Nombre del Alumno Ervin Altamirano Jimenez

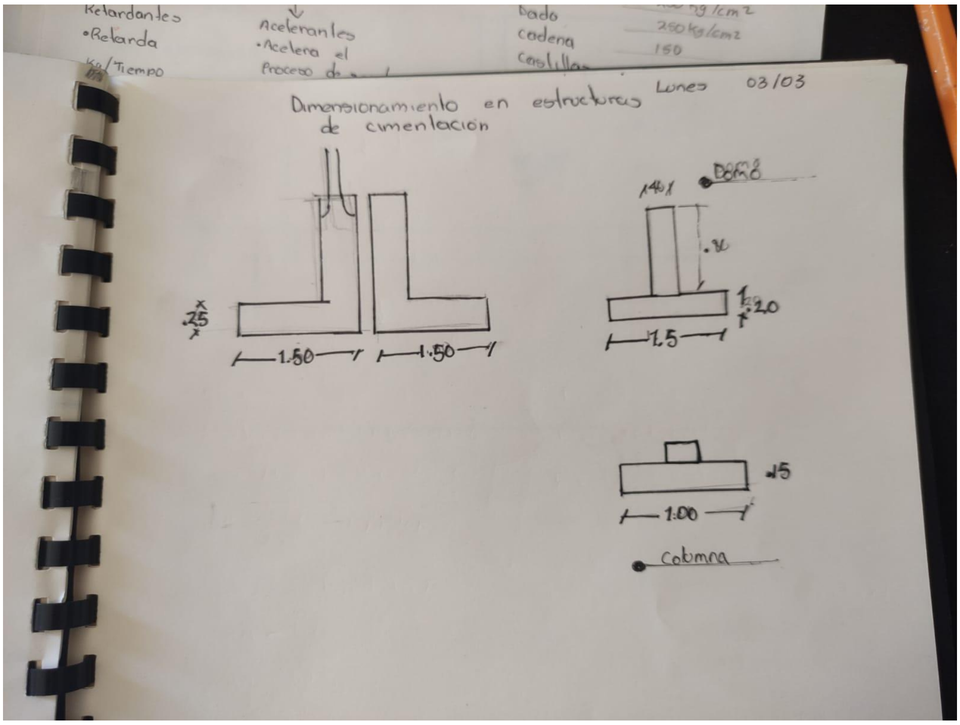
Nombre del tema: Apuntes

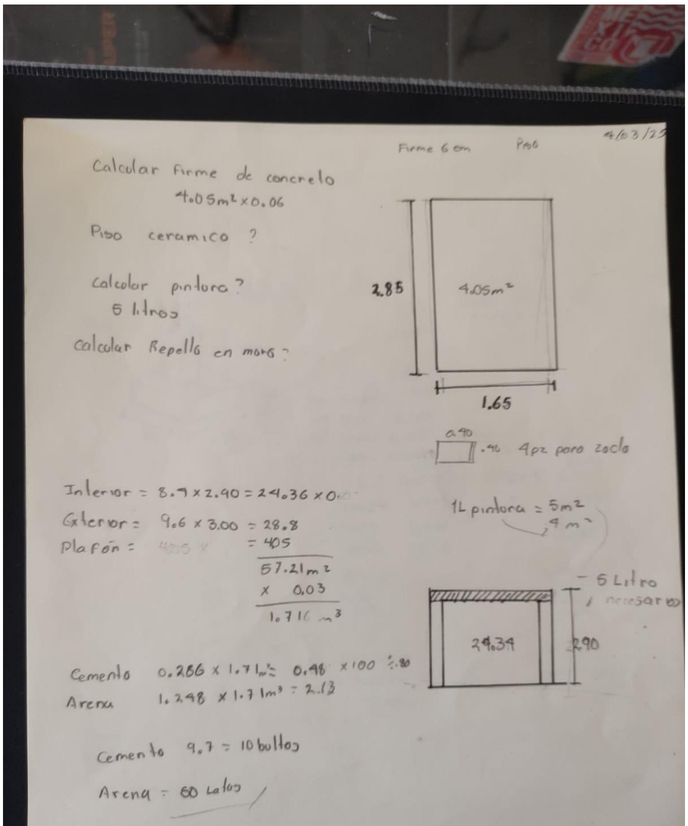
Parcial: 3ro

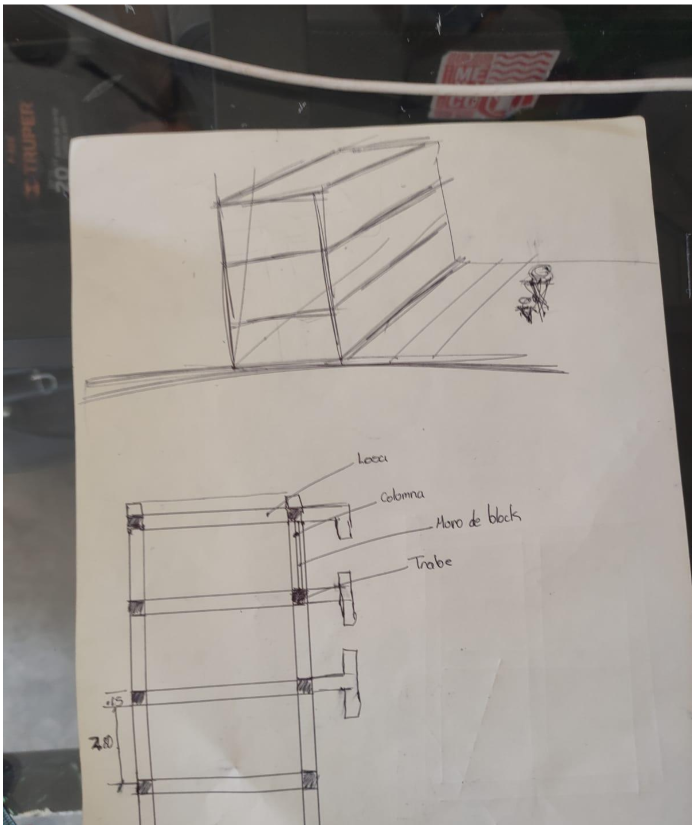
Nombre de la Materia: Costos y Presupuestos

Nombre del profesor: Arq.JUAN ANTONIO ALVAREZ AGUILAR

Nombre de la Licenciatura: Arquitectura


Retardantes
•Retarda
Kg/Tiempo
Acelerantes
•Acelera el
Proceso de
Dado
cadena
Castillos
250 kg/cm2
150
Lunes 03/03
Dimensionamiento en estructuras de cimentación
.25
1.50
1.50
Domo
.30
.20
1.5
.15
1.00
Columna

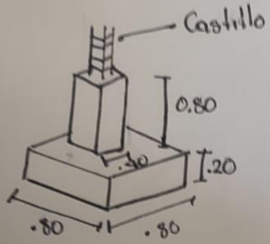

4/03/25
Firme 6 cm
Piso
Calcular firme de concreto
4.05m² x 0.06
Piso ceramico ?
Calcular pintura ?
5 litros
Calcular Repello en muro ?
2.85
4.05m²
1.65
0.40
.40
4pz para zoclo
Interior = 8.4 x 2.90 = 24.36
Exterior = 9.6 x 3.00 = 28.8
Plafón = = 405
57.21m²
x 0.03
1.716 m³
1L pintura = 5m²
4 m²
5 Litro necesarios
24.34
2.90
Cemento 0.286 x 1.71m³ = 0.48 x 100
Arena 1.248 x 1.71m³ = 2.13
Cemento 9.7 = 10 bultos
Arena = 60 latas


Losa
Columna
Muro de block
Trabe
.15
2.80

.96
x 12 pz

Z-1 250 kg/cm²
D-1 250 kg/cm²

Z-1



DaDo 70-1m de
Anclaje

Z-1 0.128 m³

Ton	Cemento	0.0496	= 2 bultos
m³	Arena	0.068	
m³	Grava	0.080	
	Agua	0.025	

	Volumen		Volumen
D-1	0.0405	Z-1	0.096
Cemento	0.015		0.037
Arena	0.021		0.051
Grava	0.025		0.060

x4

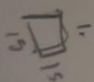
0.06	0.14
0.084	0.20
0.1	0.24

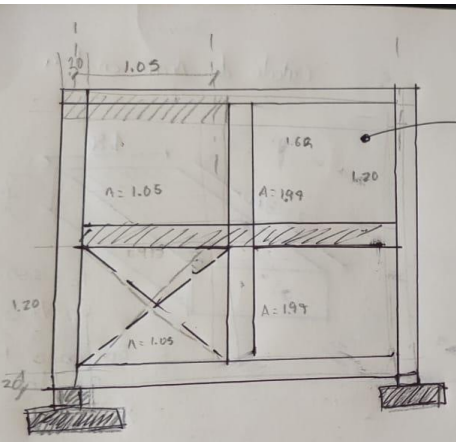
L = 1.30 x 4
= 5.20 x 4
= 20.8 m

L = .96 x 12 pz
11.52 = 12 m

Pz 14

112





zona efectiva para ladrillo - block

M2 - Muro = 5.98 X 232.56

= 234 pz

Concreto

A - B = 1.225 X 0.20 X 0.15 = 0.036

1.855 X 20 X 0.15 = 0.056

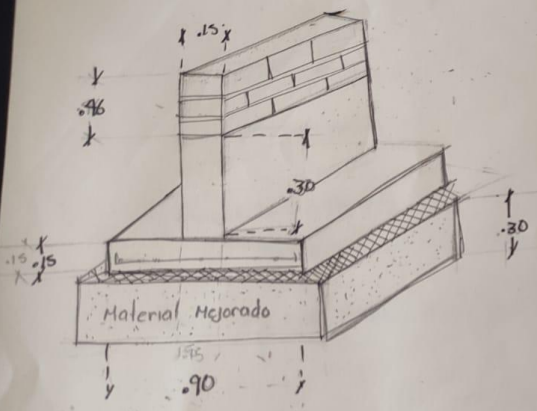
CC - C.INT =

1.20 X 025 X 0.15 = 0.027

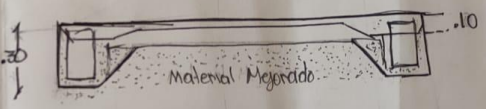
5.75 x 4 x 0.56

varilla x castillo

15+20+15+20 = 0.70 X 0.25 X 31 = 5.42 kg



CRITERIO DE DISEÑO
ZAPATA CORRIDA
BARDA

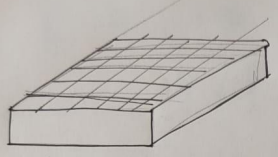


caliche

CRITERIO DE DISEÑO
LOSA DE CIMENTACIÓN

Martes

P-50
Dobles



3/8 Vrs: 1.80 + 0.12 x 16
= 30.72 ML x 0.56 = 10.75 kg

3.12 x 10 = 31.2 ML = 3pz = 1pz = 12mL

1.80 / 0.5 = 3.6 = 4 + 1 = 5

5 x 1.10 = 5.5 mL x 2 = 11mL

3.00 / 0.5 = 6 + 1 = 7

7 x 1.10 = 7.7 x 2 = 15.4m

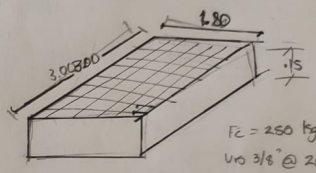
11 x 0.56 = 6.16

15.4 x 0.56 = 8.62

Alambrito = 29.725 kg

Jueves

Cálculo de Acero en losa



Fc = 250 kg/cm²
Vrs 3/8" @ 20 cm

Bastones 1.00 @ 60 cm
Perimetro
Ø 3/8"

3/8" 1.80 x 16 y 0.15
30.72 ML x 0.56 = 17.20 kg /

3.12 x 10 = 31.2 x 0.56 = 17.47 kg /

Alambrito = 17.31

Concreto = 3.00 x 1.80 x .16
= 0.87 m³

.684 x .81 = .3119 x 1000 ÷ 50 = 7 bulto x 250
.585 x 0.81 = .9333 x 1m³ = 199.95
.630 x 0.81 = .5103 x 1m³ = 170.09

Concreto premezclado
100, 150, 180, 200, 250, 300 → concreto especial

↓ — Aditivos — ↓

Retardantes
• Retarda
kg / Tiempo

Aceleranles
• Acelera el proceso de secado
Km / tiempo

Salinidad
Tierra
Naturales

Concreto $ 14.500 7 m³ Bolo
Bomba $ 2,500
Adicional $ Km

Proporción
200 5 Latas — Arena
5 cemento

150 6 Latas Arena
6 Grava

100 grava - 8 Arena

250 - 8" 4 grava - 4 arena

300 — 3 grave - 3 arena

	F'c
Cimentacion	250 kg/cm²
Dado	250 kg/cm²
cadena	150
Castillos	150 kg/cm² - 200
Losas	250 - 300 kg/cm²
Trabes	200 kg/cm²
columnas	200 - 250 kg/cm²
Pisos	150 kg/cm²
Plantillas	100 kg/cm²

6-8 cm