

Z1
1 ZAPATA

Aceros Verticales 403/2" @0.37
Aceros Horizontales 403/2" @0.37

The diagram shows a square reinforcement layout for Z1. It consists of a 3x3 grid of rectangular bars. The overall width and height are both labeled as 1.20. The bars are spaced at 0.37m intervals. The layout is labeled 'UBICACION A1' at the bottom.

UBICACION
A1

PLANTA CIMENTACION 0.0

COLUMNAS CERRAMIENTO					
NIVEL					
CORTE A-a Total 34 Estacas					
H=0.00 → ↑					
TIPO	C1				
No.	UBICACIÓN			SECCIÓN A B	
1	A1				0.25 0.25

Mrc	TIPO	Ø	No.	DIMENSIONES						LONG. Desar. (m)	No. Var.	Observ.
				a	b	c	d	g				
MARCAS 300												
Marca 300												
301	G	1/2"	6	4.09	0.15	0.15	-	-	-	4.39	3	-
302	O	3/8"	34	0.19	0.19	-	-	-	0.03	0.82	3	-
RESUMEN DE MATERIALES												
Ø	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-3/4"	2-1/4"	
W (Kg/m)	0.56	0.994	1.552	2.235	3.042	3.973	5.06	6.404	7.907	11.38	20.24	
L (m)	36	-	-	-	-	-	-	-	-	-	-	
PESO (Kg)	20	36	-	-	-	-	-	-	-	-	-	
-- Wrc (Kg) = 56	--								Ø	3/8"	1/2"	
HORMIGON Fc = 210 Kg/cm ²	--								PESO TOTAL	W (Kg/m)	0.56	0.994
ACERO fy = 4200 Kg/cm ²	--								Total Columnas	L (m)	2016	2016
	--								5und	PESO (Kg)	1128.96	2019.3

Mc	TIPO	Ø	No.	DIMENSIONES					LONG. Desar. (m)	No. Var.	Observ.
				a	b	c	d	g			
MARCAS 100											
Marca 100											
101	C	1/2"	8	1.12	0.15	-	-	-	1.42	1	-
RESUMEN DE MATERIALES											
Ø	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-3/4"	2-1/4"
W (Kg/m)	0.56	0.994	1.552	2.235	3.042	3.973	5.06	6.404	7.907	11.38	20.24
L (m)	-	12	-	-	-	-	-	-	-	-	-
PESO (Kg)	-	12	-	-	-	-	-	-	-	-	-
Wrot (Kg) =	12	--	--	--	--	--	--	Ø	1/2"	--	--
HORMIGON Fc = 210 Kg/cm2	--	--	--	--	--	--	--	PESO TOTAL	W (Kg/m)	0.994	--
ACERO fy = 4200 Kg/cm2	--	--	--	--	--	--	--	Total Zapatas	L (m)	672	--
--	--	--	--	--	--	--	--	56und	PESO (Kg)	668	--

The drawing illustrates the structural design of a bridge, specifically focusing on the distribution of reinforcement and the layout of the bridge deck. It consists of four vertical sections (V-1, V-2, V-3, V-4) and their corresponding longitudinal sections (CORTE a-a).

Vertical Sections (V-1, V-2, V-3, V-4):

- V-1:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 172.00 meters. The reinforcement is specified as 201/2" Mc238 L=5.00 and 201/2" Mc212 L=4.39.
- V-2:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 214.00 meters. The reinforcement is specified as 201/2" Mc208 L=4.58 and 201/2" Mc204 L=5.46.
- V-3:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 40.00 meters. The reinforcement is specified as 201/2" Mc235 L=5.74 and 201/2" Mc234 L=2.28.
- V-4:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 152.00 meters. The reinforcement is specified as 201/2" Mc228 L=4.38 and 201/2" Mc212 L=4.39.

Longitudinal Sections (CORTE a-a):

- CORTE a-a:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 172.00 meters. The reinforcement is specified as 201/2" Mc238 L=5.00 and 201/2" Mc212 L=4.39.
- CORTE a-a:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 214.00 meters. The reinforcement is specified as 201/2" Mc208 L=4.58 and 201/2" Mc204 L=5.46.
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- CORTE a-a:** Shows the bridge deck at the left abutment (Eje Izq) at level N+0.00. It details the reinforcement layout for the deck and the supporting structure. The deck is supported by 20 piers (Estrisos) and has a total length of 152.00 meters. The reinforcement is specified as 201/2" Mc228 L=4.38 and 201/2" Mc212 L=4.39.



NOMBRE: DISEÑO MURO DE CERRAMIENTO

LOCALIZACIÓN: Calle 16 careras 16A y 17

CÁLCULO ESTRUCTURAL

TARZO AMAYA V
Ing. Civil
Mat. Prof: 08202 - 31746 Atlántico

CONTIENE

DETALLE MURO DE CERRAMIENTO

ESCALA

1:50

FECHA ELABORACIÓN

SEPT. 2024

Vo.Bo. PLANEACIÓN

Secretaría de Planeación Municipal

CONVENCIONES

- La Resistencia última del Concreto a la Compresión es de 210kg/cm^2 los 28 días de curado ($3,000\text{psi}$), a menos que se especifique lo Contrario.
- La Resistencia a Tracción del Acero Estructural, es de $4,200\text{kg/cm}^2$. $\phi 60,000\text{psi}$, a menos que se especifique lo Contrario.
- La Longitud de los Ganchos para todas las barras es igual a 25 veces el diámetro de la Varilla, a menos que se especifique lo contrario.
- El Diámetro para los Estructos es de $3/8"$ y su Resistencia de $4,200\text{kg/cm}^2$ psi.
- La Longitud de Traslape de las Varillas es de 55 veces el diámetro mismo, a menos que se especifique lo Contrario.

OBSERVACIONES

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PLANOS ESTRUCTURALES

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