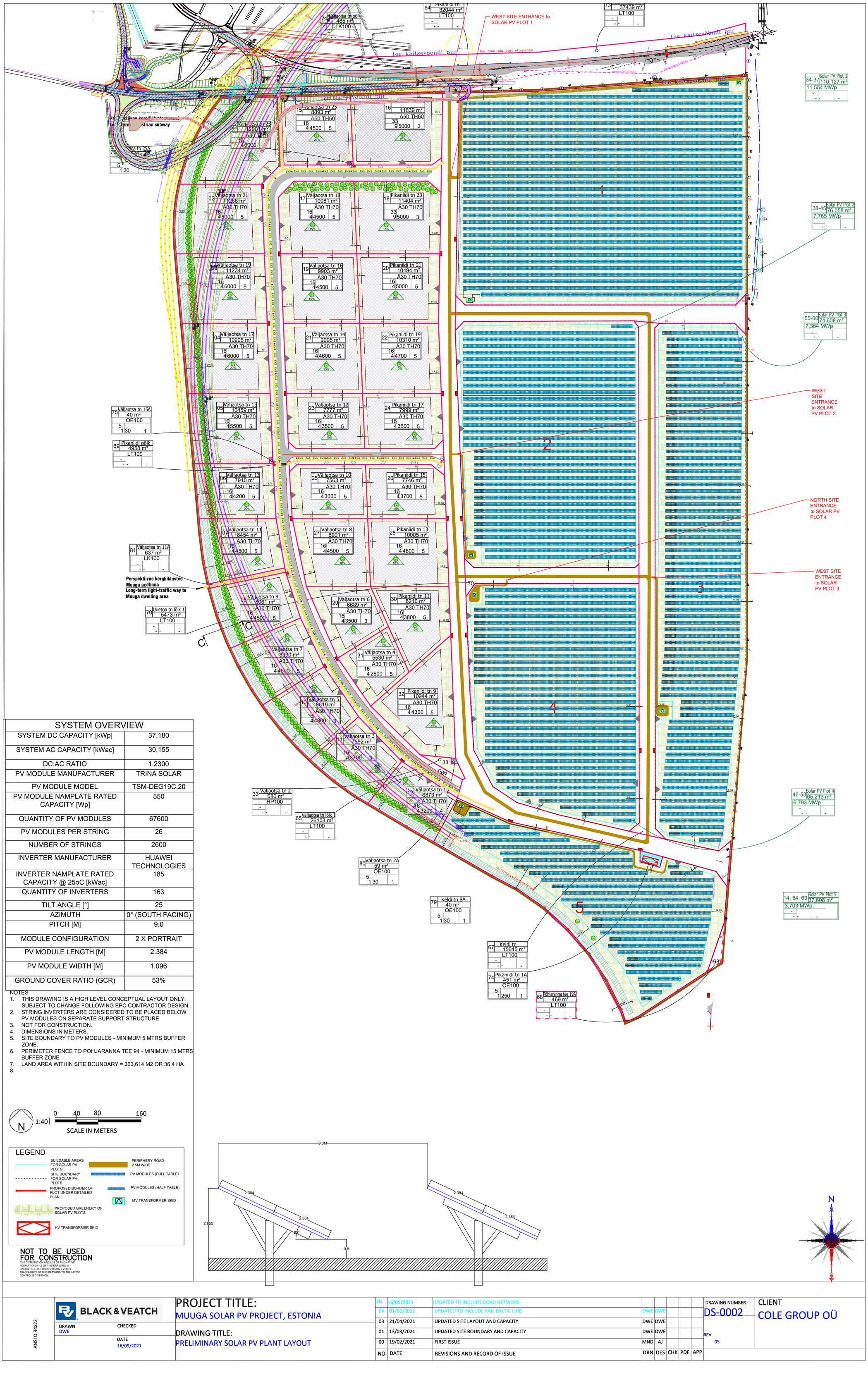

SYSTEM OVERVIEW	
SYSTEM DC CAPACITY [kWp]	37,180
SYSTEM AC CAPACITY [kWac]	30,155
DC:AC RATIO	1.2300
PV MODULE MANUFACTURER	TRINA SOLAR
PV MODULE MODEL	TSM-DEG19C.20
PV MODULE NAMPLATE RATED CAPACITY [Wp]	550
QUANTITY OF PV MODULES	67600
PV MODULES PER STRING	26
NUMBER OF STRINGS	2600
INVERTER MANUFACTURER	HUAWEI TECHNOLOGIES
INVERTER NAMPLATE RATED CAPACITY @ 25oC [kWac]	185
QUANTITY OF INVERTERS	163
TILT ANGLE [°]	25
AZIMUTH	0° (SOUTH FACING)
PITCH [M]	9.0
MODULE CONFIGURATION	2 X PORTRAIT
PV MODULE LENGTH [M]	2.384
PV MODULE WIDTH [M]	1.096
GROUND COVER RATIO (GCR)	53%

NOTES
1. THIS DRAWING IS A HIGH LEVEL CONCEPTUAL LAYOUT ONLY. SUBJECT TO CHANGE FOLLOWING EPC CONTRACTOR DESIGN.
2. STRING INVERTERS ARE CONSIDERED TO BE PLACED BELOW PV MODULES ON SEPARATE SUPPORT STRUCTURE
3. NOT FOR CONSTRUCTION.
4. DIMENSIONS IN METERS.
5. SITE BOUNDARY TO PV MODULES - MINIMUM 5 MTRS BUFFER ZONE.
6. PERIMETER FENCE TO POHJARANNA TEE 94 - MINIMUM 15 MTRS BUFFER ZONE
7. LAND AREA WITHIN SITE BOUNDARY = 363,614 M2 OR 36.4 HA
8.

N 1:40 0 40 80 160
SCALE IN METERS

LEGEND
- BUILDABLE AREAS FOR SOLAR PV PLOTS
- SITE BOUNDARY FOR SOLAR PV PLOTS
- PROPOSED BORDER OF PLOT UNDER DETAILED PLAN
- PROPOSED GREENERY OF SOLAR PV PLOTS
- HV TRANSFORMER SKID
- PERIPHERY ROAD 2.5M WIDE
- PV MODULES (FULL TABLE)
- PV MODULES (HALF TABLE)
- MV TRANSFORMER SKID

NOT TO BE USED FOR CONSTRUCTION

ANSI D 34x22

BLACK & VEATCH

DRAWN	CHECKED
DWE	
DATE	
16/09/2021	

PROJECT TITLE:
MUUGA SOLAR PV PROJECT, ESTONIA

DRAWING TITLE:
PRELIMINARY SOLAR PV PLANT LAYOUT

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
05	16/09/2021	UPDATED TO INCLUDE ROAD NETWORK					
04	01/06/2021	UPDATED TO INCLUDE RAIL BALTIC LINE	DWE	DWE			
03	21/04/2021	UPDATED SITE LAYOUT AND CAPACITY	DWE	DWE			
01	13/03/2021	UPDATED SITE BOUNDARY AND CAPACITY	DWE	DWE			
00	19/02/2021	FIRST ISSUE	MND	AJ			

DRAWING NUMBER
DS-0002
REV
05

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