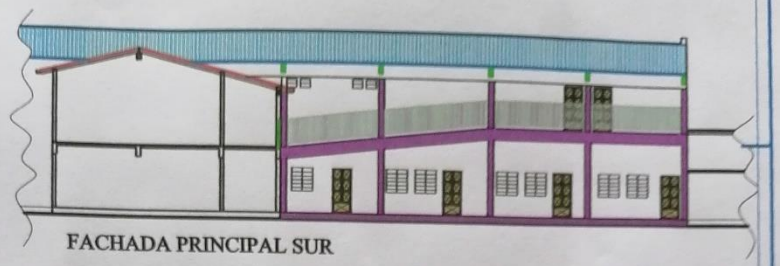
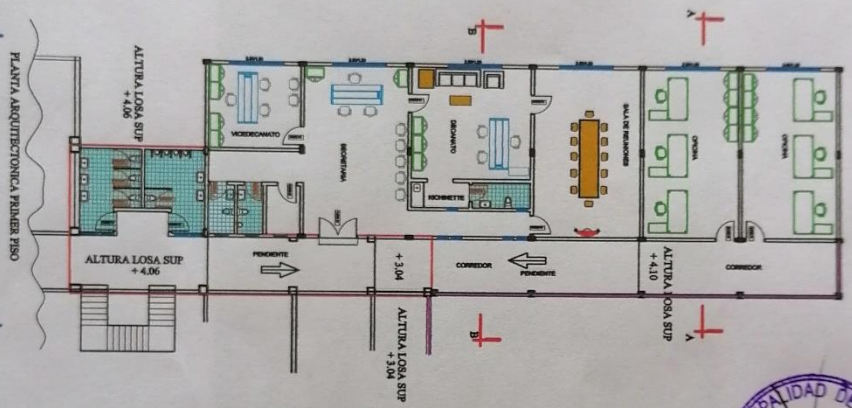


FACHADA PRINCIPAL SUR




PLANTA ARQUITECTONICA PRIMER PISO

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

| | |
|---|---|
| **Obra:** | PROYECTO AMPLIACION PABELLON FACULTAD DE CIENCIAS CONTABLES UNP |
| **Ubicación:** | CAMPUS UNIVERSITARIO B° YTORORO - PILAR PARAGUAY |
| **Propietario:** | FACULTAD CIENCIAS CONTABLES |
| **Profesional:** | Reg. N°: |
| **Sup. construccion :** 295 M2 | **Sup. Terreno :** / **Cta. Cte. Ctral.N° :** |

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DE FRANCISCO J. MARTÍNEZ RUC 771.688 - 5
Cel. 0975 681680 estudiotecnicomartinez23@gmail.com

Propietario

Profesional

| | | | |
|---|---|---|---|
| **Fecha:** 08/09/20 | **Dibujo:** F.J.Martínez | **Escala:** | **Número:** 040/2020 |

Francisco Javier Martinez Argüello
Servicios Personales
RUC: 771688-5
REG. 1221

ALBERTO L. RIOS VARGAS
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# PLANTA DE UBICACIÓN

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

| | |
|---|---|
| **Obra:** | PROYECTO AMPLIACION PABELLON FACULTAD DE CIENCIAS CONTABLES UNP |
| **Ubicación:** | CAMPUS UNIVERSITARIO B° YTORORO - PILAR PARAGUAY |
| **Propietario:** | FACULTAD CIENCIAS CONTABLES |
| **Profesional:** | **Reg. N°:** |
| **Sup. construccion :** 295 M2 | **Sup. Terreno :** / **Cta. Cte. Ctral.N° :** |

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Propietario

Profesional

| | | | |
|---|---|---|---|
| **Fecha:** 08/09/20 | **Dibujo:** F.J.Martínez | **Escala:** | **Número:** 040/2020 |

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# FACHADA PRINCIPAL SUR

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MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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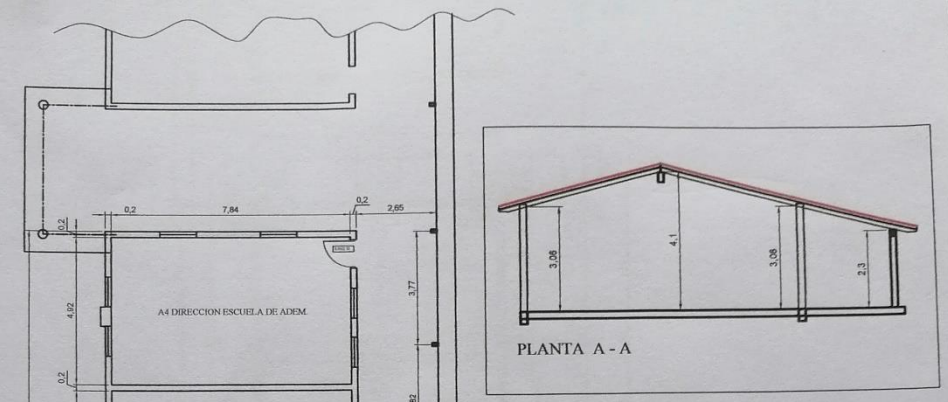
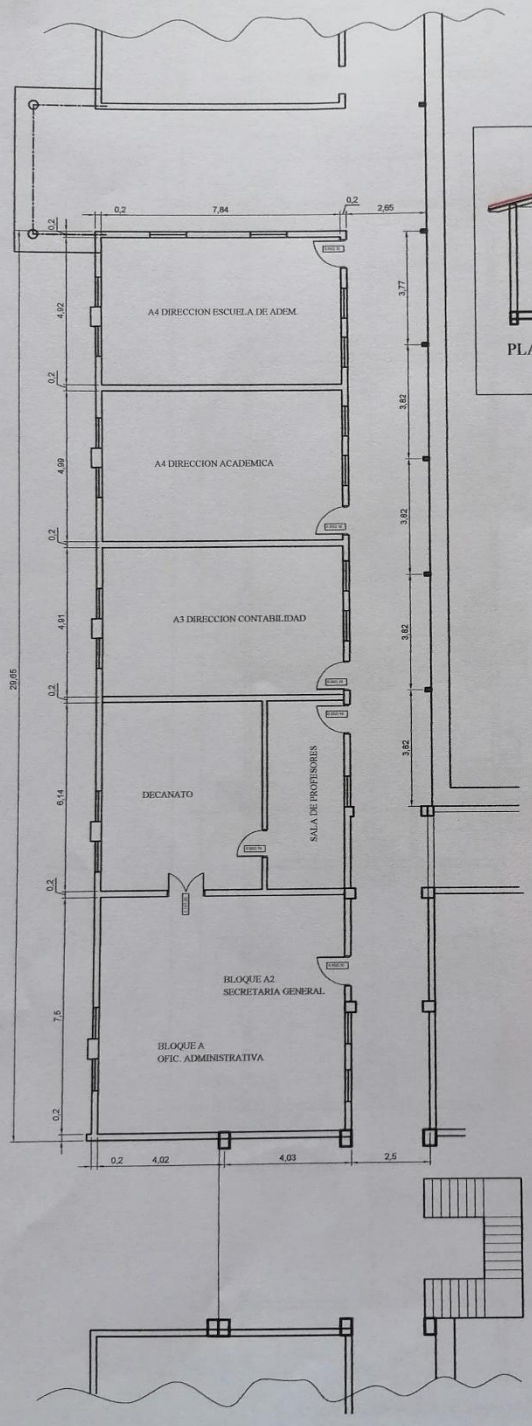



PLANTA A - A




PLANTA ARQUITECTÓNICA ACTUAL
PLANTA BAJA

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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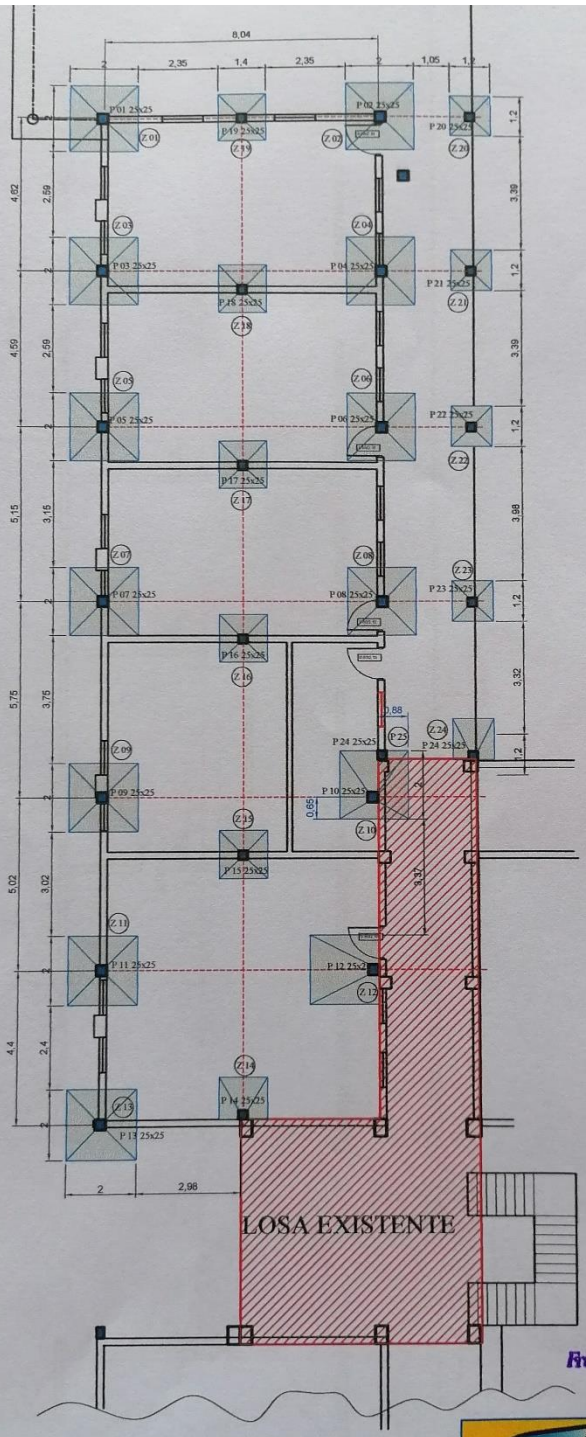


MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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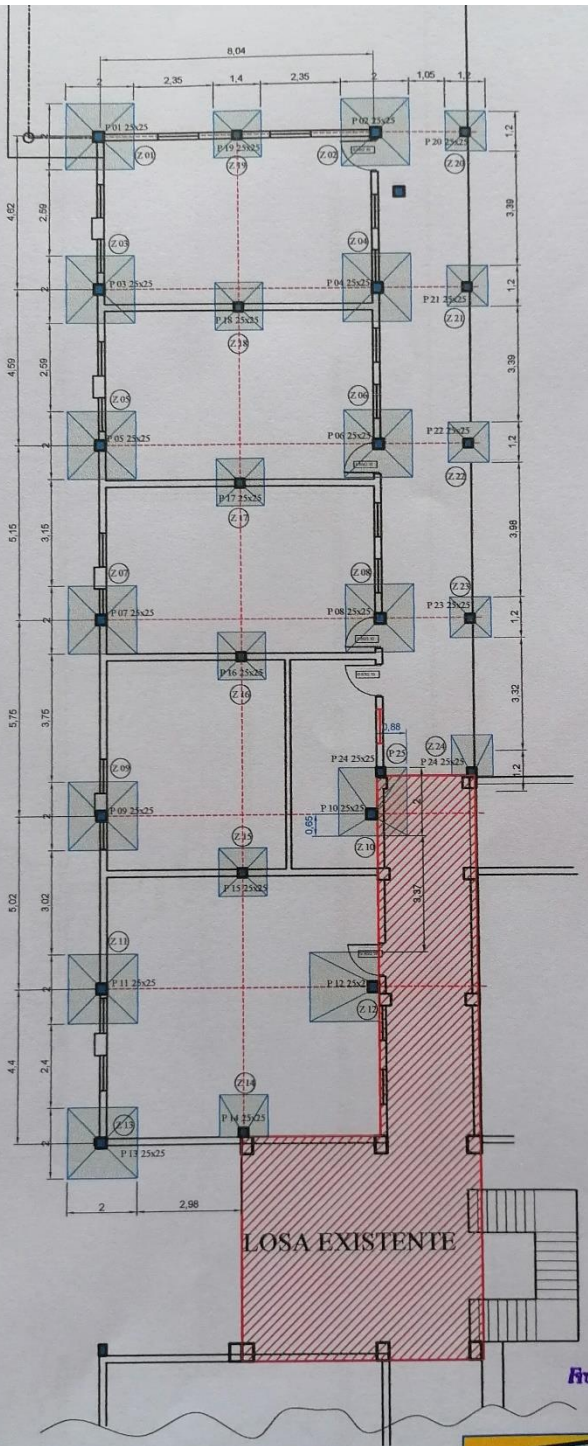
Servicios Personales 26.1221
RUC: 771688-5

STUDIO TÉCNICO MARTÍNEZ
DE FRANCISCO J. MARTÍNEZ RUC 771.688 - 5

PLANTA DEFUNDACION ZAPATAS
PLANTA BAJA




PLANTA DEFUNDACION ZAPATAS
PLANTA BAJA

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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06.1221

STUDIO TÉCNICO
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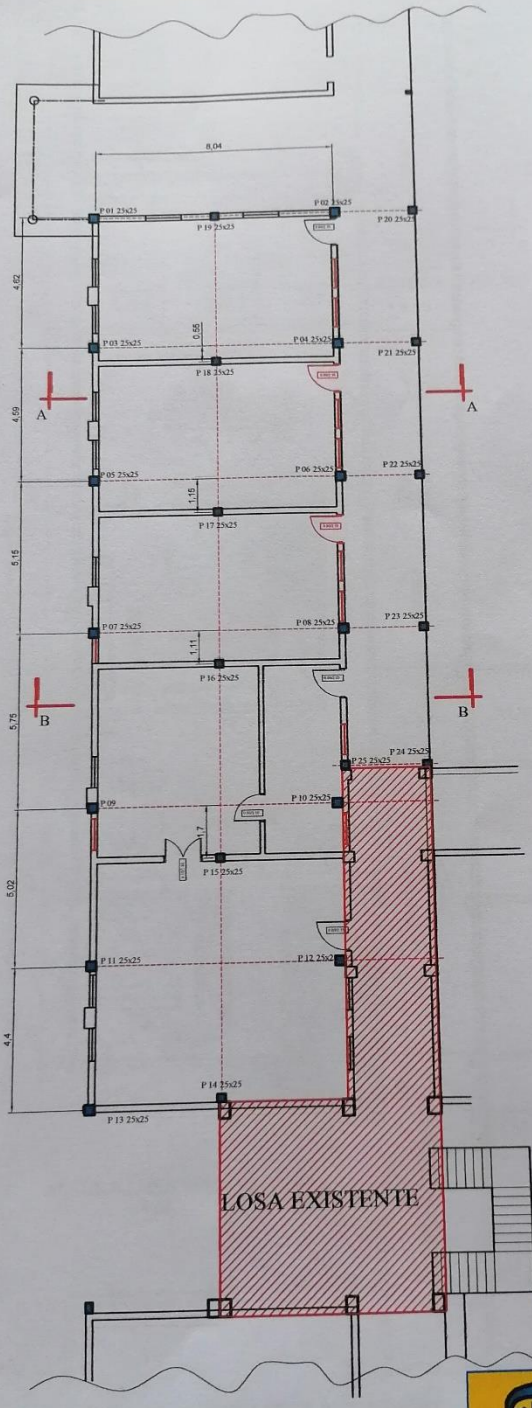
DE FRANCISCO J. MARTÍNEZ RUC 771.688 - 5




MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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PLANTAARQUITECTONICA MODIFICADA
PLANTA BAJA

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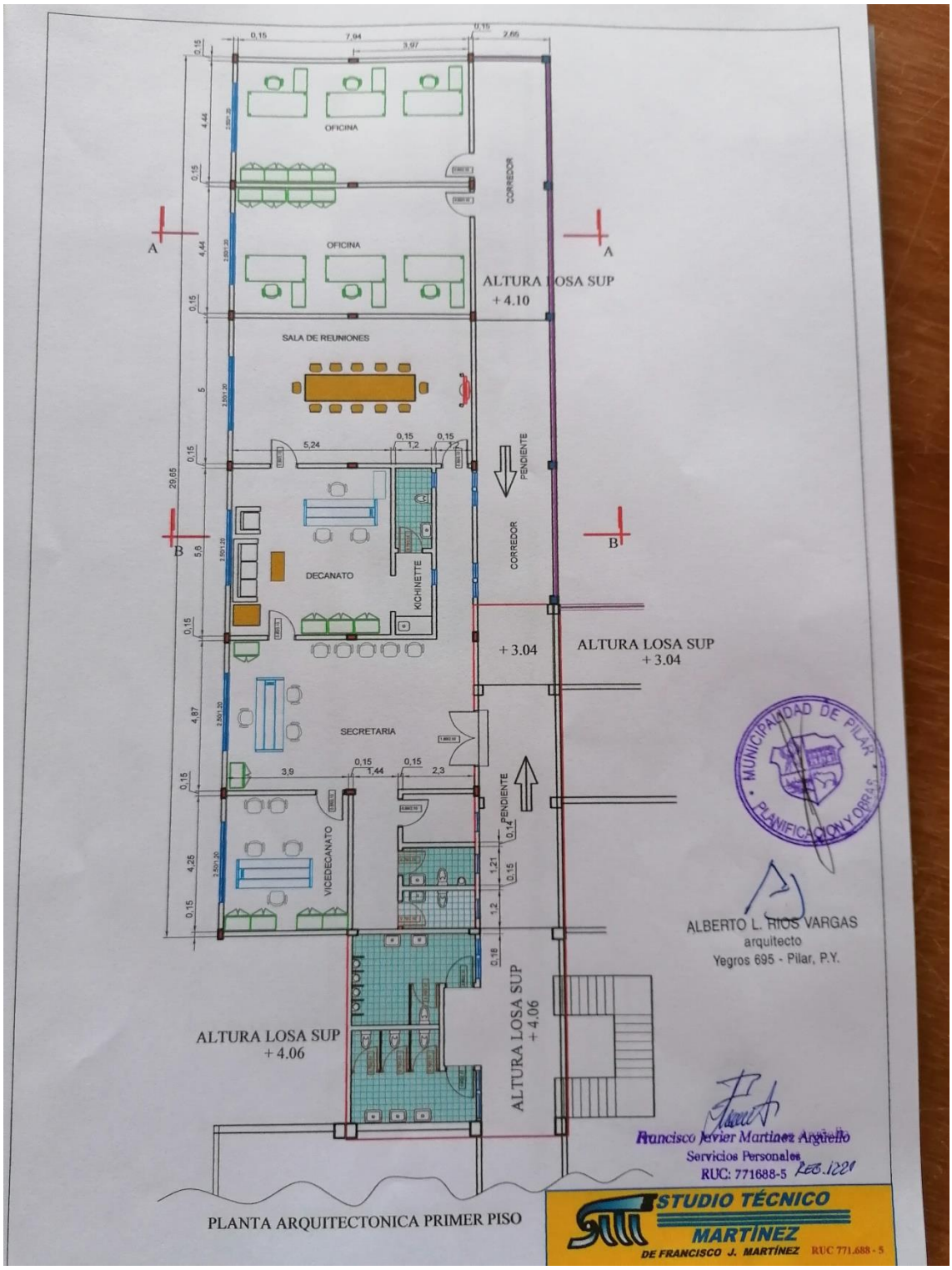


PLANTA ARQUITECTONICA PRIMER PISO

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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Servicios Personales
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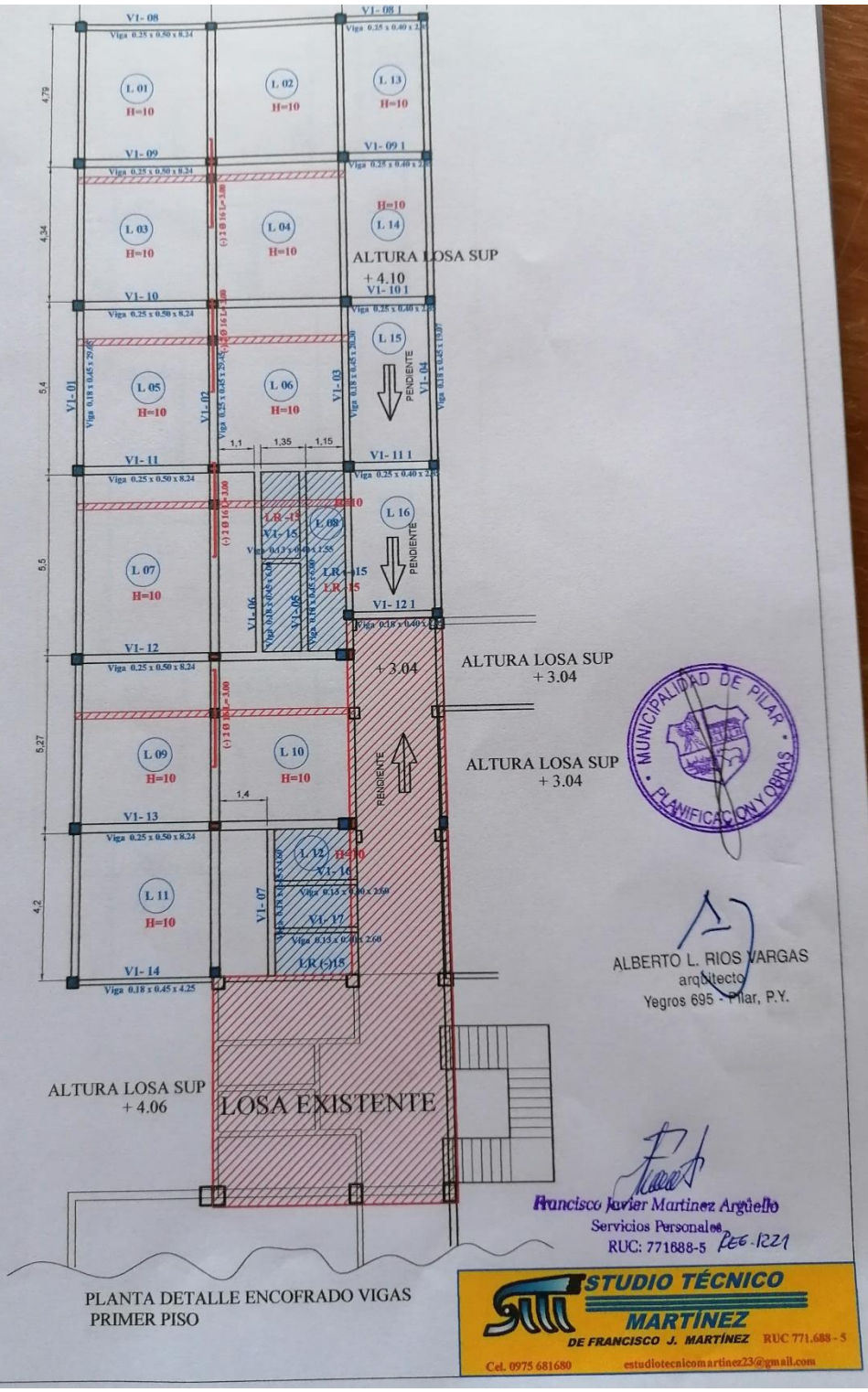
DE FRANCISCO J. MARTÍNEZ RUC 771.688 - 5




PLANTA DETALLE ENCOFRADO VIGAS
PRIMER PISO

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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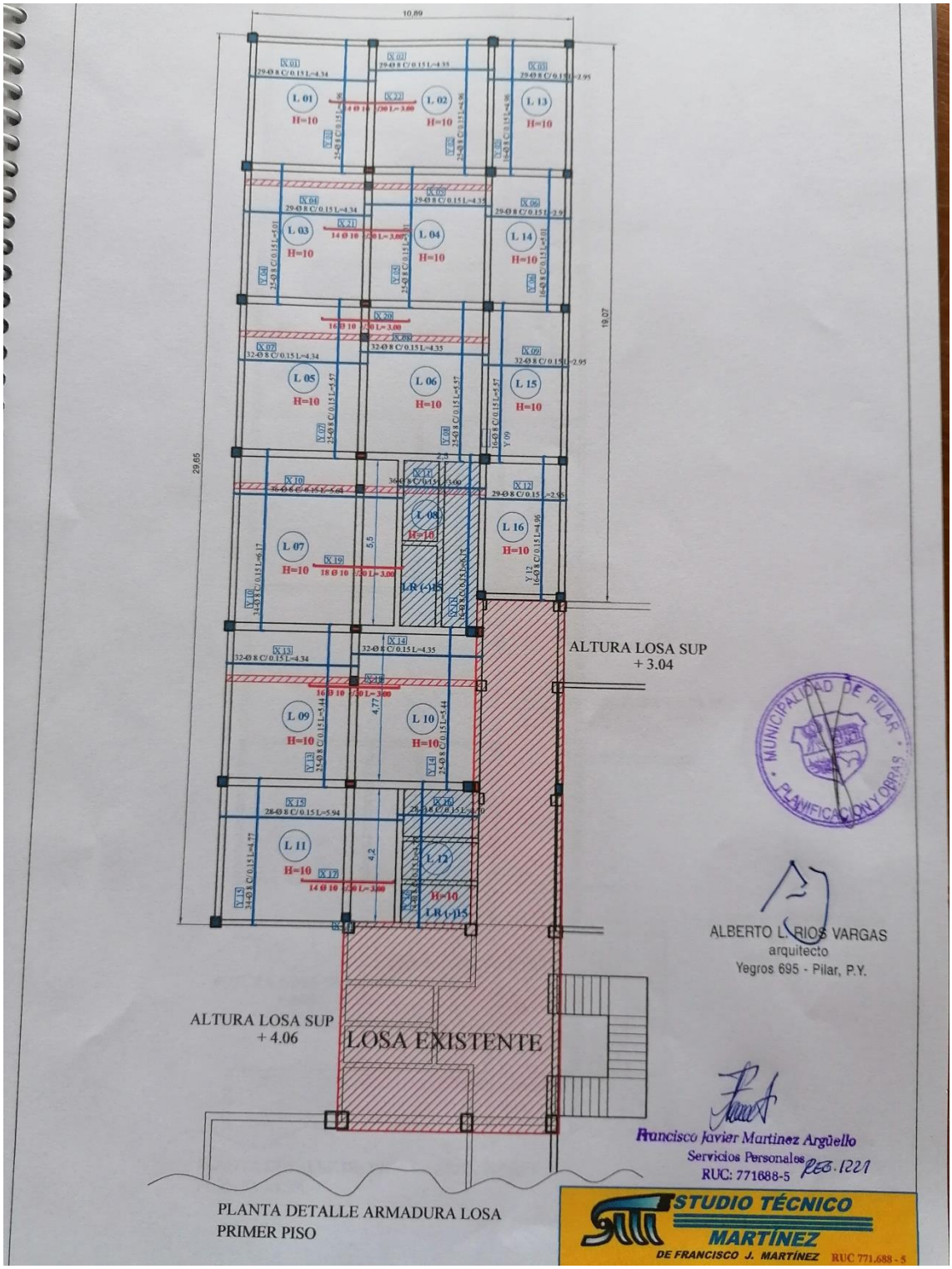


PLANTA DETALLE ARMADURA LOSA
PRIMER PISO

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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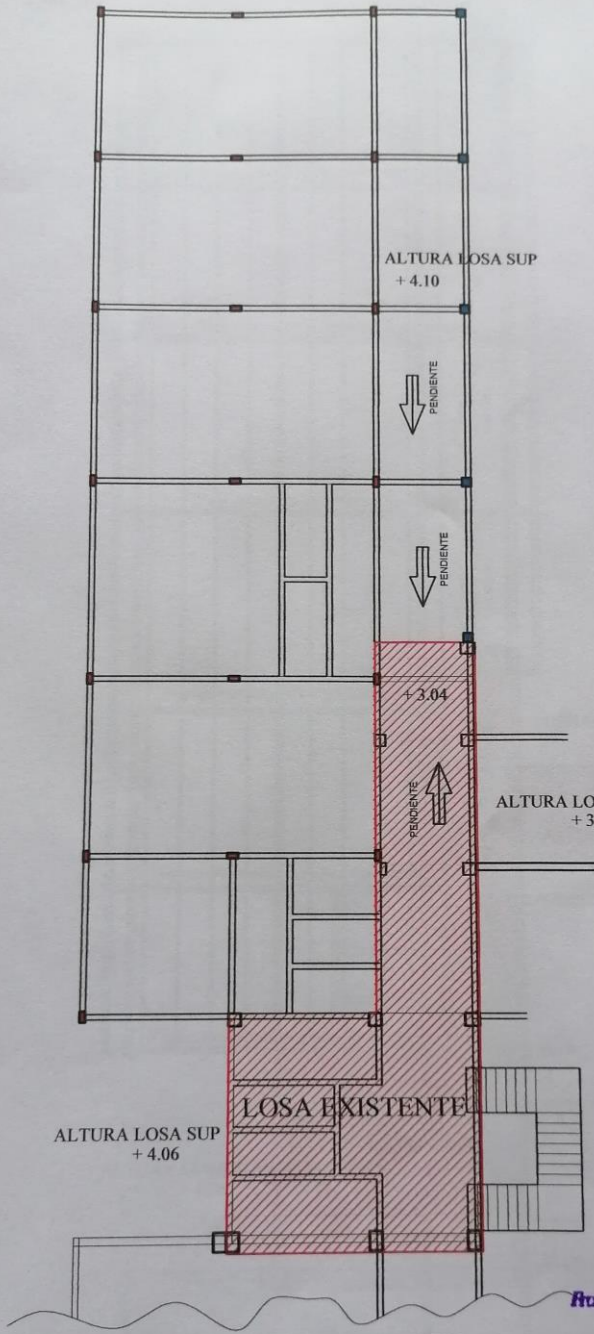
Francisco Javier Martinez Argüello
Servicios Personales
RUC: 771688-5 REG. 1221

STUDIO TÉCNICO
MARTÍNEZ
DE FRANCISCO J. MARTÍNEZ RUC 771.688 - 5




PLANTA DETALLE DE VIGA CADENA SUPERIOR
PLANTA ALTA

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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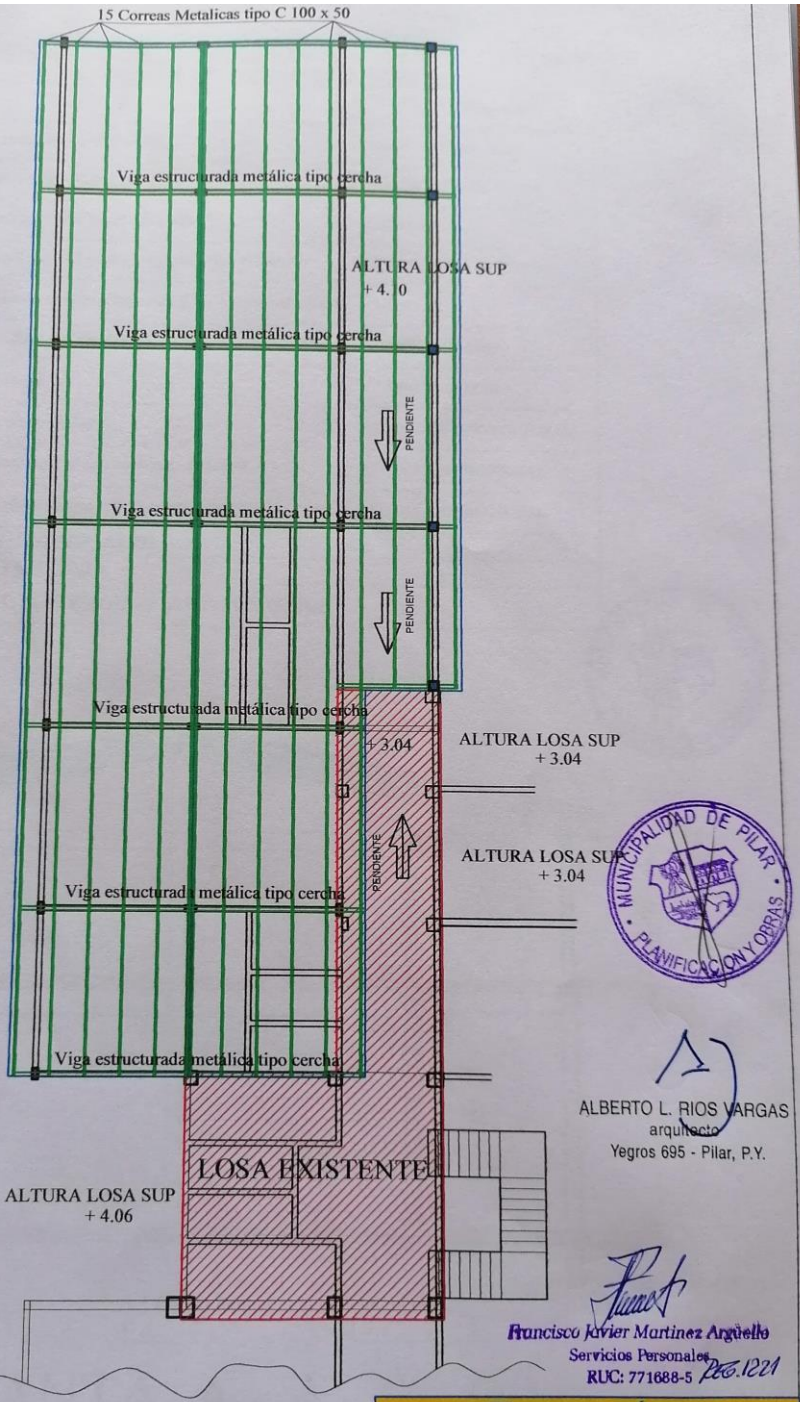


PLANTA DETALLE DE TECHO
PLANTA ALTA

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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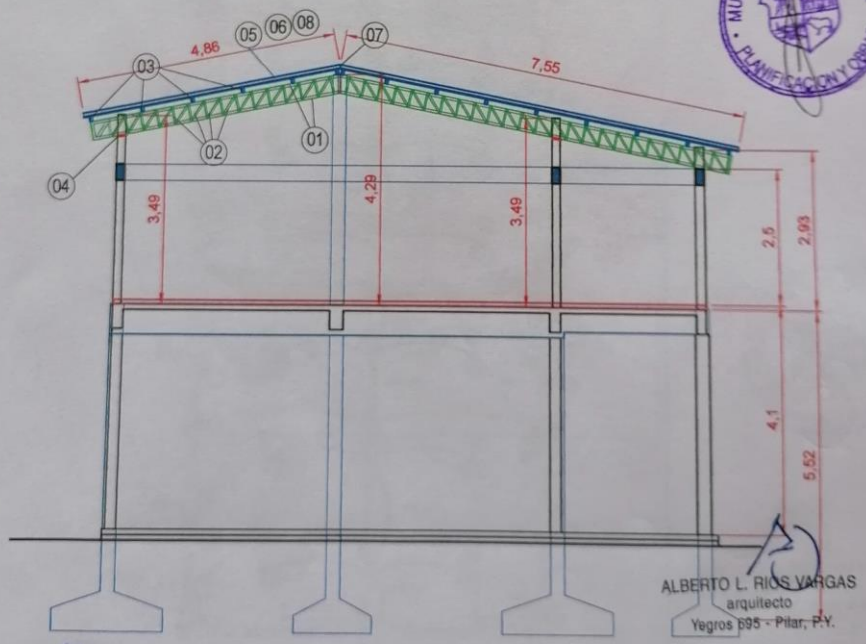
| MATERIALES GENERALES TECHO PABELLON PLANTA ALTA UNP FACULTAD DE CIENCIAS CONTABLES | | |
|---|---|---|
| Pos | Materiales | Aplicación |
| 01 | Chapa Doblada U 150 x 60 x 3 x 6.000 | CORDONES SUP. / INF |
| 02 | H° angulo L 1 1/4" x 1 1/4" x 1/8" x 6.000 | MALLA INTERNA DOBLE |
| 03 | Chapa Doblada C 100 x 50 x 25 x 2.5 x 6000 | CORREAS |
| 04 | Chapa Acero SAE 1000 x1200 x 10 Espesor 10 mm (1.00X1.20) | PLATABANDA DE APOYO |
| 05 | Chapa galvanizada plegada trapezoidal 6.10 x 1.10 cantidad = (2 X 20) | CUBIERTA |
| 06 | Tornillo Autoroscante 2½" 1200 uni | SUJECION CHAPAS |
| 07 | Caballete de 0.60 cm | CUMBRERA TECHO |
| 18 | Electrodo básico 3.25 mm | SOLDADURA ESTRUCTURAL |
| 19 | Pintura fondo negro en balde de un galón 3,600Litros | PINTURA ESTRUCTURAL |
| 10 | Pintura Sintética negro en balde de un galón 3,600Litros | PINTURA ESTRUCTURAL |
| | SUMA MATERIALES | |
| | MANO DE OBRA | |
| | TOTAL MATERIAL Y MANO DE OBRA | |




MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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# PLANTA A - A

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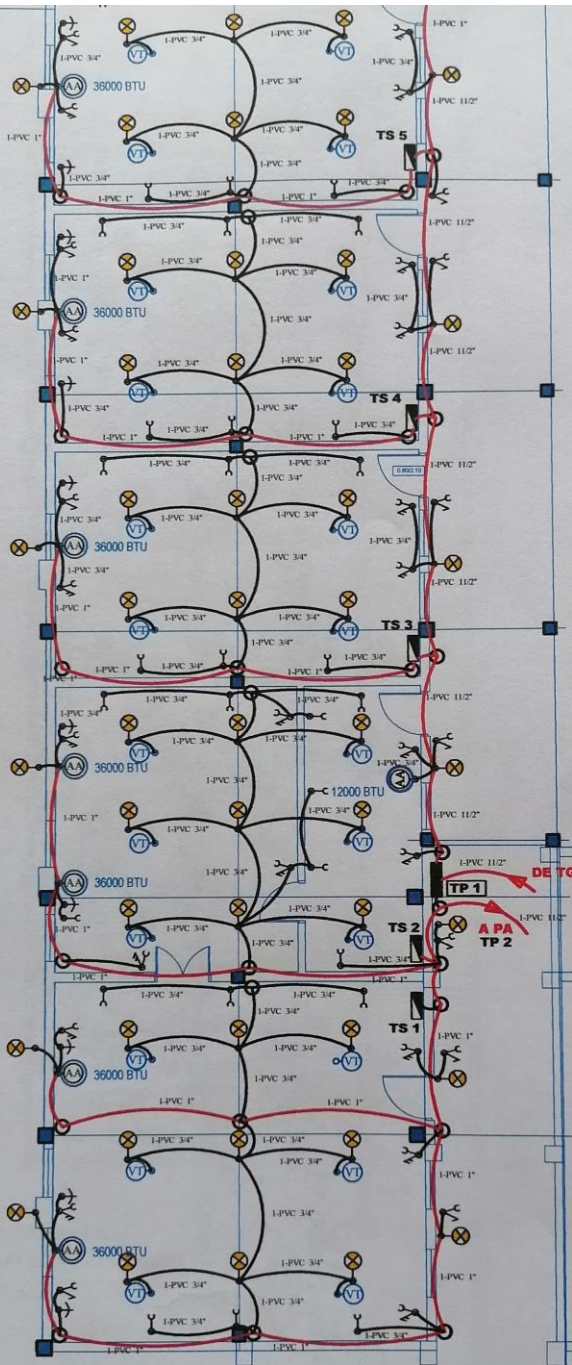


MUNICIPALIDAD DE PILAR
PLANIFICACIÓN Y OBRAS

ALBERTO V. RIOS VARGAS
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PLANTA DETALLE INSTALACIÓN ELECTRICA
PLANTA BAJA

LOSA EXIS

Francisco Javier Martinez Argüello
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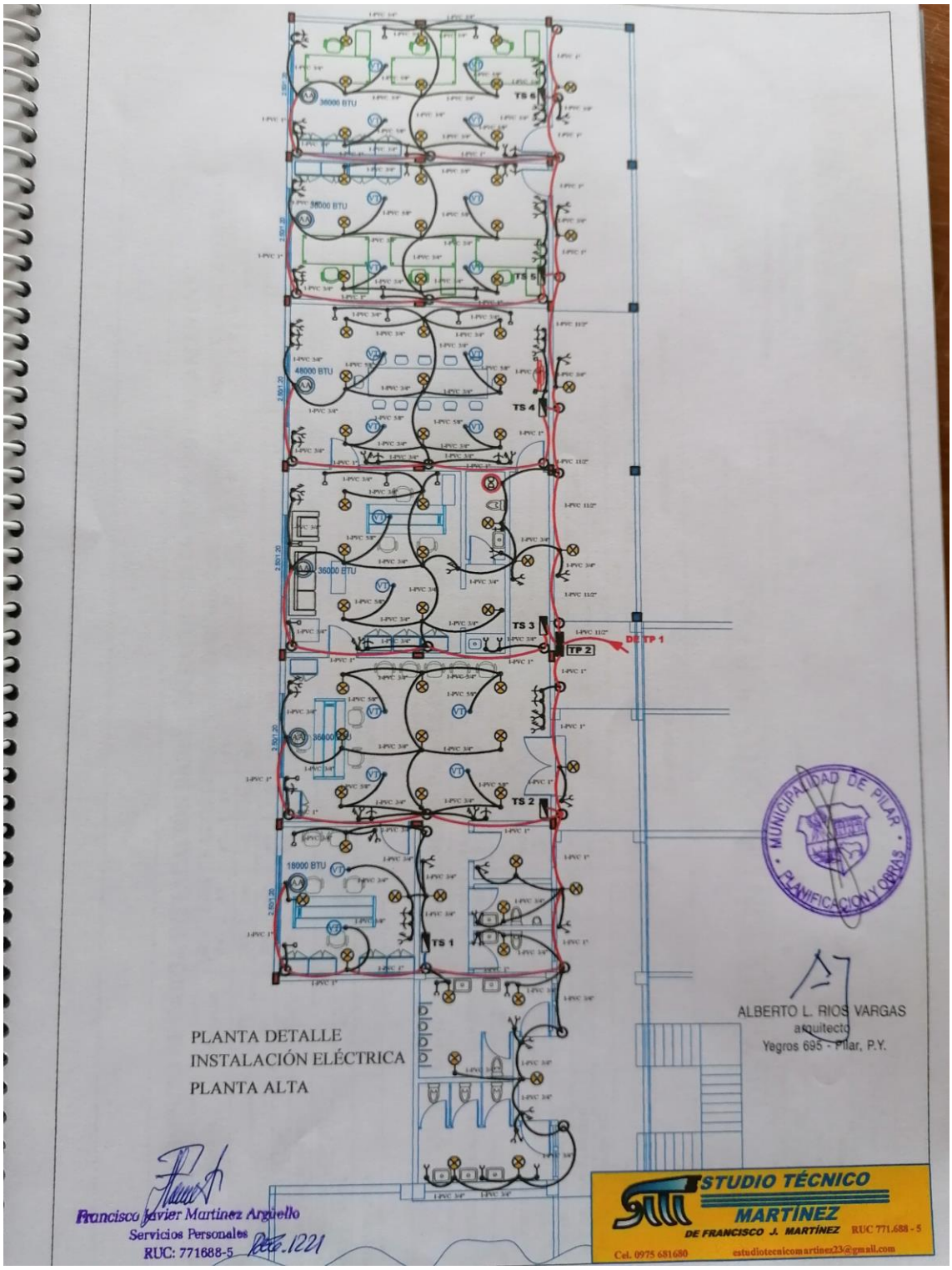


PLANTA DETALLE
INSTALACIÓN ELÉCTRICA
PLANTA ALTA

MUNICIPALIDAD DE PILAR
PLANIFICACIÓN Y OBRAS

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## COMPUTO DE CARGA INSTALACIÓN PABELLÓN FACULTAD DE CIENCIAS CONTABLES UNP

| DETALLE DE CARGA | CANTIDAD | CARGA #1 | CARGA #2 | CARGA #3 | CARGA #4 | CARGA #5 | CARGA # 6 | CARGA #7 | CARGA #8 | CARGA #9 | CARGA #10 | CARGA #10 | CARGA #11 | CARGA #12 | CARGA #13 | CARGA #13 | SUMA DE CARGA EN WATTIOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LUZ | 51 | 700 | 800 | 700 | 800 | 700 | 700 | 700 | | | | | | | | | 5.100 |
| TOMA CORRIENTE | 64 | 900 | 900 | 900 | 900 | 900 | 900 | 1000 | | | | | | | | | 6.400 |
| VENTILADOR DE TECHO | 24 | 400 | 300 | 300 | 300 | 400 | 400 | 300 | | | | | | | | | 2.400 |
| ACOND.DE AIRE 36.000 BTU | 7 | | | | | | | | | 10550 | 10550 | 10550 | 10550 | 10550 | 10550 | 10550 | 73.850 |
| ACOND.DE AIRE 12.000 BTU | 1 | | | | | | | | 3516 | | | | | | | | 3.516 |
| SUMA DE CARGA | 147 | 2000 | 2000 | 1900 | 2000 | 2000 | 2000 | 2000 | 3516 | 10550 | 10550 | 10550 | 10550 | 10550 | 10550 | 10550 | 91266 |
| SUMA POR LINEA | | R = 27.966W | | | | | | | | | S= 31.650 | | | T= 31.650 | | | |

## COMPUTO DE CARGA INSTALACIÓN PABELLÓN FACULTAD DE CIENCIAS CONTABLES UNP

| DETALLE DE CARGA | CANTIDAD | CARGA #1 | CARGA #2 | CARGA #3 | CARGA #4 | CARGA #5 | CARGA #6 | CARGA #7 | CARGA #8 | CARGA #9 | CARGA #10 | CARGA #10 | CARGA #11 | CARGA #12 | CARGA #13 | CARGA #14 | SUMA DE CARGA EN WATTIOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LUZ | 65 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 900 | | | | | | | | 6500 |
| TOMA CORRIENTE | 69 | 800 | 900 | 800 | 900 | 800 | 900 | 900 | 900 | | | | | | | | 6900 |
| VENTILADOR DE TECHO | 21 | 300 | 200 | 300 | 200 | 300 | 300 | 300 | 200 | | | | | | | | 2100 |
| ACOND.DE AIRE 36.000 BTU | 4 | | | | | | | | | | | | 10550 | 10550 | 10550 | 10550 | 42200 |
| ACOND.DE AIRE 48.000 BTU | 1 | | | | | | | | | | | 14067 | | | | | 14067 |
| ACOND.DE AIRE 18.000 BTU | 1 | | | | | | | | | | 5275 | | | | | | 5275 |
| DUCHA CALEFON | 1 | | | | | | | | | 4400 | | | | | | | 4400 |
| SUMA DE CARGA | 162 | 1900 | 1900 | 1900 | 1900 | 1900 | 2000 | 2000 | 2000 | 4400 | 5275 | 14067 | 10550 | 10550 | 10550 | 10550 | 81442 |
| SUMA POR LINEA | | T = 19.900 W | | | | | | | | | S= 29.892 | | | R= 31.650 | | | |

## DISTRIBUCION DE CARGA POR FASE

| DETALLE DE CARGA MEDIDOR GENERAL MG | R | S | T | SUMA DE CARGA EN WATTIOS |
|---|---|---|---|---|
| SALON PLANTA BAJA | 27.966 | 31.650 | 31.650 | 91.266 |
| SALÓN PRIMER PISO | 31.650 | 29.892 | 19.900 | 81.442 |
| | 59.616 | 61.542 | 51.550 | 172.708 |
| SUMA POR LINEA | RST = 172.708 W | | | |

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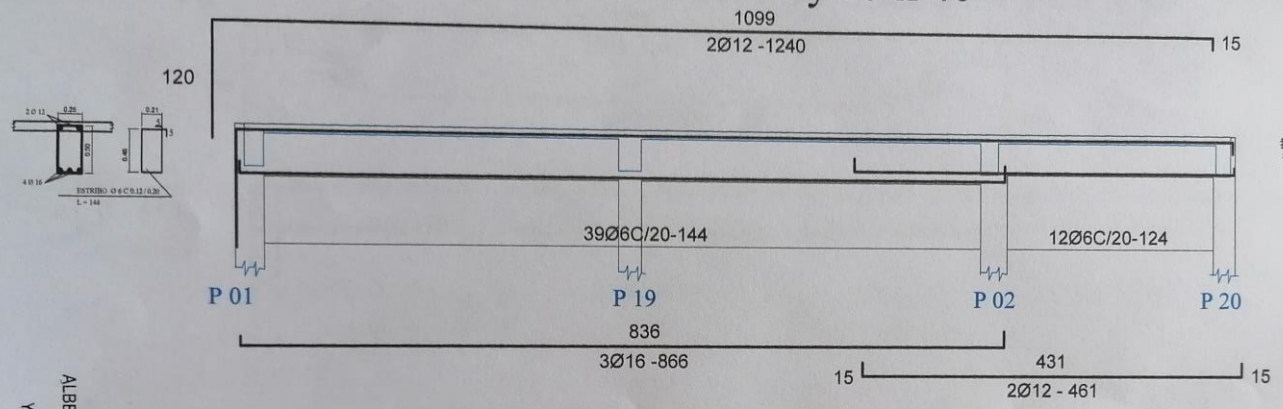
# DETALLE ARMADURA VIGA 1° PISO
# V1 08 Y 08/1 25 x 50 y 25 x 40

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## COMPUTO DE ARMADURA V1 08 Y 08/1 25 x50 Y 25 x 40

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior | X | X | | 2 | 12,40 | | 24,80 | | | | |
| Armadura cordon inferior V8 | X | X | | 3 | 8,66 | 25,98 | | | | | |
| Armadura cordon inferior V⅝ | X | X | | 2 | 4,61 | | 9,22 | | | | |
| Estribos V8 | | | X | 39 | 1,44 | | | | | 14,88 | |
| Estribos V⅝ | | | X | 12 | 1,24 | | | | | 57,16 | |
| **SUMA POR Ø** | | | | | | **25.98** | **34.02** | **#####** | **#####** | **72.04** | **#####** |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | **2.17** | **2.84** | **####** | **####** | **6.00** | **####** |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | **4.33** | **5.67** | **######** | **######** | **12.01** | **######** |

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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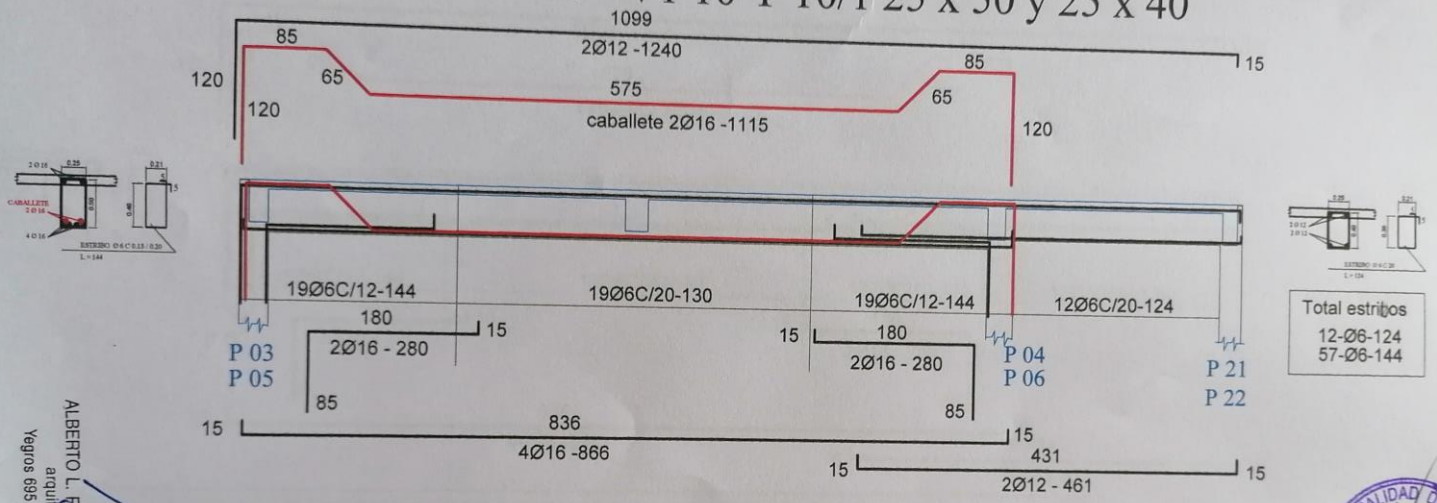
# DETALLE ARMADURA VIGA 1° PISO
# V1 09 Y 09/1 - V1 10 Y 10/1 25 x 50 y 25 x 40






Total estribos
12-Ø6-124
57-Ø6-144

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Yegros 695 - Pilar, P.Y.

## COMPUTO DE ARMADURA V1 09-V10 Y 09/1-10/1 - 25 x 50 Y 25 x 40

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura caballete | X | X | | 4 | 11,15 | 44,60 | | | | | |
| Armadura cordon superior | X | X | | 4 | 12,40 | | 49,60 | | | | |
| Armadura cordon inferior V9 - V10 | X | X | | 8 | 8,66 | 69,28 | | | | | |
| Armadura cordon inferior V 9 / 1 - 10 / 1 | X | X | | 4 | 4,61 | | 18,44 | | | | |
| Armadura empotramiento | X | X | | 8 | 2,80 | 22,40 | 0,00 | | | | |
| Estribos V9 - V10 | | | X | 114 | 1,44 | | | | | 164,16 | |
| Estribos V9 /1 - 10 / 1 | | | X | 24 | 1,24 | | | | | 29,76 | |
| **SUMA POR Ø** | | | | | | **136.28** | **68.04** | **######** | **######** | **193.92** | **######** |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | 11.36 | 5.67 | #### | #### | 16.16 | #### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | 22.71 | 11.34 | ##### | ##### | 32.32 | ##### |

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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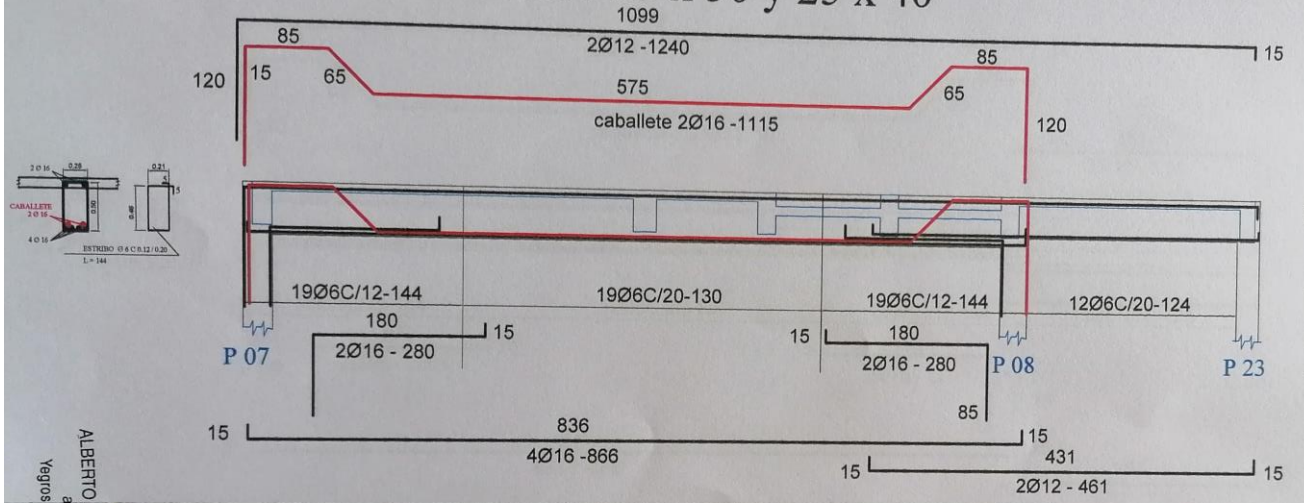
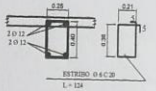
# DETALLE ARMADURA VIGA 1° PISO
## V1 11 Y 11/1 25 x 50 y 25 x 40





Total estribos
12-Ø6-124
57-Ø6-144

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### COMPUTO DE ARMADURA V1 - 11 Y 11/1 - 25 x 50 Y 25 x 40

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura caballete | X | X | | 2 | 11,15 | 22,30 | | | | | |
| Armadura cordon superior | X | X | | 2 | 12,40 | | 24,80 | | | | |
| Armadura cordon inferior V11 | X | X | | 4 | 8,66 | 34,64 | | | | | |
| Armadura cordon inferior V11 / 1 | X | X | | 2 | 4,61 | | 9,22 | | | | |
| Armadura empotramiento | X | X | | 4 | 2,80 | 11,20 | 0,00 | | | | |
| Estribos V11 | | | X | 57 | 1,44 | | | | | 82,08 | |
| Estribos V 11 / 1 | | | X | 12 | 1,24 | | | | | 14,88 | |
| **SUMA POR Ø** | | | | | | **68.14** | **34.02** | ###### | ###### | **96.96** | ###### |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | 5.68 | 2.84 | ##### | ##### | 8.08 | ##### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | 11.36 | 5.67 | ###### | ###### | 16.16 | ###### |

MUNICIPALIDAD DE PILAR
PLANIFICACION Y OBRAS

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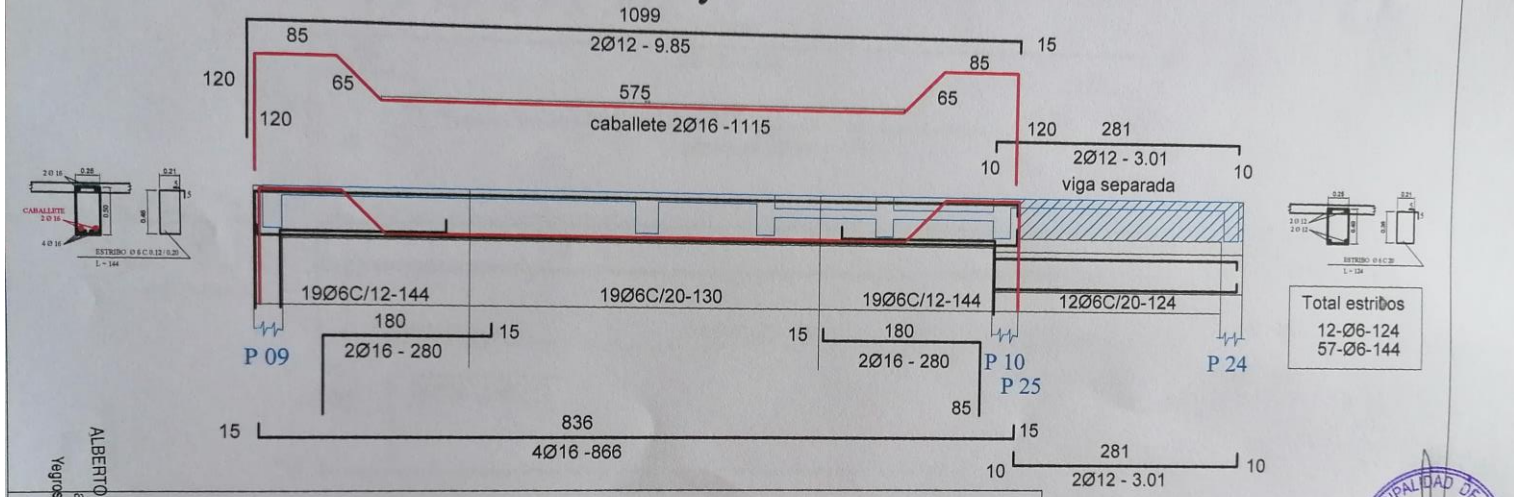
# DETALLE ARMADURA VIGA 1° PISO
# V1 12 Y 12/1 25 x 50 y 25 x 40




## COMPUTO DE ARMADURAV1 12 Y 12/1 - 25 x 50 Y 25 x 40

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura caballete | X | X | | 2 | 11,15 | 22,30 | | | | | |
| Armadura cordon superior | X | X | | 2 | 12,86 | | 25,72 | | | | |
| Armadura cordon inferior V12 | X | X | | 4 | 8,66 | 34,64 | | | | | |
| Armadura cordon inferior V12 /1 | X | X | | 2 | 4,61 | | 9,22 | | | | |
| Armadura empotramiento | X | X | | 4 | 2,80 | 11,20 | 0,00 | | | | |
| Estribos V12 | | | X | 57 | 1,44 | | | | | 82,08 | |
| Estribos V 12 / 1 | | | X | 12 | 1,24 | | | | | 14,88 | |
| **SUMA POR Ø** | | | | | | **68.14** | **34.94** | ###### | ###### | **96.96** | ###### |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | 5.68 | 2.91 | #### | #### | 8.08 | #### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | 11.36 | 5.82 | ###### | ###### | 16.16 | ###### |

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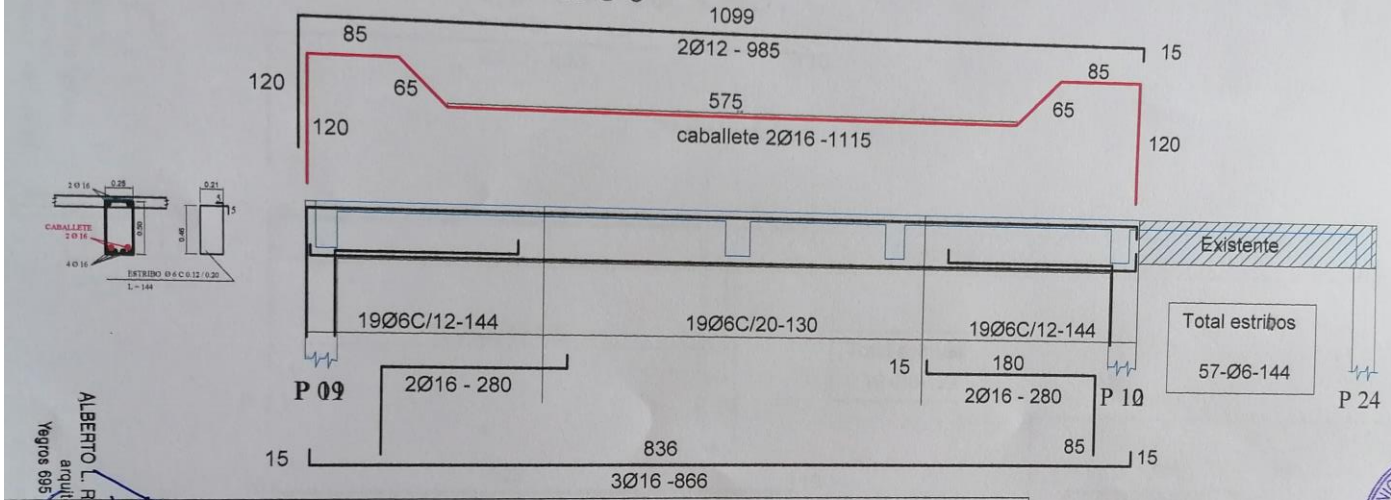
# DETALLE ARMADURA VIGA 1° PISO
# V1 13 25 x 50







## COMPUTO DE ARMADURA V1 V13 - 25 x 50

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura caballete | X | X | | 2 | 11,15 | 22,30 | | | | | |
| Armadura cordon superior | X | X | | 2 | 9,85 | | 19,70 | | | | |
| Armadura cordon inferior | X | X | | 4 | 8,66 | 34,64 | | | | | |
| Armadura cordon inferior | X | X | | 2 | 4,61 | | 9,22 | | | | |
| Armadura empotramiento | X | X | | 4 | 2,80 | 11,20 | 0,00 | | | | |
| Estribos V13 | | | X | 57 | 1,44 | | | | | 82,08 | |
| **SUMA POR Ø** | | | | | | **68.14** | **28.92** | ##### | ##### | **82.08** | ##### |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | 5.68 | 2.41 | #### | #### | 6.84 | #### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | 11.36 | 4.82 | ##### | ##### | 13.68 | ##### |

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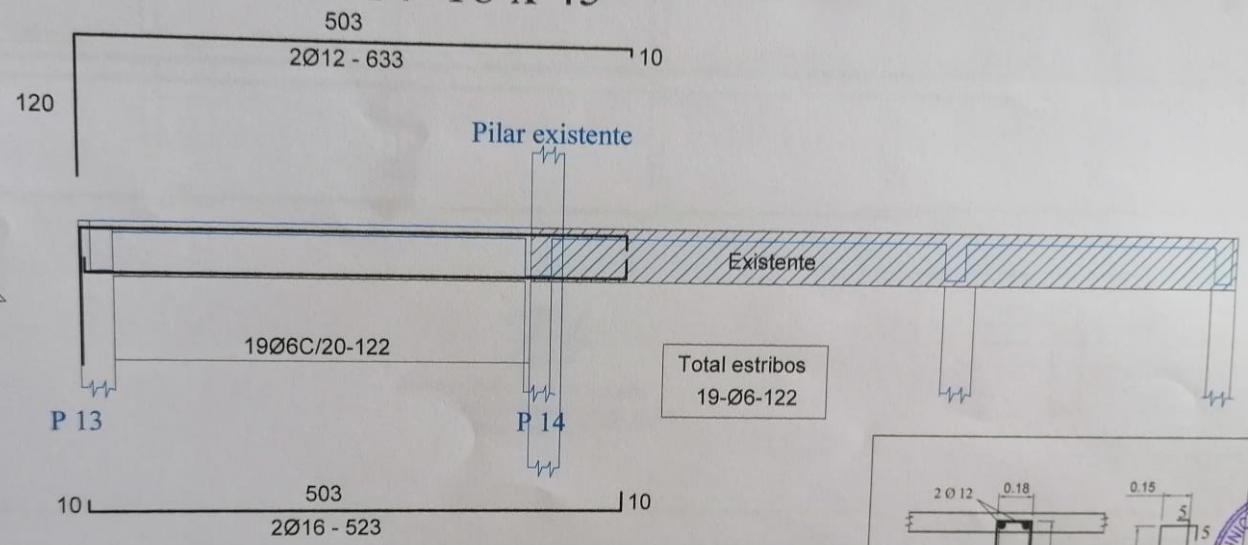
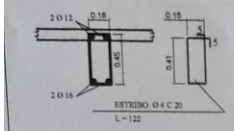
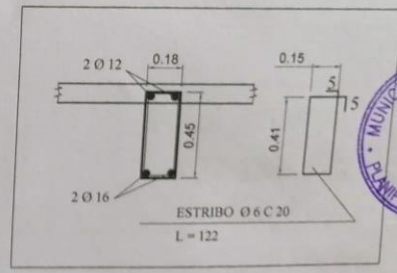
# DETALLE ARMADURA VIGA 1° PISO
# V1 14 18 x 45




## COMPUTO DE ARMADURA V1 14 18 x 45

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior | X | X | | 2 | 6,33 | | 19,70 | | | | |
| Armadura cordon inferior | X | X | | 2 | 5,23 | 34,64 | | | | | |
| Estribos V14 | | | X | 57 | 1,44 | | | | | 82,08 | |
| **SUMA POR Ø** | | | | | | **34.64** | **19.70** | **#####** | **#####** | **82.08** | **#####** |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | 2.89 | 1.64 | ##### | ##### | 6.84 | ##### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | 5.77 | 3.28 | ###### | ###### | 13.68 | ###### |

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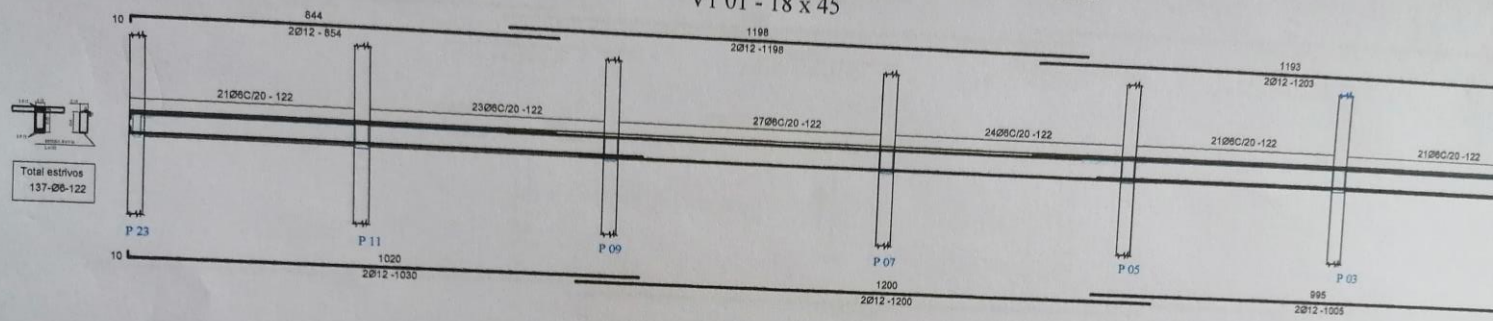
## DETALLE ARMADURA VIGA 1° PISO
## V1 01 - 18 x 45

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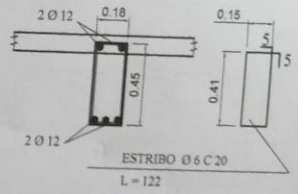


Total estribos
137-Ø6-122

### COMPUTO DE ARMADURA V1 01 18 x 45

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior | X | X | | 2 | 32,55 | | 65,10 | | | | |
| Armadura cordon inferior | X | X | | 3 | 32,35 | | 97,05 | | | | |
| Estribos V 01 | | | X | 137 | 1,22 | | | | | 167,14 | |
| **SUMA POR Ø** | | | | | | ##### | **162.15** | ##### | ##### | **167.14** | ##### |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | ##### | 13.51 | ##### | ##### | 13.93 | ##### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | ##### | 27.02 | ###### | ###### | 27.86 | ###### |

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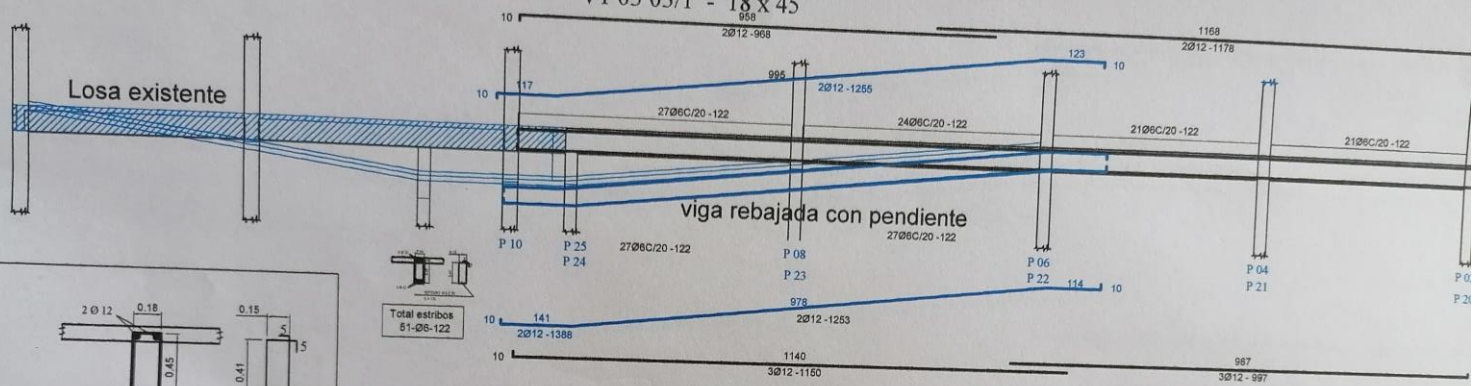
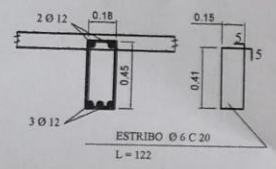
# DETALLE ARMADURA VIGA 1° PISO
## V1 03 03/1 - 18 x 45




**Total estribos**
**51-Ø6-122**

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REG. 1221

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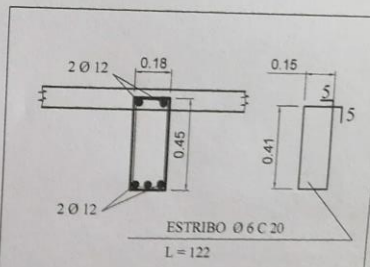


**Total estribos**
**93-Ø6-122**

## COMPUTO DE ARMADURA V1 03 03 /1 18 x 45

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior V03 | X | X | | 2 | 21,46 | | 12,92 | | | | |
| Armadura cordon inferior V03 | X | X | | 3 | 21,46 | | 64,38 | | | | |
| Armadura cordon superior V 03 / 1 | X | X | | 2 | 12,55 | | 25,10 | | | | |
| Armadura cordon inferior V 03 / 1 | X | X | | 3 | 12,55 | | 37,68 | | | | |
| Estribos V3 /1 | | | X | 93 | 1,22 | | | | | 113,46 | |
| Estribos V3 /1 Inclinada | | | X | 51 | 1,22 | | | | | 62,22 | |
| **SUMA POR Ø** | | | | | | ##### | **140.08** | ###### | ###### | **175.68** | ###### |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | ##### | 11.67 | ##### | ##### | 14.64 | ##### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | ##### | **23.35** | ###### | ###### | **29.28** | ###### |

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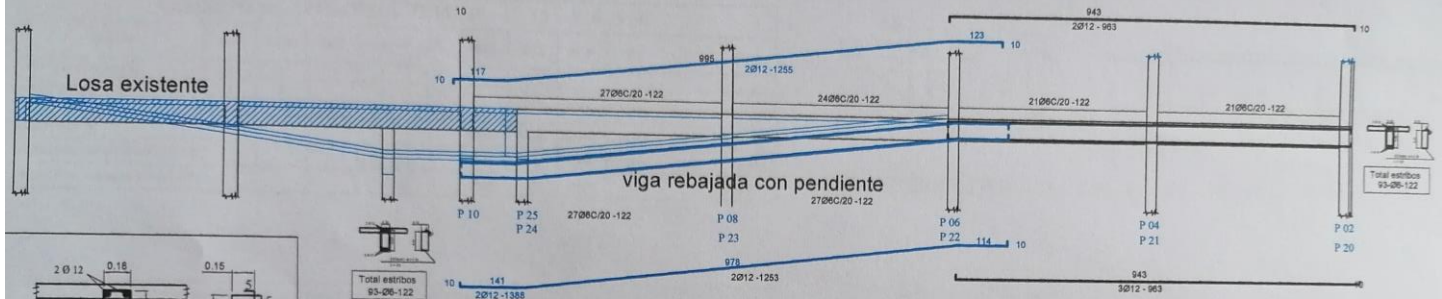
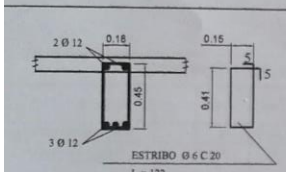
# DETALLE ARMADURA VIGA 1° PISO
## V1 04 - 18 x 45




Total estribos
93-Ø6-122

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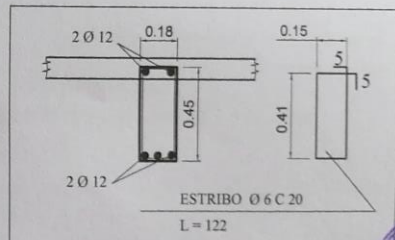
DEG. 1221




Total estribos
93-Ø6-122

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## COMPUTO DE ARMADURA V1 04 18 x 45

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior V03 | X | X | | 2 | 9,63 | | 19,26 | | | | |
| Armadura cordon inferior V03 | X | X | | 3 | 9,63 | | 28,90 | | | | |
| Armadura cordon superior V 03 / 1 | X | X | | 2 | 12,55 | | 25,10 | | | | |
| Armadura cordon inferior V 03 / 1 | X | X | | 3 | 12,55 | | 37,68 | | | | |
| Estribos V3 /1 | | | X | 42 | 1,22 | | | | | 51,54 | |
| Estribos V3 /1 Inclinada | | | X | 51 | 1,22 | | | | | 62,22 | |
| **SUMA POR Ø** | | | | | | ##### | 110.94 | ###### | ###### | 113.76 | ###### |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | ##### | 9,24 | ##### | ##### | 9,48 | ##### |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | ##### | 18.49 | ###### | ###### | 18.96 | ###### |


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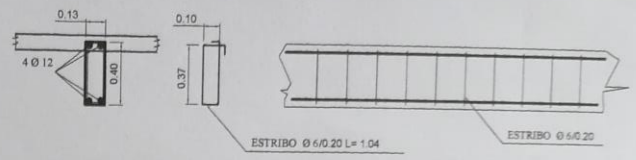
## COMPUTO DE ARMADURA V1 15 - 16 - 17 13 x 40 6.75 ml

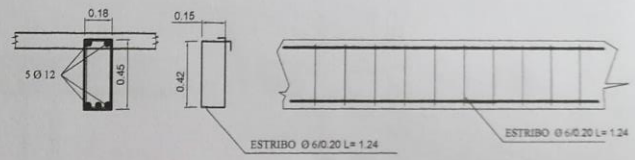
| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior | X | X | | 2 | 6,75 | | 13,50 | | | | |
| Armadura cordon inferior | X | X | | 2 | 6,75 | | 13,50 | | | | |
| Estribos V14 | | | X | 34 | 1,04 | | | | | 35,00 | |
| **SUMA POR Ø** | | | | | | **#####** | **27.00** | **#####** | **#####** | **35.00** | **#####** |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | **####** | **2.25** | **####** | **####** | **2.92** | **####** |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | **####** | **4.50** | **#####** | **#####** | **5.83** | **#####** |




VIGAS PRIMER PISO 0.13 x 0.40 V1 ...15 - 16 - 17 L = 6.75 ml

## COMPUTO DE ARMADURA V1 05 - 06 - 07 18 x 45 13.40 ml

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior | X | X | | 2 | 13,40 | | 26,80 | | | | |
| Armadura cordon inferior | X | X | | 3 | 13,40 | | 40,20 | | | | |
| Estribos V14 | | | X | 67 | 1,24 | | | | | 83,00 | |
| **SUMA POR Ø** | | | | | | **#####** | **67.00** | **#####** | **#####** | **83.00** | **#####** |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | **####** | **5.58** | **####** | **####** | **6.92** | **####** |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | **####** | **11.17** | **#####** | **#####** | **13.83** | **#####** |




VIGAS PRIMER PISO 0.18 x 0.45 V1 ...05 - 06 - 07 L= 13.40 ml

## COMPUTO DE ARMADURA Viga superior 13 x 30 175.27 ml

| Aplicacion | Eje X | Eje Y | Eje Z | Cant | Long. | Ø 16 | Ø 12 | Ø 10 | Ø 8 | Ø 6 | Ø 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Armadura cordon superior | X | X | | 2 | 175,27 | | 351,00 | | | | |
| Armadura cordon inferior | X | X | | 2 | 175,27 | | 351,00 | | | | |
| Estribos V14 | | | X | 876 | 0,84 | | | | | 736,00 | |
| **SUMA POR Ø** | | | | | | **#####** | **702.00** | **#####** | **#####** | **736.00** | **#####** |
| **SUMA POR BARRAS DE 12.00 MT.** | | | | | | **####** | **58.50** | **####** | **####** | **61.33** | **####** |
| **SUMA POR BARRAS DE 6.00 MT.** | | | | | | **####** | **117.00** | **#####** | **#####** | **122.67** | **#####** |

VIGA SUPERIOR PRIMER PISO 0.13 x 0.30 x 175.27 ml

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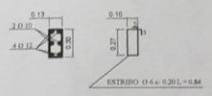
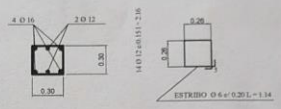
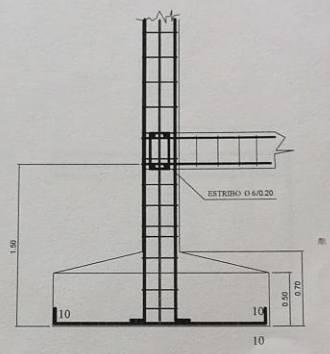
MUNICIPALIDAD PLANIFICACION

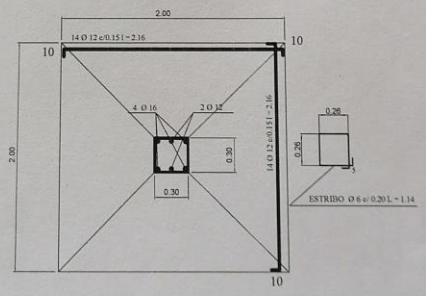
## DETALLE PILARES PA
## P - 01 - AL 11 - 13




## DETALLE PILARES PB
## P - 01 - AL 11 - 13




## DETALLE ZAPATAS
## Z - 01 - 02 - 13 - 04
## Z - 05 - 06 - 07 - 08
## Z - 09 - 11 - 13

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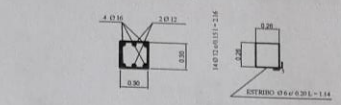
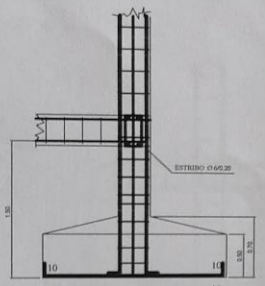
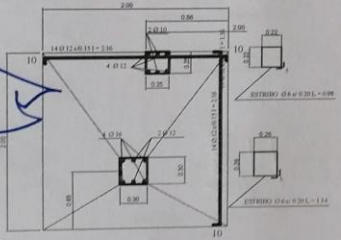
DETALLE PILARES PB
P - 10

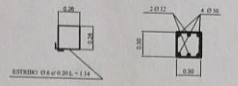


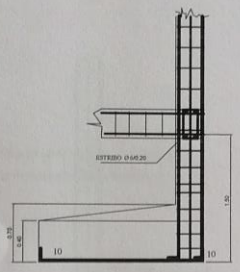


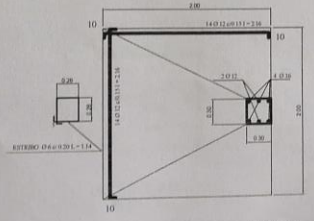


DETALLE ZAPATAS
Z - 10

DETALLE PILARES PB
P - 12

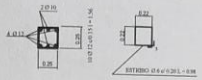


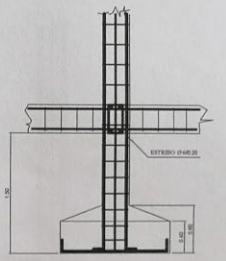


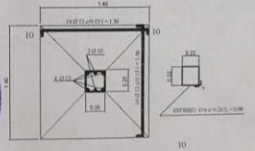


DETALLE ZAPATAS
Z - 12

DETALLE PILARES PB
P - 15 - AL - 19







DETALLE ZAPATAS
Z- 15 - AL - 19

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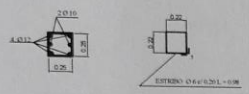
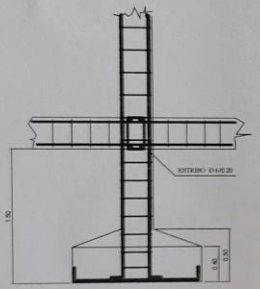
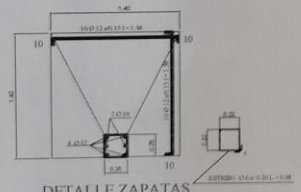
DETALLE PILARES PB
P - 14

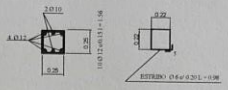


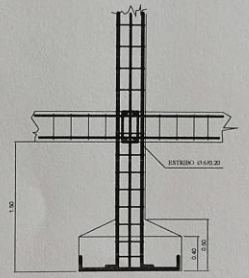


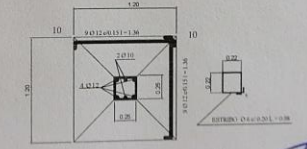


DETALLE ZAPATAS
Z- 14

DETALLE PILARES PB
P - 20 - AL - 23

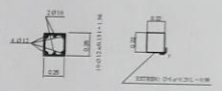


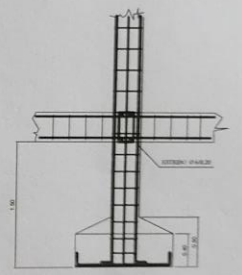


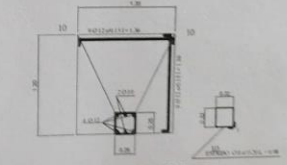


DETALLE ZAPATAS
Z- 20 - AL - 23

DETALLE PILARES PB
P - 24







DETALLE ZAPATAS
Z- 24

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