

Plainfield Zoning Board of Adjustment and Planning Board

August, 2017

53.3kW Array

- Would supply ~73,000 kWh per year net metered electrical power for Meriden Village Water District
- Construction would occur this year

- Estimated 30-year system generation:
~2,000,000 kWh
- Estimated CO₂ avoided over 30-years of system operation: ~1,860,000 lbs. CO₂
- Equivalent to carbon emissions from burning ~95,000 gallons of gasoline

- Application for Building permit for 53.3kW/AC (>7kW requiring ZBA special exemption hearing) ground mounted solar photovoltaic array on MVWD grounds.
- All ground mounted SES connected to commercial meter require site plan review by the Planning Board

- Names and addresses of the owners of the property where SES is proposed
- Abutter list
- Written description of the project
- Site map of the property and proposed facility design
- Visual analysis
- Decommissioning plan

- Location: Minimize visual impact
- Fencing: Not required but may be deemed necessary by Town's boards
- Utilities: distribution lines should be underground if possible
- Approved solar components
- Utility Company Approval: Liberty Interconnection Application
- Decommissioning: Must provide provisions acceptable to the town that insure that the facility will be removed when no longer in use.

- Applicant:

Meriden Water Solar One, LLC
For Meriden Village Water District

PIERSON, NATHANIEL F.
PO BOX 405
MERIDEN, NH 03770

LEGARE CATHERINE I GARFIELD
LEGARE PETER L
PO BOX 155
MERIDEN, NH 03770

PLAINFIELD SCHOOL DISTRICT
92 BONNER RD
MERIDEN, NH 03770

SWARTS, JOHANNES &
PERRY, HEATHER J
PO BOX 36
PLAINFIELD, NH 03781

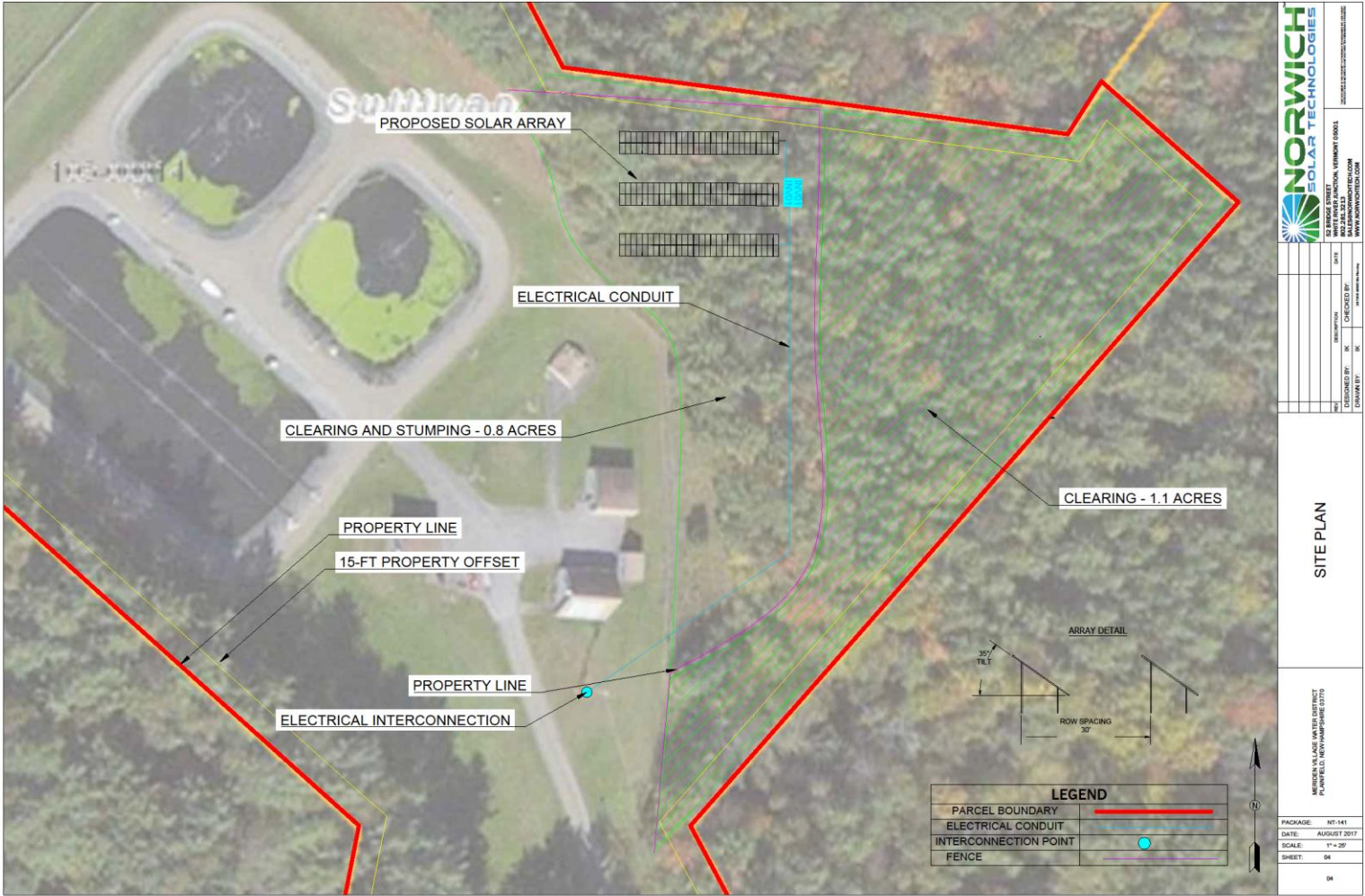
MERIDEN VILLAGE WATER DISTRICT
C/O DONALD GARFIELD
PO BOX 84
MERIDEN, NH 03770

RAMSEY, MARC C
RAMSEY, JENNY L
64 BONNER ROAD
MERIDEN, NH 03770

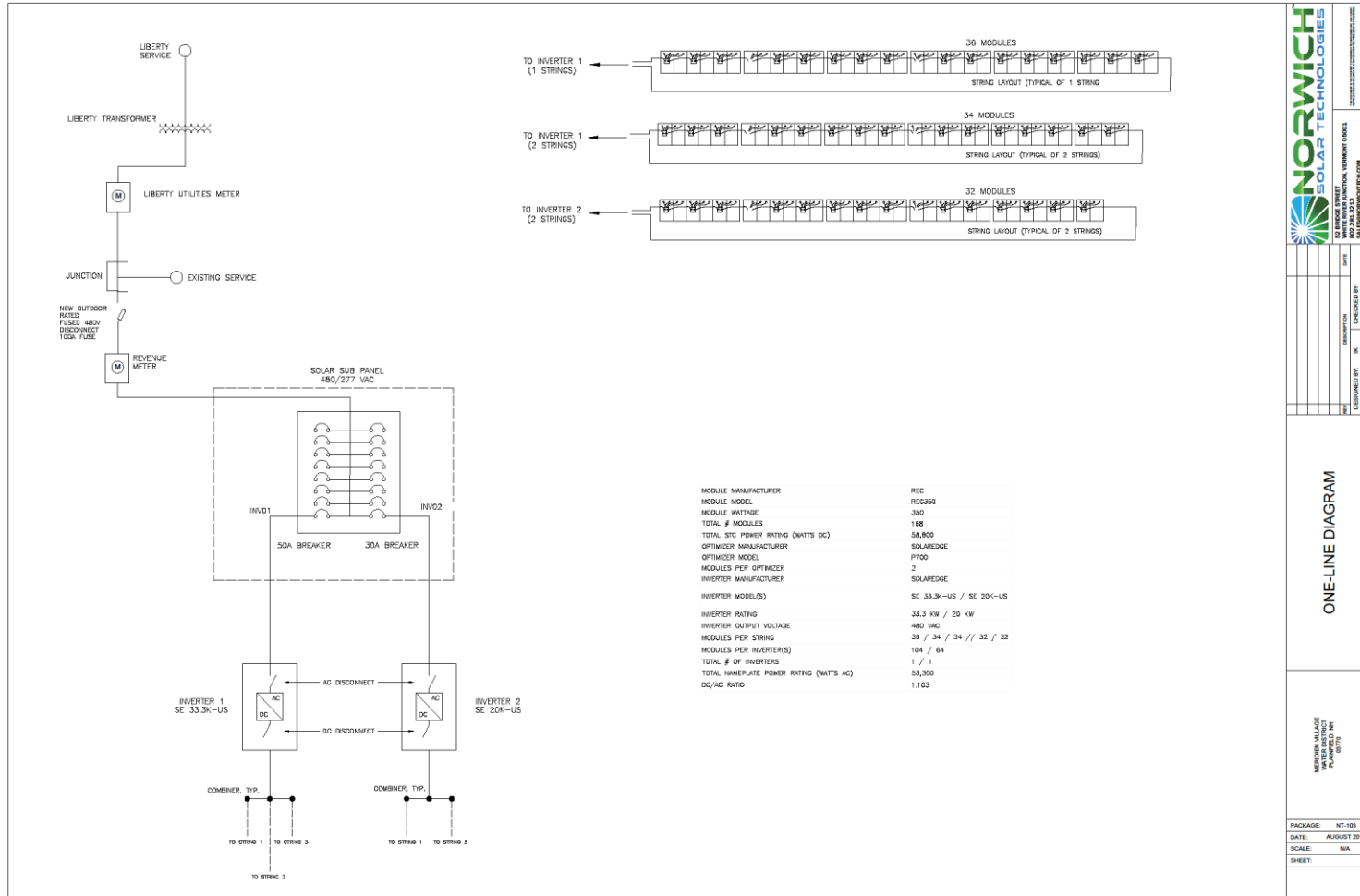
KIMBALL UNION ACADEMY, TEES OF
PO BOX 188
MERIDEN, NH 03770

- 53.3 kW/AC and 58.8 kW/DC ground-mounted solar array (<14ft height above ground) located adjacent to sewer treatment plant in Meriden. The Rural Residential site is buffered and screened on all sides by the 18 acre applicant owned parcel. Interconnection to the electrical grid and Liberty Utilities will be via MVWD's electrical service.

Site Plan



Electrical Diagram



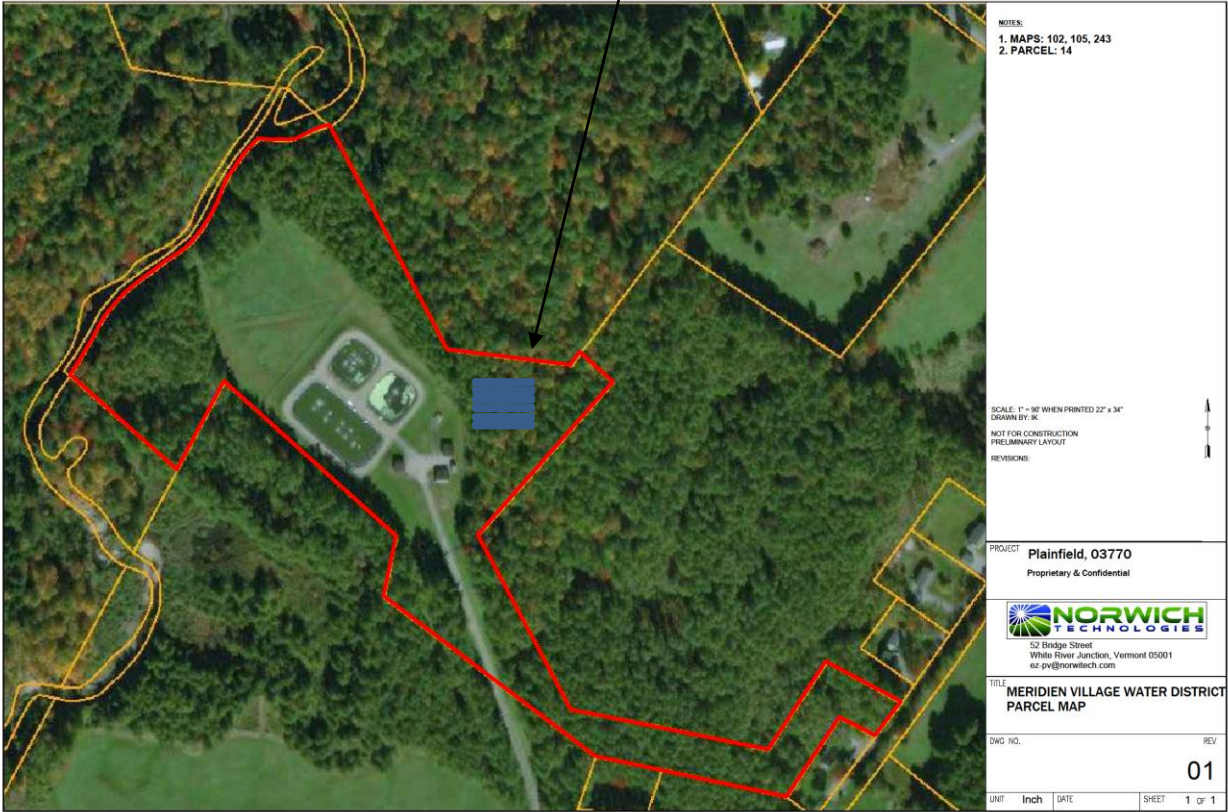
NORWICH SOLAR TECHNOLOGIES
 50 BRIMBLE STREET, SUITE 100, BIRMINGHAM, ALABAMA 35243-3328
 TEL: 205.988.8888 FAX: 205.988.8889
 WWW.NORWICHTECH.COM

ONE-LINE DIAGRAM

INTERVIEW IN PLACE WATER EXTRACT UNIT 08/17/17

| | |
|----------|-------------|
| PACKAGE: | NT-103 |
| DATE: | AUGUST 2017 |
| SCALE: | N/A |
| SHEET: | |

Solar array completely screened



- Chain link fence similar to that existing around the water treatment plant will be extended to encompass the solar array.

- Remove modules
- Disassemble rack/cut aluminum
- Pull posts
- Remove electrical equipment and underground wires
- Recycle/dispose of materials
- Grade and seed areas of disturbance

THE END

- Questions?