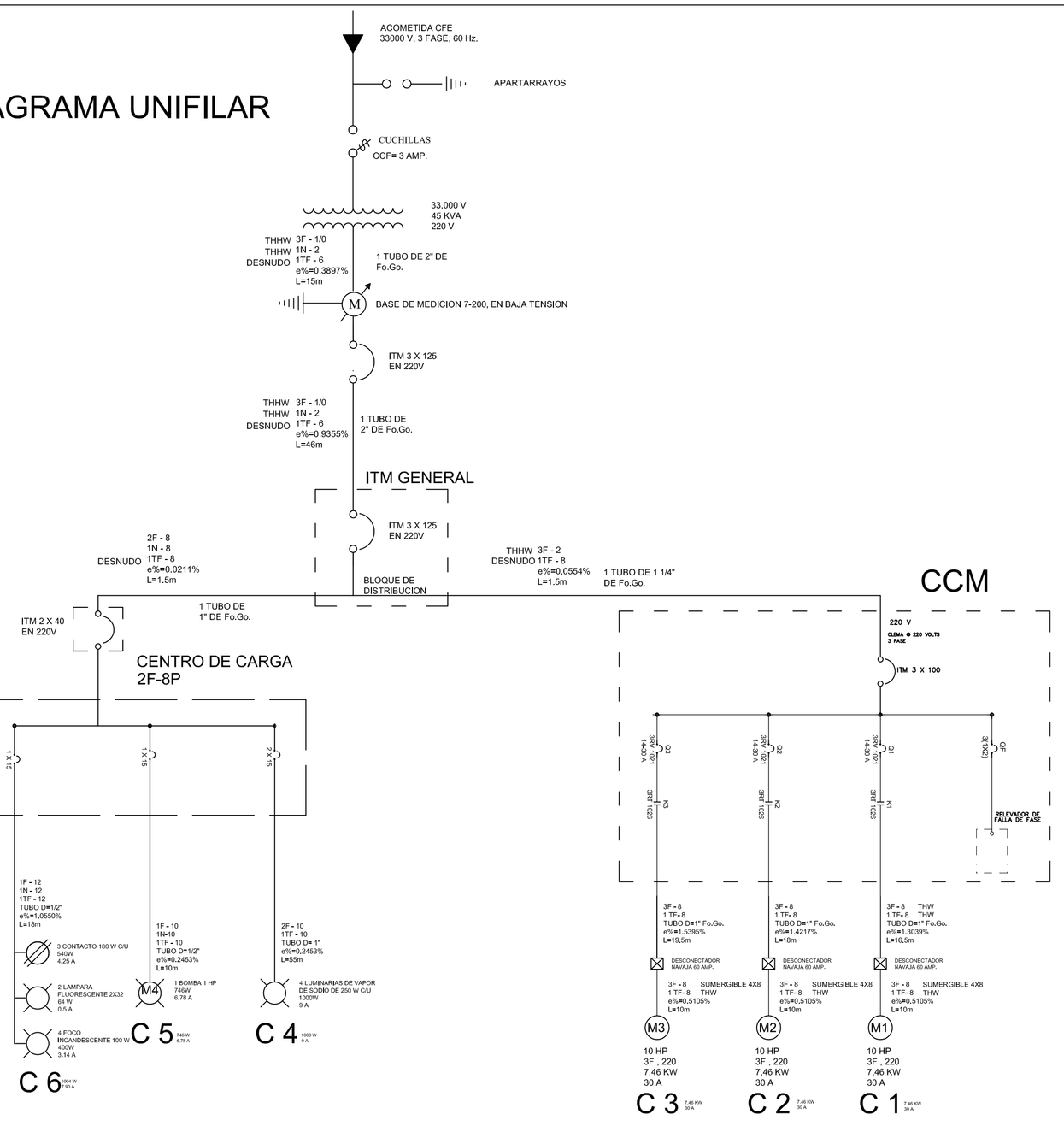
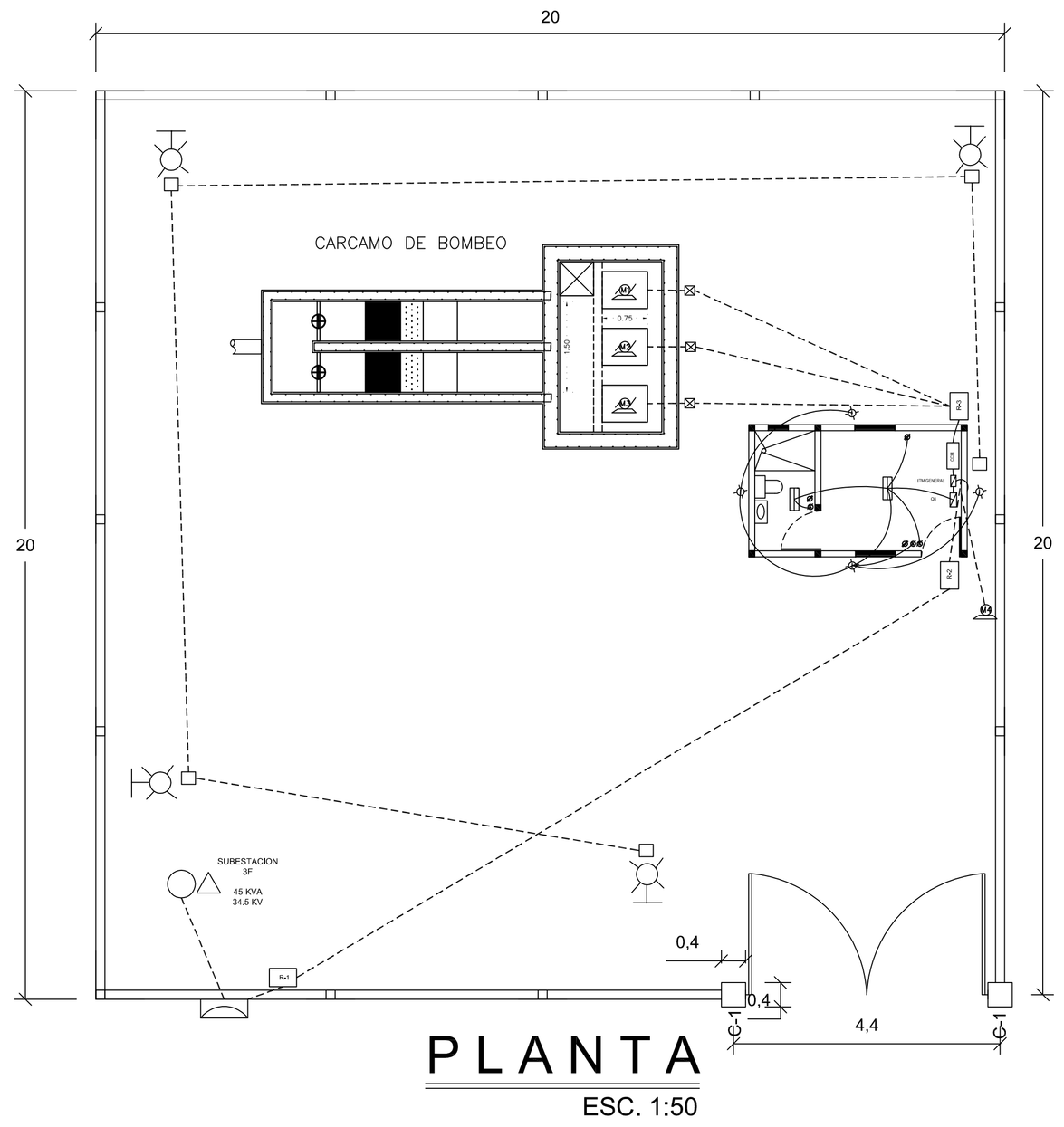
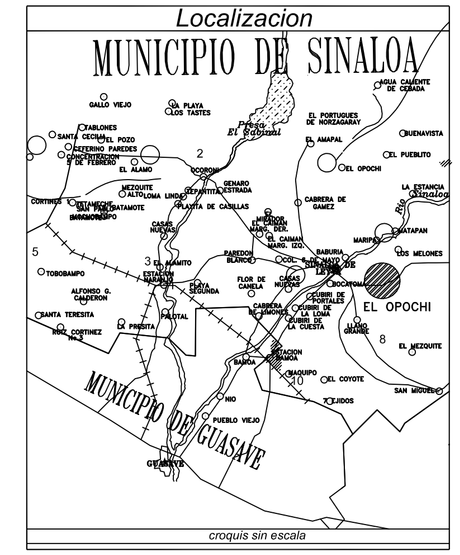
# DIAGRAMA UNIFILAR




PLANTA

ESC. 1:50




## DATOS DE PROYECTO

| | |
|---|---|
| Población actual | 1,158 hab. |
| Población proyecto | 1,651 hab. |
| Dotación | 187.5 lts/hab./dia |
| Aportación | 150 lts./hab./dia |
| Gasto medio | 1.62 l.p.s |
| Gasto minimo | 3.25 l.p.s. |
| coef. de harmon | 3.63 |
| Gasto maximo instantaneo | 11 .78 l.p.s. |
| Gasto maximo extraordinario | 17.68 l.p.s. |

**CUADRO DE DISTRIBUCION DE CARGAS**

**CENTRO DE CONTROL DE MOTORES**

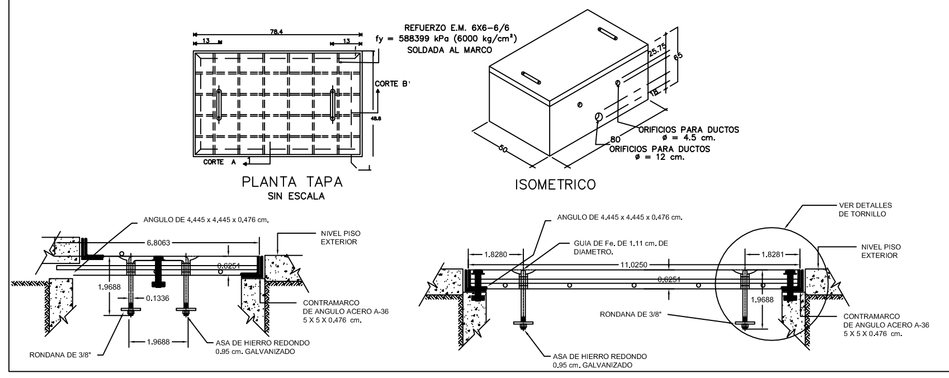
| | EQUIPO | MOTOR DE 10 HP, 220 V | MOTOR DE 1 HP, 127 V | LAMPARAS VAPOR DE SODIO | RECEP-TACULOS | FOCO INCANDESCENTE 100W | LAMPARA FLUORESCENTE 2X32 | WATTS POR FASE | CONSUMO TOTAL EN KW | CONSUMO TOTAL EN AMPERES | ITM | METODO DE ARRANQUE | FASES | A | B | C | DESCRIPCION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C1 | 1 | | | | | | 2,486.66 | 7.46 | 30 | 3RV 1021 1A-30A | ATP GUARDAMOTOR-CONTACTOR | A | 2,486.66 | | | MOTOR 10 HP, 3F, 220 V, 60 HZ |
| 2 | | | | | | | | 2,486.66 | | | | | B | | 2,486.66 | | |
| 3 | | | | | | | | 2,486.66 | | | | | C | | | 2,486.66 | |
| 4 | C2 | 1 | | | | | | 2,486.66 | 7.46 | 30 | 3RV 1021 1A-30A | ATP GUARDAMOTOR-CONTACTOR | A | 2,486.66 | | | MOTOR 10 HP, 3F, 220 V, 60 HZ |
| 5 | | | | | | | | 2,486.66 | | | | | B | | 2,486.66 | | |
| 6 | | | | | | | | 2,486.66 | | | | | C | | | 2,486.66 | |
| 7 | C3 | 1 | | | | | | 2,486.66 | 7.46 | 30 | 3RV 1021 1A-30A | ATP GUARDAMOTOR-CONTACTOR | A | 2,486.66 | | | MOTOR 10 HP, 3F, 220 V, 60 HZ |
| 8 | | | | | | | | 2,486.66 | | | | | B | | 2,486.66 | | |
| 9 | | | | | | | | 2,486.66 | | | | | C | | | 2,486.66 | |
| | | | | | | | | **22,380** | | | | | | **7460.00** | **7460.00** | **7460.00** | |

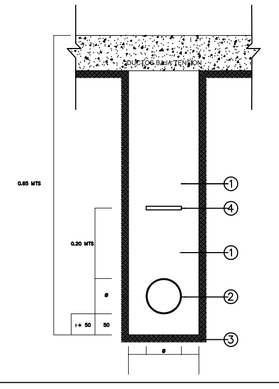
**CENTRO DE CARGA PRINCIPAL**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C4 | | | 4 | | | | 500 | 1 | 9.00 | 2P-15A | | A | 500 | | | ALUMBRADO EXT 220V, |
| 2 | | | | | | | | 500 | | | | | B | | 500 | | |
| 3 | C5 | | 1 | | | | | 746 | 0.746 | 6.78 | 1P-15A | | A | 746 | | | BOMBA PARA ALIMENTACION DE TINACO |
| 4 | C6 | | | | 3 | 4 | 2 | 1004 | 1.004 | 7.90 | 1P-15A | | B | | 1004 | | SERVICIO PARA AREA DE CONTROL |
| | | | | | | | | **2750.00** | | | | | | **1246** | **1504** | | |
| | | | | | | | | **25130.00** | | | | | TOTAL | **8706.00** | **8964.00** | **7460.00** | |

**DESBALANSEO DE CARGAS% = ((CARGA MAYOR - CARGA MENOR) / (CARGA MAYOR)) * 100**
**DESBALANSEO EN EL CENTRO DECONTROL DE MOTORES A Y C = 0%**
**DESBALANSEO EN EL CENTRO DE CARGA PRINCIPAL A Y B = ((1504-1246) / (1504)) * 100 = 17%**
**DESBALANSEO TOTAL ENTRE FASES B Y C= ((8964-7460) / (8964)) = 16%**

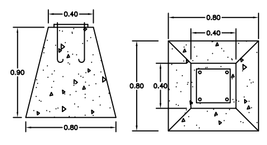
## REGISTRO DE CONCRETO DE BAJA TENSION



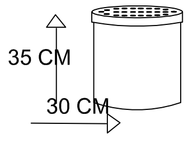




NOTAS:

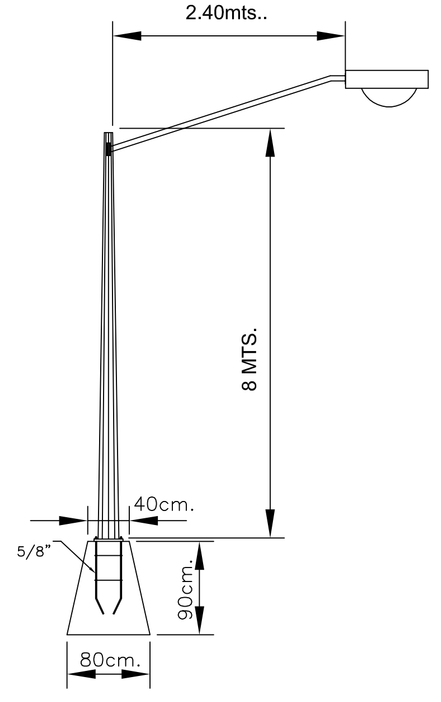
1.- RELLENO MATERIAL COMPACTADO (90% MINIMO)
2.- TUBO PVC CONDUIT TIPO PESADO DE 2 PLG. ø
3.- PISO COMPACTADO (90 % MINIMO)
4.- CINTA SEÑALIZADORA DE ADVERTENCIA 100 mm




DETALLE DE BASE
PIRAMIDAL EN POSTE DE 8 MTS.




DETALLE DE REGISTR
ALUMBRADO DE POLICONC




DETALLE DE LAMPARAS EN POSTE CONICO OCTAGONAL
DE 8.00 MTS DE ALTURA, BRAZO DE 2.40

## SIMBOLOGIA

- CONTACTO POLARIZADO DEL TIPO NORMAL 15 A, 127 V CA 1F
- LUMINARIA FLUORESCENTE 2X32W 127 V CA 1F
- TUBERIA POR PISO PVC
- TUBERIA POR MURO O LOZA OCULTA
- R — REGISTRO ELECTRICO EN PISO
- FOCO AHORRADOR DE ENERGIA 21W, 127 V CA 1F INTEMPERIE
- REGISTRO ELECTRICO DE ALUMNRADO
- SUBESTACION ELECTRICA DE MEDIA TENSION TRIFASICA
- INTERRUPTOR TERMOMAGNETICO 3 X 125 AMP
- M — MOTOR 1 HP .746 KW 127 V CA 1F
- MEDICION C.F.E. 7-200
- M — MOTOR 10 HP- 7.46 KW, 220 V CA 3 FASES SUMERGIBLE EN AGUA.
- LUMINARIA VAPOR DE SODIO 150W, 220 V CA 2 F EN POSTE METALUICO
- APAGADOR SENCILLO
- RETENIDA DE ANCLA RDA

JUNTA MUNICIPAL DE AGUA POTABLE
Y ALCANTARILLADO DE SINALOA

| GERENTE GENERAL: | PRESIDENTE MUNICIPAL: |
|---|---|
| C. GUADALUPE CASTRO QUIÑONEZ | LIC. MARIA BEATRIZ LEON RUBIO |

NOMBRE DEL PROYECTO:
CONSTRUCCION DE SISTEMA DE ALCANTARILLADO SANITARIO Y SANEAMIENTO

| UBICACION: | MUNICIPIO: |
|---|---|
| EL OPOCHI | SINALOA |

NOMBRE DEL PLANO:

INSTALACIONES ELECTRICAS DE BAJA TENSION Y DIAGRAMA UNIFILAR EN CARCAMO DE BOMBEO

| Vo.Bo.: | REVISO: |
|---|---|
| ING. RICARDO SANCHEZ LEON | ARQ. JAVIER ENRIQUE ESPINOZA |

| FECHA: | No. DE PLANO: | ESCALA: |
|---|---|---|
| ENERO 2021 | 04 | INDICADA |