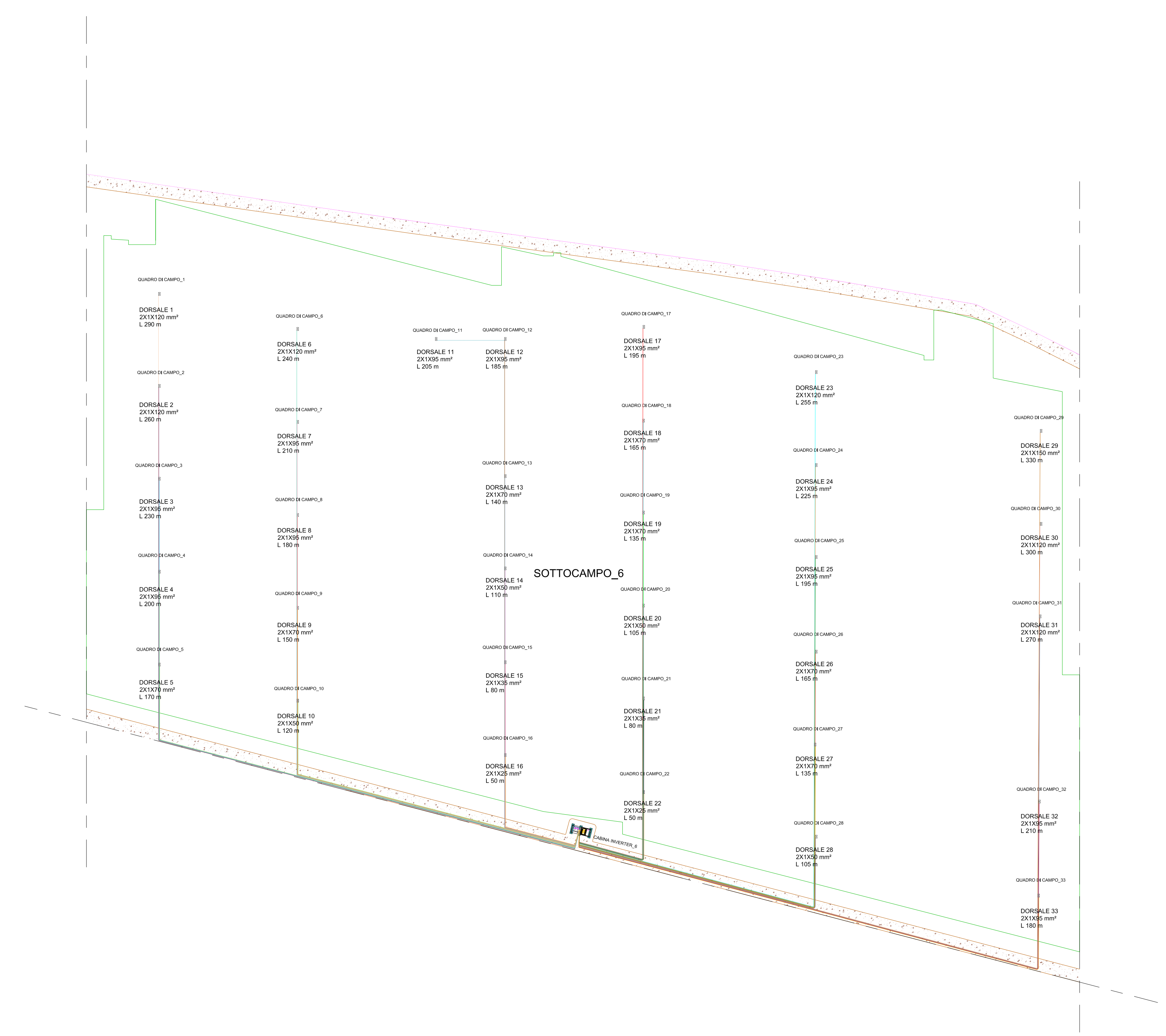


1. LEGENDA
- ☐ DORSALE QUADRO_01
 - ☐ DORSALE QUADRO_02
 - ☐ DORSALE QUADRO_03
 - ☐ DORSALE QUADRO_04
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 - ☐ DORSALE QUADRO_32
 - ☐ DORSALE QUADRO_33



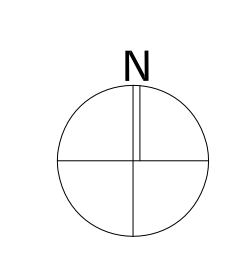
CABLING CALCULATION: "Cerignola"

MODULE DATA SHEET		QP - Inverter Electrical Characteristics	
MODULE TYPE	REC Solar / RECPIRE BK	DC IN	1151.42 V
Peak Power (P _{max})	(Wp)	V _{OC} OUT	1385.23 V
Open Circuit Voltage (V _{OC})	(V)	I _{SC}	128.88 A
Optimum Operating Voltage (V _{opt})	(V)		
Current (I _{SC})	(A)		
Temperature Coefficient Voltage (β _v)	-0.280 V/W°C		
Temperature Coefficient Current (β _i)	0.048 A/W°C		
CHARACTERISTICS FOR ONE STRING			
Modules by each 1	N°	20.00	
Voltage	V _{mppt}	1151.42	
Current	A	12.88	
Peak Power (P _{max})	(kW)	14.95	
FINAL DATA			
String to the	N°	330	
Power of all Strings	(P _{max})	4933.95 kW _{wp}	
Total Modules	N°	6500	

VALUES VERIFICATION FOR ONE QPS TO INVERTER		S.M. - Sunny Central 4000-5V	
Estimation of the minimum voltage V _{mppt} For a temperature of the modules that are 55°C	1291.50V	MIN MPPT VOLTAGE	849 V
Estimation of the maximum current I _{mppt} For a temperature of the modules that are 55°C	131.27 A		
Estimation of the maximum input voltage V _{oc} For a temperature of the modules that are 55°C	1161.42V	MAX MPPT VOLTAGE	1325 Vdc
Estimation of the minimum current I _{sc} For a temperature of the modules that are 55°C	126.64 A		
Estimation of the maximum voltage V _{oc} For a temperature of the modules that are 10°C	1247.66V	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 QP TO BOXES (V)	TOTAL VOLTAGE DROP
SC-01	10	A-01	315.00	120	0.96	1.20
SC-02	10	A-02	385.00	120	1.20	1.50
SC-03	10	A-03	255.00	95	0.85	1.05
SC-04	10	A-04	255.00	95	0.85	1.05
SC-05	10	A-05	395.00	120	1.20	1.50
SC-06	10	A-06	255.00	95	0.85	1.05
SC-07	10	A-07	305.00	95	0.85	1.05
SC-08	10	A-08	295.00	95	0.85	1.05
SC-09	10	A-09	175.00	70	0.55	0.70
SC-10	10	A-10	145.00	50	0.35	0.45
SC-11	10	A-11	235.00	95	0.85	1.05
SC-12	10	A-12	215.00	95	0.77	1.00
SC-13	10	A-13	165.00	70	0.70	0.90
SC-14	10	A-14	135.00	50	0.57	0.75
SC-15	10	A-15	105.00	35	0.40	0.50
SC-16	10	A-16	75.00	25	0.28	0.35
SC-17	10	A-17	205.00	95	0.81	1.05
SC-18	10	A-18	190.00	70	0.69	0.90
SC-19	10	A-19	160.00	50	0.56	0.70
SC-20	10	A-20	130.00	35	0.43	0.55
SC-21	10	A-21	105.00	25	0.30	0.38
SC-22	10	A-22	75.00	15	0.21	0.27
SC-23	10	A-23	280.00	120	0.84	1.05
SC-24	10	A-24	250.00	95	0.84	1.05
SC-25	10	A-25	220.00	95	0.81	1.00
SC-26	10	A-26	190.00	70	0.69	0.90
SC-27	10	A-27	160.00	50	0.56	0.70
SC-28	10	A-28	130.00	35	0.43	0.55
SC-29	10	A-29	35.00	10	0.07	0.10
SC-30	10	A-30	35.00	10	0.06	0.07
SC-31	10	A-31	295.00	120	0.89	1.10
SC-32	10	A-32	235.00	95	0.87	1.05
SC-33	10	A-33	205.00	95	0.75	0.90

MEDIUM VALUE	1.893 %
MINIMUM VALUE	0.990 %
MAXIMUM 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 "A2" - Sottocampo 6 - 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 12326121003
ingegnerista@entigroup.eu

Spazio riservato agli Enti:

File: PE17Q60_BiborusuGrafico_4.2.9_3.43	Cod. PE17Q60	Scala 1/800		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Misurazione	A. Tartaglia	S.M. Caputo

4.2.9_3.43

CERIGNOLA SOLAR 2 S.R.L. | Via Antonio Locatelli n.1 37122 Verona | cerignolasolar2@pec.it