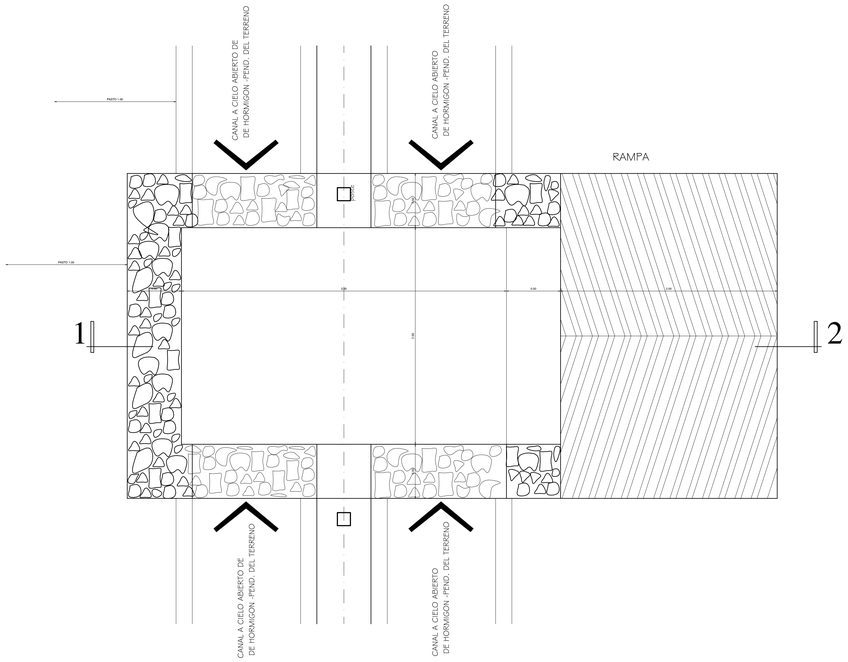
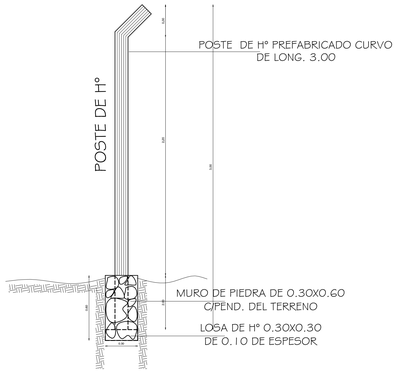
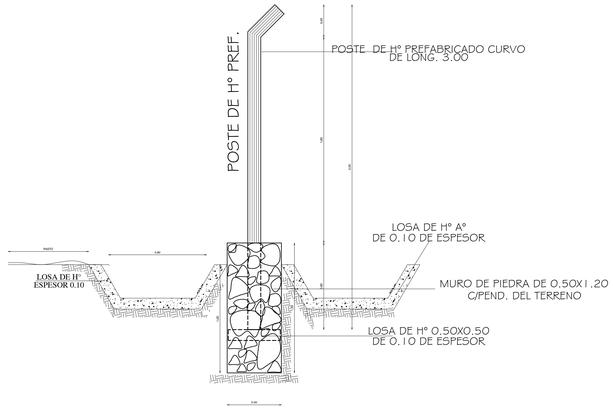


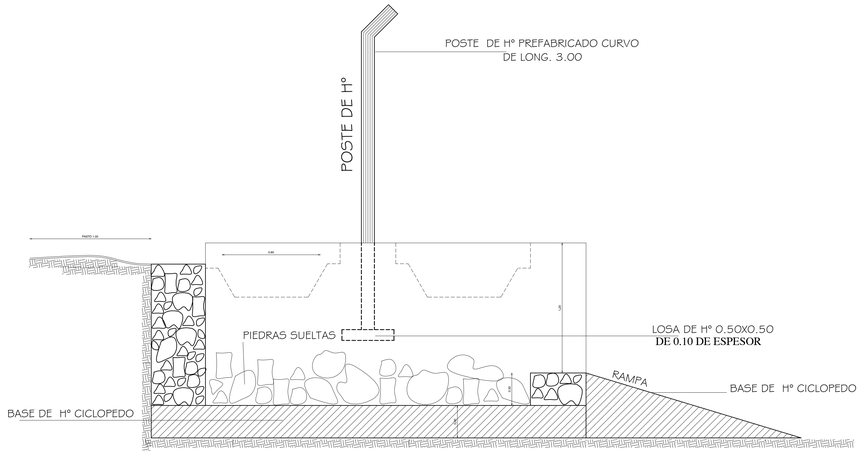
DETALLE DE BOCA DESAGUE PLUVIAL
ESC. 1/20



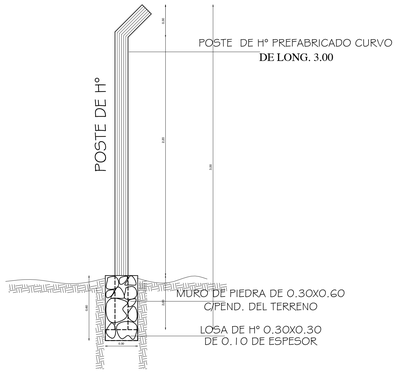
LADO -DA
DETALLE DE CERCO
ESC. 1/20



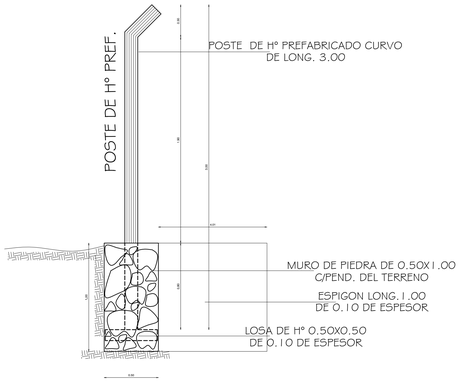
LADO BC
DETALLE DE CERCO CON CANAL A CIELO ABIERTO
ESC. 1/20



DETALLE DE BOCA DESAGUE PLUVIAL-CORTE 1-2
ESC. 1/20



LADO - CD
DETALLE DE CERCO
ESC. 1/20



LADO AB
DETALLE DE CERCO
ESC. 1/20

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

DIRECCION GENERAL DE DESARROLLO URBANO
Director Gral.: Arq. Luis Villalba

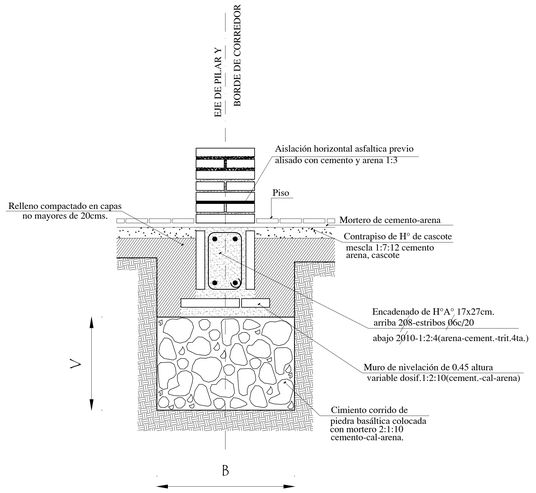
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE CERCO DETALLE DE BOCA DESAGUE PLUVIAL DETALLE DE BOCA DESAGUE PLUVIAL CON CORTES	ESCALA 1/20	Lamina Nº1

CORTE CIMENTACIÓN MAMPOSTERIA DE 0.30

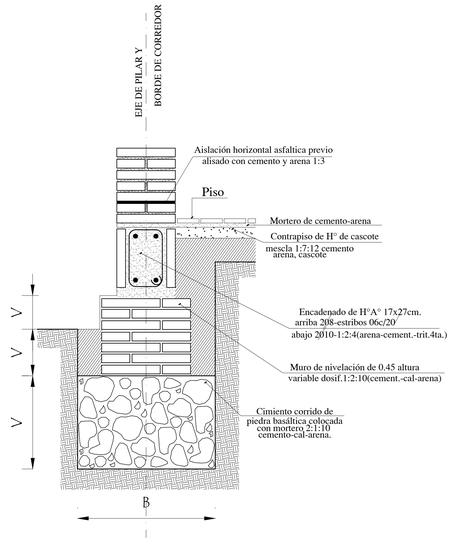
CASO NIVELACION MINIMA

ESC. 1/ 10



CASO NIVELACION GENERAL

ESC. 1/ 10

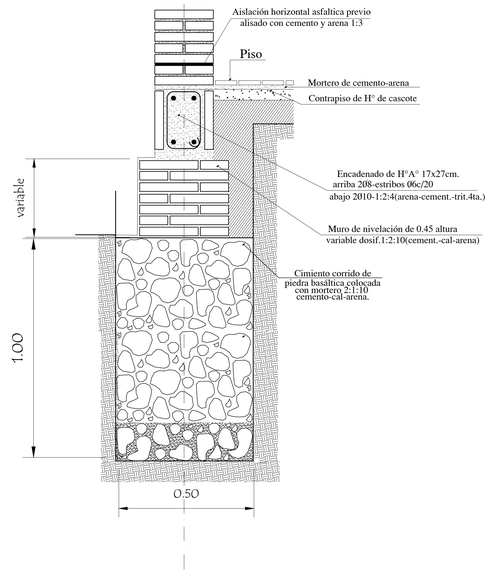


Obs.:

V = variable
B = ancho de cimentación

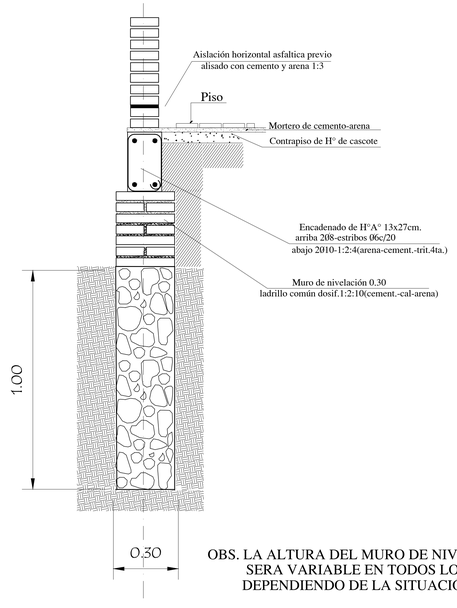
PARA PAREDES DE 0.30

ESC. 1/ 10



PARA PAREDES DE 0.15

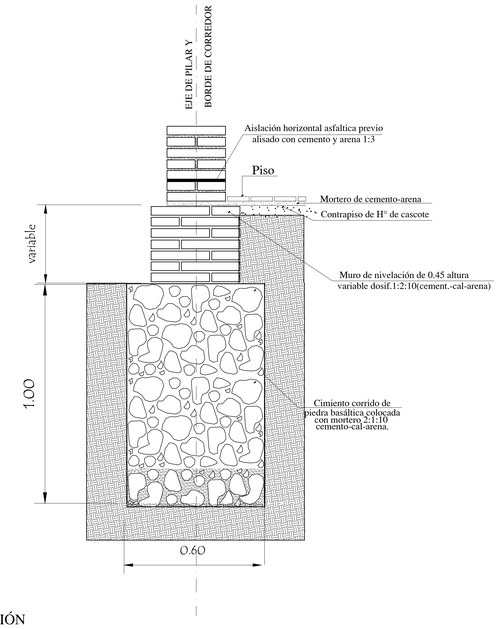
ESC. 1/ 10



OBS. LA ALTURA DEL MURO DE NIVELACIÓN
SERA VARIABLE EN TODOS LOS CASOS
DEPENDIENDO DE LA SITUACIÓN DEL TERRENO

PARA PILARES DE GALERIA 0.30 X 0.30

ESC. 1/ 10



MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

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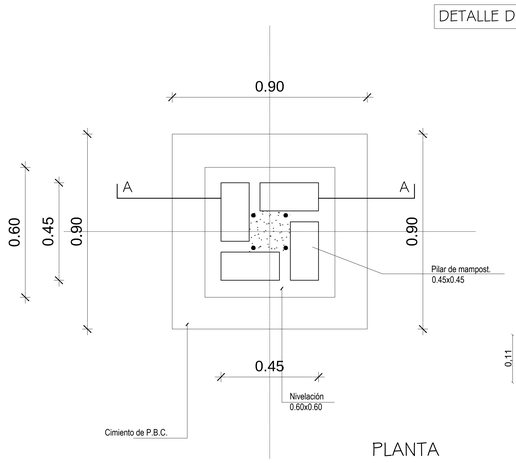
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

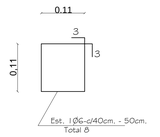
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE CIMENTACIÓN DETALLES DE NIVELACIÓN	ESCALA 1/10	Lamina Nº2

DETALLE DE PILAR 0.45X0.45M DE MAMPOSTERIA CON NUCLEO DE Hº Aº

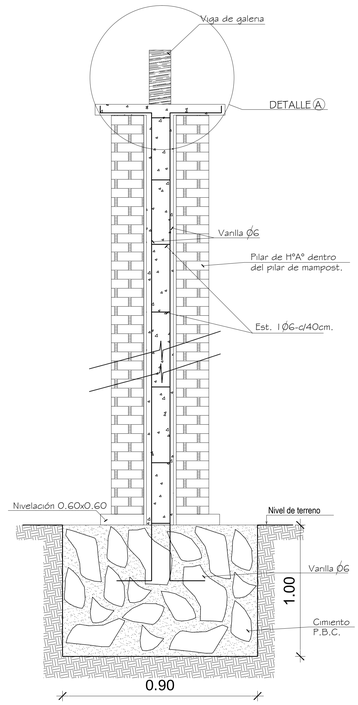
DETALLE DE PILAR CON NUCLEO DE HºAº



PLANTA
Esc. 1/10



DETALLE DE ESTRIBO
ESC. 1/5

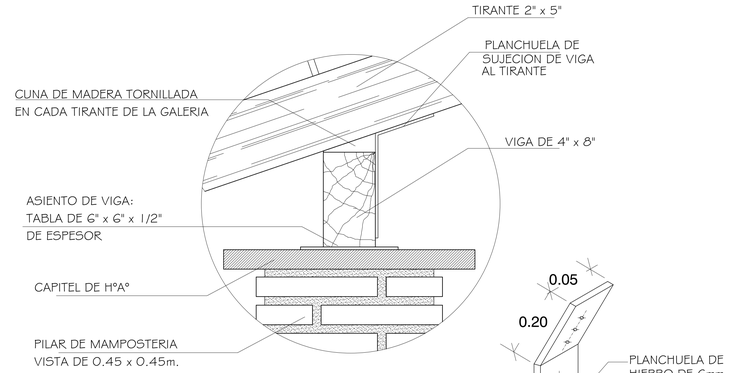


CORTE A - A
Esc. 1/10

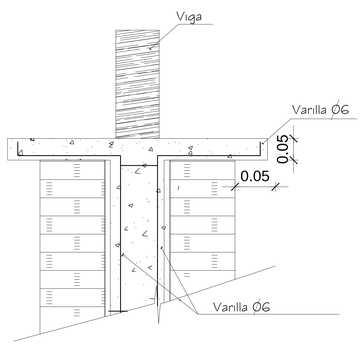
Obs.: Para todas las aulas en los apoyos de los tirantes sobre las vigas de galerias, dichos tirantes deberán encuñarse, con cuñas de madera tornilladas y planchuela según detalle, cada tirante intermedio

DETALLE DE CUÑA DE MADERA PARA MADERAMEN

DETALLE Ⓐ
Esc. 1:10

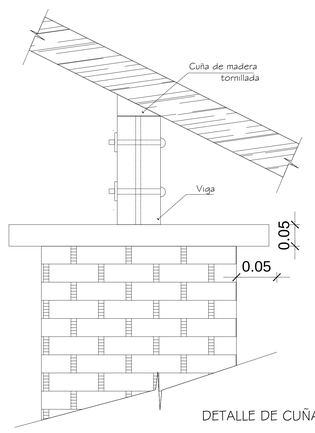


DETALLE Ⓐ



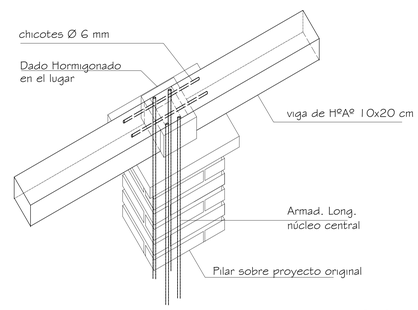
DETALLE DE CAPITEL
ESC. 1/10

DETALLE Ⓐ



DETALLE DE CUÑA DE MADERA
ESC. 1/10

UNIÓN 2 VIGAS DE MADERA SOBRE PILAR DE 0.45x 0.45m CON NÚCLEO DE Hº Aº



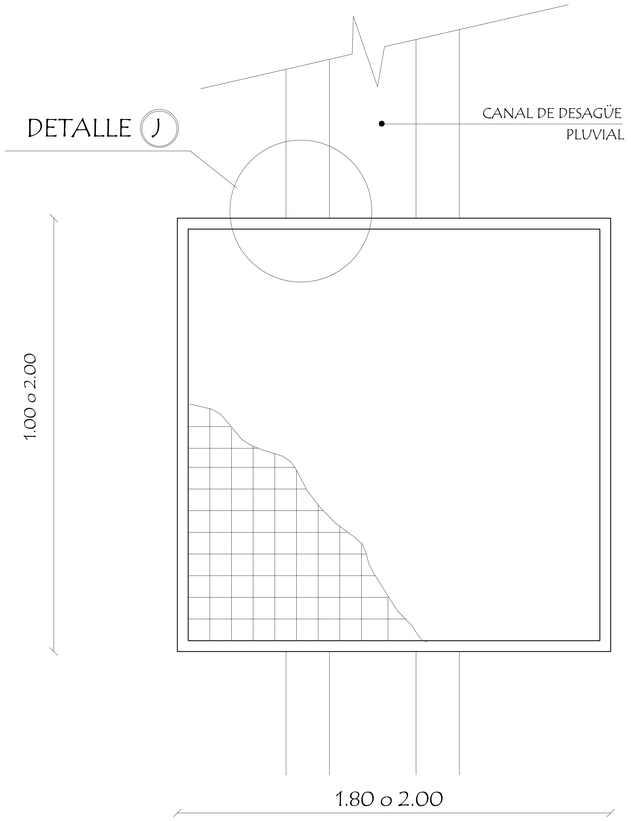
AXONOMETRÍA
Esc. 1/10

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

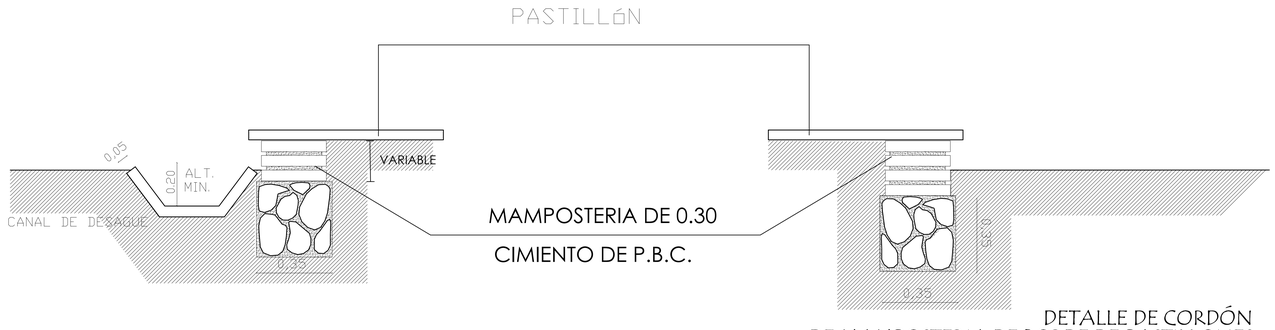
DIRECCION GENERAL DE DESARROLLO URBANO
Director Gral.: Arq. Luis Villalba

PROYECTO "FONACIDE"
LÁMINAS GENERALES.

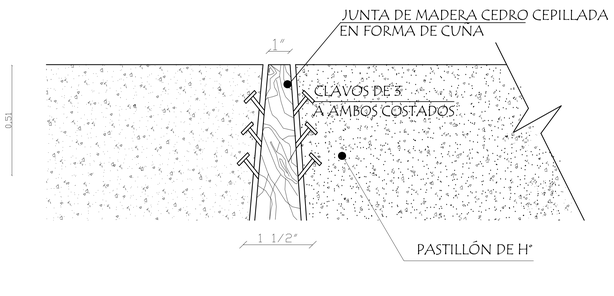
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERO DE EDUCACIÓN Y CULTURA.	
DETALLES DE PILAR 0.45 X 0.45m CON NÚCLEO DE HºAº DETALLES DE CUÑA	ESCALA 1/10 ESCALA 1/5	Lamina Nº3



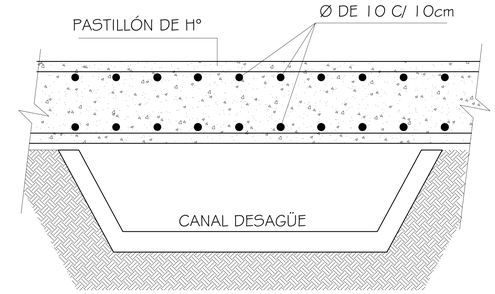
PLANTA PASTILLÓN DE H°A°
SOBRE CANAL DE DESAGÜE
ESC. 1/10



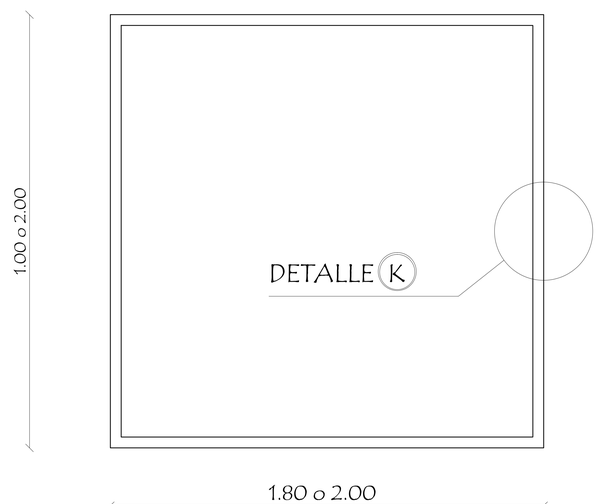
DETALLE DE CORDÓN
DE MAMPOSTERIA DE BORDE DE PASTILLONES
ESC. 1/10

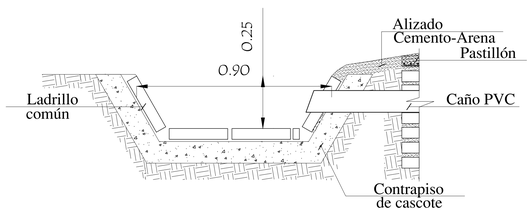


DETALLE K
ESC.1/10

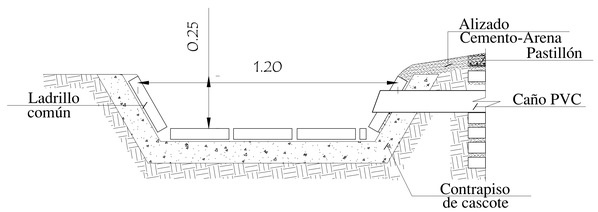


DETALLE J
ESC. 1/10

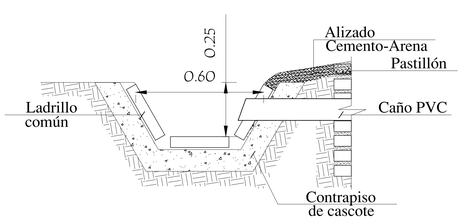




CANAL DE DESAGÜE 0.90m. DE ANCHO
Esc. 1/10



CANAL DE DESAGÜE 1.20m. DE ANCHO
Esc. 1/10



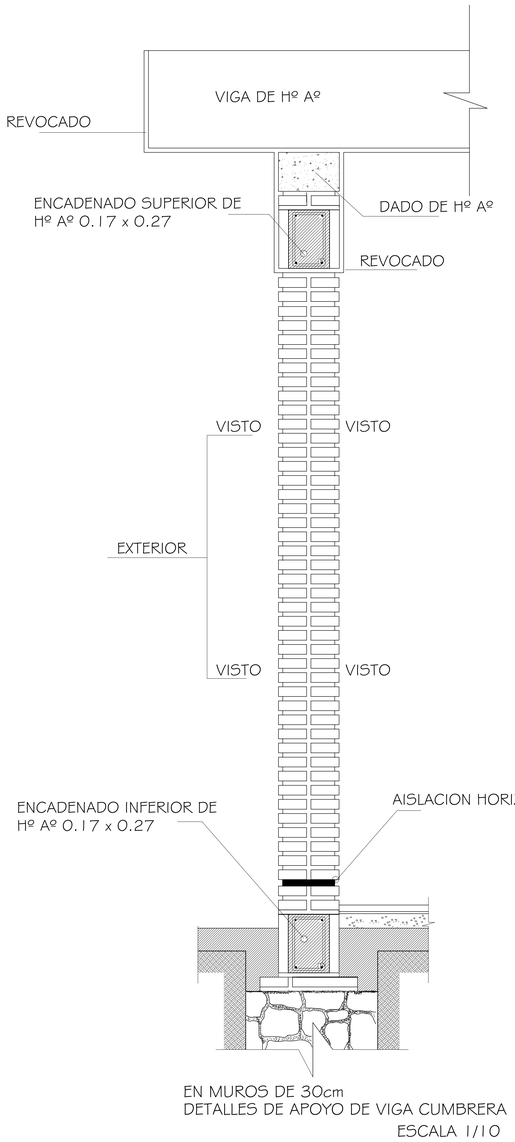
CANAL DE DESAGÜE 0.60m. DE ANCHO
Esc. 1/10

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

DIRECCION GENERAL DE DESARROLLO URBANO
Director Gral.: Arq. Luis Villalba

PROYECTO "FONACIDE"
LÁMINAS GENERALES.

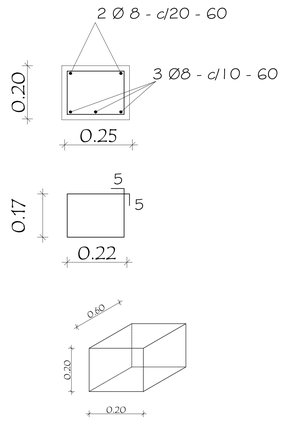
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.
DETALLES DE PASTILLONES DETALLES DE CANALES DE DESAGÜE PLUVIAL A CIELO ABIERTO	ESCALA 1/10 — Lamina Nº4

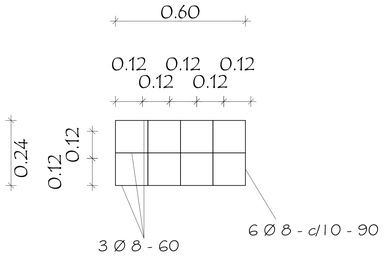


EN MUROS DE 30cm
DETALLES DE APOYO DE VIGA CUMBRERA
ESCALA 1/10

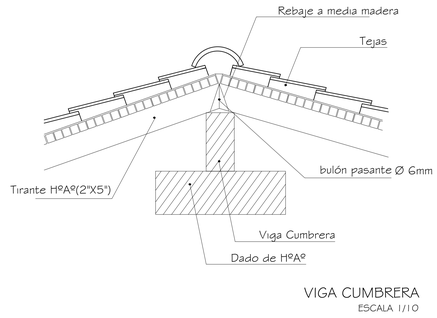
OBS.:

EN LOS CASOS DE QUE EL AULA SEA
CONSTRUIDA COMO ULTIMA DEL BLOQUE
LA PARED EXTERIOR LLEVARA LOS LADRILLOS
CON JUNTAS A LA VISTA HASTA
LA ALTURA DE TECHO, LA VIGA Y EL DADO
DE Ho. Ao. SERAN REVOCADOS.
SI EL AULA A CONSTRUIR ES ANEXA LA
PARED TRANSVERSAL SERA CON JUNTAS
A LA VISTA A AMBOS LADOS HASTA EL
ENCADENADO SUPERIOR Y REVOCADO
HASTA EL TECHO, TAMBIEN LA VIGA Y EL DADO.



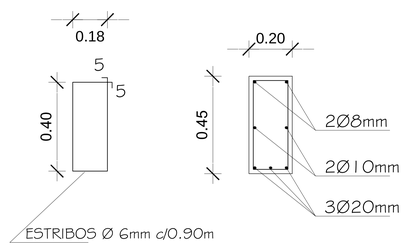


DADO DE HºAº 0.20 x 0.60m
Esc. 1/10



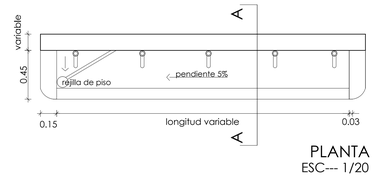
VIGA CUMBRERA
ESCALA 1/10

VIGA CUMBRERA PARA luces de hasta 8m.

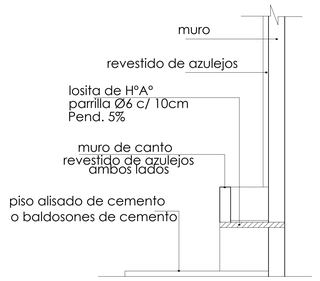


VIGA CUMBRERA DE HºAº 0.20 x 0.45m
Esc. 1/10

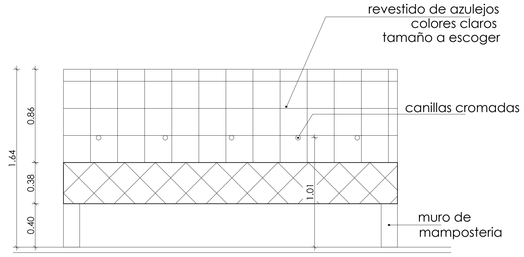
DETALLE DE BEBEDERO



PLANTA
ESC--- 1/20

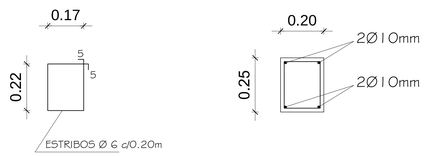


CORTE AA
ESC--- 1/20



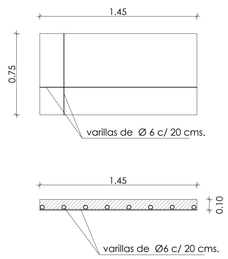
ALZADO
ESC--- 1/20

APOYO DE TIRANTES EN GALERIA



VIGA DE HºAº 0.25 x 0.20m
Esc. 1/10

DETALLE DE LOSA SOBRE PUERTA
Esc. 1/20



MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

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PROYECTO "FONACIDE"
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE

FUENTE:
MINISTERIO DE EDUCACIÓN Y CULTURA.

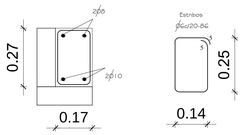
DETALLES DE APOYO DE VIGA CUMBRERA DE HºAº Y DADO DE HºAº
DETALLES DE CUÑA Y CARTEL EN PILARES CON NÚCLEO DE HºAº

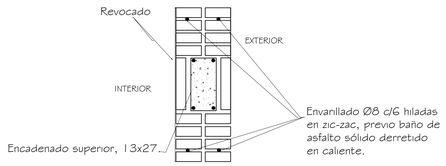
ESCALA 1/10

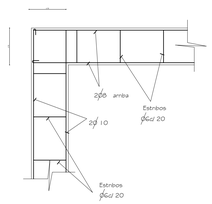
Lamina Nº5

ENCADENADOS SUPERIOR E INFERIOR DE Hº Aº

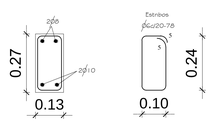
PARA MUROS DE 0.30 MEDIDAS: 0.17 X 0.27m
ESCALA 1/10

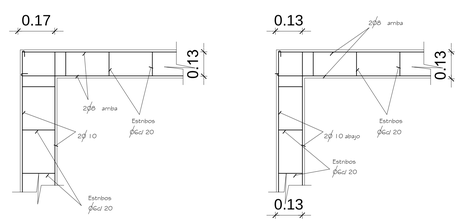






PARA MUROS DE 0.15 MEDIDAS: 0.13 X 0.27m
ESC. 1/10

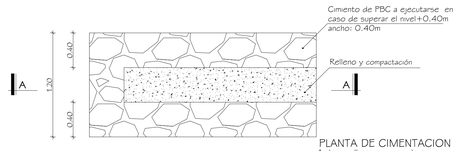




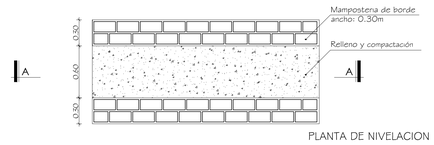
OBSERVACIÓN:

LOS ENCADENADOS (SUPERIOR E INFERIOR)
SERÁN UBICADOS RESPECTO AL EJE
DE LA MAMPOSTERIA DE NIVELACIÓN Y ELEVACIÓN

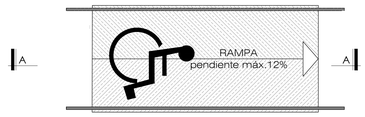
DETALLE DE RAMPAS esc 1/25



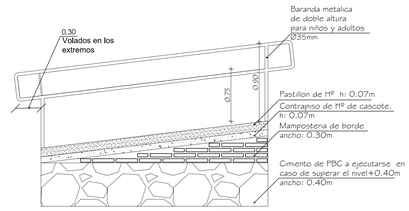
PLANTA DE CIMENTACION
A desarrollarse en caso de superar un nivel de +0.40m



PLANTA DE NIVELACION



PLANTA

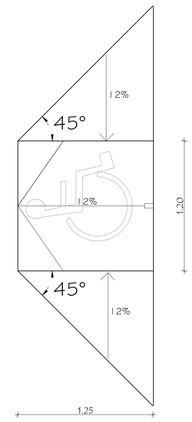


CORTE A A´

OBSERVACIONES TECNICAS

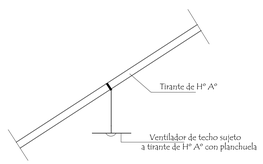
1. Barandal a dos alturas 0.75 cm. y 0,90 cm., de 35 mm. de diámetro.
2. Cambio de textura o pavimento.
3. Terminación de barandal en forma redondeada.
4. Señalamiento en piso del símbolo internacional de accesibilidad de personas con discapacidad. Símbolo de la figura y su contorno con pintura epóxica color amarillo tránsito
5. Pendiente maxima 12%
6. Ancho mínimo de 1.20m.
7.Cuando la longitud de la rampa supera los 1,50 m. llevará por lo menos una baranda o pasamanos. Estos serán continuos en toda la extensión de su desarrollo prolongándose sobre cada llegada o descanso 0,30 m en forma redondeada.

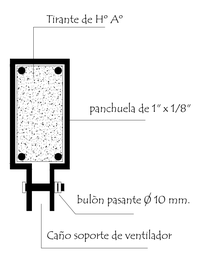
DETALLE DE RAMPAS EN VEREDA
Esc 1/20



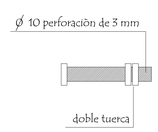
Ubicación de ventilador

Planchuela de Sujeciòn
de Ventilador a Tirante de Hº Aº





Detalle de planchuela



Detalle de bulòn

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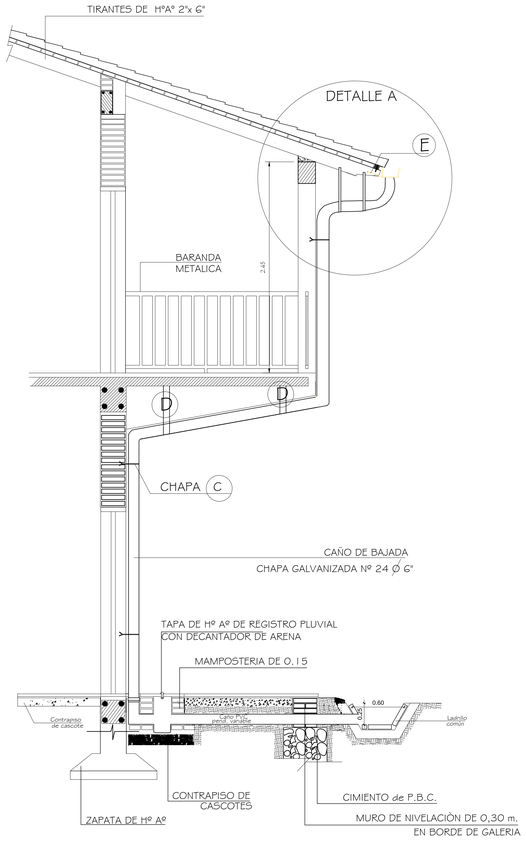
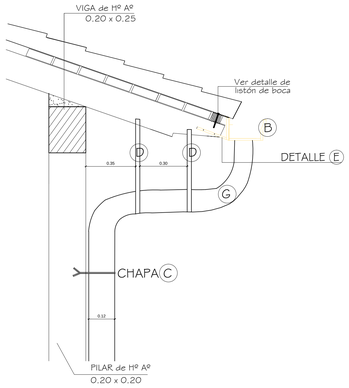
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

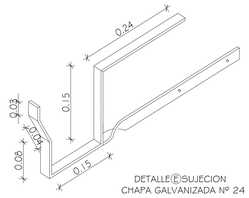
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ENCADENADO SUPERIOR E INFERIOR	ESCALA 1/10	Lamina Nº6



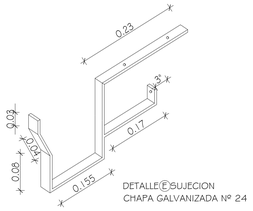
DETALLE DE DESAGÜE PLUVIAL EN DOS PLANTAS
Esc. 1/25



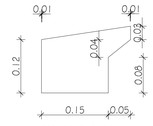
DETALLE A
Esc. 1/10



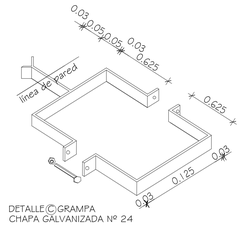
DETALLE Ⓟ SUJECION
CHAPA GALVANIZADA Nº 24



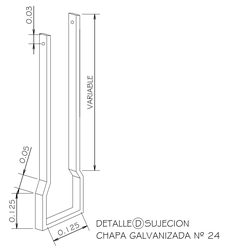
DETALLE Ⓕ SUJECION
CHAPA GALVANIZADA Nº 24



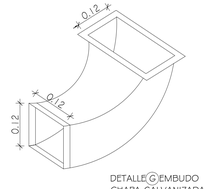
DETALLE Ⓑ CANALETA
CHAPA GALVANIZADA Nº 24



DETALLE Ⓒ GRAMPA
CHAPA GALVANIZADA Nº 24



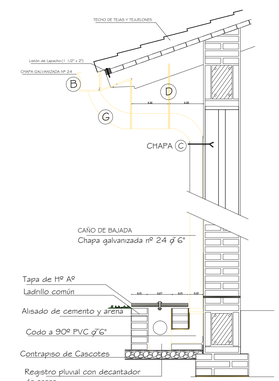
DETALLE Ⓓ SUJECION
CHAPA GALVANIZADA Nº 24



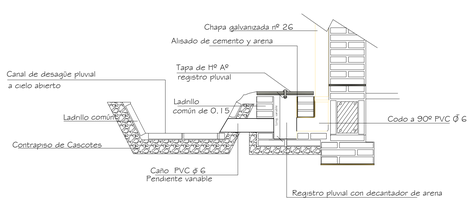
DETALLE Ⓖ EMBUDO
CHAPA GALVANIZADA Nº 24

OBSERVACION

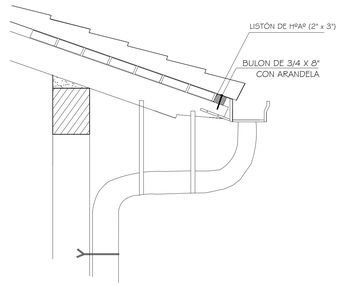
LOS GANCHOS DE SUJECION DE CANALETA QUE VAN EN LOS TIRANTES SUJETOS A LAS CORREAS,- SE COLOCARAN ANTES DEL ENTERJADO c/ 0,90 cm. EN LOS PUNTOS DEL EMBUDOS SE REFORZARAN CON UNO A CADA LADO. LOS EMBUDOS BAJAN CENTRADO AL EJE DE LOS TIRANTES Y PILARES.



DETALLE DE DESAGÜE PLUVIAL
EN UNA PLANTA
Esc. 1/20

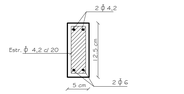


DETALLE DE REGISTRO PLUVIAL
CON CONEXIÓN AL CANAL A CIELO ABIERTO
Esc. 1/20



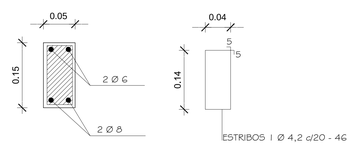
DETALLE DE LISTÓN DE BOCA
Esc. 1/10

TIRANTE DE Hº Aº DE 2"x5"



SECCIÓN TRANSVERSAL
Esc. 1/5

TIRANTE DE Hº Aº DE 2"xG"



SECCIÓN TRANSVERSAL
Esc. 1/5

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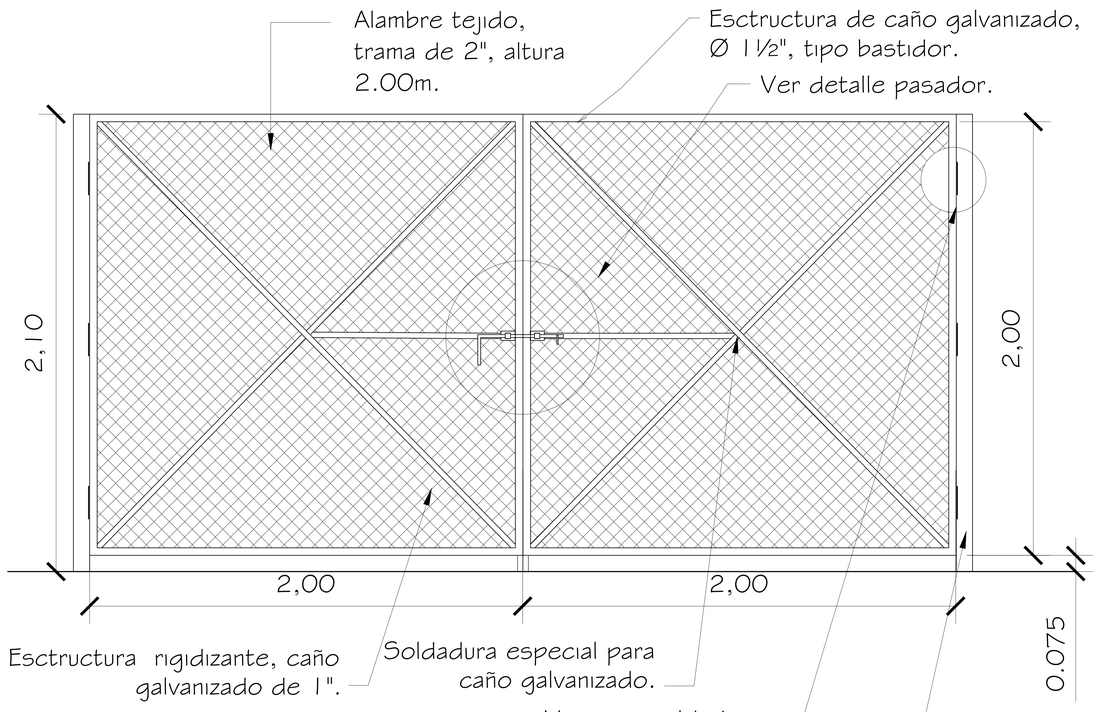
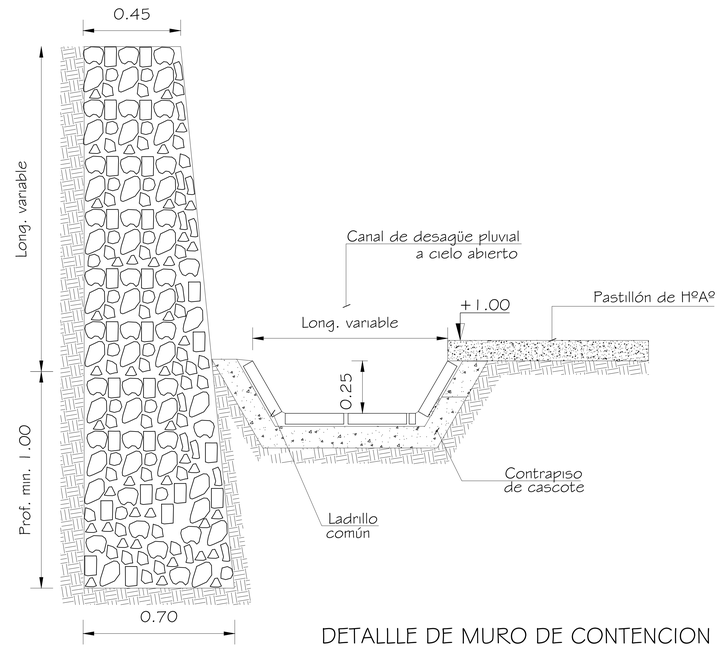
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.
DETALLES DE CANALETAS Y CAÑOS DE BAJADA DETALLES DE CANALETAS Y CAÑOS DE BAJADA CON CONEXIÓN AL CANAL AL AIRE LIBRE DETALLES DE TIRANTES DE 2PAR Y LISTÓN DE BOCA DE 2P AP	ESCALA 1:5 ESCALA 1/10 ESCALA 1:20 ESCALA 1:25 — Lamina Nº7

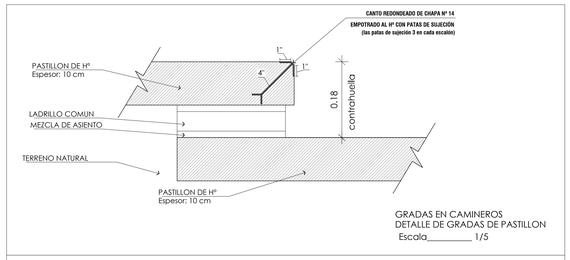


PORTÓN DE ACCESO VEHICULAR
4.00 x 2.00
Esc: ——— 1/10

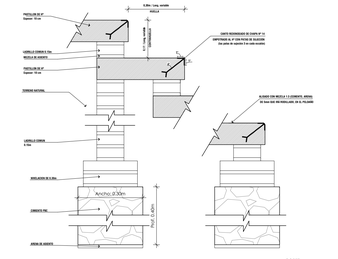
DETALLE DE PASADOR



DETALLLE DE MURO DE CONTENCION
Esc. 1/10



GRADAS EN CAMINEROS
DETALLE DE GRADAS DE PASTILLON
Escala_____ 1/5



CORTE
DETALLE DE GRADAS DE PASTILLON
Escala_____ 1/10

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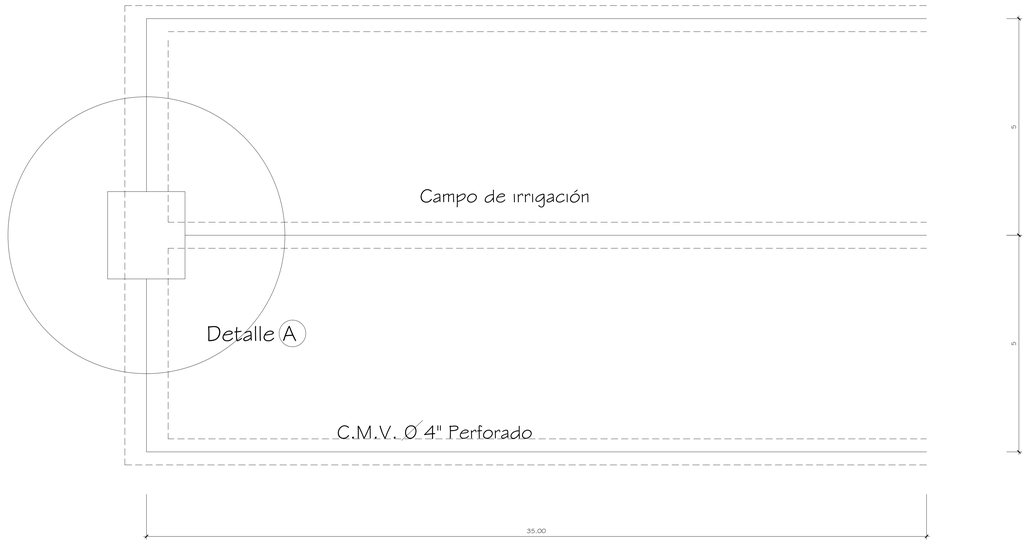
LÁMINAS GENERALES.

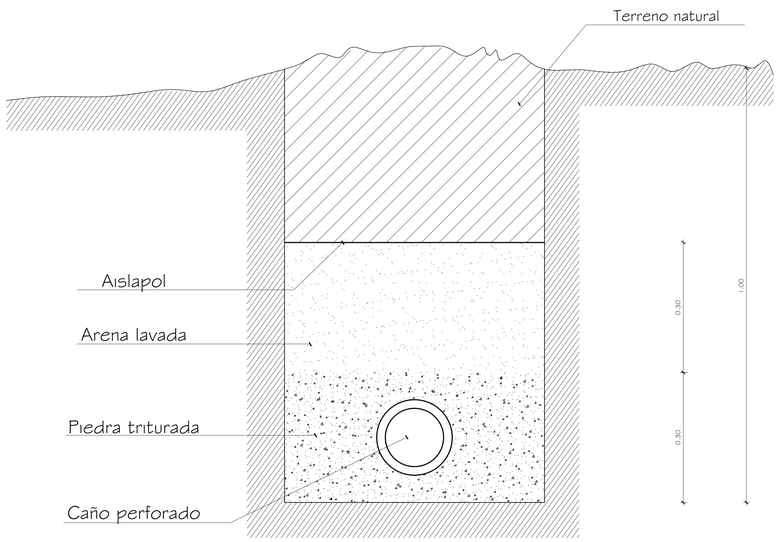
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE PORTÓN DE ACCESO / DET. DE GRADAS DE PASTILLON DE Hº DETALLES DE MURO DE CONTENCIÓN CON CANAL A CIELO ABIERTO	ESCALA 1/10	Lamina Nº8

DETALLE DE CAMPO DE IRRIGACION



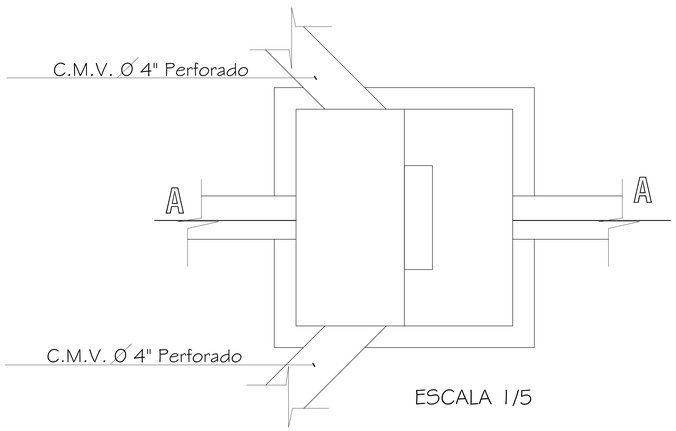
PLANTA
ESCALA 1/50

Detalle A



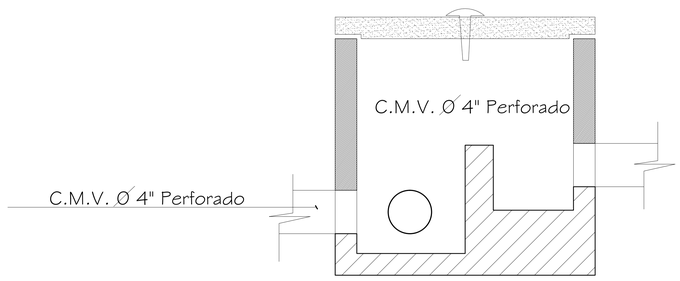
ESCALA 1/5

CAMARA DE DISTRIBUCION 0.60x0.60



ESCALA 1/5

CORTE A - A



ESCALA 1/5

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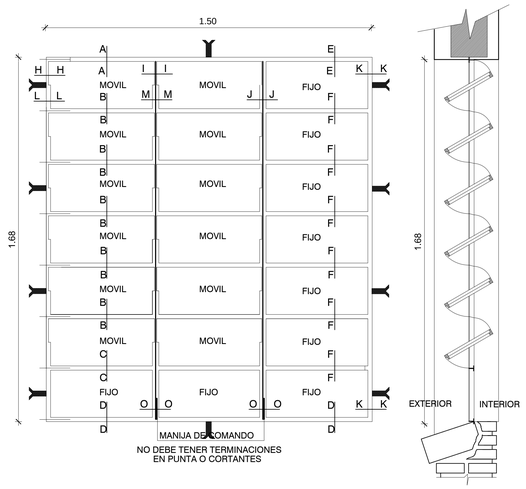
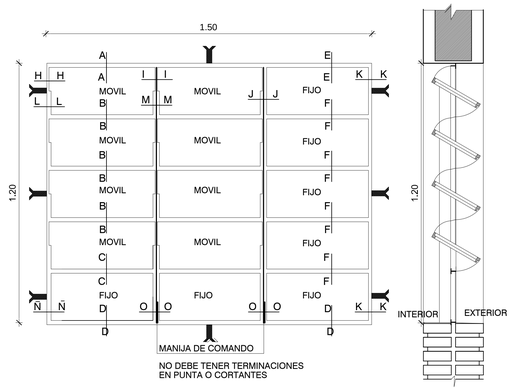
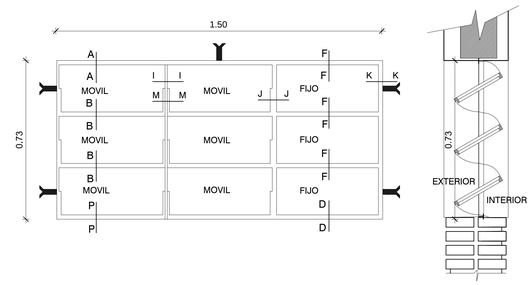
DETALLE DE CAMPO DE IRRIGACIÓN	ESCALA 1/50 ESCALA 1/10	Lamina Nº9



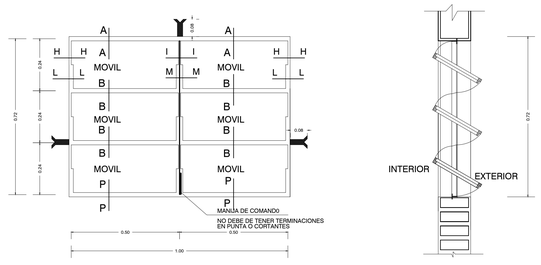
VENTANA BALANCIN TIPO: 1.50 X 1.68m
ESC. 1/10



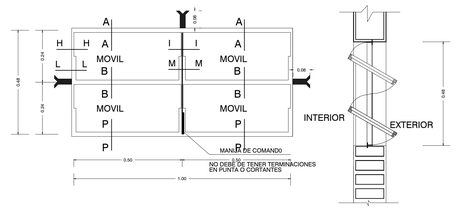
VENTANA BALANCIN TIPO: 1.50 X 1.20m
ESC. 1/10



VENTANA BALANCIN TIPO: 1.50 X 0.73m
ESC. 1/10

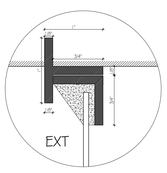


VENTANA BALANCIN TIPO: 1.00 x 0.72m
ESC. 1/10

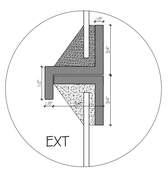


VENTANA BALANCIN TIPO: 1.00 x 0.48m
ESC. 1/10

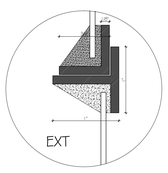
DETALLES DE JUNTAS DE ABERTURAS METALICAS



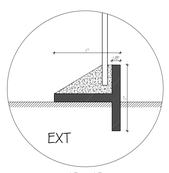
A-A



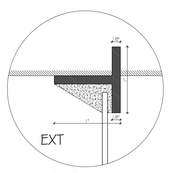
B-B



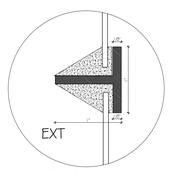
C-C



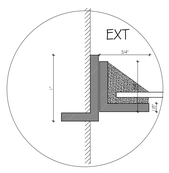
D-D



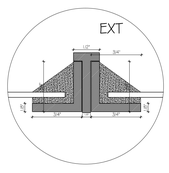
E-E



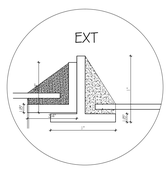
F-F



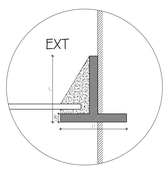
H-H



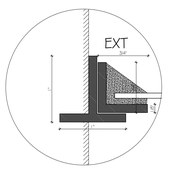
I-I



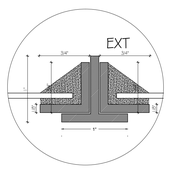
J-J



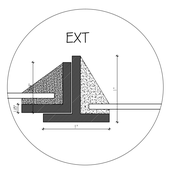
K-K



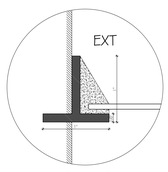
L-L



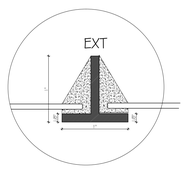
M-M



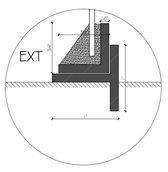
N-N



Ñ - Ñ



O-O



P-P

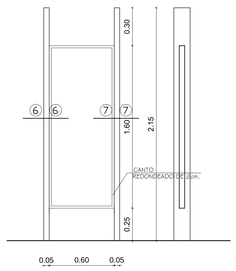
MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

DIRECCION GENERAL DE DESARROLLO URBANO
Director Gral.: Arq. Luis Villalba

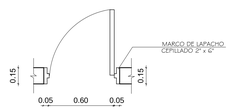
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ABERTURAS METALICAS	ESCALA 1/10	Lamina Nº10

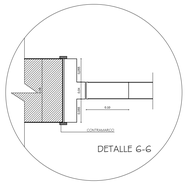
PUERTA PLACA -1 HOJA VAIVÉN
REVESTIDO EN FORMICA
BOXES DE SSHH

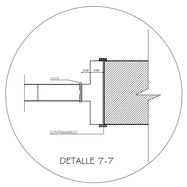


ALZADO VISTA EXTERIOR
ESC. 1:20

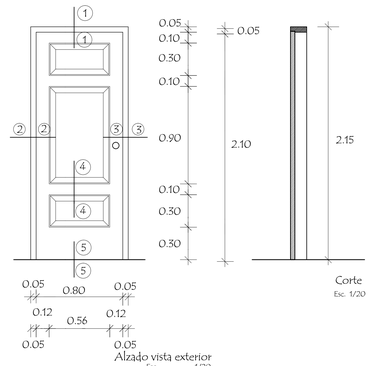


PLANTA
ESC. 1:20



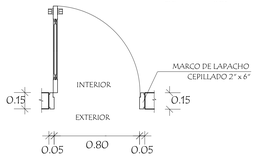


PUERTA TABLERO - 1 HOJA

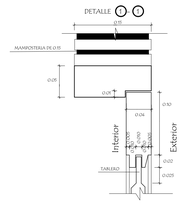


Alzado vista exterior
Esc. 1/20

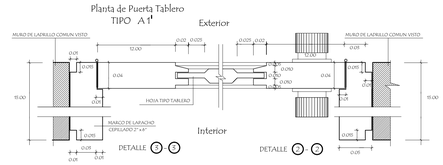
Corte
Esc. 1/20

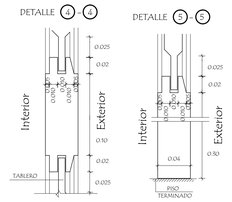


Planta
Esc. 1/20

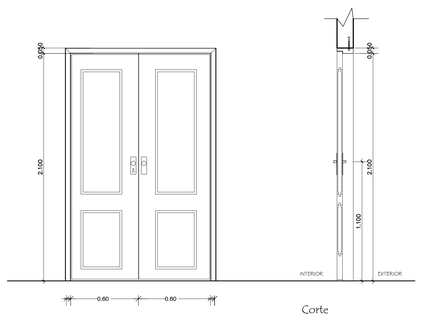


Planta de Puerta Tablero
TIPO A 1"



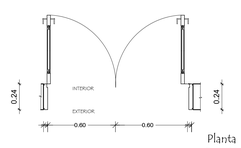


PUERTA TABLERO-2 HOJAS



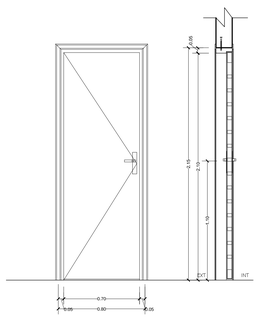
Corte
Esc. 1/20

Alzado vista exterior
Esc. 1/20



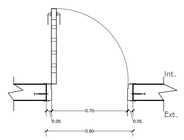
Planta
Esc. 1/20

PUERTA PLACA - 1 HOJA



Corte
Esc. 1/20

Alzado vista exterior
Esc. 1/20



Planta
Esc. 1/20

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

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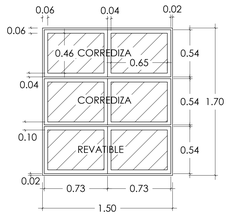
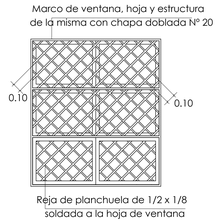
Director Gral.: Arq. Luis Villalba

PROYECTO "FONACIDE"
LÁMINAS GENERALES.

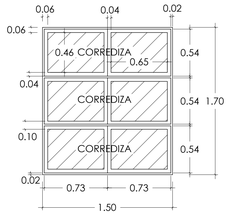
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ABERTURAS DE MADERA	ESCALA 1/20	Lamina Nº11

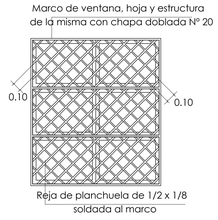
Detalle de Ventana Metálica Rebatible de 1.50 x 1.70m - T1
Esc. 1/25



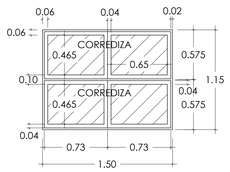


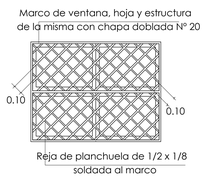
Detalle de Ventana Metálica de 1.50 x 1.70m - T2
Esc. 1/25



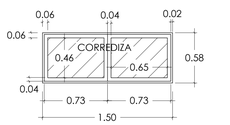


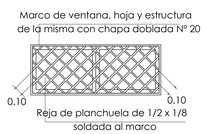
Detalle de Ventana Metálica de 1.50 x 1.15m
Esc. 1/25



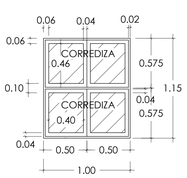


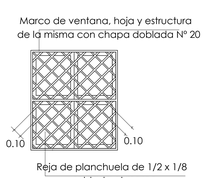
Detalle de Ventana Metálica de 1.50 x 0.58m
Esc. 1/25



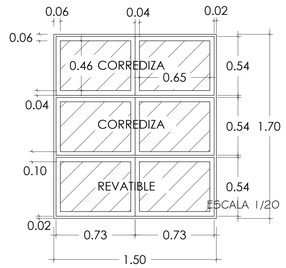


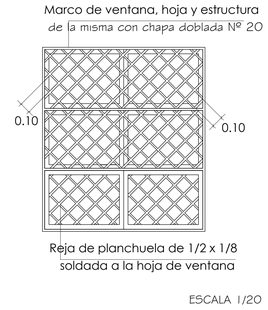
Detalle de Ventana Metálica de 1.00 x 1.15m
Esc. 1/25





Detalle de Ventana Metálica Rebatible de 1.50 x 1.70m - tipo 1

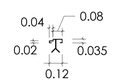




Detalle de Corte

Detalle de marco A

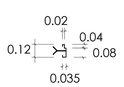
Detalle de marco B



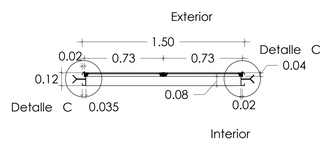
Corte vertical tipo corrediza
con revatible

Corte vertical tipo corrediza
con revatible

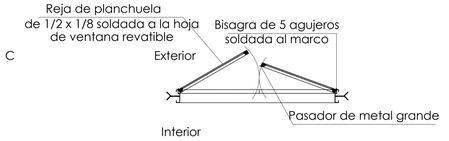
Detalle de marco C



Corte horizontal tipo corrediza
con revatible



Corte horizontal tipo corrediza
con revatible



MUNICIPALIDAD DE ASUNCION
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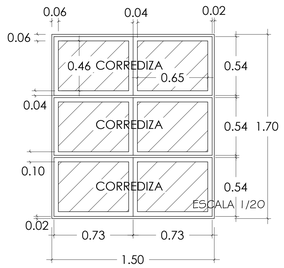
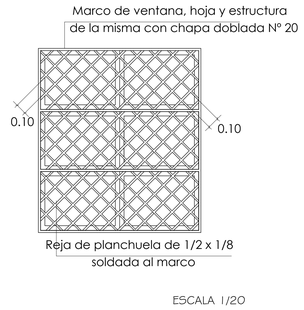
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ABERTURAS METALICAS	ESCALA 1/20 ESCALA 1/25	Lamina Nº12

Detalle de Ventana Metálica de 1.50 x 1.70m - tipo 2

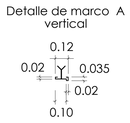




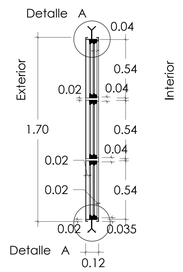
ESCALA 1/20

Detalle de Corte

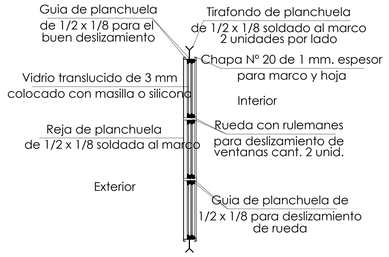
Corte vertical tipo corrediza

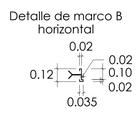


Corte vertical tipo corrediza

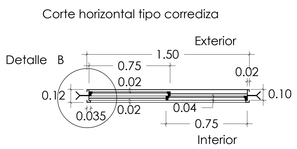


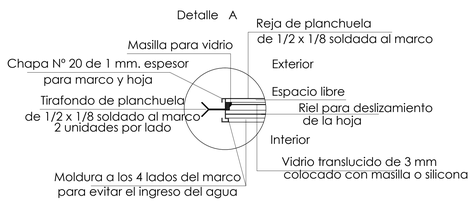
Corte vertical tipo corrediza

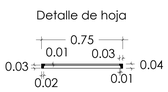




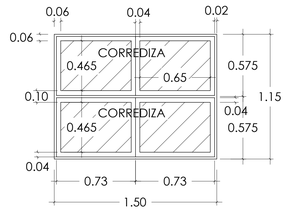
Corte horizontal tipo corrediza



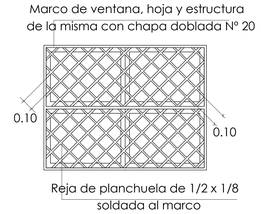




Detalle de Ventana Metálica de 1.50 x 1.15m



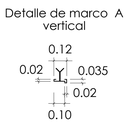
ESCALA 1/20



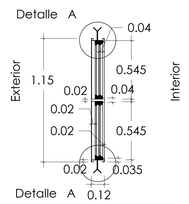
ESCALA 1/20

Detalle de Corte

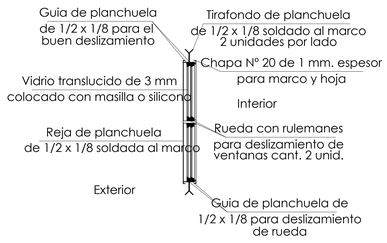
Corte vertical tipo corrediza

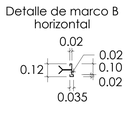


Corte vertical tipo corrediza

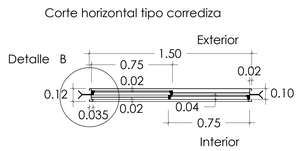


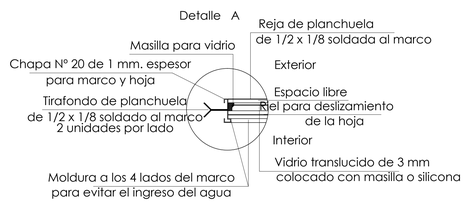
Corte vertical tipo corrediza

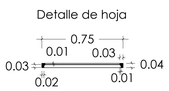




Corte horizontal tipo corrediza







MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

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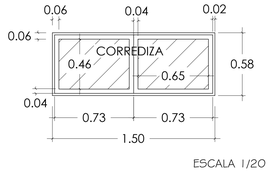
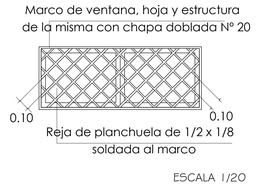
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ABERTURAS METALICAS	ESCALA 1/20	Lamina Nº13

Detalle de Ventana Metálica de 1.50 x 0.58m



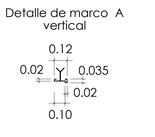
ESCALA 1/20

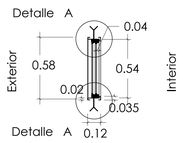


ESCALA 1/20

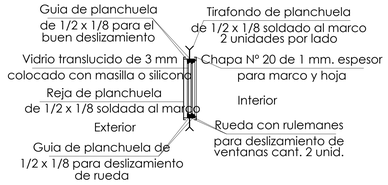
Detalle de Corte

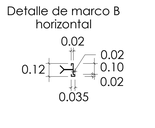
Corte vertical tipo corrediza

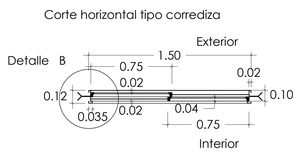


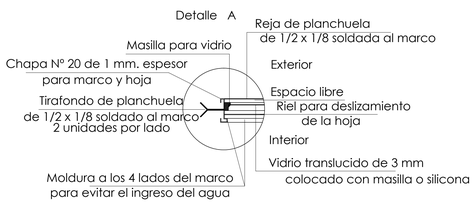


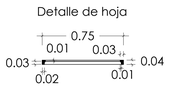
Corte vertical tipo corrediza



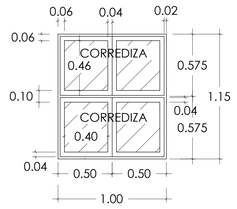




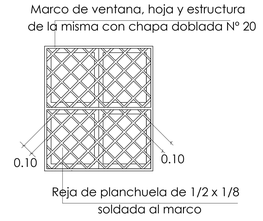




Detalle de Ventana Metálica de 1.00 x 1.15m



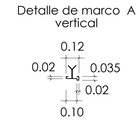
ESCALA 1/20

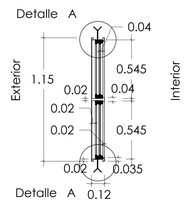


ESCALA 1/20

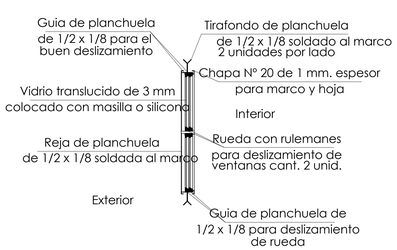
Detalle de Corte

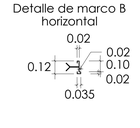
Corte vertical tipo corrediza

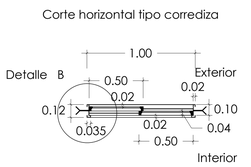


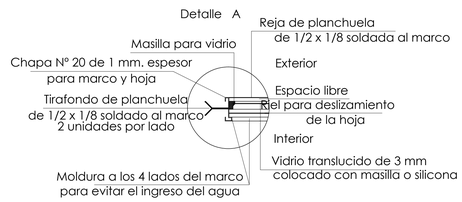


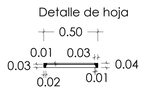
Corte vertical tipo corrediza











MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

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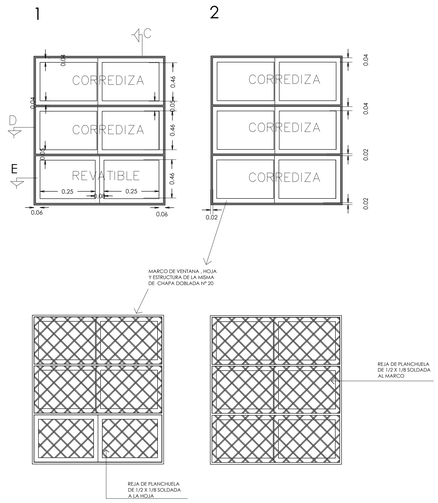
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

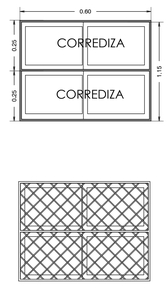
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ABERTURAS METALICAS	ESCALA 1/20	Lamina Nº14

VENTANA METÁLICA
1. 50 x 1.70



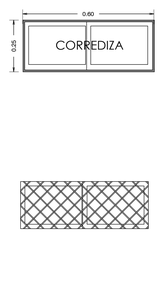
ESCALA 1/10

VENTANA METÁLICA
0.60 x 1.15



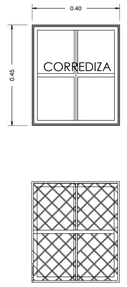
ESCALA 1/10

VENTANA METÁLICA
0.60 x 0.25



ESCALA 1/10

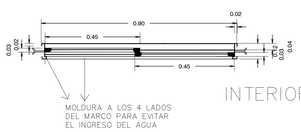
VENTANA METÁLICA
0.40 x 0.46



ESCALA 1/10

DETALLE DE MARCO
VENTANA
CORREDIZA

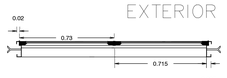
EXTERIOR



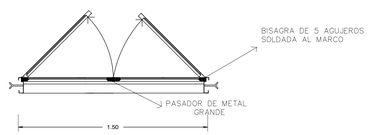
INTERIOR

CORTE D

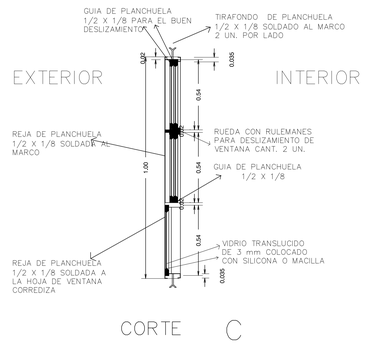
EXTERIOR



INTERIOR

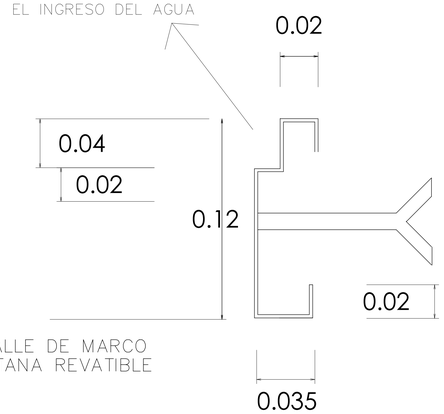


CORTE E



CORTE C

MOLDURA A LOS 4 LADOS DEL MARCO PARA EVITAR EL INGRESO DEL AGUA



DETALLE DE MARCO
VENTANA REVATIBLE

EXTERIOR

INTERIOR

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

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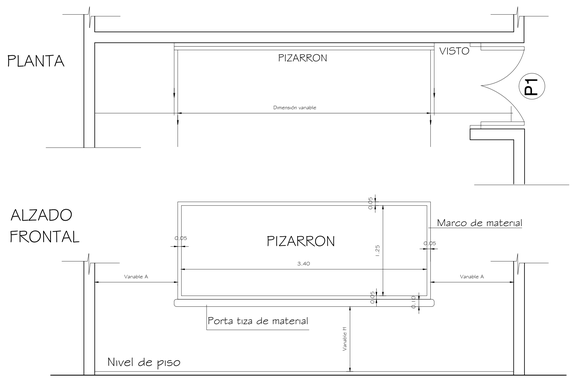
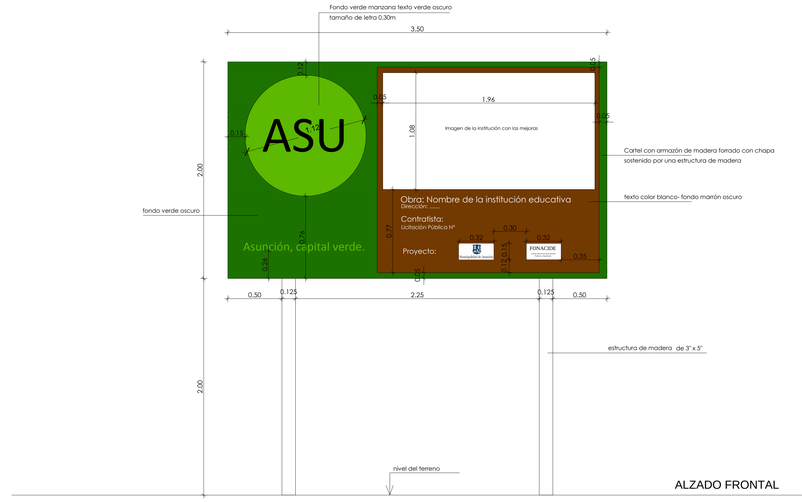
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

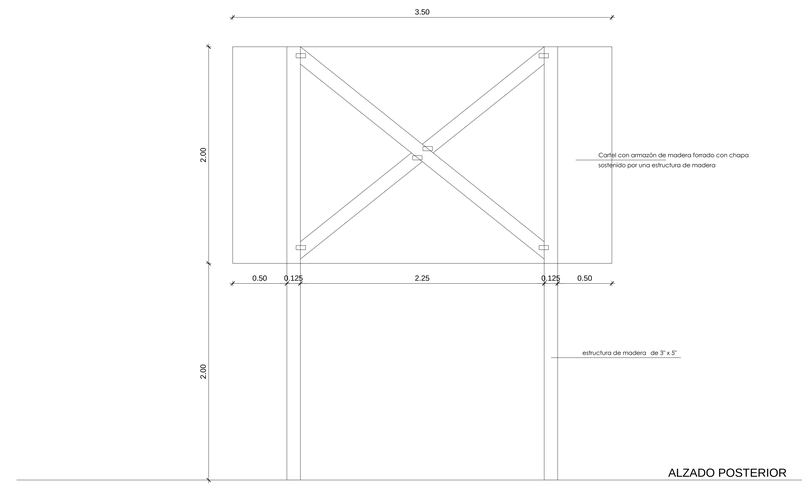
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE ABERTURAS METALICAS	ESCALA 1/10	Lamina Nº15

Ubicación de Pizarrón.

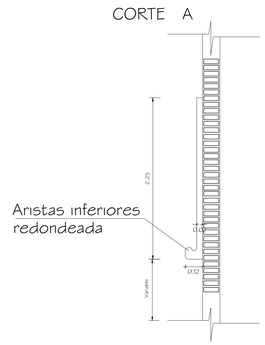


DETALLE DE CARTEL DE OBRA
Esc. 1/20





CORTE A



CONSTRUCCION DE PIZARRON EMPOTRADO EN MURO

ESPECIFICACIONES TECNICAS

1- Sobre el muro de ladrillo marcar las dimenciones recomendadas preparar el marco de material y porta tiza con ladrillos empotrados, revocados posteriormente con mortero, cemento-arena (1:3), dandole revoque con mortero cemento-arena (1:3), y aplicación de tres manos de enduido plástico, con textura de terminación redondeada en las aristas interiores.-

2- En la zona de pizarrón propiamente, aplicar una azotada con hidrófugo(ceresita), posteriormente luego de la cantidad de alizado necesarios.

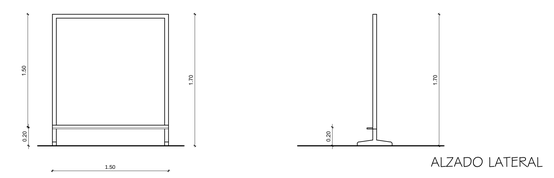
3- Aplicar sellador o fijador plástico, posteriormente aplicar tres manos de pintura sintética para pizarrón color verde pizarra, en el marco y portatiza luego del mismo proseso pintura sitéticas color gris.

OBSERVACIONES :

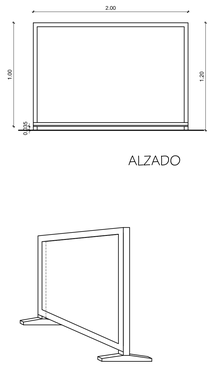
ALTURA A RESPETAR PARA LA UBICACION DEL PIZARRON

1- Para escuela		2- Para colegio	
A	1.15 mts.	A	1.70 mts.
H	0.70 mts.	H	0.80 mts.

PIZARRÓN MÓVIL



MAMPARA DIVISORIA ÁREA DESCANSO



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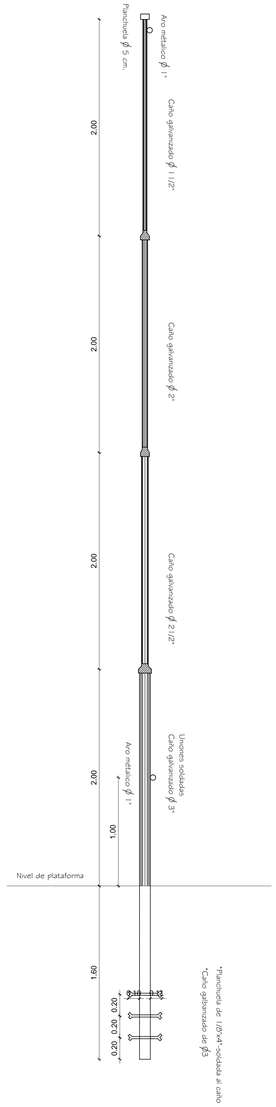
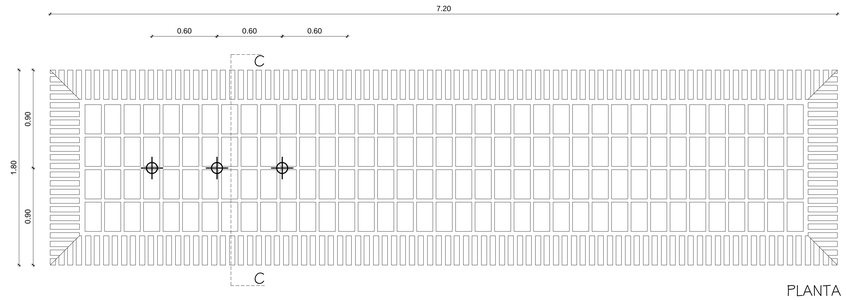
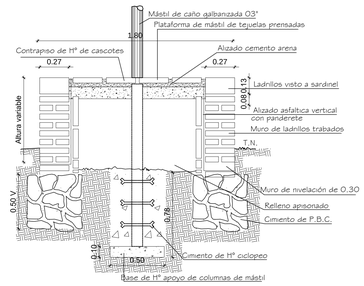
DETALLES DE PIZARRÓN. DETALLES DE LETRERO OFICIAL	ESCALA 1/10	Lamina Nº16



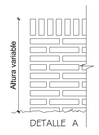
DETALLE MÁSTIL
Escala 1/20

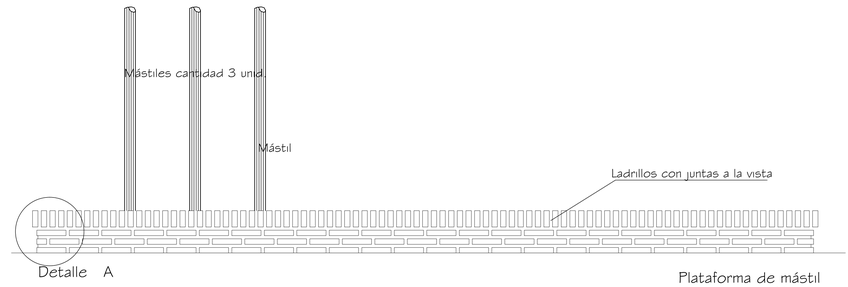


PLANTA
Escala 1/20



CORTE C-C
Escala 1/20





Detalle A

Plataforma de mástil
Alzado
Escala 1/20

MUNICIPALIDAD DE ASUNCION
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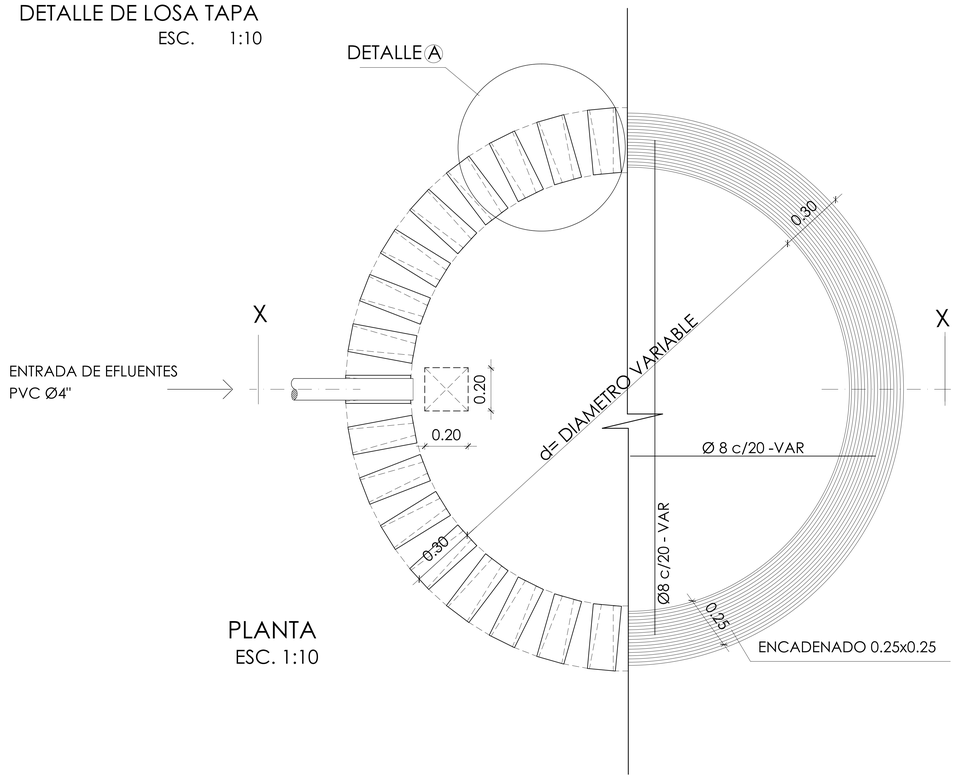
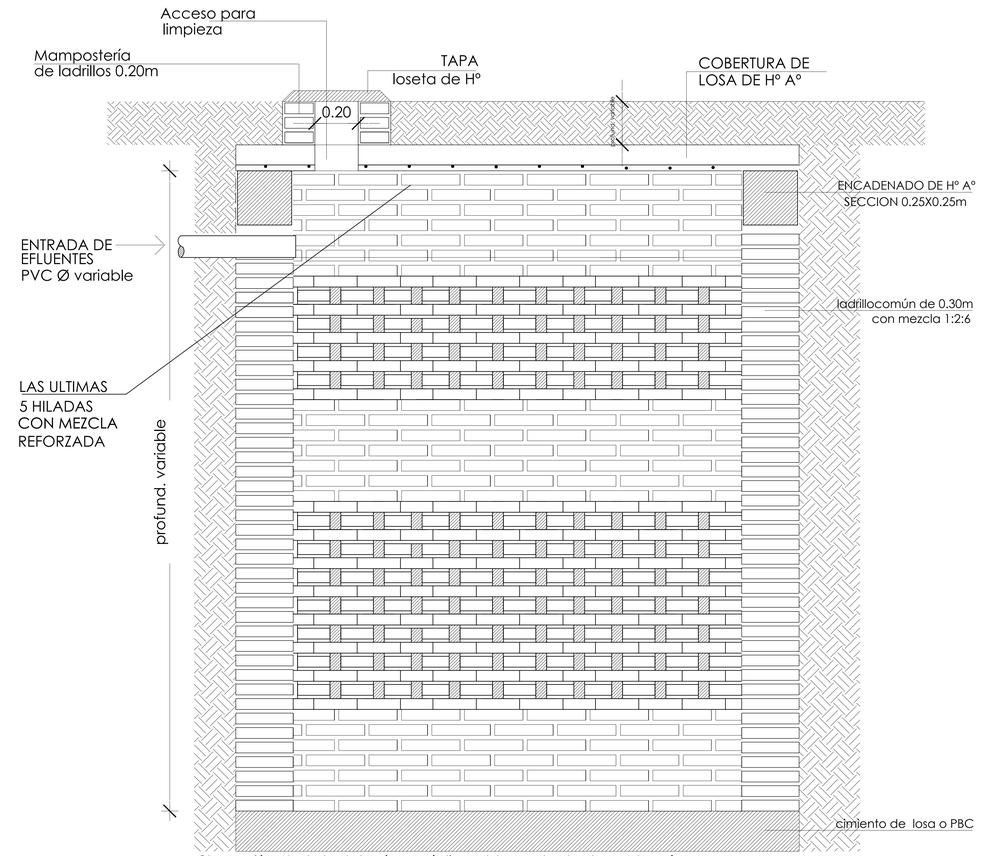
PROYECTO "FONACIDE"
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLE DE PLATAFORMA MÁSTIL	ESCALA 1/20	Lamina Nº17

DETALLE DE LOSA TAPA
ESC. 1:10



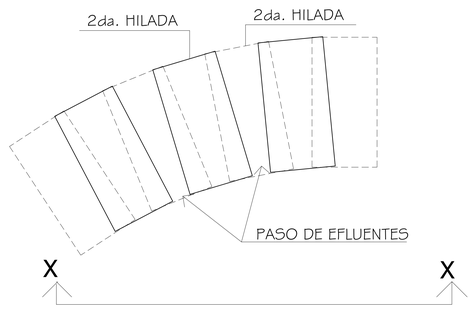
PLANTA
ESC. 1:10



Observación: Alrededor de la cámara séptica y del pozo absorbente se colocará piedra triturada y arena lavada compacta para evitar hundimientos y posteriores desmoronamientos.

CORTE X X
ESC. 1:10

DETALLE (A)



POZO ABSORBENTE MEDIDAS		
TIPO	d	h
1	2.00mts.	2.50mts.
2	2.50mts.	3.00mts.
3	3.00mts.	3.00mts.

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LÁMINAS GENERALES.

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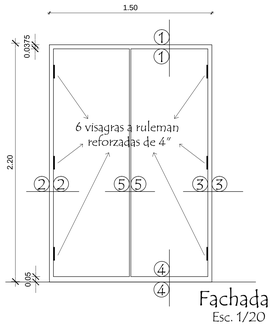
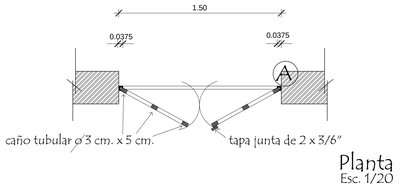
DETALLES DE POZO ABSORBENTE	ESCALA 1/10	Lamina Nº18

Puerta 1.50 x 2.00m

Puerta Chapa de 2 hojas



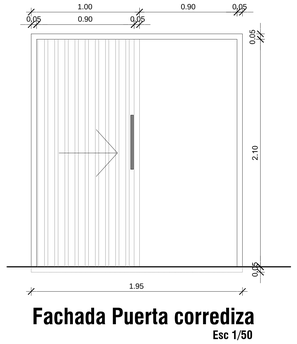
Fachada
Esc. 1/20



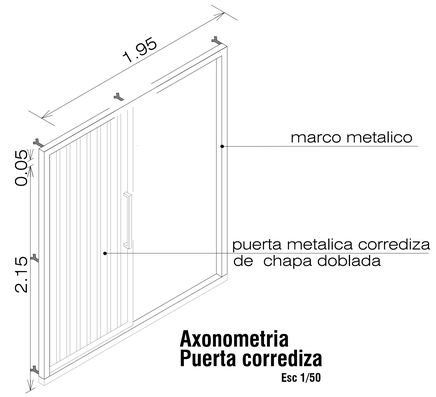
Planta
Esc. 1/20

Puerta 1 x 2.20m

Puerta Metálica corrediza

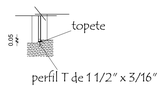


Fachada Puerta corrediza
Esc 1/50

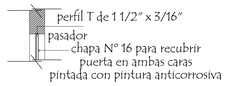


Axonometria
Puerta corrediza
Esc 1/50

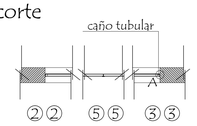
corte ④④



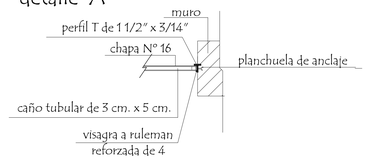
corte ①①



corte

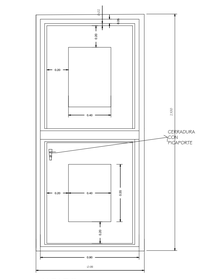


detalle A

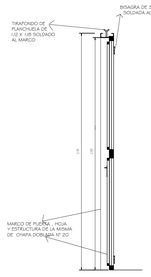


Puerta 0.90 x 2.10m

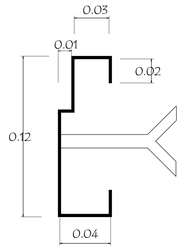
Puerta Metálica con 1 hoja



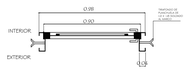
ALZADO
Esc. 1/20



CORTE
Esc. 1/20



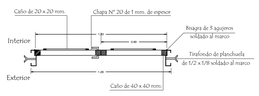
DETALLE DE
MARCO



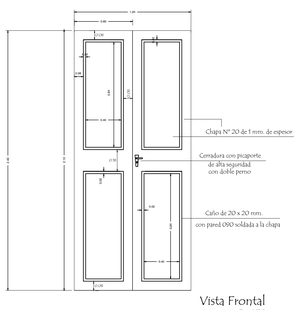
PLANTA
Esc. 1/20

Puerta 1.20 x 2.10m

Puerta Metálica con 2 hojas

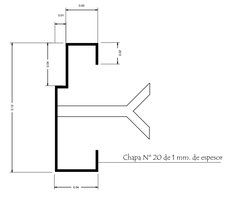


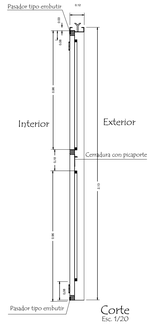
Planta
Esc. 1/20



Vista Frontal
Esc. 1/20

Detalle de Marco





Corte
Esc. 1/20

OBSERVACION :

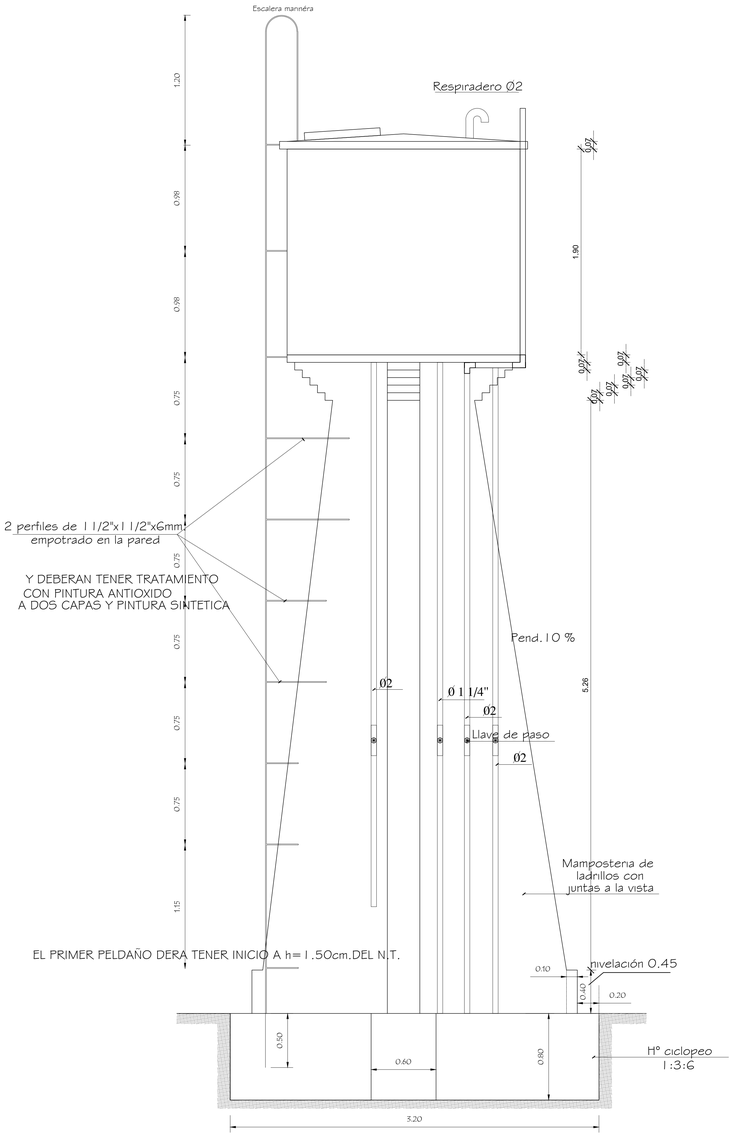
En todos los lugares donde se utilizaron soldadura y no tuvieron un relleno completo, compactos y prolijos debiendo resultar suave al tacto, deberán de utilizar masilla para chapa para posteriormente realizar una lijada completa y pintar 2 manos con pintura anticorrosiva antes de su colocación y otras 2 con pintura sintética opaca como terminación.

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

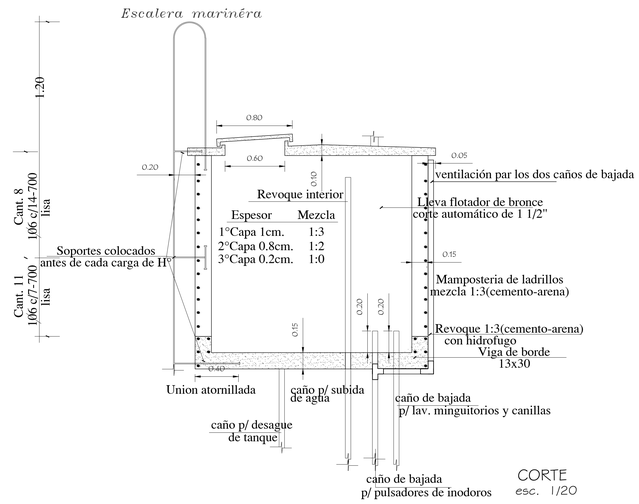
DIRECCION GENERAL DE DESARROLLO URBANO
Director Gral.: Arq. Luis Villalba

PROYECTO "FONACIDE"
LÁMINAS GENERALES.

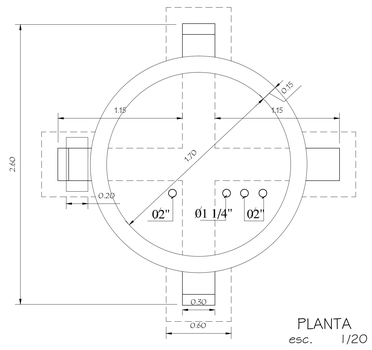
UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES DE PUERTA DOBLE HOJA	ESCALA 1/20	Lamina Nº19



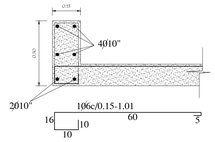
FACHADA PRINCIPAL
esc. 1/20



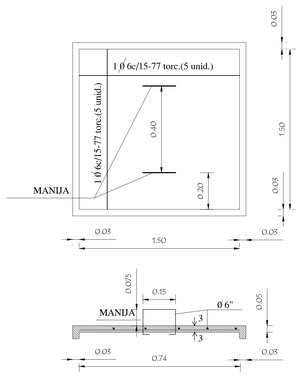
CORTE
esc. 1/20



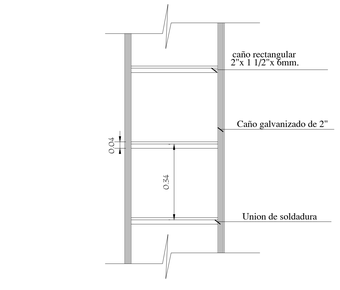
PLANTA
esc. 1/20

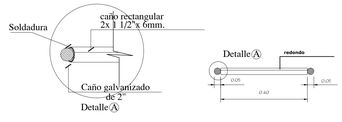


VIGA DE BORDE
esc. 1/10

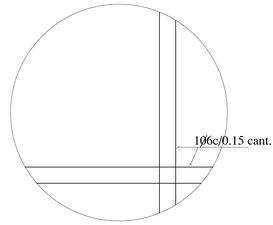


DETALLE DE LOSA TAPA
esc. 1/10

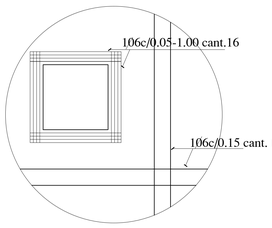




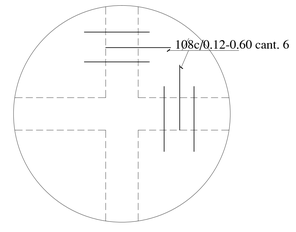
DETALLE ESCALERA
esc. 1/10



LOSA FONDO



LOSA TAPA
esc. 1/20



LOSA FONDO
ARMADURA NEGATIVA
esc. 1/20

MUNICIPALIDAD DE ASUNCION
Intendente: Dr. Arnaldo Samaniego

DIRECCION GENERAL DE DESARROLLO URBANO
Director Gral.: Arq. Luis Villalba

PROYECTO "FONACIDE"
LÁMINAS GENERALES.

UNIDAD DE INFRAESTRUCTURA DEL FONACIDE	FUENTE: MINISTERIO DE EDUCACIÓN Y CULTURA.	
DETALLES TANQUE DE AGUA DE 5000 L.	ESCALA 1/20	Lamina Nº20