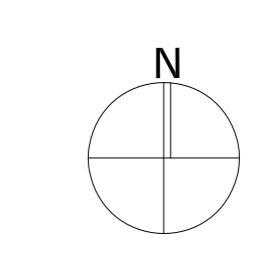
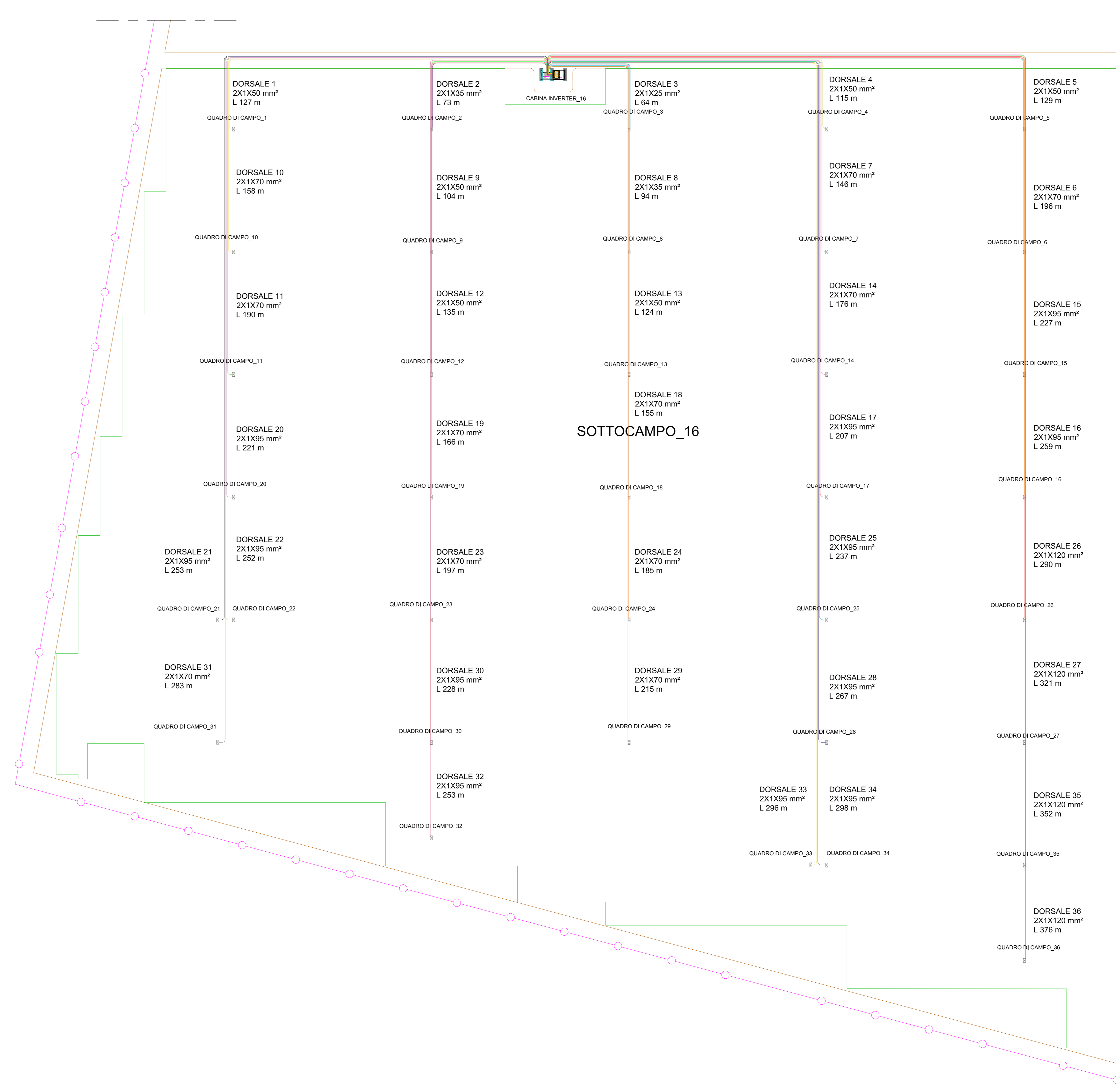


1. LEGENDA

- AREA 01
- AREA 02
- AREA 03
- AREA 04
- AREA 05
- AREA 06
- AREA 07
- AREA 08
- AREA 09
- AREA 10
- AREA 11
- AREA 12
- AREA 13
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- AREA 31
- AREA 32
- AREA 33
- AREA 34
- AREA 35
- AREA 36

MODULE DATA SHEET		CABLING CALCULATION: "Cerignola"		GP - Inverter Electrical Characteristics		Voltage drop from Strings to QPS	
Module Type	REC Solar / REC400E BLK	GP - Inverter	1161.42 V	Module for each string	26.00	Line per GP	10
Open Circuit Voltage (Voc)	37.50	Line per GP	1383.20 V	String per GP	10.00	Medium Length	< 45 m
Open Circuit Voltage (Voc)	53.20	Line per GP	1383.20 V	String per GP	10.00	Medium Resistance	0.1719 Ω
Optimum Operating Voltage (Vmp)	44.67	Line per GP	1383.20 V	String per GP	10.00	Section Line	10 mm²
Current (Imp)	12.88	Line per GP	1383.20 V	String per GP	10.00	Voltage Drop at STC	0.19 %
Temperature Co-efficient Voltage (β)	-0.280 V/W°C	Line per GP	1383.20 V	String per GP	10.00	Voltage Drop at 65°C	0.17 %
Temperature Co-efficient Current (α)	0.048 A/W°C	Line per GP	1383.20 V	String per GP	10.00	Voltage Drop at -10°C	0.17 %
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	26.00	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
Voltage	Vmp 1161.42	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
Current	A 12.88	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
Peak Power (Pm)	Wp 14.66	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
FINAL DATA							
String to Inv	N° 318	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
Power of all Strings	(Pmax) 4702.55 kWp	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
Total Modules	N° 8190	Line per GP	1383.20 V	String per GP	10.00	Line per GP	10
VALUES VERIFICATION FOR ONE QPS TO INVERTER							
Estimation of the minimum voltage Vmp. For a temperature of the modules that are 65°C	1291.50V	MIN MPPT VOLTAGE	849 V	Line per GP	10	Line per GP	10
Estimation of the maximum current Imp. For a temperature of the modules that are 65°C	131.37 A	MAX MPPT VOLTAGE	1320 Vdc	Line per GP	10	Line per GP	10
Estimation of the minimum voltage Vmp. For a temperature of the modules that are 65°C	1161.42V	MAX MPPT VOLTAGE	1320 Vdc	Line per GP	10	Line per GP	10
Estimation of the maximum current Imp. For a temperature of the modules that are -10°C	126.64 A	MAXIMUM VOLTAGE	1500 Vdc	Line per GP	10	Line per GP	10
Estimation of the minimum voltage Vmp. For a temperature of the modules that are -10°C	1247.65V	MAXIMUM VOLTAGE	1500 Vdc	Line per GP	10	Line per GP	10
CALCULATION OF THE VOLTAGE DROP ON THE CABLES STC							
CODE	N° OF STRINGS TO QPS	AREAS	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM QPS TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PV PLANT
SC.01	9	A.01	127.00	95	0.90	1.10	1
SC.02	9	A.02	73.00	35	0.74	0.96	2
SC.03	9	A.03	84.00	25	0.81	1.10	3
SC.04	9	A.04	115.00	80	0.82	1.00	4
SC.05	9	A.05	129.00	95	0.92	1.10	5
SC.06	9	A.06	199.00	70	1.05	1.20	6
SC.07	9	A.07	146.00	70	0.74	0.96	7
SC.08	9	A.08	84.00	35	0.81	1.10	8
SC.09	9	A.09	104.00	50	0.74	0.96	9
SC.10	9	A.10	134.00	70	0.89	1.20	10
SC.11	9	A.11	180.00	70	0.97	1.20	11
SC.12	9	A.12	134.00	70	0.89	1.20	12
SC.13	9	A.13	174.00	70	0.90	1.10	13
SC.14	9	A.14	174.00	70	0.90	1.10	14
SC.15	9	A.15	250.00	95	0.97	1.20	15
SC.16	9	A.16	250.00	95	0.97	1.20	16
SC.17	9	A.17	250.00	95	0.97	1.20	17
SC.18	9	A.18	154.00	70	0.79	1.00	18
SC.19	9	A.19	166.00	70	0.84	1.00	19
SC.20	9	A.20	221.00	95	0.83	1.00	20
SC.21	9	A.21	250.00	95	0.89	1.10	21
SC.22	9	A.22	250.00	95	0.84	1.10	22
SC.23	9	A.23	190.00	70	1.00	1.20	23
SC.24	9	A.24	185.00	70	0.94	1.10	24
SC.25	9	A.25	237.00	95	0.89	1.10	25
SC.26	9	A.26	290.00	120	0.85	1.10	26
SC.27	9	A.27	321.00	120	0.85	1.10	27
SC.28	9	A.28	297.00	95	1.00	1.20	28
SC.29	9	A.29	215.00	70	0.97	1.20	29
SC.30	9	A.30	228.00	95	0.85	1.00	30
SC.31	7	A.31	293.00	70	0.82	1.00	31
SC.32	9	A.32	293.00	95	0.89	1.10	32
SC.33	9	A.33	296.00	95	0.89	1.20	33
SC.34	7	A.34	296.00	95	0.87	1.10	34
SC.35	7	A.35	352.00	120	0.81	1.00	35
SC.36	8	A.36	378.00	120	0.83	1.10	36

MINIMUM VALUE	1.933 %
MINIMUM VALUE	0.900 %
MINIMUM VALUE	1.200 %



CERIGNOLA REGIONE PUGLIA PROVINCIA DI FOGGIA

IMPIANTO AGRIVOLTAICO E RELATIVE OPERE ED INFRASTRUTTURE CONNESSE DELLA POTENZA ELETTRICA DI 140,66 MW (ex 120MW) SITO NEL COMUNE DI CERIGNOLA

PROGETTO DEFINITIVO

Layout Campo "A1" - Sottocampo 16 - Dimensionamento delle dorsali- Tabella calcolo dorsali

Proprietario: CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona P.IVA 04741630232 cerignolasolar2@pec.it

Progettazione: WH Group s.r.l. Via A. Locatelli n. 1 - 37122 Verona (VR) P.IVA 12336131003 ingegnera@whgroup.eu

Spazio riservato agli Enti:

File: PE17Q60_0b_rivistoGrafico_4.2.9_2.113	Cod. PE17Q60	Scala: 1:500		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Minorile	A. Tartaglia	S.M. Caputo
4.2.9_2.113				
CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona cerignolasolar2@pec.it				