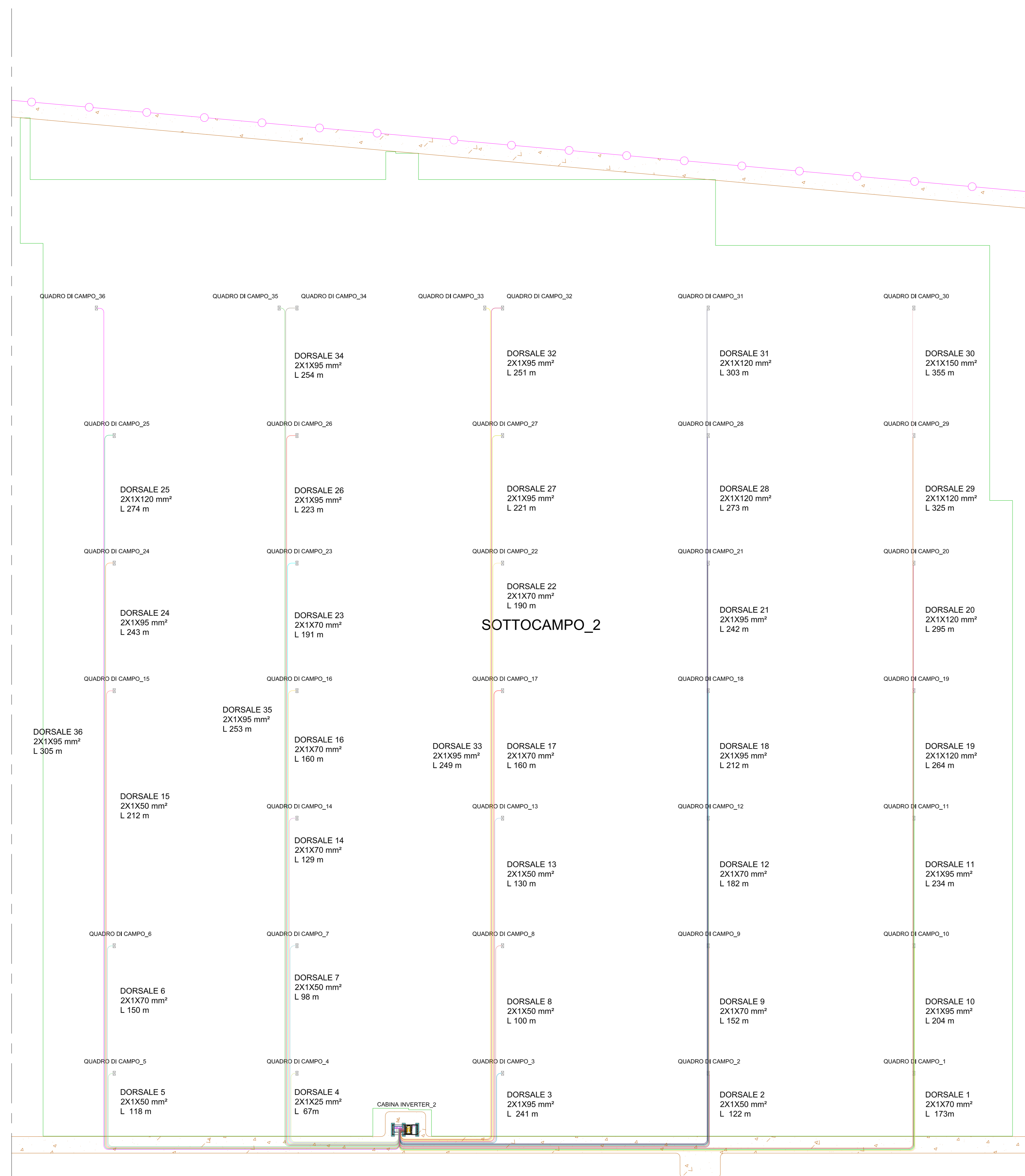


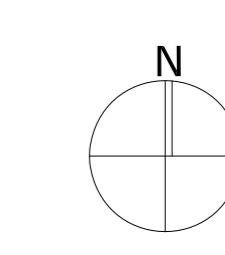
1. LEGENDA

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- || DORSALE QUADRO_36



MODULE DATA SHEET				GP - Inverter Electrical Characteristics		Voltage drop from Strings to QPS	
Module Type	400 Solar RECPOW-BLX	UL 603	1181.4 V	Modules for each string	20.00		
Peak Power (Pm)	(Wp)	375.00	1361.50 V	Length per GP	10.00		
Open Circuit Voltage (Voc)	(V)	63.20	F	Strings per GP	10.00		
Minimum Operating Voltage (Vmp)	(V)	44.67		Medium Length	≤ 4.6 m		
Current (Imp)	(A)	12.88		Medium Resistance	0.1719 Ω		
Temperature Co-Efficient Voltage (β)		-0.290 1/V°C		Section Line	10 mm		
Temperature Co-Efficient Current (α)		0.048 1/V°C		Voltage Drop 87°C	0.18 %		
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	N°	20.00		Voltage Drop at 85°C	0.17 %		
Voltage	A	1181.42		Voltage Drop at 10°C	0.18 %		
Current	A	12.88					
Peak Power (Pm)	kWp	14.95					
FINAL DATA							
String to Inv	N°	315					
Power of all Strings (Peak)		4789.25 kWp					
Total Modules	N°	6190					
QPS = Smart String Box							
VALUES VERIFICATION FOR ONE QPS TO INVERTER				SMB - String Central 4000EV			
Estimation of the minimum voltage Vmpc For a temperature of the modules that are 85°C	1296.14V	MINIMUM VOLTAGE	849 V				
Estimation of the maximum current Impc For a temperature of the modules that are 85°C	131.27 A	MAXIMUM CURRENT	1325 Vdc				
Estimation of the minimum voltage Vmpc For a temperature of the modules that are 10°C	1161.42V	MINIMUM VOLTAGE	1325 Vdc				
Estimation of the maximum current Impc For a temperature of the modules that are 10°C	126.64 A	MAXIMUM VOLTAGE	1500 Vdc				
CALCULATION OF THE VOLTAGE DROP ON THE CABLES BTC							
CODE	N° OF STRINGS TO QPS	AREAS	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM GP TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PLANT
SC.01	9	A.01	173.00	70	0.50	1.10	1
SC.02	9	A.02	222.00	50	0.88	1.10	2
SC.03	9	A.03	241.00	50	0.92	1.10	3
SC.04	9	A.04	67.00	25	0.97	1.20	4
SC.05	9	A.05	118.00	50	0.98	1.00	5
SC.06	9	A.06	150.00	70	0.78	1.00	6
SC.07	9	A.07	88.00	50	0.71	0.90	7
SC.08	9	A.08	152.00	50	0.72	1.00	8
SC.09	9	A.09	152.00	50	0.72	1.00	9
SC.10	9	A.10	244.00	95	0.78	1.00	10
SC.11	9	A.11	234.00	95	0.69	1.10	11
SC.12	9	A.12	142.00	70	0.96	1.10	12
SC.13	9	A.13	130.00	50	0.93	1.10	13
SC.14	9	A.14	230.00	70	0.98	1.20	14
SC.15	9	A.15	212.00	50	0.93	1.10	15
SC.16	9	A.16	150.00	70	0.93	1.00	16
SC.17	9	A.17	190.00	70	0.83	1.00	17
SC.18	9	A.18	212.00	95	0.81	1.00	18
SC.19	9	A.19	204.00	120	0.80	1.00	19
SC.20	9	A.20	200.00	120	0.89	1.10	20
SC.21	9	A.21	242.00	95	0.92	1.10	21
SC.22	9	A.22	180.00	70	0.96	1.20	22
SC.23	9	A.23	191.00	70	0.99	1.20	23
SC.24	9	A.24	241.00	95	0.92	1.00	24
SC.25	9	A.25	274.00	120	0.83	1.00	24
SC.26	9	A.26	220.00	95	0.85	1.00	24
SC.27	9	A.27	221.00	95	0.84	1.00	24
SC.28	9	A.28	271.00	120	0.82	1.00	25
SC.29	9	A.29	325.00	120	0.98	1.20	26
SC.30	9	A.30	355.00	150	0.89	1.10	27
SC.31	9	A.31	303.00	120	0.91	1.10	28
SC.32	8	A.32	241.00	95	0.88	1.00	29
SC.33	8	A.33	249.00	95	0.84	1.00	30
SC.34	7	A.34	254.00	95	0.75	0.90	31
SC.35	7	A.35	253.00	95	0.75	0.90	32
SC.36	7	A.36	305.00	95	0.90	1.10	33

MINIMUM VALUE	1.800 %
MAXIMUM VALUE	0.800 %
AVERAGE 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 2-
 Dimensionamento delle dorsali-Tabella calcolo 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
 ingegneri@enitgroup.eu



Spazio riservato agli Enti:

Fid: PE17040_ElaborazioneGrafico_4.2.9_2.15	Cod. PE17040	Scala 1:500		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Messorale	A. Tartaglia	S.M. Caputo
4.2.9_2.15				
CERIGNOLA SOLAR 2 S.R.L. Via Antonio Locatelli n.1 37122 Verona cerignolasolar2@pec.it				