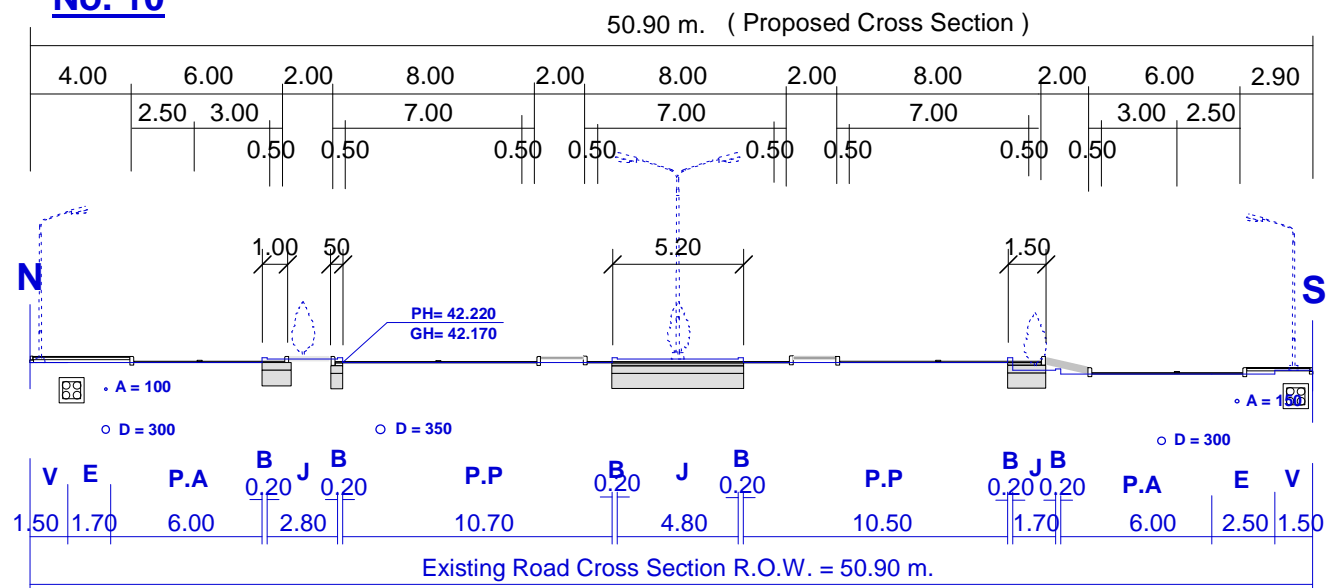
**No. 09**



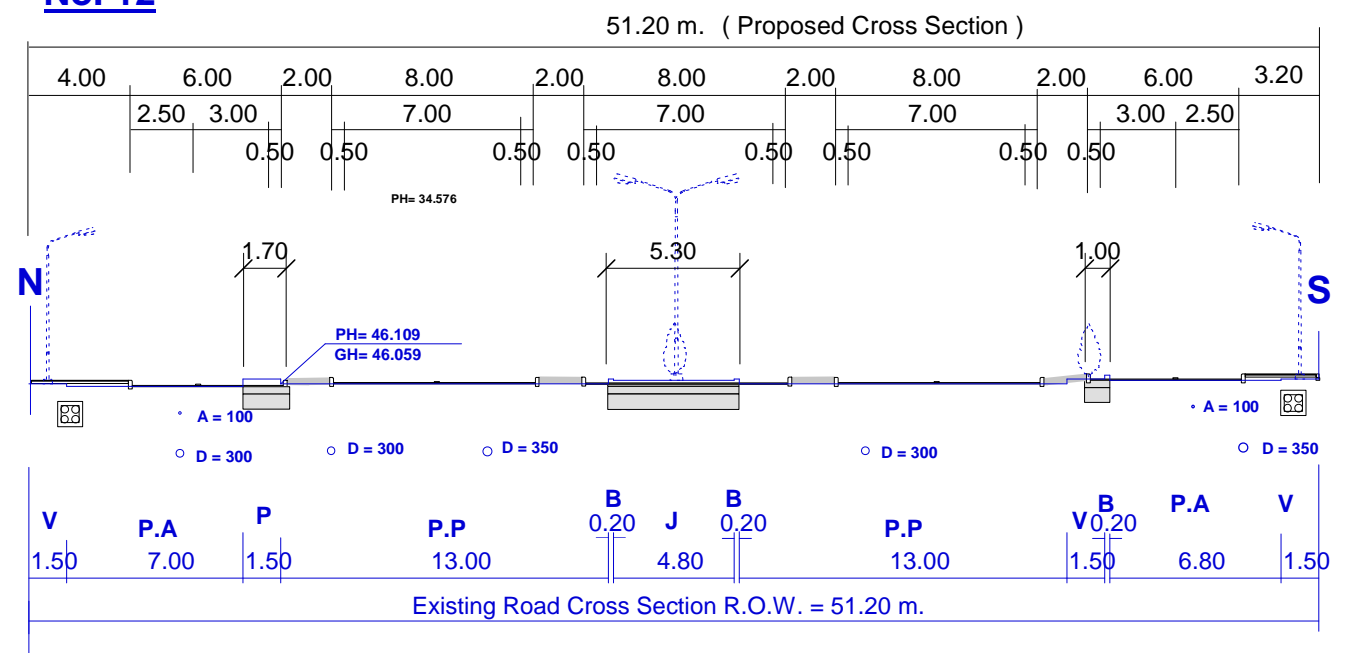
**No. 11**



**No. 10**



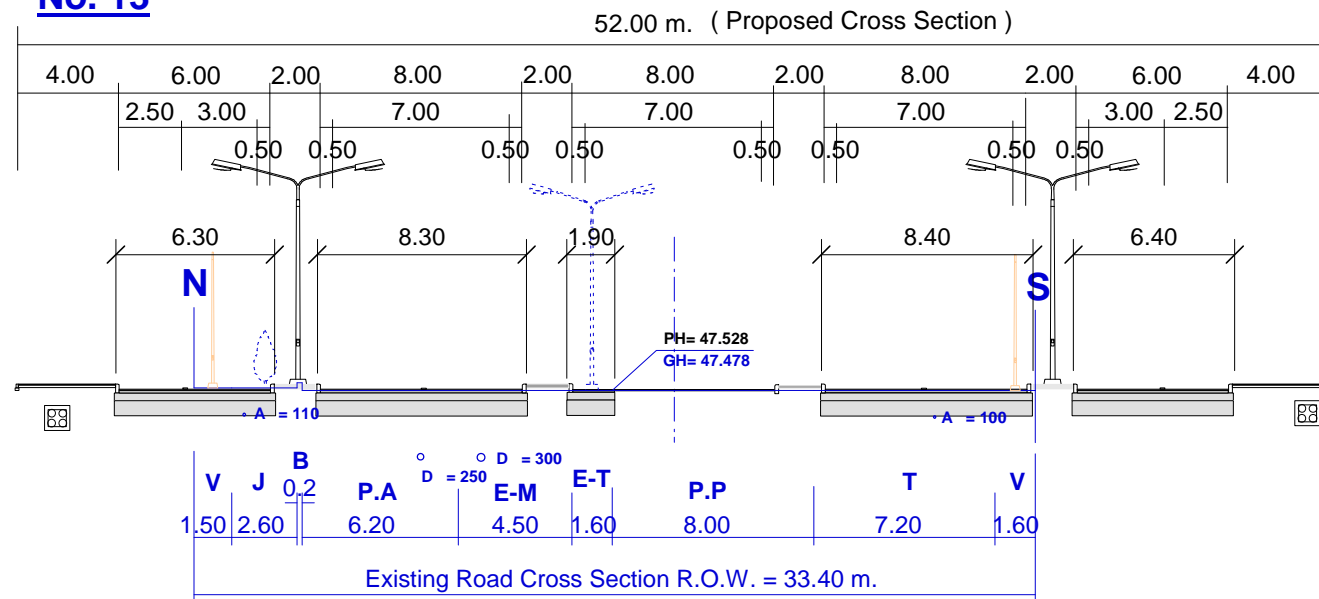
**No. 12**



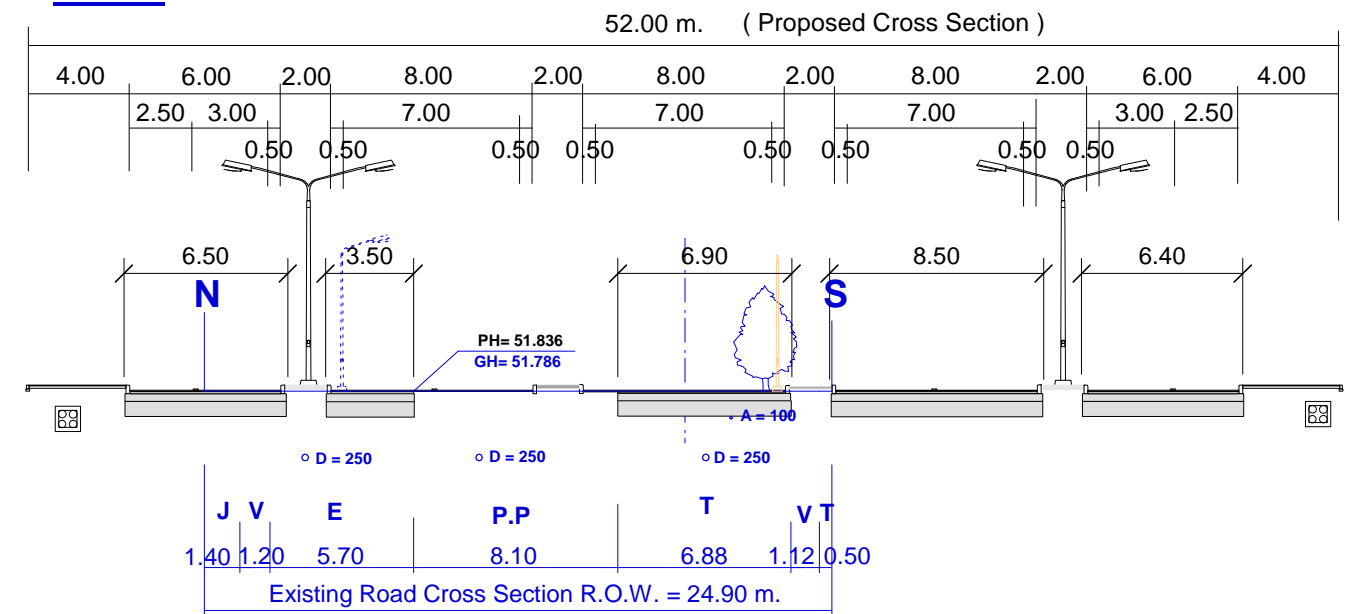
# Cross Section Design

## Av. Venezuela - Av. Arica (4 / 11)

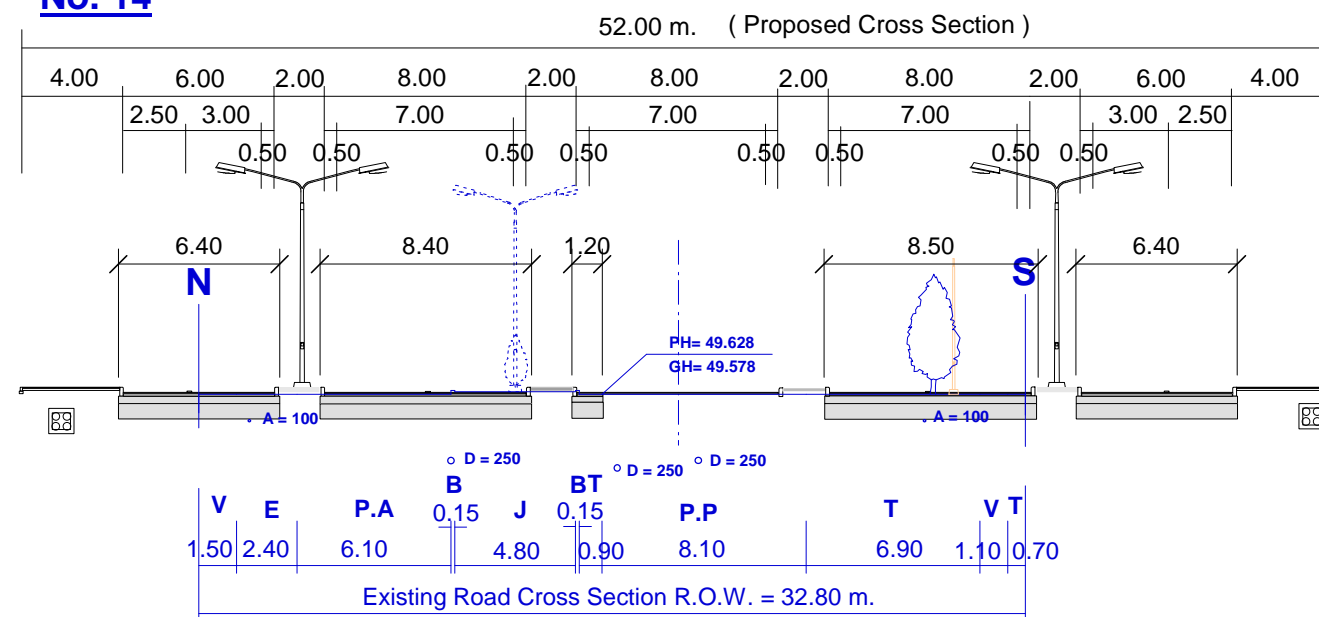
**No. 13**



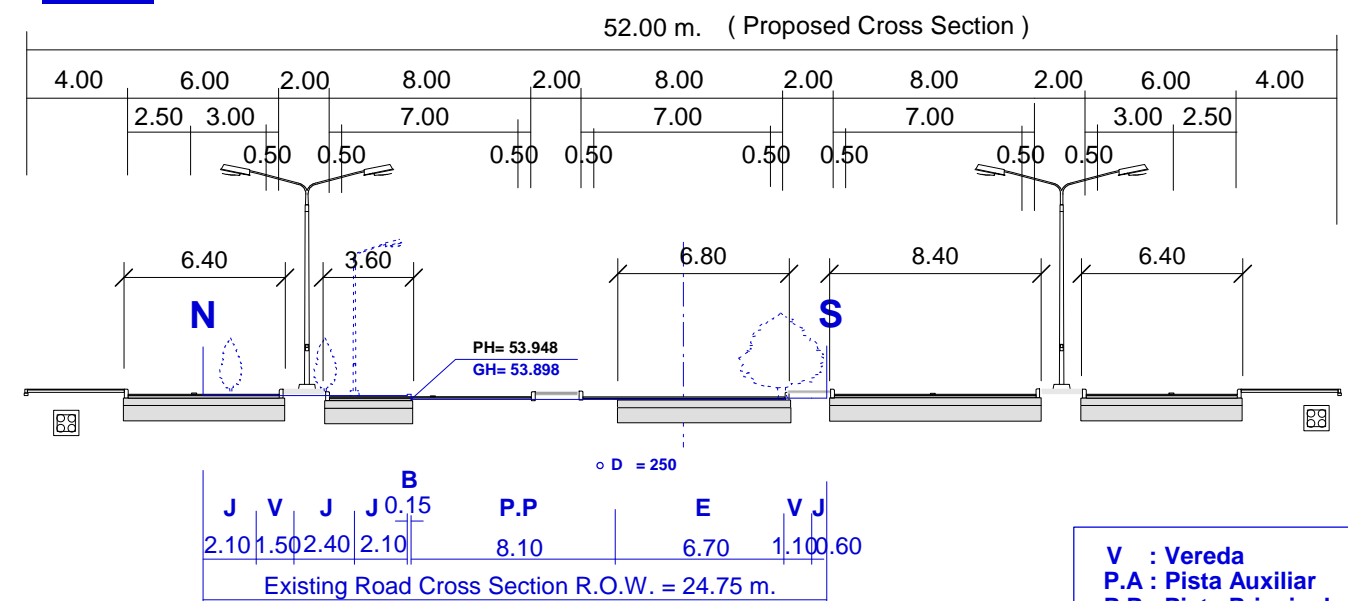
**No. 15**



**No. 14**



**No. 16**



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

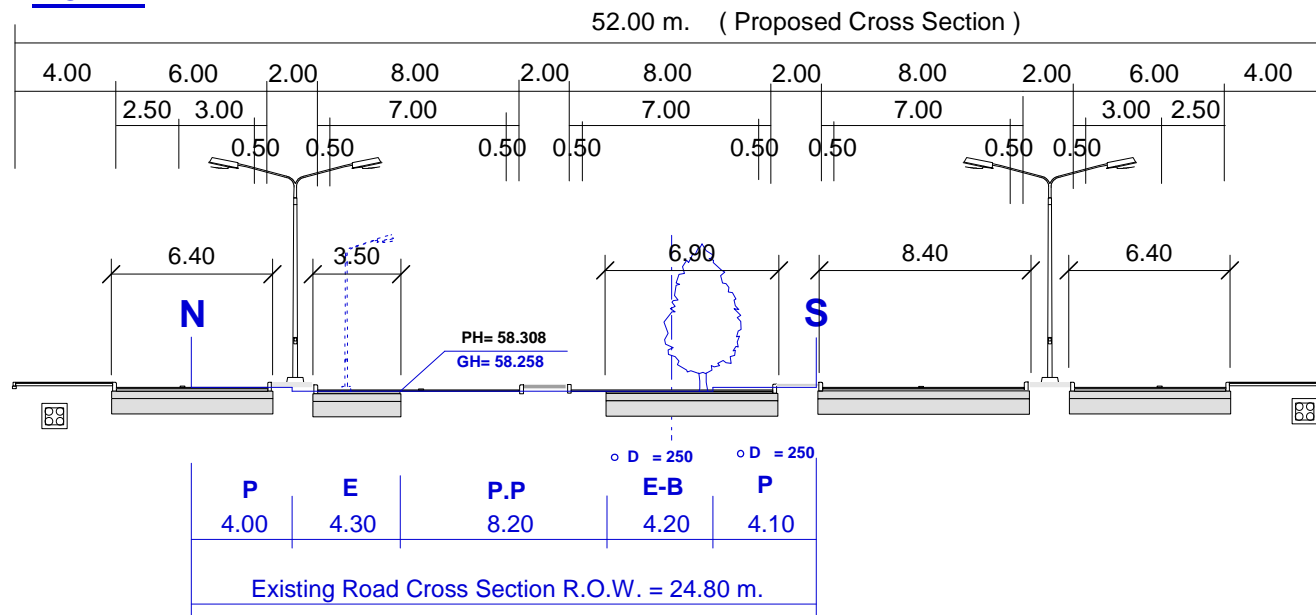
# Cross Section Design

## Av. Venezuela - Av. Arica (5 / 11)

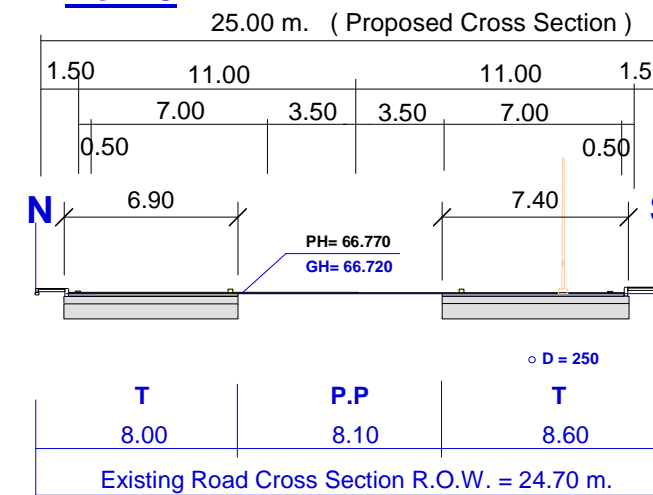
A : Agua  
D : Desague  
G : Gas

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

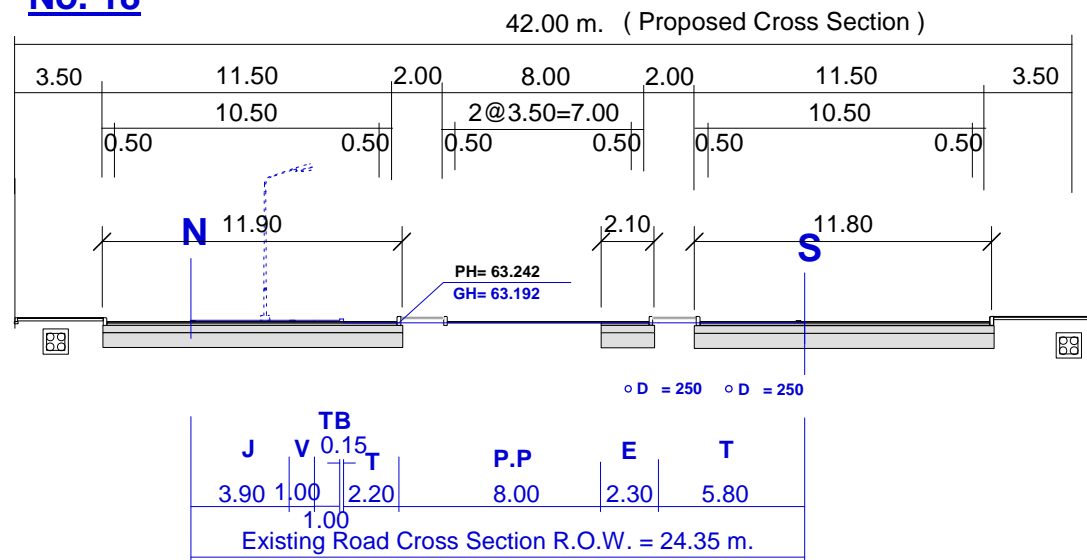
**No. 17**



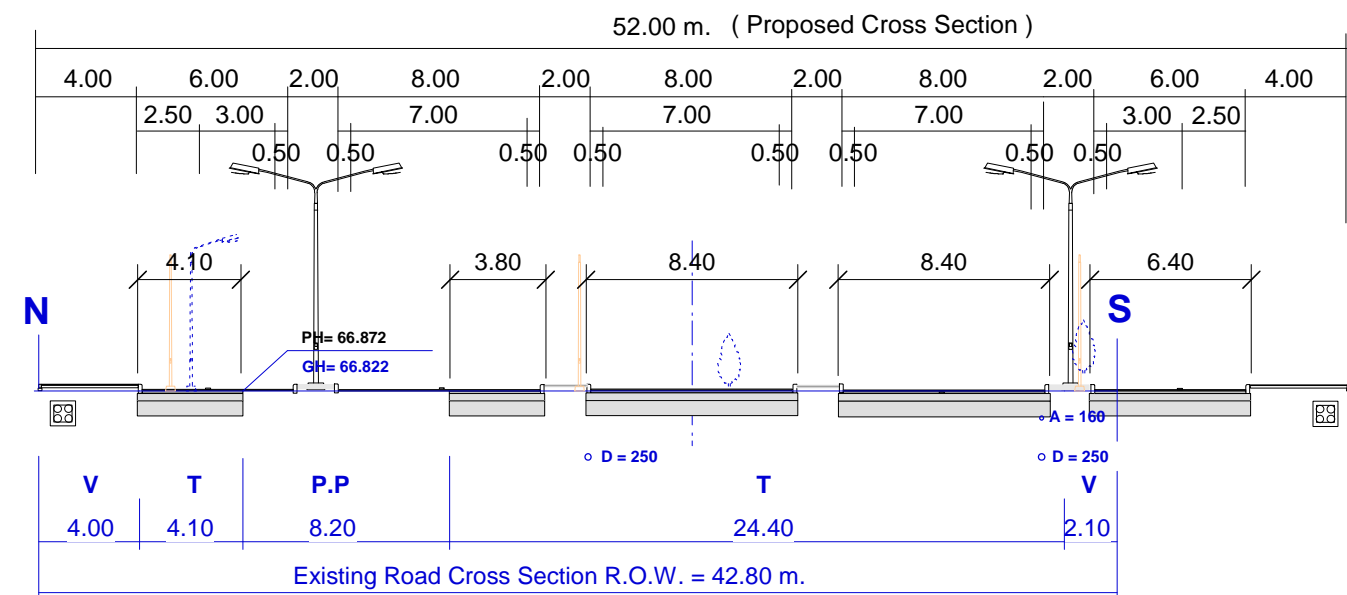
**No. 19**



**No. 18**



**No. 20**



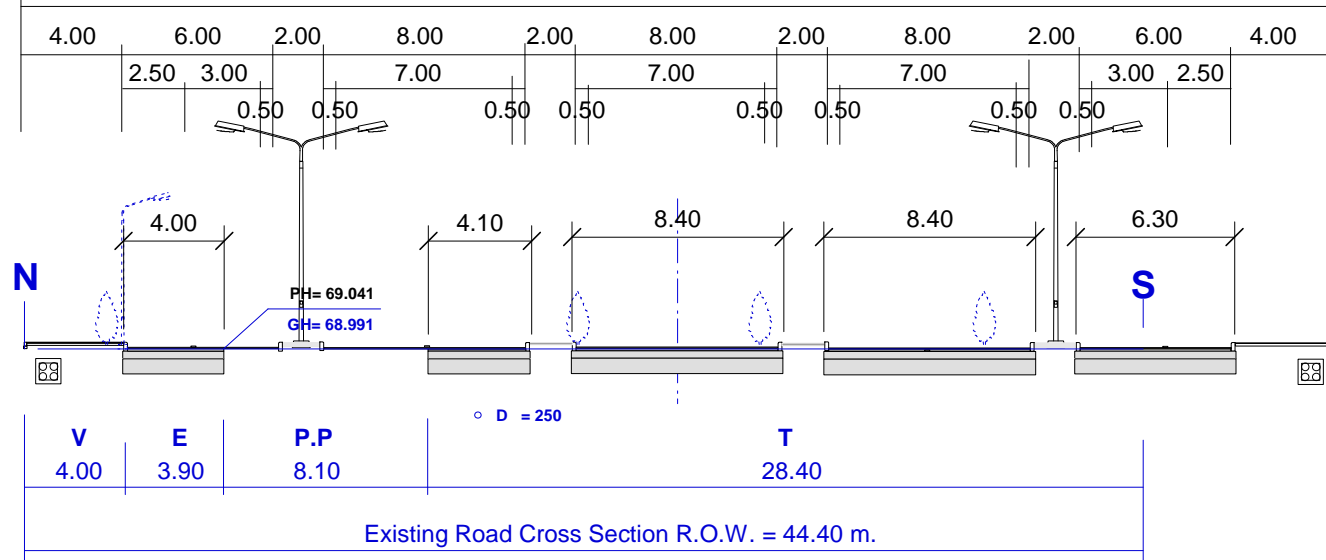


# Cross Section Design

## Av. Venezuela - Av. Arica (6 / 11)

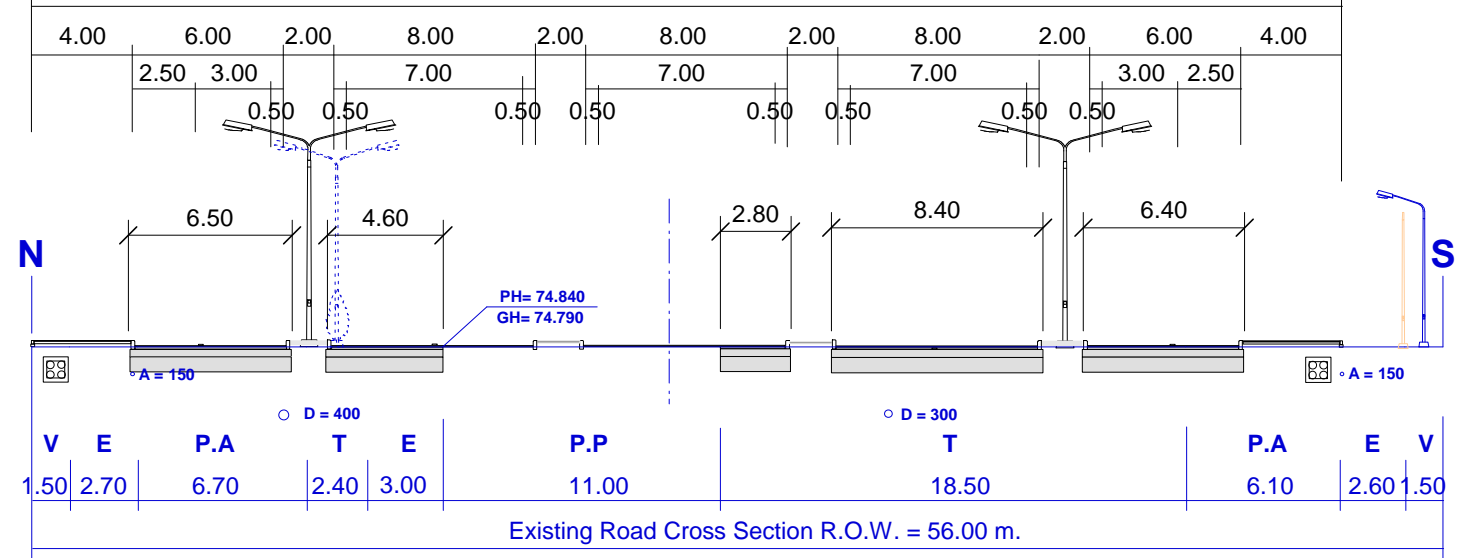
**No. 21**

52.00 m. (Proposed Cross Section)



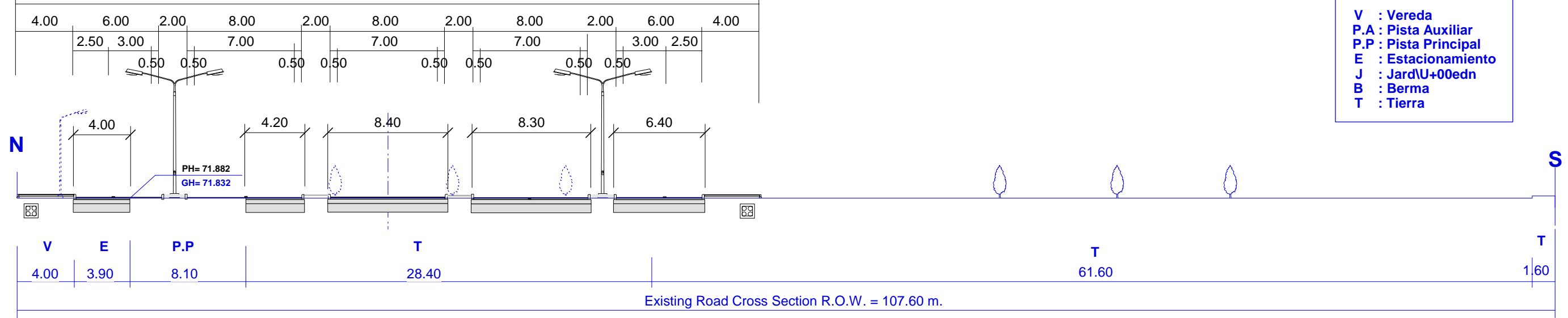
**No. 23**

52.00 m. (Proposed Cross Section)



**No. 22**

52.00 m. (Proposed Cross Section)



A : Agua  
D : Desague  
G : Gas

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

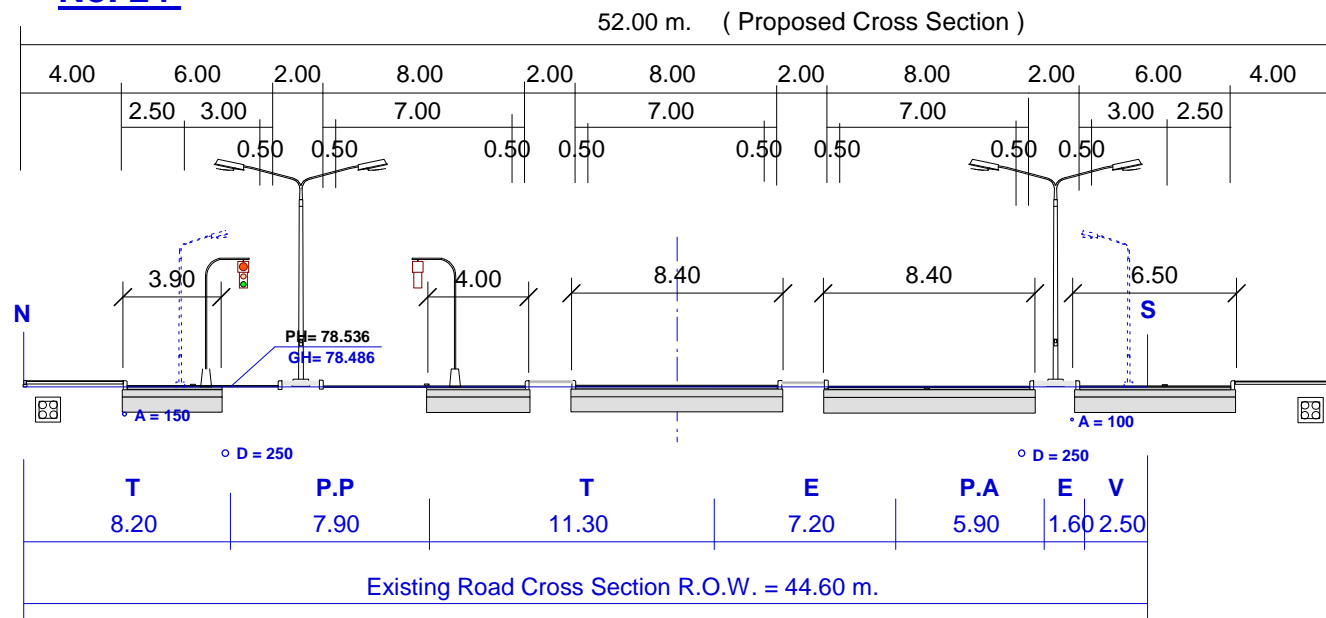
# Cross Section Design

## Av. Venezuela - Av. Arica (7 / 11)

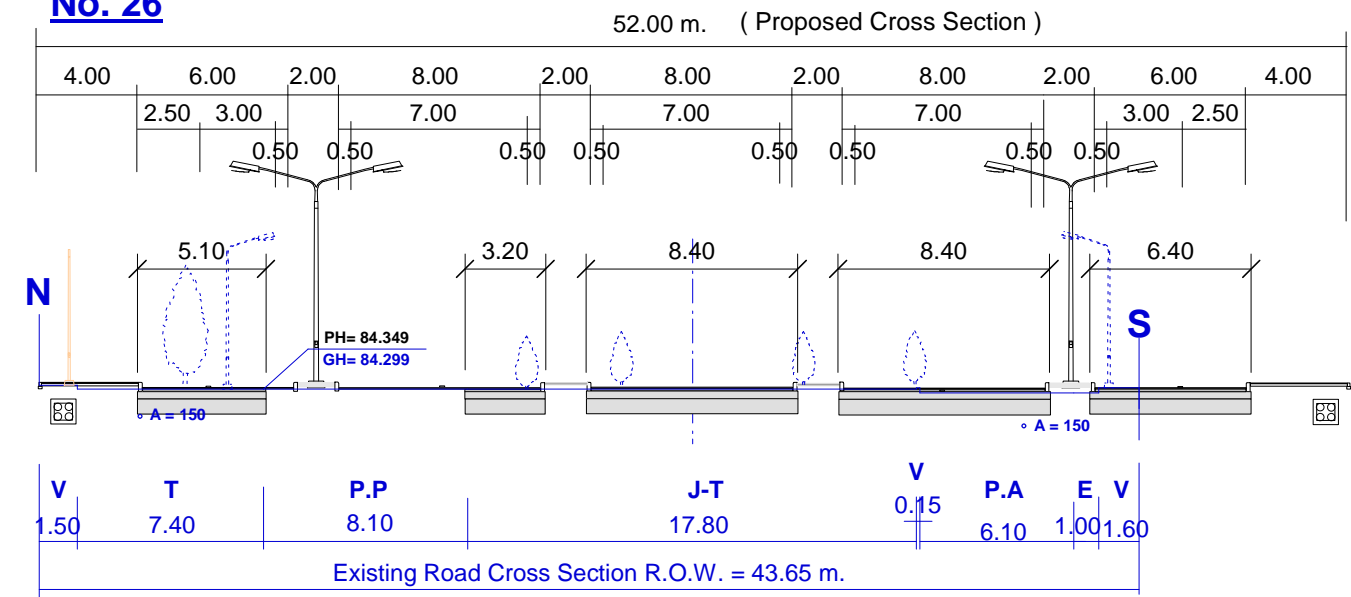
A : Agua  
D : Desague  
G : Gas

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

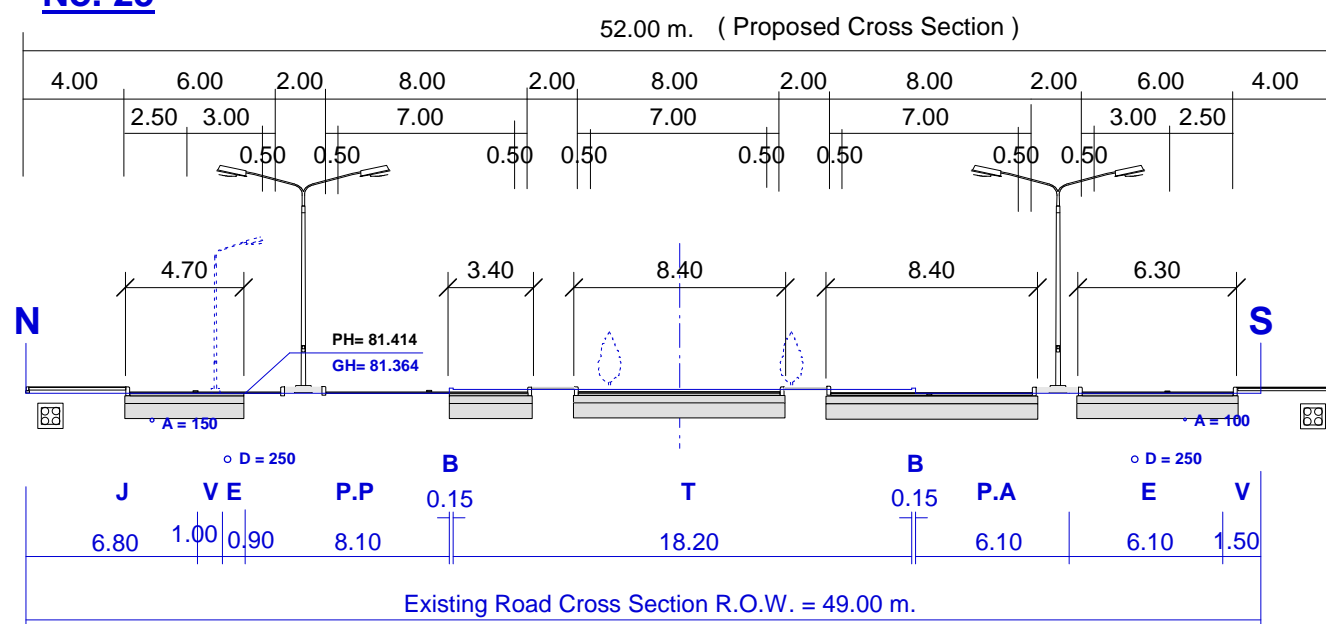
**No. 24**



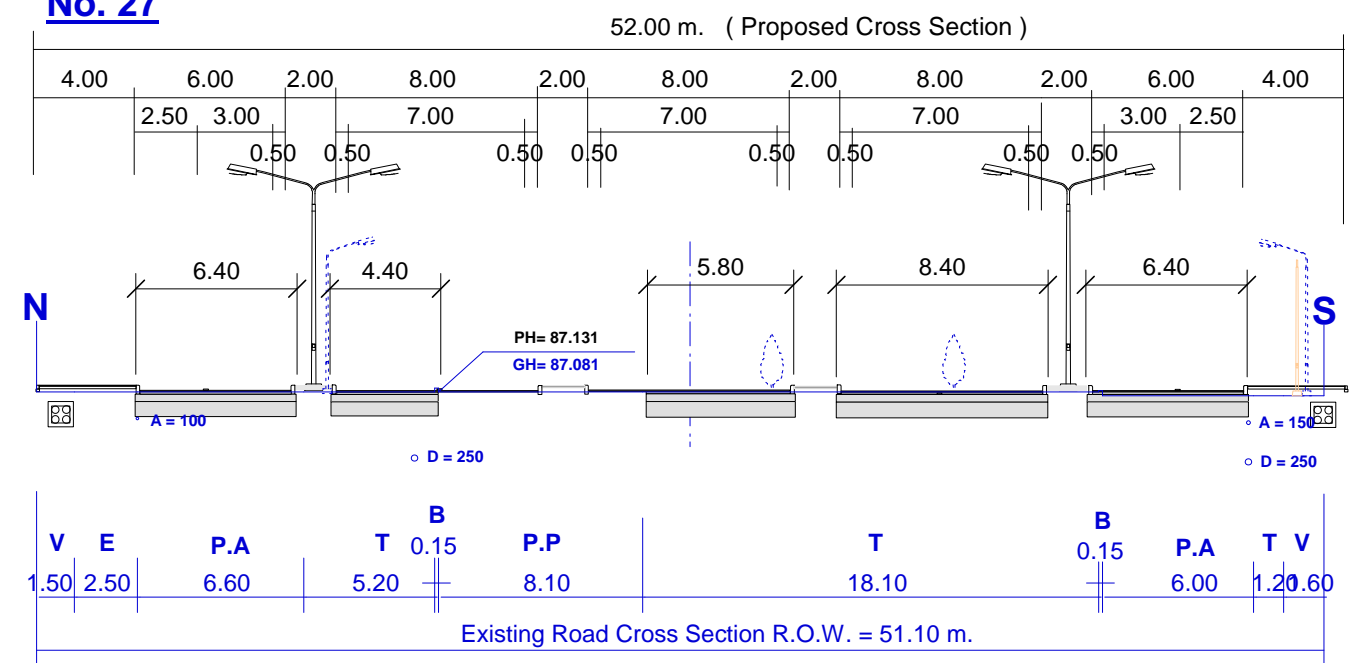
**No. 26**



**No. 25**



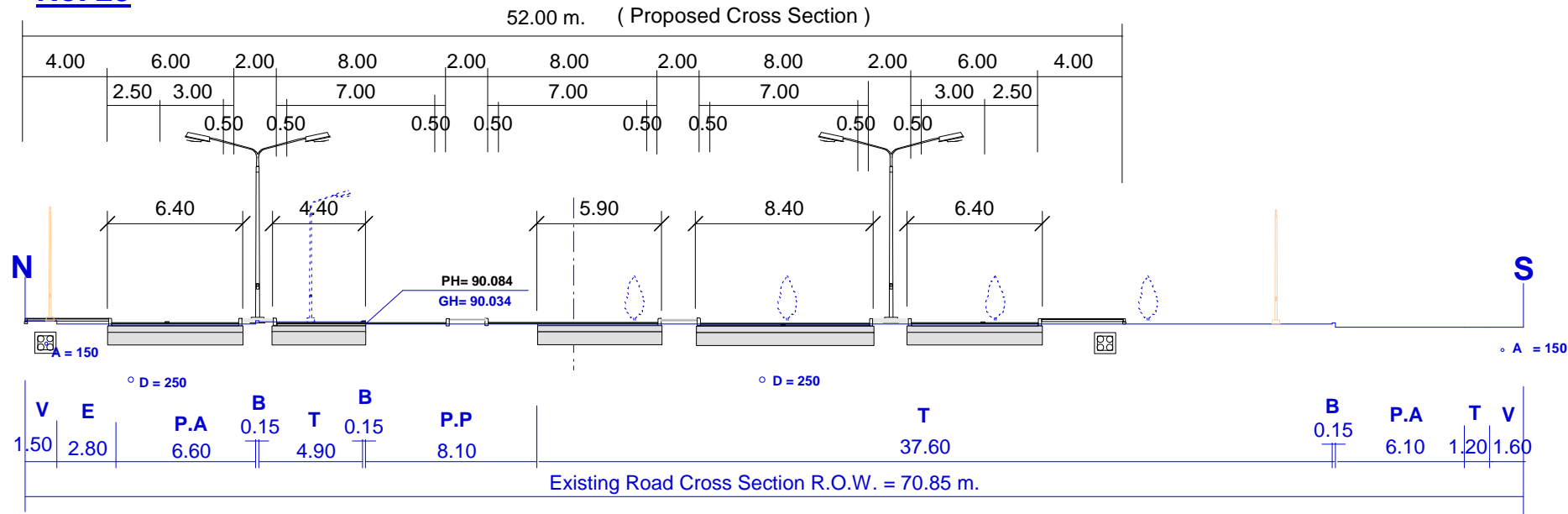
**No. 27**



# Cross Section Design

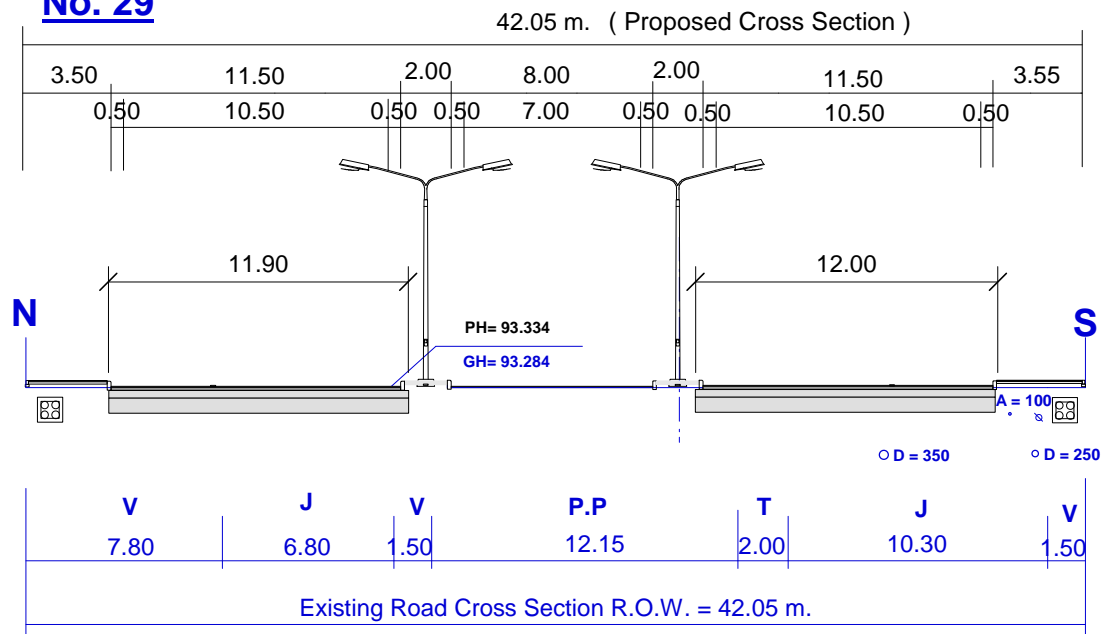
## Av. Venezuela - Av. Arica (8 / 11)

**No. 28**

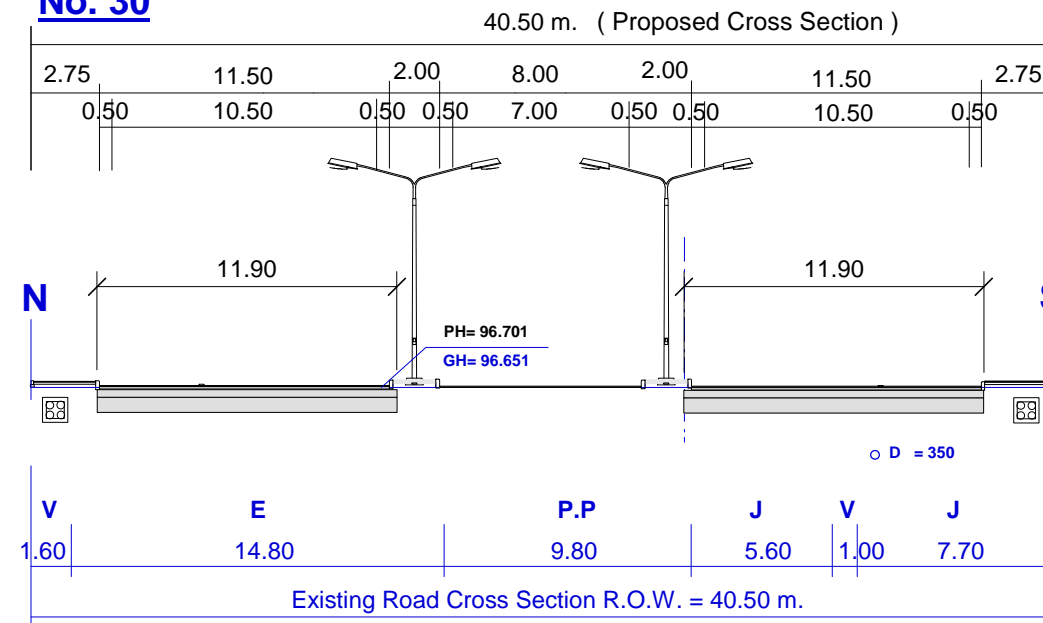


- A : Agua
  - D : Desague
  - G : Gas
- 
- V : Vereda
  - P.A : Pista Auxiliar
  - P.P : Pista Principal
  - E : Estacionamiento
  - J : JardU+00edn
  - B : Berma
  - T : Tierra

**No. 29**



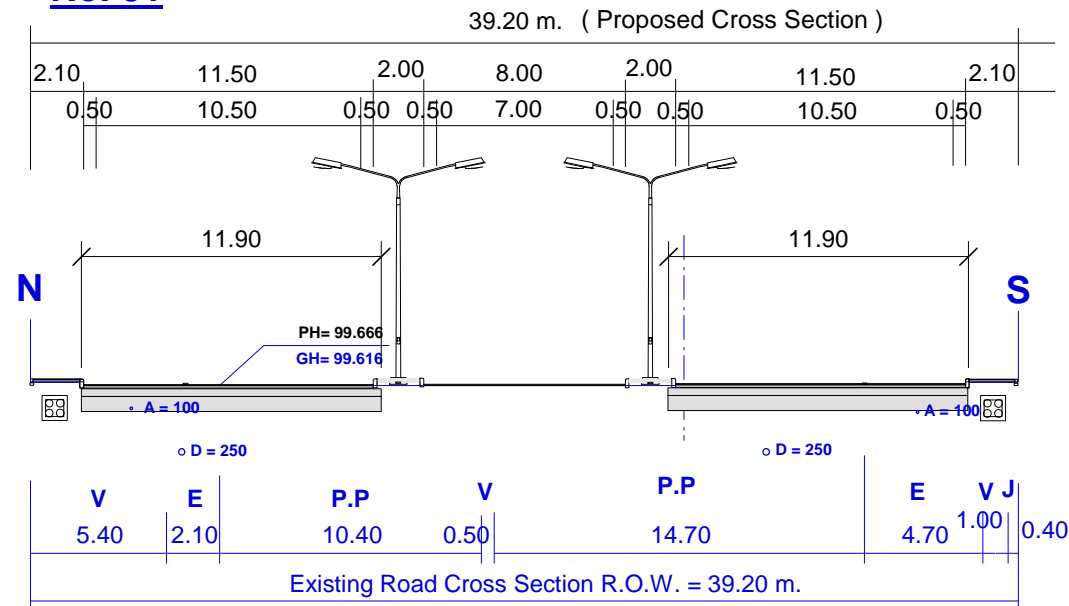
**No. 30**



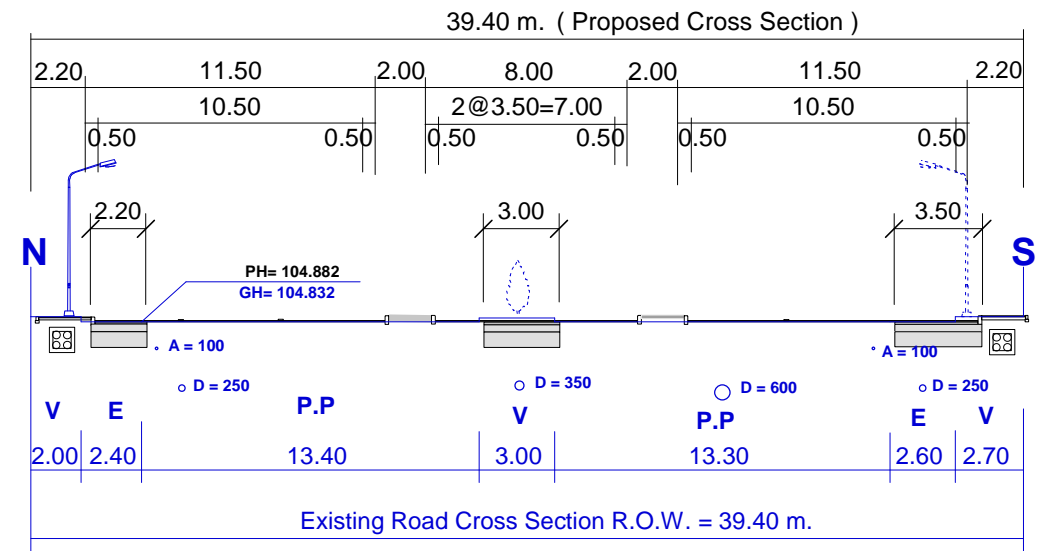
# Cross Section Design

## Av. Venezuela - Av. Arica (9 / 11)

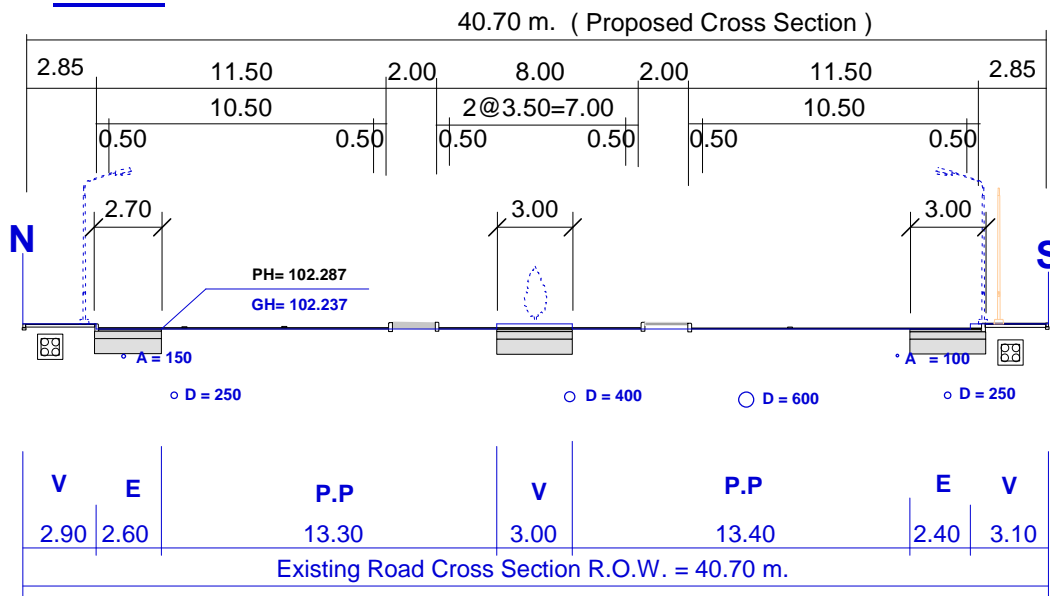
**No. 31**



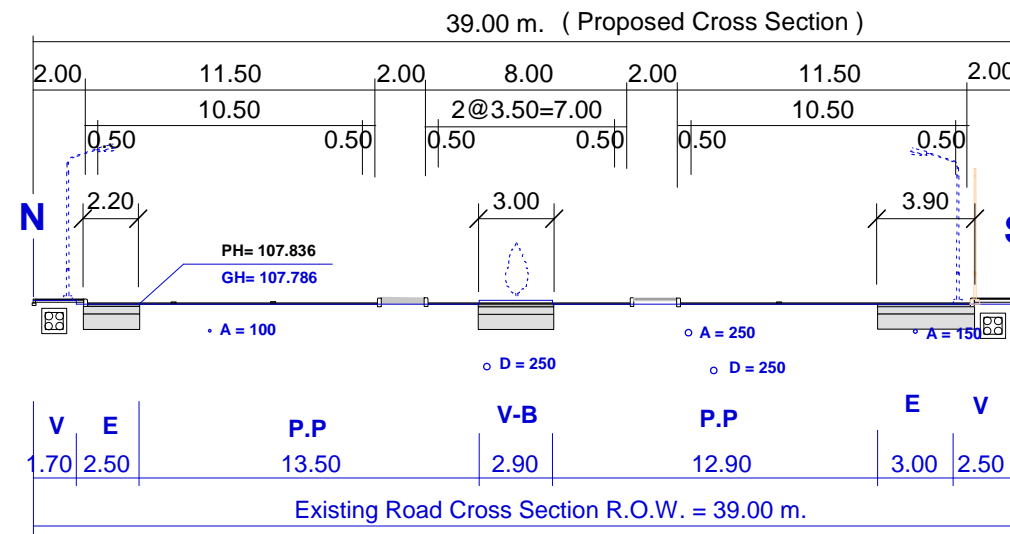
**No. 33**



**No. 32**



**No. 34**



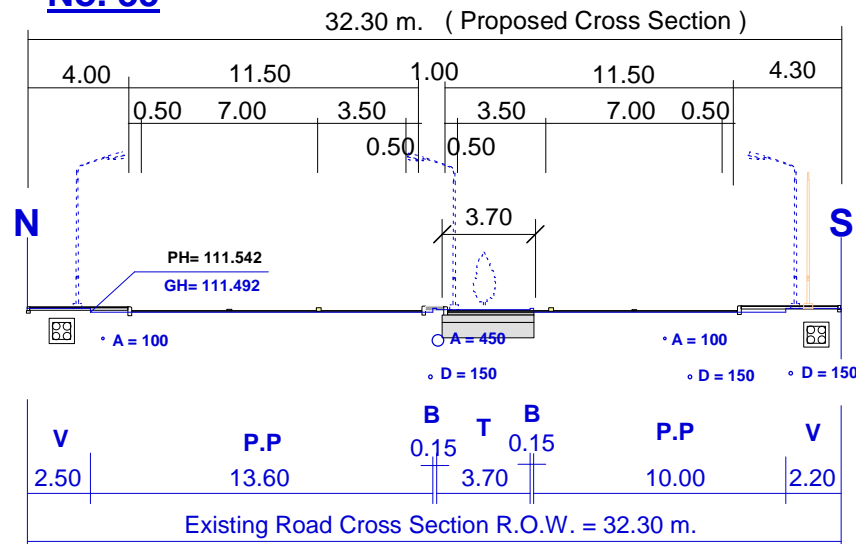
A : Agua  
D : Desague  
G : Gas

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

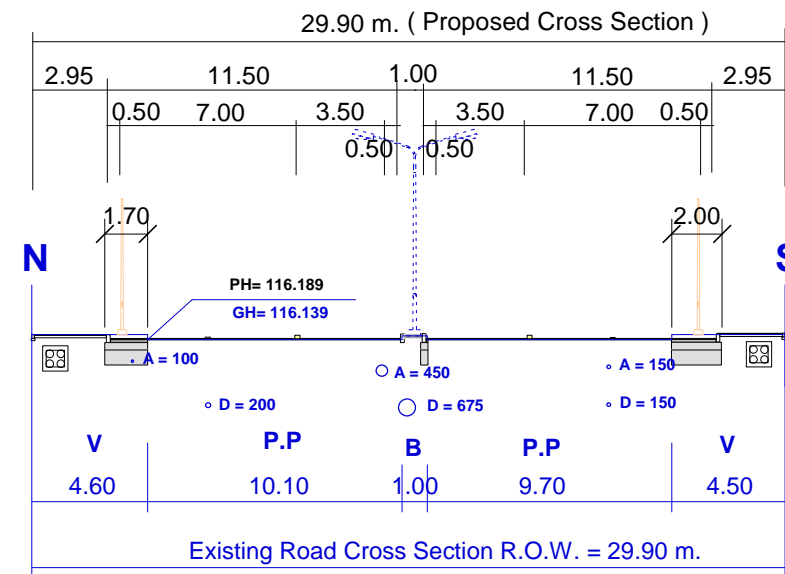
# Cross Section Design

## Av. Venezuela - Av. Arica (10 / 11)

**No. 35**



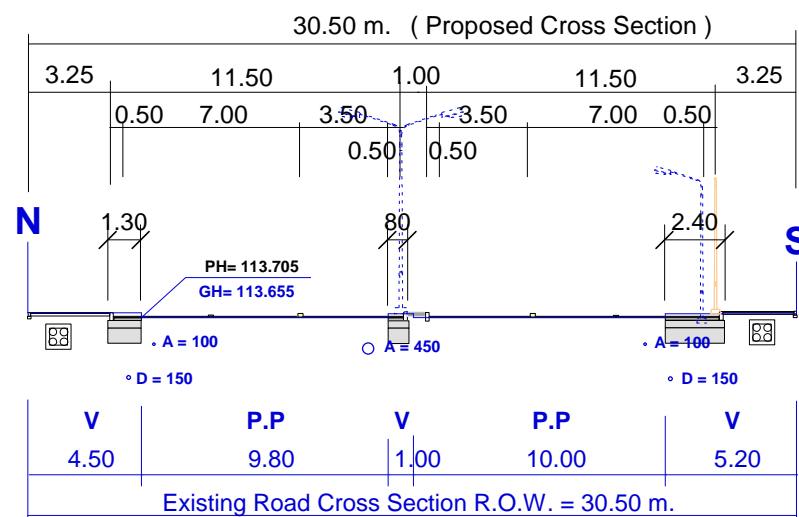
**No. 37**



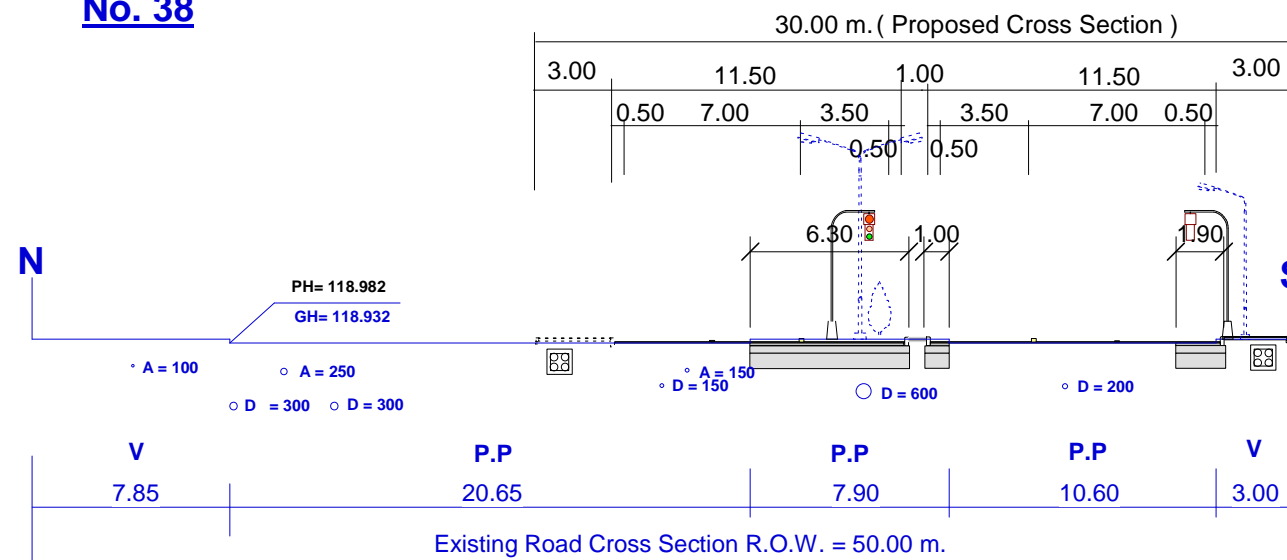
A : Agua  
D : Desague  
G : Gas

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

**No. 36**



**No. 38**

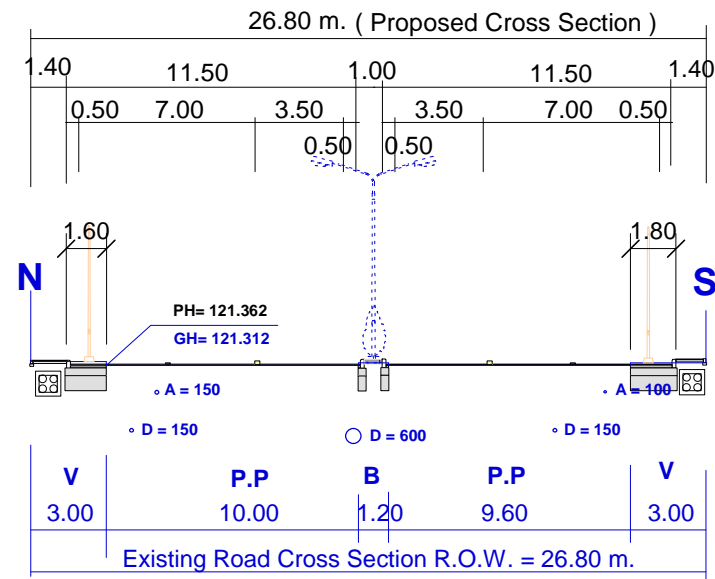




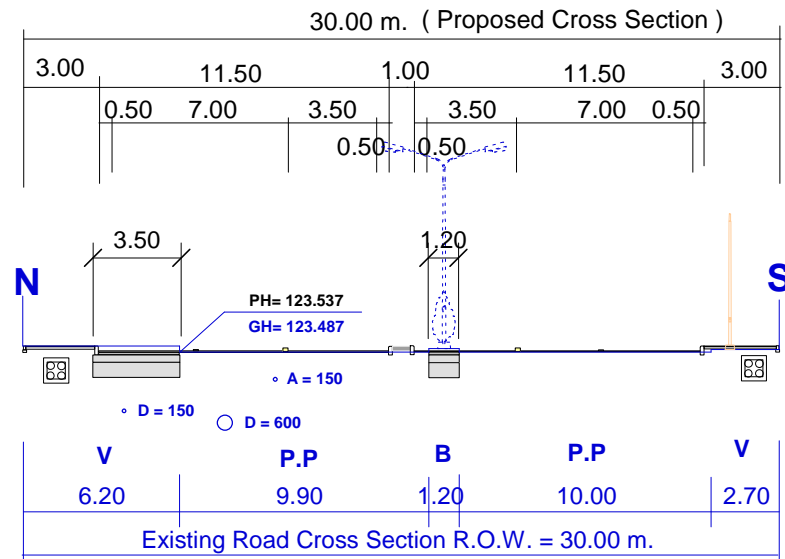
# Cross Section Design

## Av. Venezuela - Av. Arica (11 / 11)

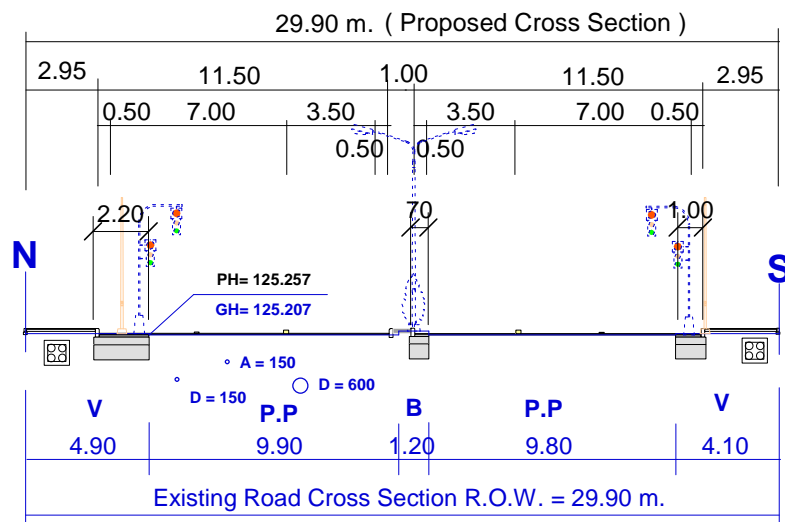
**No. 39**



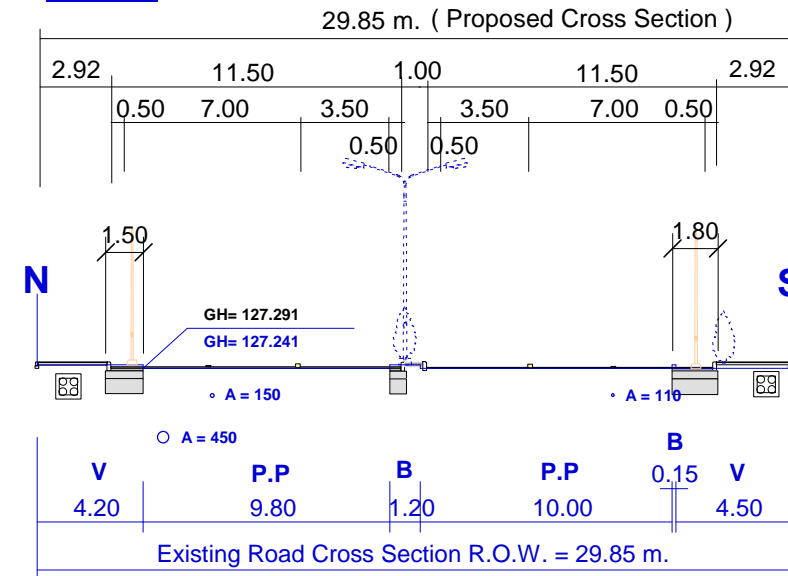
**No. 40**



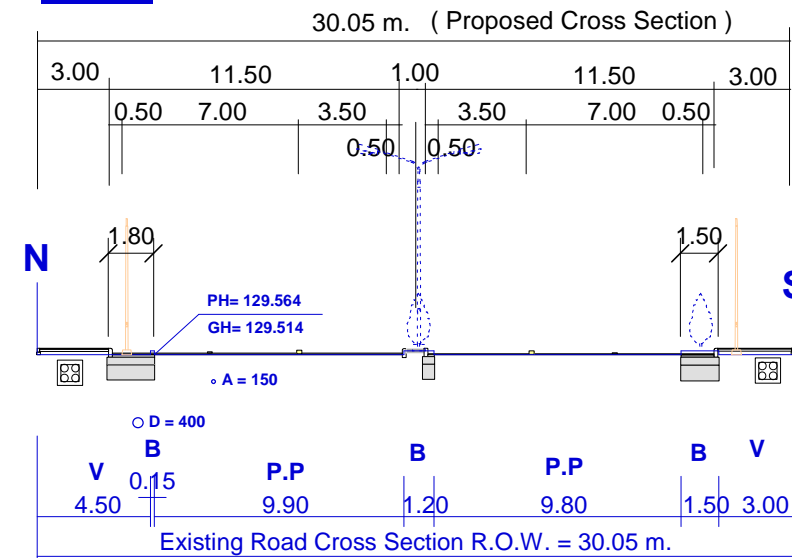
**No. 41**



**No. 42**



**No. 43**



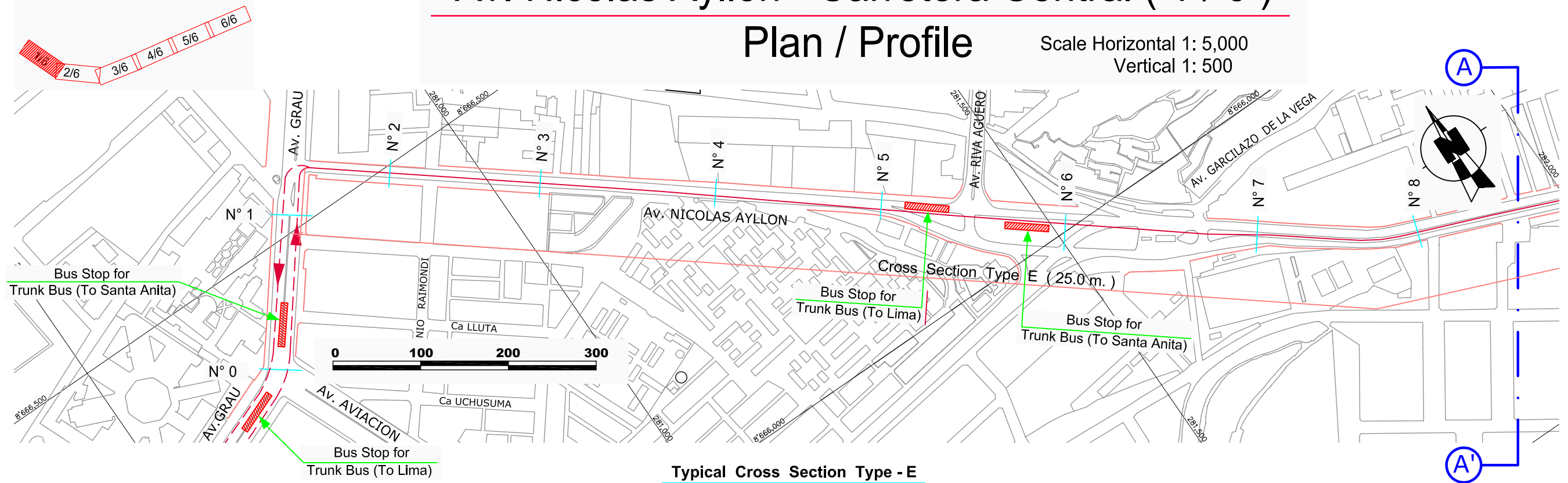
A : Agua  
D : Desague  
G : Gas

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

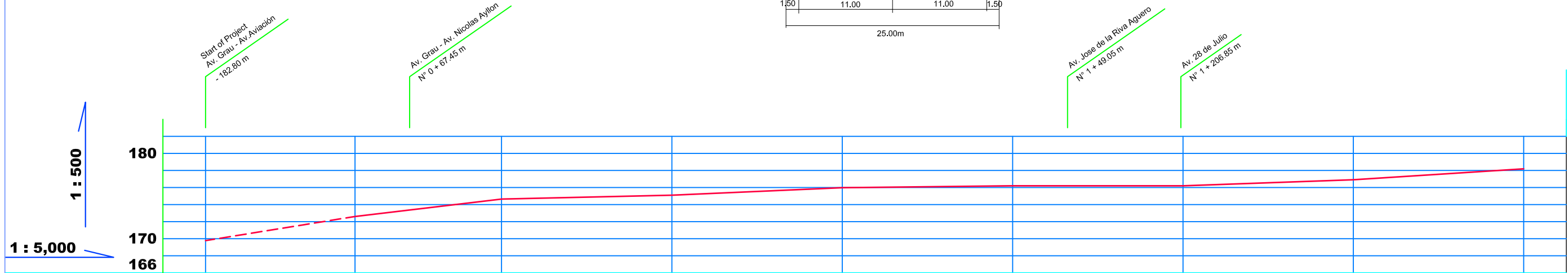
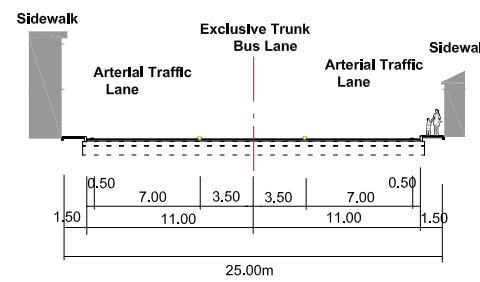
# Av. Nicolas Ayllon - Carretera Central ( 1 / 6 )

## Plan / Profile

Scale Horizontal 1: 5,000  
Vertical 1: 500



### Typical Cross Section Type - E



Gradient	Proposed Height	Ground Level	Distance	Number
		-169.776		N° 0(BM)
		-172.604	-175.50	N° 01
		-174.640	-347.50	N° 02
		-175.105	-647.50	N° 03
		-176.077	-747.50	N° 04
		-176.199	-947.50	N° 05
		-176.304	-1147.50	N° 06
		-176.906	-1347.50	N° 07
		-178.193	-1574.50	N° 08

Station N° 00 to N° 08  
Av. Nicolas Ayllon - Carretera Central  
Plan / Profile

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

JAPAN INTERNATIONAL  
COOPERATION AGENCY  
( JICA )

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

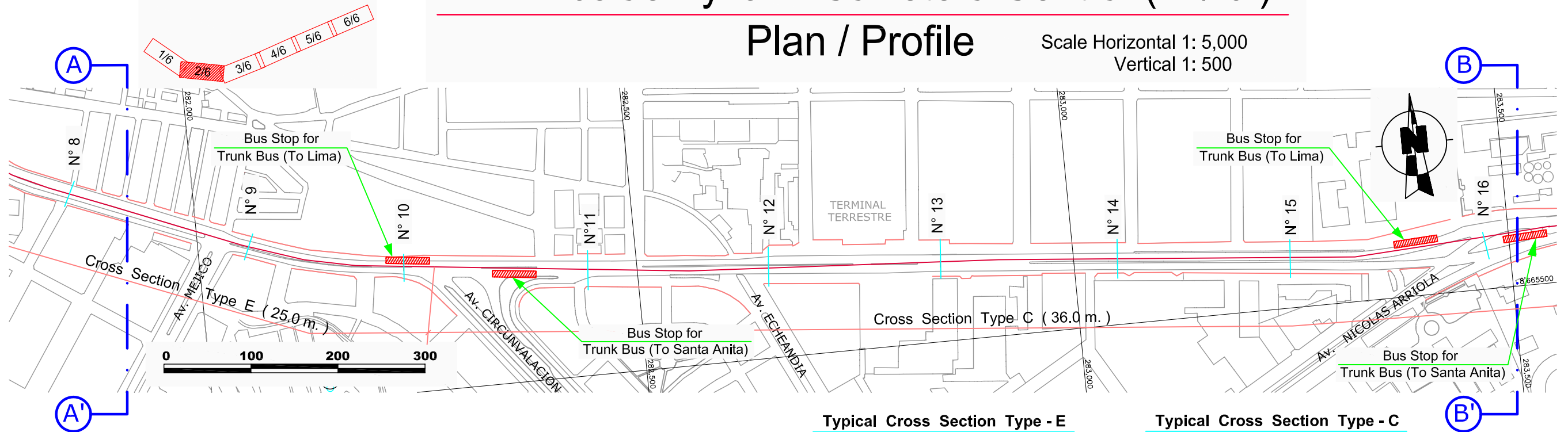
SCALE : H = 1 : 5,000 V = 1 : 500

DWG N°: 23 / 80

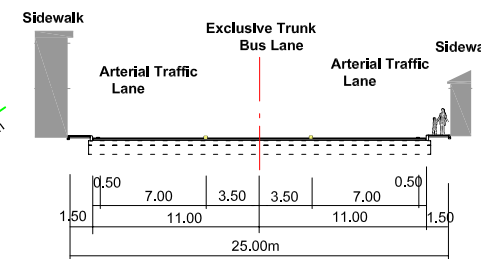
# Av. Nicolas Ayllon - Carretera Central ( 2 / 6 )

## Plan / Profile

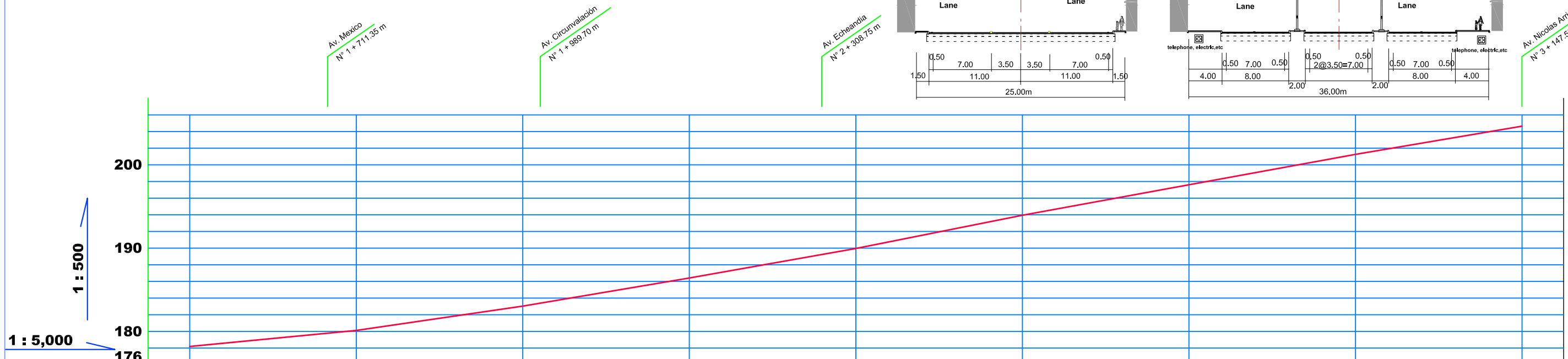
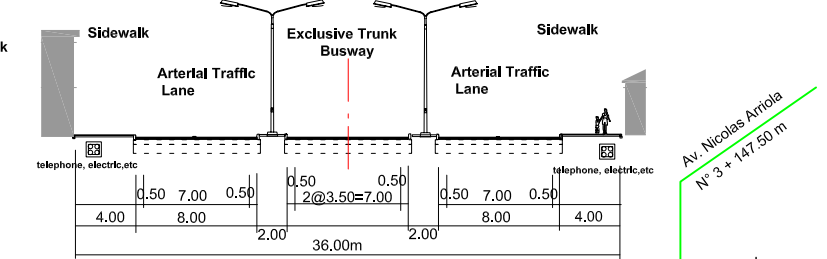
Scale Horizontal 1: 5,000  
Vertical 1: 500



Typical Cross Section Type - E



Typical Cross Section Type - C



Gradient	Proposed Height	Ground Level	Distance	Number
$\nabla 0.96\%$ $L=200.0\text{ m}$	1547.50+178.193+178.293+176.293	178.193+178.116+180.216+180.219	1547.50+1747.50+1947.50+1947.50	N° 08
$\nabla 1.46\%$ $L=200.0\text{ m}$	180.219+183.139+183.139	180.116+180.216+183.139+183.139	1747.50+1947.50+2147.50+2147.50	N° 09
$\nabla 1.80\%$ $L=1,200.0\text{ m}$	186.505+194.047+194.047	186.405+188.957+190.057+193.947+194.047	2147.50+2347.50+2547.50+2547.50	N° 10
	194.047+197.704+197.704	188.957+189.957+197.604+197.704	2347.50+2747.50+2747.50	N° 11
	201.360+204.743+204.743	197.604+197.604+201.260+201.360+204.643+204.743	2747.50+2947.50+2947.50+3147.50	N° 12
				N° 13
				N° 14
				N° 15
				N° 16

Station N° 08 to N° 16  
Av. Nicolas Ayllon - Carretera Central  
Plan / Profile

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

FEASIBILITY STUDY ON URBAN TRANSPORTATION IN THE LIMA AND CALLAO METROPOLITAN AREA IN THE REPUBLIC OF PERU  
SCALE : H = 1 : 5,000 V = 1 : 500  
DWG N°: 24 / 80