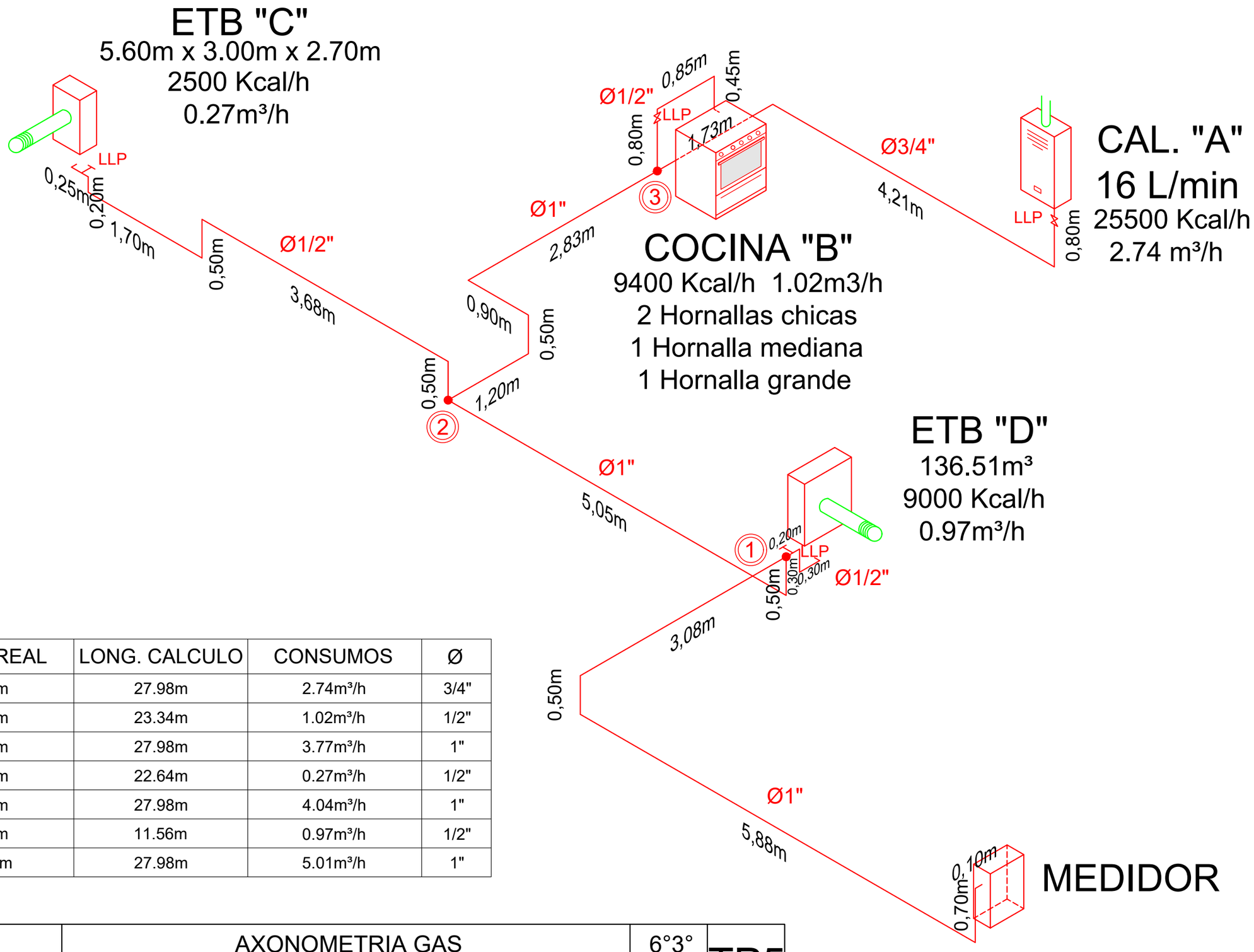
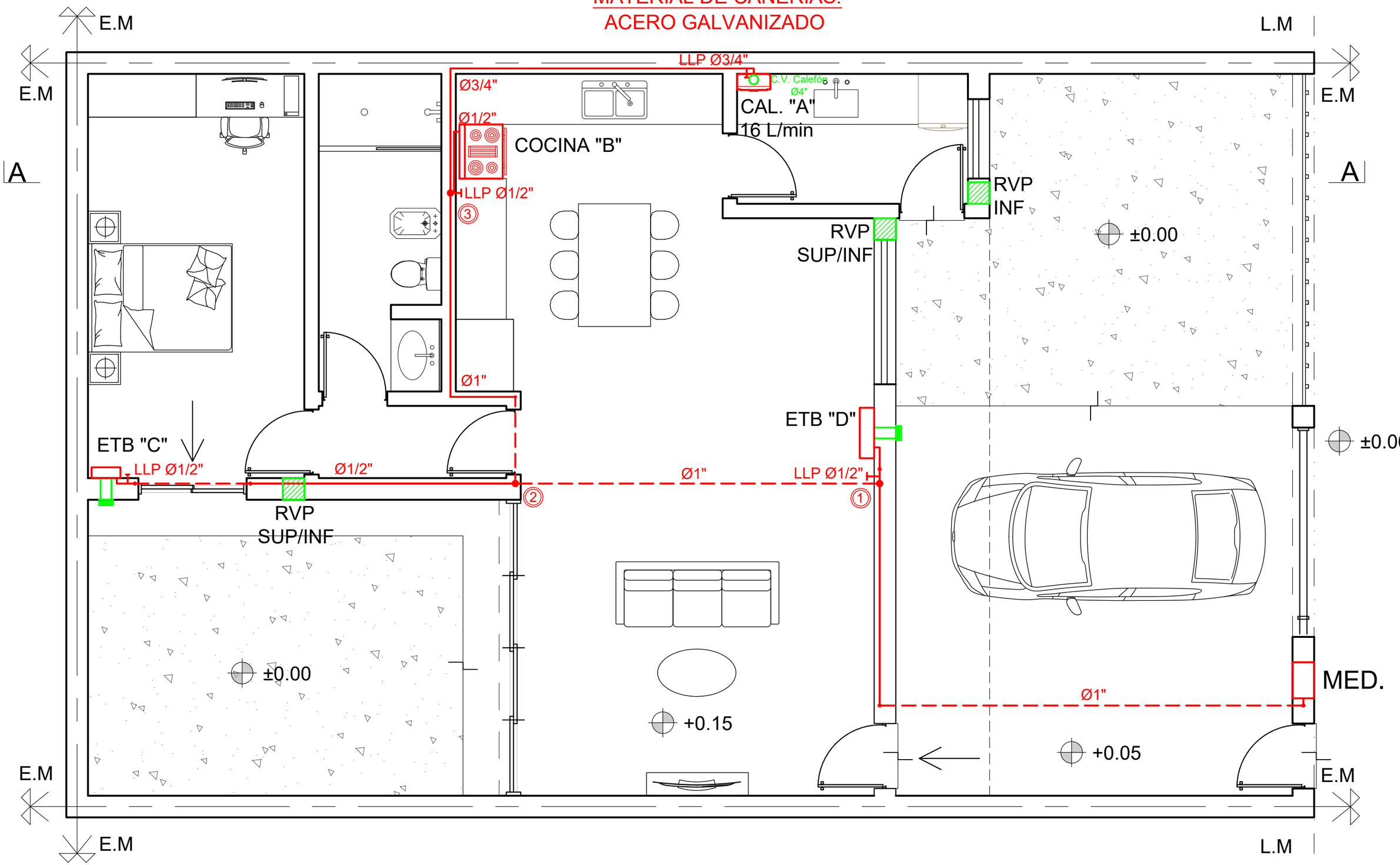
ESCALA DIBUJO
1:50
ESCALA COTAS
1:100



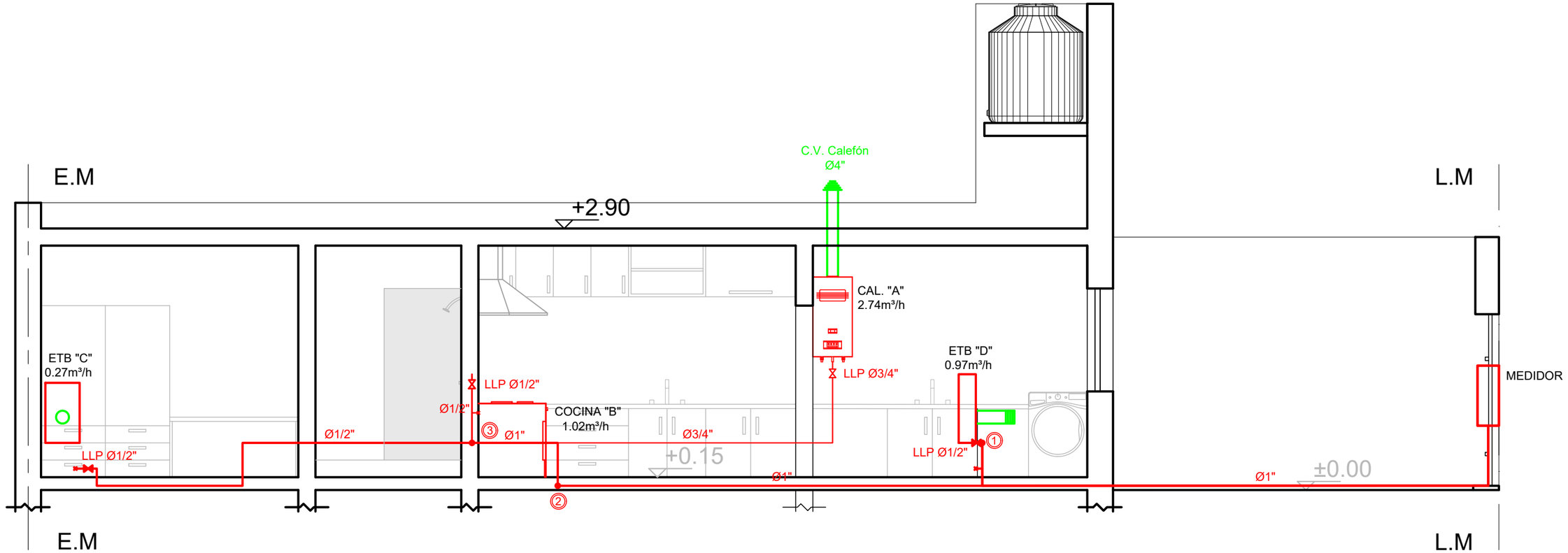

| TRAMOS | LONG. REAL | LONG. CALCULO | CONSUMOS | Ø |
|---|---|---|---|---|
| A - 3 | 6.74m | 27.98m | 2.74m³/h | 3/4" |
| B - 3 | 2.10m | 23.34m | 1.02m³/h | 1/2" |
| 3 - 2 | 5.43m | 27.98m | 3.77m³/h | 1" |
| C - 2 | 6.83m | 22.64m | 0.27m³/h | 1/2" |
| 2 - 1 | 5.55m | 27.98m | 4.04m³/h | 1" |
| D - 1 | 0.80m | 11.56m | 0.97m³/h | 1/2" |
| 1 - Med | 10.26m | 27.98m | 5.01m³/h | 1" |

| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | AXONOMETRIA GAS | 6°3° | | TP5 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | TM | 2/4 | |

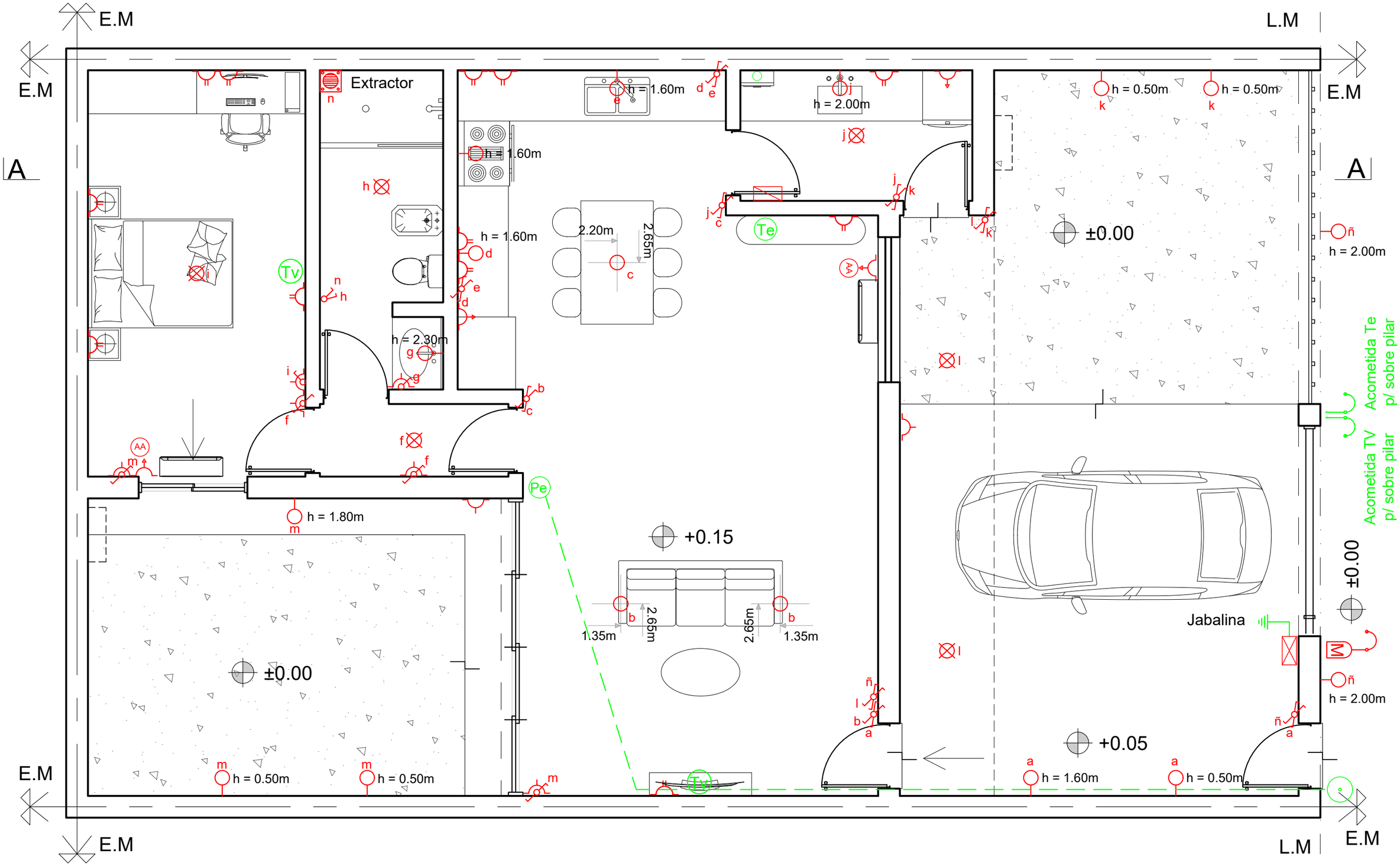
# MATERIAL DE CAÑERIAS:
# ACERO GALVANIZADO




| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | PLANTA BAJA / ESC. 1:50 | GAS | 6°3° | TP5 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 1/4 | |




| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | CORTE A-A / ESC. 1:50 | GAS | 6°3° | TP5 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 4/4 | |

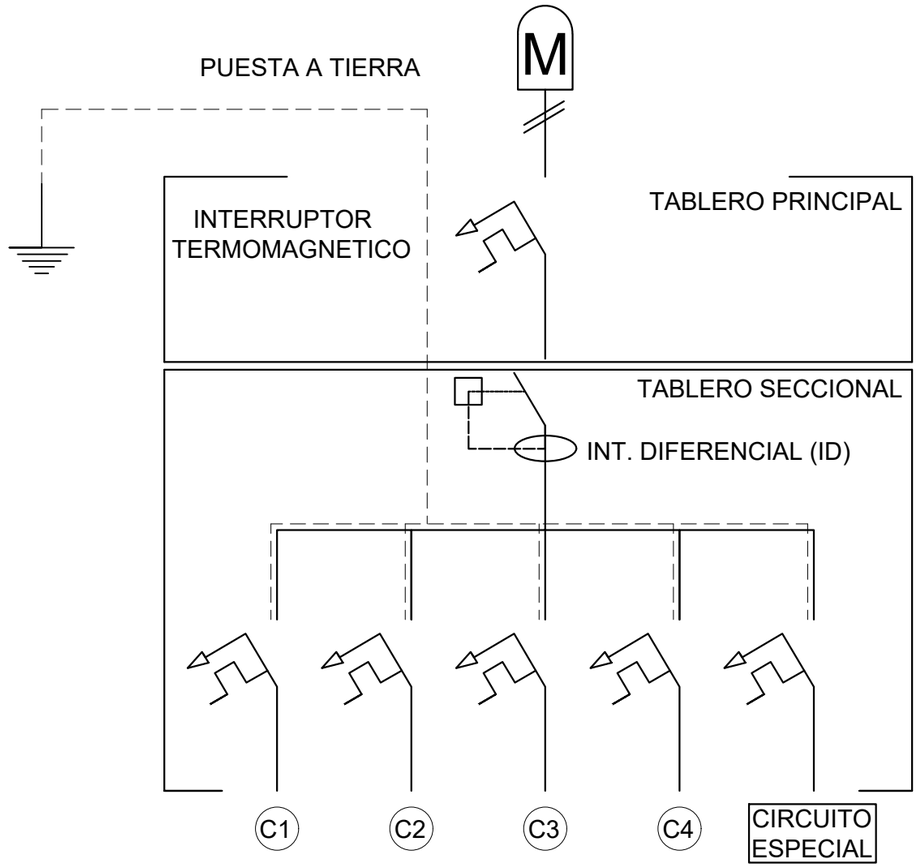



| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | PLANTA BAJA / ESC. 1:50 | INSTALACIÓN ELÉCTRICA | 6°3° | TP6 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 1/2 | |

# REFERENCIAS

| SIMBOLO | DESCRIPCION |
|---|---|
| | CAÑO CORRUGADO PLASTICO NARANJA APROBADO |
| M | CAJA DE MEDIDOR. |
| | TABLERO PRINCIPAL. |
| | TABLERO SECUNDARIO. |
| | FRENTE PORTERO ELECTRICO |
| Pe | PORTERO ELECTRICO |
| | ACOMETIDA |
| AA | AIRE ACONDICIONADO. |
| Tv | TELEVISION. |
| Te | TELEFONO |
| | BOCA CENTRO DE TECHO. |
| | BOCA DE TECHO. |
| | BOCA DE PARED. |
| | TOMA C/DESCARGA A TIERRA 20AMP. H: 2.2 mts |
| | TOMA DOBLE 10AMP. |
| | TOMA SIMPLE 10AMP. |
| | LLAVE 1 PUNTO. |
| | LLAVE 2 PUNTOS. |
| | LLAVE COMBINADA 1 PUNTO. |
| | LLAVE COMBINADA 2 PUNTO. |
| | PUESTA A TIERRA. |
| | EXTRACTOR DE FUERZA MOTRIL. |
| | LLAVE 1 PUNTO CON TOMA. |
| | LLAVE COMBINADA 1 PUNTO CON TOMA. |

# DIAGRAMA UNIFILAR




CANTIDAD DE BOCAS POR LOCALES

Estar/Cocina-Comedor: 20
Garaje/Jardín: 9
Dormitorio: 10
Lavadero: 5
Exterior: 2
Pasillo: 2
Baño: 5
Patio: 4

TOTAL DE BOCAS: 57

| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | PLANTA BAJA / ESC. 1:50 | PLANILLAS ELECTRICIDAD | 6°3° | TP6 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 2/2 | |

## DISTANCIA DE ARTEFACTOS HASTA EL MEDIDOR

A-Med = 0.80m + 4.21m +1.73m + 2.83m + 0.90m + 0.50m + 1.20m + 5.05m + 0.50m + 3.08m + 0.50m + 5.88m 0.70m + 0.10m = 27,98m
B-Med = 0.45m + 0.85 + 0.80m + 2.83m + 0.90m + 0.50m + 1.20m + 5.05m + 0.50m + 3.08m + 0.50m + 5.88m 0.70m + 0.10m = 23.34m
C-Med = 0.25m + 0.20m + 1.70m + 0.50m + 3.68m + 0.50m + 5.05m + 0.50m + 3.08m + 0.50m + 5.88m 0.70m + 0.10m = 22,64m
D-Med = 0.30m + 0.30m + 0.20m + 0.50m + 3.08m + 0.50m + 5.88m 0.70m + 0.10m = 11.56m

## CALCULO DE CONSUMOS

Calefón "A"

$$\frac{25500Kcal/h}{9300Kcal/m^3} = 2.74m^3/h$$

Cocina "B"

$$\overset{\text{Hornallas chicas}}{2 \times 1000Kcal/h} + \overset{\text{Hornalla mediana}}{1400Kcal/h} + \overset{\text{Hornalla grande}}{2000Kcal/h} \Longrightarrow \overset{\text{Quemadores de horno}}{5400Kcal/h + 4000Kcal/h} = 9400Kcal/h \Longrightarrow \frac{9400Kcal/h}{9300Kcal/m^3} = 1.02m^3/h$$

Estufa "C" 5.60m x 3.00m x 2.70m

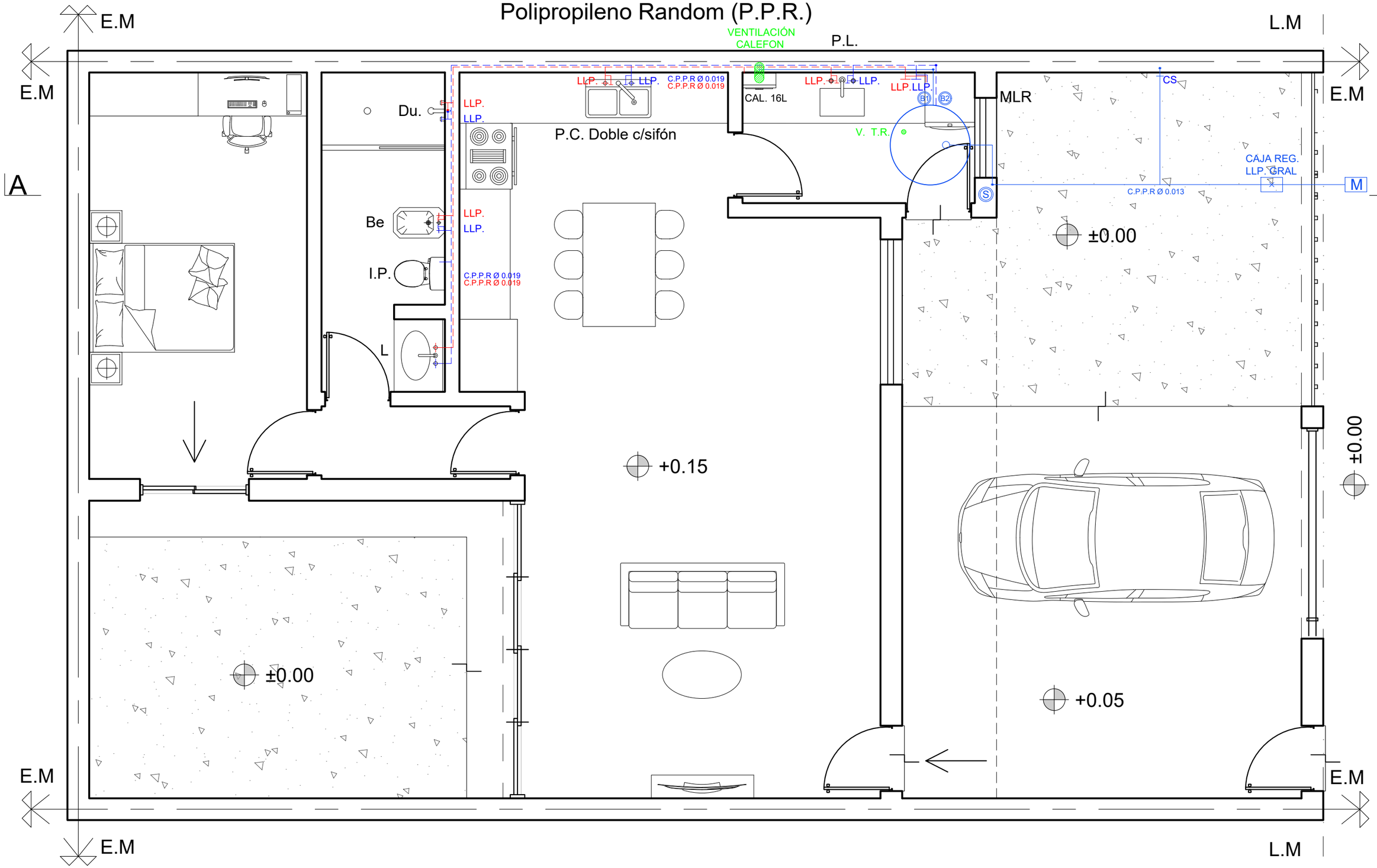
$$45.36m^3 \times \frac{50\ Kcal/h}{m^3} = 2.268Kcal/h \Longrightarrow \text{Adopto medida comercial} = 2500Kcal/h \Longrightarrow \frac{2500Kcal/h}{9300Kcal/m^3} = 0.27m^3/h$$

Estufa "D" (8.00m x 4.90m x 2.70m) + (4.4m x 0.90m x 2.70m) + (3.70m x 2.00m x 2.70m)

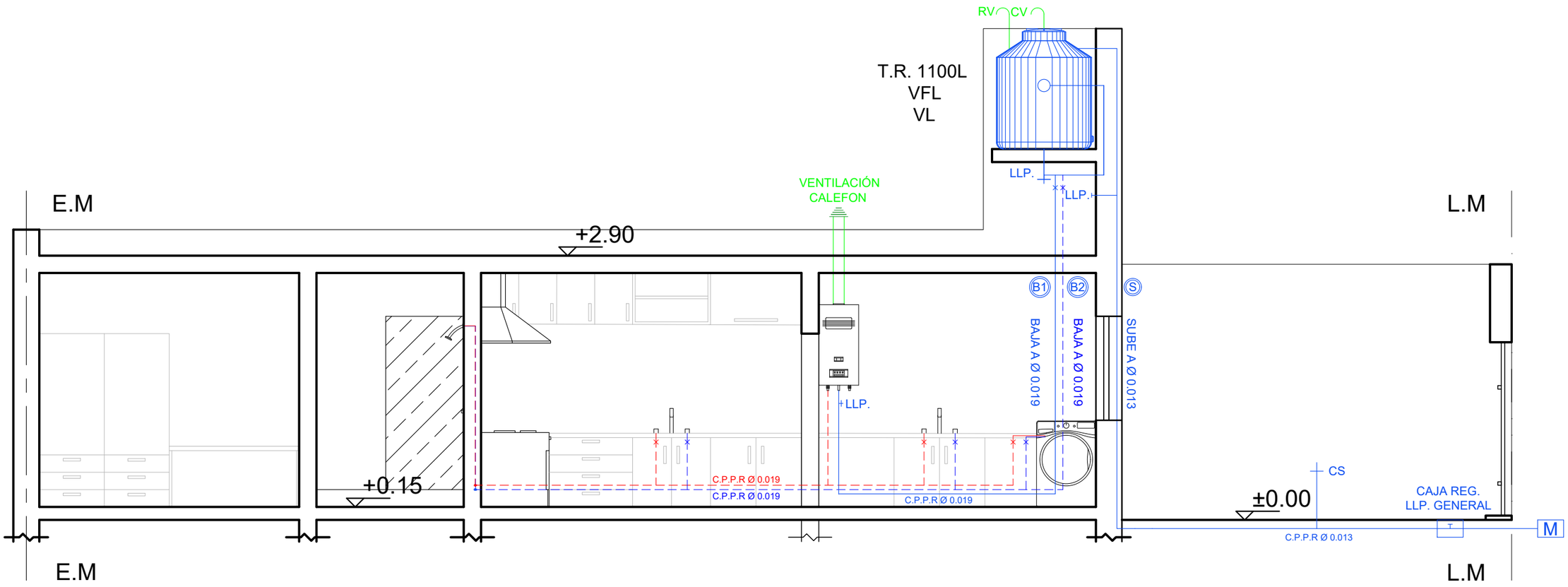
$$136.51m^3 \times \frac{50\ Kcal/h}{m^3} = 6.825Kcal/h \Longrightarrow \text{Adopto medida comercial} = 9000Kcal/h \Longrightarrow \frac{9000Kcal/h}{9300Kcal/m^3} = 0.97m^3/h$$

| TRAMOS | LONG. REAL | LONG. CALCULO | CONSUMOS | Ø |
|---|---|---|---|---|
| A - 3 | 6.74m | 27.98m | 2.74m³/h | 3/4" |
| B - 3 | 2.10m | 23.34m | 1.02m³/h | 1/2" |
| 3 - 2 | 5.43m | 27.98m | 3.77m³/h | 1" |
| C - 2 | 6.83m | 22.64m | 0.27m³/h | 1/2" |
| 2 - 1 | 5.55m | 27.98m | 4.04m³/h | 1" |
| D - 1 | 0.80m | 11.56m | 0.97m³/h | 1/2" |
| 1 - Med | 10.26m | 27.98m | 5.01m³/h | 1" |

# MATERIAL DE CAÑERIAS:
## Polipropileno Random (P.P.R.)

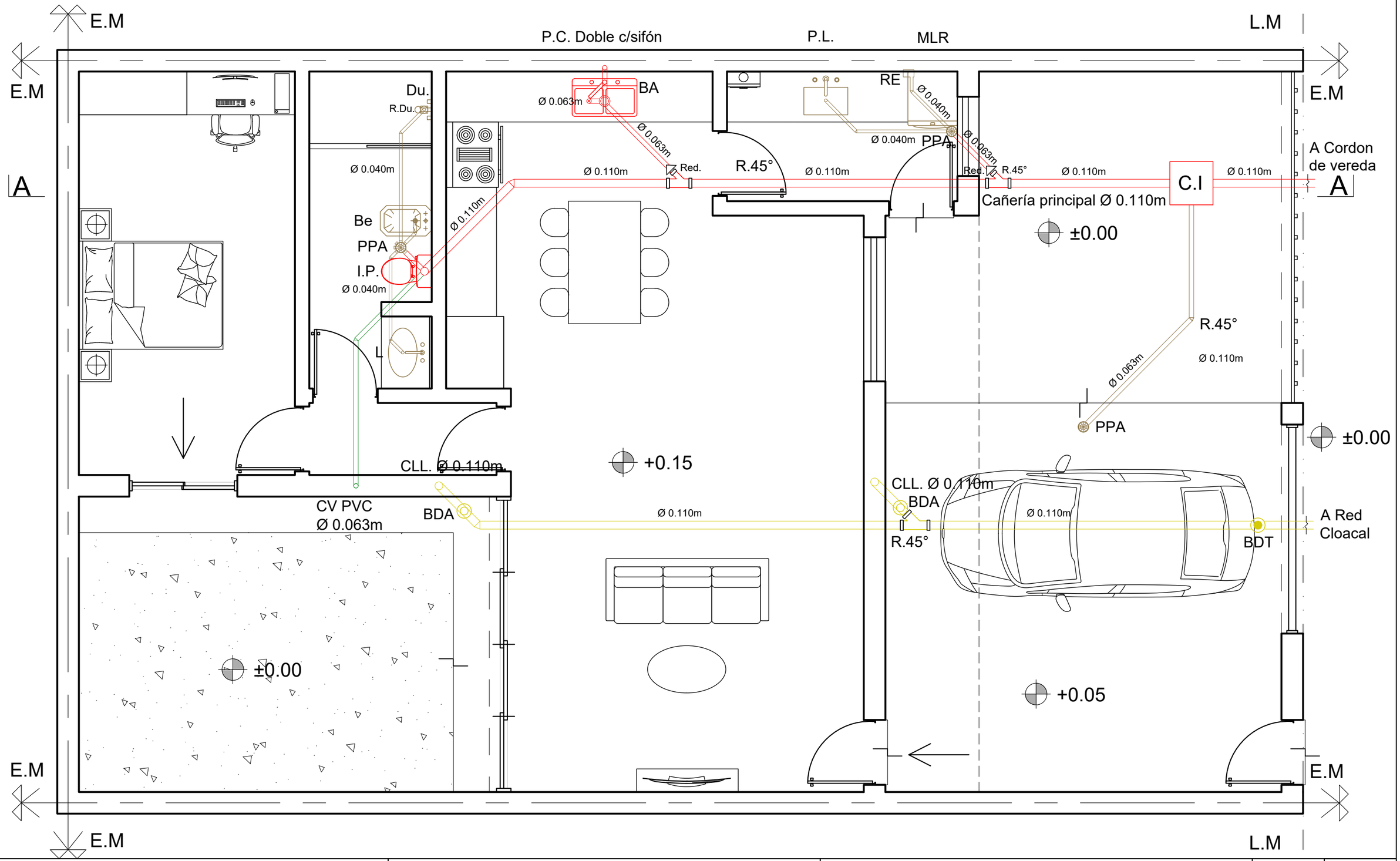



| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | PLANTA BAJA | AGUA FRIA Y CALIENTE | 6°3° | TP4 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 5/6 | |

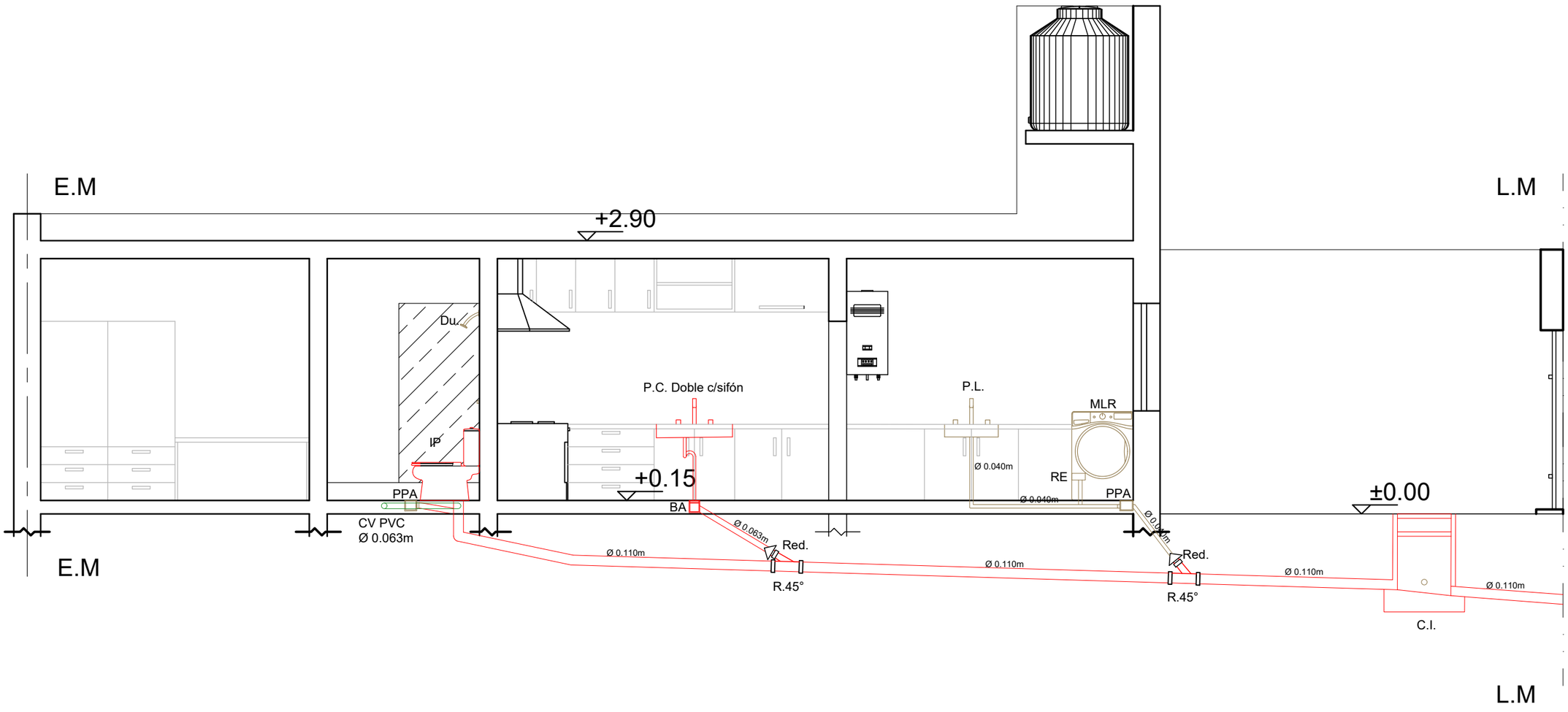



| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | CORTE A-A | AGUA FRIA Y CALIENTE | 6°3° | TP4 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 6/6 | |

# MATERIAL DE CAÑERIAS: PVC

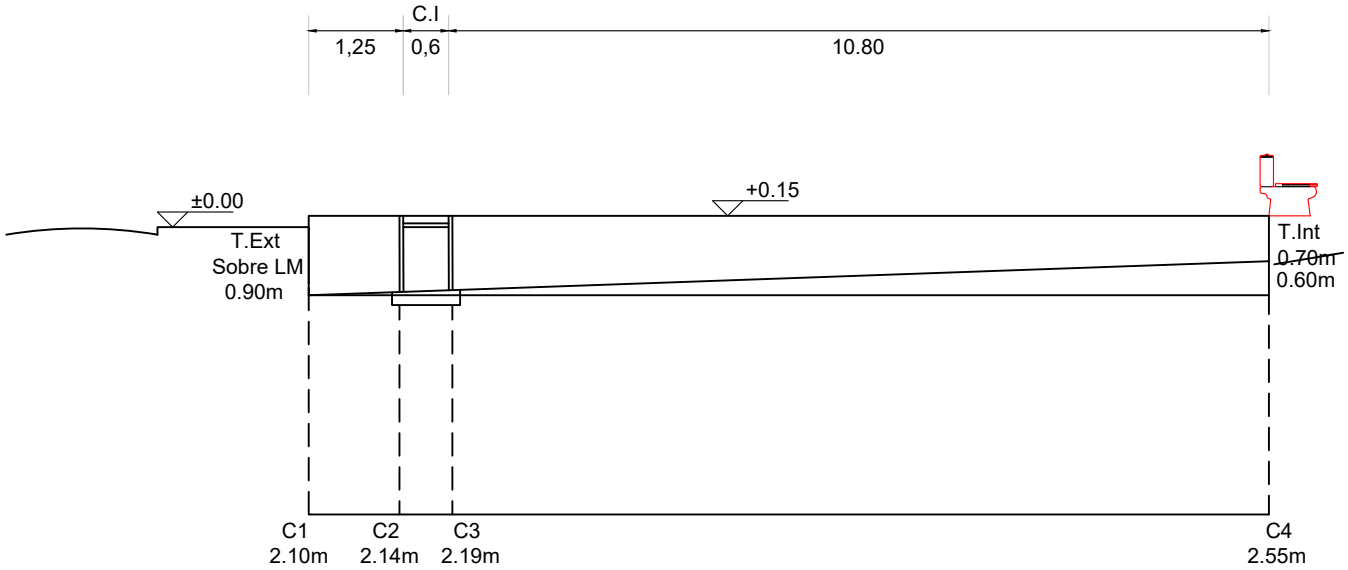



| | | | | |
|---|---|---|---|---|
| INSTALACIONES III | PLANTA PLUVIOCLOACAL | PLUVIOCLOACAL | 6°3° | TP4 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM 1/4 | |




# Pendiente 1:33 (3cm/m)

| | | | | | |
|---|---|---|---|---|---|
| INSTALACIONES III | CORTE A-A | CLOACAL | 6°3° | | TP4 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM | 3/4 | |




D = 0.90m + 0.15m - 0.05m - 0.70m
D = 0.30m

L = 1.25m + 10.80m = 12,05m

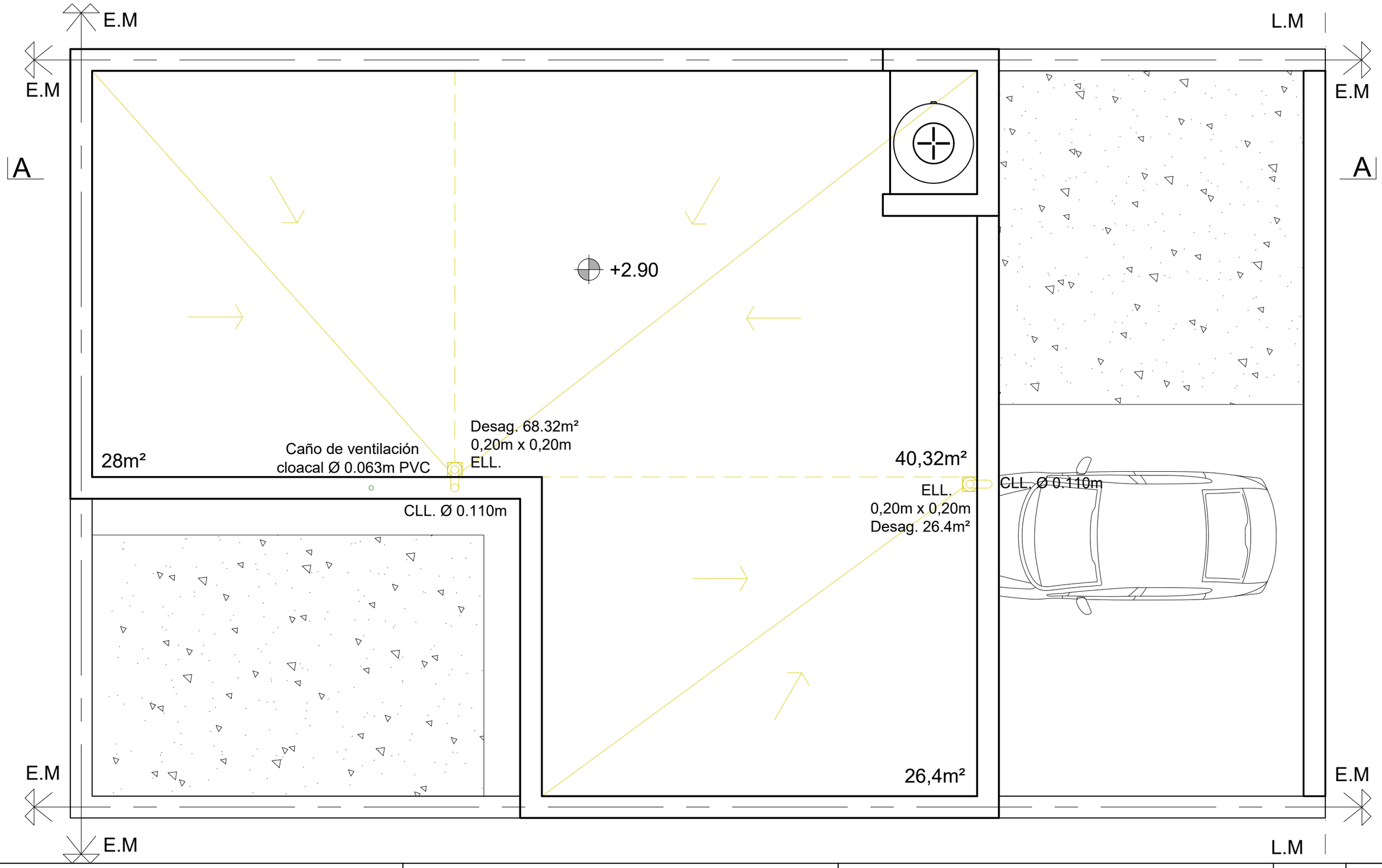
$$P = \frac{D}{L} = \frac{0.30m}{12.05m} = 0.025m$$ Adopto 1:33 (3cm/m)

C1 = 3.00m - 0.90m = 2.10m
C2 = 2.10m + (0.03m x 1.25m) = 2.14m
C3 = 2.14m + 0.05m = 2.19m
C4 = 2.19m + (12.05m x 0.03m) = 2.55m

VERIFICACIÓN: 3.00m + 0.15m - 2.55m = 0.60m

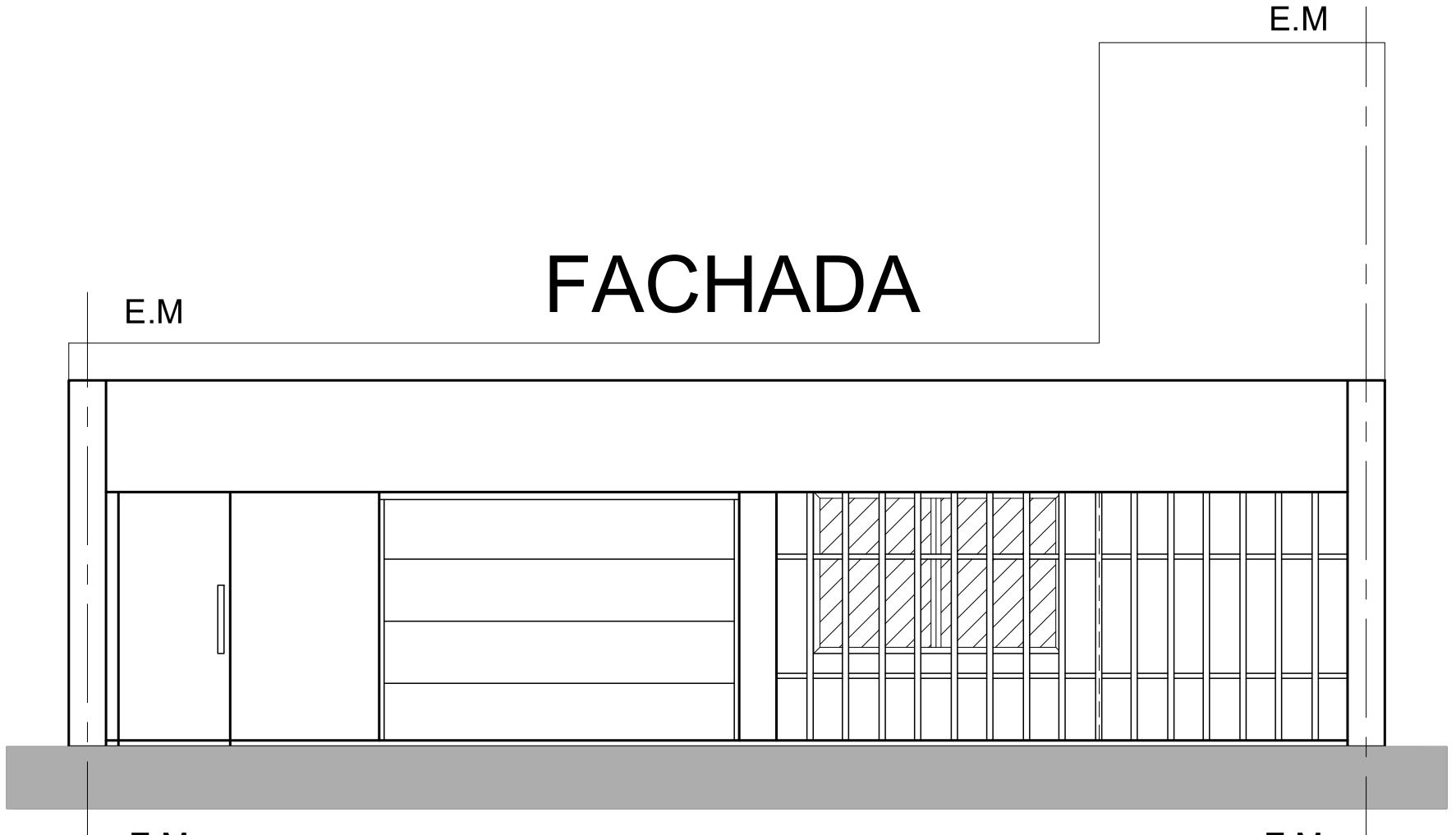
| | | | | | |
|---|---|---|---|---|---|
| INSTALACIONES III | CALCULO CLOACAL | CLOACAL | 6°3° | | TP4 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | PROFESOR: ALDO GIMENEZ | TM | 4/4 | |

# MATERIAL DE CAÑERIAS: PVC

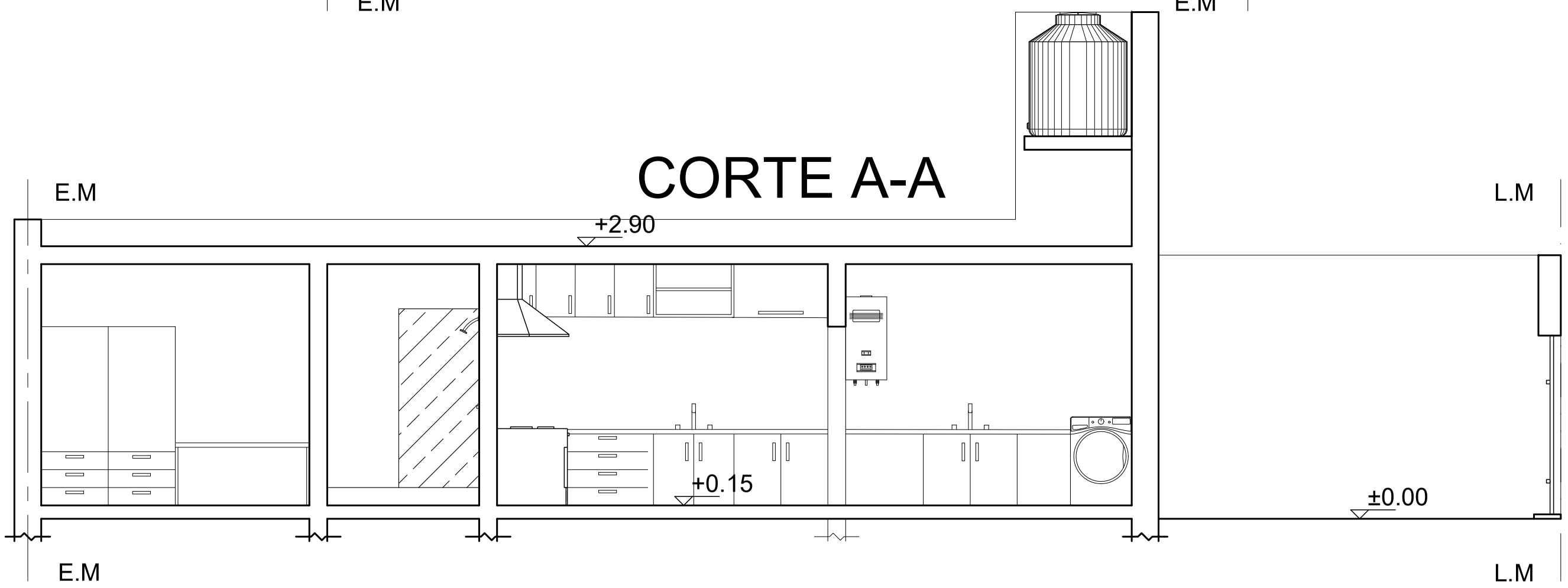



| | | | | | |
|---|---|---|---|---|---|
| INSTALACIONES III | PLANTA TECHO | PLUVIAL | 6°3° | | TP4 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | EETP N° 467 "EX TECNICA 5" | TM | 2/4 | |

# FACHADA




# CORTE A-A




FACHADA Y CORTE

INSTALACIONES III

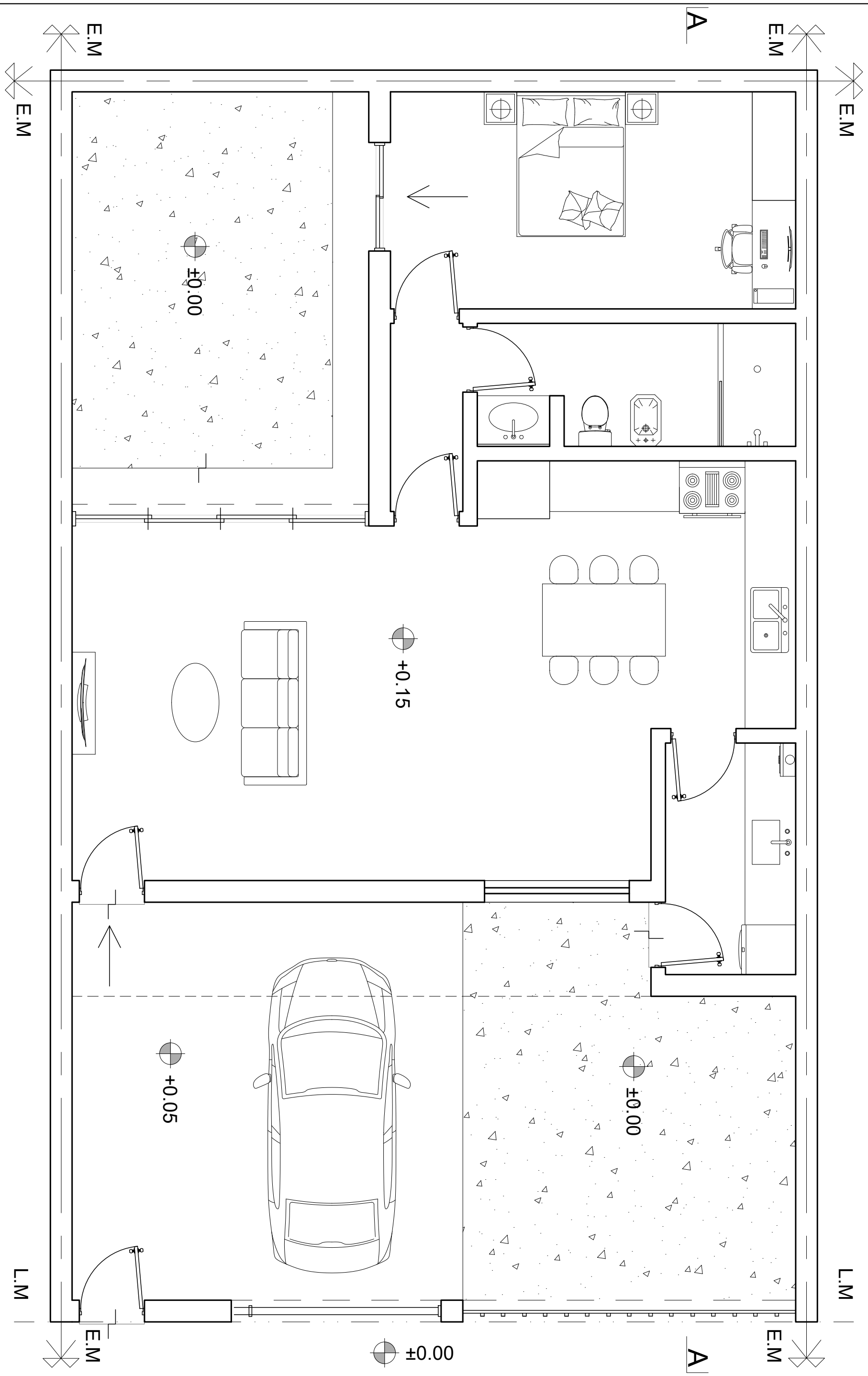
PROFESOR: ALDO GIMENEZ

ALUMNO: DÍAS FACUNDO

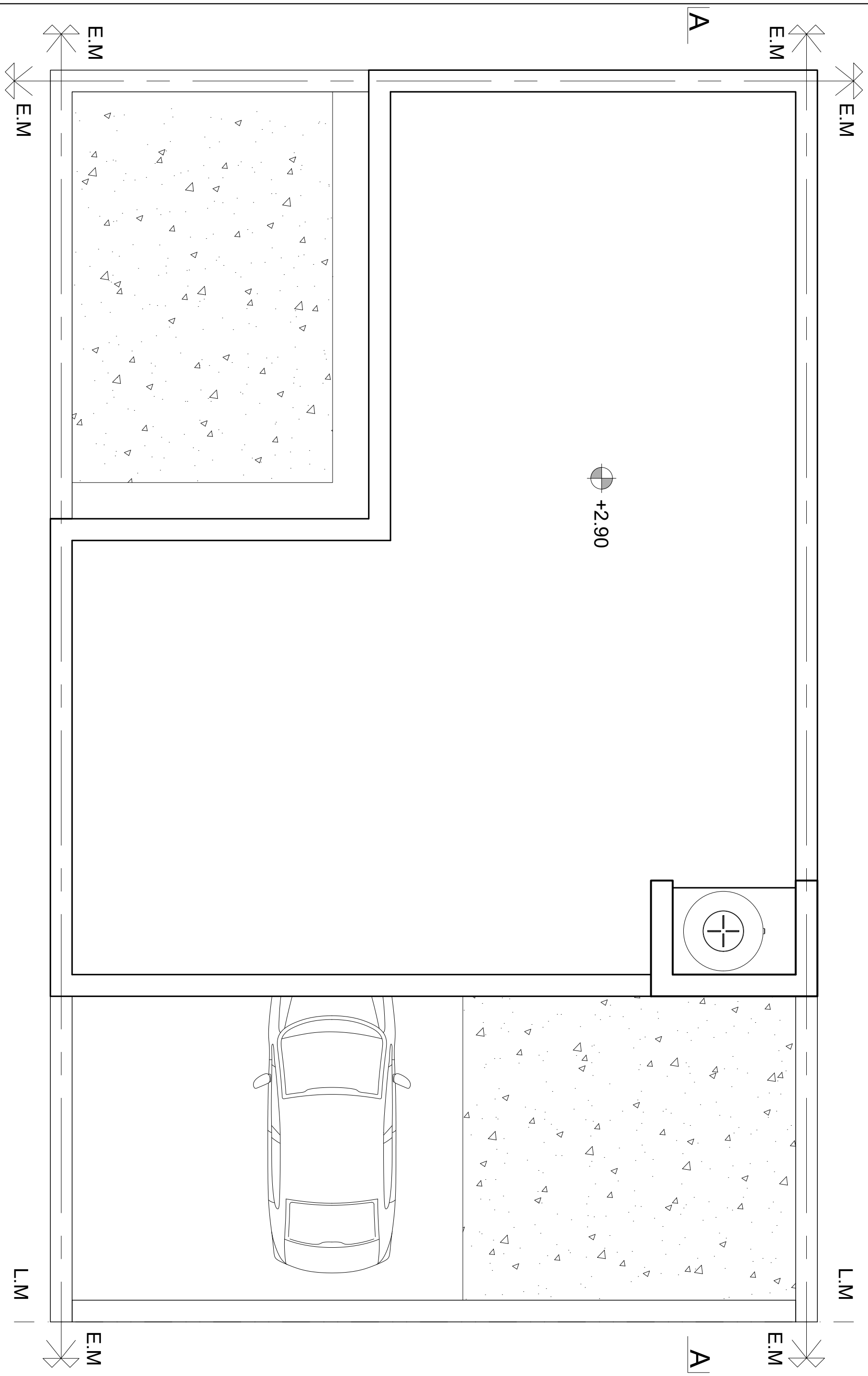
TM 3/3

6°3°

TP1




| | | | |
|---|---|---|---|
| INSTALACIONES III | PLANTA BAJA | 6°3° | TP1 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | TM 1/3 | |




| | | | |
|---|---|---|---|
| INSTALACIONES III | PLANTA DE TECHO | 6°3° | TP1 |
| ALUMNO: DÍAS FACUNDO | PROFESOR: ALDO GIMENEZ | TM 2/3 | |