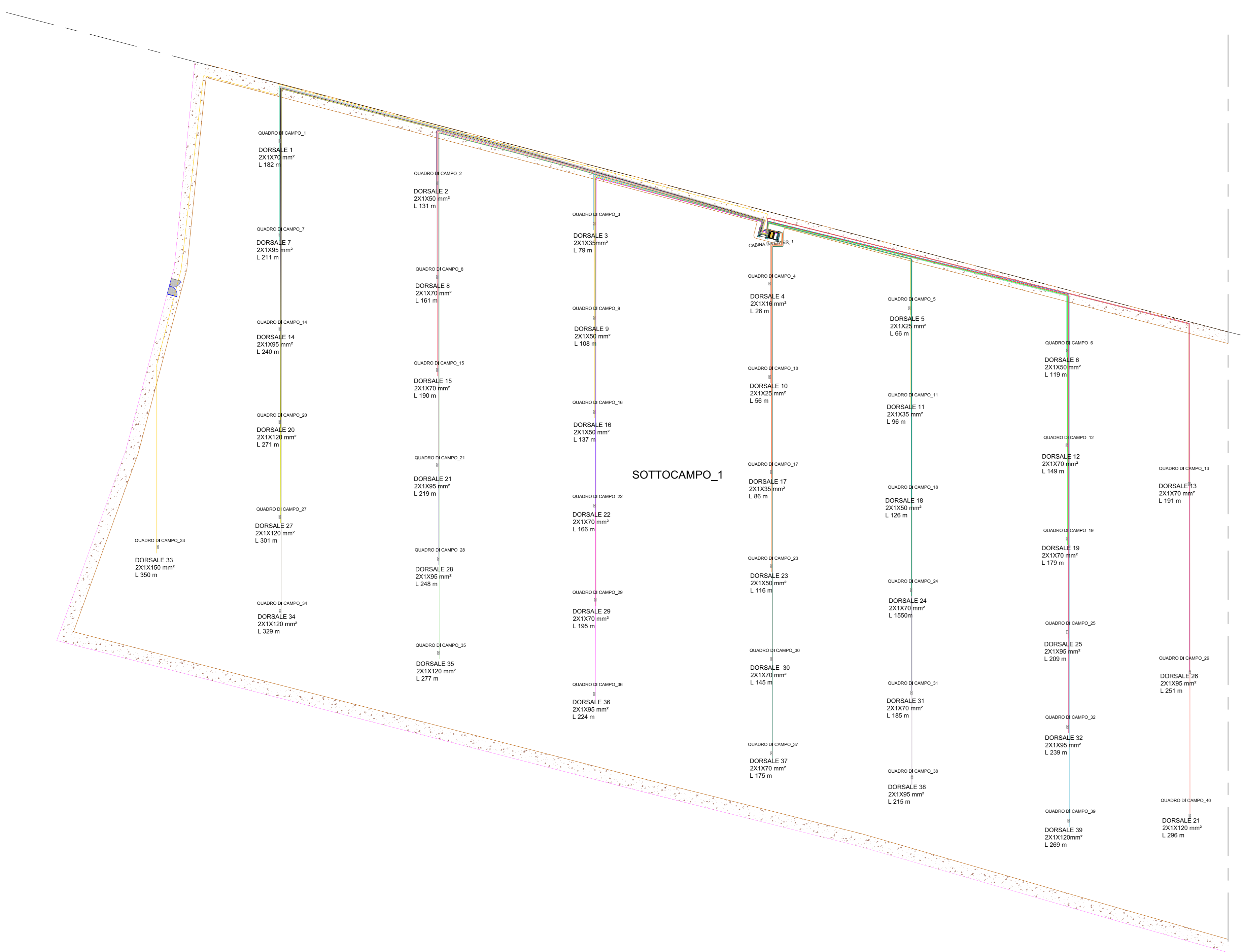


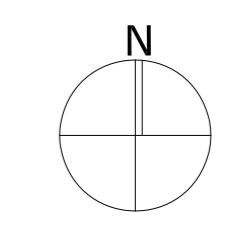
1. LEGENDA

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- DORSALE QUADRO_38
- DORSALE QUADRO_39
- DORSALE QUADRO_40



MODULE DATA SHEET				CABLING CALCULATION: "Cerignola"			
MODULE TYPE		PSC Solar RECORDER B.A.		QP - Inverter Electrical Characteristics		Voltage drop from Strings to QPS	
Peak Power (Pm)	(Wp)	577.00	Characteristics at STC	V _{OC}	181.42 V	Line per QP	200
Open Circuit Voltage (Voc)	(V)	52.20		V _{OC} OUT	138.20 V	Strings per QP	10.00
Optimum Operating Voltage (Vmp)	(V)	44.67		I _{SC}	12.88 A	Medium Length	6.45 m
Current (Imp)	(A)	12.88				Medium Resistance	0.1719 Ω
Temperature Coefficients Voltage (β)		-0.280 V/W°C				Section Line	10 mm
Temperature Coefficients Current (α)		0.048 A/W°C				Voltage Drop at 65°C	0.19 %
						Voltage Drop at 60°C	0.17 %
						Voltage Drop at 15°C	0.17 %
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	N°	28.00					
Voltage	Vmp	1181.42					
Current	A	12.88					
Peak Power (Pm)	Wp	14.65					
FINAL DATA							
String to In	N°	39					
Power of all Strings	(Pm)k	5411.60 kWp					
Total Modules	N°	9472					
Isc = Open String In				SMA - Sunny Central 4000-ELV			
VALUES VERIFICATION FOR ONE QPS TO INVERTER							
Estimation of the minimum voltage Vmp	1281.60V	MIN MPPT VOLTAGE	849 V				
Estimation of the maximum voltage Voc	131.27 A	MAX MPPT VOLTAGE	1325 Vdc				
Estimation of the maximum current Imp	1181.42V						
Estimation of the minimum current Isc	128.84 A						
Estimation of the maximum voltage Vdc	1247.85V	MAXIMUM VOLTAGE	1500 Vdc				
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_71	297.00	70	0.85	1.10	1
SC 02	9	A_72	186.00	80	0.85	1.10	2
SC 03	10	A_73	184.00	85	0.89	1.10	2
SC 04	10	A_74	51.00	85	0.89	0.80	2
SC 05	9	A_75	81.00	85	0.84	1.10	5
SC 06	9	A_76	144.00	85	0.85	1.00	6
SC 07	9	A_77	234.00	85	0.79	1.00	7
SC 08	9	A_78	186.00	70	0.82	1.00	8
SC 09	9	A_79	135.00	85	0.77	1.00	8
SC 10	9	A_80	81.00	85	0.80	1.00	10
SC 11	9	A_81	135.00	85	0.80	1.00	11
SC 12	9	A_82	174.00	70	0.75	1.00	12
SC 13	9	A_83	243.00	70	0.87	1.00	13
SC 14	9	A_84	264.00	85	0.80	1.10	14
SC 15	9	A_85	215.00	70	0.87	1.00	15
SC 16	9	A_86	162.00	85	0.88	1.00	16
SC 17	9	A_87	115.00	85	0.87	1.10	17
SC 18	9	A_88	181.00	80	0.80	1.10	18
SC 19	9	A_89	264.00	70	0.81	1.10	19
SC 20	9	A_90	298.00	120	0.80	1.00	20
SC 21	9	A_91	246.00	70	0.81	1.00	21
SC 22	9	A_92	181.00	70	0.84	1.00	22
SC 23	9	A_93	144.00	85	0.85	1.00	23
SC 24	9	A_94	182.00	70	0.79	1.00	24
SC 25	9	A_95	234.00	85	0.76	1.00	24
SC 26	9	A_96	276.00	95	0.84	1.10	24
SC 27	9	A_97	336.00	120	0.89	1.10	24
SC 28	9	A_98	273.00	85	0.83	1.10	26
SC 29	9	A_99	225.00	70	0.89	1.00	26
SC 30	9	A_100	170.00	70	0.74	0.80	27
SC 31	9	A_101	230.00	70	0.84	1.10	28
SC 32	9	A_102	264.00	85	0.80	1.10	29
SC 33	9	A_103	195.00	100	0.84	1.00	30
SC 34	9	A_104	354.00	120	0.88	1.20	31
SC 35	9	A_105	300.00	110	0.82	1.00	32
SC 36	9	A_106	249.00	95	0.84	1.00	33
SC 37	9	A_107	290.00	70	0.89	1.10	33
SC 38	9	A_108	240.00	85	0.81	1.00	33
SC 39	9	A_109	294.00	120	0.80	1.00	33
SC 40	9	A_110	321.00	120	0.85	1.10	33

MINIMUM VALUE	1.887 %
MAXIMUM VALUE	0.880 %
AVERAGE VALUE	1.280 %



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 I - 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 12336131003
ingegneris@entgroup.eu

Spazio riservato agli Enti:

File: PE17Q0_EditorioGrafico_4.2.9_3.8	Cod: PE17Q0	Scala: 1:800		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Ministeriale	A. Tartaglia	S.M. Caputo
4.2.9_3.8				
CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona cerignolasolar2@pec.it				