STRATA SOLAR LLC
50101 Governors Drive, Suite 280
Chapel Hill, NC 27517
919-960-6015
www.stratasolar.com
NC License No.: D-0298

DEVELOPER / CONSULTANTS

PROJECT NAME & ADDRESS

CHATHAM PARK FARM SOLAR
ELECTRIC POWER PLANT
MONCURE-PITTSBORO RD
PITTSBORO, NC 27559
CHATHAM COUNTY

DATE	01/14/2014
PROJECT NUMBER	C-017-11-CP
PROJECT NAME	CHATHAM PARK
SYSTEM SIZE	20.00 MWp AC
ENGINEER	BTN
CHECKER	BTN
DRAWN BY	JRB

SEAL

STRATA SOLAR, LLC ENGINEERING DEPT.
NOT FOR CONSTRUCTION
PRELIMINARY
1/29/14

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REVISIONS

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DRAWING DESCRIPTION

SITE LOCATION EXHIBIT

SCALE

1" = 400'

C 2.0

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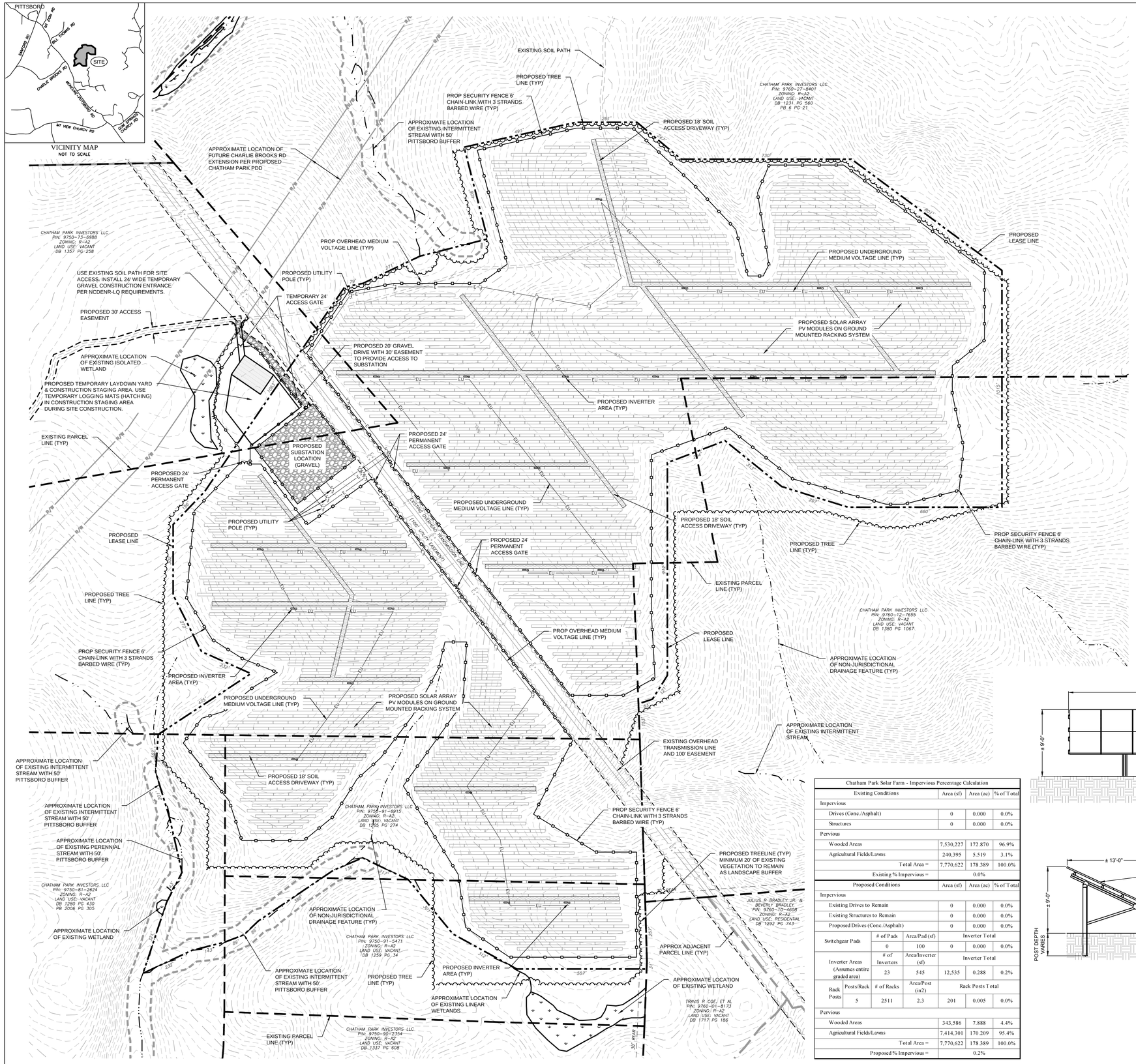


NOTES

1. EXISTING PROPERTY INFORMATION

PIN	OWNER	DB/PG	ZONING	ACREAGE	LAND USE
9750-73-6988	CHATHAM PARK INVESTORS, LLC	1357/258	R-A2	76.58	VACANT
9750-81-2624	CHATHAM PARK INVESTORS, LLC	1280/430	R-A2	50.87	VACANT
9750-91-5471	CHATHAM PARK INVESTORS, LLC	1259/34	R-A2	25.49	VACANT
9750-91-6915	CHATHAM PARK INVESTORS, LLC	1265/274	R-A2	25.41	VACANT
9760-12-7655	CHATHAM PARK INVESTORS, LLC	1380/1067	R-A2	112.24	VACANT
9760-27-8401	CHATHAM PARK INVESTORS, LLC	1231/560	R-A2	1763.29	VACANT
		TOTAL ACREAGE		2053.88	

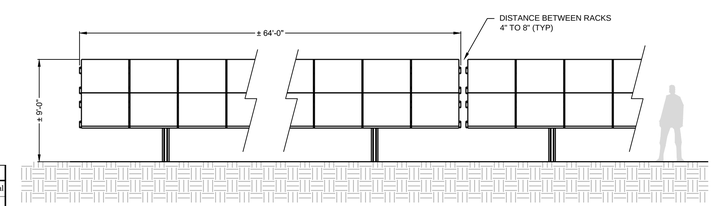
SITE ADDRESS: MONCURE-PITTSBORO RD., PITTSBORO, CHATHAM COUNTY, NC
PROPOSED LEASE AREA: 178.39 AC
PROPOSED DISTURBED AREA: 185.65 AC
RIVER BASIN: CAPE FEAR
WATERSHED: JORDAN LAKE (WS-IV)
MINIMUM SETBACK REQUIREMENTS:

ZONING	R-A2
FRONT	50'
SIDE	25'
REAR	30'

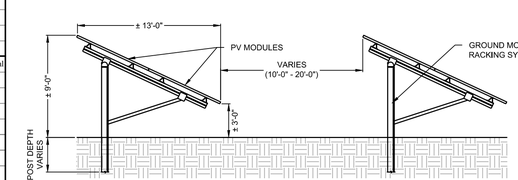
2. THE PURPOSE OF THIS PLAN IS FOR REVIEW AND APPROVAL BY THE TOWN OF PITTSBORO PLANNING DEPARTMENT TO CONSTRUCT A SOLAR ELECTRIC POWER PLANT. ALL INFORMATION SHOWN IS FOR PLANNING PURPOSES ONLY.
3. TOPOGRAPHIC DATA & EXISTING IMPROVEMENTS SHOWN ON THIS PLAN IS PER NCDOT LIDAR TOPOGRAPHY, CHATHAM COUNTY GIS AND AERIAL IMAGERY.
4. WATERS OF THE US SHOWN PER "CHATHAM PARK WETLAND APPROXIMATION" BY S&EC DATED 01/19/09 INCLUDED WITH USACOE APPROVED JURISDICTIONAL DETERMINATION DATED 05/12/10.
5. THE PROPERTY SHOWN HEREON DOES NOT CONTAIN SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD (I.E. 100-YR. EVENT) PER FEMA FIRM MAP PANELS NO. 3710975000J (NOT AVAILABLE) AND 3710976000J EFFECTIVE DATE FEBRUARY 2, 2007.
6. ALL RIGHT-OF-WAYS ARE PUBLIC, UNLESS NOTED OTHERWISE.
7. UTILITY LINES AND SERVICES SHOWN HEREON ARE APPROXIMATE PER AERIAL PHOTOGRAPHY OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CALL NC ONE CALL CENTER BEFORE DIGGING AT 811.
8. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON-SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION.
9. A SEDIMENT AND EROSION CONTROL PLAN WILL BE APPROVED BY NCDENR-LQS PRIOR TO BEGINNING CONSTRUCTION.
10. A DRIVEWAY PERMIT WILL BE APPROVED BY NCDOT PRIOR TO BEGINNING CONSTRUCTION.
11. PROJECT AREA, INCLUDING CONSTRUCTION STAGING AREAS, WILL BE CLEARED AND GRUBBED AS NECESSARY, RETAINING PRE-DEVELOPMENT DRAINAGE PATTERNS (I.E. NO MASS GRADING). A PORTION OF PROJECT AREAS MAY CONSIST OF TREE CLEARING ONLY (NO GRUBBING) TO ALLEVIATE SHADING OF THE ARRAY, AS INDICATED ON THE SITE PLAN. MINOR GRADING (APPROX. 545 SF) WILL OCCUR AROUND INVERTER AREAS TO DIVERT SURFACE DRAINAGE. CONSTRUCTION STAGING AND AREAS SUBJECT TO RUTTING DURING CONSTRUCTION WILL BE TEMPORARILY STABILIZED WITH LOGGING MATS, WHICH WILL BE REMOVED FOLLOWING CONSTRUCTION. THE ONLY PERMANENT IMPERVIOUS SURFACES WILL BE TWO CONCRETE SLABS, TOTALING LESS THAN 100 SF AT EACH INVERTER.
12. PROPOSED TEMPORARY LAYDOWN YARD/CONSTRUCTION STAGING AREA TO BE USED DURING SITE CONSTRUCTION. A PORTION OF THIS AREA (HATCHED) WILL BE COVERED WITH LOGGING MATS TO ALLOW DELIVERY OF CONSTRUCTION MATERIALS. PRIOR TO CONSTRUCTION, THIS AREA IS COMPACTED BY A SMOOTH DRUM ROLLER TO REDUCE/PREVENT RUTTING. FOLLOWING CONSTRUCTION, THE LOGGING MATS ARE REMOVED AND THE ENTIRE AREA IS RESTORED TO PRE-CONSTRUCTION CONDITIONS.
13. ACCESS AISLES SHOWN ON THIS PLAN INDICATE CONSTRUCTION AND MAINTENANCE ACCESS POINTS FOR INGRESS/EGRESS. PRIOR TO CONSTRUCTION, THESE AISLES ARE COMPACTED BY A SMOOTH DRUM ROLLER TO REDUCE/PREVENT RUTTING. LOGGING MATS MAY BE PLACED IN HIGH TRAFFIC OR POORLY DRAINING AREAS DURING CONSTRUCTION ACTIVITIES TO IMPROVE ACCESS. NO PERMANENT IMPROVEMENTS OR IMPERVIOUS SURFACES (I.E. GRAVEL OR ASPHALT) WILL BE INSTALLED IN ACCESS AISLES FOR CONSTRUCTION OR MAINTENANCE ACTIVITIES.
14. PROPOSED 24' ACCESS GATE (TWO 12' SECTIONS) IS 6' TALL CHAIN LINK WITH 3 STRANDS OF BARBED WIRE. GATE WILL BE LOCKED WITH STANDARD KEYED OR COMBINATION LOCK. EMERGENCY PERSONNEL (AS DESIGNATED BY PITTSBORO AND CHATHAM COUNTY) WILL BE PROVIDED A KEY OR COMBINATION FOR ACCESS.
15. NO LIGHTING IS PROPOSED FOR THIS SITE.
16. ALUMINUM SIGNS ("DANGER - HIGH VOLTAGE" AND "DANGER - NO TRESPASSING") MEASURING 14" X 10" IN SIZE, WILL BE PLACED ON PERMANENT SECURITY FENCING, ALTERNATING EVERY 100' AROUND THE ARRAY.
17. SYSTEMS, EQUIPMENT AND STRUCTURES WILL NOT EXCEED TWENTY-FIVE (25) FEET IN HEIGHT WHEN GROUND MOUNTED. EXCLUDED FROM THIS HEIGHT REQUIREMENT, HOWEVER, ARE ELECTRIC TRANSMISSION LINES AND UTILITY POLES.
18. NOISE LEVELS MEASURED AT THE PROPERTY LINE WILL NOT EXCEED FIFTY (50) DECIBELS WHEN LOCATED ADJACENT TO AN EXISTING RESIDENCE OR RESIDENTIAL DISTRICT.

Chatham Park Solar Farm - Impervious Percentage Calculation

Existing Conditions		Area (sf)	Area (ac)	% of Total
Impervious				
Drives (Conc./Asphalt)		0	0.000	0.0%
Structures		0	0.000	0.0%
Pervious				
Wooded Areas		7,530,227	172.870	96.9%
Agricultural Fields/Lawns		240,395	5.519	3.1%
Total Area =		7,770,622	178.389	100.0%
Existing % Impervious =		0.0%		
Proposed Conditions		**Area (sf)**	**Area (ac)**	**% of Total**
Impervious				
Existing Drives to Remain		0	0.000	0.0%
Existing Structures to Remain		0	0.000	0.0%
Proposed Drives (Conc./Asphalt)		0	0.000	0.0%
Switchgear Pads	# of Pads	Area/Pad (sf)	Inverter Total	
	0	100	0	0.000	0.0%
Inverter Areas (Assumes entire graded area)	# of Inverters	Area/Inverter (sf)	Inverter Total	
	23	545	12,535	0.288	0.2%
Rack Posts	Posts/Rack	# of Racks	Area/Post (in2)	Rack Posts Total	
	5	2511	2.3	201	0.005	0.0%
Pervious				
Wooded Areas		343,586	7.888	4.4%
Agricultural Fields/Lawns		7,414,301	170.209	95.4%
Total Area =		7,770,622	178.389	100.0%
Proposed % Impervious =		0.2%		



TYPICAL RACK FRONT ELEVATION
NOT TO SCALE



TYPICAL RACK SIDE ELEVATION
NOT TO SCALE

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CHECKER	BTN
DRAWN BY	JRB

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 024475 ENGINEER BRENT T. NIEMANN
1/29/14

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DRAWING DESCRIPTION
SPECIAL USE SITE PLAN

SCALE
1" = 200'

C 2.1

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DRAWING DESCRIPTION

OVERALL SITE PLAN AND ACCESS EXHIBIT

SCALE

1" = 200'

C 2.2

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