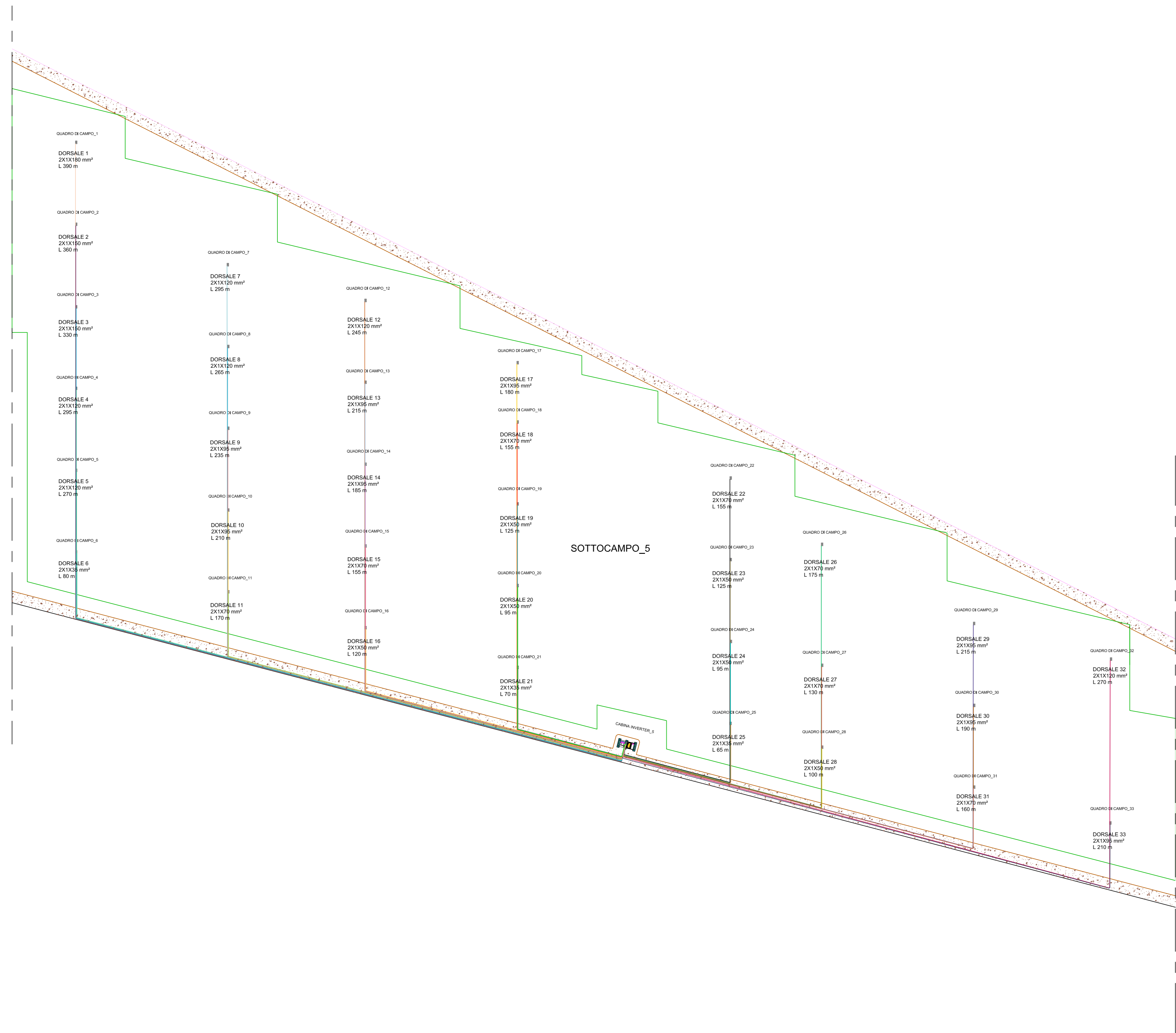


1. LEGENDA

- ☐ DORSALE QUADRO_01
- ☐ DORSALE QUADRO_02
- ☐ DORSALE QUADRO_03
- ☐ DORSALE QUADRO_04
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- ☐ DORSALE QUADRO_30
- ☐ DORSALE QUADRO_31
- ☐ DORSALE QUADRO_32
- ☐ DORSALE QUADRO_33



CABLING CALCULATION: "Cerignola"

MODULE DATA SHEET		CP - Inverter Electrical Characteristics		Voltage Drop from Strings to GFS	
MODULE TYPE	REC Solar REC400R-6K	CP (kW)	161.42 V	Modules for each string	30.00
Peak Power (P _{mp})	(Wp)	515.00	V _{oc} (V)	Line per CP	0
Open-Circuit Voltage (V _{oc})	(V)	51.00	V _{oc} (V)	String per CP	10.00
Optimum Operating Voltage (V _{mp})	(V)	44.87	I _{sc} (A)	Medium Length	4.45 m
Current (I _{sc})	(A)	12.88	Temperature Co-efficient (TempCo)	Section Line	10 mm
Temperature Co-efficient (TempCo)	-0.280 V/W°C			Voltage Drop at STC	0.19 %
	0.048 A/W°C			Voltage Drop at 85°C	0.17 %
				Voltage Drop at 10°C	0.17 %

CHARACTERISTICS FOR ONE STRING	
Modules for each 1	N° 20.00
Voltage	V _{mp} 1161.42
Current	A 12.88
Peak Power (P _{mp})	kWp 14.95

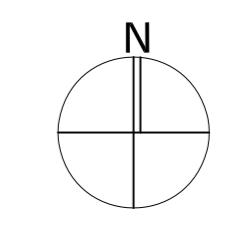
FINAL DATA	
String to PV	N° 330
Power of all Strings	(Phase) 4933.50 kWp
Total Modules	N° 6580

CP - Inverter Characteristics

VALUES VERIFICATION FOR ONE GFS to INVERTER		SW: Sunny Central 4000EV
Estimation of the minimum voltage V _{mp} For a temperature of the modules that are 85°C	1291.50V	MIN MPPT VOLTAGE 840 V
Estimation of the maximum current I _{mp} For a temperature of the modules that are 85°C	131.27 A	
Estimation of the maximum input voltage V _{oc} For a temperature of the modules that are 85°C	1161.42V	MAX MPPT VOLTAGE 1325 Vdc
Estimation of the minimum current I _{sc} For a temperature of the modules that are 10°C	126.64 A	
Estimation of the maximum voltage V _{oc} For a temperature of the modules that are 10°C	1247.65V	MAXIMUM VOLTAGE 1500 Vdc

CALCULATION OF THE VOLTAGE DROP ON THE CABLES ETC							
CODE	N° OF STRINGS TO GFS	AREA	MINIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM 0% TO 100%	TOTAL VOLTAGE DROP	HANDED OF AREA IN THE PV PLANT
SC 01	10	A.01	415.00	160	0.88	1.10	1
SC 02	10	A.02	345.00	160	0.90	1.10	2
SC 03	10	A.03	300.00	120	0.87	1.20	4
SC 04	10	A.04	260.00	120	0.87	1.20	4
SC 05	10	A.05	195.00	95	0.90	1.10	6
SC 06	10	A.06	200.00	120	0.87	1.20	6
SC 07	10	A.07	200.00	120	0.87	1.20	6
SC 08	10	A.08	200.00	120	0.87	1.20	6
SC 09	10	A.09	200.00	120	0.87	1.20	6
SC 10	10	A.10	200.00	95	0.87	1.20	10
SC 11	10	A.11	200.00	120	0.87	1.20	10
SC 12	10	A.12	200.00	120	0.87	1.20	10
SC 13	10	A.13	240.00	95	0.90	1.10	13
SC 14	10	A.14	210.00	95	0.92	1.00	14
SC 15	10	A.15	180.00	75	0.88	1.10	18
SC 16	10	A.16	140.00	50	0.96	1.10	18
SC 17	10	A.17	200.00	95	0.75	0.90	17
SC 18	10	A.18	180.00	75	0.88	1.10	18
SC 19	10	A.19	120.00	50	0.88	1.20	20
SC 20	10	A.20	120.00	50	0.75	0.90	20
SC 21	10	A.21	150.00	50	0.78	1.00	21
SC 22	10	A.22	180.00	75	0.88	1.10	22
SC 23	10	A.23	150.00	50	0.96	1.20	23
SC 24	10	A.24	120.00	50	0.75	0.90	24
SC 25	10	A.25	150.00	50	0.75	0.90	24
SC 26	10	A.26	200.00	70	0.99	1.20	24
SC 27	10	A.27	150.00	75	0.74	0.90	24
SC 28	10	A.28	120.00	50	0.75	1.00	28
SC 29	10	A.29	240.00	95	0.86	1.10	29
SC 30	10	A.30	210.00	95	0.75	1.00	29
SC 31	10	A.31	210.00	120	0.88	1.10	29
SC 32	10	A.32	210.00	120	0.88	1.10	29
SC 33	10	A.33	235.00	95	0.87	1.10	30

MEDIAN VOLTAGE	1.940 %
MINIMUM VOLTAGE	0.900 %
MAXIMUM VOLTAGE	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 "A2" - Sottocampo 5 - Dimensionamento delle dorsali - Tabella calcolo di dorsali

Proponente: **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 12334181003
ingegneris@whgroup.eu

Spazio riservato agli Enti:

Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Ministeriale	A. Tartaglia	S.M. Caputo

4.2.9_3.36

File: PE17Q0_EbbornoGratic_4.2.9_3.36 Cod: PE17Q0 Scala: 1:800

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