



# **Annex 8**

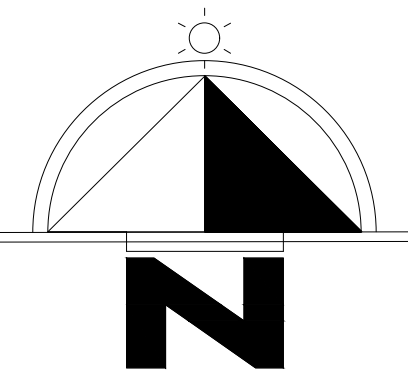
# **Technical Design**

**Macao Solar Installation**

As detailed engineering is part of the EPC scope, the development design provided in this Annex is preliminary and for reference only. It is open for changes by the EPC Contractor, as long as these changes either imply improving or maintaining the same design quality. In any cases, Performance Warranty presented in Annex 18 shall be maintained.



LAYOUT GENERAL



DATOS DEL PROYECTO: MACAO, CHILE

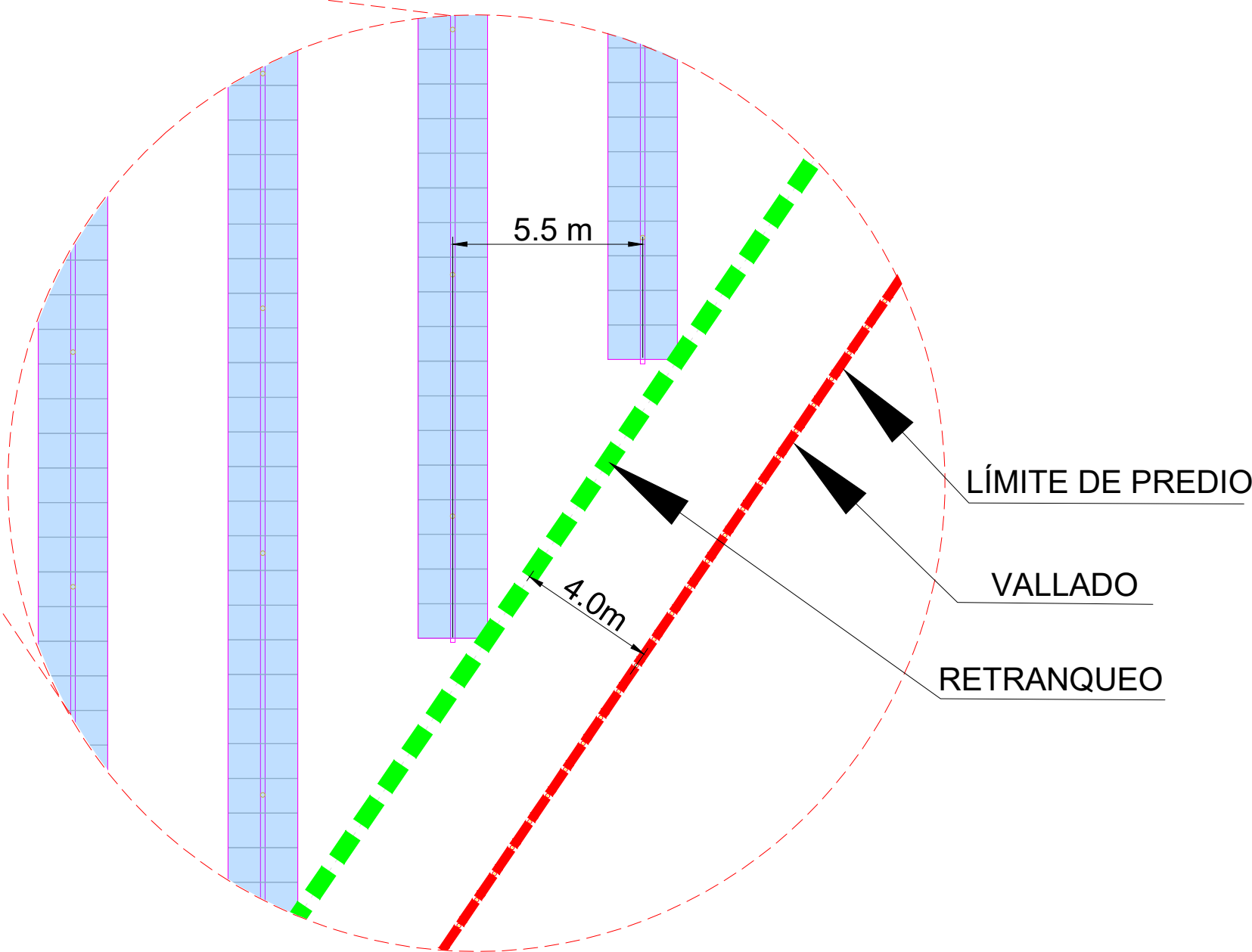
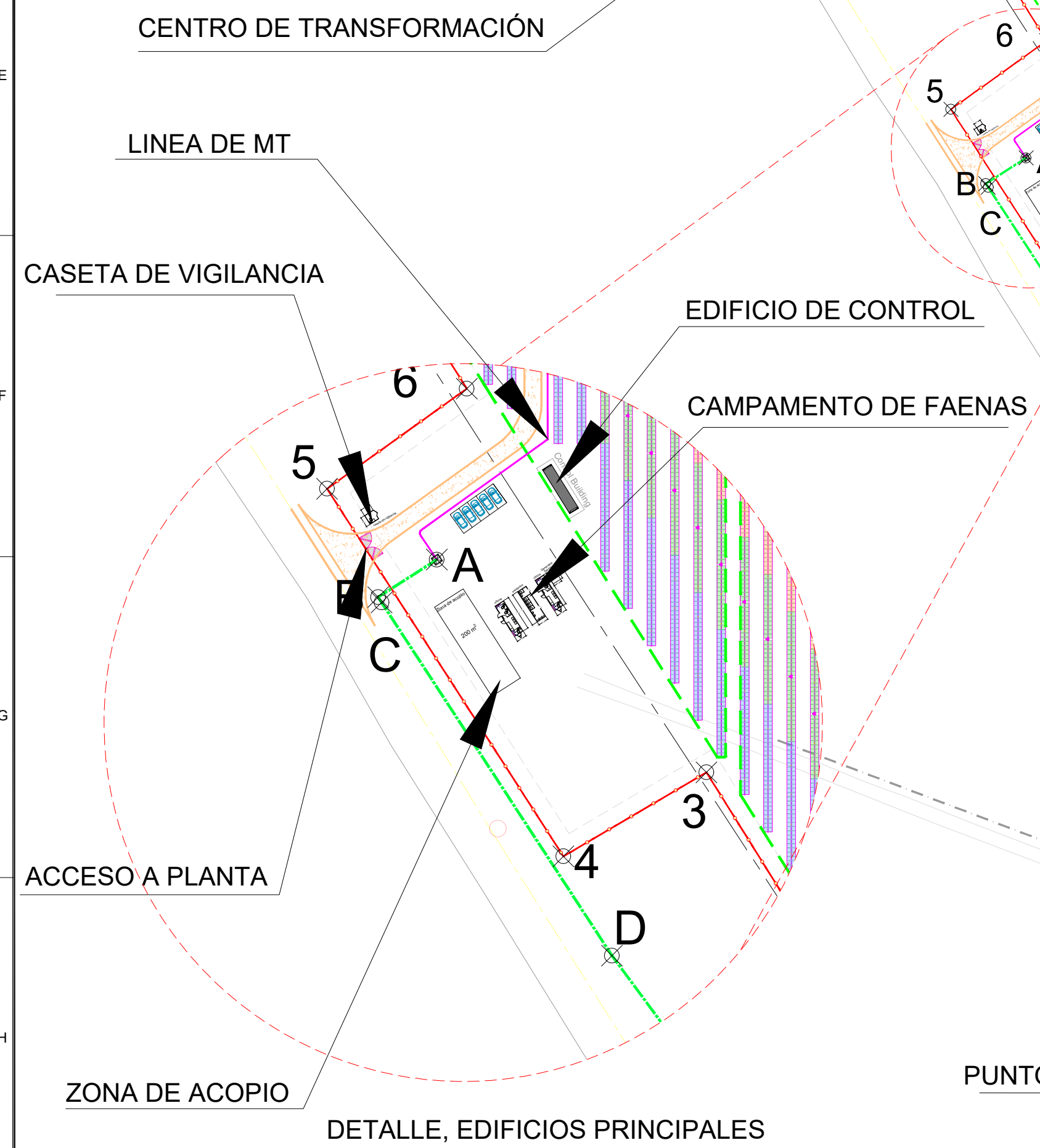
|                          |                                      |
|--------------------------|--------------------------------------|
| Potencia total :         | 10.0856 MWp                          |
| Potencia total AC :      | 9.99 MVA @30°C                       |
| ILR :                    | 1.00956                              |
| Número total de módulos: | 24,750 unidades                      |
| Tipos de módulos:        | TSM-DEG15MC20(II) BIFACIAL           |
|                          | 50% (12,390 módulos de 405 Wp)       |
|                          | 50% (12,360 módulos de 410 Wp)       |
|                          | Huawei 185 KTL (185kVA@30°C)         |
| Inversor:                | 54                                   |
| Número de Inversor       | 825 strings                          |
| Strings:                 | 413 strings (Módulo 405 Wp)          |
|                          | 412 strings (Módulo 410 Wp)          |
|                          | 30 módulos por string                |
| Estructura:              | ARCTECH SKYLINE 1Vx90 (247 Unidades) |
| Pitch:                   | ARCTECH SKYLINE 1Vx60 (42 Unidades)  |
|                          | 5.5 m                                |
| Caminos viales internos: | 840 m                                |
| Perímetro de vallado:    | 2,080 m                              |
| Área total vallado:      | 17.85 ha                             |

LEYENDA

|  |                            |
|--|----------------------------|
|  | SEGUIDOR 1Vx90             |
|  | SEGUIDOR 1Vx60             |
|  | CAMINO INTERNO 4 m         |
|  | VALLADO                    |
|  | RETRANQUEO                 |
|  | LÍMITE DE PREDIO           |
|  | LÍNEA DE MEDIA TENSIÓN     |
|  | LÍNEA DE TRANSMISIÓN AÉREA |
|  | PUERTA DE ACCESO           |
|  | CENTRO DE TRANSFORMACIÓN   |

| COORDENADAS LÍMITE DE PREDIO |              |                |
|------------------------------|--------------|----------------|
| PUNTO                        | X            | Y              |
| 1                            | 325,461.9647 | 6,270,146.0970 |
| 2                            | 325,090.9886 | 6,269,601.5105 |
| 3                            | 325,041.2100 | 6,269,681.2900 |
| 4                            | 325,007.4368 | 6,269,661.4584 |
| 5                            | 324,951.6658 | 6,269,748.2364 |
| 6                            | 324,984.6400 | 6,269,771.8700 |
| 7                            | 324,834.8822 | 6,270,011.7645 |
| 8                            | 324,882.0000 | 6,270,106.0000 |
| 9                            | 325,107.0000 | 6,270,016.0000 |
| 10                           | 325,165.6135 | 6,270,132.8847 |
| 11                           | 325,217.2000 | 6,270,241.3000 |

| COORDENADAS PUNTO DE INTERCONEXIÓN |              |                |
|------------------------------------|--------------|----------------|
| PUNTO                              | X            | Y              |
| A                                  | 324,977.5668 | 6,269,731.5171 |
| B                                  | 324,963.7159 | 6,269,722.6541 |
| C                                  | 324,964.5360 | 6,269,721.3959 |
| D                                  | 325,018.9060 | 6,269,638.0167 |
| E                                  | 325,087.0124 | 6,269,545.8371 |
| F                                  | 325,145.9998 | 6,269,465.9998 |
| G                                  | 325,128.0000 | 6,269,435.0000 |
| H                                  | 325,149.0000 | 6,269,428.0000 |



|   |            |           |            |           |                |   |
|---|------------|-----------|------------|-----------|----------------|---|
| Referencia 6  |            |           |            |           |                |   |
| Referencia 5  |            |           |            |           |                |   |
| Referencia 4  |            |           |            |           |                |   |
| Referencia 3  |            |           |            |           |                |   |
| Referencia 2  |            |           |            |           |                |   |
| Referencia 1  |            |           |            |           |                |   |
|   |            |           |            |           |                |   |
| 02  | 18/08/2020 | ACB       | AFR        | RAV       | JSA            | Tercera Edición   |
| 01  | 13/08/2020 | ACB       | AFR        | RAV       | JSA            | Segunda Edición   |
| 00  | 04/08/2020 | ACB       | DSC        | RAV       | JSA            | Primer Edición  |
| Rev.  | Fecha      | Diseñado  | Dibujado   | Chequeado | Aprobado       | Descripción   |
| Firma y cédula profesional ING:   |            |           |            |           |                |   |
| Cliente:  |            |           |            |           |                | Ingeniería:   |
|  |            |           |            |           |                |  |
| Proyecto:   |            |           |            |           |                |   |
| PLANTA FOTOVOLTAICA SOLAR<br>MACAO (CHILE)  |            |           |            |           |                |   |
| Título Plano:   |            |           |            |           |                |   |
| LAYOUT GENERAL  |            |           |            |           |                |   |
| Escala:   | Diseñado:  | Dibujado: | Chequeado: | Aprobado: | RevTrinasolar: |   |
| 1:1,600   | ACB        | AFR       | RAV        | JSA       | LDF            |   |
| Original:   | Fecha:     | Fecha:    | Fecha:     | Fecha:    | Fecha:         |   |
| A1  | AGO-2020   | AGO-2020  | AGO-2020   | AGO-2020  | AGO2020        |   |
| Código:   | Número:    |           |            |           | Hoja:          |   |
| 106-MAC-PVP-ENG-GEN-DRW-TYP-001_02_UR-General lay-out                                 |            |           |            |           | 001            | 01 de 01  |