

| LISTA DE PLANSE | | | | |
|-----------------|--------|------|--|----------|
| PLA. NR. | FORMAT | REV. | TITLUL | DATA |
| 00 | A4 | 1 | LISTA DE PLANSE | 20.07.12 |
| 01 | A3 | 1 | PLANUL LOCATIEI | 18.07.12 |
| 02 | A3 | 1 | PLANUL LOCULUI | 18.07.12 |
| 03 | A1 | 1 | PLAN TOPOGRAFIC | 18.07.12 |
| 05 | A3 | 1 | DETALII IMPREJMUIRE | 18.07.12 |
| 07 | A1 | 2 | SCHITA | 21.09.12 |
| 11 | A3 | 2 | DETALII CONECTARE DC | 11.09.12 |
| 12 | A3 | 3 | DIAG. A CASETEI DE LEGATURA DE NIVEL 1 | 21.09.12 |
| 13A | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS1 | 24.09.12 |
| 13B | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS2 | 24.09.12 |
| 13C | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS3 | 24.09.12 |
| 13D | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS4 | 24.09.12 |
| 13E | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS5 | 24.09.12 |
| 13F | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS6 | 24.09.12 |
| 13G | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS7 | 24.09.12 |
| 13H | A1 | 1 | JB1 - LOCATIA CABLURILOR SI SECTIUNE - TS8 | 24.09.12 |
| 14 | A3 | 4 | DIAG. A CASETEI DE LEGATURA DE NIVEL 2 | 24.09.12 |
| 15A | A2 | 2 | AUXILIARE - SCHEMA GENERALA | 10.09.12 |
| 15B | A4 | 1 | AUXILIARE - MASURI SI PROTECTII PRINCIPALE | 19.07.12 |
| 15C | A3 | 2 | AUXILIARE - TABELA PRINCIPALA DE DISTRIBUTIE | 10.09.12 |
| 15D | A3 | 1 | AUXILIARE - TABELA DE DISTRIBUTIE CS | 19.07.12 |
| 15E | A3 | 1 | AUXILIARE - TABELA DE DISTRIBUTIE MC | 19.07.12 |
| 15F | A2 | 2 | AUXILIARE - TABELA DE DISTRIBUTIE TS | 10.09.12 |
| 16 | A1 | 2 | SISTEM LV PE SOL | 24.09.12 |
| 17 | A3 | 2 | STATIE METEO | 24.09.12 |
| 18A | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS1 | 24.09.12 |
| 18B | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS2 | 24.09.12 |
| 18C | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS3 | 24.09.12 |
| 18D | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS4 | 24.09.12 |
| 18E | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS5 | 24.09.12 |
| 18F | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS6 | 24.09.12 |
| 18G | A1 | 2 | DIAGRAMA LV O SINGURA LINIE TS7 | 24.09.12 |
| 18H | A1 | 1 | DIAGRAMA LV O SINGURA LINIE TS8 | 24.09.12 |
| 19 | A1 | 2 | DIAGRAMA MV O SINGURA LINIE | 24.09.12 |
| 20A | A1 | 2 | STATIE DE TRANSFORMARE 1.250 KVA | 10.09.12 |
| 20B | A1 | 1 | STATIE DE TRANSFORMARE 630 KVA | 10.09.12 |
| 21 | A2 | 1 | STATIE DE COLECTARE | 19.07.12 |
| 25 | A2 | 1 | SISTEM DE SOL MV | 19.07.12 |
| 31 | A3 | 1 | SECTIUNE DE DRUM | 19.07.12 |
| 32A | A2 | 2 | DISPUNEREA SANTURILOR TS1 | 24.09.12 |
| 32B | A2 | 2 | DISPUNEREA SANTURILOR TS2 | 24.09.12 |
| 32C | A2 | 2 | DISPUNEREA SANTURILOR TS3 | 24.09.12 |
| 32D | A2 | 2 | DISPUNEREA SANTURILOR TS4 | 24.09.12 |
| 32E | A2 | 2 | DISPUNEREA SANTURILOR TS5 | 24.09.12 |
| 32F | A2 | 2 | DISPUNEREA SANTURILOR TS6 | 24.09.12 |
| 32G | A2 | 2 | DISPUNEREA SANTURILOR TS7 | 24.09.12 |
| 32H | A1 | 1 | DISPUNEREA SANTURILOR TS8 | 24.09.12 |
| 32I | A2 | 2 | DISPUNEREA SANTURILOR AUXILIARE | 24.09.12 |
| 32J | A2 | 2 | SECTIUNE SANT | 24.09.12 |
| 34 | A3 | 2 | MODUL DE MONTARE A STRUCTURII | 24.09.12 |
| 40 | A0 | 2 | DISPUNEREA SCURGERII | 24.09.12 |
| 41A | A2 | 1 | DETALII A SANTURILOR DE SCURGERE | 19.07.12 |
| 41B | A1 | 1 | DETALII TUBULATURA DE SCURGERE 1 | 19.07.12 |
| 41C | A1 | 1 | DETALII TUBULATURA DE SCURGERE 2 | 19.07.12 |

Management de proiect:



Proiectant:
S.C. Energovoltaic Group S.R.L.
 Localitatea Arad, Str. Metianu, Nr. 2, Et. 1, Ap. 3, Corp A,
 Nr. Reg. Com. 302/897/2009 CUI: RO25959382, Tel 035414230
 www.energovoltaic.ro

| | | | |
|---------------|--------------------|------------|-----------|
| SPECIFICATIE: | NUME | Semnatura: | Data: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 |
| Proiectat: | Ing. Dragos Baghiu | | Scara: |
| Desenat: | Ing. Traian Ihut | | - |

REFERAT DE VERIFICARE NR./DATA

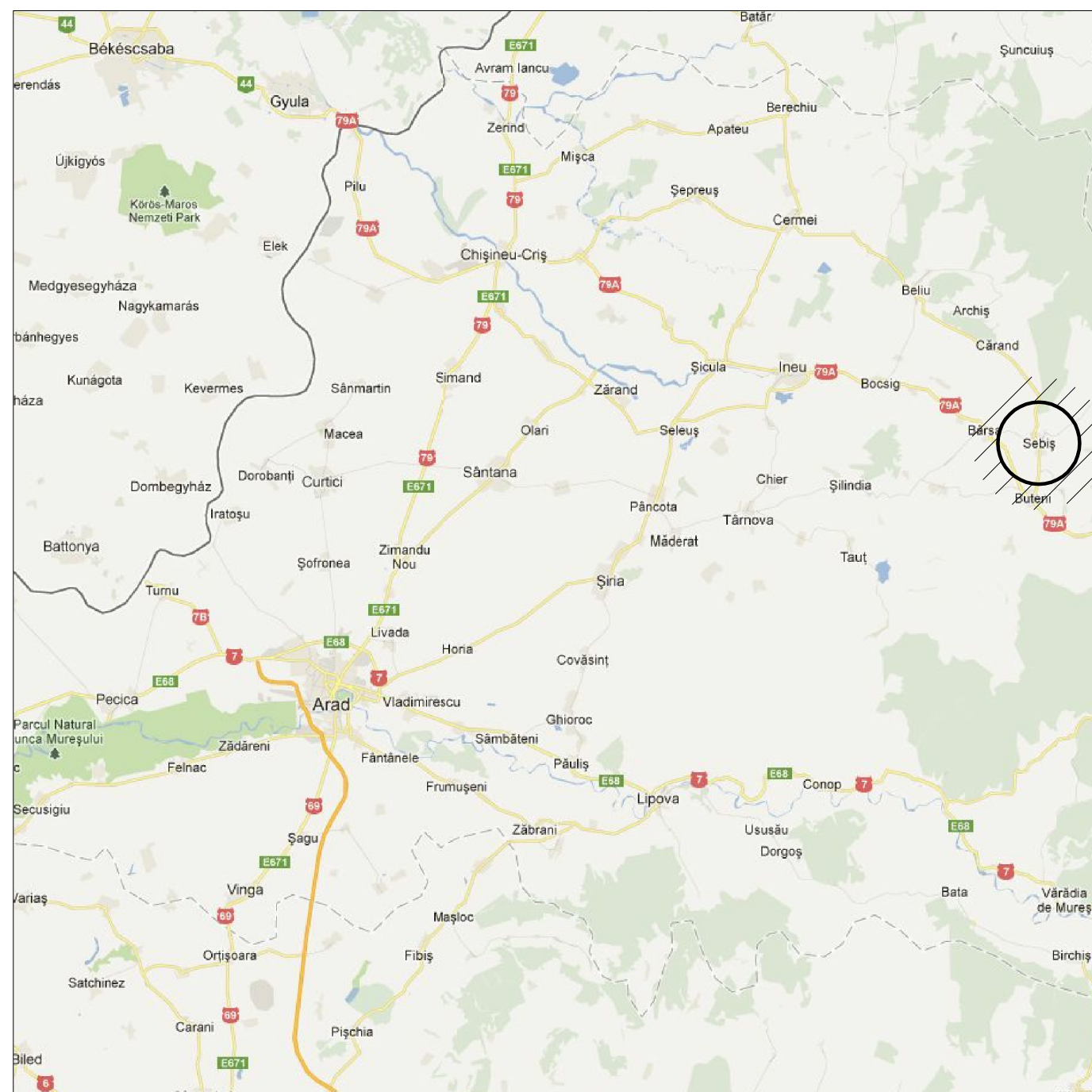
Beneficiar:
GAMA & DELTA ENERGY S.R.L.
 Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a,
 J02/1075/2011 CUI: RO29092657

Denumire proiect:
 FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2

Titlul plansei:
 LISTA DE PLANSE

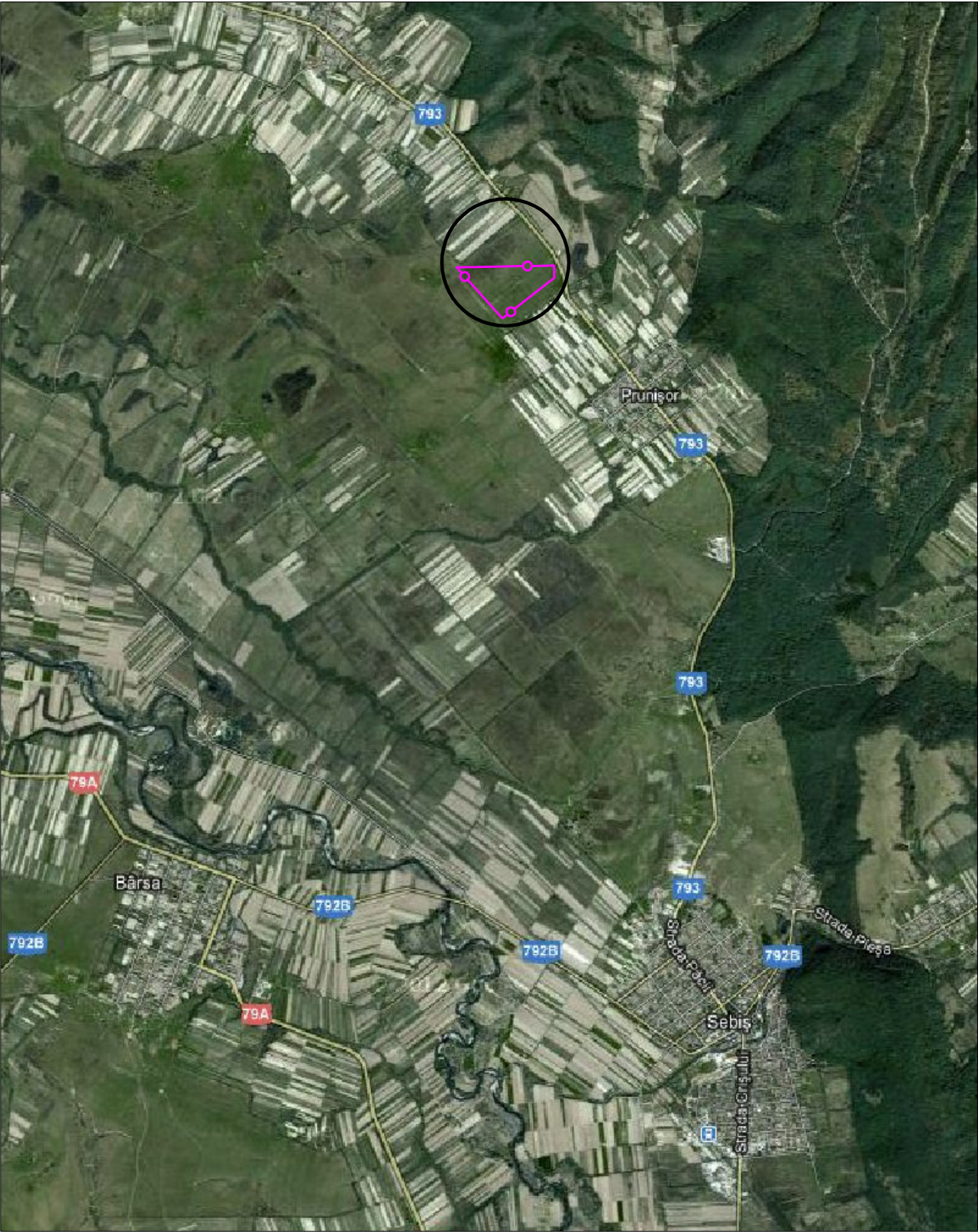
Proiect nr.
 11/2010

FAZA:
 DTAC
 Plansa Nr.
 00

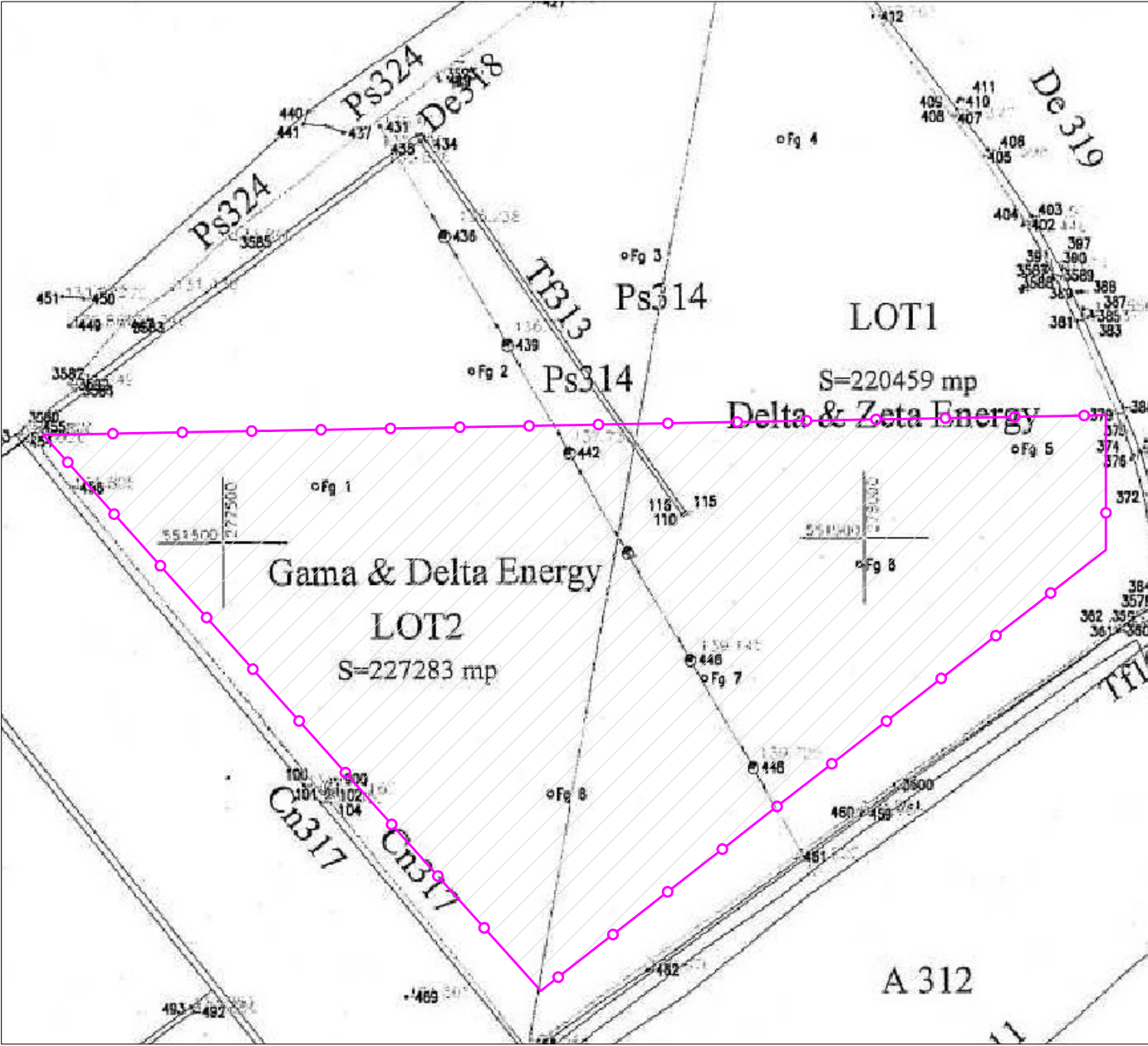


LAT: 46° 25' 37"
 LON: 22° 6' 25"
 Road DJ793 km 48,913
 Satul: PRUNISOR
 Municipiul: SEBIS
 Judetul: ARAD

| | | | | | |
|--|--|--|--|---|-------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltai Group S.R.L. Localitatea Arad, Str. Meșin, Nr. 2, Et. 1, Ap. 3, Corp A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: | Proiect nr. |
| | | | | GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | 11/2010 |
| SPECIFICATIE: | | | | Denumire proiect: | FAZA: |
| Sef proiect: | | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | | | | Titlul planșei: | Plansa Nr. |
| Desenat: | | | | PLANUL LOCATIEI | 01 |






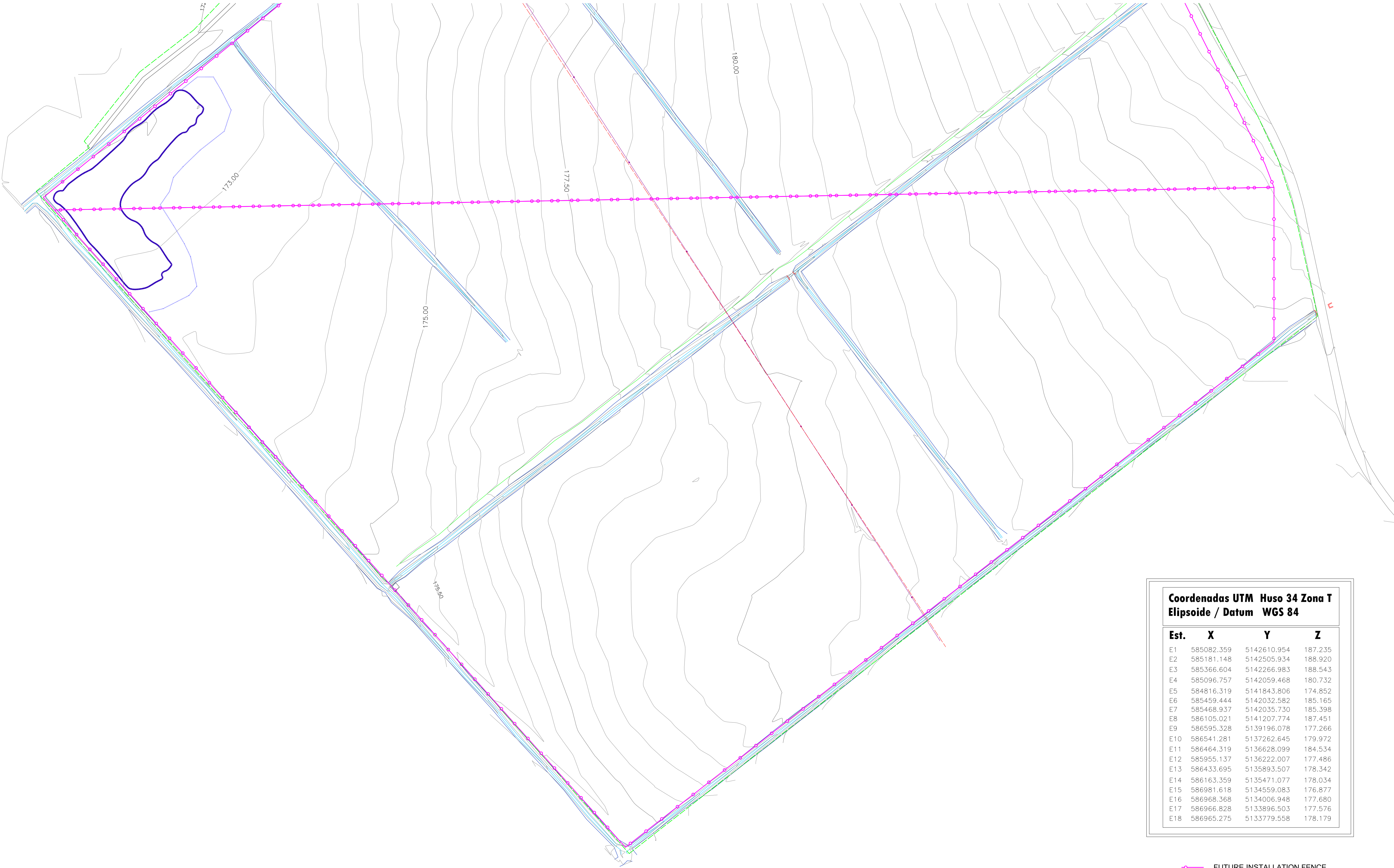
Scale
1:50.000



Scale
1:5.000

LAT: 46° 25' 37"
LON: 22° 6' 25"
Road DJ793 km 48,913
Satul: PRUNISOR
Municipiul: SEBIS
Judetul: ARAD


| | | | | |
|--|--|--|---|-------------|
| Management de proiect: | | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div></div><div></div></div> | | | | |
| Proiectant: | | | Beneficiar: | Proiect nr. |
| <div><div></div><div><div>S.C. Energovoltaj Group S.R.L.</div><div>Localitatea Arad, Str. Metan, Nr. 2, Et. 1, Ap. 3, Corp. A.</div><div>Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230</div><div>www.energovoltaic.ro</div></div></div> | | | <div><div>GAMA & DELTA ENERGY S.R.L.</div><div>Județul Arad Localitatea Arad Str. Cpt. Grigore Ighat, nr.50 AP. 2a.</div><div>J02/1075/2011 CUI: RO29092657</div></div> | 11/2010 |
| SPECIFICATIE: | | | Denumire proiect: | FAZA: |
| Sef proiect: | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | | | Titlul plansei: | Plansa Nr. |
| Desenat: | | | PLANUL LOCULUI | 02 |

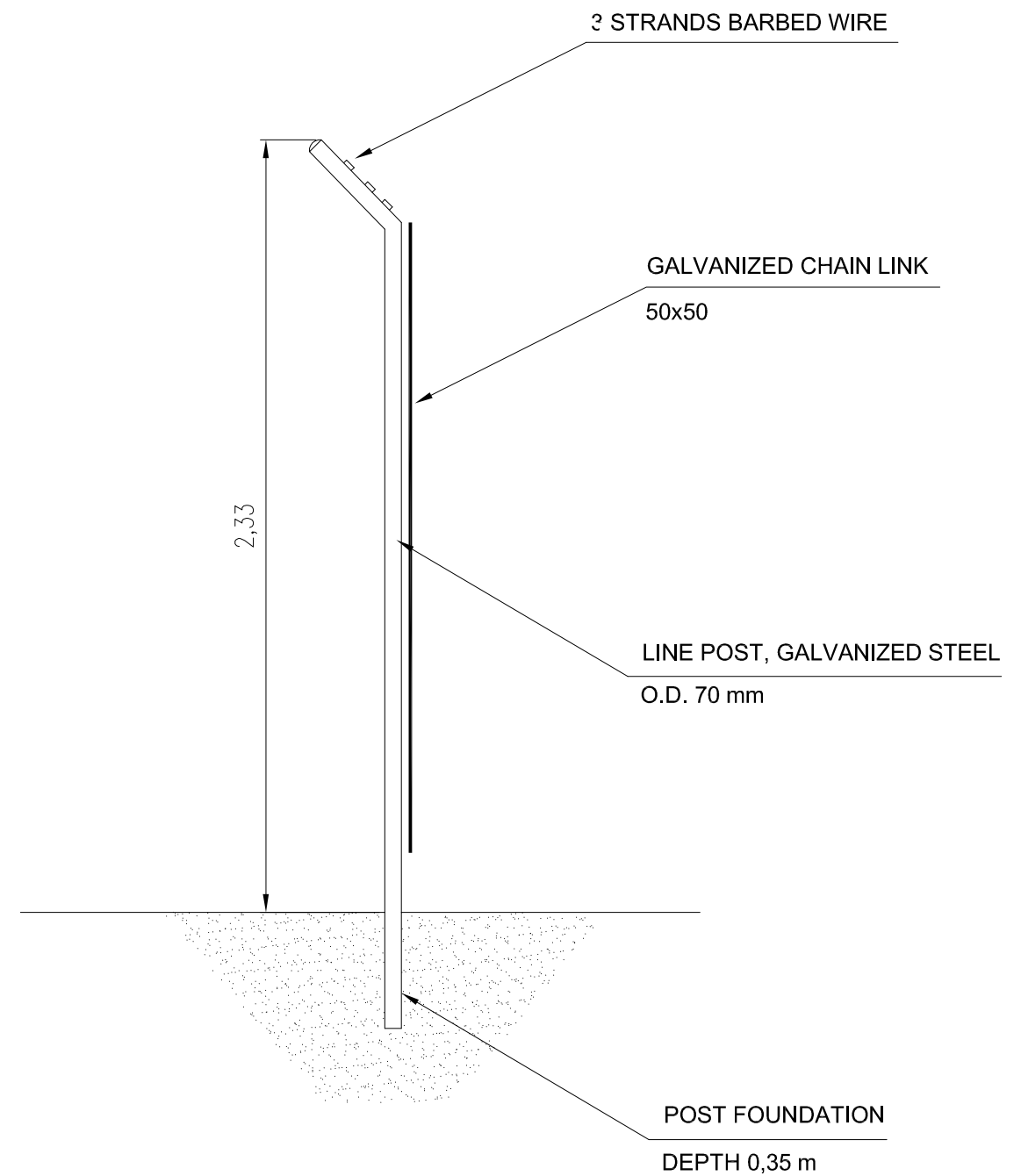
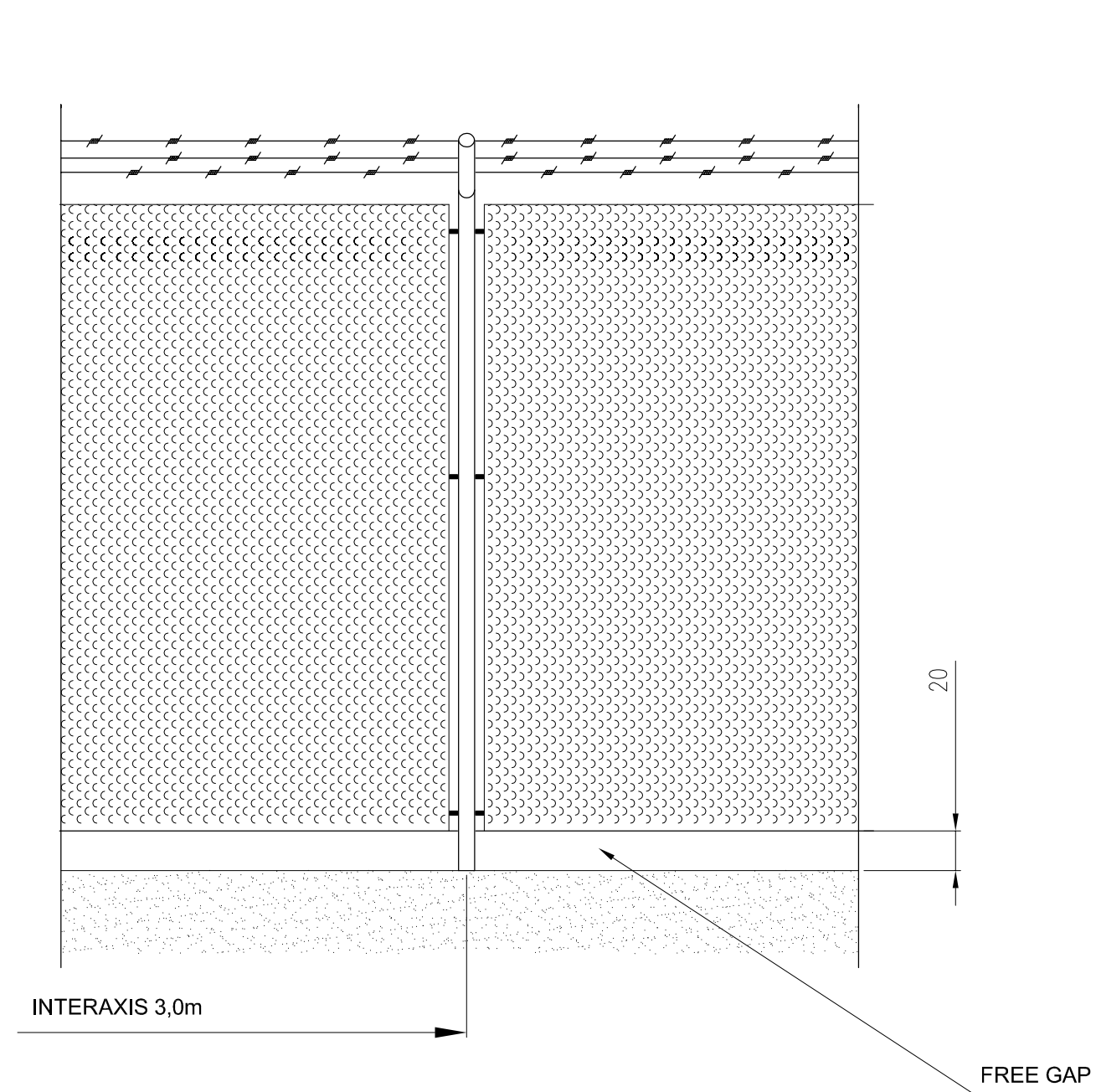


Coordenadas UTM Huso 34 Zona T
Elipsoide / Datum WGS 84

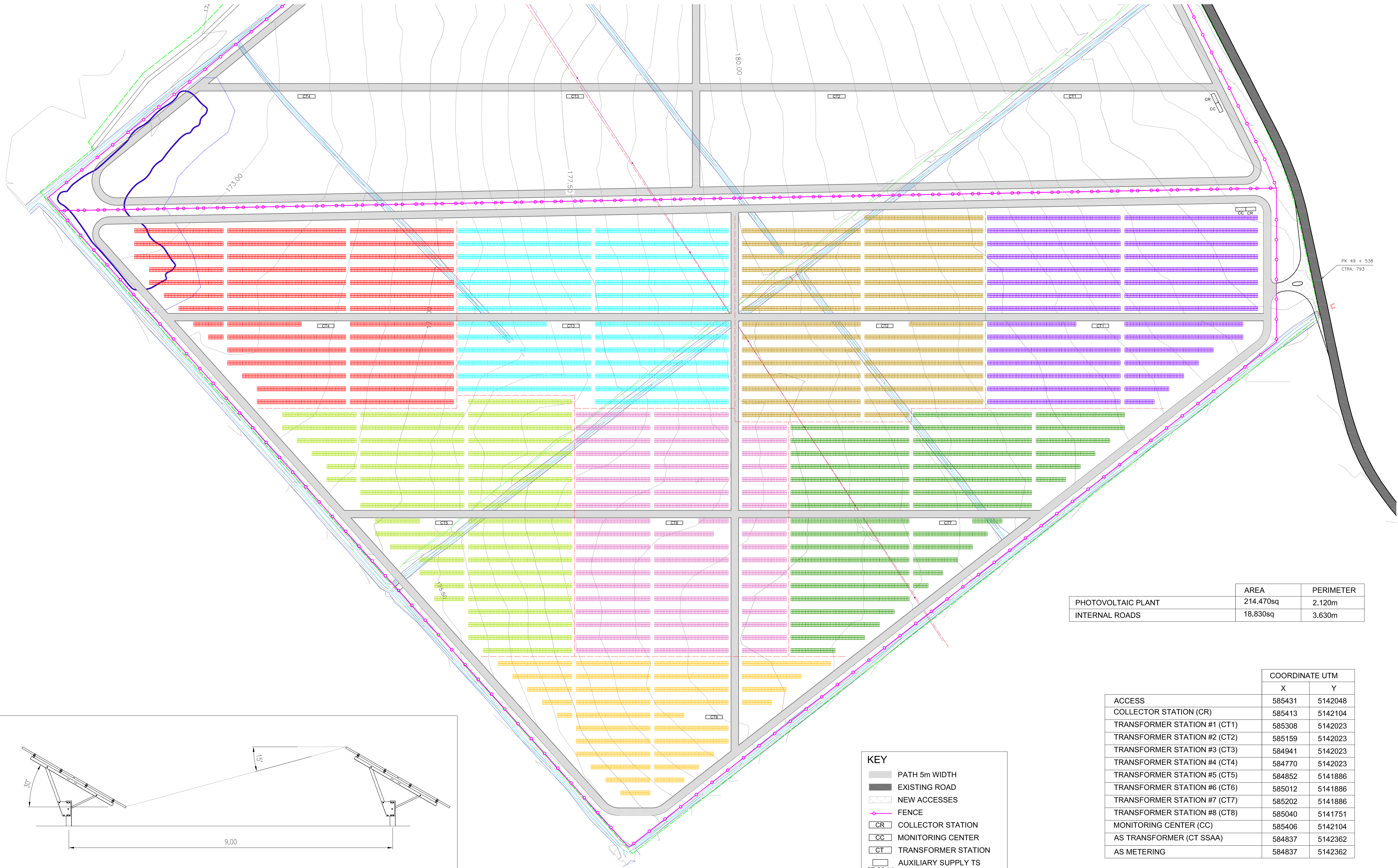
| Est. | X | Y | Z |
|------|------------|-------------|---------|
| E1 | 585082.359 | 5142610.954 | 187.235 |
| E2 | 585181.148 | 5142505.934 | 188.920 |
| E3 | 585366.604 | 5142266.983 | 188.543 |
| E4 | 585096.757 | 5142059.468 | 180.732 |
| E5 | 584816.319 | 5141843.806 | 174.852 |
| E6 | 585459.444 | 5142032.582 | 185.165 |
| E7 | 585468.937 | 5142035.730 | 185.398 |
| E8 | 586105.021 | 5141207.774 | 187.451 |
| E9 | 586595.328 | 5139196.078 | 177.266 |
| E10 | 586541.281 | 5137262.645 | 179.972 |
| E11 | 586464.319 | 5136628.099 | 184.534 |
| E12 | 585955.137 | 5136222.007 | 177.486 |
| E13 | 586433.695 | 5135893.507 | 178.342 |
| E14 | 586163.359 | 5135471.077 | 178.034 |
| E15 | 586981.618 | 5134559.083 | 176.877 |
| E16 | 586968.368 | 5134006.948 | 177.680 |
| E17 | 586966.828 | 5133896.503 | 177.576 |
| E18 | 586965.275 | 5133779.558 | 178.179 |

○ FUTURE INSTALLATION FENCE

| | | | | | | |
|--|--|--|--|--|--|---|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | | |
| <div><div> ibener</div><div><small>Proiectant:</small> energovital <small>energovital.com</small></div></div> | | | | <div><small>Beneficiar:</small> GAMA & DELTA ENERGY SRL <small>Județul Arad Localitatea Arad Str. Căp. Gârgaș nr.50 Ap.2s. 400707011 CUI: RO1000047</small></div> | | <div><small>Proiect nr.:</small> 11/2010</div> |
| <div><small>Specificatie:</small> NUME <small>Scrieți aici</small></div> | | | | <div><small>Denumire proiect:</small> FERMA SOLARA DE PRODUCERE A ENERGII ELECTRICE SERIS</div> | | <div><small>Faza:</small> DTAC</div> |
| <div><small>Sef proiect:</small> ing. Ioan Berenghi</div> | | | | <div><small>Data:</small> Sept 2012</div> | | |
| <div><small>Proiectat:</small> ing. Dragos Baghici</div> | | | | <div><small>Scara:</small> 1:1,250</div> | | <div><small>Planşa nr.:</small> 03</div> |
| <div><small>Desenat:</small> ing. Tudor But</div> | | | | <div><small>Titlul planşei:</small> PLAN TOPOGRAFIC</div> | | |



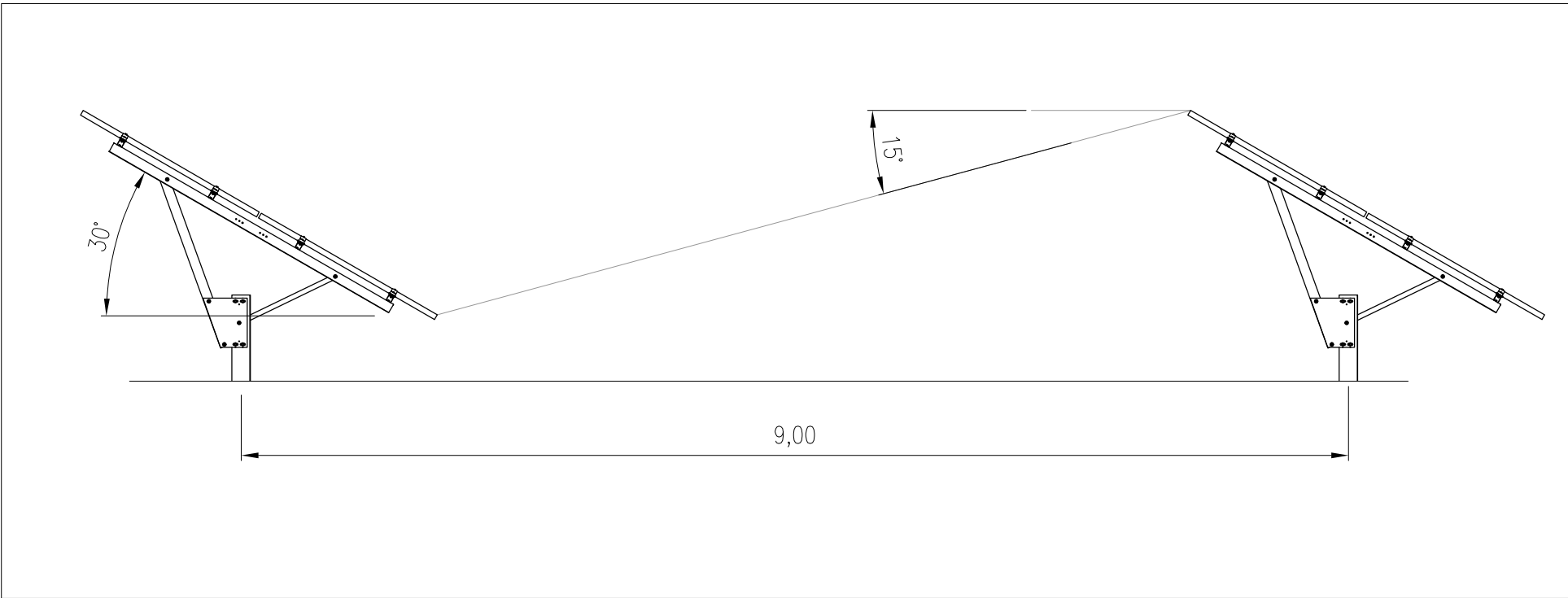
| | | | | | |
|---|--------------------|------------|-----------|--|------------------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| GIPEN ibener | | | | | |
| Proiectant: S.C. Energovoltaic Group S.R.L. Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: | Plansa Nr. |
| Desenat: | Ing.Traian Ihut | | 1:20 | DETALII IMPREJMUIRE | 05 |



| | | |
|--------------------|-----------|-----------|
| PHOTOVOLTAIC PLANT | AREA | PERIMETER |
| INTERNAL ROADS | 214.470sq | 2.120m |
| | 18.830sq | 3.630m |

| | COORDINATE UTM | |
|------------------------------|----------------|---------|
| | X | Y |
| ACCESS | 585431 | 5142048 |
| COLLECTOR STATION (CR) | 585413 | 5142104 |
| TRANSFORMER STATION #1 (CT1) | 585308 | 5142023 |
| TRANSFORMER STATION #2 (CT2) | 585159 | 5142023 |
| TRANSFORMER STATION #3 (CT3) | 584941 | 5142023 |
| TRANSFORMER STATION #4 (CT4) | 584770 | 5142023 |
| TRANSFORMER STATION #5 (CT5) | 584852 | 5141886 |
| TRANSFORMER STATION #6 (CT6) | 585012 | 5141886 |
| TRANSFORMER STATION #7 (CT7) | 585202 | 5141886 |
| TRANSFORMER STATION #8 (CT8) | 585040 | 5141751 |
| MONITORING CENTER (CC) | 585406 | 5142104 |
| AS TRANSFORMER (CT SSAA) | 584837 | 5142362 |
| AS METERING | 584837 | 5142362 |

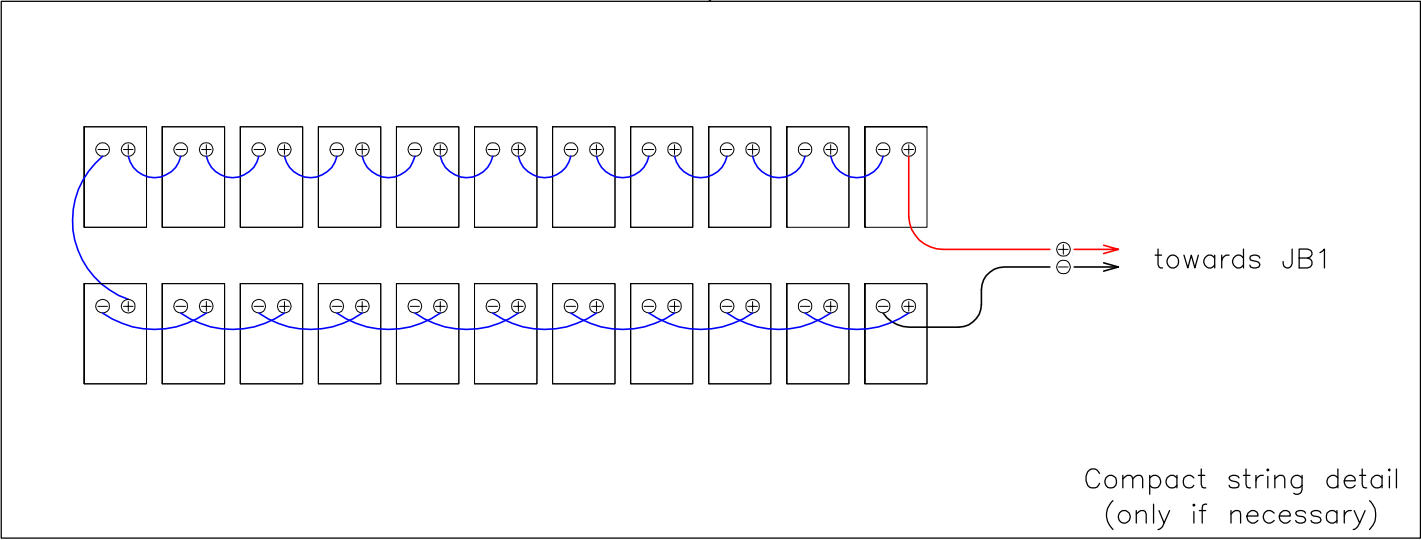
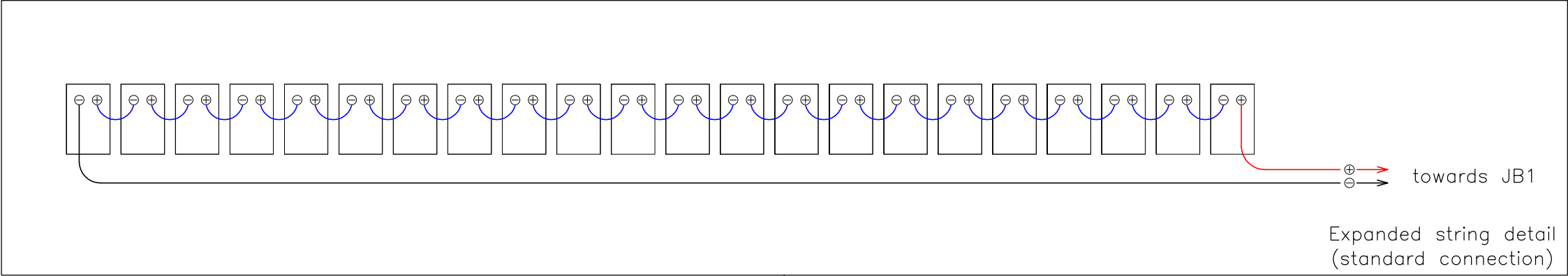
- KEY**
- PATH 5m WIDTH
 - EXISTING ROAD
 - NEW ACCESSES
 - FENCE
 - CR COLLECTOR STATION
 - CC MONITORING CENTER
 - CT TRANSFORMER STATION
 - AUXILIARY SUPPLY TS
 - CT SS.AA.






DISTANCE BETWEEN ROWS (PITCH)
1:50

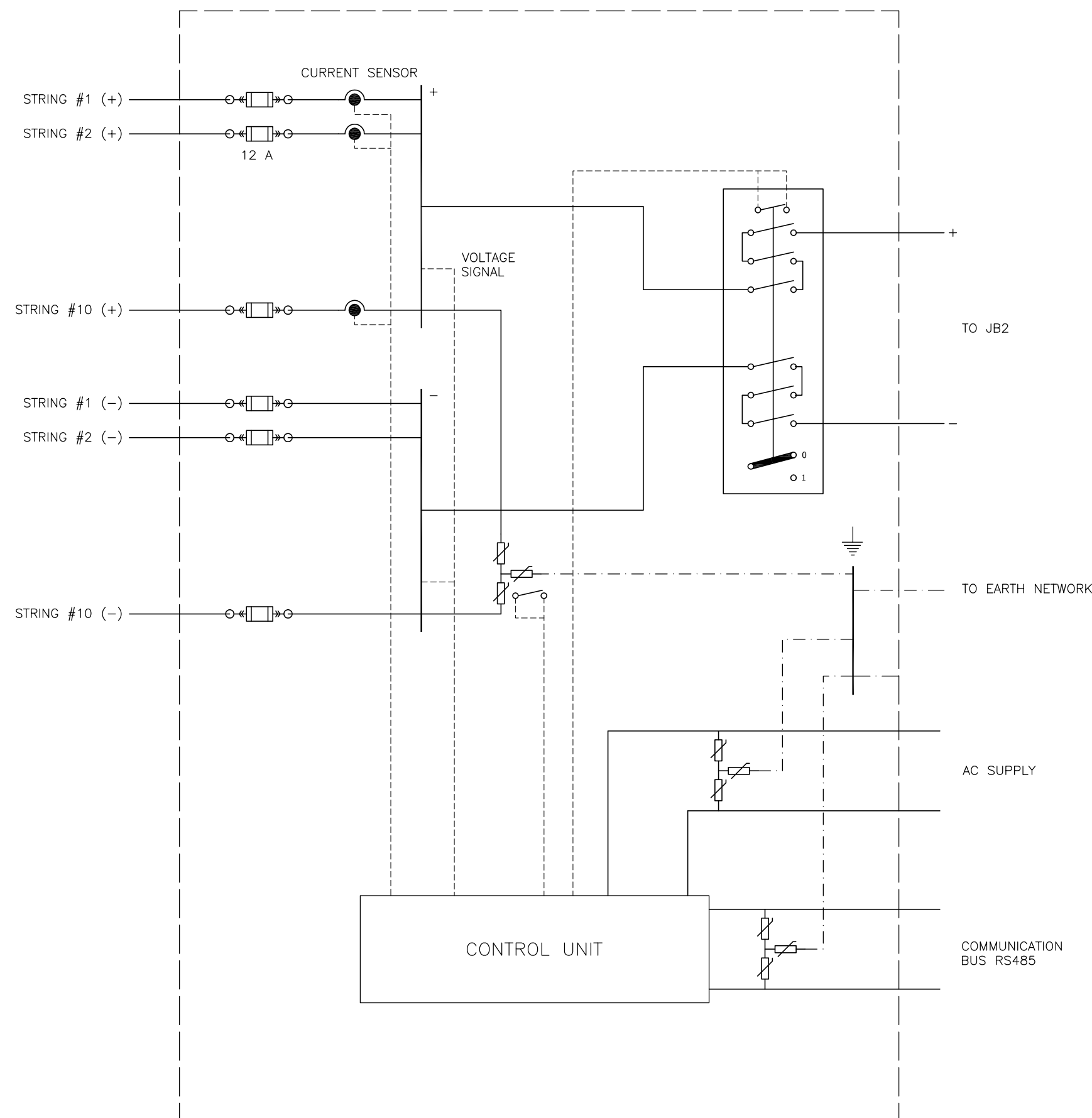
PEAK POWER: 8,820 MWp
1800 STRINGS WITH 20 CHINT 245 Wp IN SERIES
INVERTERS TOTAL POWER: 7,50 MW




| | | | | | |
|---|--|--|--|--|---------------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| | | | | | |
| Proiectant: S.C. Energetica Grup S.R.L. | | | | Beneficiar: CANA & DELTA ENERGY S.R.L. | Proiect nr. 11/2010 |
| Sef proiect: Ing. Ioan Berenghi | | | | Faza: DTAJ | |
| Proiectat: Ing. Dragos Baphtu | | | | Planşa nr. 07 | |
| Desenat: Ing. Tudor But | | | | | |

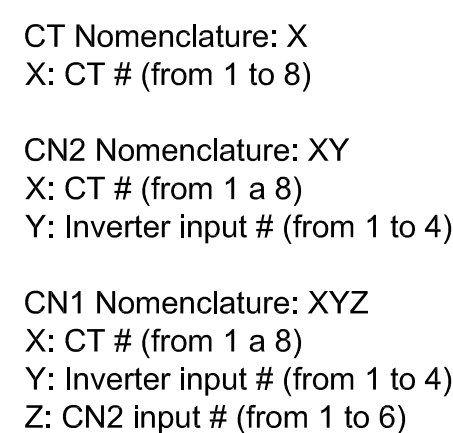
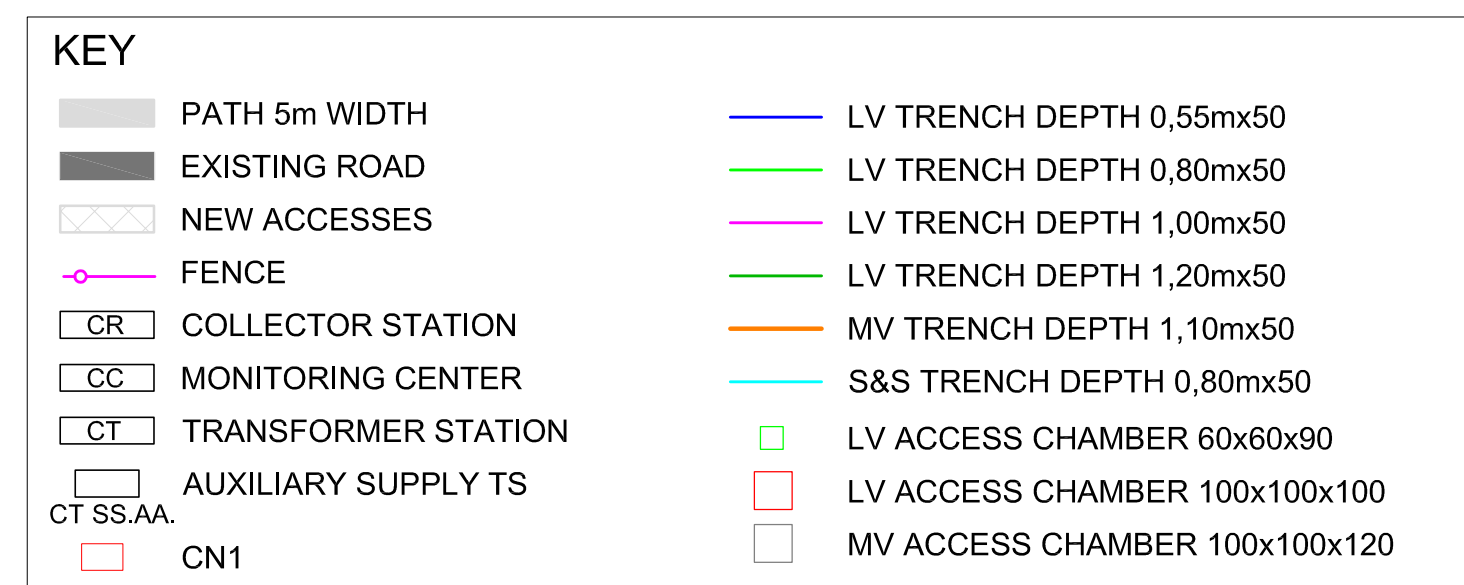


| | | | | | |
|--|--------------------|------------|-----------|---|------------------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltaj Group S.R.L., Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: DTAC |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: DETALII CONECTARE DC | Plansa Nr. II |
| Desenat: | Ing.Traian Ihut | | - | | |

JUNCTION BOX, LEVEL 1 (JB1)

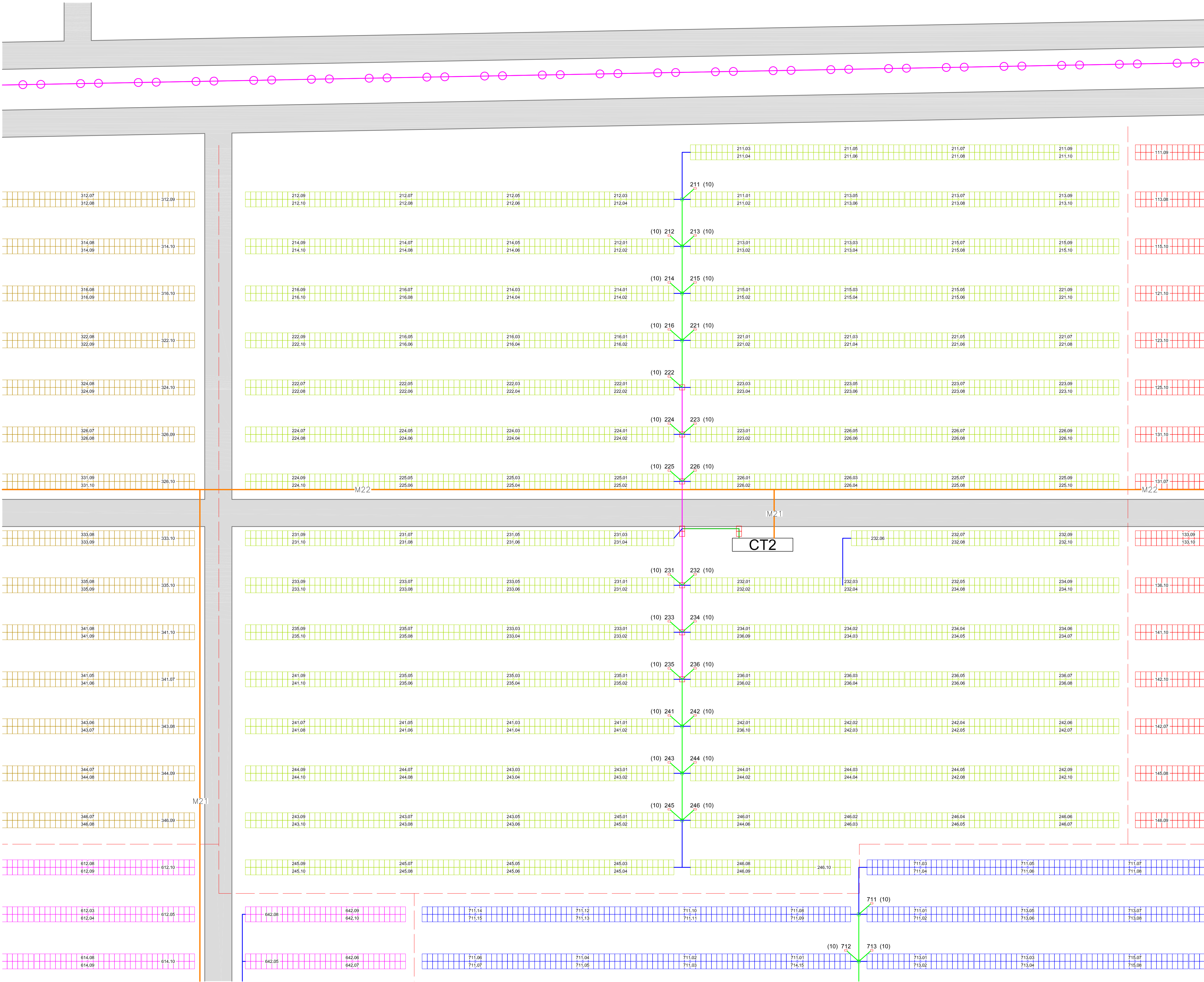


| | | | | | |
|---|--------------------|------------|-----------|--|------------------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltaj Group S.R.L. Localitatea Arad, Str. Metanu, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: DTAC |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: DIAG. A CASETEI DE LEGATURA DE NIVEL I | Plansa Nr. 12 |
| Desenat: | Ing.Traian Ihut | | - | | |



| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm ²) | STRING SECTION (mm ²) | | | | | | | | | |
|-----|----------|-----------------------|-----|----------------|------------------------------------|-----------------------------------|---|---|---|----|----|----|----|----|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 1.1.1 | 11 | 111 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 4 |
| | | | 112 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 4 |
| | | | 113 | 10 | 300 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 4 | 4 |
| | | | 114 | 10 | 300 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 4 | 4 |
| | | | 115 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 10 |
| | | | 116 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 10 |
| | | 12 | 121 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 122 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 123 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 124 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 125 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 126 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | 1.1.2 | 13 | 131 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 132 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 133 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 134 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 14 | 135 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 136 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 141 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 142 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| 143 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | | | |
| 144 | 10 | 120 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| 145 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 6 | 6 | | | |
| 146 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | | | |

| | | | | | |
|--|--|--|--|-------------------------------|--|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR.DATA | |
|   | | | | | |
| Proiectant:  S.C. Energoval Group S.R.L. Localitatea: Buză, Str. Mihail Kogălniceanu, Nr. 1, Corp. 4 Str. Reg. Com. J. Buză, Nr. 2.15.1.1, C. Jud. Buză Nr. Reg. Com. J. Buză, Nr. 2.15.1.1, C. Jud. Buză | | Beneficiar: GAMA DE TRACȚIA FERVIER SA Județul Giurgiu, Str. Cpt. Grigore Gheorghe, Nr. 10, P. 2 J. Buză 10701111, C. Jud. Buză | | Proiect nr. 11/2010 | |
| SPECIFICATIE: _____ NUME _____ Semnatura: _____ Data: _____ Serp proiect: Inq.-Jocan Benoneq Sept 2012 | | Denumire proiect: FIRMA SOLAR DE PRODUCERE A ENERGIEI ELECTRICE SERVIS | | FAZA: DTAC | |
| Proiectat: Inq.Dragos Baghda _____ Desenat: Inq.Trăian Tru _____ | | Titlul planșei: JBI - LOCALITAȚA CĂBLURI SI SECȚIUNE - TBSI | | Planșa Nr. 1/3A | |



| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm ²) | STRING SECTION (mm ²) | | | | | | | | | |
|----|----------|-----------------------------|-----|-------------------|--|-----------------------------------|---|---|---|---|---|---|---|----|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | I.2.1 | 21 | 211 | 10 | 240 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 212 | 10 | 185 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 213 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 214 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 215 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 216 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 22 | 221 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 222 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 223 | 10 | 185 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 224 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 225 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 226 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | I.2.2 | 23 | 231 | 10 | 185 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 232 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 233 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 234 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 235 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 236 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | 24 | 241 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 242 | 10 | 300 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 243 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 244 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 |
| | | | 245 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 246 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 6 |

KEY

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EXISTING ROAD

NEW ACCESSES

FENCE

COLLECTOR STATION

MONITORING CENTER

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

nr. of strings
per JB1

STRING KEY

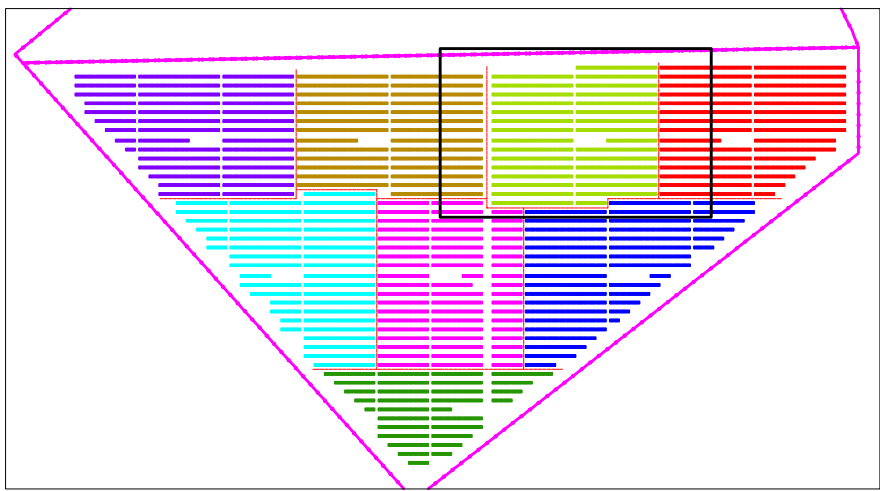
string nr.

CT Nomenclature: X
X: CT # (from 1 to 8)

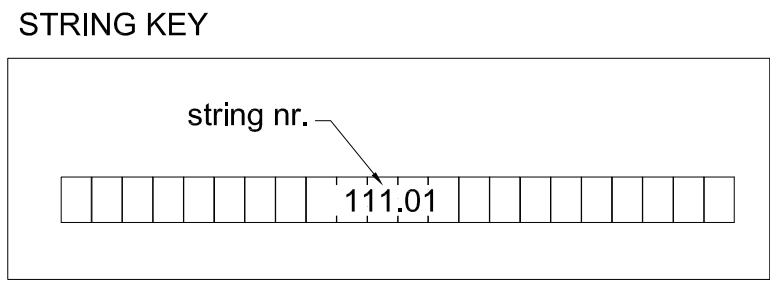
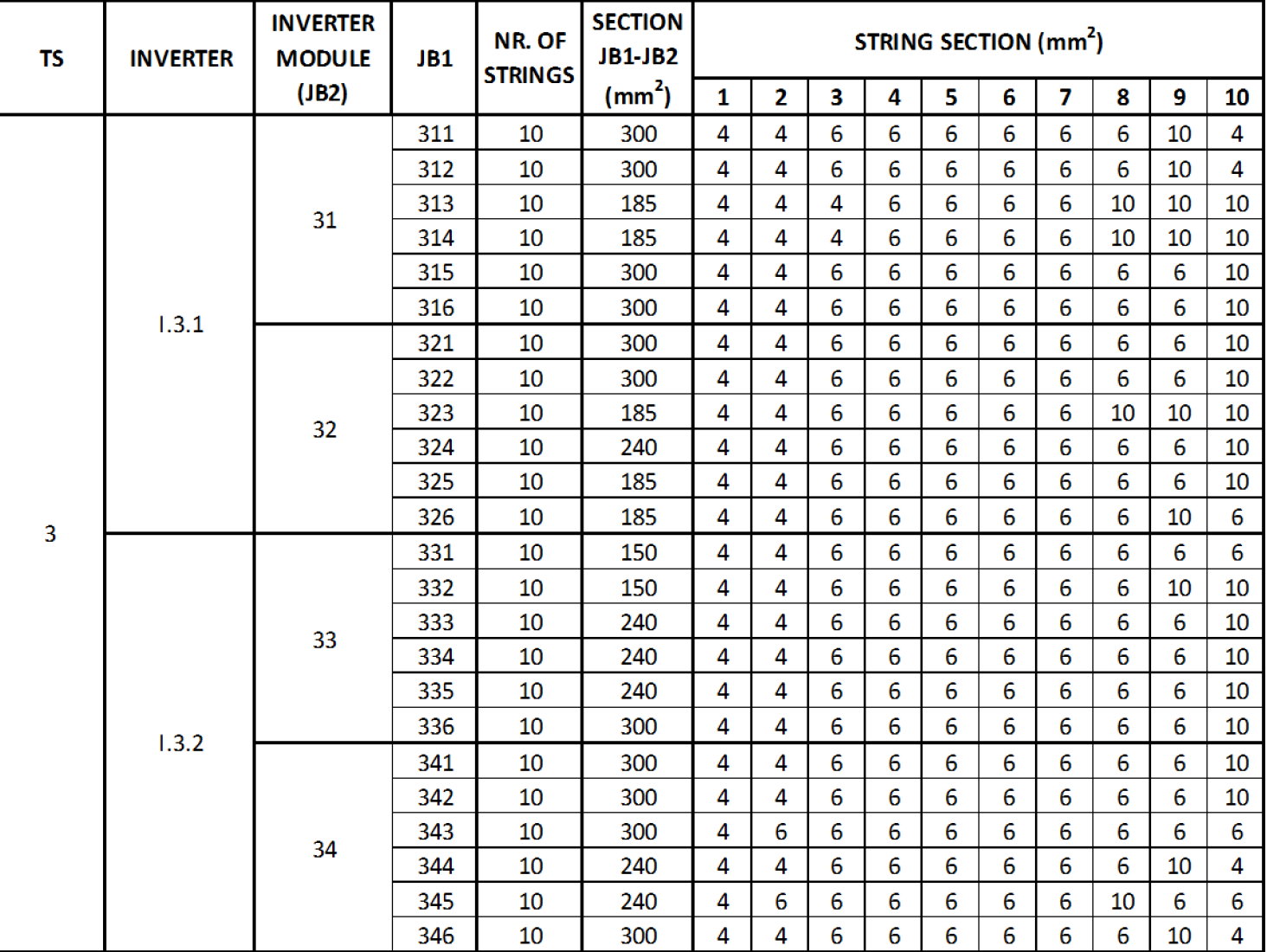
CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

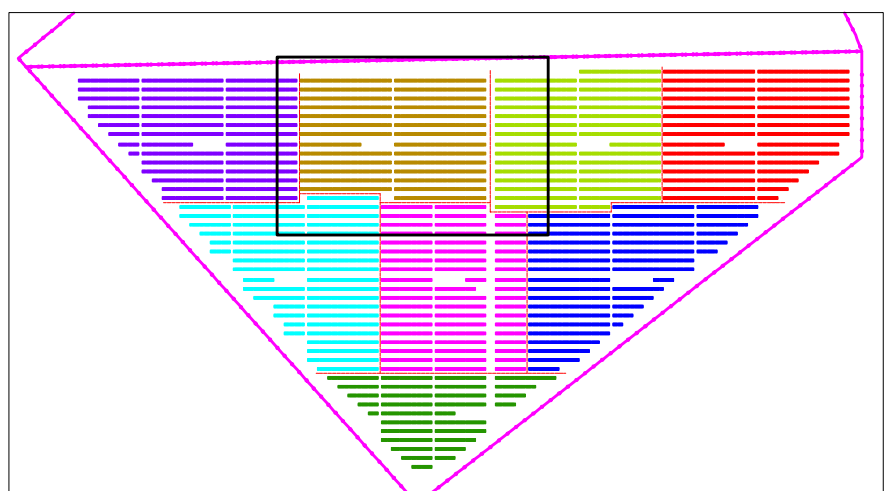
FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

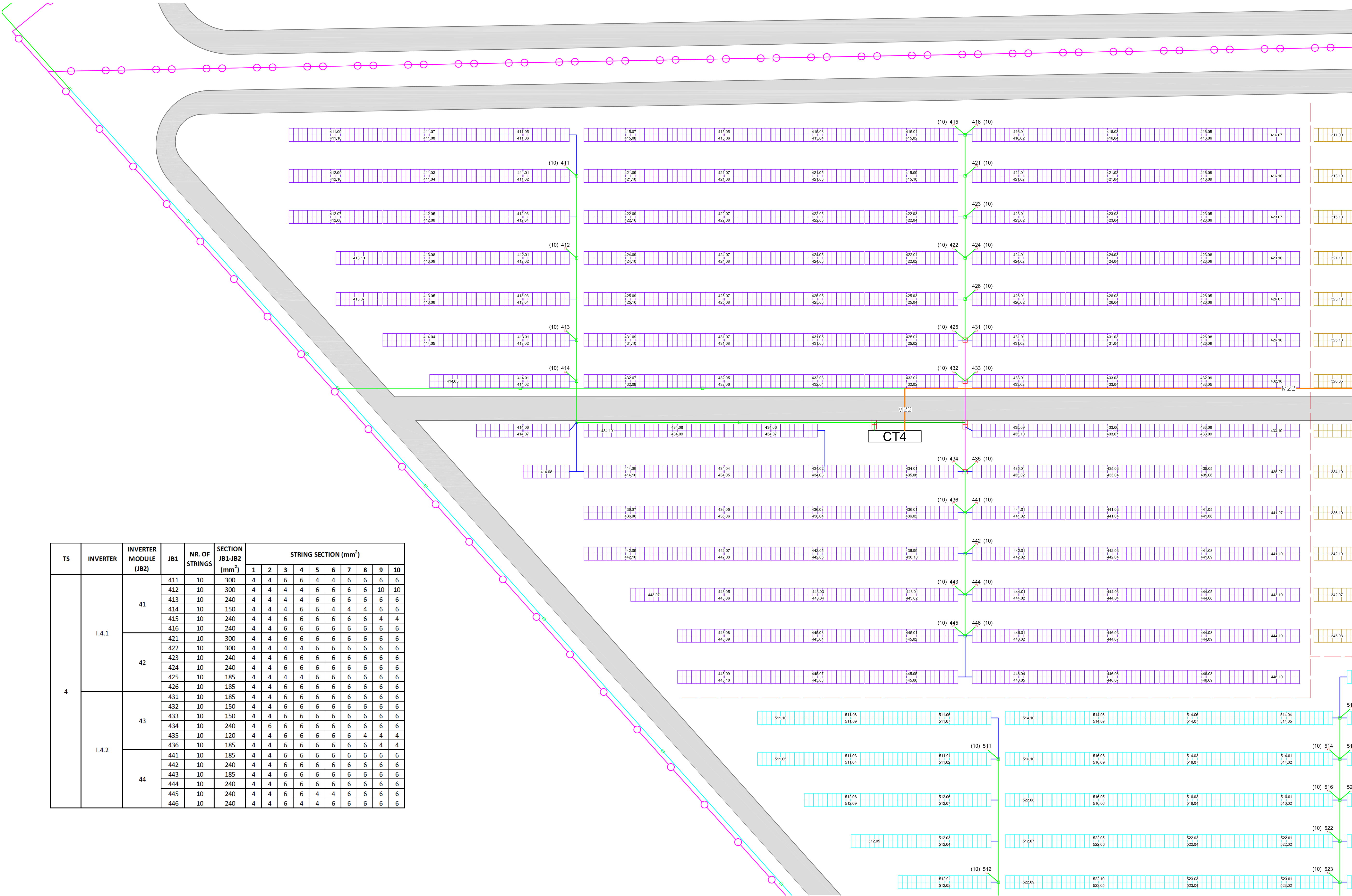


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| Management de proiect: | | | REFERAT DE VERIFICARE NR./DATA | | |
| <div><div><div></div></div><div>ibener</div></div> | | | | | |
| Proiectant: | | | Beneficiar: | | |
| S.C. Energogroup Group S.R.L. Localitatea Arad, Str. Mezeu Noi, C. 21, A. 2, Corp. C, Nr. 1 P.O. Box 60, Tel: 0258 200.000, Fax: 0258 200.010 www.ibener.ro, E-mail: info@ibener.ro | | | GAMA & BETA ENERGETICS S.R.L. Județul Arad, Localitatea Arad, Str. Clujului nr. 10, P.O. Box 302575155, Tel: 0258 200.055 | | |
| Proiect nr. 11/2010 | | | | | |
| SPECIFICATIE: | | | Denumire proiect: | | |
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FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

[illegible]



| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm ²) | STRING SECTION (mm ²) | | | | | | | | | |
|----|----------|-----------------------|-----|----------------|------------------------------------|-----------------------------------|---|---|---|---|---|---|---|----|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 4 | I.4.1 | 41 | 411 | 10 | 300 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 412 | 10 | 300 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 413 | 10 | 240 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 414 | 10 | 150 | 4 | 4 | 4 | 6 | 6 | 4 | 4 | 4 | 6 | 6 |
| | | | 415 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | | 416 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 42 | 421 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 422 | 10 | 300 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 423 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 424 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 425 | 10 | 185 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | I.4.2 | 43 | 426 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 431 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 432 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 433 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 434 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 44 | 435 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 |
| | | | 436 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | | 441 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 442 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 443 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 444 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 445 | 10 | 240 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 446 | 10 | 240 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

JB1 nr.

111 (9)

nr. of strings per JB1

STRING KEY

string nr.

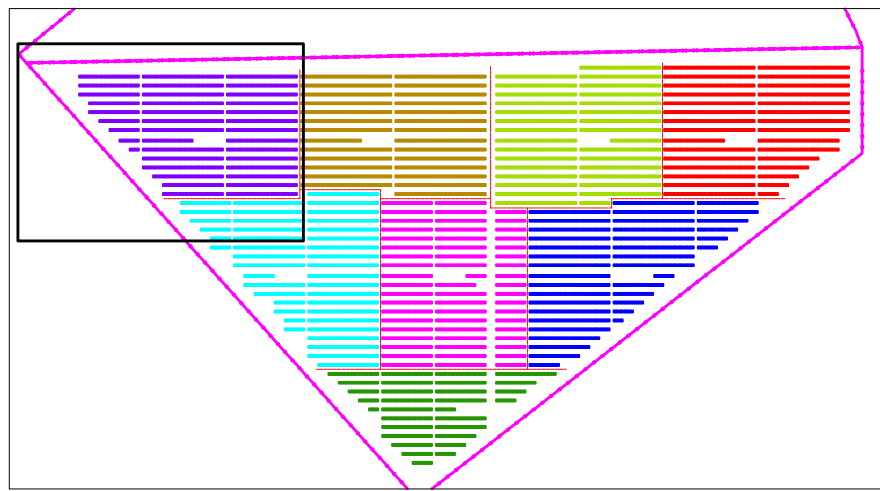
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CT Nomenclature: X
X: CT # (from 1 to 8)

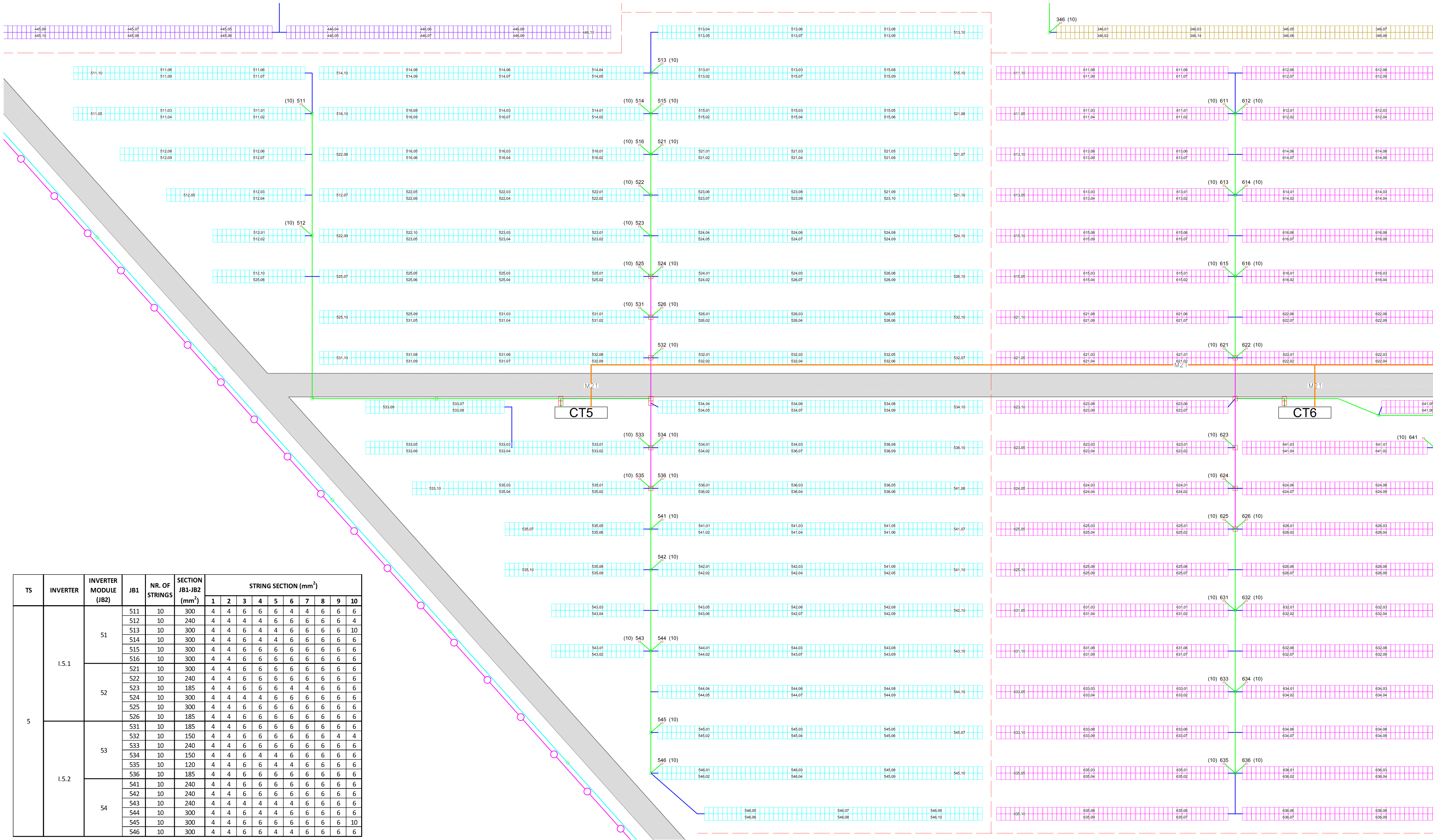
CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE CORRESPONDING DRAWING

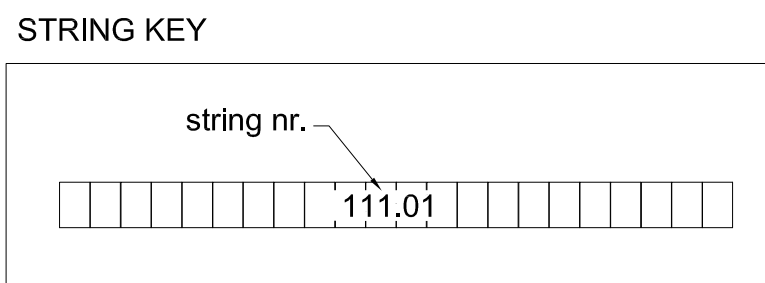
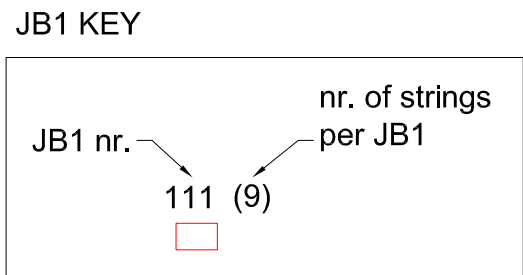


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| Management de proiect: | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div><div><div></div></div><div>ibener</div></div><div><div>Proiectant:</div><div>S.C. Energoinvest Group S.R.L.</div><div>Localitate: Iasi, Str. Buzesti, Nr. 23, Et. 1, Corp. A</div><div>Nr. Reg. Com. 3025972/009 CUI: RO22050162, SII 05341428</div><div>www.energoinvest.ro</div></div></div> <div><div>Beneficiar:</div><div>GAMA A BETA ENEROX S.R.L.</div><div>Județul Iasi Localitatea Iasi Str. C.D. Gigaș Ioni, nr.50 AP. 2a</div><div>36040702/0111/11/11/2010</div></div> | | Proiect nr. 11/2010 | |
| <div><div>Specificatie:</div><div>NUME</div><div>Semnatura:</div><div>Data:</div></div> <div><div>Señ project:</div><div>Ing. Jozsef Bereczki</div><div>Sept 2012</div></div> <div><div>Proiectat:</div><div>Ing. Dorel Bărbulescu</div><div>Sept 2012</div></div> <div><div>Desenat:</div><div>Ing. Tiberiu Ioni</div><div>11/2010</div></div> | | Denumire proiect: FARMACIARA DE PRODUCERE A ENERGIIELECTRICE SI/SAI | |
| FAZA: DTAC | | Planşa Nr. 13D | |



| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm²) | STRING SECTION (mm²) | | | | | | | | | |
|----|----------|-----------------------|-----|----------------|-----------------------|----------------------|---|---|---|---|---|---|---|---|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 5 | I.5.1 | 51 | 511 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 512 | 10 | 240 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 4 |
| | | | 513 | 10 | 300 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 6 | 6 | 10 |
| | | | 514 | 10 | 300 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| | | | 515 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 516 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 52 | 521 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 522 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 523 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 524 | 10 | 300 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 525 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | I.5.2 | 53 | 526 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 531 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 532 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | | 533 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 534 | 10 | 150 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| | | 54 | 535 | 10 | 120 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 536 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 541 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 542 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 543 | 10 | 240 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 544 | 10 | 300 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| | | | 545 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 546 | 10 | 300 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |

| KEY | |
|-----|-------------------------------|
| | PATH 5m WIDTH |
| | EXISTING ROAD |
| | NEW ACCESSSES |
| | FENCE |
| | COLLECTOR STATION |
| | MONITORING CENTER |
| | TRANSFORMER STATION |
| | AUXILIARY SUPPLY TS |
| | CN1 |
| | LV TRENCH DEPTH 0,55mx50 |
| | LV TRENCH DEPTH 0,80mx50 |
| | LV TRENCH DEPTH 1,00mx50 |
| | LV TRENCH DEPTH 1,20mx50 |
| | MV TRENCH DEPTH 1,10mx50 |
| | S&S TRENCH DEPTH 0,80mx50 |
| | LV TRENCH TYPE |
| | LV ACCESS CHAMBER 60x60x90 |
| | LV ACCESS CHAMBER 100x100x100 |
| | MV ACCESS CHAMBER 100x100x120 |

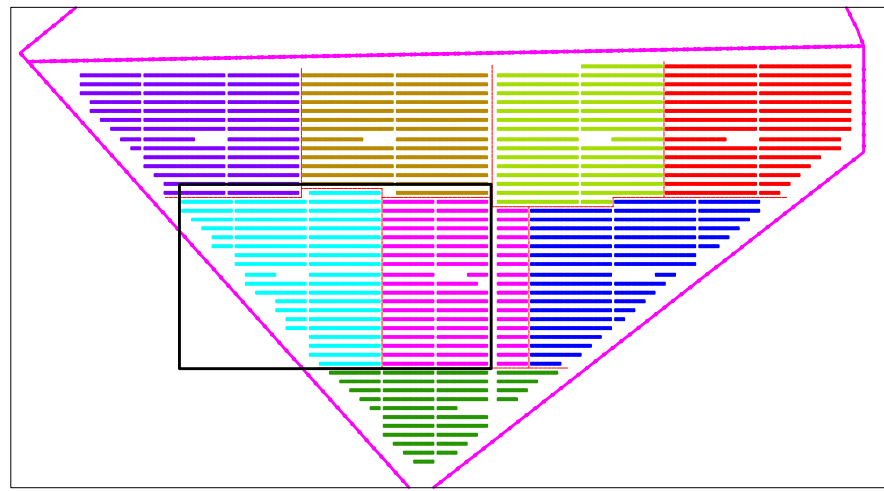


CT Nomenclature: X
X: CT # (from 1 to 8)

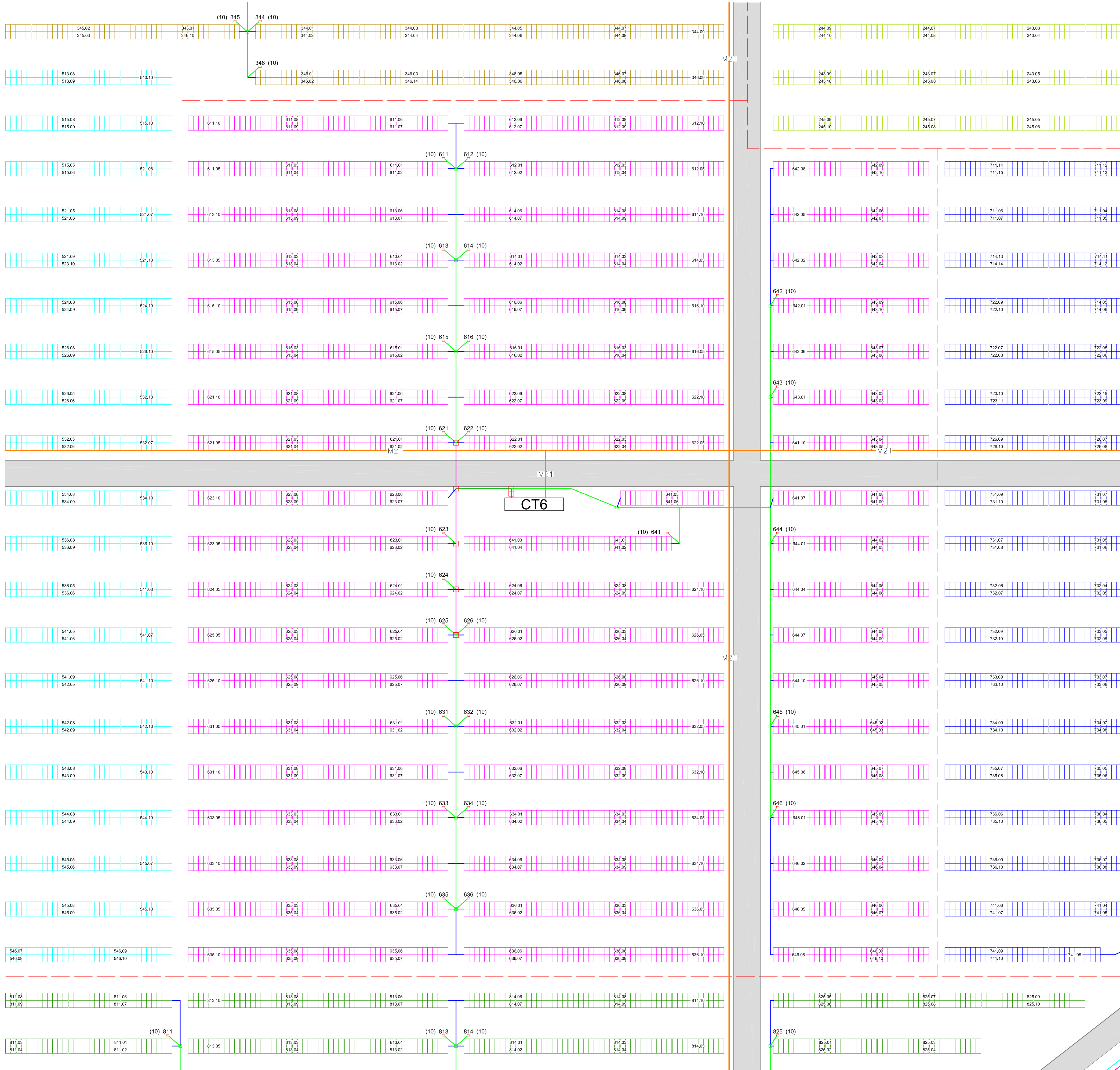
CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE CORRESPONDING DRAWING



| | | | |
|--|--|---|--|
| Management de proiect: | | REFERAT DE VERIFICARE NR./DATA | |
| | | | |
| Proiectant: | | Beneficiar: | |
| S.C. Energoval Group S.R.L. Localitatea Iasi, Nr. Bulevard Nr. 23, Sc. 1, Corp. A Nr. Reg. Com. 202097209 CUI: RO2209342, SII 05344230 www.energoval.ro | | GAMA & DELTA ENERGO S.R.L. Județul Iasi Localitatea Iasi Str. C. D. Gheorghe Ionescu, nr.50 AP. 2a 202097209 CUI: RO2209342 | |
| Sef proiect: | | Desenat: | |
| Ing. Jozsef Bereznay | | Ing. Tiberiu Iltis | |
| Proiectat: | | Scurt: | |
| Ing. Dorel Bărbulescu | | 1:400 | |
| Desenat: | | Trib. planșă: | |
| | | JB1 - LOCALITA. CABLURILOR SI SECTIUNE - TSS | |
| | | Planșă Nr. 13E | |
| | | Proiect nr. 11/2010 | |
| | | FAZA: DTAC | |



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

CR COLLECTOR STATION

CC MONITORING CENTER

CT TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

JB1 KEY

STRING KEY

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm²) | STRING SECTION (mm²) | | | | | | | | | |
|----|----------|-----------------------------|-----|-------------------|-----------------------------|----------------------|---|---|---|---|---|---|---|---|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 6 | I. 5.1 | 61 | 611 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 612 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 613 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 614 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 615 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 616 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | 62 | 621 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 622 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 623 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 624 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 625 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 626 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | I. 5.2 | 63 | 631 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 632 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 633 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 634 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 635 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 636 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | 64 | 641 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 642 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 643 | 10 | 185 | 4 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 |
| | | | 644 | 10 | 150 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 645 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 646 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

KEY DRAWING

Management de proiect:

GIPEN

ibener

Proiectant:

Locul de munca:

Se proiectant:

Proiectant:

Desenat:

S.C. Energetica Grup S.R.L.

Locul de munca:

Se proiectant:

Proiectant:

Desenat:

NUME:

NUME:

NUME:

NUME:

Semnatura:

Semnatura:

Semnatura:

Semnatura:

Data:

Data:

Data:

Data:

Detinator proiect:

Titlu planșă:

Titlu planșă:

Titlu planșă:

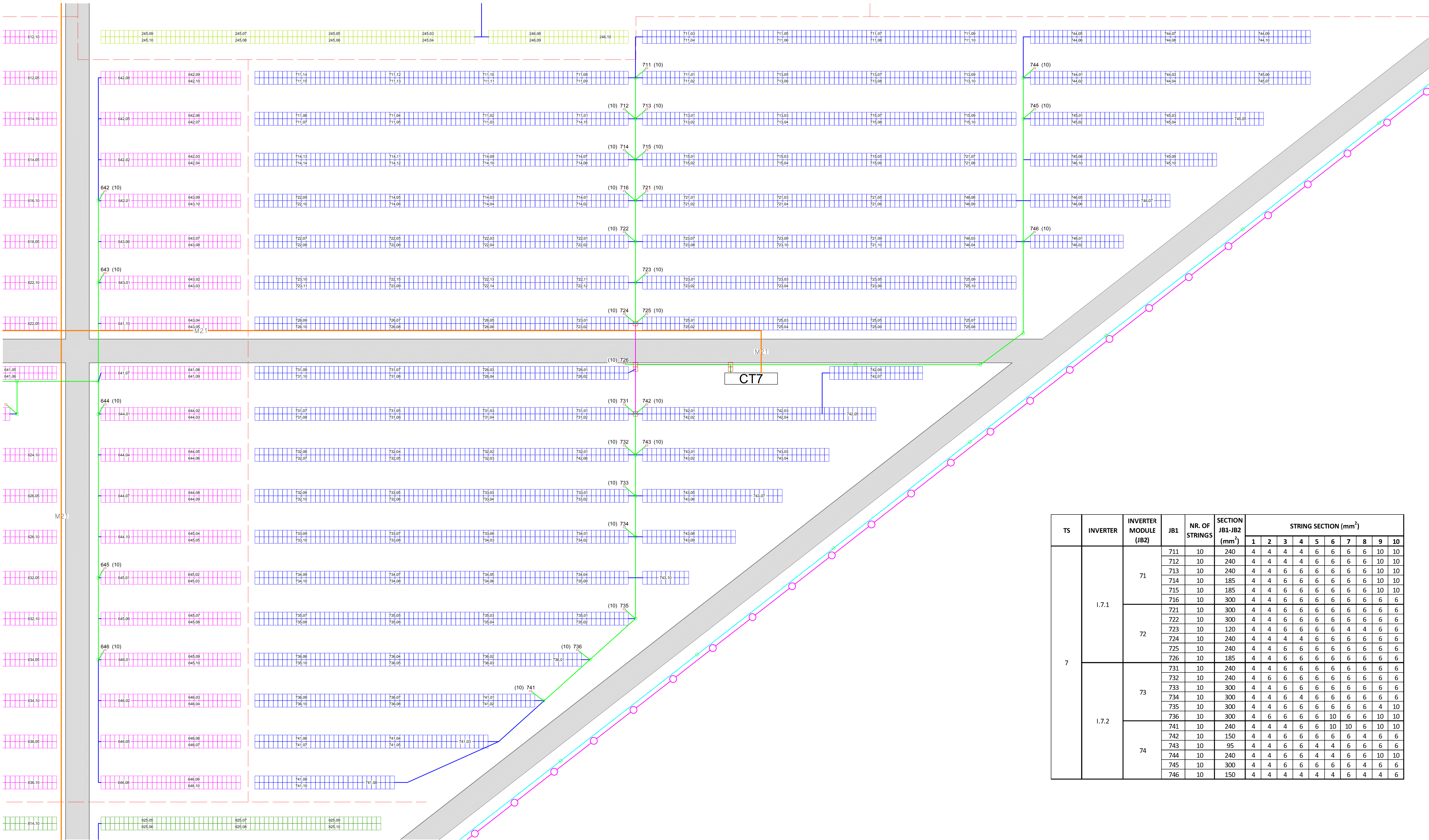
Referat de verificare:

NR./DATA

Proiect nr. 11/2010

FAZA: D.T.A.C.

Planșă Nr. 13F



| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm²) | STRING SECTION (mm²) | | | | | | | | | |
|----|----------|-----------------------|-----|----------------|-----------------------|----------------------|---|---|---|---|----|----|---|----|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 7 | I.7.1 | 71 | 711 | 10 | 240 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 712 | 10 | 240 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 713 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 714 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 715 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 716 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 72 | 721 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 722 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 723 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 6 | 4 | 4 | 6 | 6 |
| | | | 724 | 10 | 240 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 725 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 726 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | I.7.2 | 73 | 731 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 732 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 733 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 734 | 10 | 300 | 4 | 4 | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 735 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 10 |
| | | | 736 | 10 | 300 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | 74 | 741 | 10 | 240 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 6 | 10 | 10 |
| | | | 742 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 4 | 6 | 6 |
| | | | 743 | 10 | 95 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 744 | 10 | 240 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 10 | 10 |
| | | | 745 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 4 | 6 | 6 |
| | | | 746 | 10 | 150 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 6 |

| KEY | |
|-----|-------------------------------|
| | PATH 5m WIDTH |
| | EXISTING ROAD |
| | NEW ACCESSES |
| | FENCE |
| | COLLECTOR STATION |
| | MONITORING CENTER |
| | TRANSFORMER STATION |
| | AUXILIARY SUPPLY TS |
| | CN1 |
| | LV TRENCH DEPTH 0,55mx50 |
| | LV TRENCH DEPTH 0,80mx50 |
| | LV TRENCH DEPTH 1,00mx50 |
| | LV TRENCH DEPTH 1,20mx50 |
| | MV TRENCH DEPTH 1,10mx50 |
| | S&S TRENCH DEPTH 0,80mx50 |
| | LV TRENCH TYPE |
| | LV ACCESS CHAMBER 60x60x90 |
| | LV ACCESS CHAMBER 100x100x100 |
| | MV ACCESS CHAMBER 100x100x120 |

| JB1 KEY | |
|---------|------------------------|
| JB1 nr. | nr. of strings per JB1 |
| 111 (9) | |

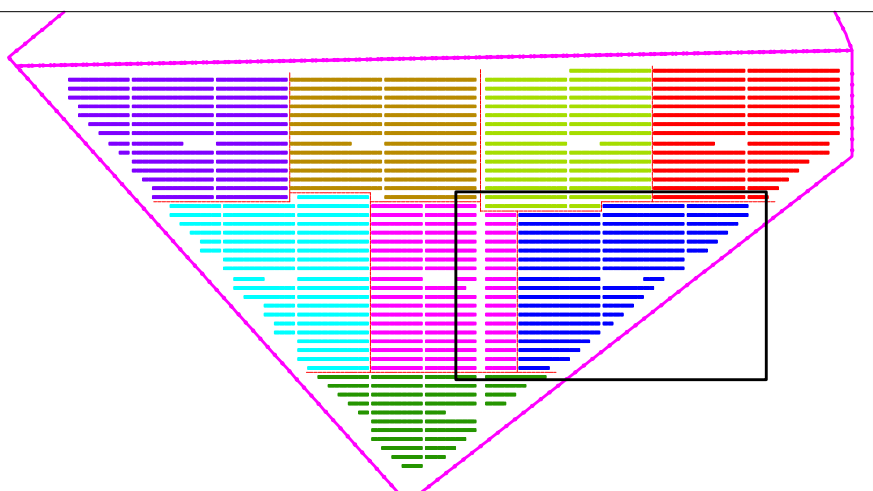
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|------------|--|
| string nr. | |
| 111,01 | |

CT Nomenclature: X
X: CT # (from 1 to 8)

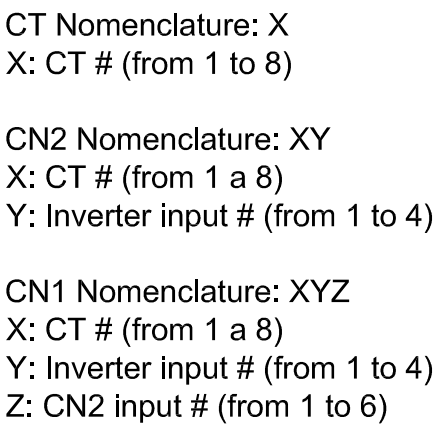
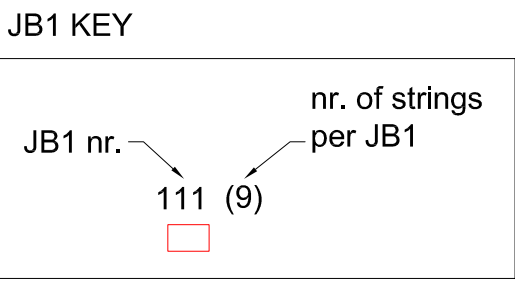
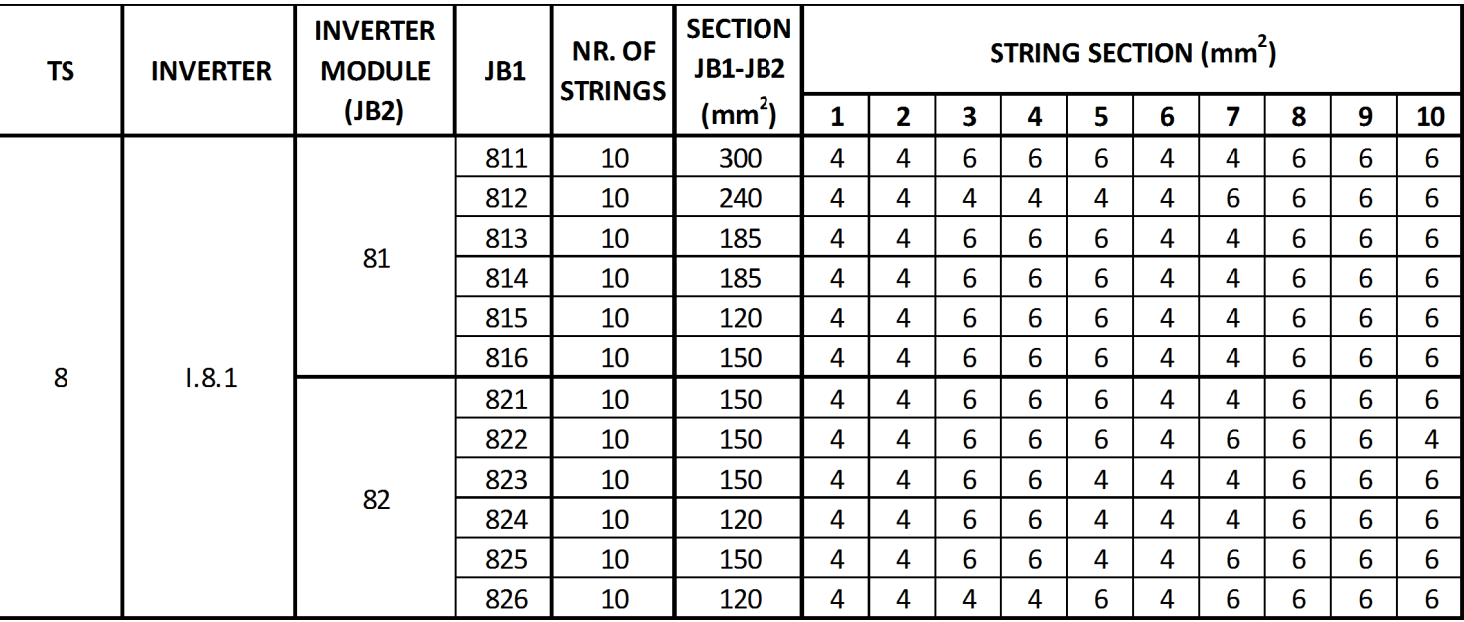
CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

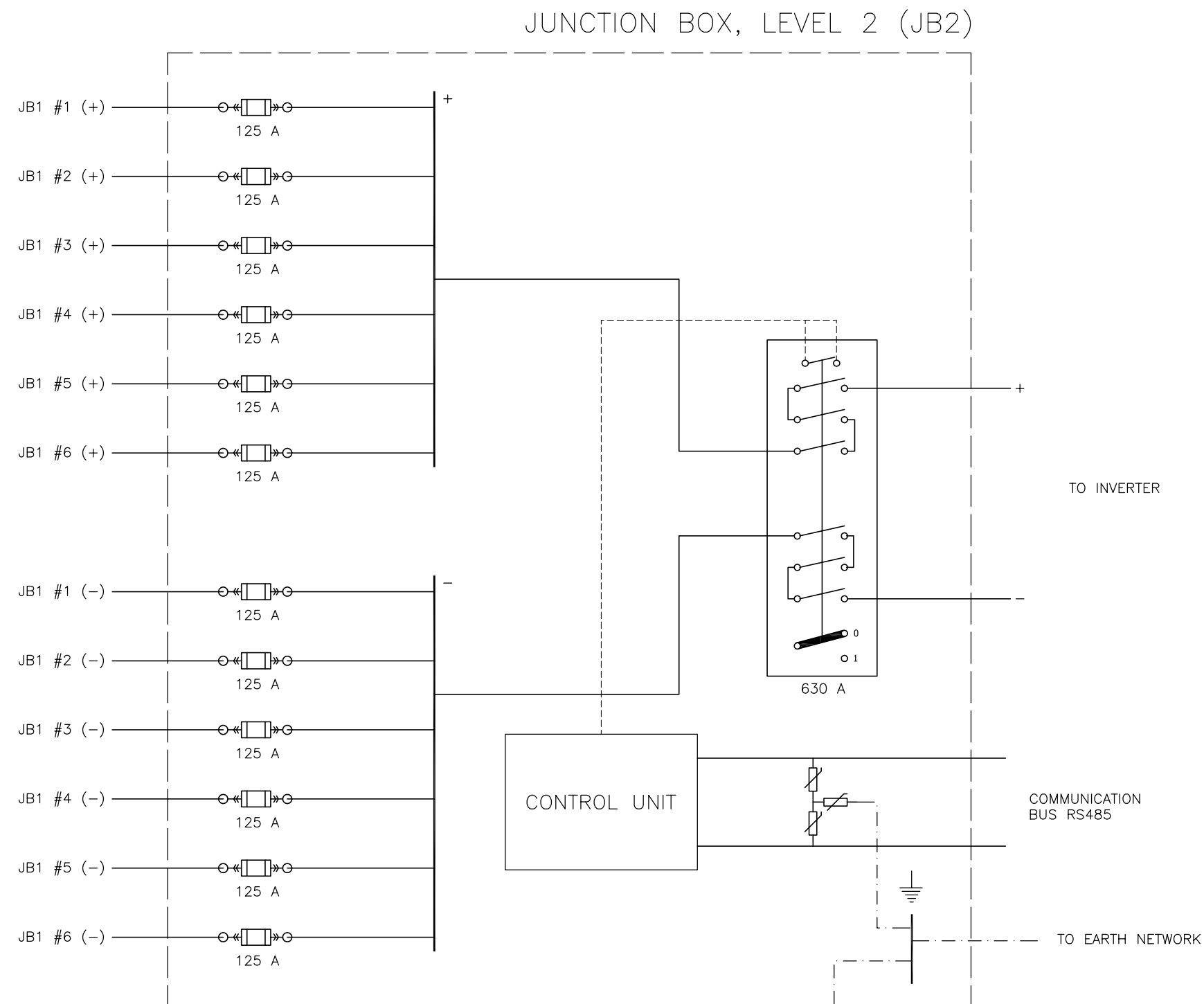
CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE CORRESPONDING DRAWING

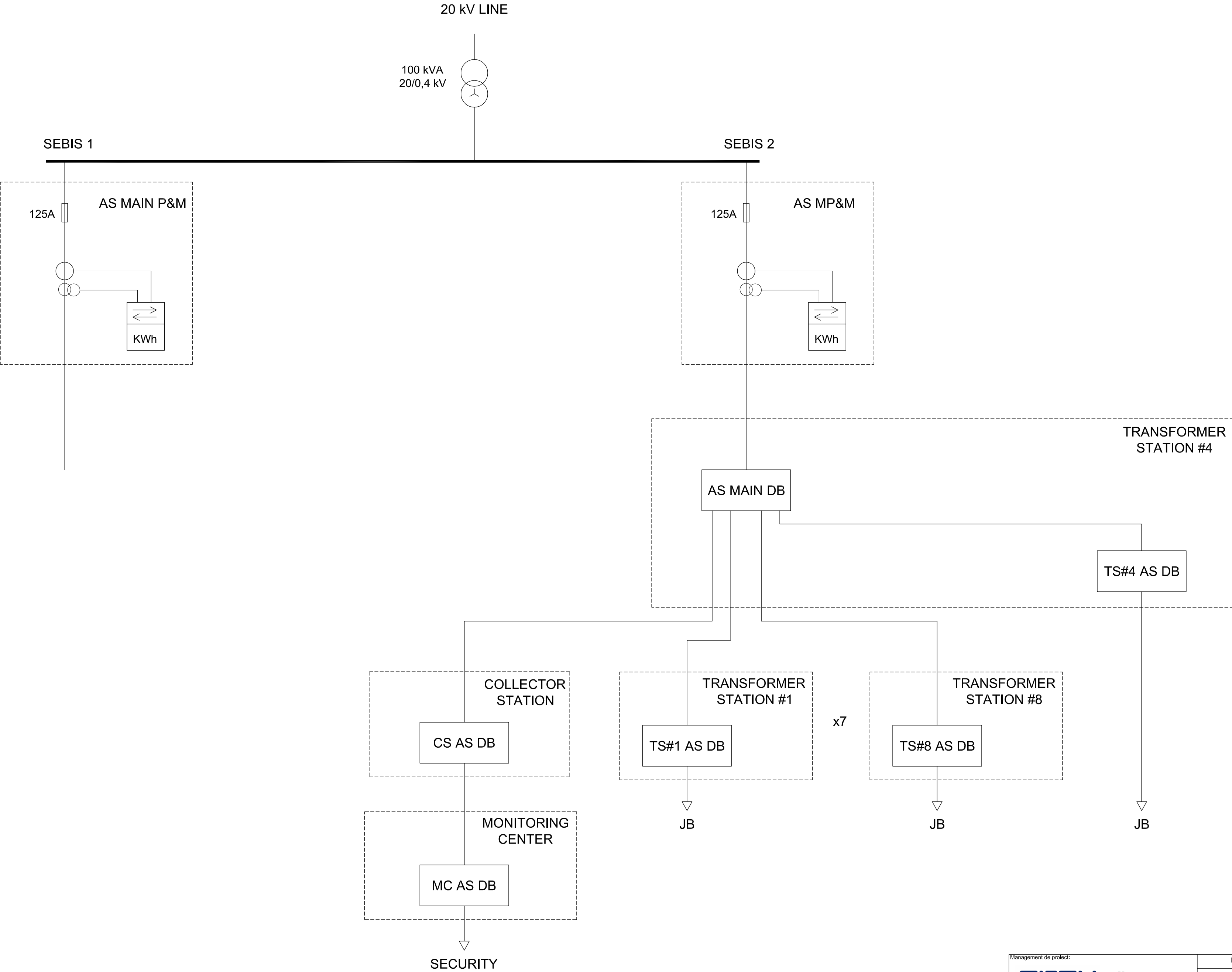





| | | | |
|---|--|---|--|
| Management de proiect: | | REFERAT DE VERIFICARE NR./DATA | |
| | | | |
| Proiectant: | | Beneficiar: | |
| S.C. Energoval Group S.R.L. Localitatea Iasi, Str. Muzeei, Nr. 2, Bl. 1, Corp. A. Nr. Reg. Com. 3825972/009 CUI: RO2269342, SII 035414238 www.energoval.ro | | GAMA & DELTA ENERGO S.R.L. Județul Iasi Localitatea Iasi Str. C. P. Gheorghe Ionescu, nr. 50 AP. 2A 3804075/2011 CUI: RO2008477 | |
| Sef proiect: | | Data: | |
| Ing. Jozsef Bereghy | | Sept 2012 | |
| Proiectant: | | Scara: | |
| Ing. Dragos Bughiu | | 1:4.00 | |
| Desenat: | | Ing. Tiberiu Iut | |
| Denumire proiect: | | FAZA: | |
| TERASA SCALA DE PRODUCERE A ENERGIEI ELECTRICE SI/SAI | | DIAC | |
| Titlu planșă: | | Planşa Nr. | |
| JBI - LOCALITATE CABLURILOR SI SECTIUNE - TS7 | | 135 | |

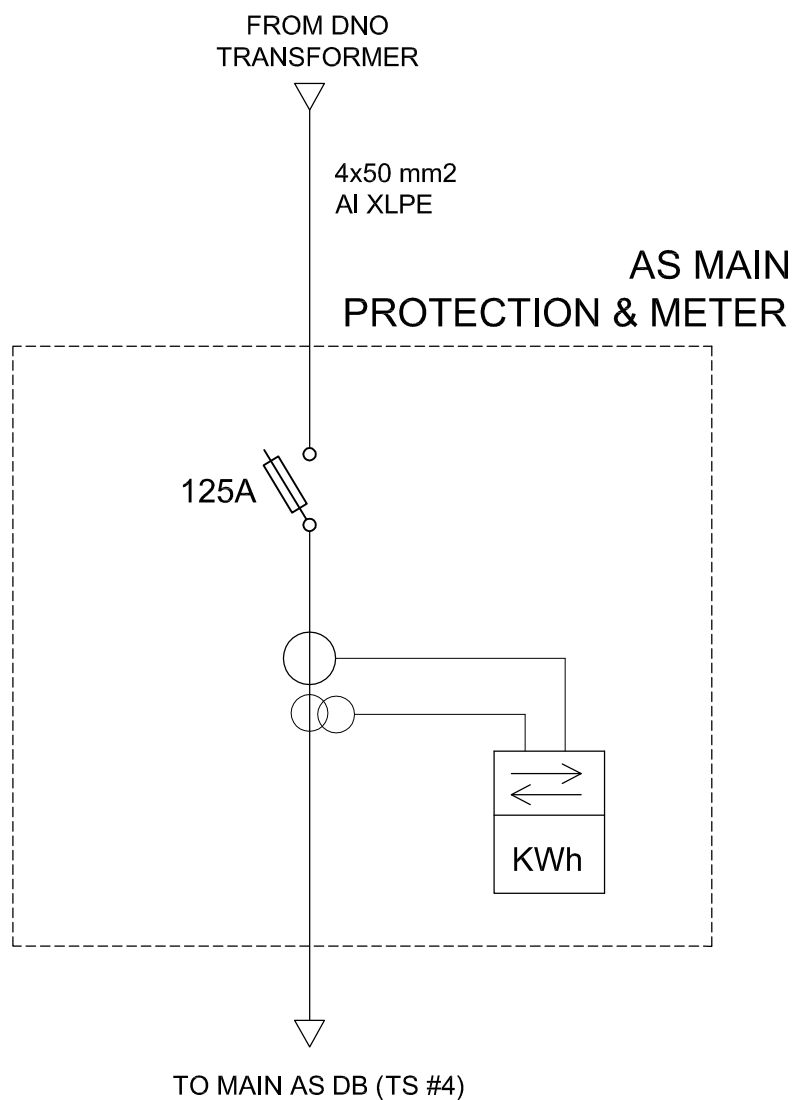
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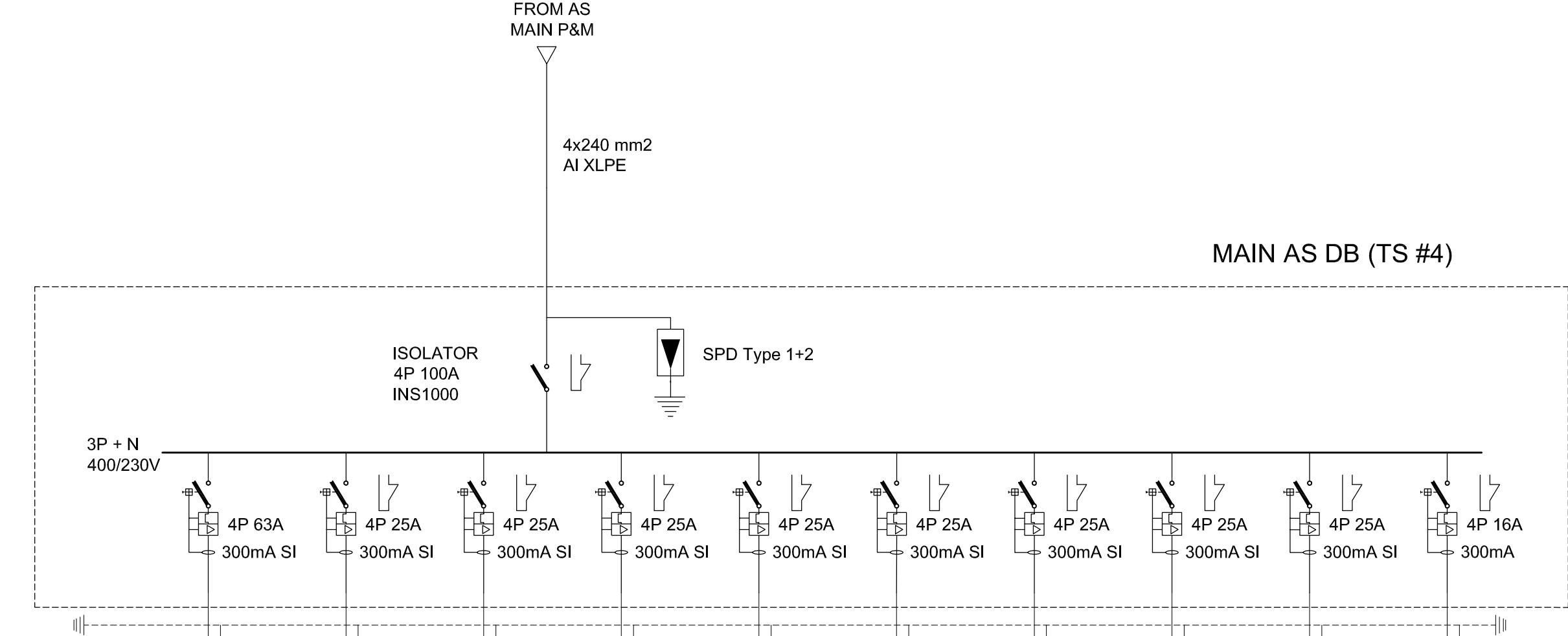
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| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| GIPEN ibener | | | | | |
| Proiectant: S.C. Energovoltaic Group S.R.L. Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: DTAC |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: DIAG. A CASETEI DE LEGATURA DE NIVEL 2 | Plansa Nr. 14 |
| Desenat: | Ing.Traian Ihut | | - | | |






| | | | | | |
|--|--------------------|------------|-----------|---|------------------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltai Group S.R.L., Localitatea Arad, Str. Misiunii, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. 302/997/2009 CUI: RO25959382, Tel 05414230 www.energiovoltai.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. Județul Arad Localitatea Arad Str. Cpt. Grigore Ighat, nr.50 AP. 2a. 302/1075/2011 CUI: RO29892657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | Ing.Dragos Baghici | | | Titlul planșei | Plansa Nr. |
| Desenat: | Ing.Trăian Iltut | | - | AUXILIARE - SCHEMA GENERALA | 15A |

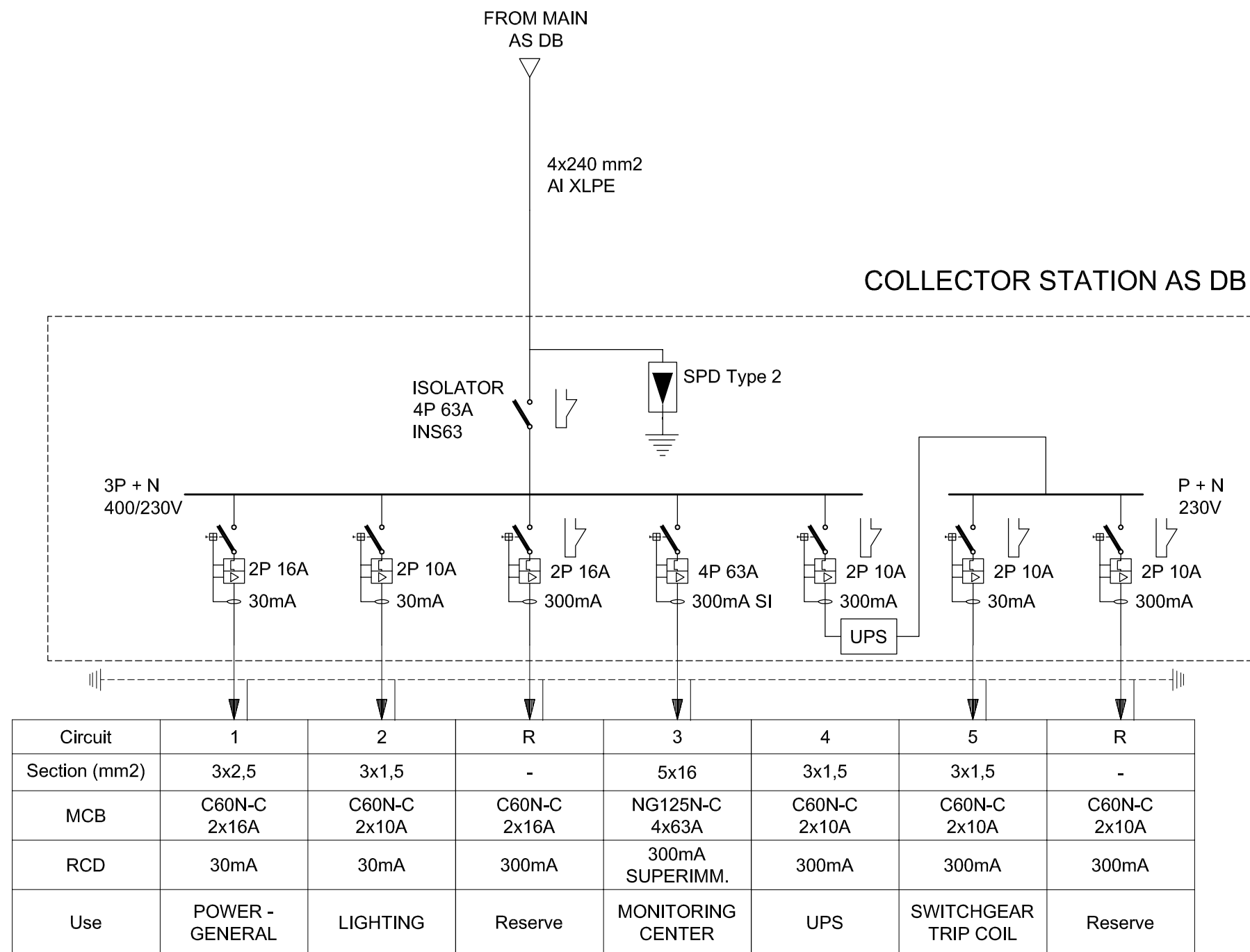



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| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltaic Group S.R.L. Localitatea Arad, Str. Metianu, Nr. 2, Et. 1, Ap. 3, Corp A, Nr. Reg. Com. 302/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: AUXILIARE - MASURI SI | Plansa Nr. |
| Desenat: | Ing.Traian Ihut | | - | PROTECTII PRINCIPALE | 15B |

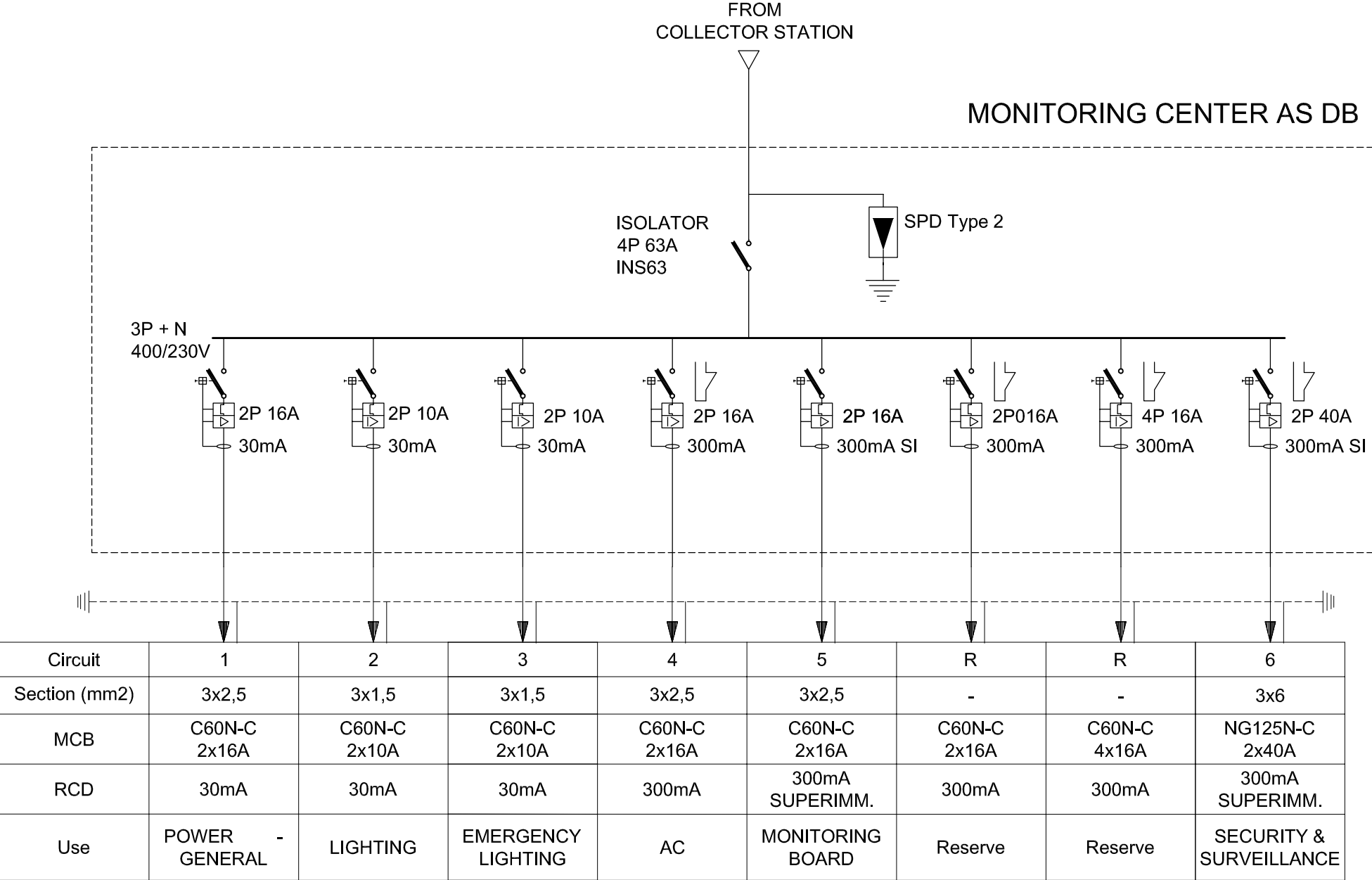





| | | | | | | | | | | |
|---------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
| Circuit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | R |
| Section (mm2) | 4x240 | 4x25 | 4x25 | 4x25 | 4x25 | 4x25 | 4x25 | 4x25 | 4x25 | - |
| MCB | NG125N-C 4x63A | NG125N-C 4x25A | NG125N-C 4x25A | NG125N-C 4x25A | NG125N-C 4x25A | NG125N-C 4x25A | NG125N-C 4x25A | NG125N-C 4x25A | NG125N-C 4x25A | C60N-C 4x16A |
| RCD | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA SUPERIMM. | 300mA |
| Use | COLLECTOR STATION | TRANS. STAT. #1 | TRANS. STAT. #2 | TRANS. STAT. #3 | TRANS. STAT. #4 | TRANS. STAT. #5 | TRANS. STAT. #6 | TRANS. STAT. #7 | TRANS. STAT. #8 | Reserve |

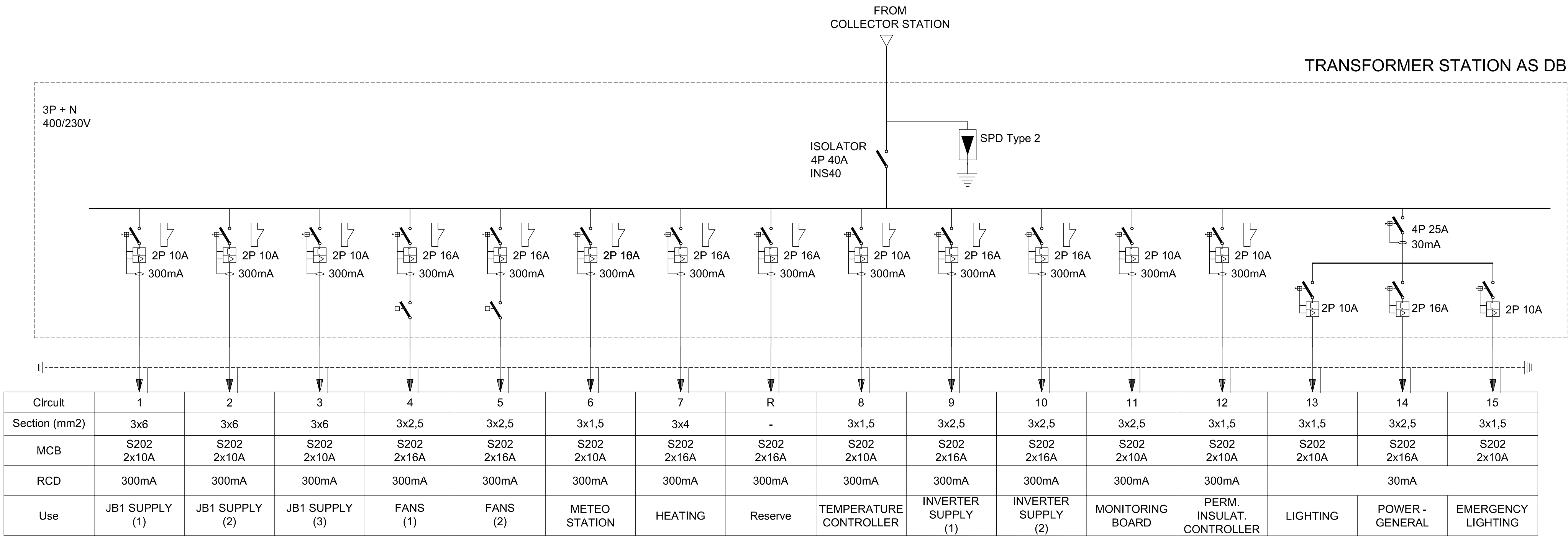
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| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltaj Group S.R.L., Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energiovoltaj.ro | | | | Beneficiar: | Proiect nr. |
| | | | | GAMA & DELTA ENERGY S.R.L., Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a, J02/1075/2011 CUI: RO29092657 | 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: | |
| Desenat: | Ing.Traian Ihut | | - | AUXILIARE - TABELA PRINCIPALA DE DISTRIBUTIE | |
| | | | | | Plansa Nr. 15C |





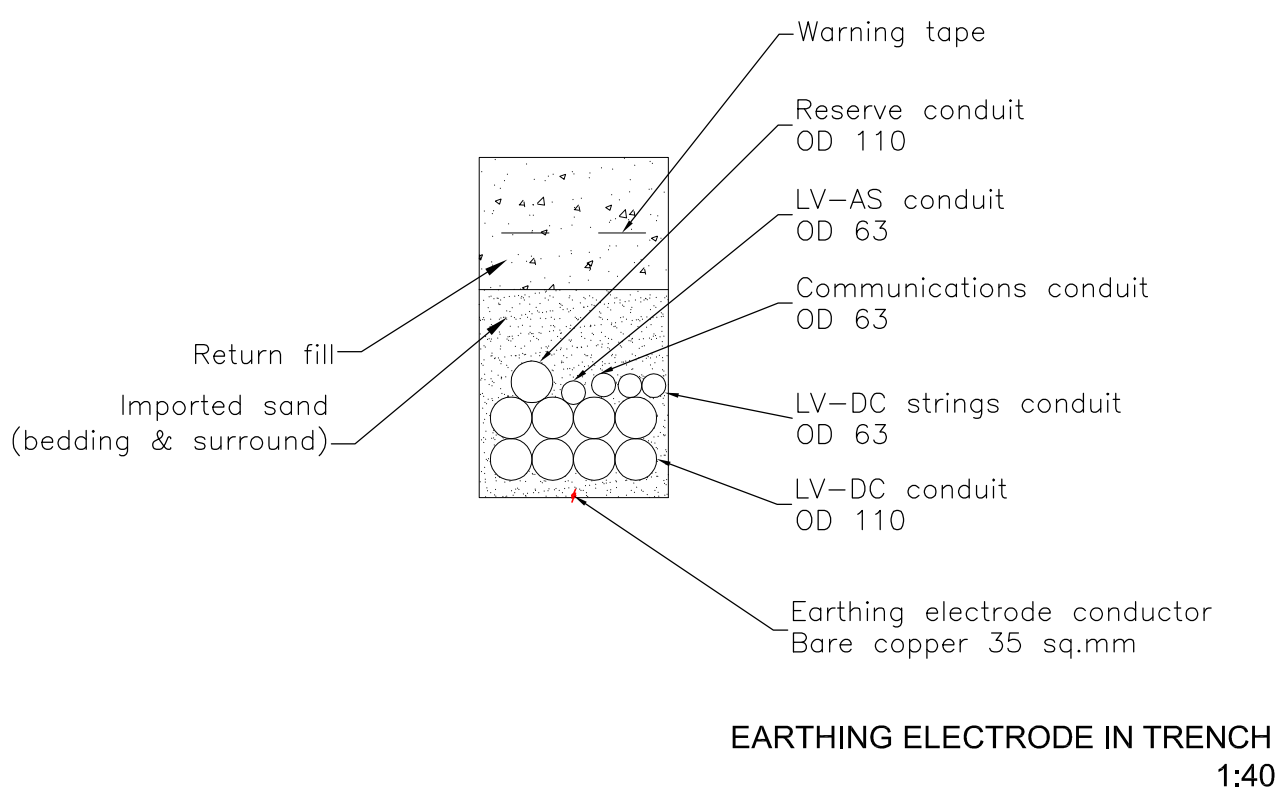
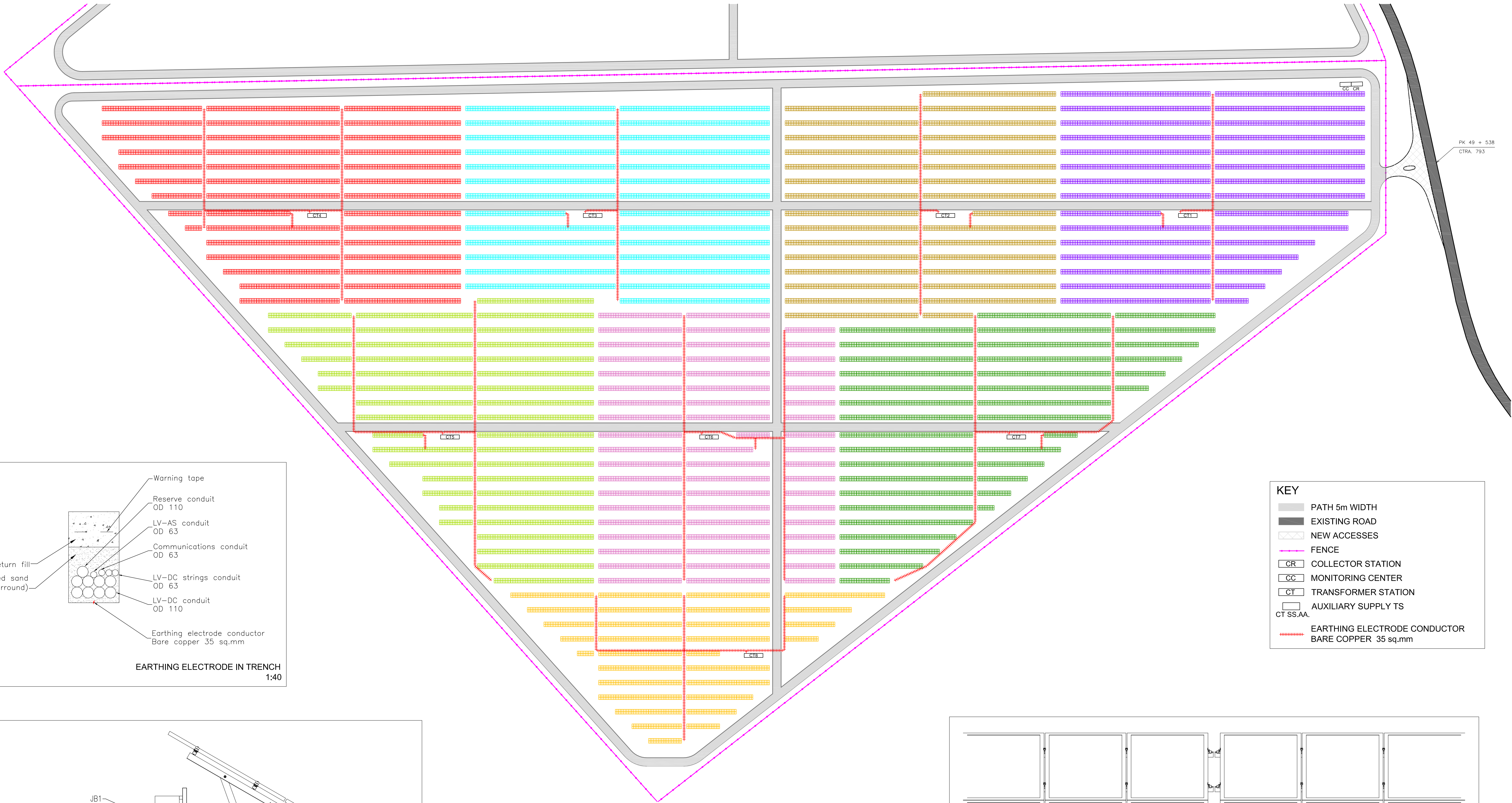
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| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|  | | | | | |
| Proiectant: S.C. Energovoltajic Group S.R.L. Localitatea Arad, Str. Mezinu, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: | Proiect nr. |
| | | | | GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: | Plansa Nr. |
| Desenat: | Ing.Traian Ihut | | - | AUXILIARE - TABELA DE DISTRIBUTIE CS | I5D |



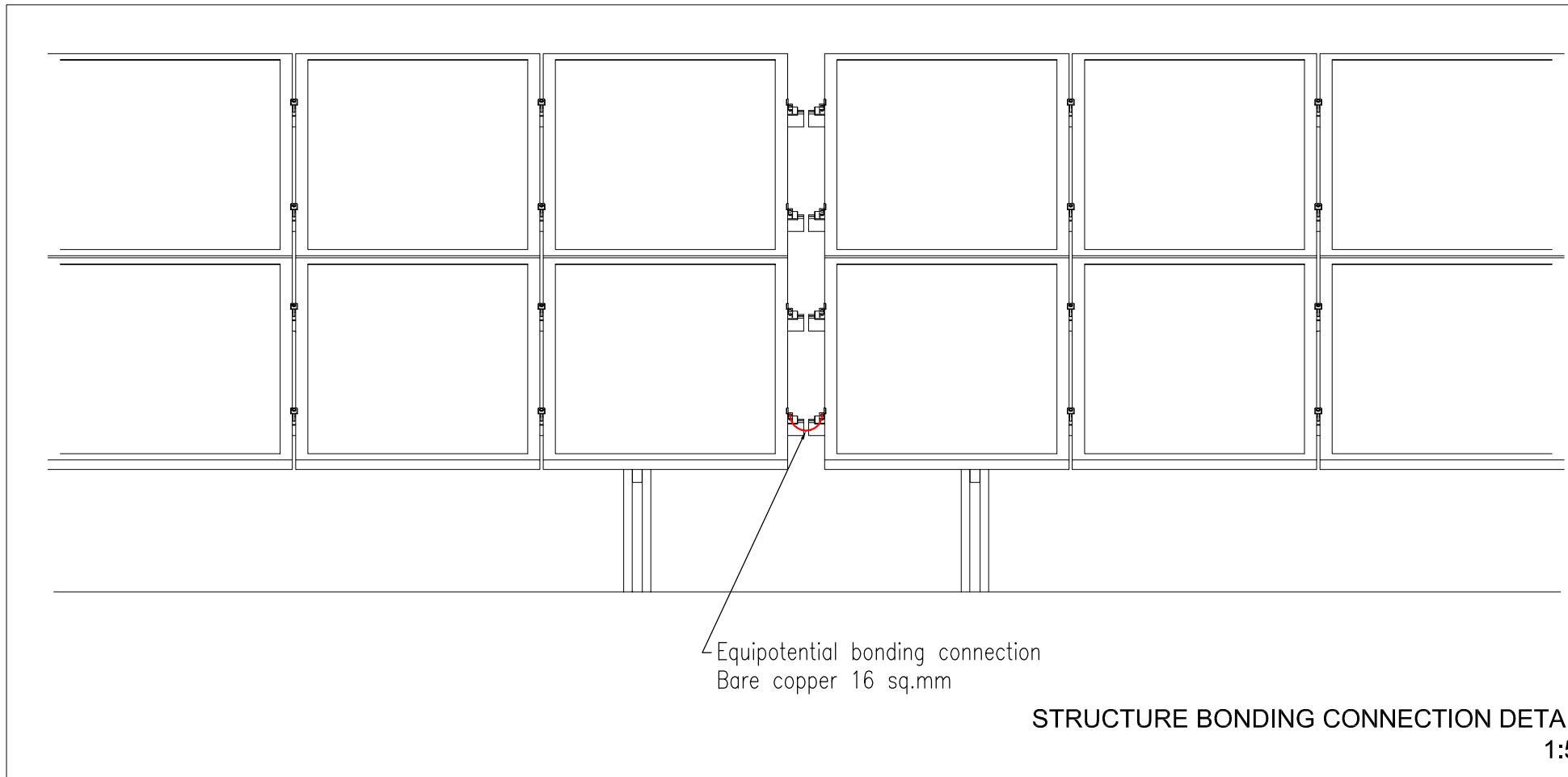
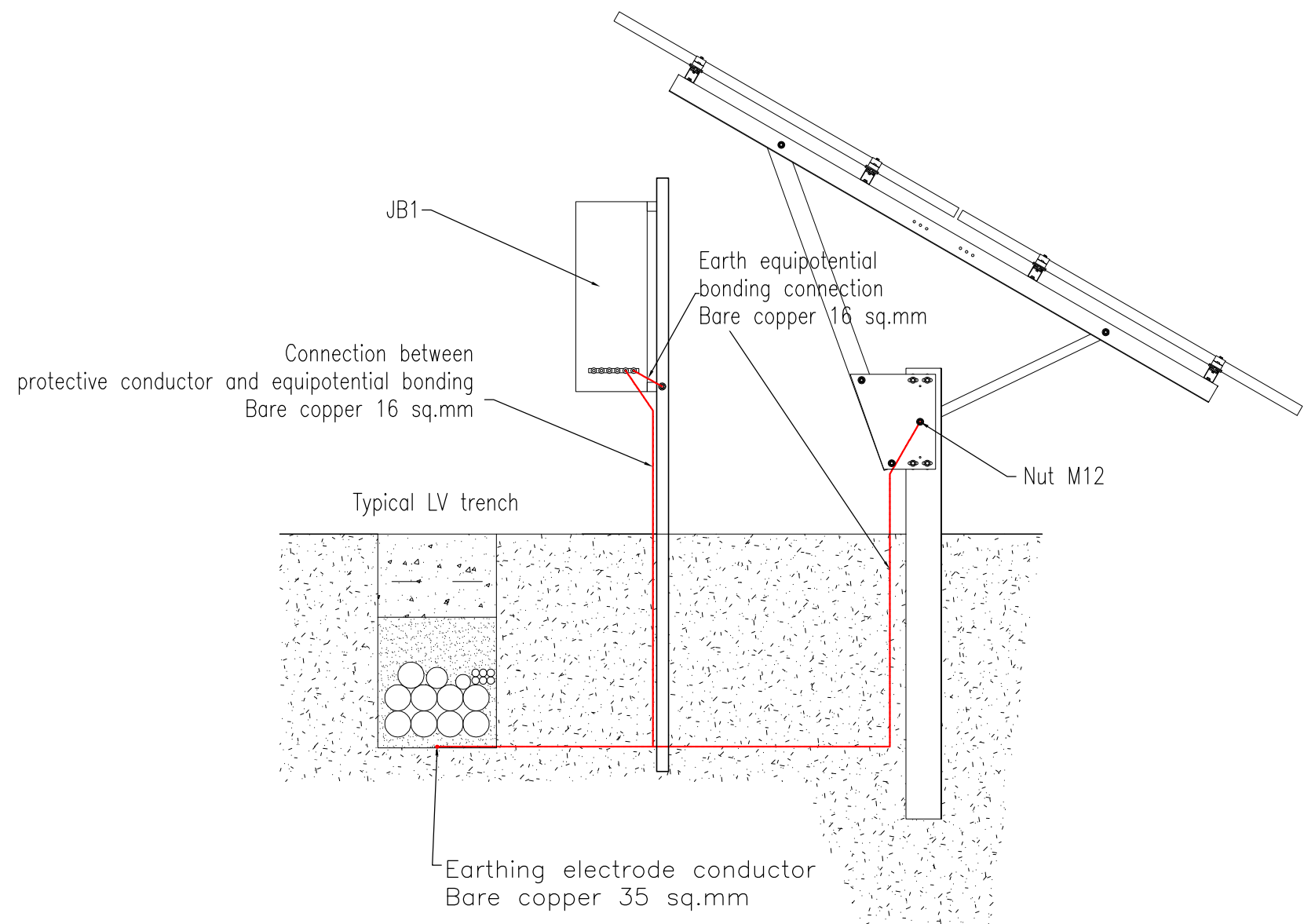
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| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div></div><div></div></div> | | | | | |
| Proiectant: <div><div></div><div>S.C. Energovoltaj Group S.R.L. Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro</div></div> | | | | Beneficiar: <div><div>GAMA & DELTA ENERGY S.R.L.</div><div>Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657</div></div> | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: AUXILIARE - TABELA DE DISTRIBUTIE MC | |
| Desenat: | Ing.Traian Ihut | | - | | |
| | | | | | Plansa Nr. 15E |



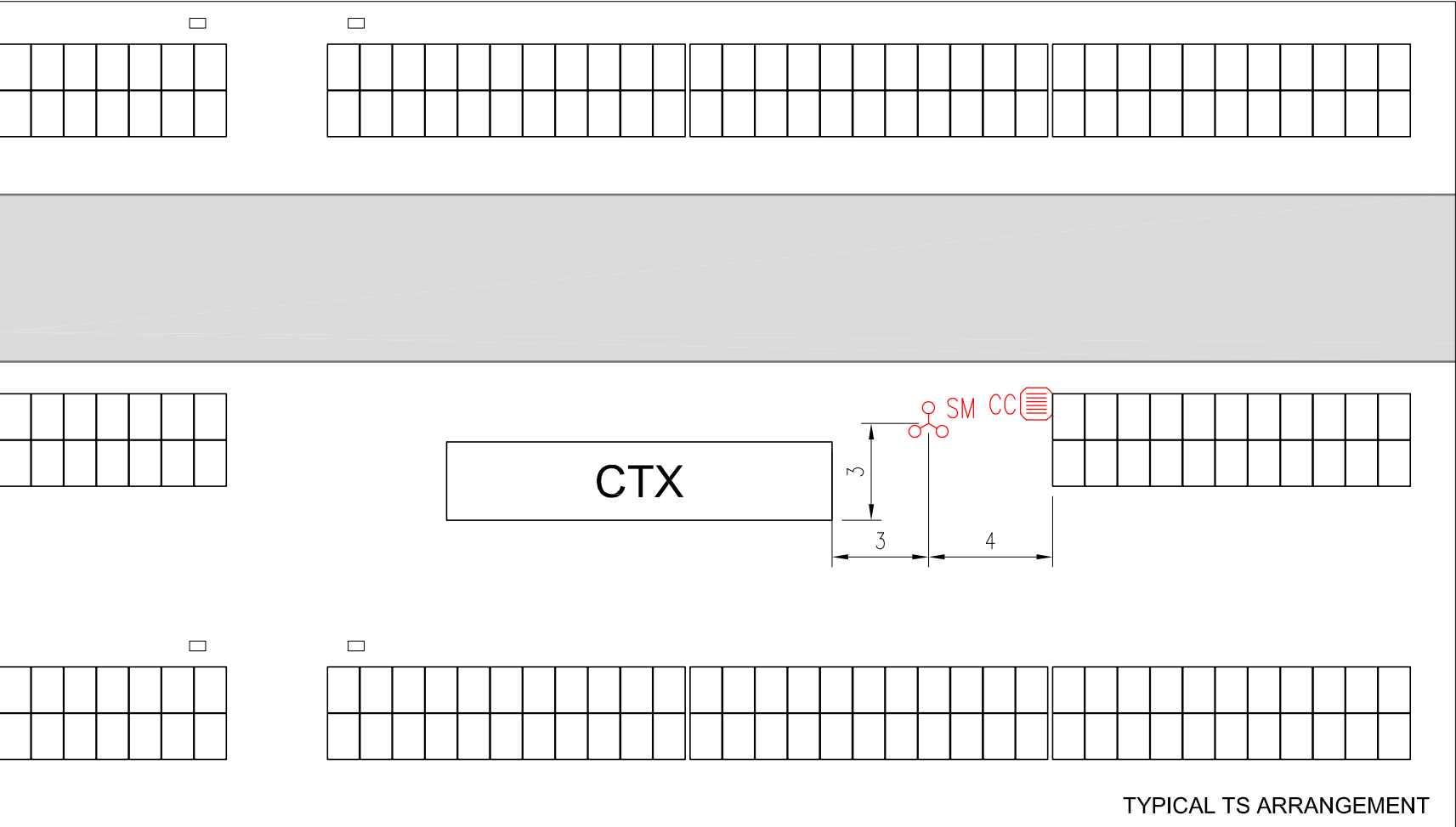
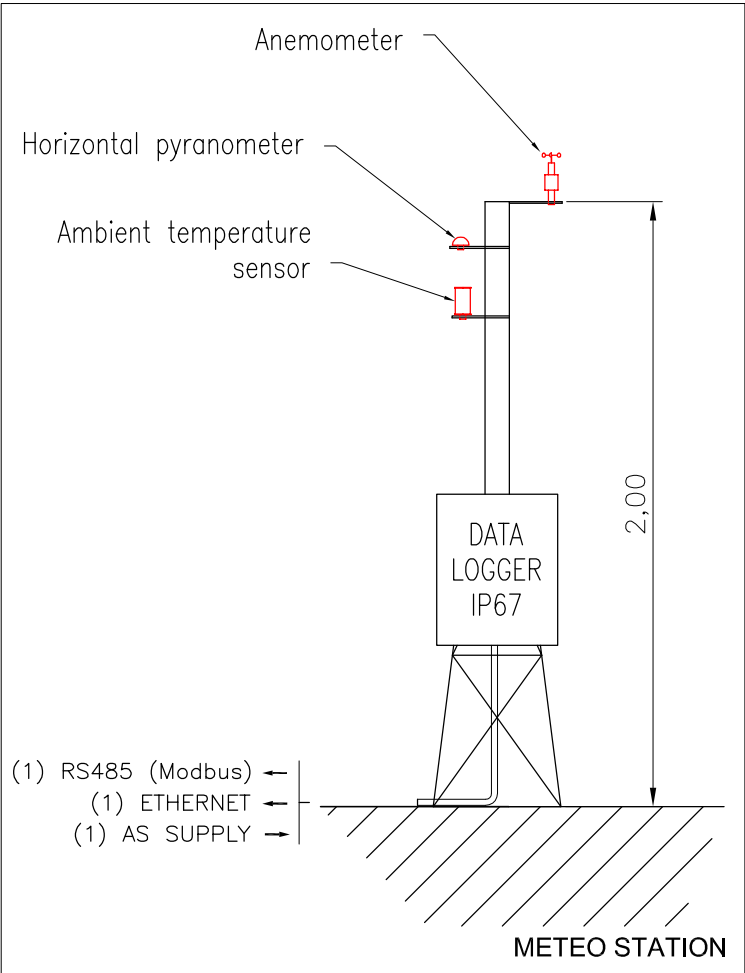
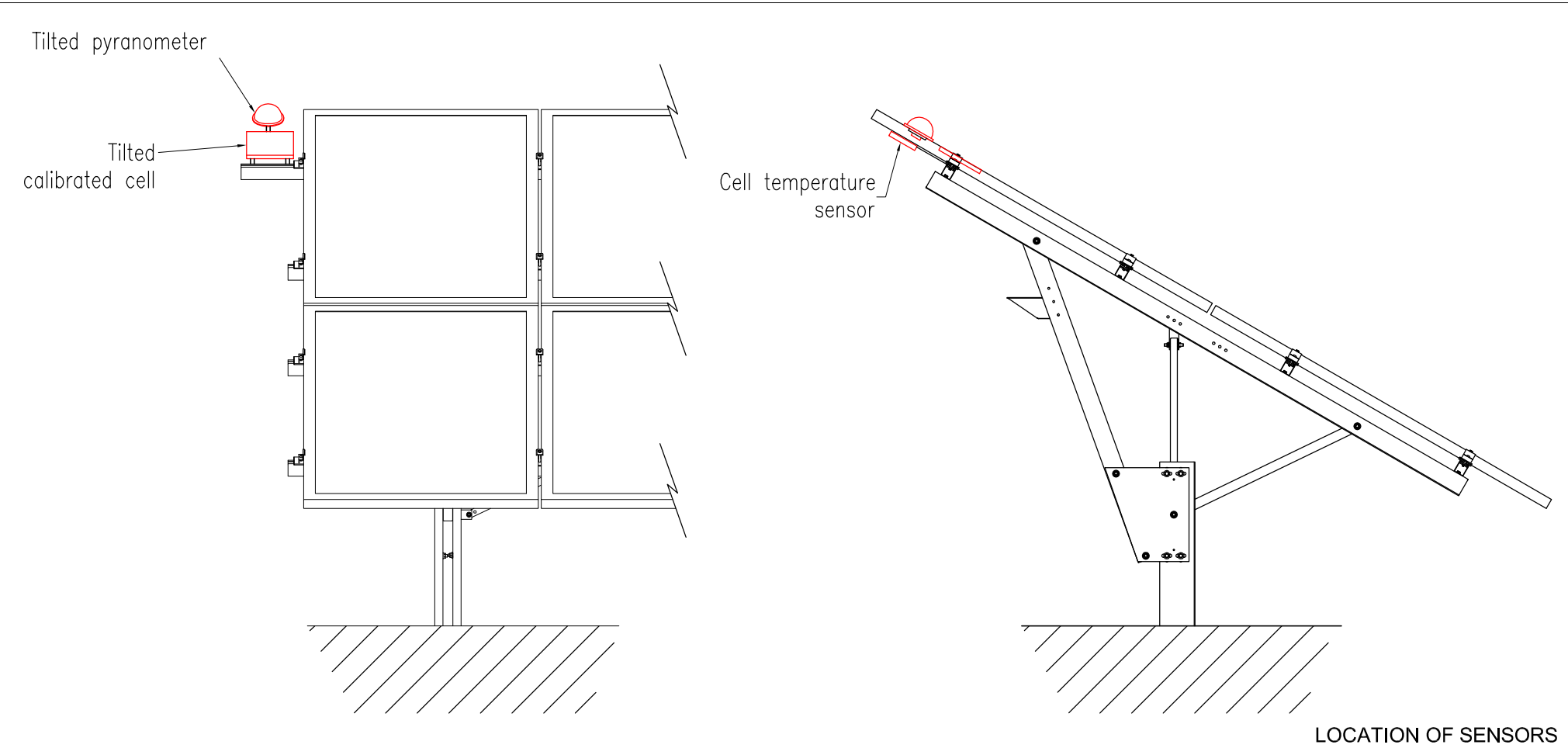
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| Proiectant:  S.C. Energovolt Group S.R.L., Localitatea Arad, Str. Misiuna, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. RO239770069 CUI: RO23959382, Tel 05414230 www.energovoltaic.ro | | | | Beneficiar: GAMA & DELTA ENERGY S.R.L. , Județul Arad Localitatea Arad Str. Cpt. Grigore Iugău, nr.50 AP. 2a, 3021075/2011 CUI: RO29992657 | |
| SPECIFICATIE: NUME Semnatura: Data: | | | | Denumire proiect: FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERB2 | |
| Sef proiect: Ing. Joan Berengué | | | | FAZA: DTAC | |
| Proiectat: Ing.Dragos Baghiu | | | | Titlul planșei: AUXILIARE - TABELA DE DISTRIBUTIE TS | |
| Desenat: Ing.Trăian Iltut | | | | Plansa Nr. 15F | |



- KEY**
- PATH 5m WIDTH
 - EXISTING ROAD
 - NEW ACCESSES
 - FENCE
 - CR COLLECTOR STATION
 - CC MONITORING CENTER
 - CT TRANSFORMER STATION
 - AUXILIARY SUPPLY TS
 - CT SS.AA.
 - EARTHING ELECTRODE CONDUCTOR BARE COPPER 35 sq.mm

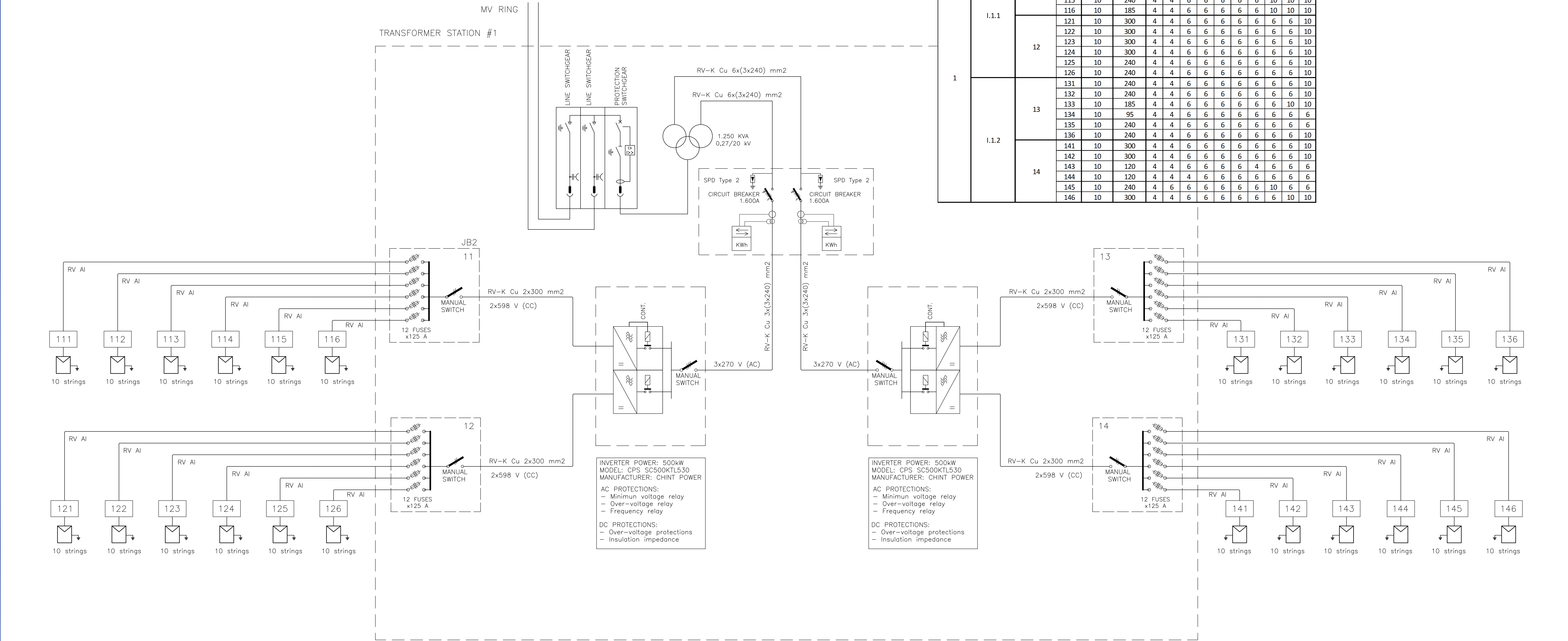


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|------------------------|--|--------------------------------|----------------------------|
| Management de proiect: | | REFERAT DE VERIFICARE NR./DATA | |
| ibener | | | |
| Proiectant: | S.C. Energetica Grup S.R.L. | Beneficiar: | GAMA & DELTA ENERGY S.R.L. |
| Locul de montaj: | Locul de montaj: Nr. 2, Et. 1, Sp. 3, Corp. A. | Județul: | Județul Arad |
| Proiect nr.: | 11/2010 | Proiect nr.: | 11/2010 |
| Specificație: | NUME | Scara: | 1:250 |
| Sef proiect: | Ing. Ioan Berenghi | Data: | Sept 2012 |
| Proiectat: | Ing. Dragos Baghiu | Scara: | 1:250 |
| Desenat: | Ing. Tudor But | Scara: | 1:250 |
| Denumire proiect: | | FAZA: | |
| SISTEM LV PE SOL | | Planşa Nr.: | |
| | | 16 | |



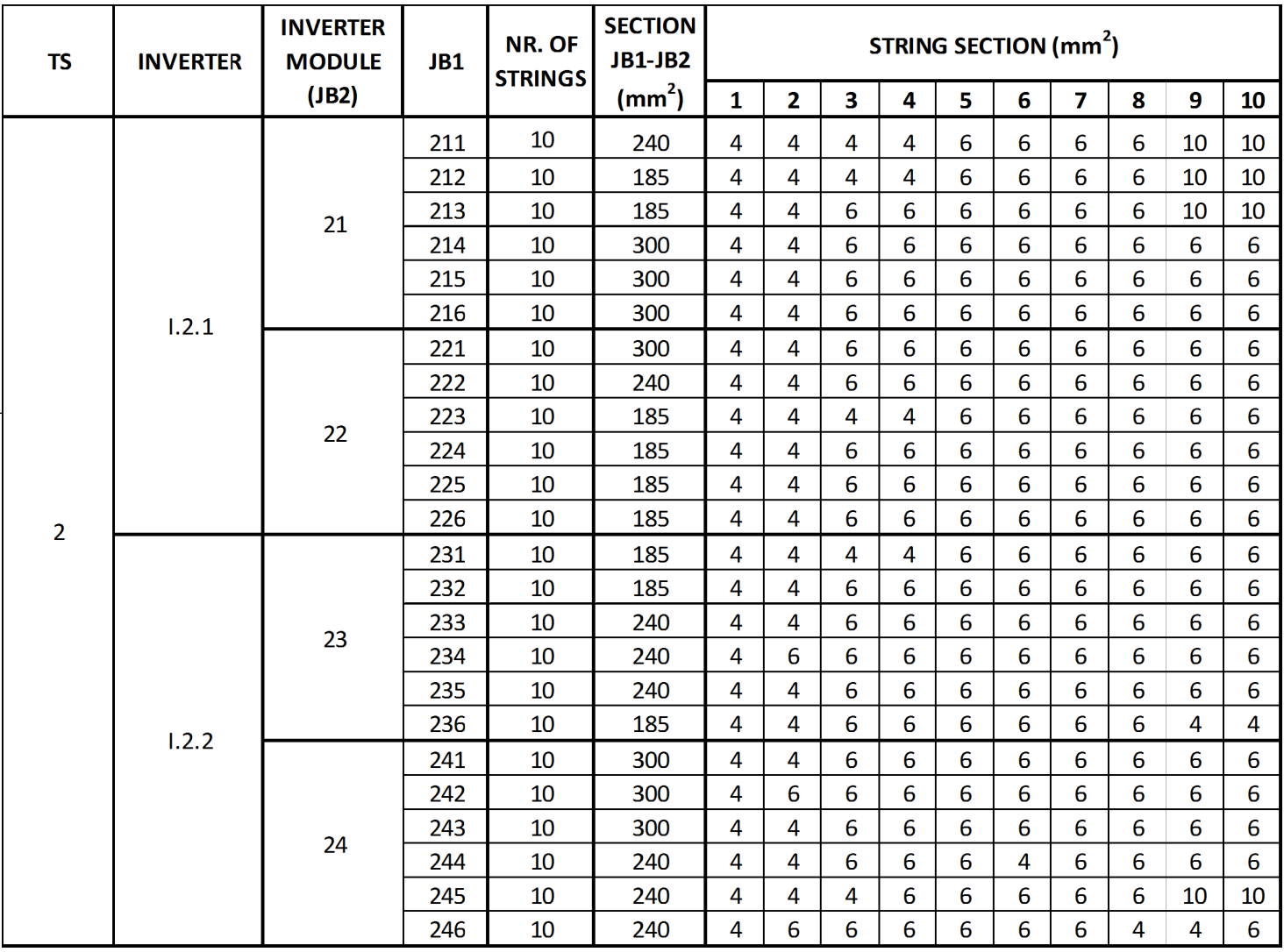
| KEY | |
|-----|-----------------|
| | METEO STATION |
| | CALIBRATED CELL |

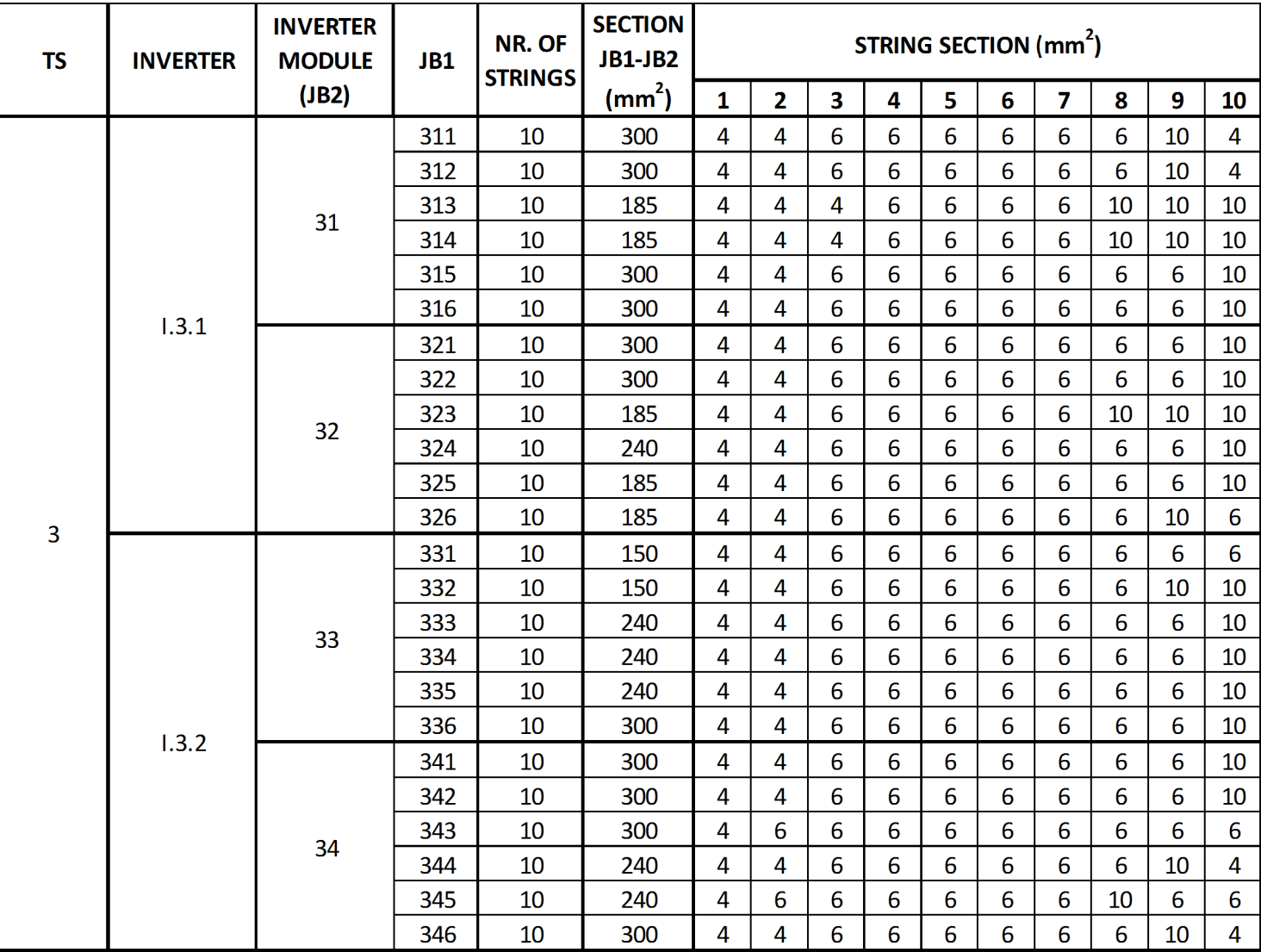
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| Management de proiect: | | | REFERAT DE VERIFICARE NR./DATA | |
| GIPEN ibener | | | | |
| Proiectant: S.C. Energovoltaic Group S.R.L. Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | Beneficiar: | Proiect nr. |
| | | | GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | 11/2010 |
| SPECIFICATIE: | | | Denumire proiect: | FAZA: |
| Sef proiect: | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | | | Titlul plansei: | Plansa Nr. |
| Desenat: | | | STATIE METEO | 17 |



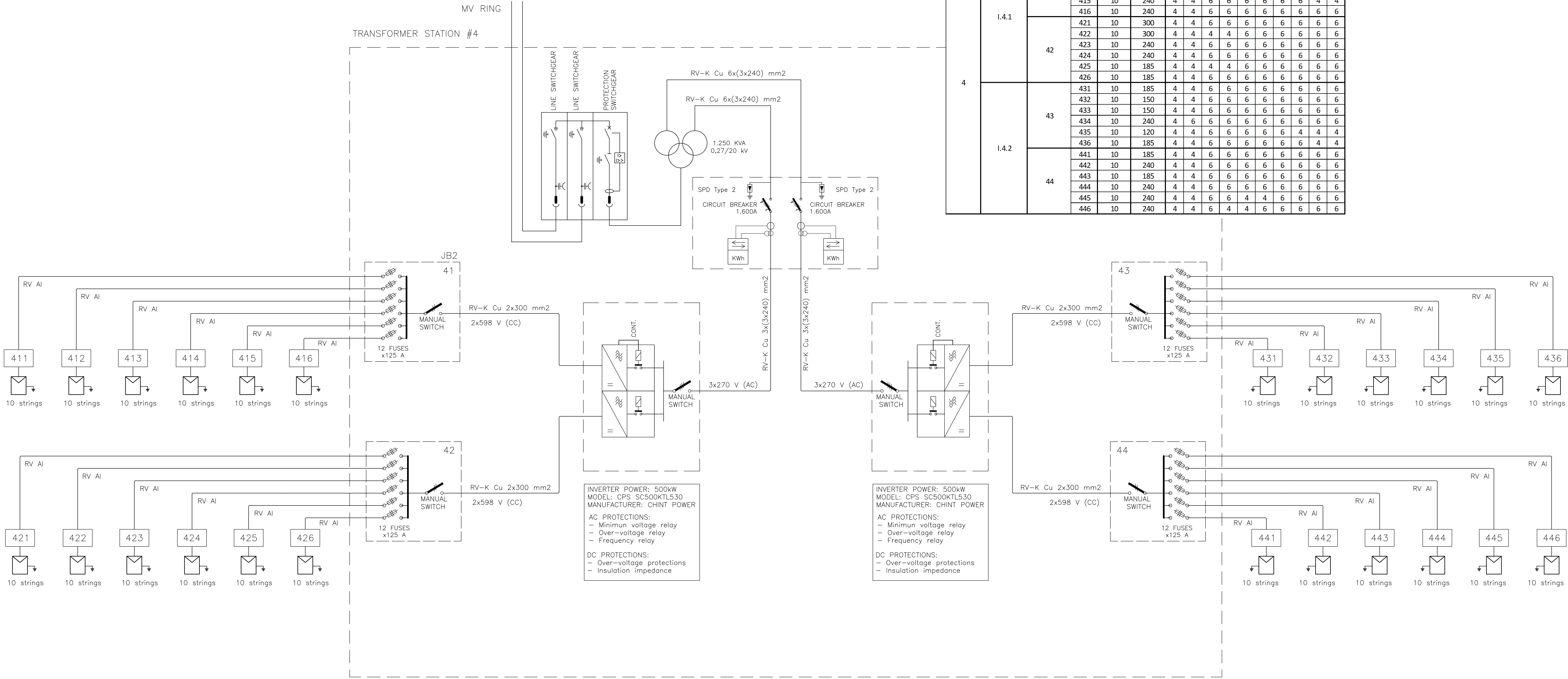
| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm²) | STRING SECTION (mm²) | | | | | | | | | |
|----|----------|-----------------------|-----|----------------|-----------------------|----------------------|---|---|---|---|---|----|----|----|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | I.1.1 | 11 | 111 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 4 |
| | | | 112 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 4 |
| | | | 113 | 10 | 300 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 4 | 4 |
| | | | 114 | 10 | 300 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 4 | 4 |
| | | | 115 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 10 |
| | | | 116 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | 10 |
| | | 12 | 121 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 122 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 123 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 124 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 125 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 126 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | I.1.2 | 13 | 131 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 132 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 133 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 134 | 10 | 95 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 135 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 136 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | 14 | 141 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 142 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 10 |
| | | | 143 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 |
| | | | 144 | 10 | 120 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 145 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 6 | 6 |
| | | | 146 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 10 | 10 |

| | | | | | |
|---|--|--|--|---|--|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| | | | | | |
| Proiectant: S.C. Energovol Group S.R.L. Localitatea: Iasi, Str. Mihail Kogalniceanu, Nr. 2, Et. 1, Ap. 3, Corp. A. No. Reg. Com. J020972009 CUI: 602555012, EI015414210 www.energovolgroup.ro | | | | Beneficiar: GAMMA & DELTA ENERGY S.R.L. Judetul: Arad Localitatea: Arad Str. C. Popescu, nr. 50 Ap. 2a, RO0170311 CUI: RO00000000 | |
| Sef proiect: Ing. Ioan Berengab | | | | Proiect nr. 11/2010 | |
| Proiectat: Ing. Dragos Baghda | | | | Denumire proiect: FERMA SOLARA DE PRODUCERE A ENERGII ELECTRICE SERIE: | |
| Desenat: Ing. Tudor But | | | | Titol planset: DIAGRAMA LV 0 SINGURA LINIE TSI | |
| | | | | Planşa Nr. 18A | |

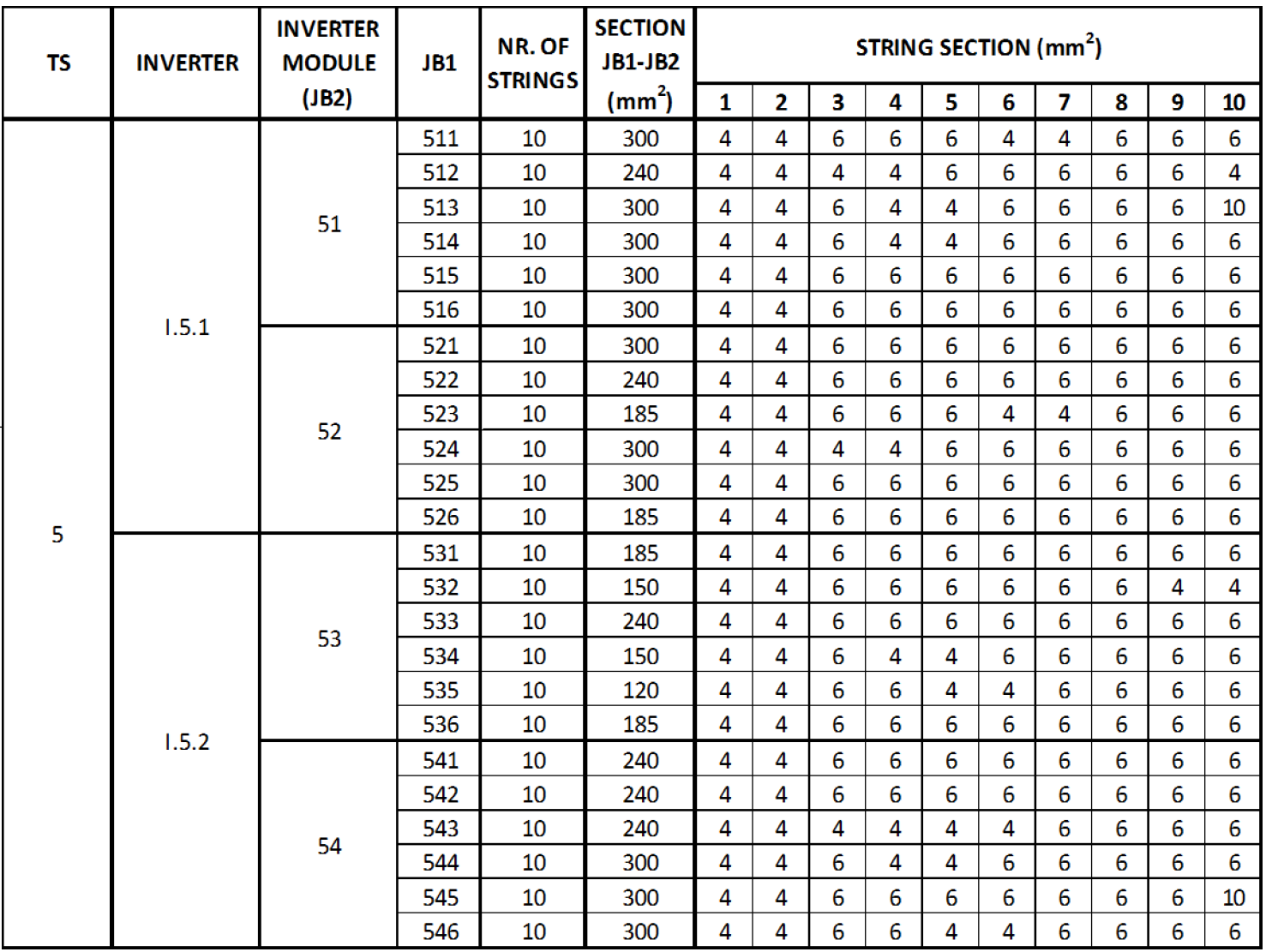


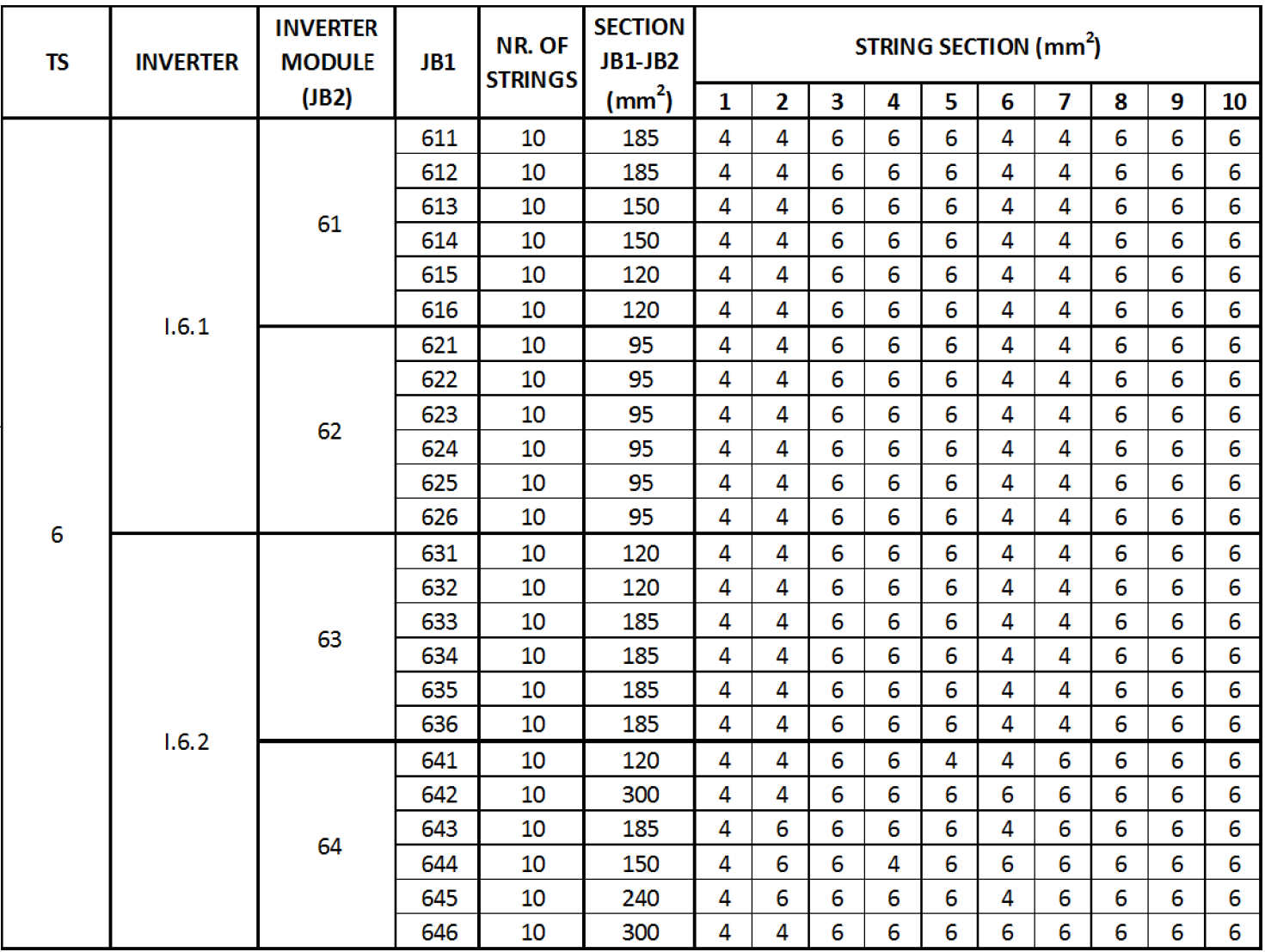


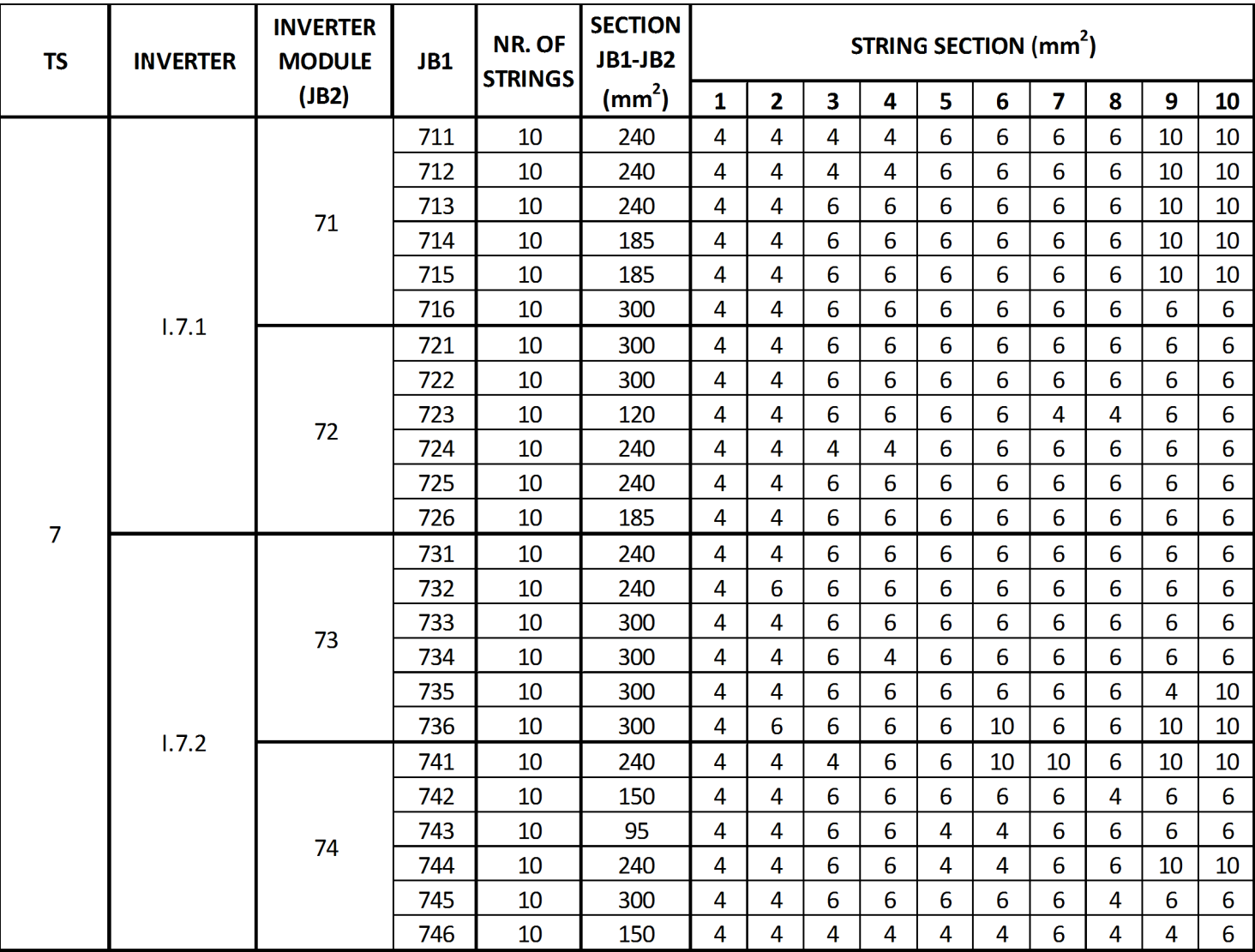
| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm ²) | STRING SECTION (mm ²) | | | | | | | | | |
|----|----------|-----------------------------|-----|-------------------|--|-----------------------------------|---|---|---|---|---|---|---|----|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 4 | I.4.1 | 41 | 411 | 10 | 300 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 412 | 10 | 300 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 10 | 10 |
| | | | 413 | 10 | 240 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 414 | 10 | 150 | 4 | 4 | 4 | 6 | 6 | 4 | 4 | 4 | 6 | 6 |
| | | | 415 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | | 416 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 42 | 421 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 422 | 10 | 300 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 423 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 424 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | I.4.2 | 43 | 425 | 10 | 185 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 426 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 431 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 432 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 433 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 434 | 10 | 240 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 44 | 435 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | | 436 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 |
| | | | 441 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 442 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 443 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 444 | 10 | 240 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | | 445 | 10 | 240 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 446 | 10 | 240 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 6 | 6 | 6 |

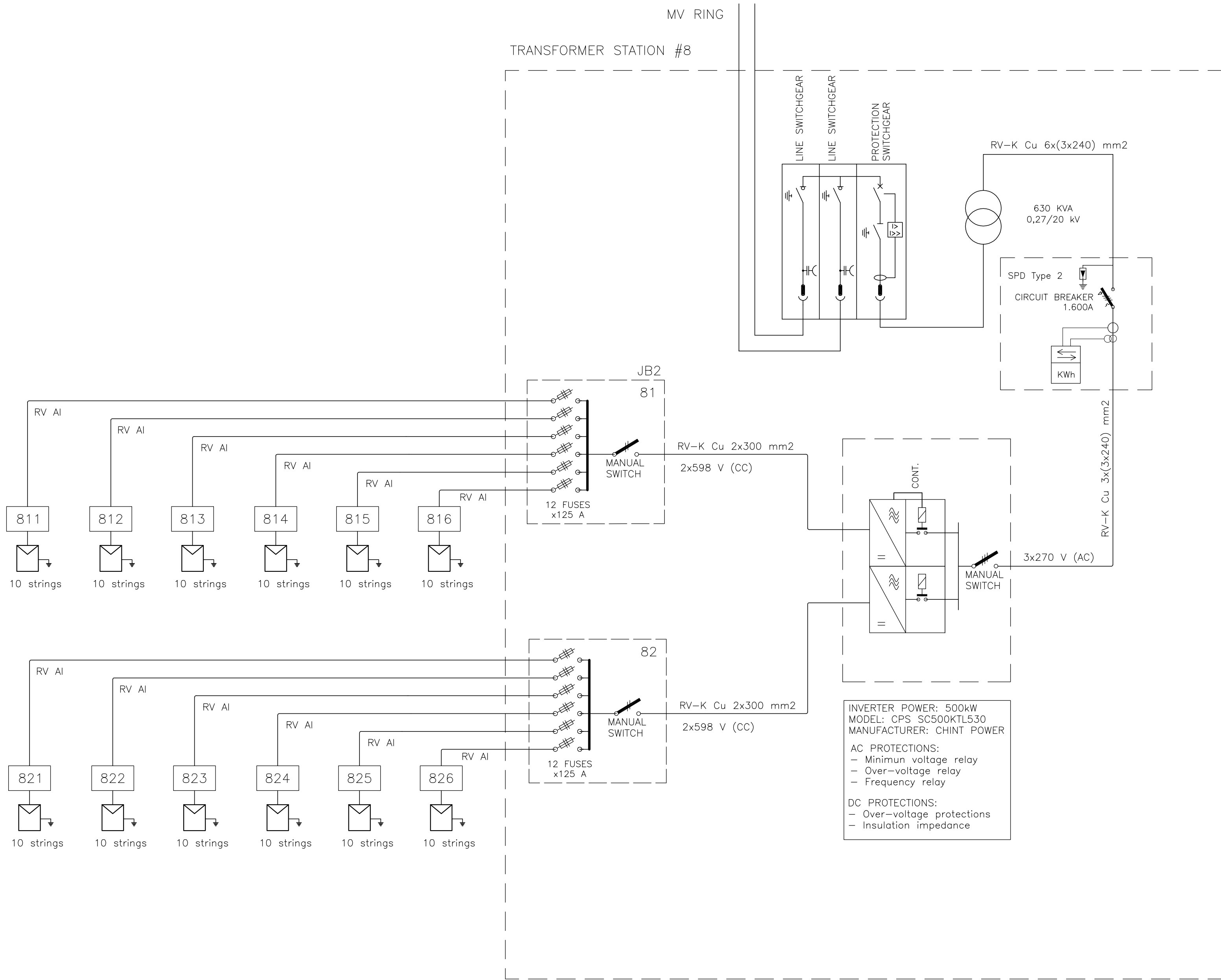


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|---|--|--|--|--|--|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR. DATA | |
| GPEN ibener | | | | | |
| Proiectant: S.C. EnergoVolta Group S.R.L. Localitatea: Slatina, Str. Mihail, Nr. 2, Et. 1, Ap. 3, Corp. A. No. Reg. Com. 102397/2009 CUI: 61025550/02, J10105414/20 www.energovolta.ro | | | | Beneficiar: GAMMA DELTA ENERGY S.R.L. Localitate: Slatina, Str. Mihail, Nr. 2, Et. 1, Ap. 3, Corp. A. No. Reg. Com. 102397/2009 CUI: 61025550/02, J10105414/20 | |
| SPECIFICATIE: Nume: Nume | | | | Data: Data | |
| Sef proiect: Ing. Ioan Berenghi | | | | Data: Sept 2012 | |
| Proiectant: Ing. Dragos Bagiu | | | | Data: Sept 2012 | |
| Desenat: Ing. Tudor But | | | | Data: Sept 2012 | |
| | | | | Denumire proiect: FERMA SOLARA DE PRODUCERE A ENERGII ELECTRICE SERIE: | |
| | | | | Titlul planșet: DIAGRAMA LV 0 SINGURA LINEA TS4 | |
| | | | | Faza: DTAC | |
| | | | | Planșa Nr.: 180 | |



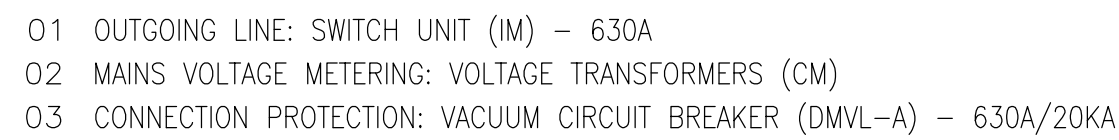




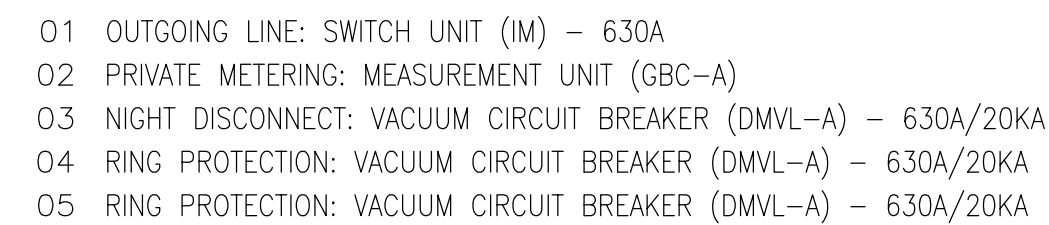


| TS | INVERTER | INVERTER MODULE (JB2) | JB1 | NR. OF STRINGS | SECTION JB1-JB2 (mm ²) | STRING SECTION (mm ²) | | | | | | | | | |
|----|----------|-----------------------------|-----|-------------------|--|-----------------------------------|---|---|---|---|---|---|---|---|----|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 8 | I.8.1 | 81 | 811 | 10 | 300 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 812 | 10 | 240 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 813 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 814 | 10 | 185 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 815 | 10 | 120 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 816 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | 82 | 821 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 6 |
| | | | 822 | 10 | 150 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 | 4 |
| | | | 823 | 10 | 150 | 4 | 4 | 6 | 6 | 4 | 4 | 4 | 6 | 6 | 6 |
| | | | 824 | 10 | 120 | 4 | 4 | 6 | 6 | 4 | 4 | 4 | 6 | 6 | 6 |
| | | | 825 | 10 | 150 | 4 | 4 | 6 | 6 | 4 | 4 | 6 | 6 | 6 | 6 |
| | | | 826 | 10 | 120 | 4 | 4 | 4 | 4 | 6 | 4 | 6 | 6 | 6 | 6 |

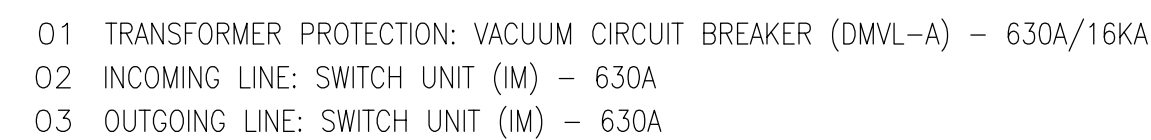
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| Management de proiect: | | REFERAT DE VERIFICARE NR./DATA | |
| GPEN ibener | | | |
| Proiectant: | S.C. EnergoVital Group S.R.L. Localitatea Slatina, Str. Mihail Sadoveanu, Nr. 2, Et. 1, Ap. 3, Corp. A. No. Reg. Com. JO2097/2009 CLUJ: RO2550162, RO2550163 www.energovital.ro | Beneficiar: | GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Spateanu 50 Ap. 2a. RO20752011 CLUJ ROMANIA |
| Specificatie: | NUME | Schema: | Data: |
| Sef proiect: | Ing. Ioan Berenghi | | Sept 2012 |
| Proiectat: | Ing. Dragos Bagiu | | |
| Desenat: | Ing. Tudor But | | |
| Denumire proiect: | | FAZA: | |
| FIERA SOLARA DE PRODUCERE A ENERGII ELECTRICE SERIE: | | DTAC | |
| Titlul planset: | | Plansa Nr. | |
| DIAGRAMA LV 0 | | 184 | |
| SINGURA LINE TS8 | | | |



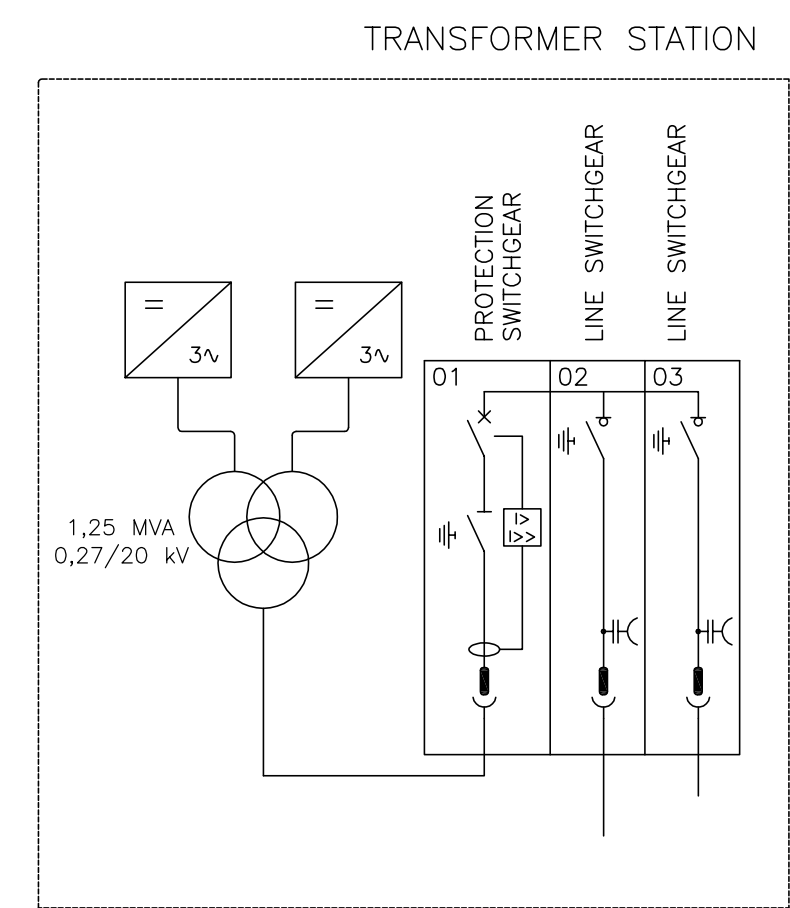
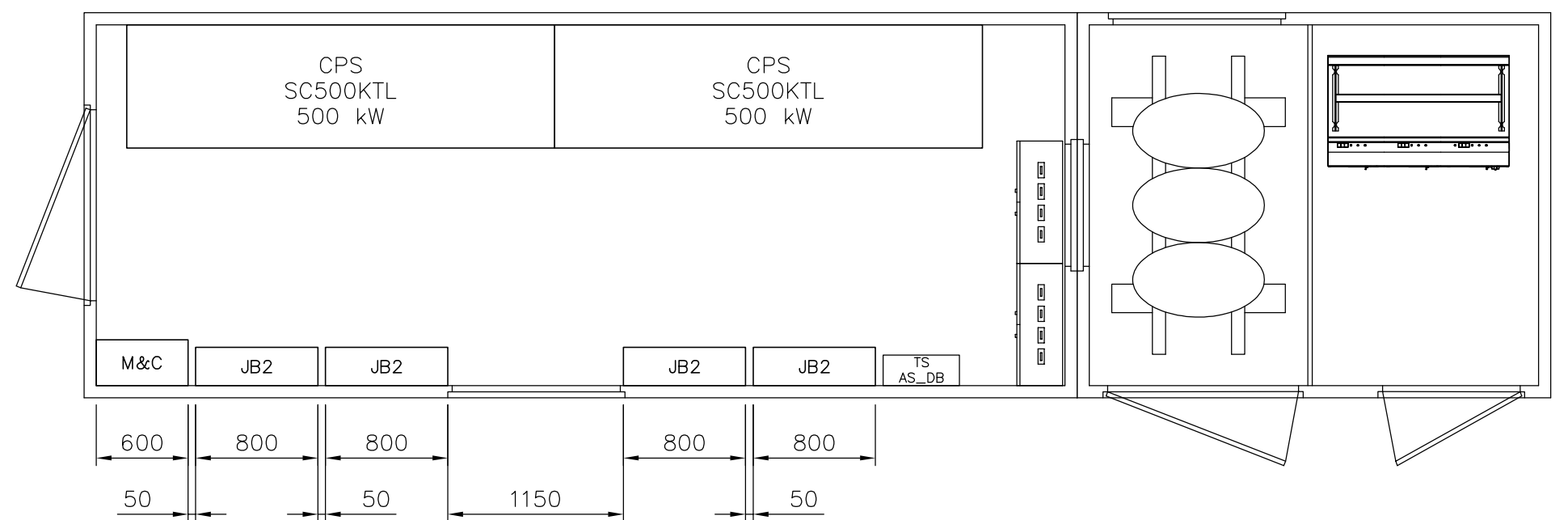
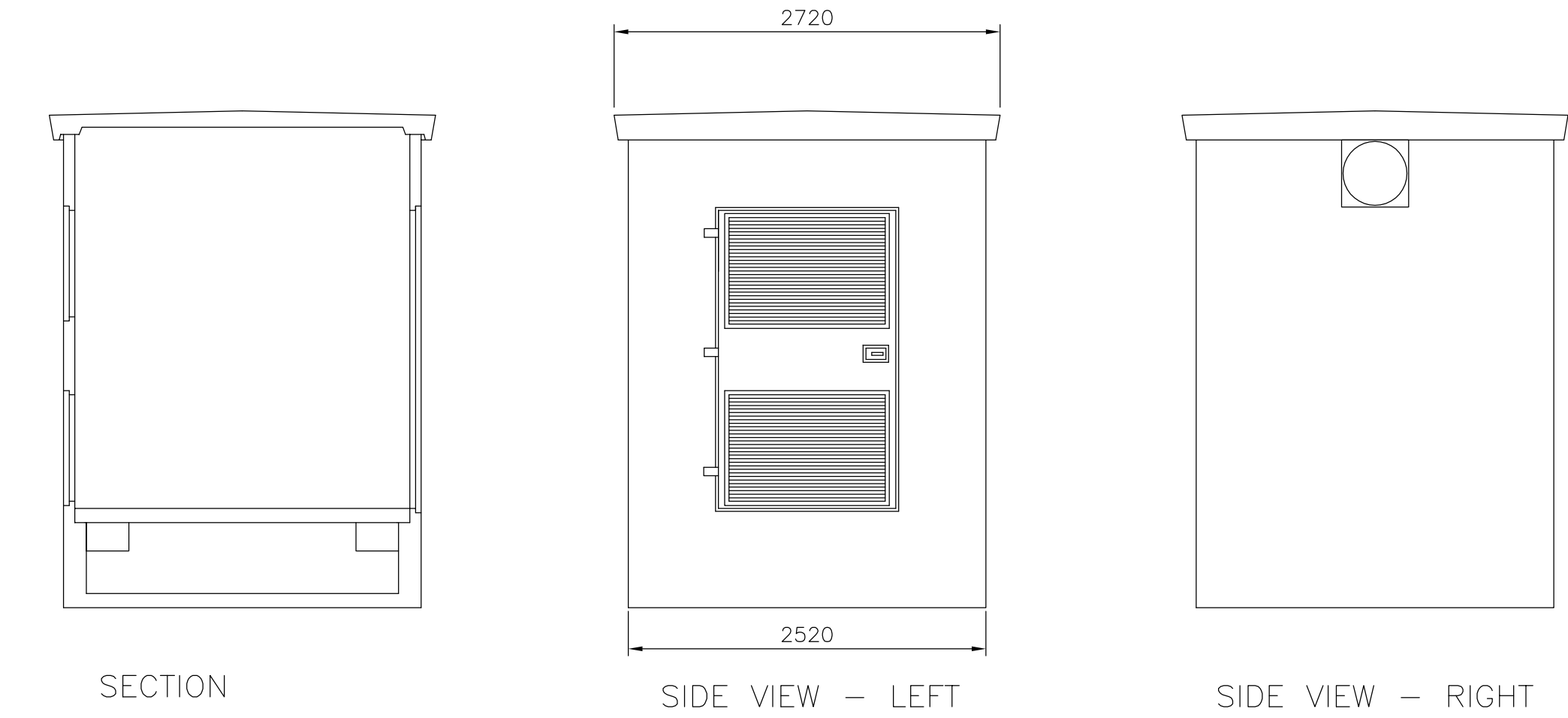
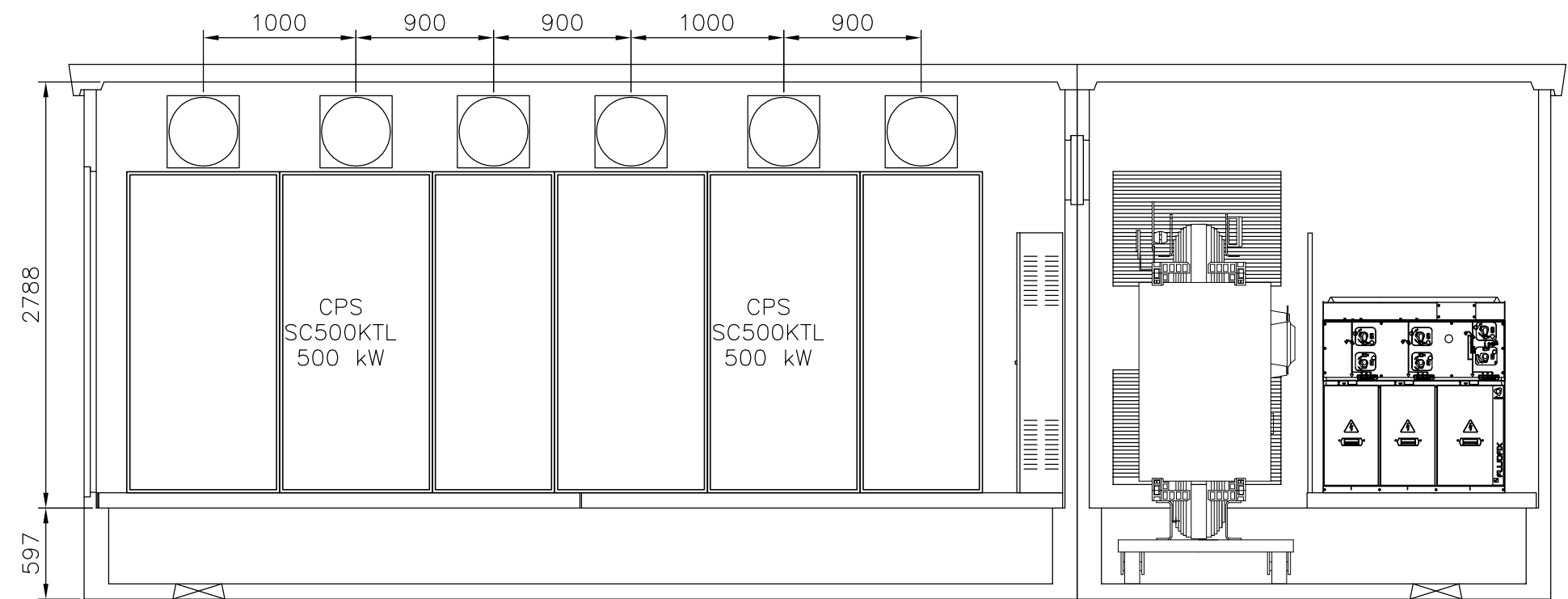
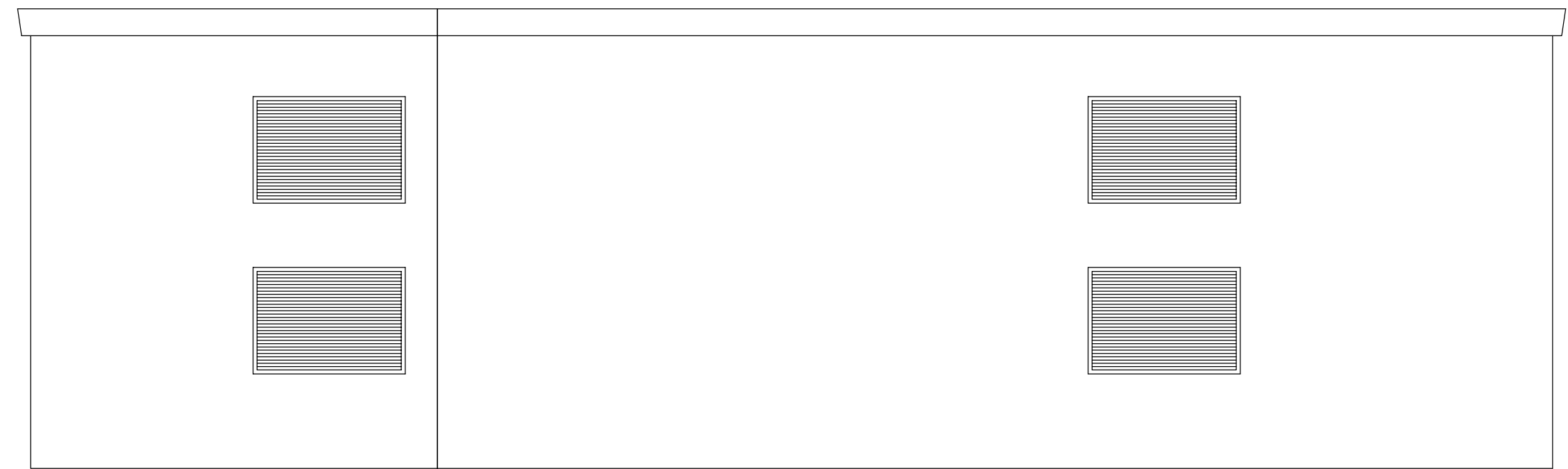
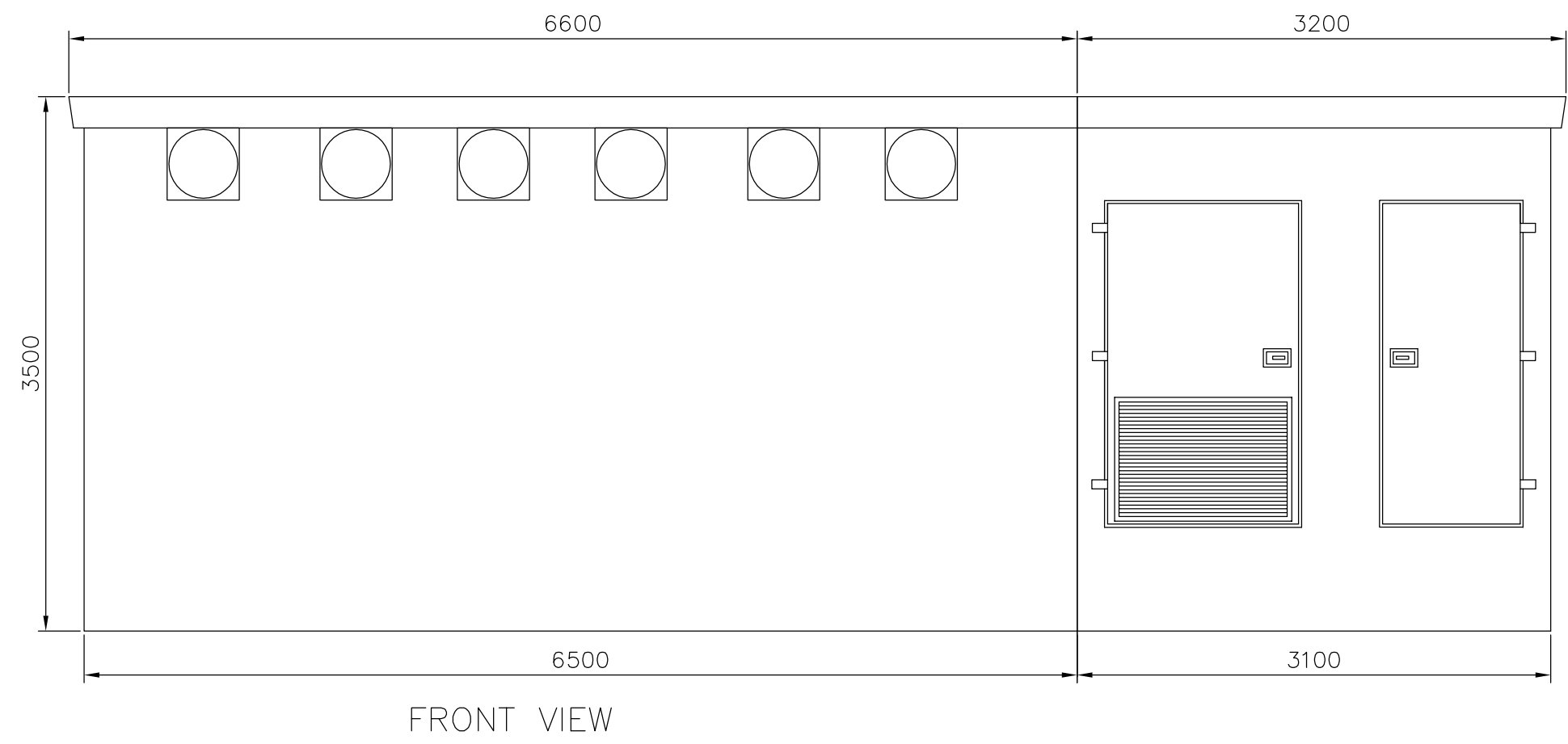
(1) CONNECTION PROTECTION MEASUREMENT:
3 VT double winding:
primary: 22000/V3
secondary protection 59,27,81M-m: 110/V3 Class 0,5 50 VA
secondary protection 64L: 110/3 Class 3P 50 VA with ferro resonance dumping



- (1) GENERATION METERING (PRIVATE):
3 CT 300–600/5 Class 0.2 S 10 VA
- (2) GENERATION METERING (PRIVATE):
3 VT double winding:
primary: 22000/V3
secondary metering: 110/V3 Class 0.2 25 VA
secondary ferro resonance resistor: 110/3 Class 3P 50 VA
- (3) FERRO RESONANCE DUMPING RESISTOR
- (4) NIGHT DISCONNECTION TO AVOID TRANSFORMER CONSUMPTION



- RATED POWER: 1.250 kVA
- RATIO: 400V / 20 kV
- REGULATION: 20 kV +2.5% +5% +7.5% +10%
- CONNECTION GROUP: Dy11
- COOLING: AN



TRANSFORMER STATION FUNCTIONAL UNITS




TRANSFORMER PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) - 630A/16KA

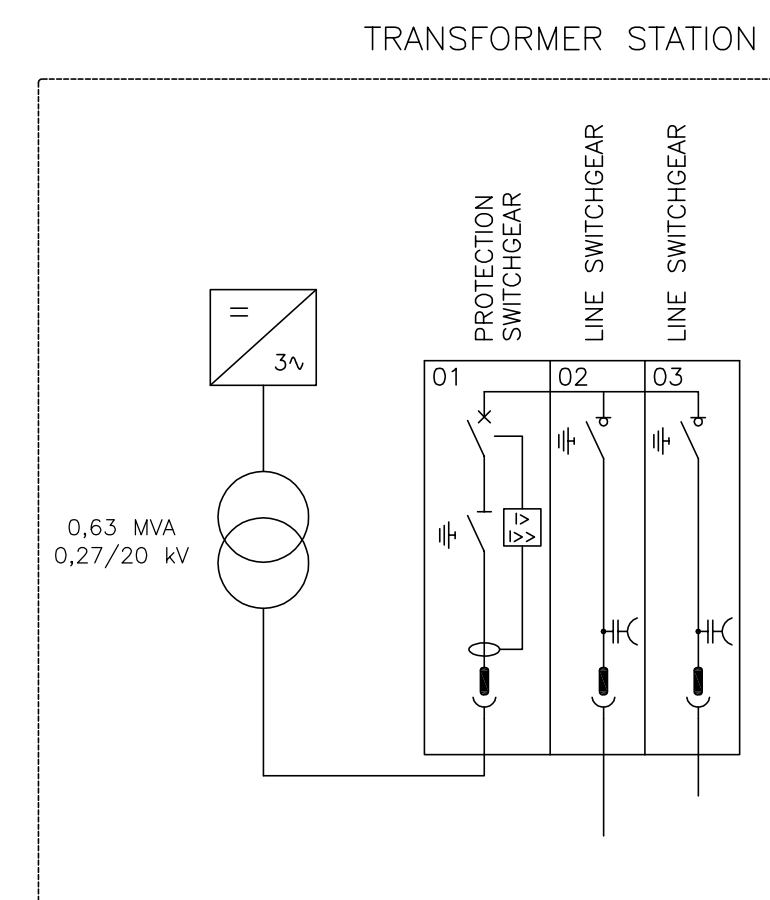
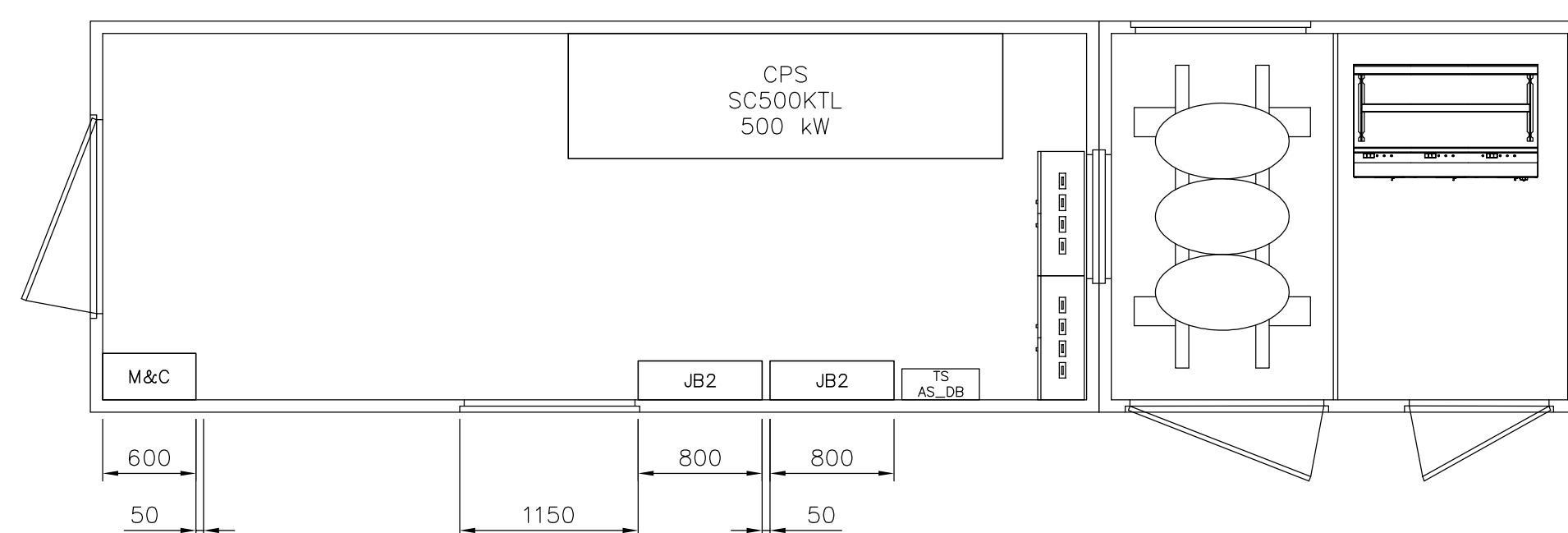
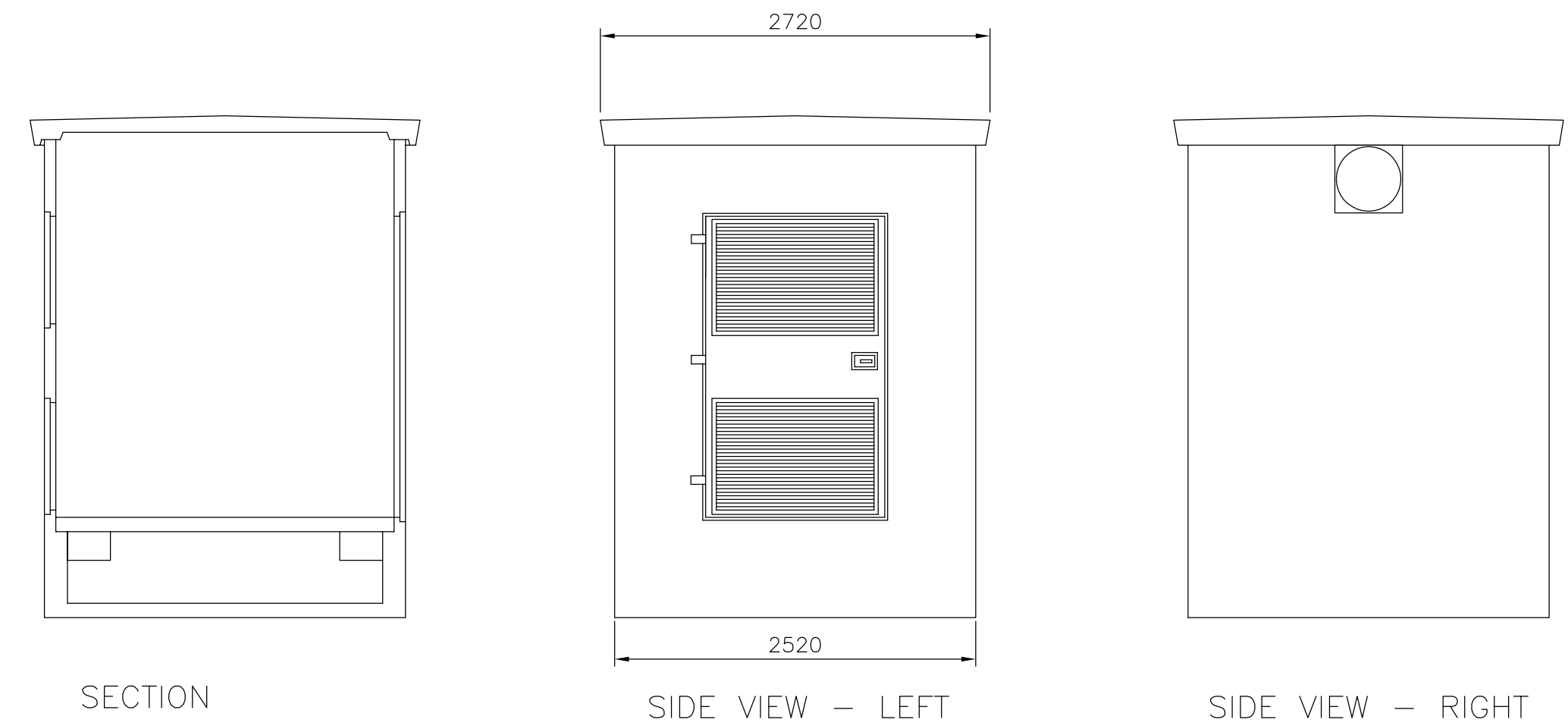
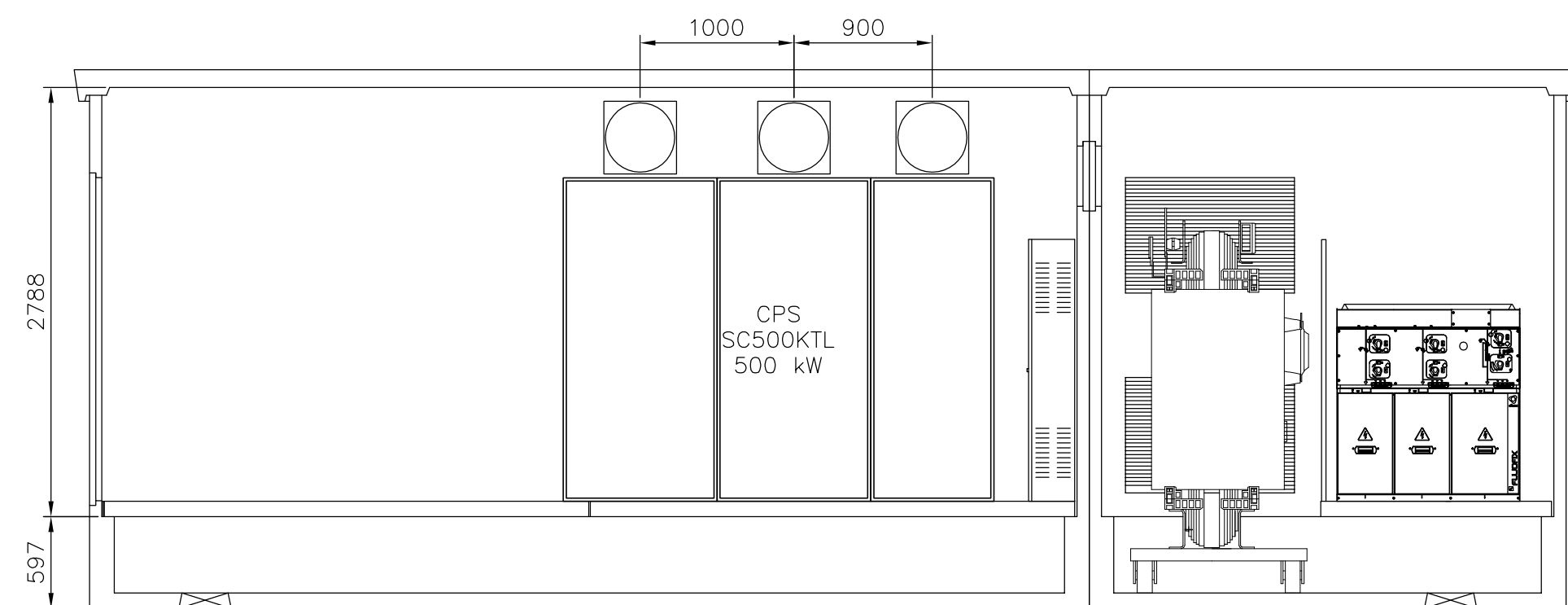
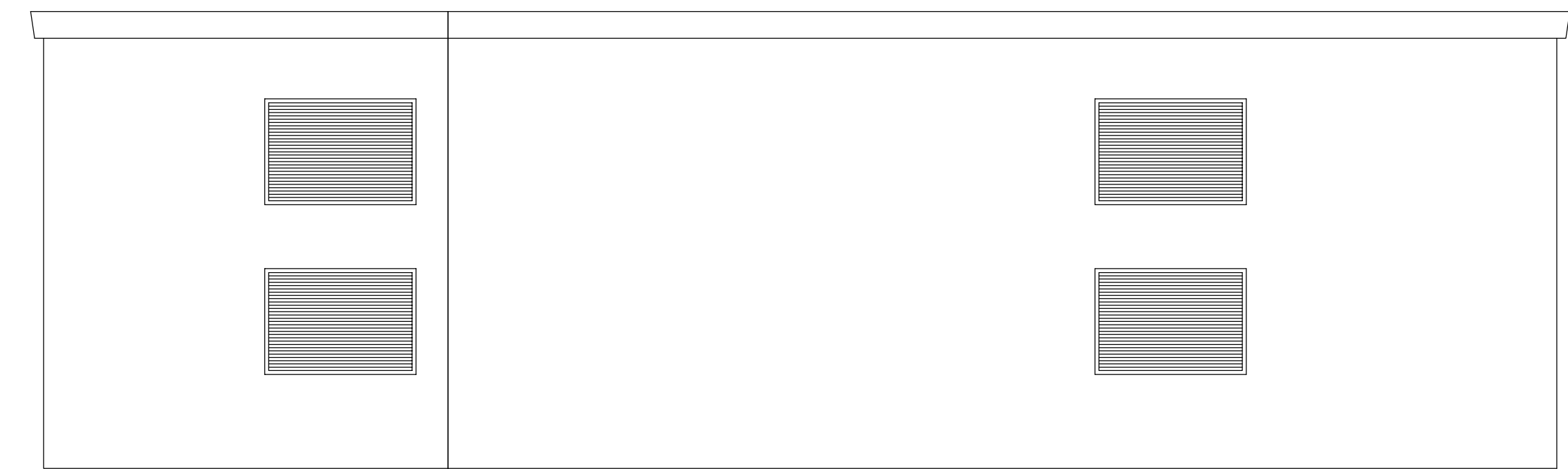
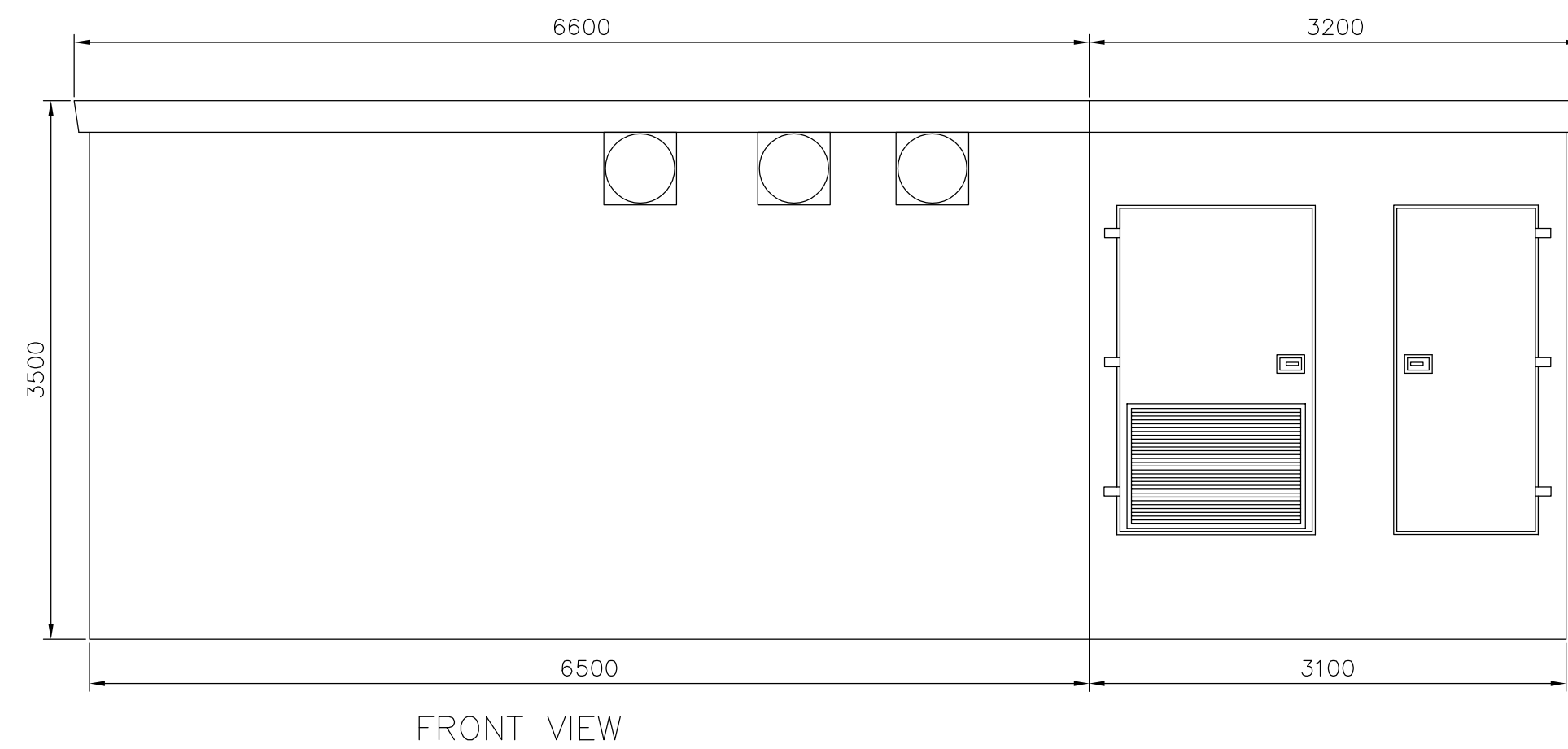
INCOMING LINE: SWITCH UNIT (IM) - 630A

OUTGOING LINE: SWITCH UNIT (IM) - 630A

TRANSFORMER

- RATED POWER: 1.250 kVA
- RATIO: 270V / 20 kV
- REGULATION: 20 kV -5% -2.5% +2.5% +5%
- CONNECTION GROUP: Dy11
- COOLING: AN

| | | | |
|--|---|----------------------------------|--|
| Management de proiect: | | REFERAT DE VERIFICARE - NR./DATA | |
| <div><div><div>ibener</div></div><div><div><div>energovital</div></div><div><div><div>energovital</div></div></div></div></div> | | | |
| Proiectant: | S.C. Energetica Grup S.R.L. Localizator: Av. 26 Septembrie, Nr. 1, Et. 1, 112014 Cluj Napoca Nr. Licenta: 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| | |



TRANSFORMER STATION FUNCTIONAL UNITS

TRANSFORMER PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) - 630A/16KA
INCOMING LINE: SWITCH UNIT (IM) - 630A
OUTGOING LINE: SWITCH UNIT (IM) - 630A

INCOMING LINE: SWITCH UNIT (IM) - 630A

OUTGOING LINE: SWITCH UNIT (IM) - 630A

TRANSFORMER

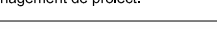


- RATED POWER: 630 kVA
- RATIO: 270V / 20 kV
- REGULATION: 20 kV -5% -2.5% +2.5% +5%
- CONNECTION GROUP: Dy11
- COOLING: AN

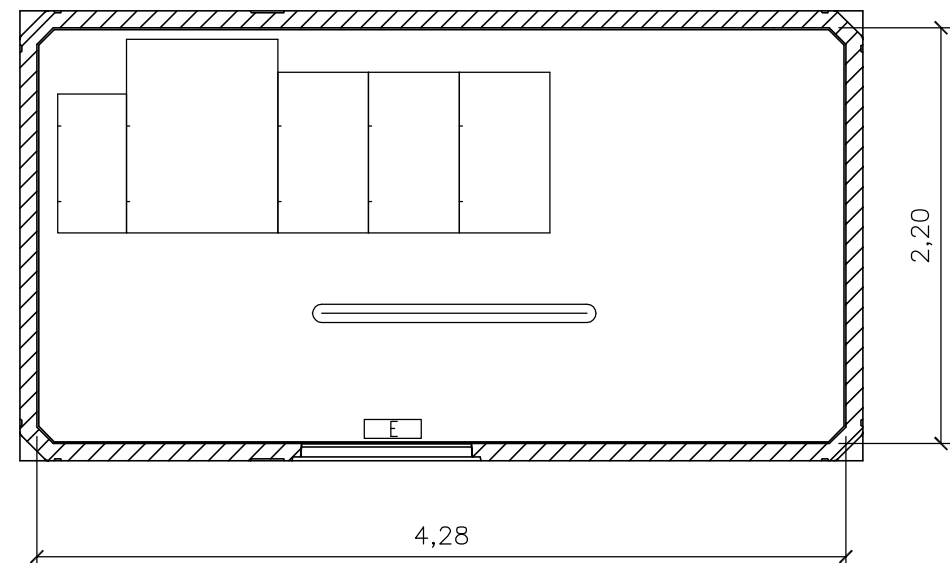
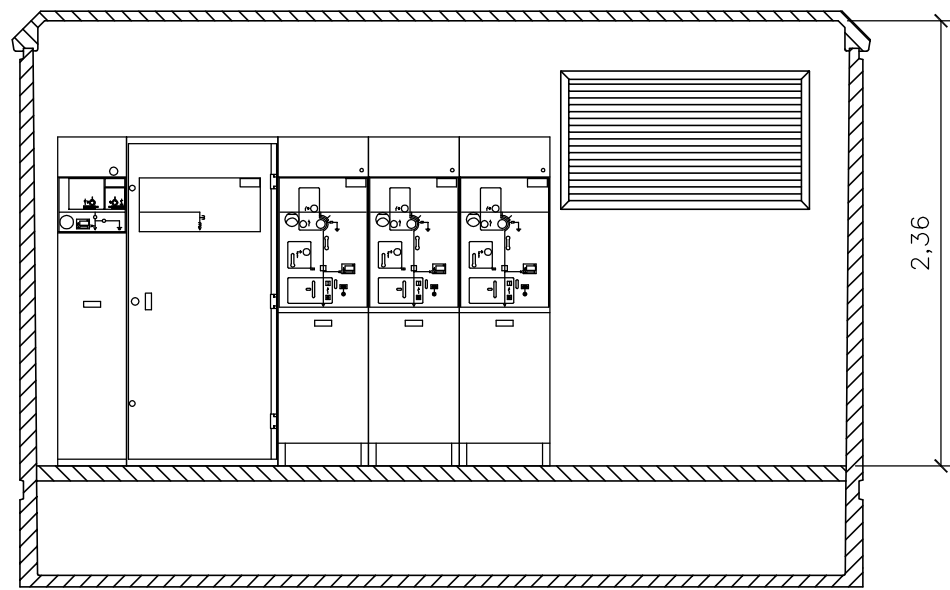
- RATED POWER: 630 kVA
- RATIO: 270V / 220V


REGULATION: 20.1V 5% 2.5% 12.5% 1.5%

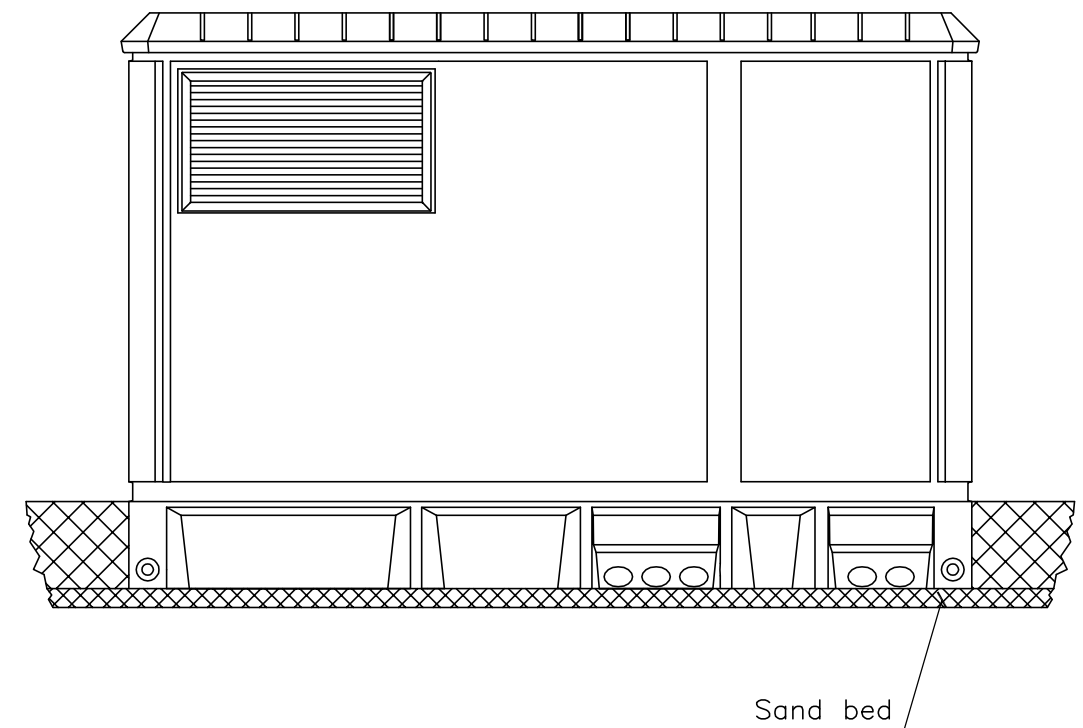
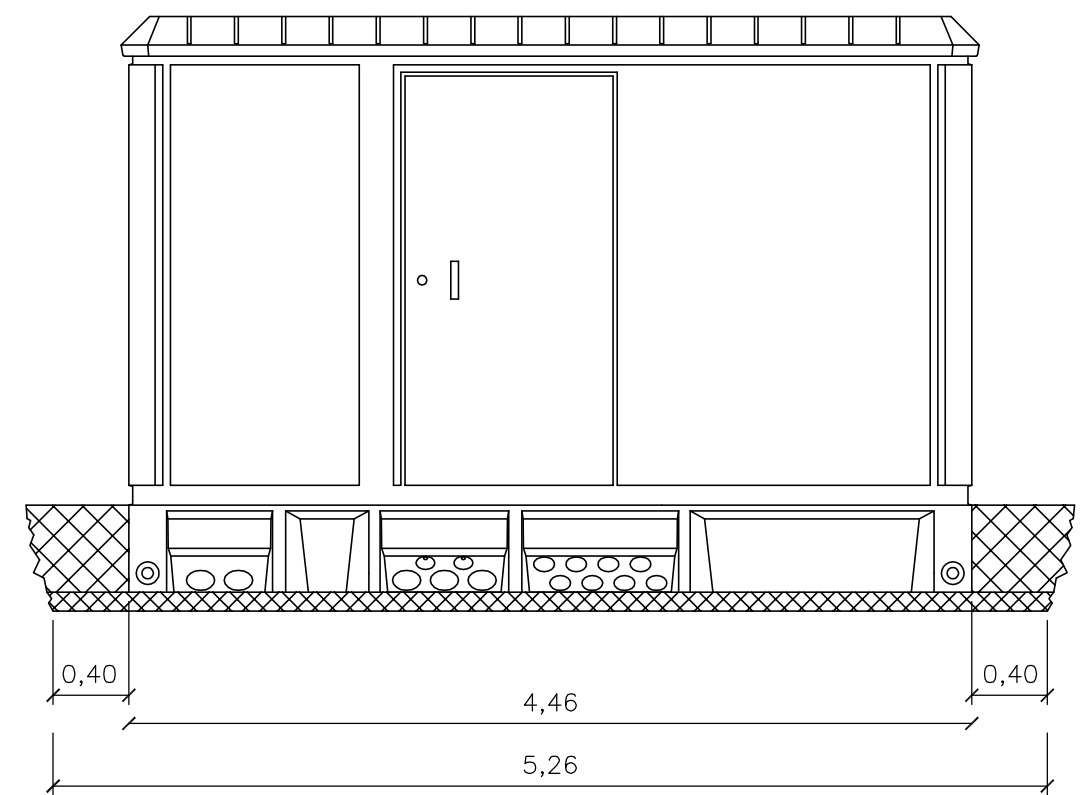
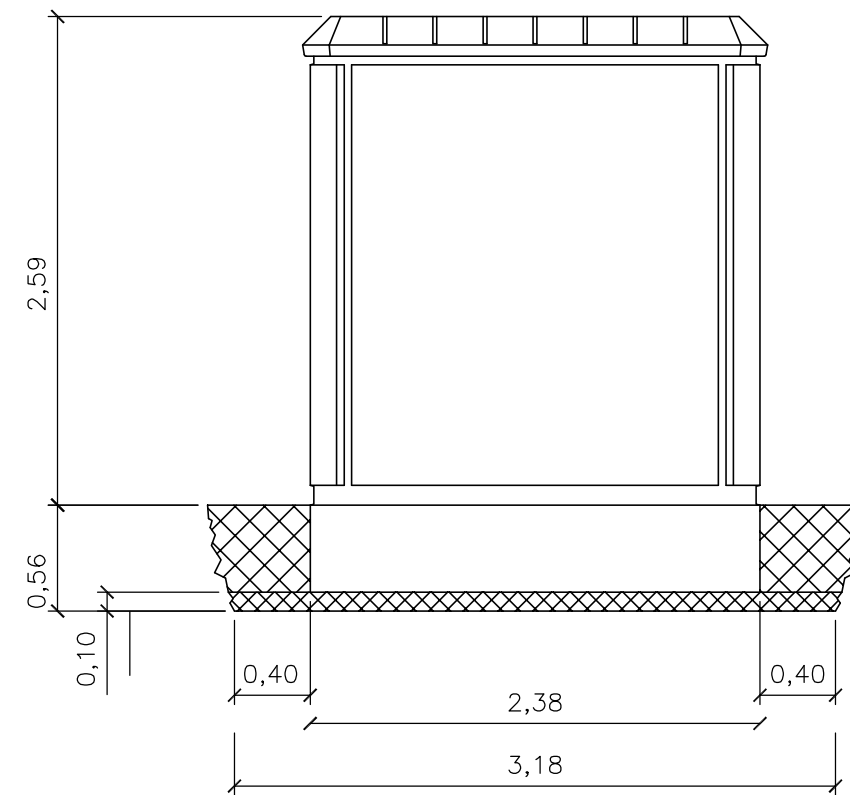
- CONNECTION GROUP: Dv11

– COOLING: AN

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|---|---|---|------------------------|
| [Management de proiect: | | REPERAT DE VERIFICARE NR.DATA | |
|   | | | |
| Proiectant: | SC Energogroup Corp SRL Locațiune (palea) Nr. Micșani Nr. 276, C. 3, C. 4, C. 5, C. 6 Nr. 1 Locațiune (palea) Nr. 18, C. 1, C. 2, C. 3, C. 4, C. 5, C. 6 Nr. 1 www.energo.ro | | Proiect nr. 11/2010 |
|  | | | |
| SPECIFICATIE: | NUME | Semnatura: | Scara: |
| Sub proiect: | Ing. Joen Berengui | Sept 2012 | |
| Proiectat: | Ing.Dorinel Baghici | Scara: | |
| Desenat: | Ing.Tudor Ian | I:6.0 | |
| | | Benevol: | |
| | | GAMA & DIETA ENERGY SRL Judetul Iasi, Strada 10, Nr. 10, C. 1, C. 2, C. 3, C. 4, C. 5, C. 6 Nr. 1 660700/PSI, CEN ROMEN 8887 | |
| | | Document proiect: | |
| | | FERMA SOLARA DE PRODUCERE A ENERGII ELECTRICE SERB2 | |
| | | Titlul planșei: | |
| | | STATIE DE TRANSFORMARE 630 kVA | |
| | | Plansa Nr. 20B | |

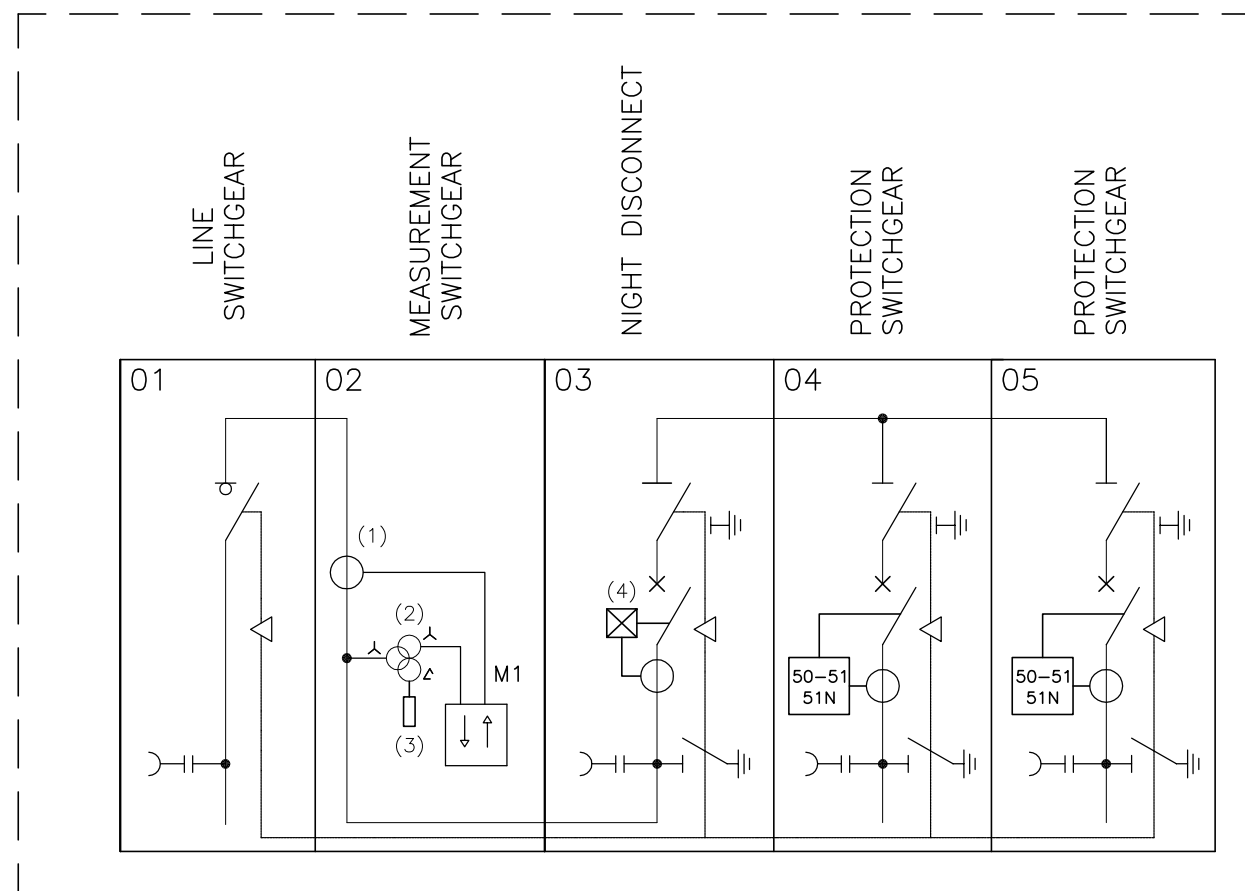


 FLUORESCENT LAMP
 EMERGENCY LIGHT



FOUNDATION EXCAVATION DIMENSIONS
 5.26 m (length) x 3.18 m (width) x 0.56 m (depth)



COLLECTOR STATION



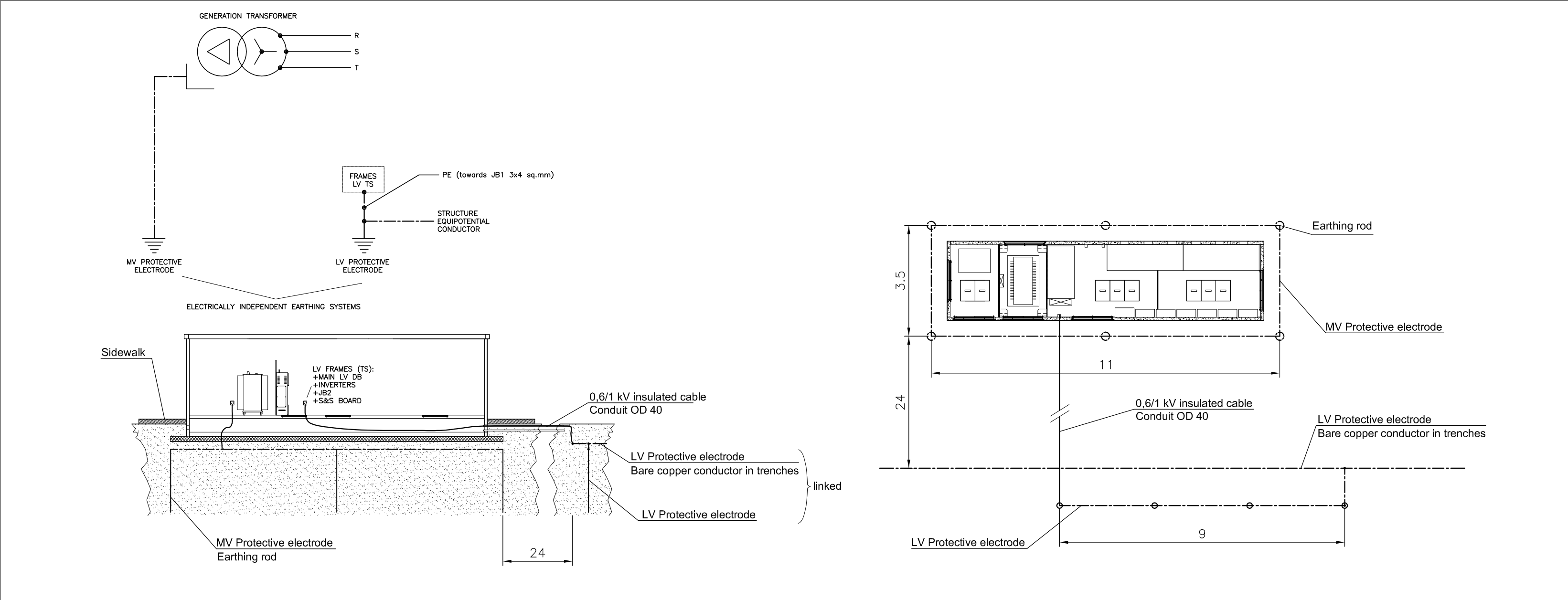
COLLECTOR STATION FUNCTIONAL UNITS

- 01 OUTGOING LINE: SWITCH UNIT (IM) – 630A
- 02 PRIVATE METERING: MEASUREMENT UNIT (GBC-A)
- 03 NIGHT DISCONNECT: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/20KA
- 04 RING PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/20KA
- 05 RING PROTECTION: VACUUM CIRCUIT BREAKER (DMVL-A) – 630A/20KA

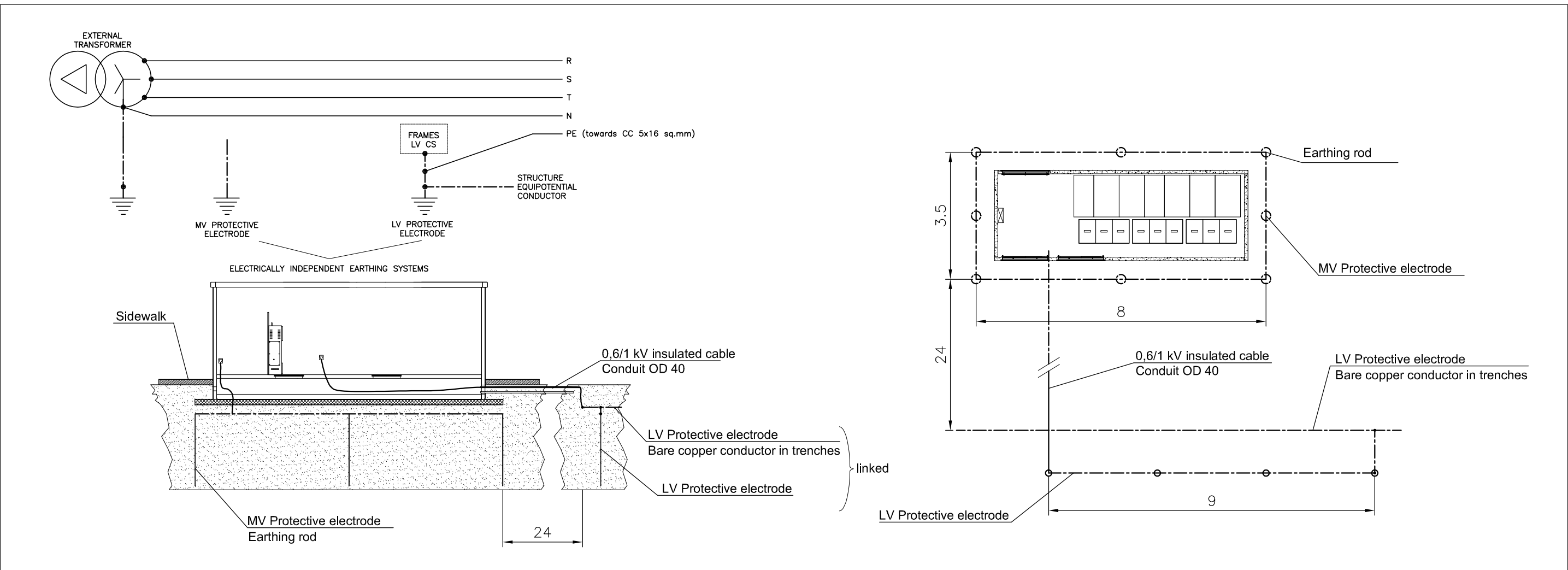
- (1) GENERATION METERING (PRIVATE):
3 CT 300–600/5 Class 0,2 S 10 VA
- (2) GENERATION METERING (PRIVATE):
3 VT double winding:
primary: 22000/V3
secondary metering: 110/V3 Class 0,2 25 VA
secondary ferro resonance resistor: 110/3 Class 3P 50 VA
- (3) FERRO RESONANCE DUMPING RESISTOR
- (4) NIGHT DISCONNECTION TO AVOID TRANSFORMER CONSUMPTION



| | | | | |
|---|---|--------|---|---|
| Management de proiect: | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | |
| Proiectant: | S.C. Energovoltaic Group S.R.L., Localitatea Arad, Str. Metana, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. RO239773009 CUI: RO23595932, Tel 05414230 www.energovoltaic.ro | | Beneficiar: | GAMA & DELTA ENERGY S.R.L., Județul Arad Localitatea Arad Str. Cpt. Grigore Igaț, nr.50 AP. 2a, JO2/1075/2011 CUI: RO29992657 |
| Proiect nr.: | 11/2010 | | Denumire proiect: | FAZA: DTAC |
| Sef proiect: | Ing. Joan Berengué | Scara: | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERIS2 | |
| Proiectat: | Ing.Dragos Baghici | | | |
| Desenat: | Ing.Trăian Iltut | | | |
| | | | STATIE DE COLECTARE | |
| | | | Plansa Nr. 21 | |

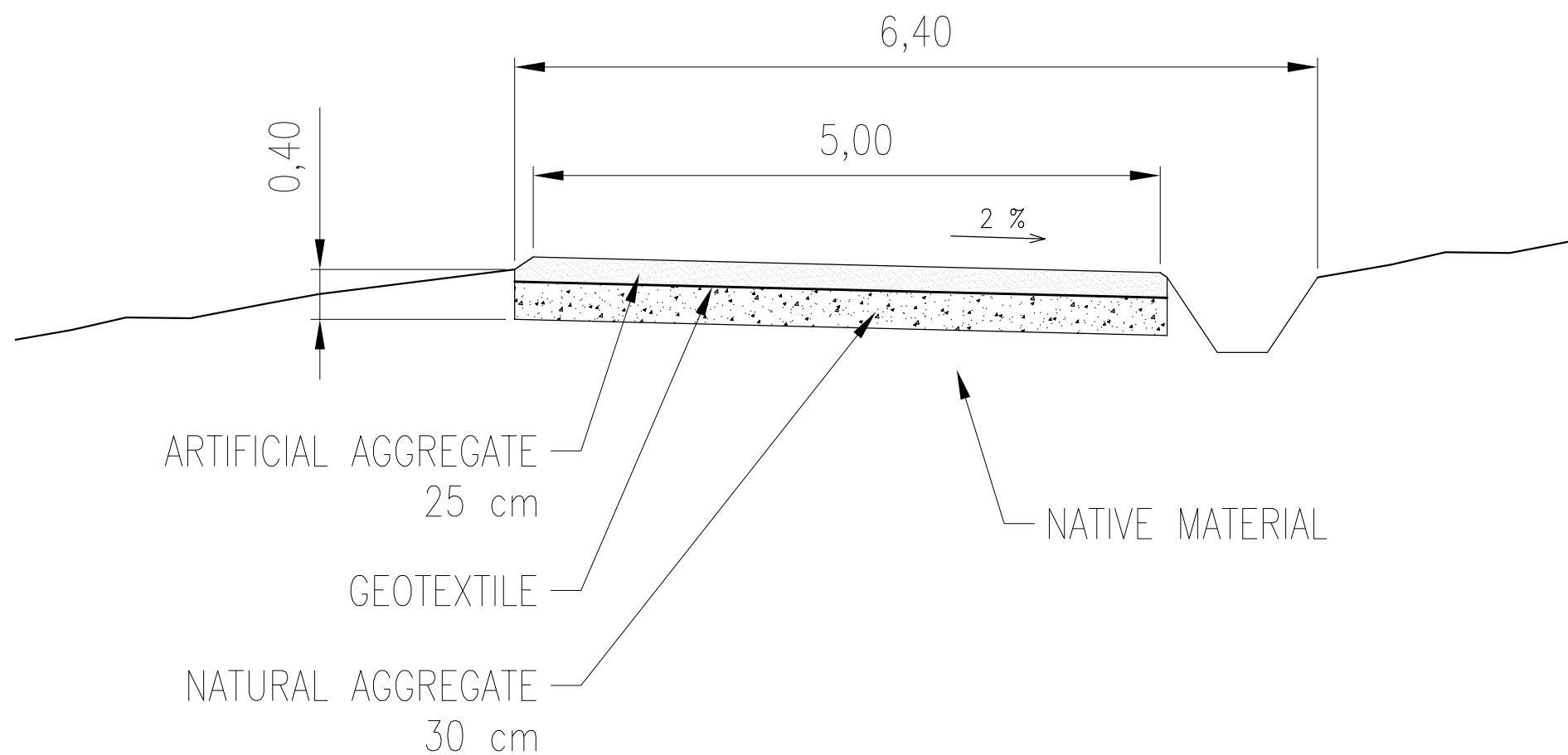
TRANSFORMER STATION






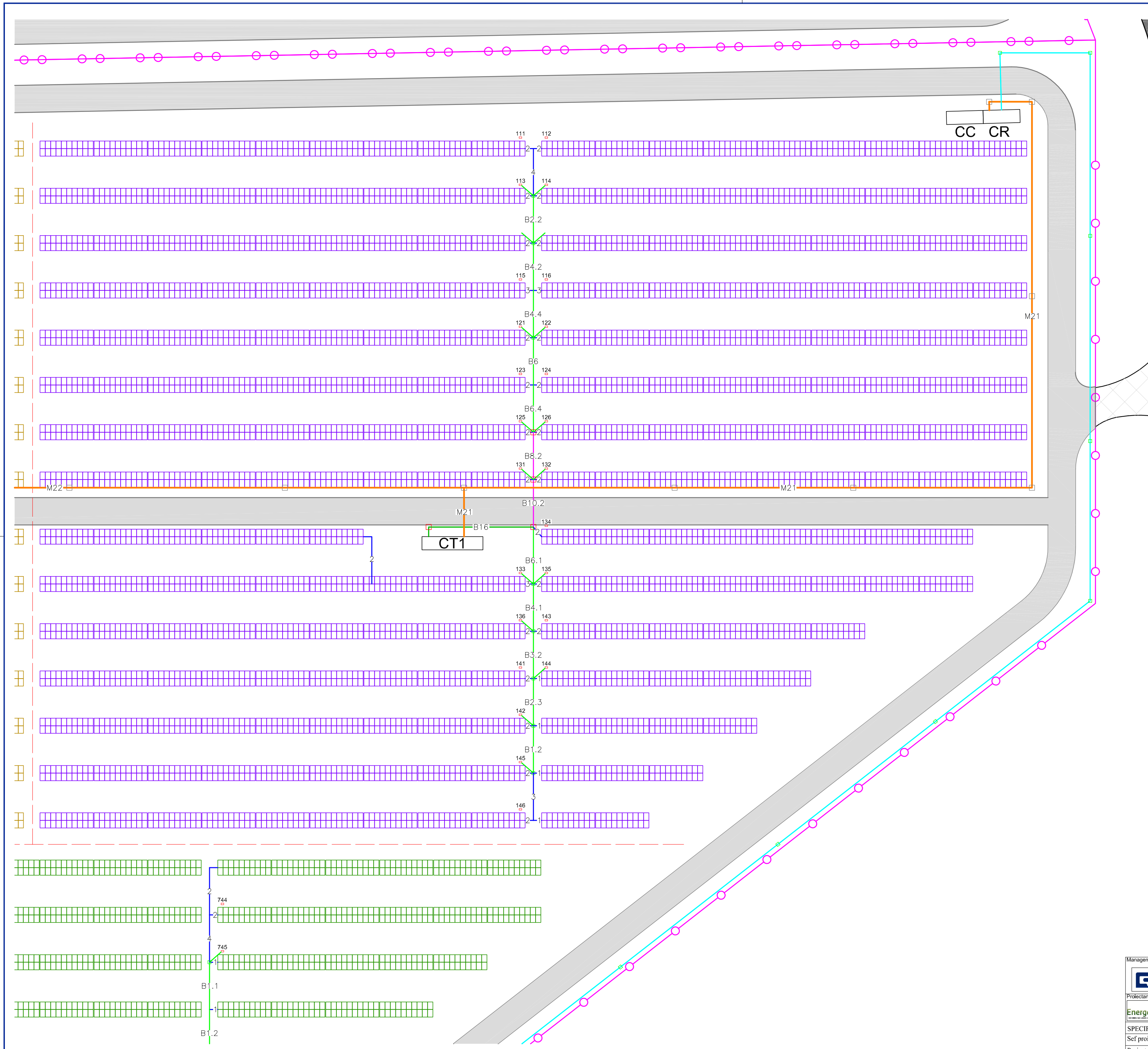
COLLECTOR STATION



| | | | | |
|---|---|------------|--------------------------------|--|
| Management de proiect: | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | |
| Proiectant: | S.C. Energovoltaj Group S.R.L. Localitatea Arad, Str. Meisina, Nr. 2, Et. 1, Ap. 3 Corp. A. Nr. Reg. Com. 302/98773069 CUI: RO25595382 - Tel 05414230 www.energiovoltaj.ro | | Beneficiar: | GAMA & DELTA ENERGY S.R.L. Județul Arad Localitatea Arad Str. Cpt. Grigore Ișut, nr.50 AP. 2a. 302/1075/2011 CUI: RO29892657 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FAZA: DTAC |
| Proiectat: | Ing. Dragos Baghici | | | |
| Desenat: | Ing. Traian Iut | | | |
| | | | | Titlul planșei |
| | | | | SISTEM DE SOL MV |
| | | | | Plansa Nr. 25 |



| | | | | | |
|--|--------------------|------------|-----------|---|-------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
|   | | | | | |
| Proiectant:  S.C. Energovoltaj Group S.R.L. Localitatea Arad, Str. Metanul, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: | Proiect nr. |
| | | | | GAMA & DELTA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1075/2011 CUI: RO29092657 | 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS2 | DTAC |
| Proiectat: | Ing. Dragos Baghiu | | Scara: | Titlul plansei: | Plansa Nr. |
| Desenat: | Ing. Traian Ihut | | 1:50 | SECTIUNE DE DRUM | 31 |



KEY

PATH 5m WIDTH

EXISTING ROAD

CR

CC

CT

CT SS.AA.

CN1

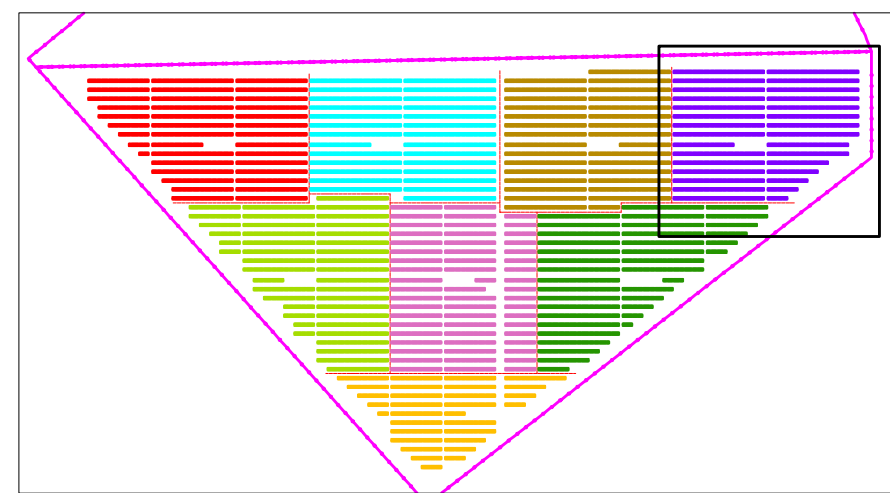
B1.6

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

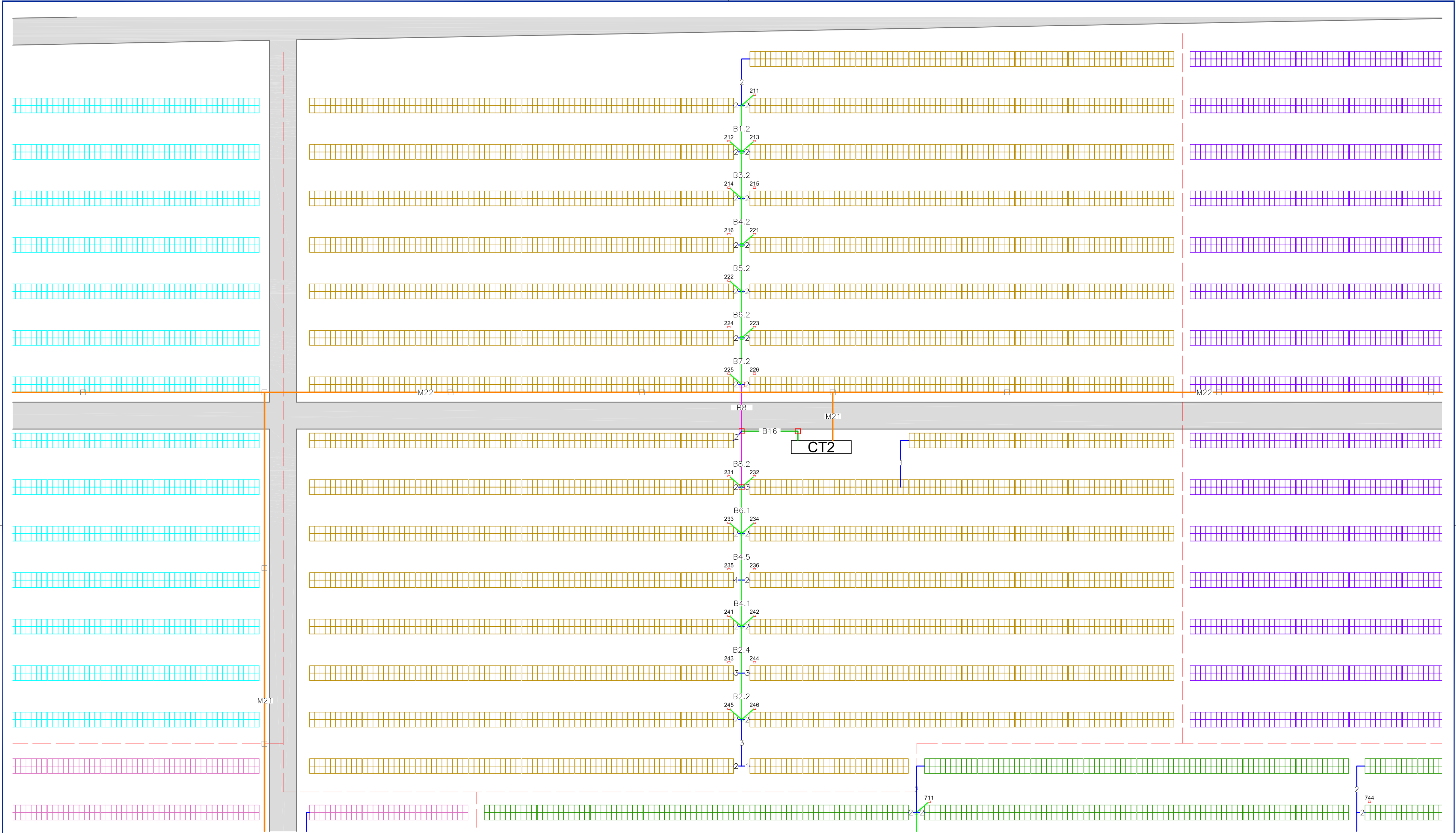
CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

| | | | | | |
|---|--|--|--|---|-------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div><div></div></div><div><div></div></div></div> | | | | | |
| Proiectant: | | | | Beneficiar: | Proiect nr. |
| <div><div><div></div></div><div><div></div></div></div> | | | | GAMA & DELTA ENERGY SRL Judeul Arad Localitatea Arad Str. Cpt. Grigore Ispat, nr.50 AP. 2a. 102/1075/2011 CUI: RO29092657 | 11/2010 |
| SPECIFICATIE: | | | | Denumire proiect: | |
| Sef proiect: | | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERBIZ | |
| Proiectat: | | | | FAZA: | |
| Desenat: | | | | DTAC | |
| | | | | Titlul plansei: | |
| | | | | DISPUNEREA | |
| | | | | SANTURILOR TSI | |
| | | | | Plansa Nr. | |
| | | | | 32A | |



KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSSES
- FENCE
- CR COLLECTOR STATION
- CC MONITORING CENTER
- CT TRANSFORMER STATION
- AUXILIARY SUPPLY TS
- CT SS,AA.
- CN1

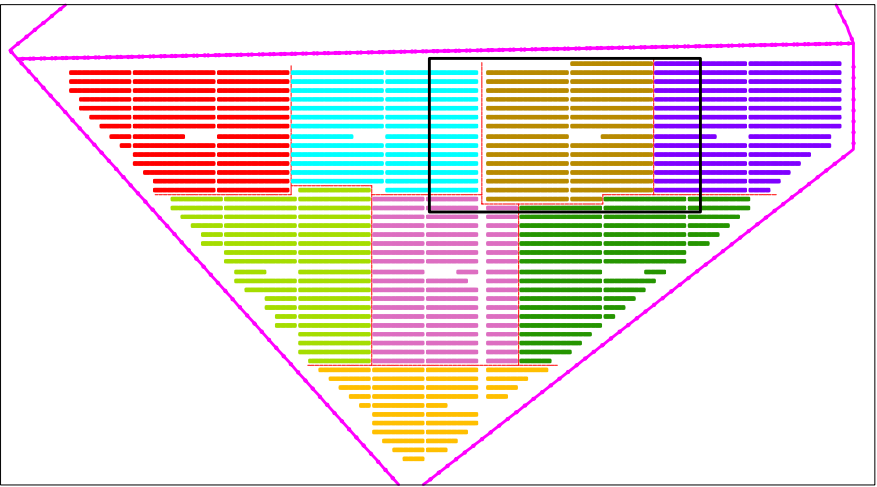
- LV TRENCH DEPTH 0,55mx50
- LV TRENCH DEPTH 0,80mx50
- LV TRENCH DEPTH 1,00mx50
- LV TRENCH DEPTH 1,20mx50
- MV TRENCH DEPTH 1,10mx50
- S&S TRENCH DEPTH 0,80mx50
- B1.6 LV TRENCH TYPE
- LV ACCESS CHAMBER 60x60x90
- LV ACCESS CHAMBER 100x100x100
- MV ACCESS CHAMBER 100x100x120

CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

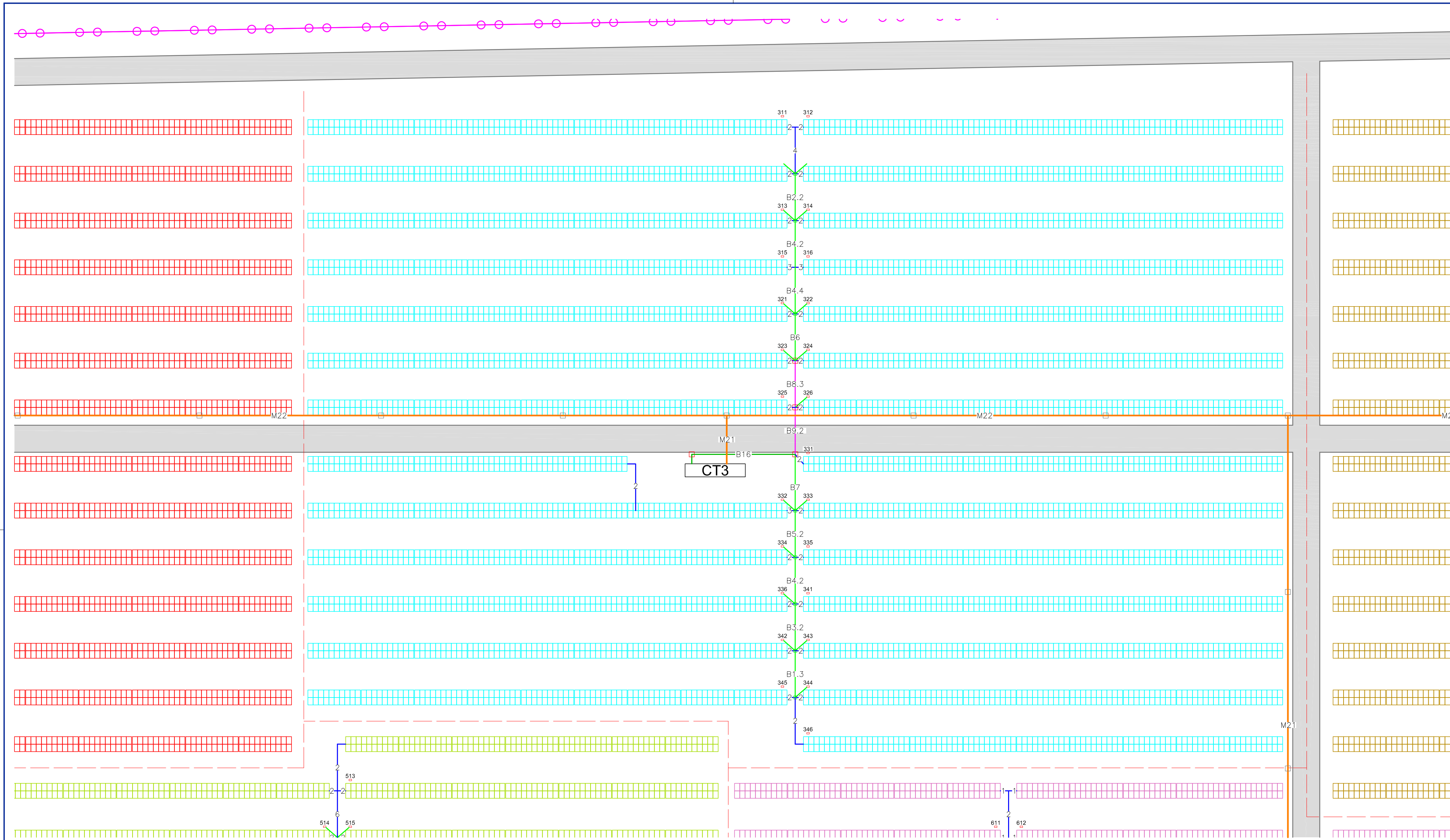
CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

| | | | | | |
|--|--|--|--|--------------------------------|--|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| <div>Proiectant: GPEM ibener</div> | | | | | |
| <div>Proiectat: Energovoltai Group S.R.L.</div> | | | | | |
| <div>Desenat: Ing. Dragoș Baghiu</div> | | | | | |
| <div>Scara: 1:500</div> | | | | | |
| <div>Titlul planșei: DISPUNEREA SANTURILOR TS2</div> | | | | | |
| <div>Beneficiar: GAMA & DELTA ENERGY S.R.L.</div> | | | | | |
| <div>Proiect nr. 11/2010</div> | | | | | |
| <div>FAZA: DTAC</div> | | | | | |
| <div>Plansa Nr. 32B</div> | | | | | |



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

B1.6

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

CT Nomenclature: X
X: CT # (from 1 to 8)

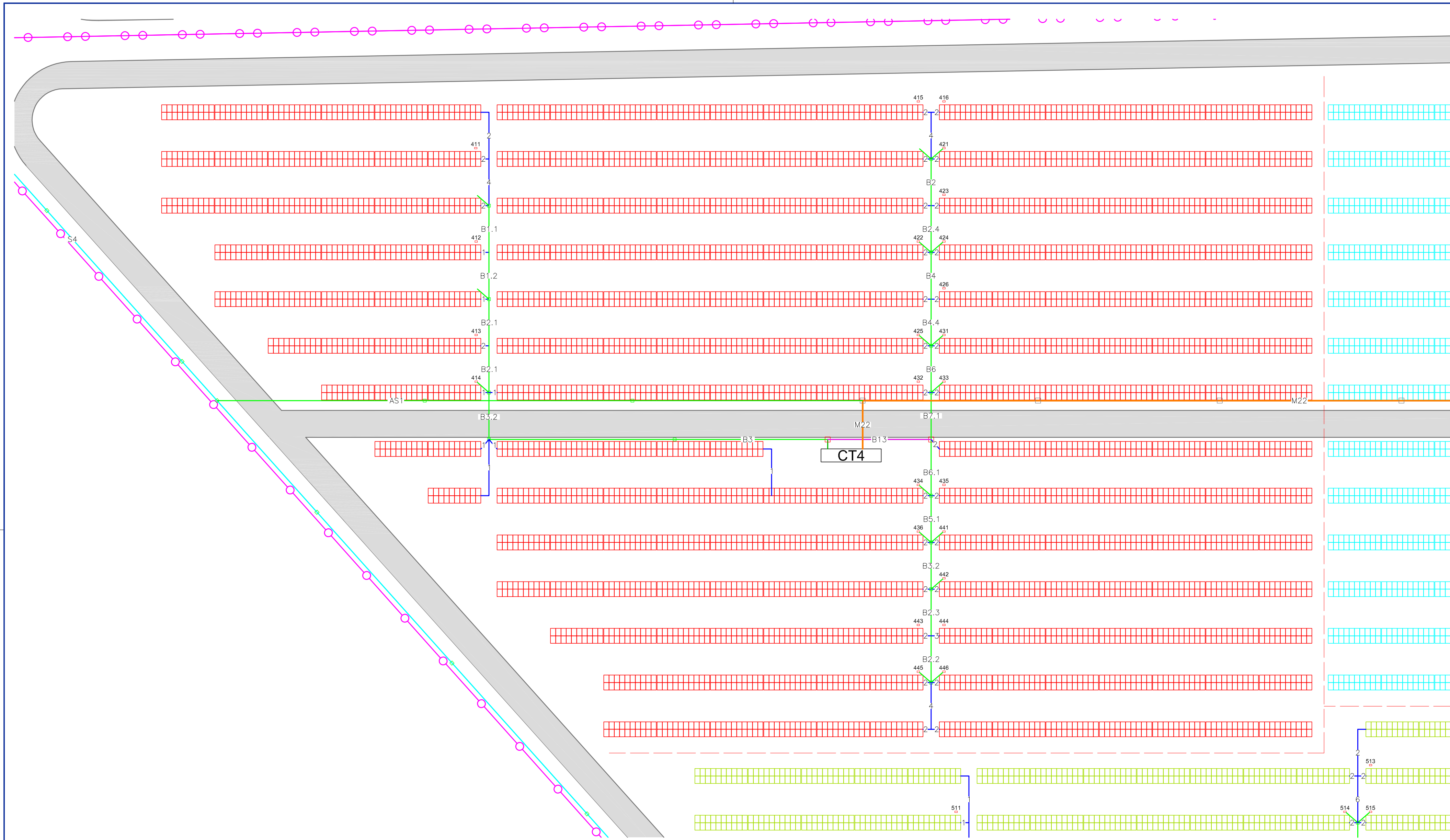
CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

KEY DRAWING

| | | | | | |
|--|--|--|--|---|--|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div><div>Proiectant:</div><div><div><div><div></div><div>Energovolt</div><div>Grup S.R.L.</div></div><div><div>Localitatea Arad, Str. Metania, Nr. 2, Et. 1, Ap. 3, Corp. A.</div><div>Nr. Reg. Com. 20238772849 CUI: RO238939382, T6161414230</div><div>www.energiovolt.ro</div></div></div><div><div><div></div><div>ibener</div></div><div><div>S.C. Energiovolt Grup S.R.L.</div><div>Localitatea Arad, Str. Metania, Nr. 2, Et. 1, Ap. 3, Corp. A.</div><div>Nr. Reg. Com. 20238772849 CUI: RO238939382, T6161414230</div><div>www.energiovolt.ro</div></div></div></div></div></div> | | | | Beneficiar: | |
| SPECIFICATIE: | | | | Denumire proiect: | |
| Scf proiect: | | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERBIS | |
| Proiectat: | | | | Titlul plansei: | |
| Desenat: | | | | Scara: | |
| | | | | 1:500 | |
| | | | | FAZA: | |
| | | | | DTAC | |
| | | | | Plansa Nr. | |
| | | | | 32C | |



KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS,AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

B1.6

LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

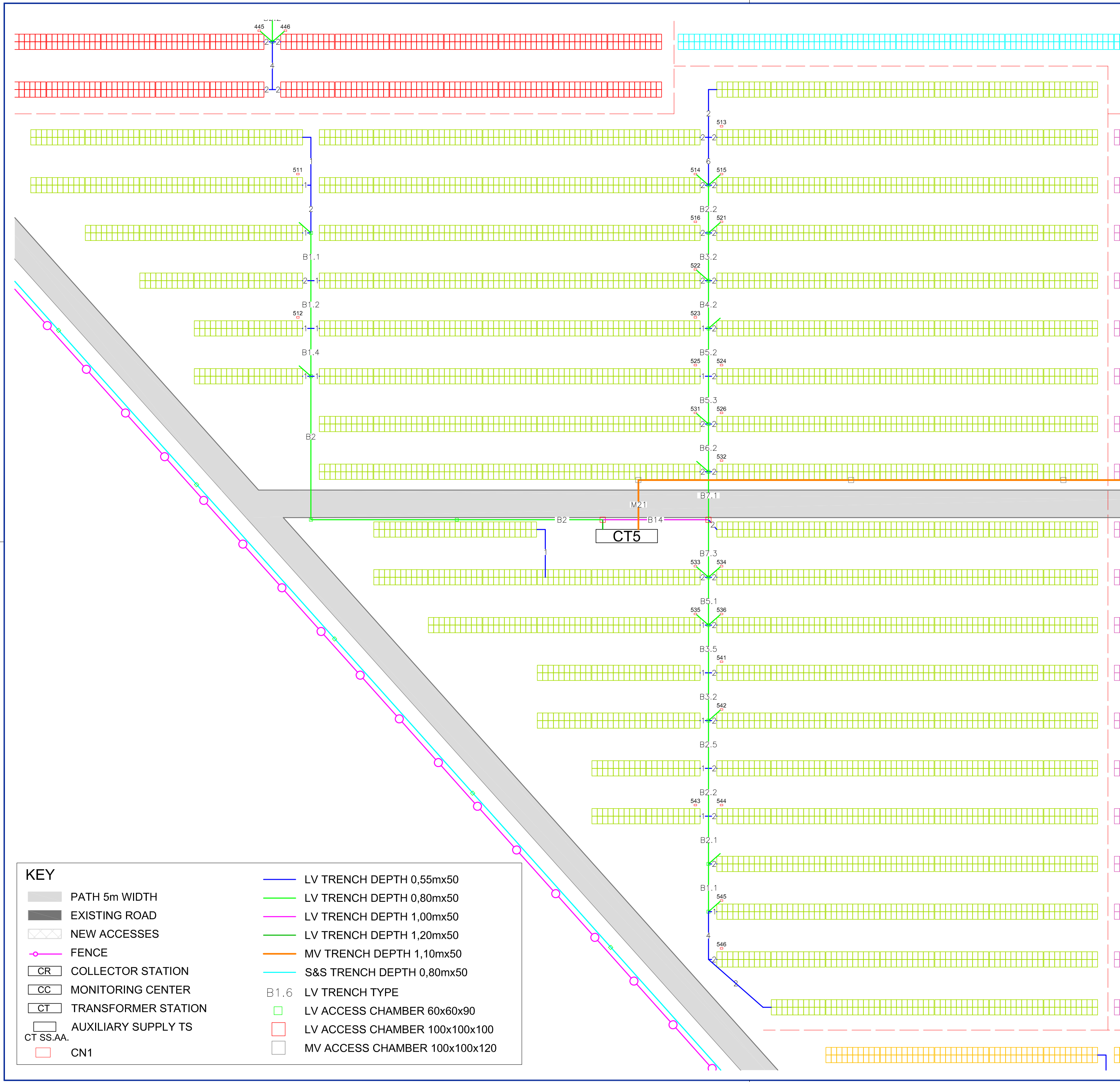
CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

| | | | | | |
|--|--|--|--|--------------------------------|--|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div><div><div></div><div>GIPEN</div></div><div><div></div><div>ibener</div></div></div><div><div>Proiectant:</div><div>S.C. Energovoltaic Group S.R.L.</div><div>Localitatea Arad, Str. Metania, Nr. 2, Et. 1, Ap. 3, Corp. A.</div><div>Nr. Reg. Com. 202/097/2009 C.U.I. RO25959382, T.C.05414230</div><div>www.energovoltaic.ro</div></div></div> <div><div>Beneficiar:</div><div>GAMA & DELTA ENERGY S.R.L.</div><div>Județul Arad Localitatea Arad Str. Cpt. Grigore Iugăru, nr.50 AP. 2a.</div><div>202/1075/2011 C.U.I. RO259592657</div></div> <div><div>Proiect nr.</div><div>11/2010</div></div> | | | | | |
| <div><div><div><div></div><div>Energovoltaic Group</div></div><div><div></div><div>ibener</div></div></div><div><div>Specificatie:</div><div>NUME</div><div>Semnatura:</div><div>Data:</div></div><div><div>Señ proiectat:</div><div>Ing. Joan Berengue</div><div>Sept 2012</div></div><div><div>Proiectat:</div><div>Ing. Dragoș Baghiu</div><div></div></div><div><div>Desenat:</div><div>Ing. Traian Iut</div><div></div></div></div> <div><div>Denumire proiect:</div><div>FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERBIS</div><div>FAZA:</div><div>DTAC</div></div> <div><div>Titlul planșei:</div><div>DISPUNEREA SANTURILOR TS4</div><div>Plansa Nr.</div><div>32D</div></div> | | | | | |
| <div><div><div></div><div>1:500</div></div></div> | | | | | |

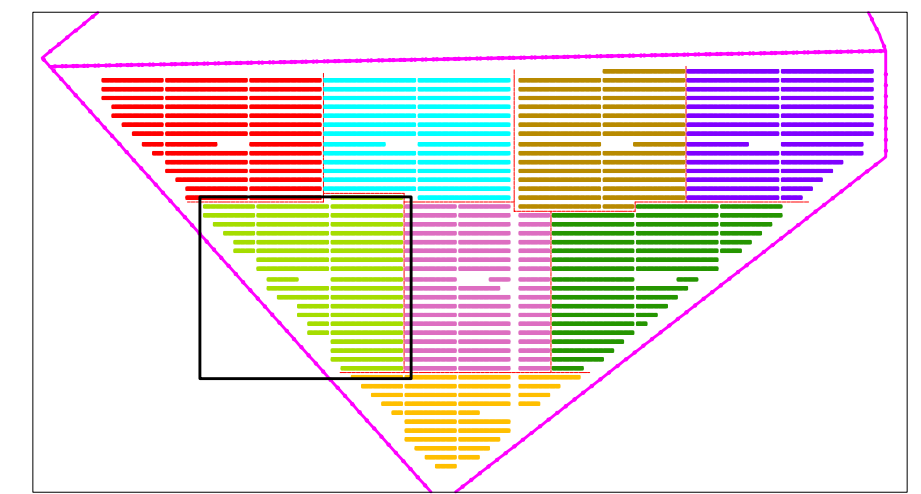


CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

KEY

PATH 5m WIDTH

EXISTING ROAD

NEW ACCESSES

FENCE

CR

COLLECTOR STATION

CC

MONITORING CENTER

CT

TRANSFORMER STATION

AUXILIARY SUPPLY TS

CT SS.AA.

CN1

LV TRENCH DEPTH 0,55mx50

LV TRENCH DEPTH 0,80mx50

LV TRENCH DEPTH 1,00mx50

LV TRENCH DEPTH 1,20mx50

MV TRENCH DEPTH 1,10mx50

S&S TRENCH DEPTH 0,80mx50

B1.6

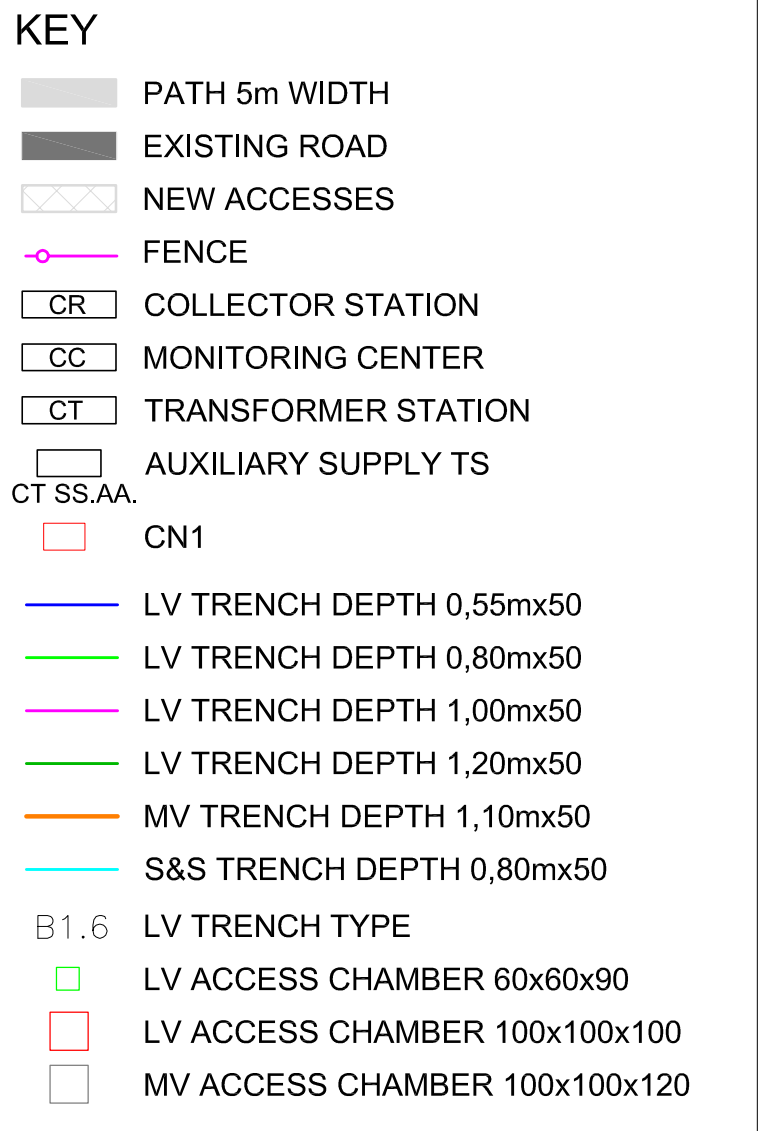
LV TRENCH TYPE

LV ACCESS CHAMBER 60x60x90

LV ACCESS CHAMBER 100x100x100

MV ACCESS CHAMBER 100x100x120

| | | | | | |
|---|--|--|--|---|-------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| <div><div><div><div></div></div><div>GDEM</div></div><div><div><div></div></div><div>ibener</div></div></div> | | | | | |
| Proiectant: | | | | Beneficiar: | Proiect nr. |
| <div><div><div><div></div></div><div>EnergovoltaiG Group</div></div><div><div><div></div></div><div>S.C. EnergovoltaiG S.R.L.</div></div></div> <div><div>Localitatea Arad, Str. Metimura, Nr. 2, Et. 1, Ap. 3, Corp. A.</div><div>Nr. Reg. Com. 202/897/2009 CUI: RO25995982, T: 035414230</div><div>www.energiovoltaiG.ro</div></div> | | | | <div><div>GAMA & DELTA ENERGY S.R.L.</div><div>Judeul Arad Localitatea Arad Str. Cpt. Grigore Ispat, nr.50 AP. 2a.</div><div>202/1075/2011 CUI: RO29092657</div></div> | 11/2010 |
| SPECIFICATIE: | | | | Denumire proiect: | |
| Scf proiect: | | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERBIS | |
| Proiectat: | | | | Titlul plansei: | |
| Desenat: | | | | DISPUNEREA SANTURILOR TS5 | |
| Scara: | | | | I:500 | |
| Data: | | | | Sept 2012 | |
| Semnatura: | | | | FAZA: DTAC | |
| Ing. Joan Berengiu | | | | Plansa Nr. | |
| Ing.Dragos Baghiu | | | | 32E | |
| Ing.Trilian Iltut | | | | | |

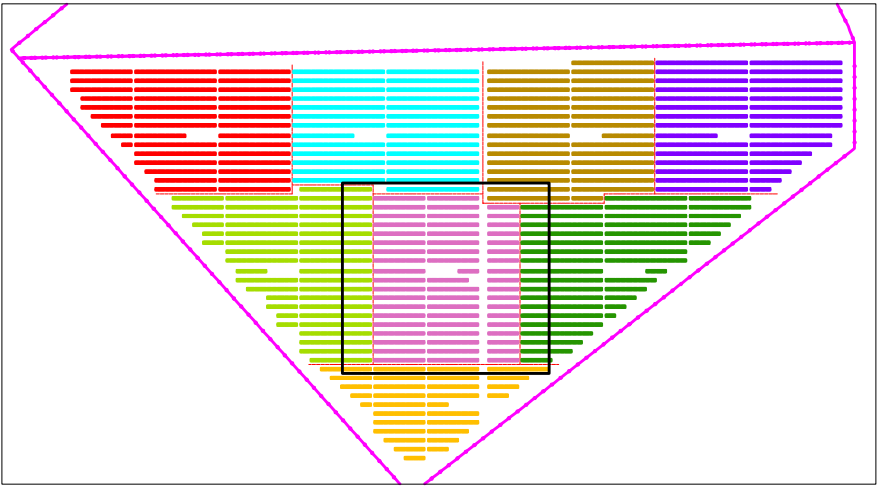


CT Nomenclature: X
X: CT # (from 1 to 8)

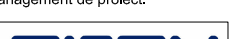


CN2 Nomenclature: XY
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)

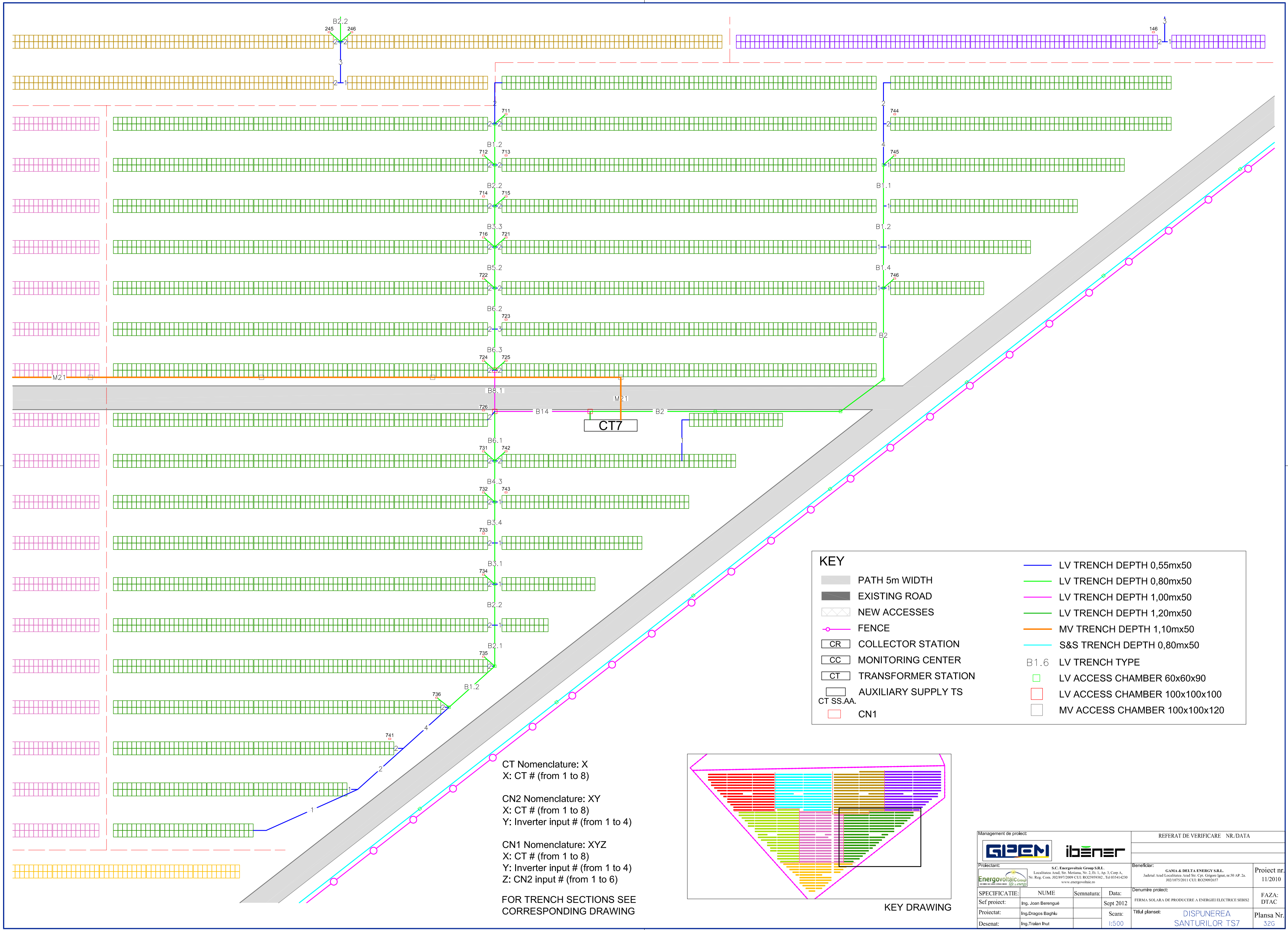
CN1 Nomenclature: XYZ
X: CT # (from 1 a 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



KEY DRAWING

| | | | | | | | |
|--|--|---------------------|------------|--|---|-------------|------------|
| Management de proiect: | | | | RAPORT DE VERIFICARE NR./DATA | | | |
| <div><div></div><div></div></div> | | | | | | | |
| Proiectant: | | | | Beneficiar: | | Proiect nr. | |
| <div><div></div><div><div>S.C. Energovalti Group SRL.</div><div>Localitatea Arad, Str. Melusina, nr. 2, bl. 1, Ap. 3, Corp. A, Nr. Reg. Com. RO238772009 CUI: RO235509382, Tel 035442320 www.energovalti.ro</div></div></div> | | | | GAMA & DELTA ENERGY SRL. | | 11/2010 | |
| | | | | Județul Arad Localitatea Arad Str. Cpt. Gîgireș Iugăz, nr.50 Ap. 2a, 1021075111111 CUI: RO254992657 | | | |
| SPECIFICATIE: | | NUME | Semnatura: | Data: | Denumire proiect: | | FAZA: |
| Seof proiect: | | Ing. Joao Berengueu | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SBIIS2 | | DTAC |
| Proiectat: | | Ing.Dragos Baghiu | | | Titlul planșei: | | Plansa Nr. |
| Desenat: | | Ing-Trălaan Ithor | | Scara: | DISPENAREA SANTURILOR TS6 | | 32F |



CT Nomenclature: X
X: CT # (from 1 to 8)

CN2 Nomenclature: XY
X: CT # (from 1 to 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 to 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING

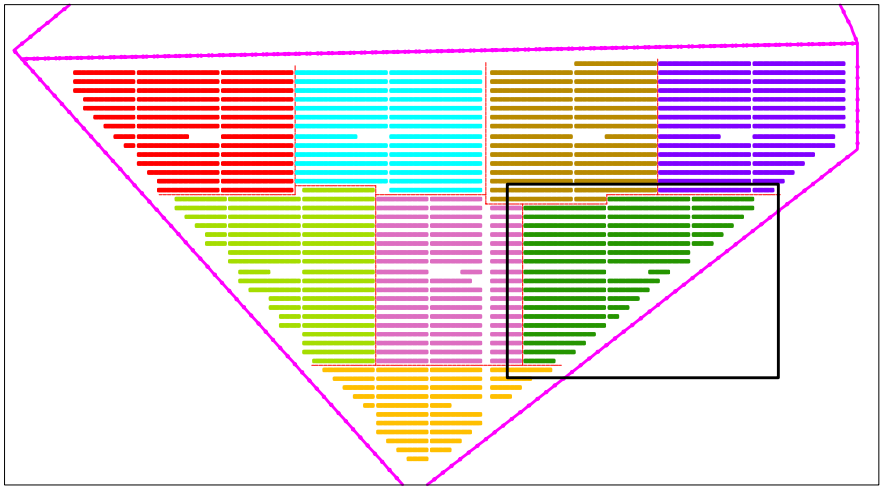
KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSSES
- FENCE
- COLLECTOR STATION
- MONITORING CENTER
- TRANSFORMER STATION
- AUXILIARY SUPPLY TS
- CT SS.AA.
- CN1

- LV TRENCH DEPTH 0,55mx50
- LV TRENCH DEPTH 0,80mx50
- LV TRENCH DEPTH 1,00mx50
- LV TRENCH DEPTH 1,20mx50
- MV TRENCH DEPTH 1,10mx50
- S&S TRENCH DEPTH 0,80mx50

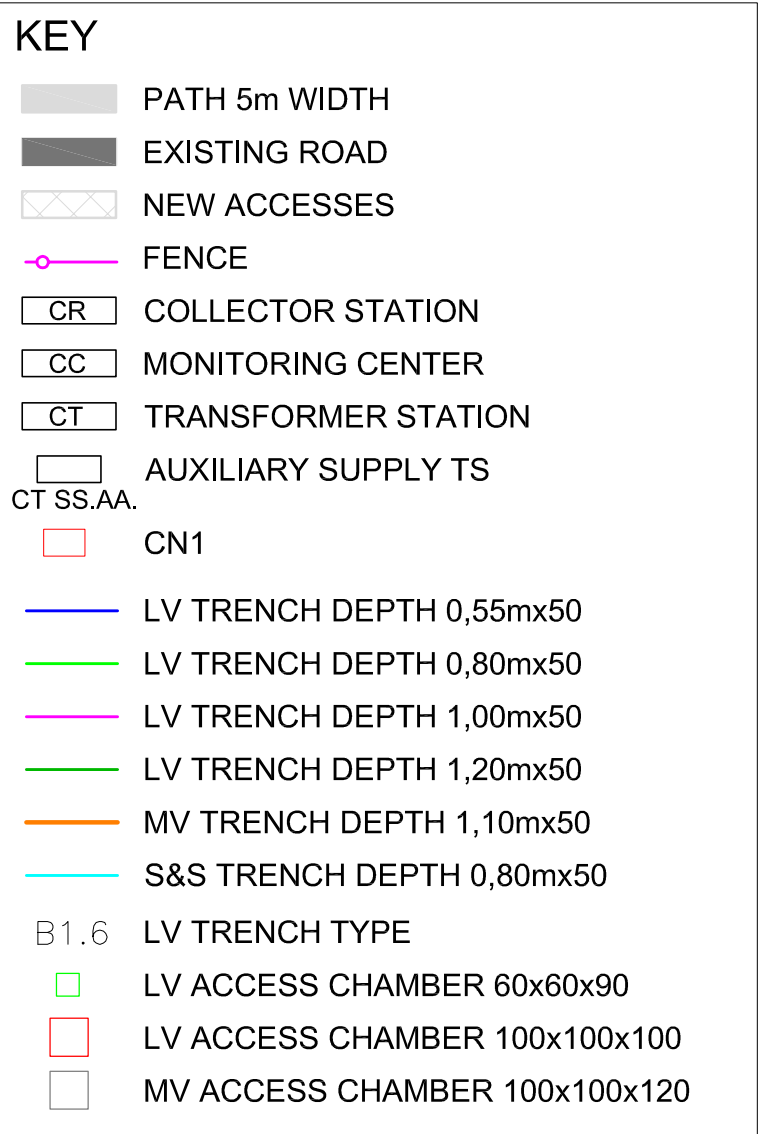
B1.6 LV TRENCH TYPE

- LV ACCESS CHAMBER 60x60x90
- LV ACCESS CHAMBER 100x100x100
- MV ACCESS CHAMBER 100x100x120



KEY DRAWING

| | | | | | |
|---|--|--|--|--|-------------|
| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
| | | | | | |
| Proiectant: S.C. Energovoltaic Group S.R.L. Localitatea Arad, Str. Metania, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. 202/987/2009 C.U.I. RO2969392, T. 035414230 www.energovoltaic.ro | | | | Beneficiar: | Proiect nr. |
| | | | | GAMA & DELTA ENERGY S.R.L. Județul Arad Localitatea Arad Str. Cpt. Grigore Igaț, nr.50 AP. 2a. 202/1075/2011 C.U.I. RO29692657 | 11/2010 |
| SPECIFICATIE: | | | | Denumire proiect: | FAZA: |
| Scf proiect: Ing. Joan Berengue | | | | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SERBIS | DTAC |
| Proiectat: Ing.Dragos Baghiu | | | | Scara: | Plansa Nr. |
| Desenat: Ing.Trăian Iltut | | | | Titlul planșei: DISPUNEREA SANTURILOR TS7 | 326 |
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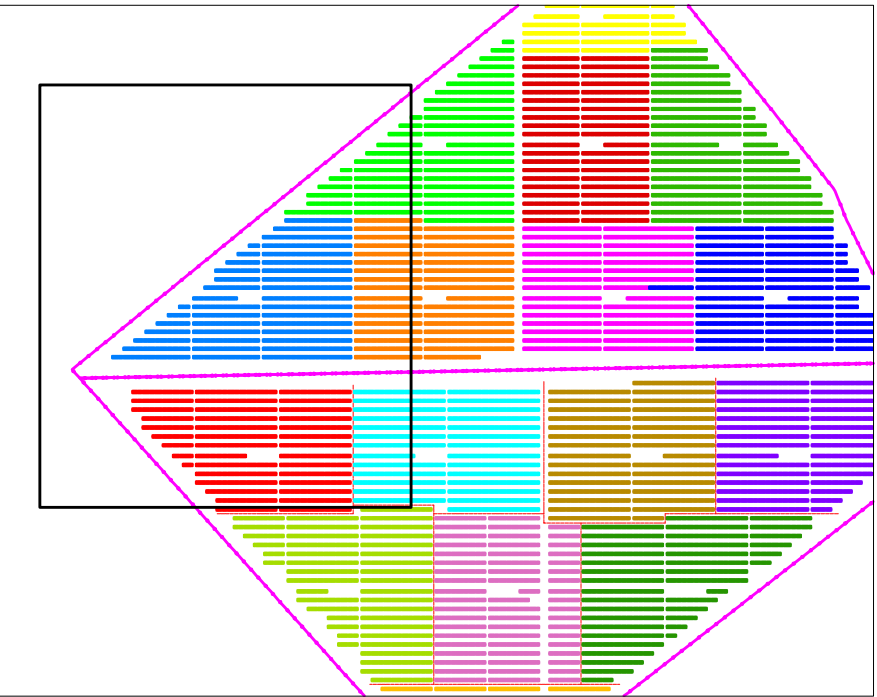


CT Nomenclature: X
X: CT # (from 1 to 8)




CN2 Nomenclature: XY
X: CT # (from 1 to 8)
Y: Inverter input # (from 1 to 4)

CN1 Nomenclature: XYZ
X: CT # (from 1 to 8)
Y: Inverter input # (from 1 to 4)
Z: CN2 input # (from 1 to 6)

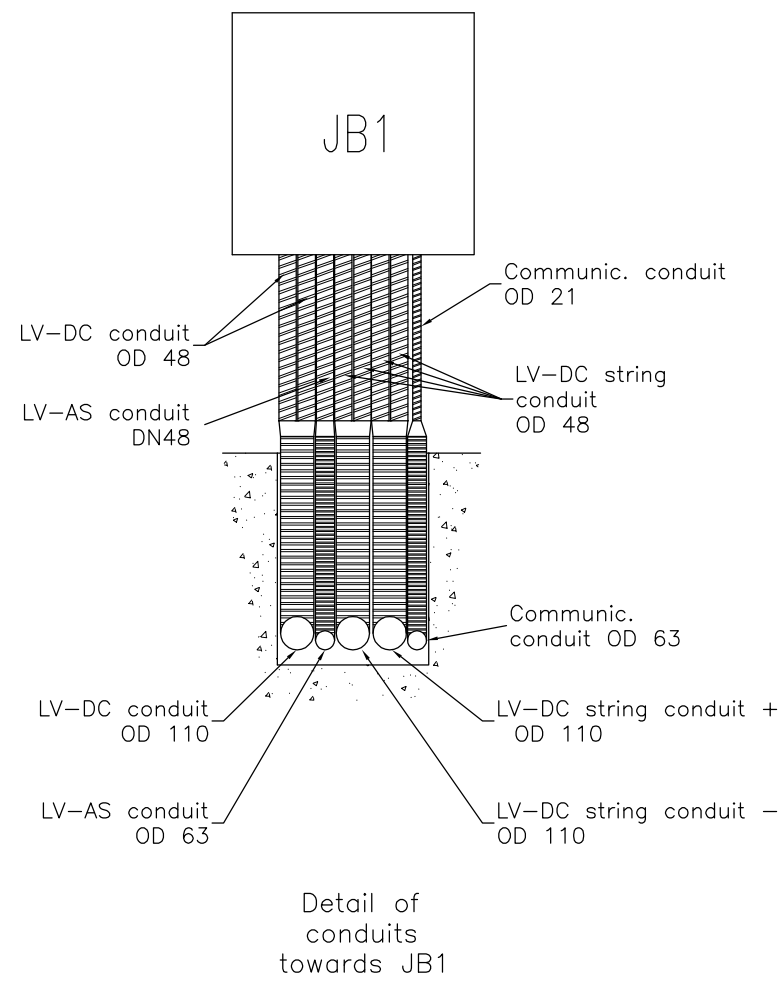
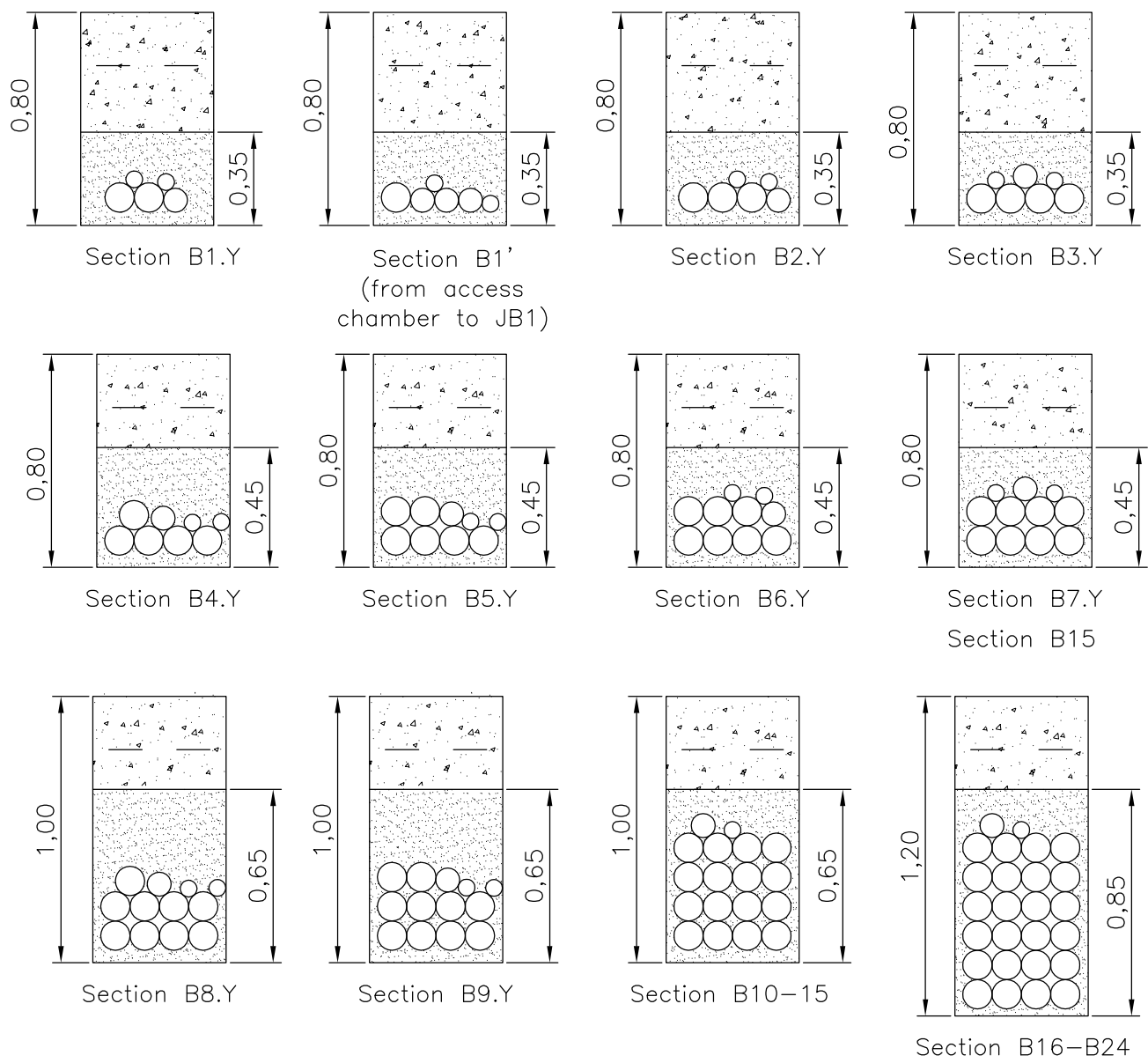
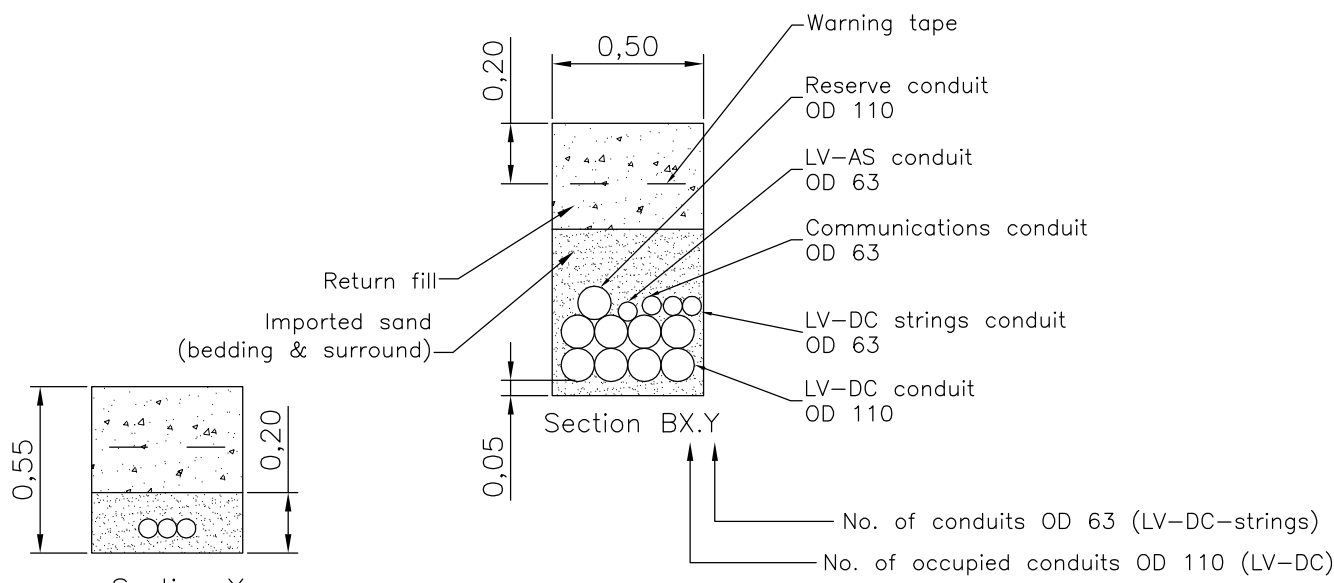
FOR TRENCH SECTIONS SEE
CORRESPONDING DRAWING



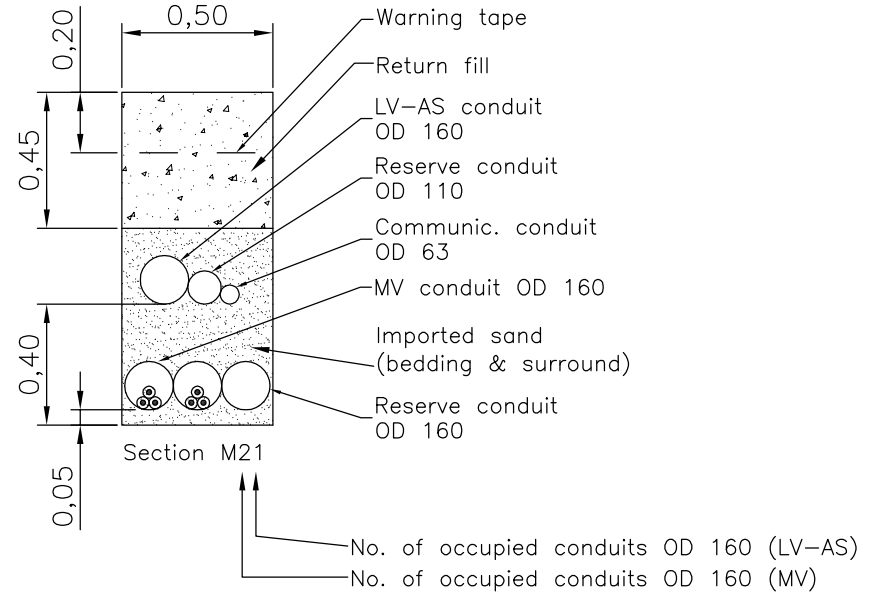
KEY DRAWING

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| Proiect nr. 11/2010 | | | | | |
| SPECIFICATIE: NUME Ser proiect: Ing. Joan Berengueu Proiectat: Ing.Dragos Baghiu Desenat: Ing.Traian Iu | | Semnatura: Data: Sept 2012 Scara: 1:1000 | | Denumire proiect: FAZA: Titul planșei: DISPUNEREA SANTURILOR AUXILIARE Planșă Nr. 321 | |

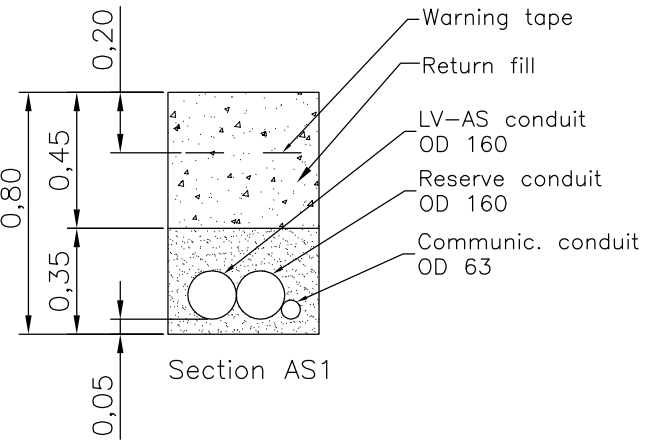
LV TRENCH



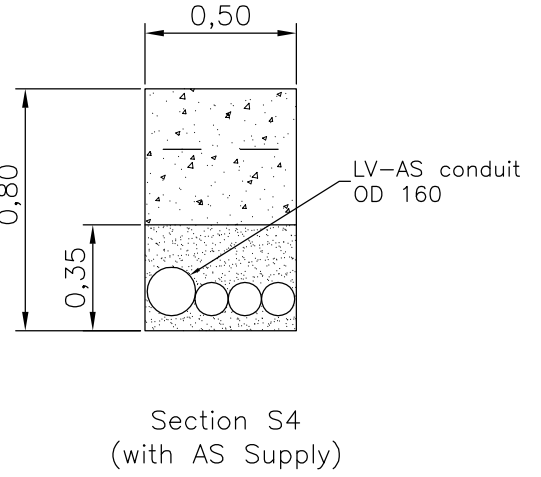
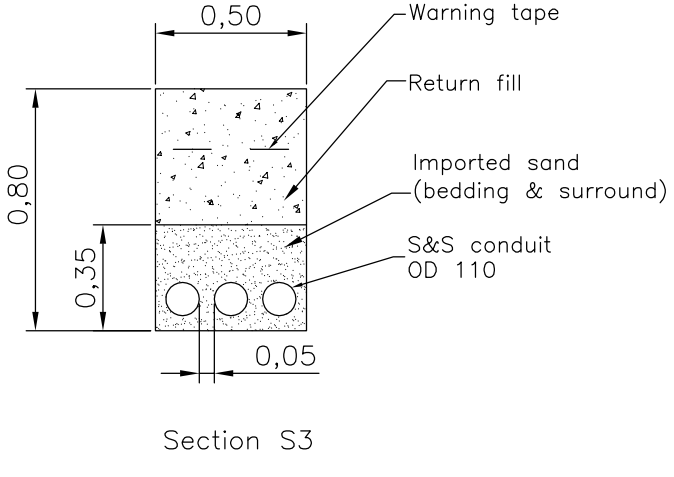
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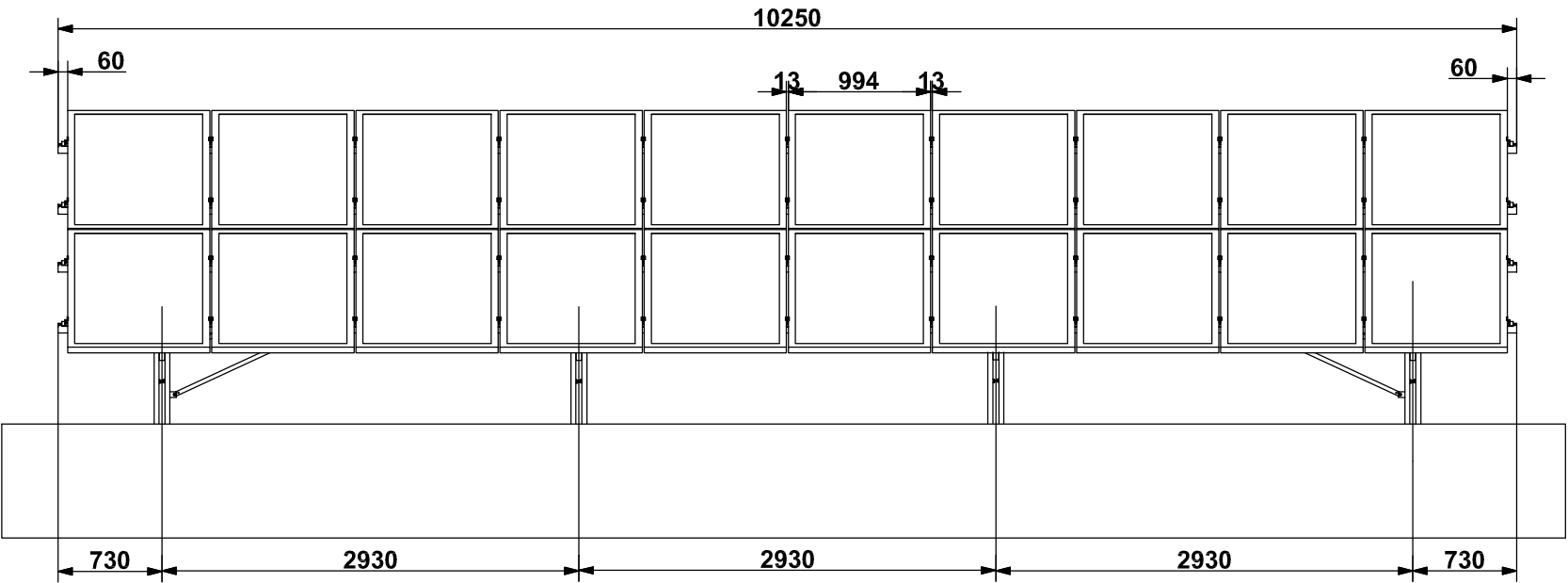
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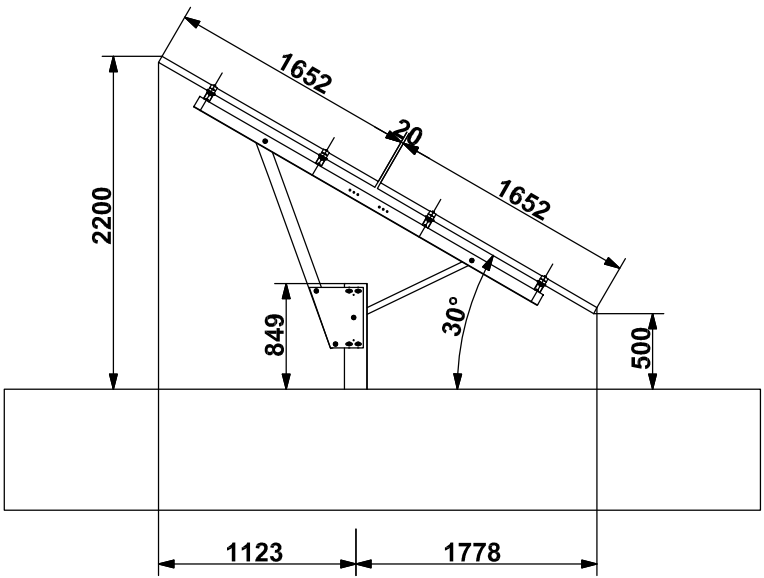
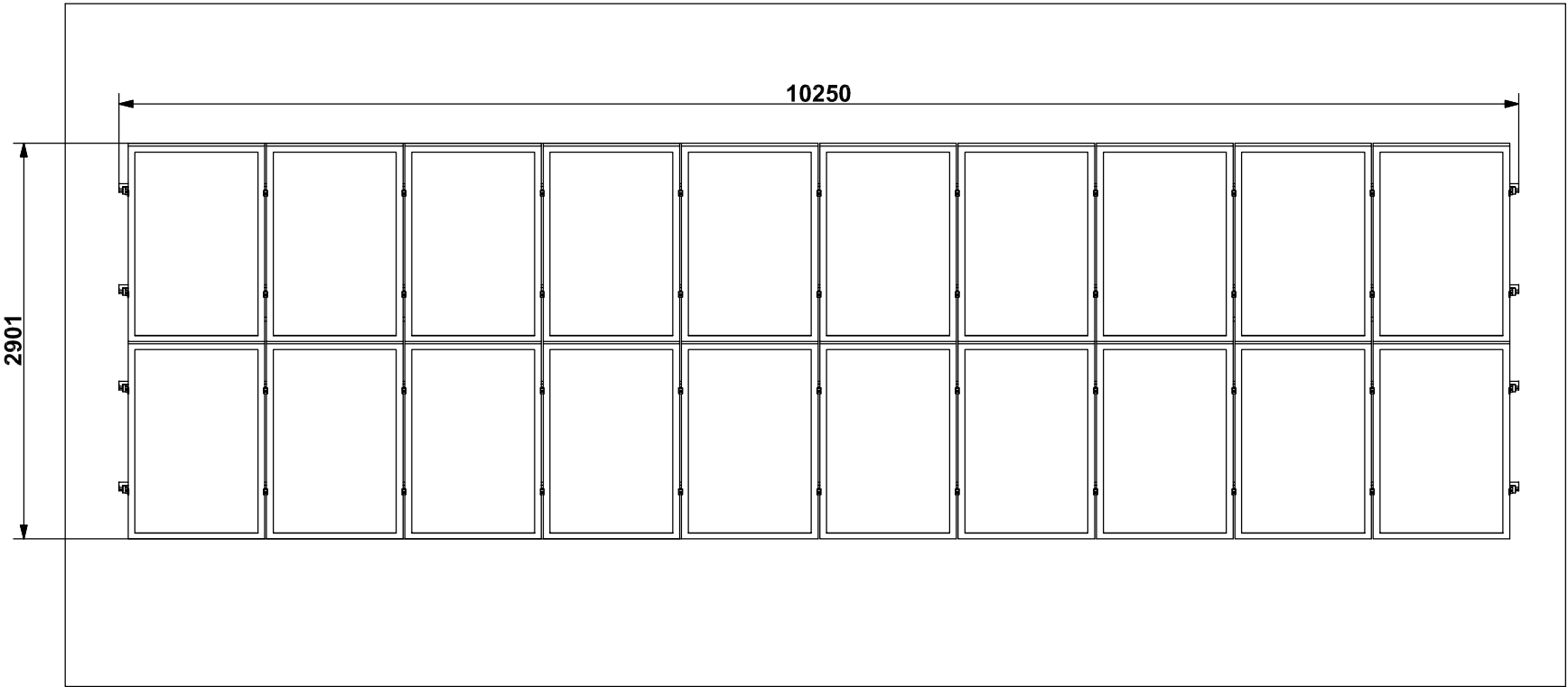
SURVEILLANCE & SECURITY TRENCH





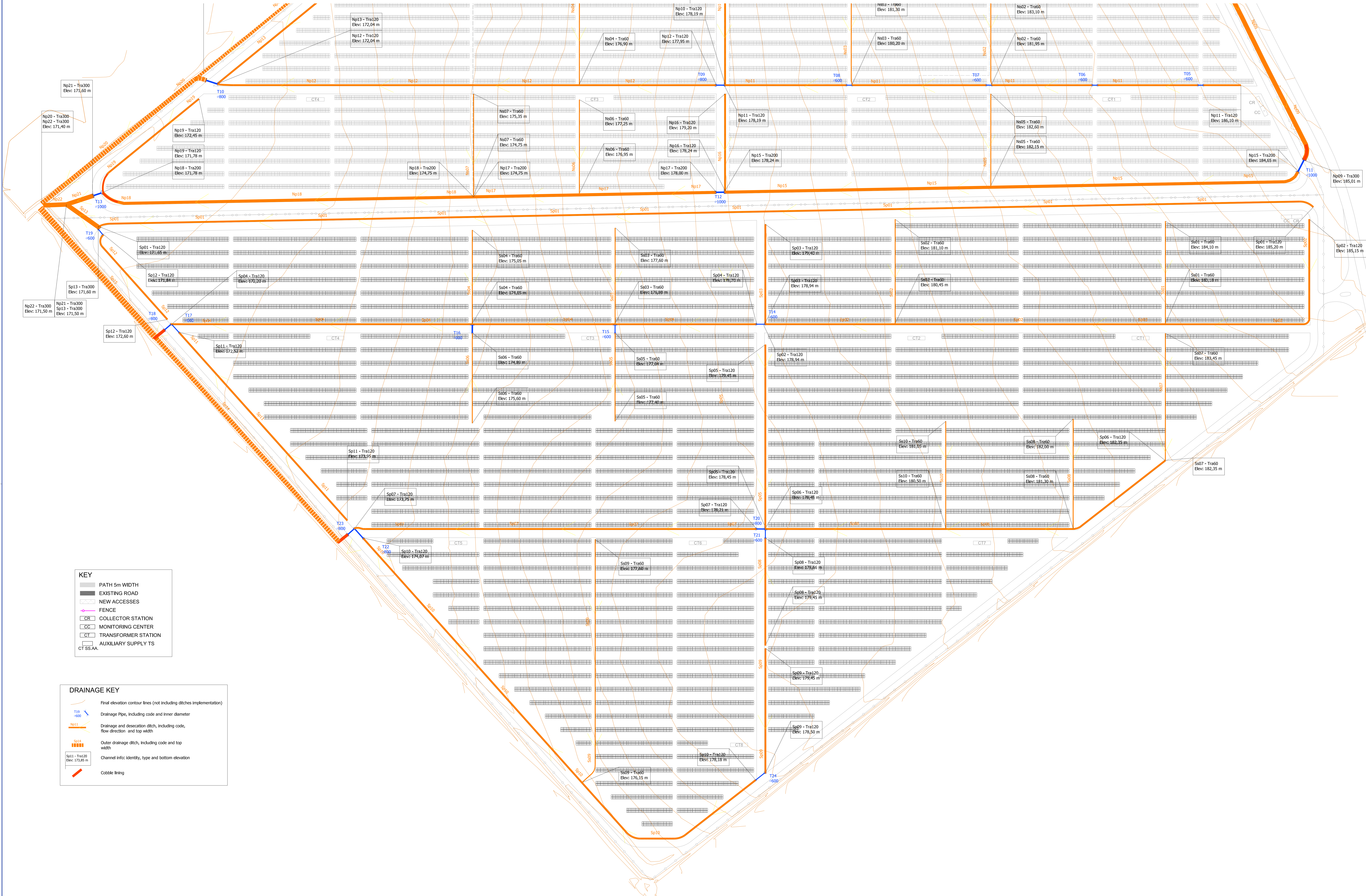
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| Management de proiect: | | | | REFERAT DE VERIFICARE NR./DATA | |
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| Proiectant: | S.C. Energovoltai Group S.R.L., Localitatea Arad, Str. Melina, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. 302/9972009 CUI: RO25959382, Tel 05414230 www.energovoltaic.ro | | | Beneficiar: | Proiect nr. |
| | | | | GAMA & DELTA ENERGY S.R.L., Județul Arad Localitatea Arad Str. Cpt. Grigore Ighat, nr.50 AP. 2a, 302/1075/2011 CUI: RO29992657 | 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: | FAZA: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBS2 | DTAC |
| Proiectat: | Ing.Dragos Baghici | | | Scara: | Titlul planșei |
| Desenat: | Ing.Trăian Iltut | | 1:25 | SECTIUNE SANT | Plansa Nr. |
| | | | | | 32J |



(1 : 50)



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| Proiectant: S.C. Energovoltaic Group S.R.L. Localitatea Arad, Str. Meisnu, Nr. 2, Et. 1, Ap. 3, Corp. A. Nr. Reg. Com. J02/897/2009 CUI: RO25959382, Tel 035414230 www.energovoltaic.ro | | | | Beneficiar: S.C. DELTA & ZETA ENERGY S.R.L. Judetul Arad Localitatea Arad Str. Cpt. Grigore Ignat, nr.50 AP. 2a. J02/1074/2011 CUI: RO29092649 | Proiect nr. 10/2010 |
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| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBIS | DTAC |
| Proiectat: | Ing.Dragos Baghiu | | Scara: | Titlul plansei: MODUL DE MONTARE A | Plansa Nr. |
| Desenat: | Ing.Traian Ihut | | 1:25 | STRUCTURII | 34 |






KEY

- PATH 5m WIDTH
- EXISTING ROAD
- NEW ACCESSES
- FENCE
- COLLECTOR STATION
- MONITORING CENTER
- TRANSFORMER STATION
- AUXILIARY SUPPLY TS

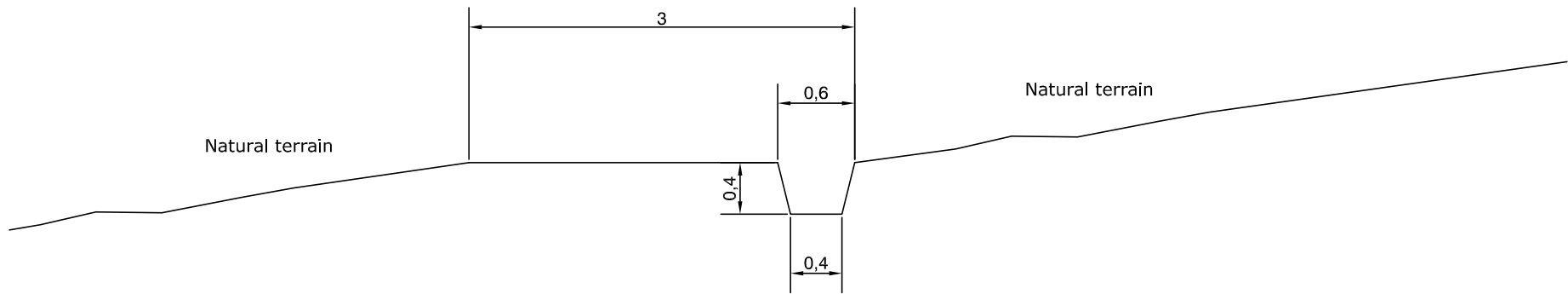
DRAINAGE KEY

- Final elevation contour lines (not including ditches implementation)
- Drainage Pipe, Including code and inner diameter
- Drainage and desecation ditch, Including code, flow direction and top width
- Outer drainage ditch, Including code and top width
- Channel info: identity, type and bottom elevation
- Cobble lining

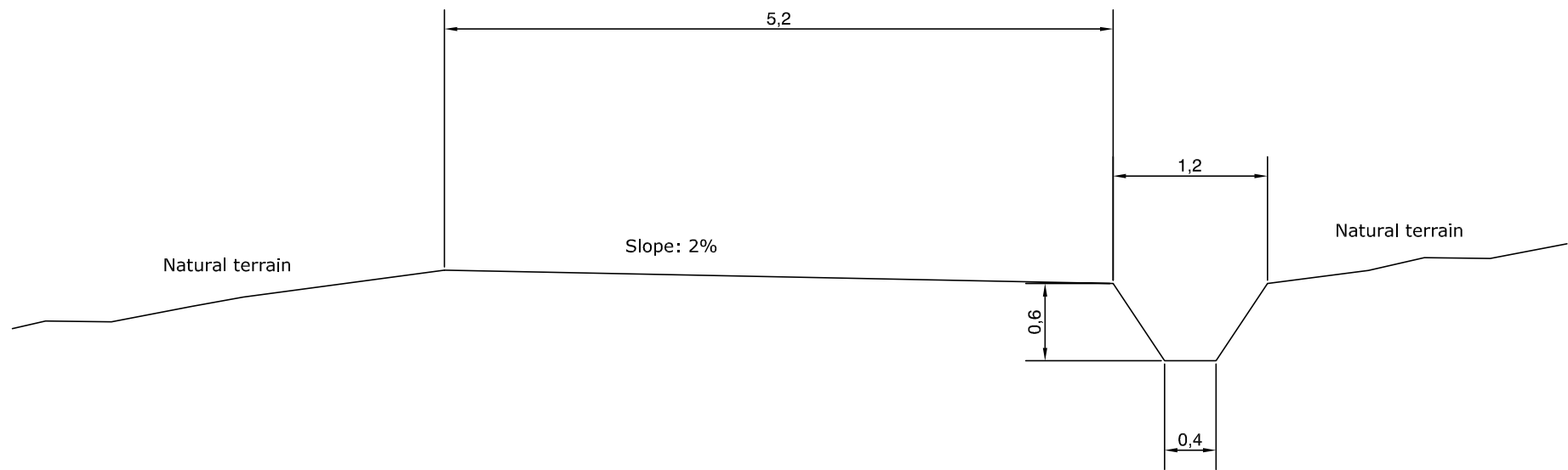
FOR DITCH AND PIPING DETAILS
SEE CORRESPONDING DRAWING

| | | | | | | | |
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| Management de proiect: | | | | RETRAT DE VERIFICARE NR. DATA | | | |
|  | |  | | | | | |
| Proiectat: | | Energosystem Group SRL Localitate: Buză, Strada Nr. 2, B. 1, Corp. A No. 14, Tel: 0238 200999, Fax: 0238 200998, 0238 200999 No. 14, Tel: 0238 200999, Fax: 0238 200998, 0238 200999 | | Verificat: | | GAMA A BULEI ENERGETICE Industria Auto Localitate: Nr. 14, Corp. A, Strada Nr. 2, B. 1, Corp. A No. 14, Tel: 0238 200999, Fax: 0238 200998, 0238 200999 | |
|  | | | | | | Proiectat de 11/2010 | |
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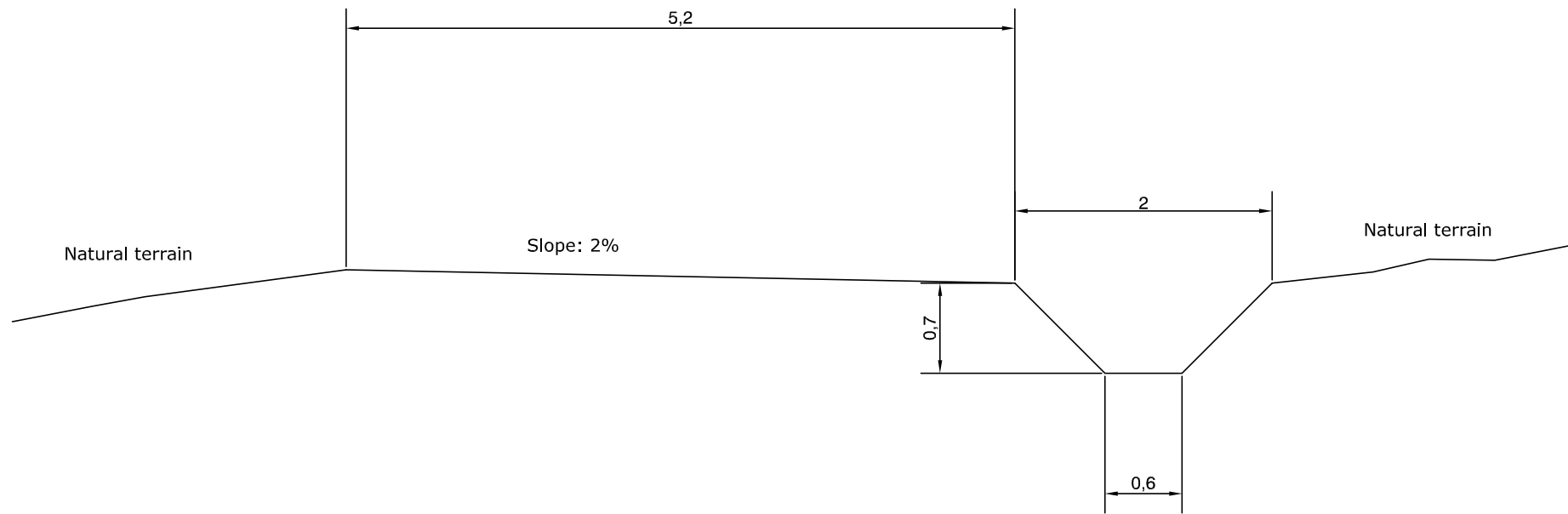
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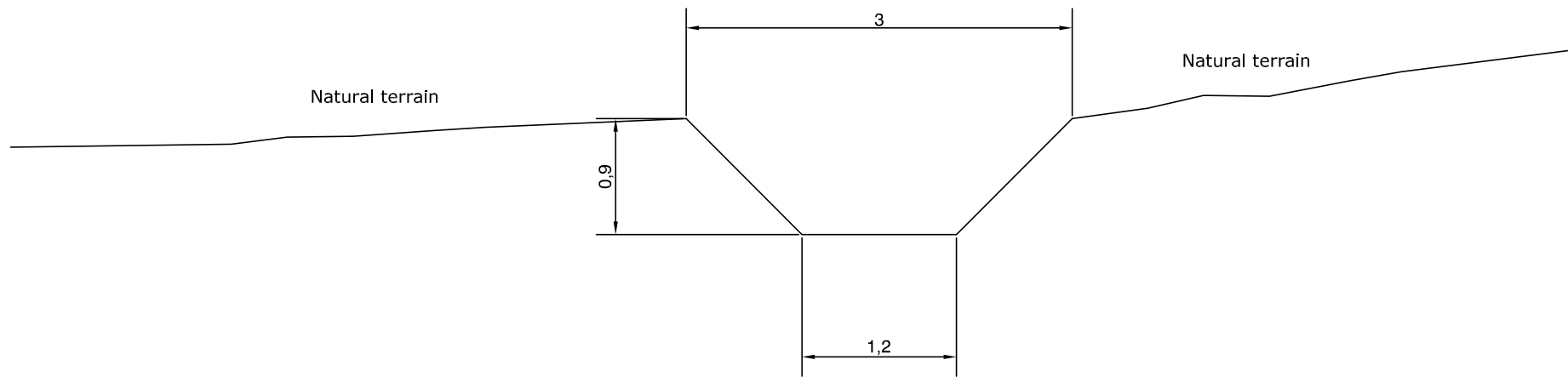
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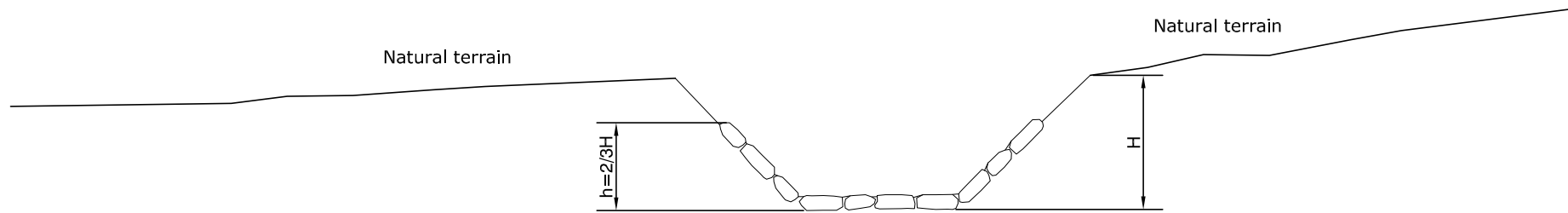
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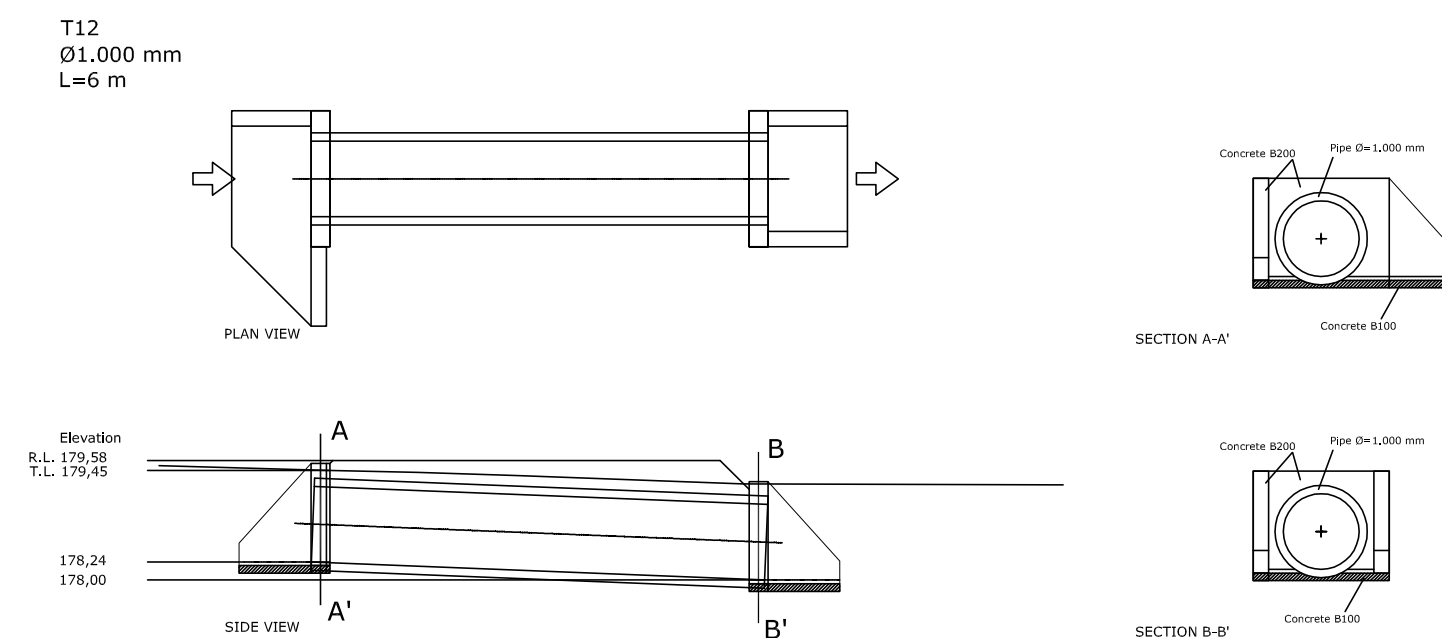
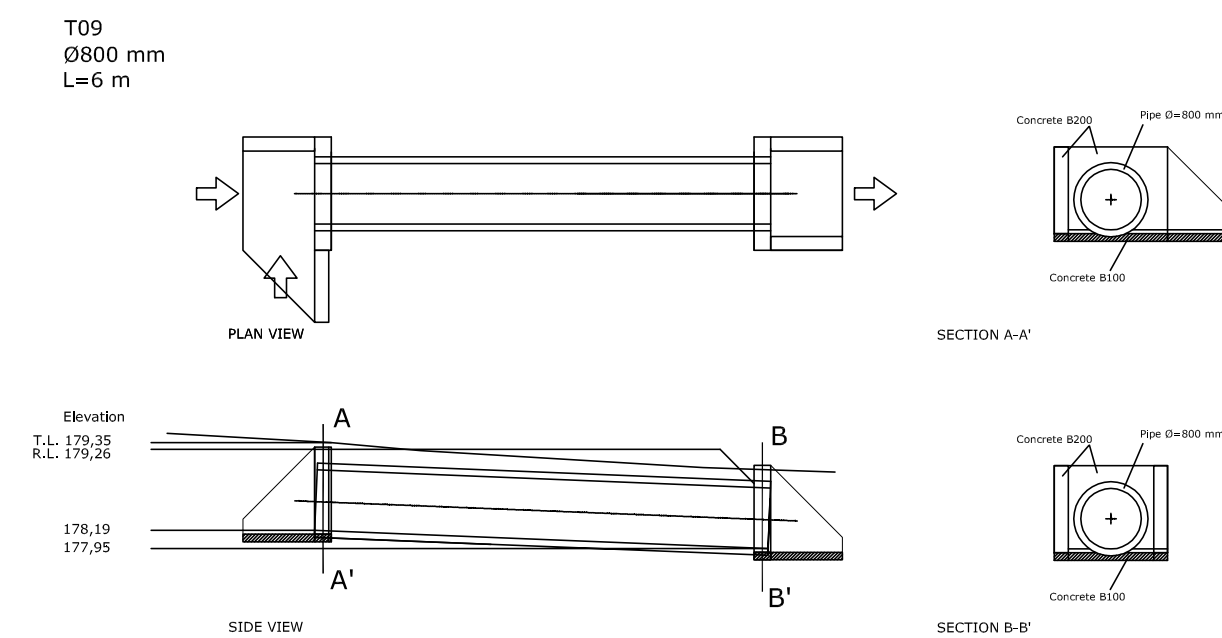
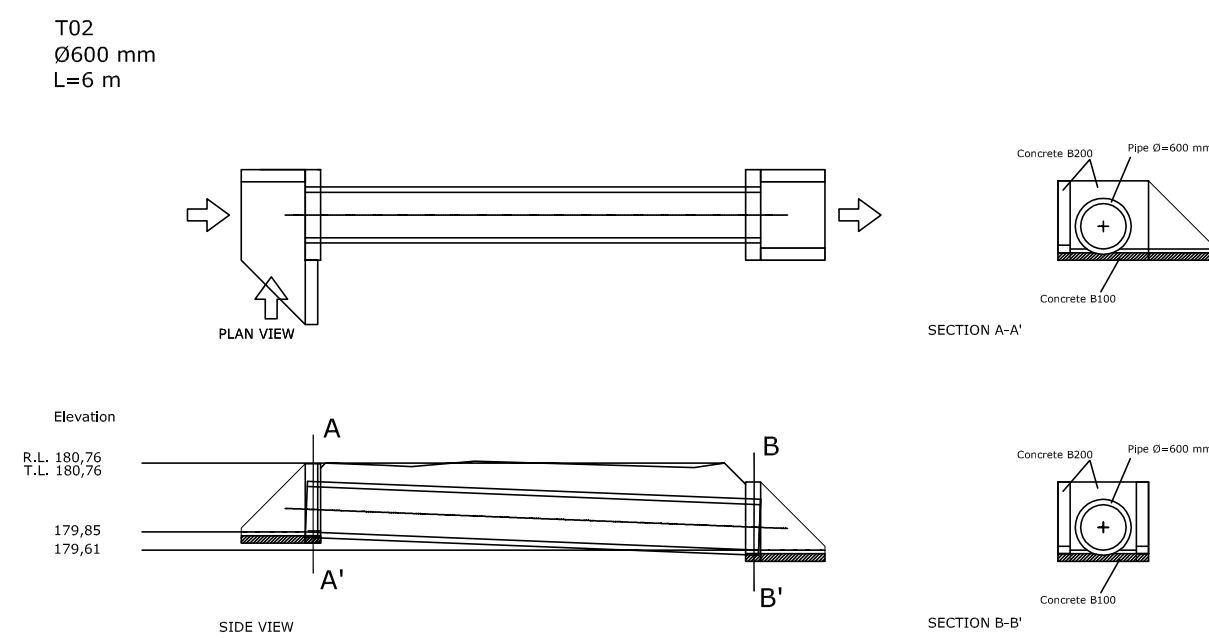
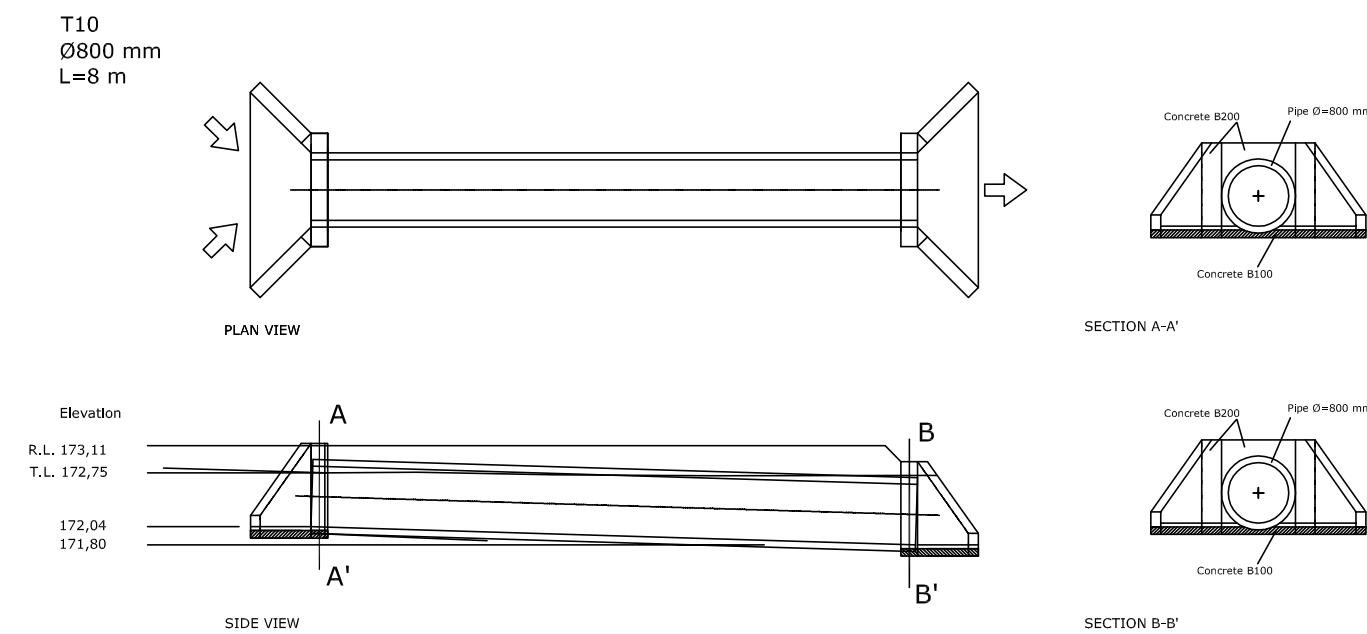
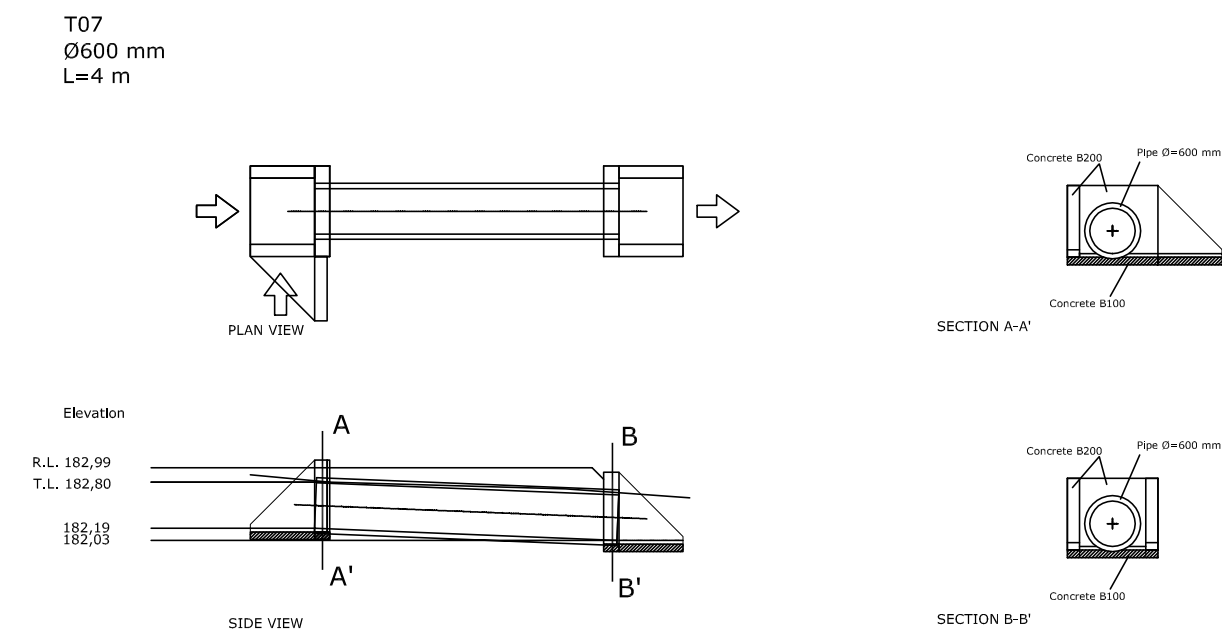
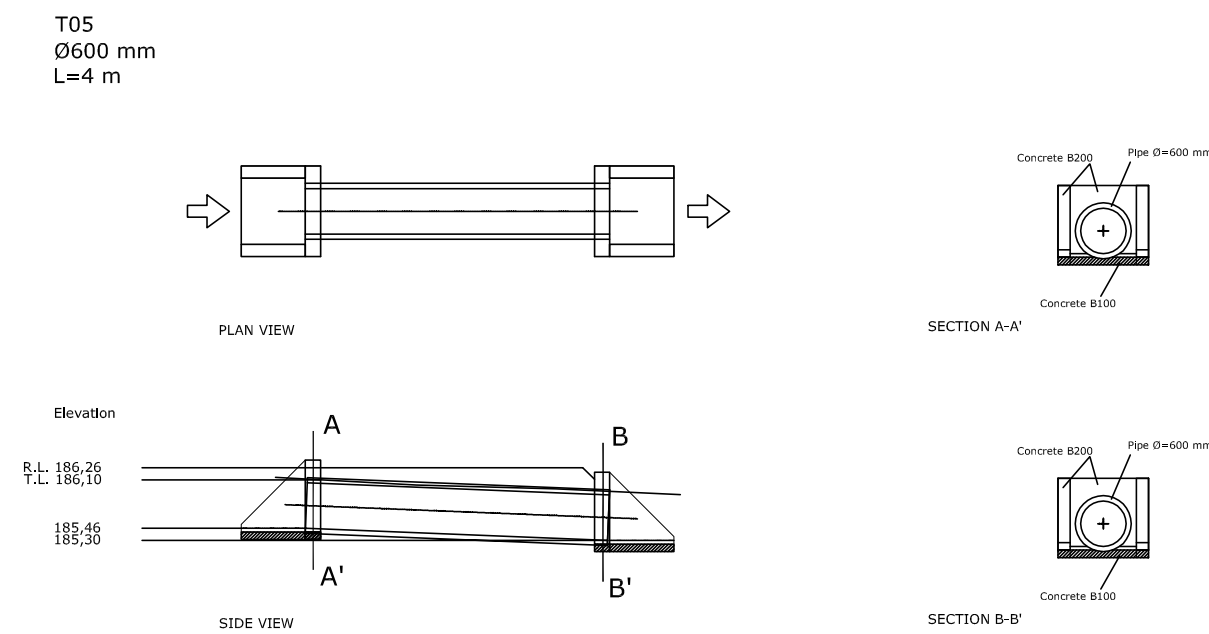
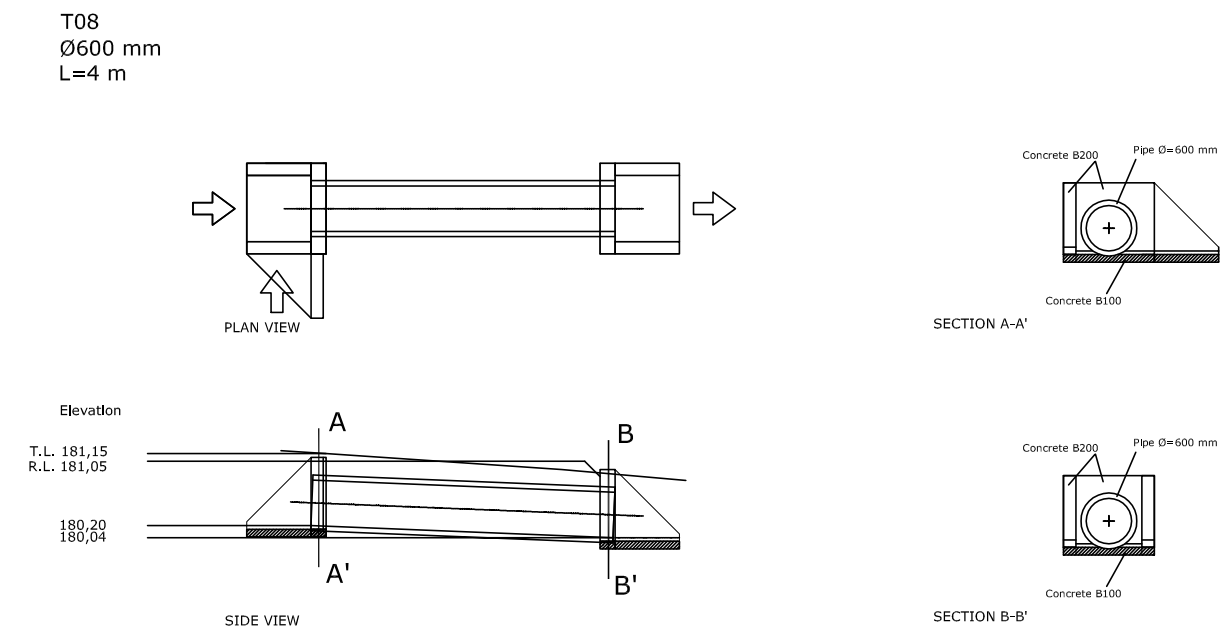
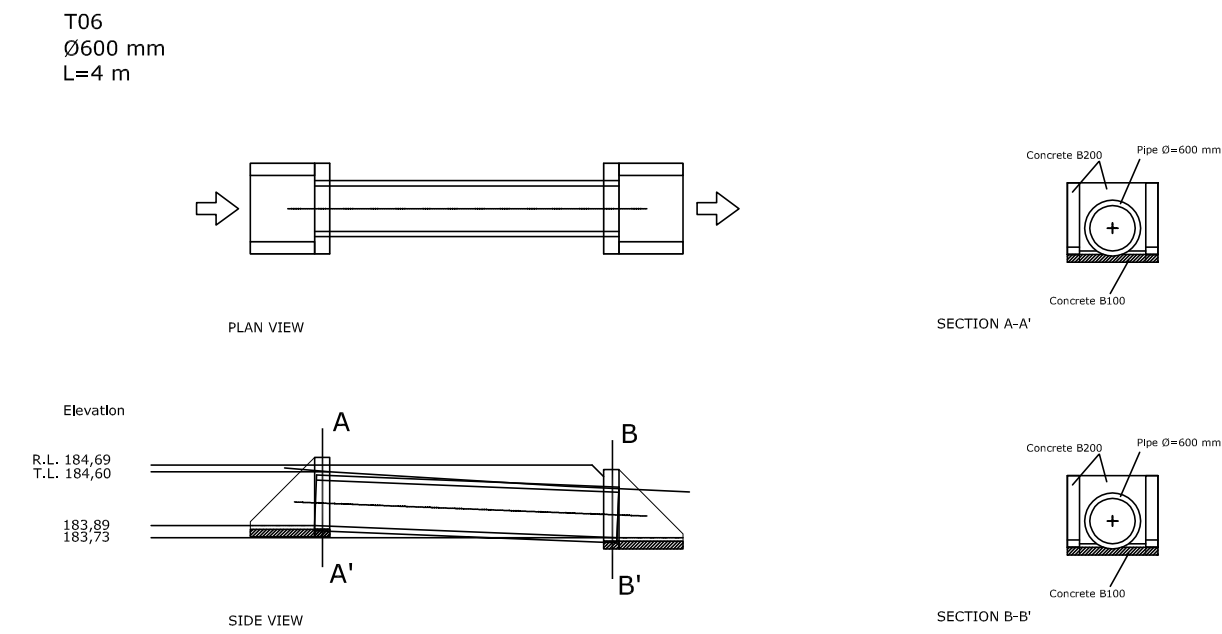
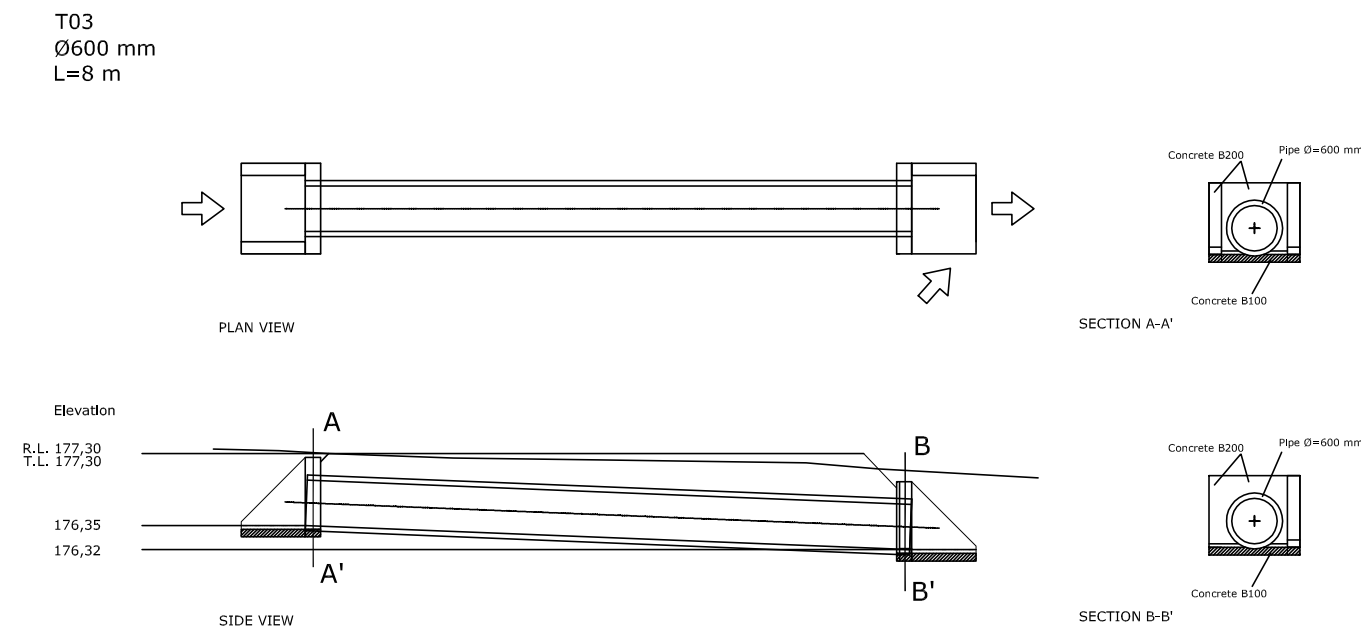
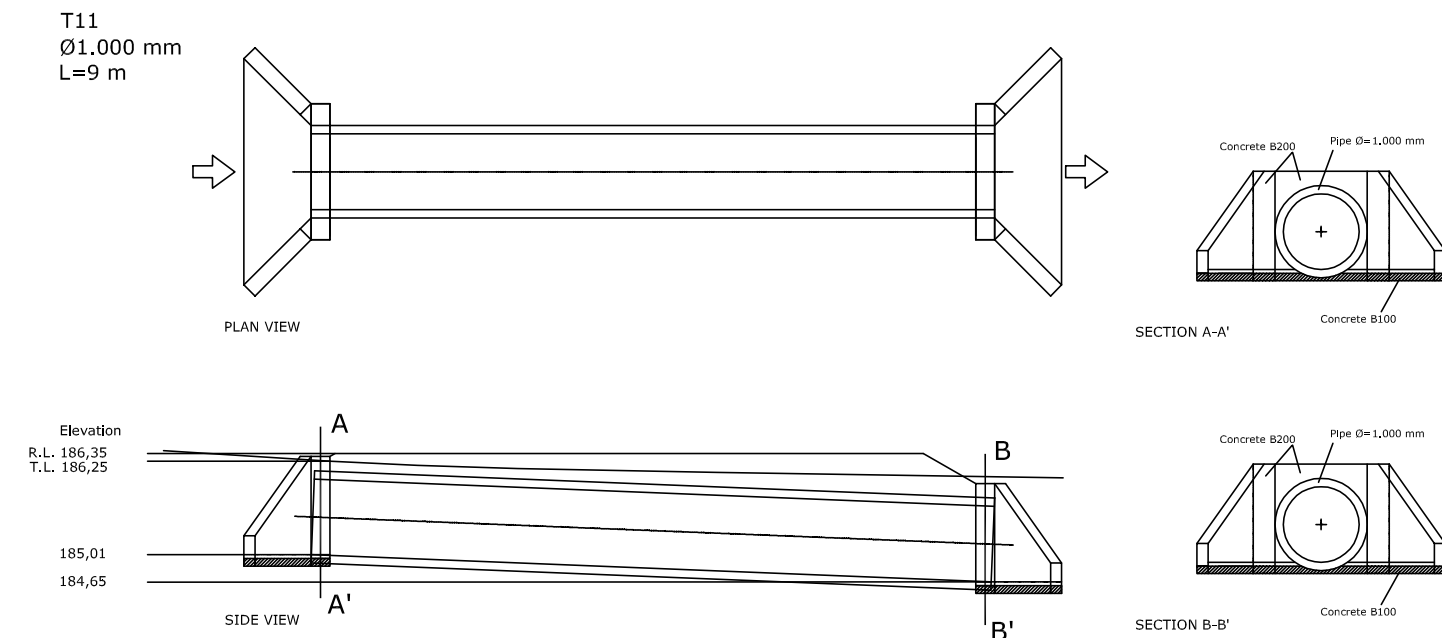
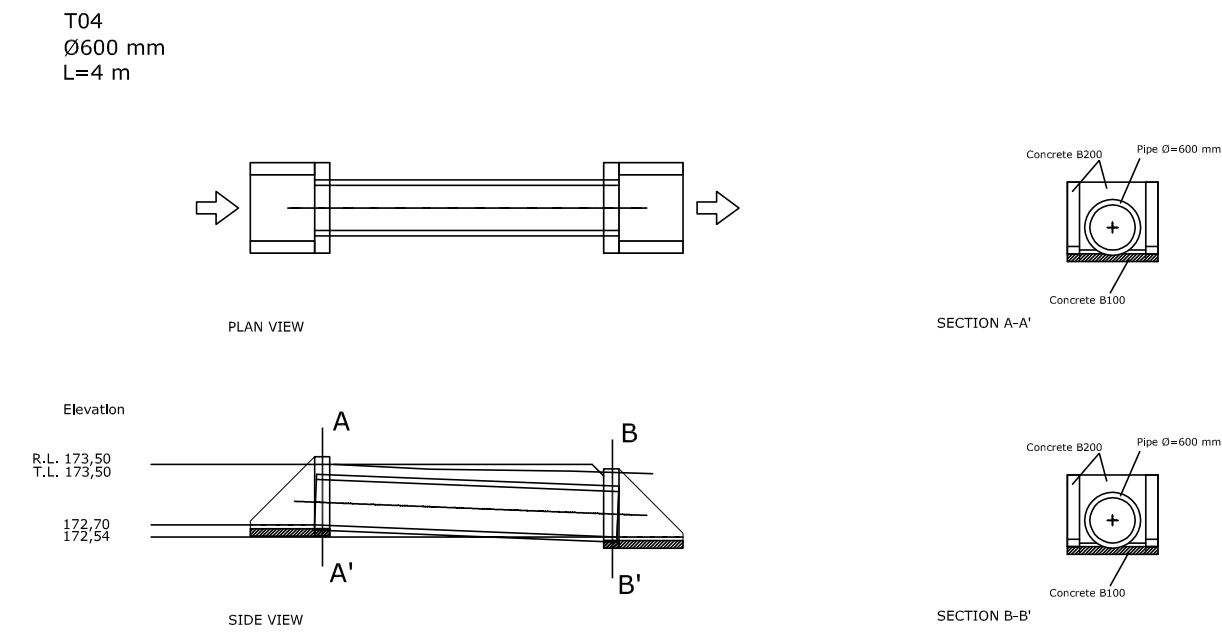
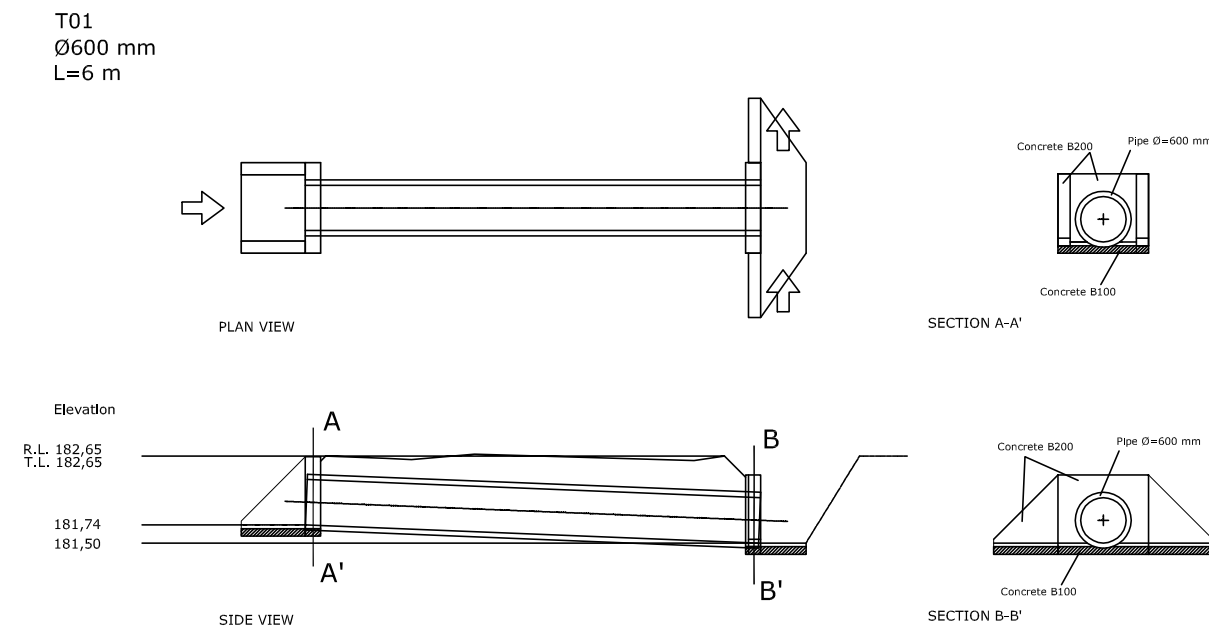
Ditch type Tra300



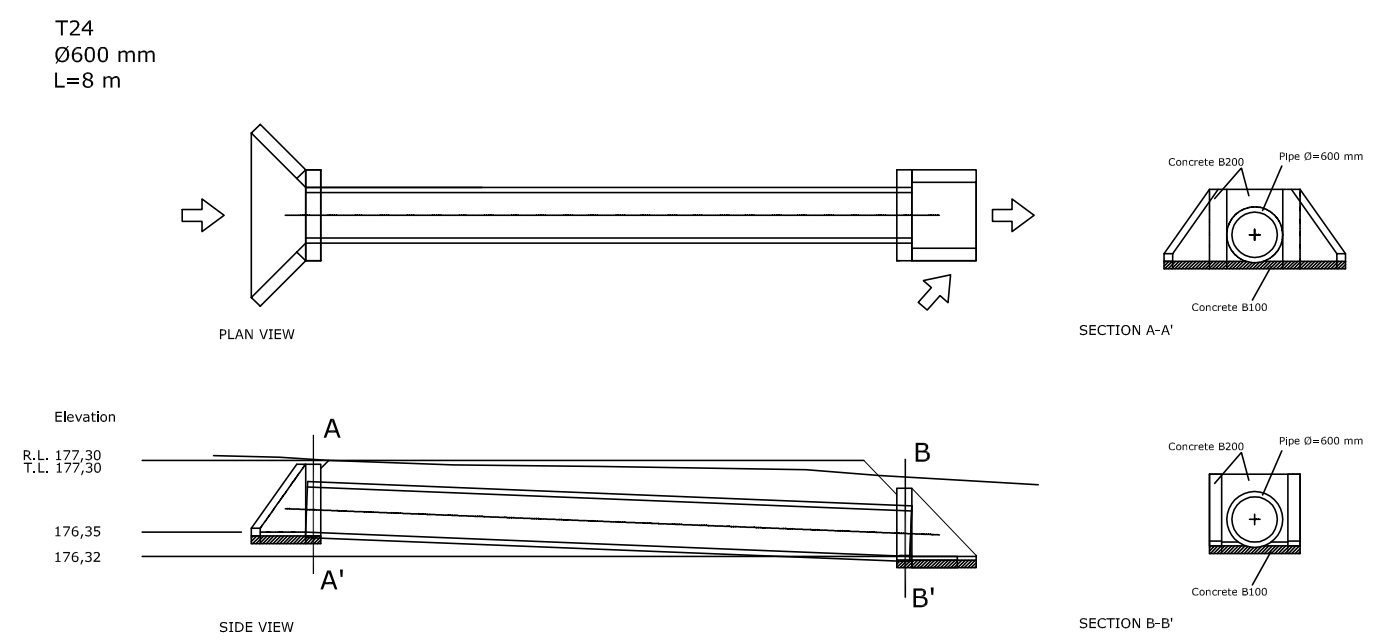
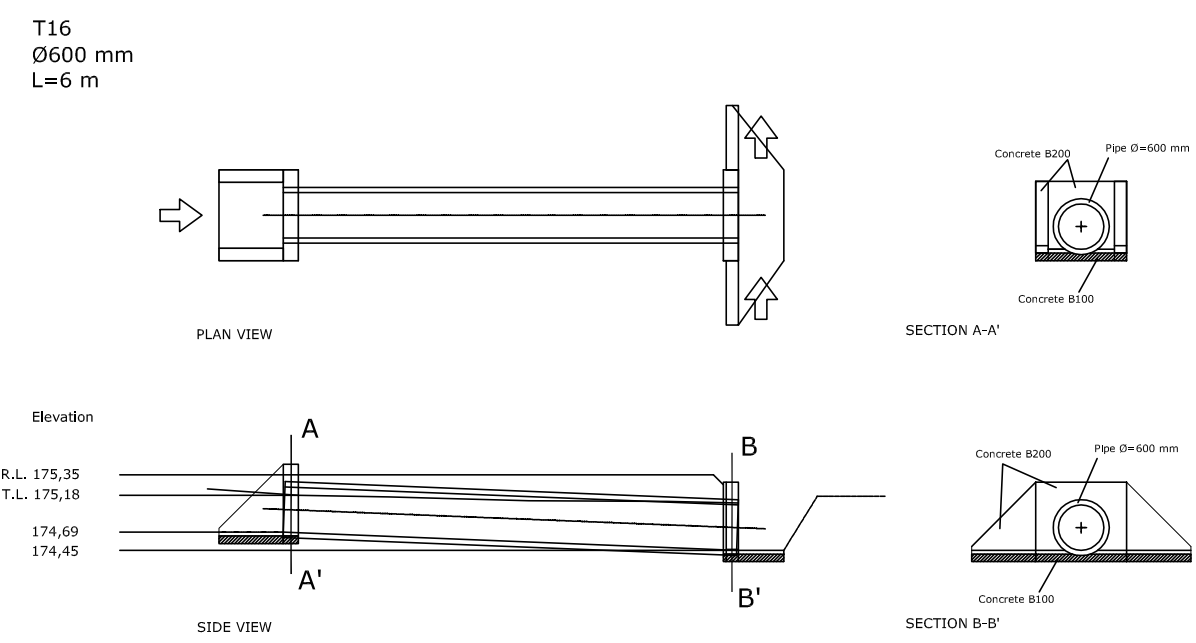
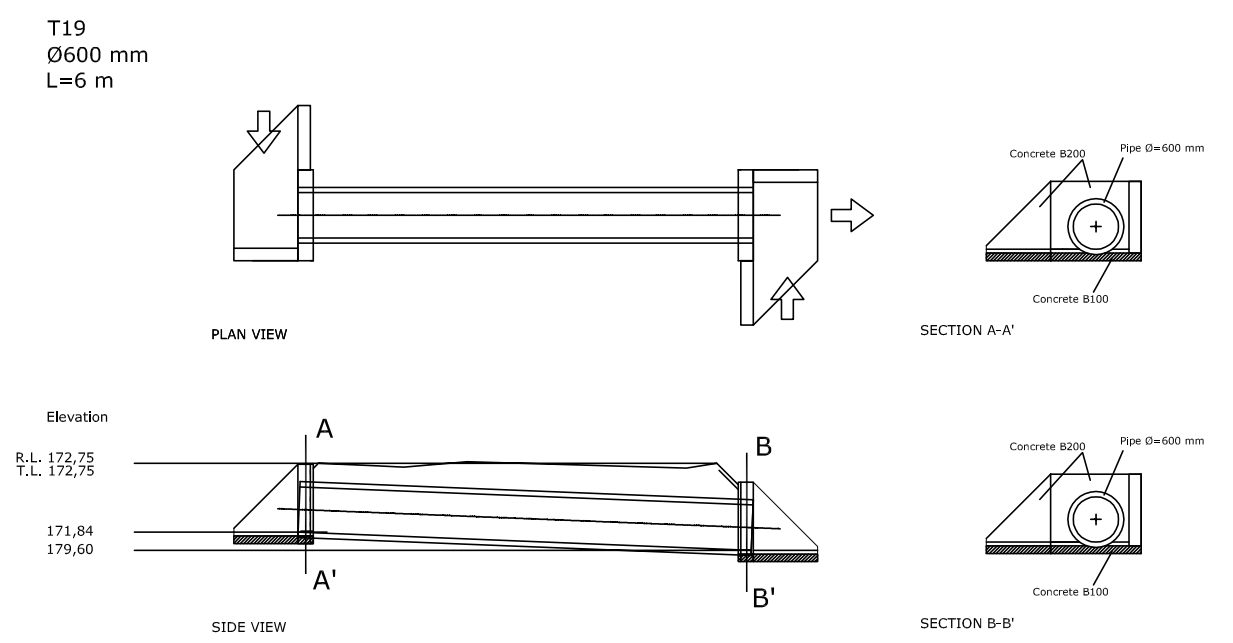
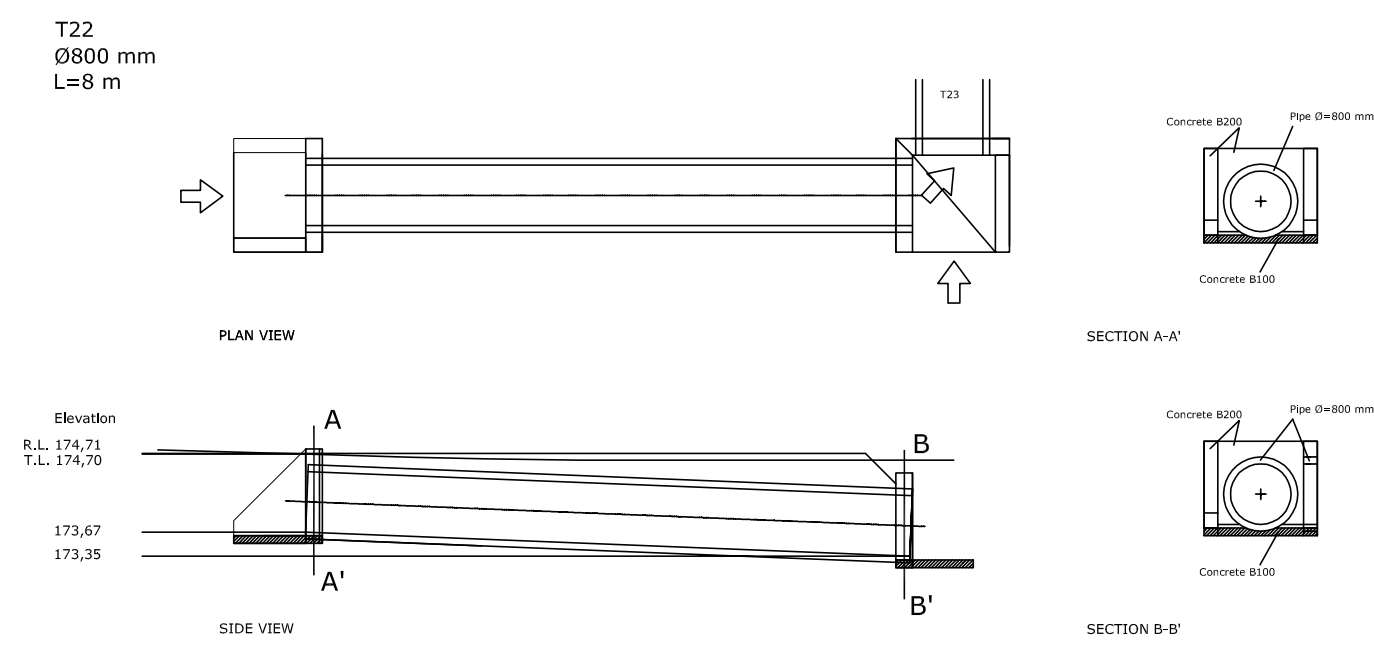
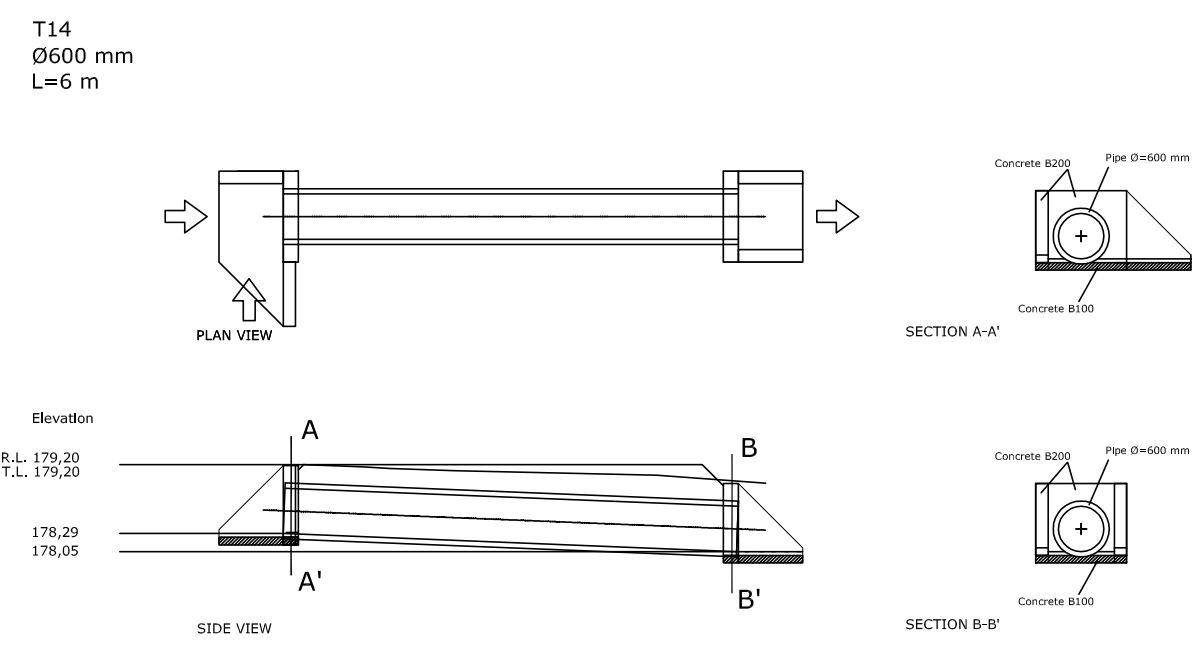
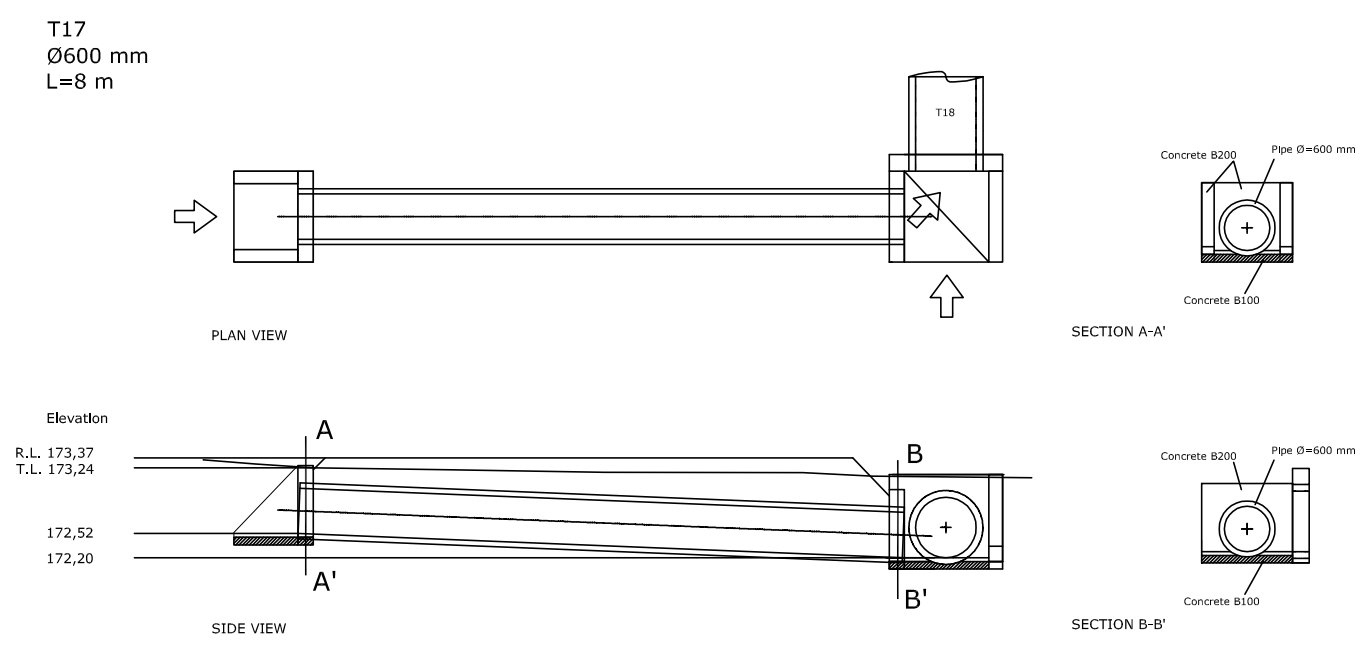
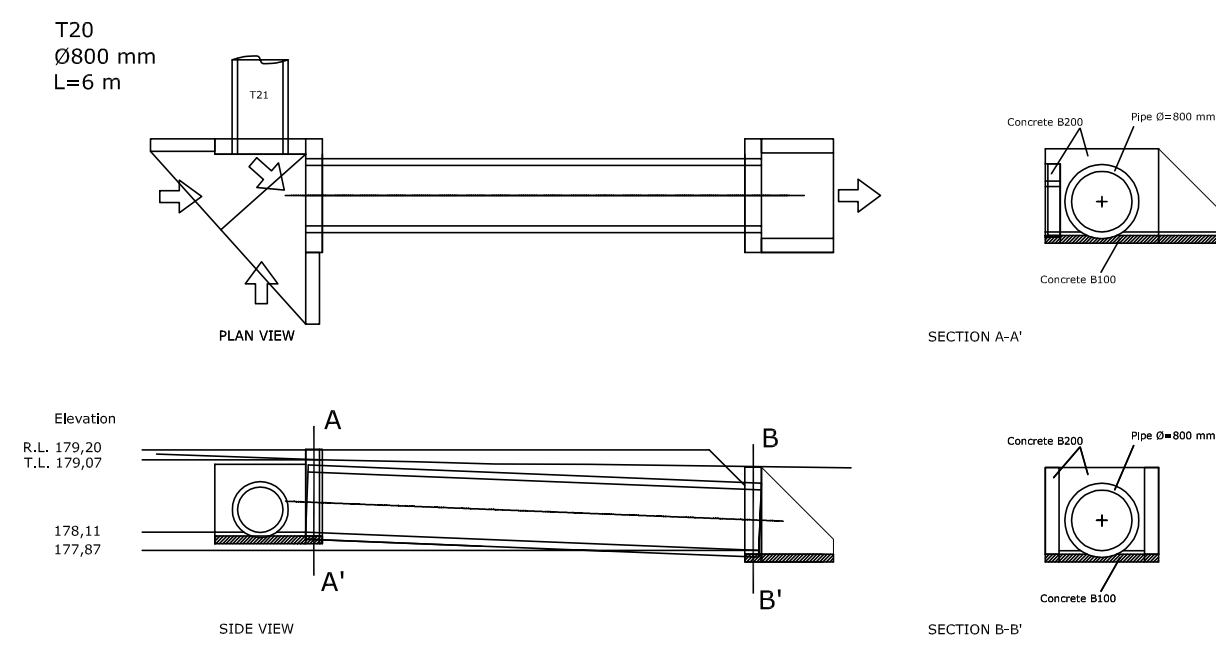
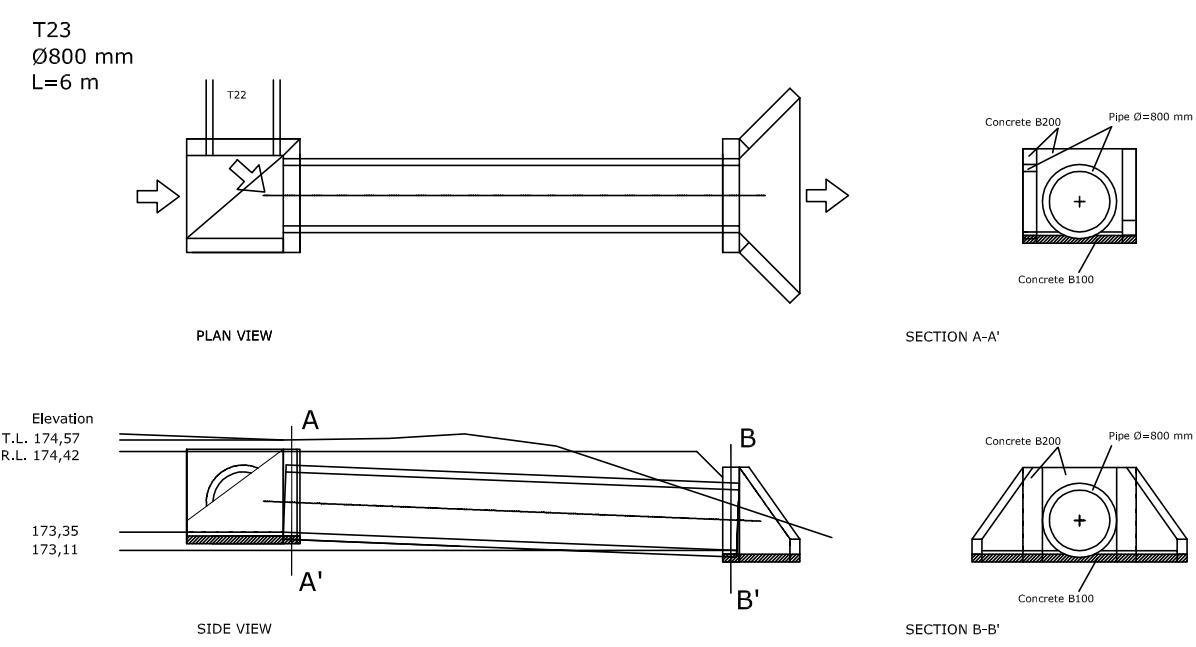
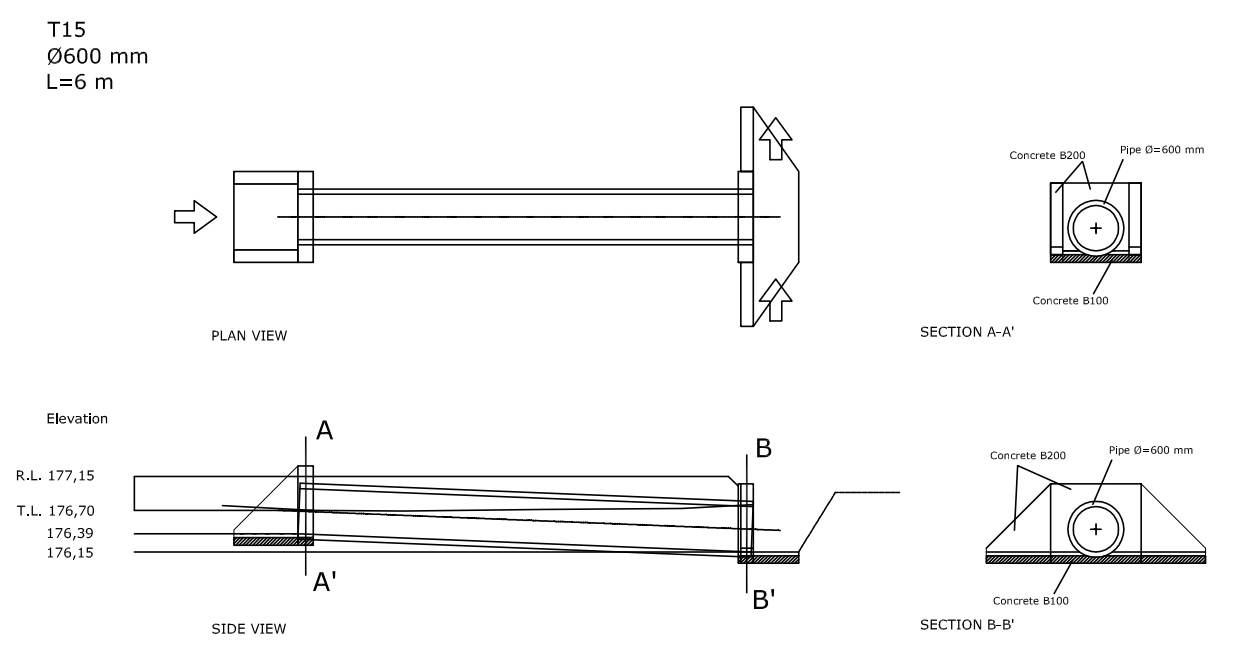
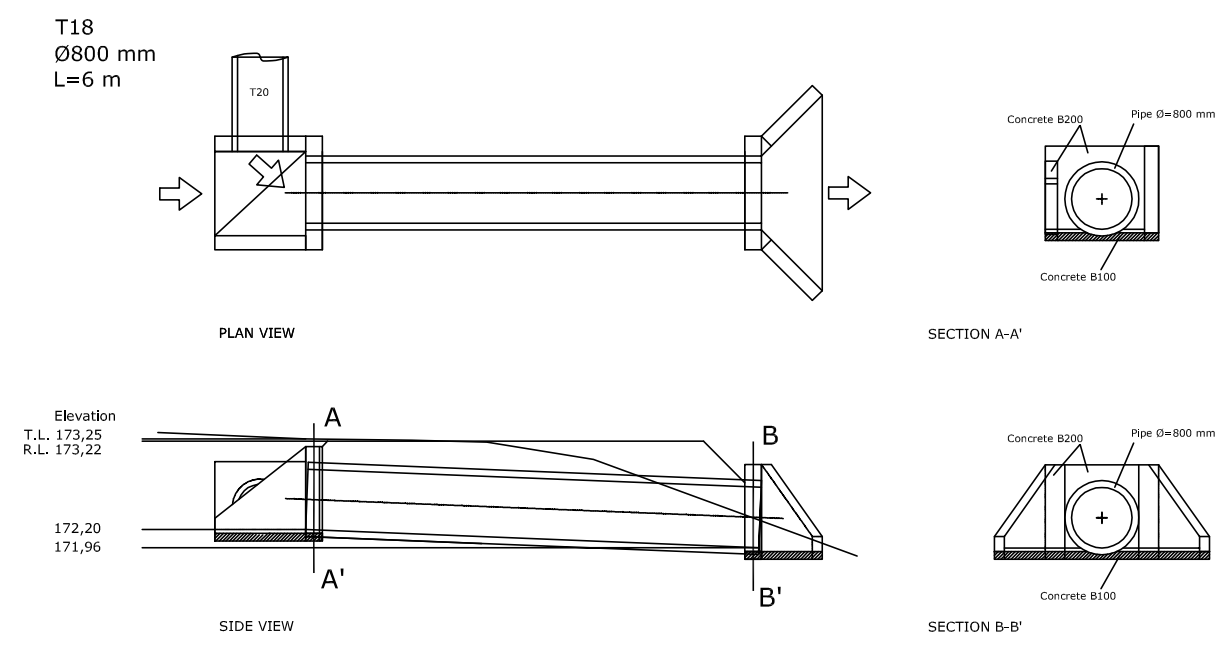
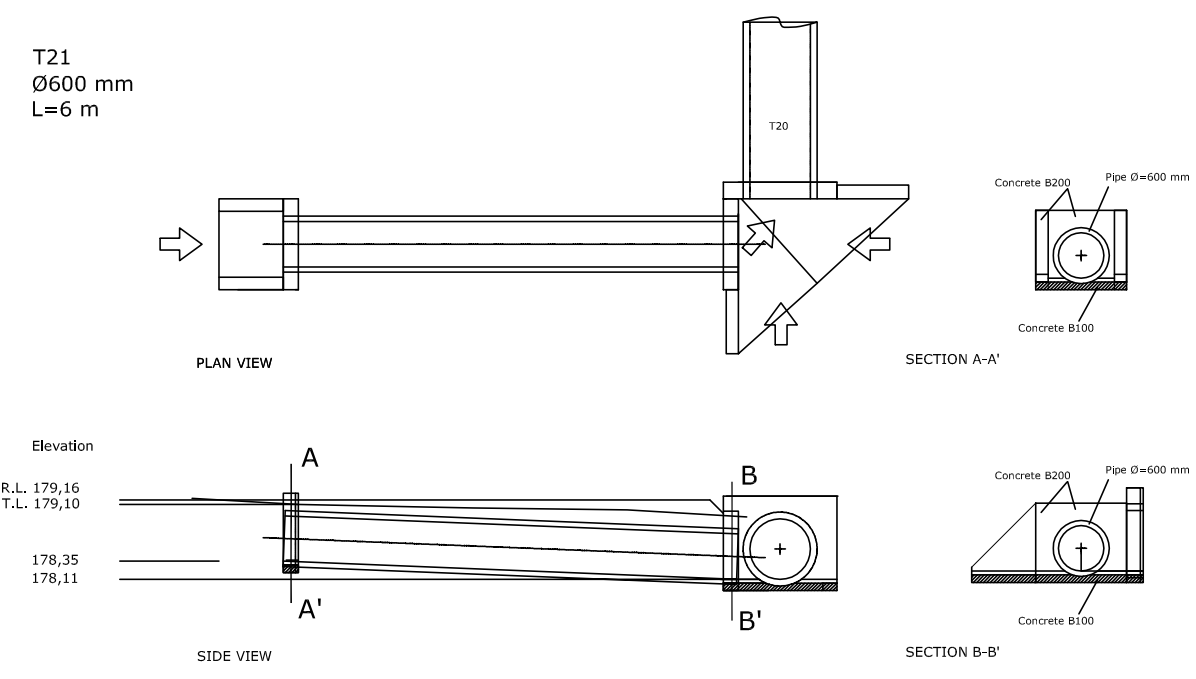
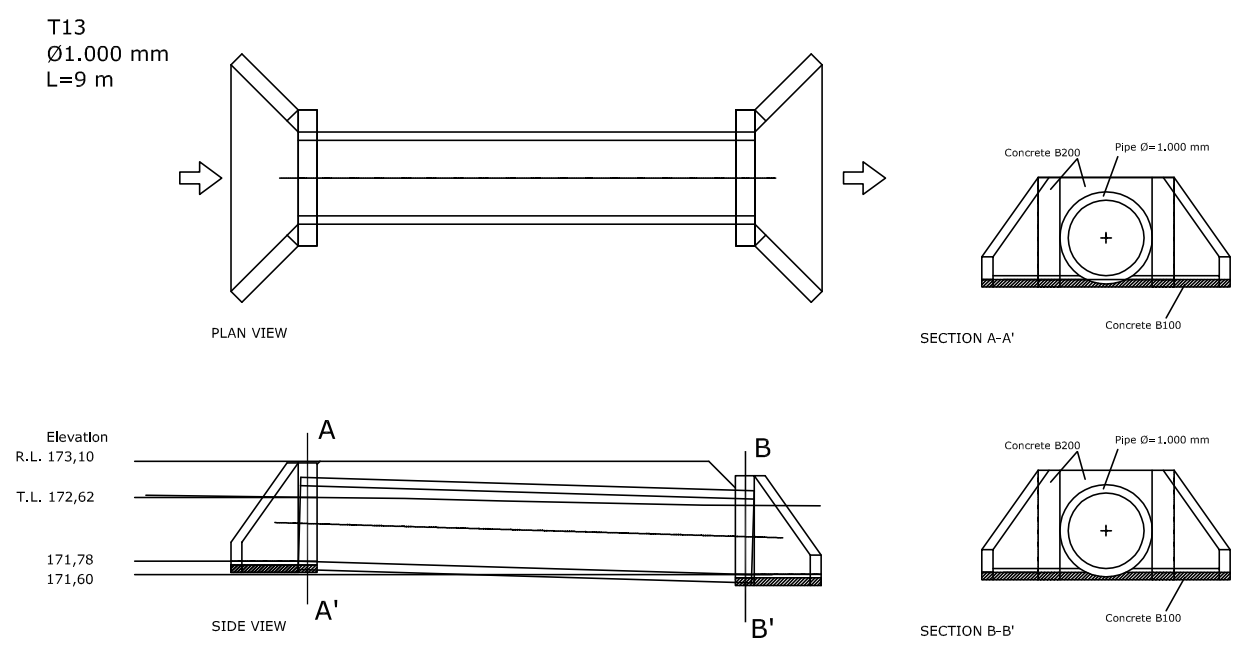
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| Management de proiect: | | | REFERAT DE VERIFICARE NR./DATA | |
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| Proiectant:  S.C. EnergovoltaiC Group S.R.L., Localitatea Arad, Str. Misiunii, Nr. 2, Et. 1, Ap. 3, Corp. A, Nr. Reg. Com. 302/9972069 CUI: RO25959382, Tel 05414230 www.energovoltaiC.ro | | | Beneficiar: GAMA & DELTA ENERGY S.R.L., Județul Arad Localitatea Arad Str. Cpt. Grigore Ighat, nr.50 AP. 2a, 302/1075/2011 CUI: RO29992657 | Proiect nr. 11/2010 |
| SPECIFICATIE: | NUME | Semnatura: | Data: | Denumire proiect: |
| Sef proiect: | Ing. Joan Berengué | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGIEI ELECTRICE SEBS2 |
| Proiectat: | Ing.Dragos Baghici | | | DETAII A SANTURILOR |
| Desenat: | Ing.Trăian Iltut | | 1:50 | DE SCURGERE |
| | | | | Plansa Nr. 41A |



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| Management de proiect: | | | | REFERAT DE VERIFICARE NR. DATA | |
| GPEM ibener | | | | | |
| Proiectant: | S.C. Energetich Group S.R.L. | | | Beneficiar: | CAMA & DELTA ENERGY S.R.L. |
| | Localitatea Sănd, Str. Mădăria, Nr. 2, Et. 1, Ap. 3, Corp. A. | | | | Județul Arad Localitatea Arad Str. Căp. Gârgeș, nr. 50 Ap. 2s. |
| | No. Reg. Com. 202397/2009 C.U.D. 002595/002, J1/0354142/0 | | | | REGISTRUL C.U.D. ROMANIA |
| | www.energetichgroup.ro | | | | |
| SPECIFICATIE: | NUME | Scuturari: | Data: | Denumire proiect | FAZA: |
| Sef proiect: | Ing. Ioan Berengab | | Sept 2012 | FERMA SOLARA DE PRODUCERE A ENERGII ELECTRICE SERIE: | DIAC |
| Proiectat: | Ing. Dragos Baghici | | | Titlul planșet | DETALII TUBULATURA |
| Desenat: | Ing. Tudor But | | 1:100 | DE SCURGERE I | Planșa Nr. 4/6 |



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| Management de proiect: | | REFERAT DE VERIFICARE NR.DATA | |
| GPEM ibener | | | |
| Proiectant: | S.C. Energoinvest Group S.R.L. Localitatea Săbău, Str. Măreș, Nr. 2, Et. 1, Ap. 3, Corp. A. No. Reg. Com. 2023/72089/ETD, RO2023/0182, EU050414240 www.energoinvest.ro | Beneficiar: | GAMA & DELTA ENERGY S.R.L. Județul Arad Localitatea Arad Str. Căp. Gârgeș, nr. 50 Ap. 2s. RO07570811 CUI: RO07570811 |
| Seî proiect: | Ing. Ioan Berengab | Scara: | 1:100 |
| Proiectat: | Ing. Dragos Baghici | Desenat: | Ing. Tudor Brut |
| SPECIFICATIE: | | Denumire proiect: | |
| NUME: | | FAZA: | |
| Denumire proiect: | | Planșă Nr.: | |
| DETALII TUBULATURA | | 4/C | |