DEFINITIVE SUBDIVISION PLAN

PARCEL NUMBER 40-14-9 **278 OSBORNE ROAD** TOWN OF WARE, HAMPSHIRE COUNTY BK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY **MASSACHUSETTS**

TOWN OF WARE

AREA -60,000 S.F FRONTAGE - 150' FRONT - 25 FT. (SOLAR)

50 FT. MIN BUFFER TO RESIDENTIAL USE FOR SOLAR FIELDS

TOWN OF HARDWICK

AREA -60,000 S.F FRONTAGE - 200'

50 FT. MIN BUFFER TO RESIDENTIAL USE

RECORD PARCELS (ASSESSORS)

HARDWICK 124/094.0-0000-0014.0

RECORD OWNERS

JOEL J HARDER 54 GOULD ROAD WARE, MA 01082 DB.11374 PG.181 DB.51160 PG.177

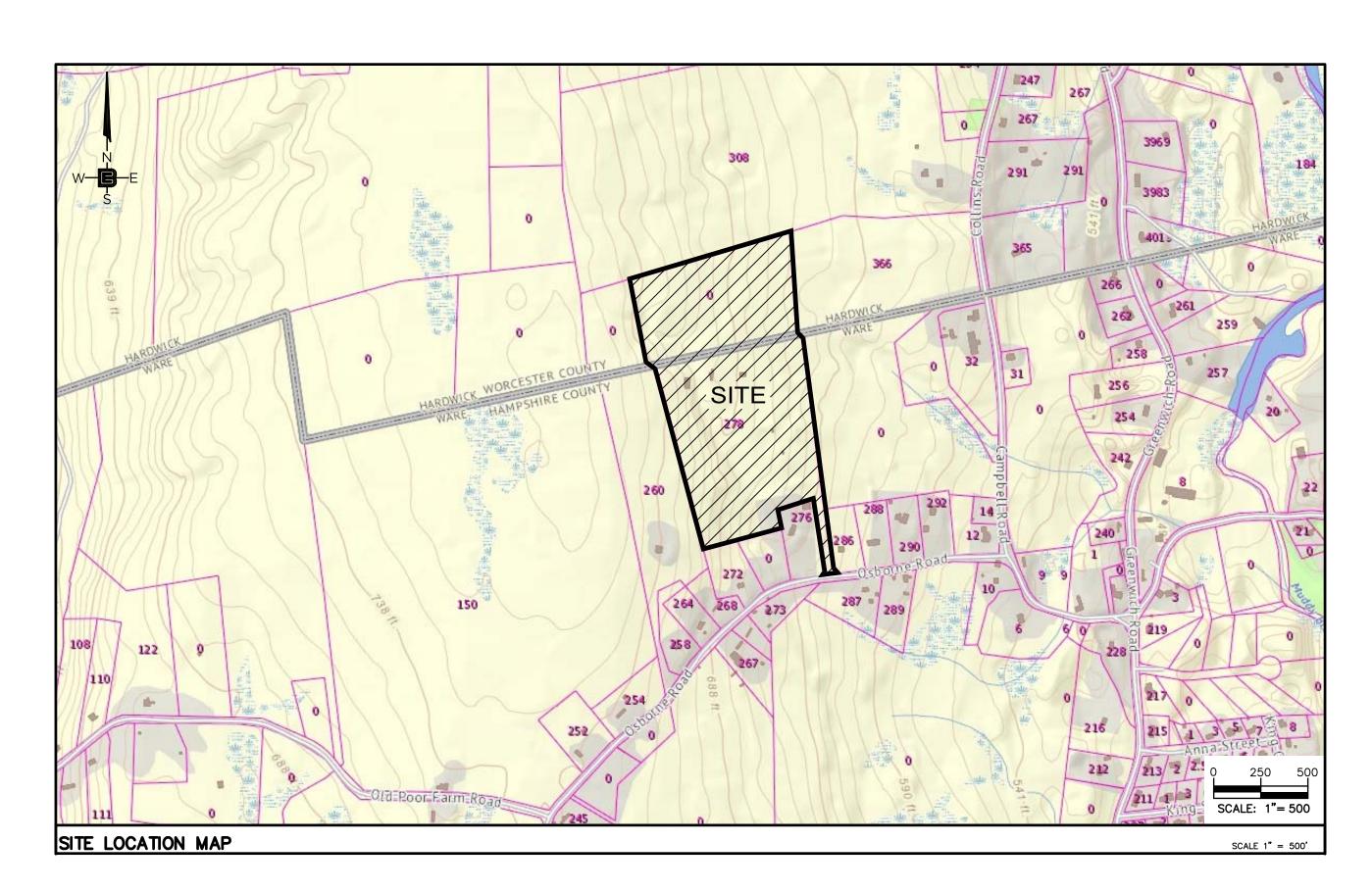
DEVELOPER/APPLICANT MELINK SOLAR DEVELOPMENT

276 N. FOREST AVE. NE MARIETTA, GA 30060

PERMITS

SPECIAL PERMIT - WARE PLANNING BOARD

NOTICE OF INTENT- WARE CONSERVATION COMMISSION NOTICE OF INTENT- HARDWICK CONSERVATION COMMISSION SITE PLAN REVIEW - HARDWICK PLANNING BOARD



| | DRAWING LIST | | | | | | |
|--------|---|------------------------|--------|--|--|--|--|
| DWG. # | DRAWING TITLE | DATED/ LAST REVISED | REV. # | | | | |
| C-1 | COVER SHEET | 1-29-21 | 3 | | | | |
| C-2 | EXISTING CONDITIONS PLAN | 1-29-21 | 1 | | | | |
| C-3 | OVERALL SITE AND SUBDIVISION PLAN | 1-11-21 | 2 | | | | |
| C-4 | DETAILED SUBDIVISION PLAN | 1-11-21 | 2 | | | | |
| C-5 | ROAD PLAN & PROFILE | 1-29-21 | 3 | | | | |
| C-5.1 | GRADING & DRAINAGE PLAN (SECTION 1) | 1-29-21 | 2 | | | | |
| C-5.2 | GRADING & DRAINAGE PLAN (SECTION 2) | 12-10-20 | 0 | | | | |
| C-5.3 | SOIL EROSION & SEDIMENT CONTROL PLAN | 01-29-21 | 0 | | | | |
| C-5.4 | VEHICLE CIRCULATION PLAN | 01-29-21 | 0 | | | | |
| C-6 | SITE DETAILS | 01-29-21 | 2 | | | | |
| C-7 | SITE DETAILS - 2 | 7-31-20 | 0 | | | | |
| C-8 | SOIL EROSION & SEDIMENT CONTROL AND LANDSCAPE DETAILS | 01-29-21 | 0 | | | | |
| | | • | | | | | |

THE UNDERSIGNED AGREE TO COMPLY WITH ALL RULES AND REGULATIONS FOR THE SUBDIVISION OF LAND IN THE TOWN OF WARE AS ADOPTED BY THE TOWN AND THE PLANNING BOARD AND ALL FURTHER AMENDMENTS OR ADDITIONS THERETO.

DATE: ___

TOWN OF WARE PLANNING BOARD TOWN OF HARDWICK PLANNING BOARD

| RESERVED FOR USE BY THE REGISTRY OF DEEDS | THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEEDS REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF THE PROPERTY |
|--|--|
| | SHOWN. |
| | I HEREBY CERTIFY THAT THIS IS A TRUE PLAN BASED ON FIELD SURVEYS AND THE LATEST DEEDS AND PLANS OF RECORD AND THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS. |
| | BRUCE A. FITZBACK |
| | BINGGE /II / II / BINGIN |
| | DATE P.L.S. #37731 |

CALISTO J. BERTIN, P.E



BRUCE A. FITZBACK, P.L.S MA LIC. NO. 37731 CT LIC. NO. 16970

| NOT VALID UNTIL SEALED | | _ | | |
|------------------------|---------------------------|-----------------------|---------------------------|----------|
| | E.Q. | E.Q. | E.Q. | |
| | -21 REVISED DRAWING LIST. | REVISED DRAWING LIST. | :20 REVISED DRAWING LIST. | REVISION |
| | -21 | -21 | 50 | ш |

COVER SHEET

LARGE SCALE **SOLAR ARRAY**

278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

> CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 C.J.B. 1" = 100' 18M-217 07-31-20



GENERAL NOTES:

1. BOUNDARIES SHOWN ARE THE RESULTS OF AN ACTUAL FIELD SURVEY JANUARY 2 THRU JANUARY 22, 2019. SURVEY BASED ON AVAILABLE MAPS, DEEDS OF RECORD AND PHYSICAL EVIDENCE, BUT ARE SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AGREEMENTS, AND RIGHTS AND ENCUMBRANCES OF RECORD THAT AN ACCURATE AND THOROUGH TITLE SEARCH MAY DISCLOSE.

2. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND AND DEPICT THEM ON THE SURVEY; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.

3. HORIZONTAL DATUM BASED ON NAD 83 MA11, VIA GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS).

4. VERTICAL DATUM BASED ON NAVD 88, GEOID 12B,VIA GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS).

5. WETLANDS DELINIATED BY ECOTEC, INC IN OCTOBER 2019.

6. TOPOGRAPHICS PROVIDED FROM EASTERN TOPOGRAPHICS WITH A PHOTO DATE OF JANUARY 7, 2019 AND COMPILATION DATE OF OCTOBER 11, 2019 WITH A SCALE OF 1"=40' AND A CONTOUR INTERVAL OF 2FT.

7. ABUTTERS NAMES ARE IN RESPECT TO THE LATEST ASSESSORS RECORDS AVAILABLE.

TAX MAP REFERENCES:

WARE ASSESSORS TAX MAP 40-14-9

HARDWICK ASSESSORS
TAX MAP REF: MAP 94, LOT 14

TAX MAP REF: MAP 94, LOT 14

RECORD OWNERS
JOEL J HARDER
54 GOULD ROAD
WARE, MA 01082
DB.11374 PG.181
DB.51160 PG.177

PLAN REFERENCES:
(HAMPSHIRE COUNTY REGISTRY OF DEEDS)
PLAN BOOK 186 PLAN 24

LEGEND

| СВ | CATCH BASIN | 0 | IRON PIPE |
|------|------------------|-------------|----------------|
| UP | UTILITY POLE | • | DRILL HOLE |
| IR | REBAR | | REBAR SET |
| DH | DRILL HOLE | Ŀ | BOUND SYMBOL |
| IP | IRON PIPE | 0 | UTILITY POLE |
| FND | FOUND | ∞ | STONE WALL |
| BND | BOUND | | WELL |
| AP: | ASSESSORS PARCEL | \triangle | BENCH MARK |
| HYD. | HYDRANT | | HYDRANT |
| GUY | GUY WIRE | 470 | |
| A | STUMP WITH WIRE | 0 | GUY WIRE |
| | STOWN WITH WINCE | (+) | TREE WITH WIRE |

WETLANDS LEGEND

WETLAND FLAG
 WL— WETLANDS BOUNDARY LINE
 50 FT WETLANDS BUFFER LINE
 100 FT WETLANDS BUFFER LINE

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

CT. LIC. NO. 12950 NILLIC, NO. 28

39 ELM STREET RIDGE, MA 01550 P 508.765.0195 F 508.765.0193 inengineering.com

Z

CT LIC. NO. 12950 NJ LIC. NO. 28845
MA LIC. NO. 40595 NY LIC. NO. 60022
NH LIC. NO. 9368 RI LIC. NO. 6694

BRUCE A. FITZBACK, P.L.S.

PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

NOT VALID UNTIL SEALED

-29-21 REVISED GENERAL NOTES.

REVISION

EXISTING
CONDITIONS
PLAN

LARGE SCALE SOLAR ARRAY

278 OSBORNE ROAD
PARCEL NUMBER 40-14-9
TOWN OF WARE, HAMPSHIRE COUNTY
NK 51160-177, LOT 14
TOWN OF HARDWICK, WORCESTER COUNTY
MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

| CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 | | | | | | |
|--|------------------------|--|--|--|--|--|
| DRAWN BY E.Q. | CHECKED BY C.J.B. | | | | | |
| SCALE 1" = 100' | PROJECT NO. 18M-217 | | | | | |
| DATE 07-31-20 | REVISION NO. 1 | | | | | |
| DRAWING NO. | | | | | | |

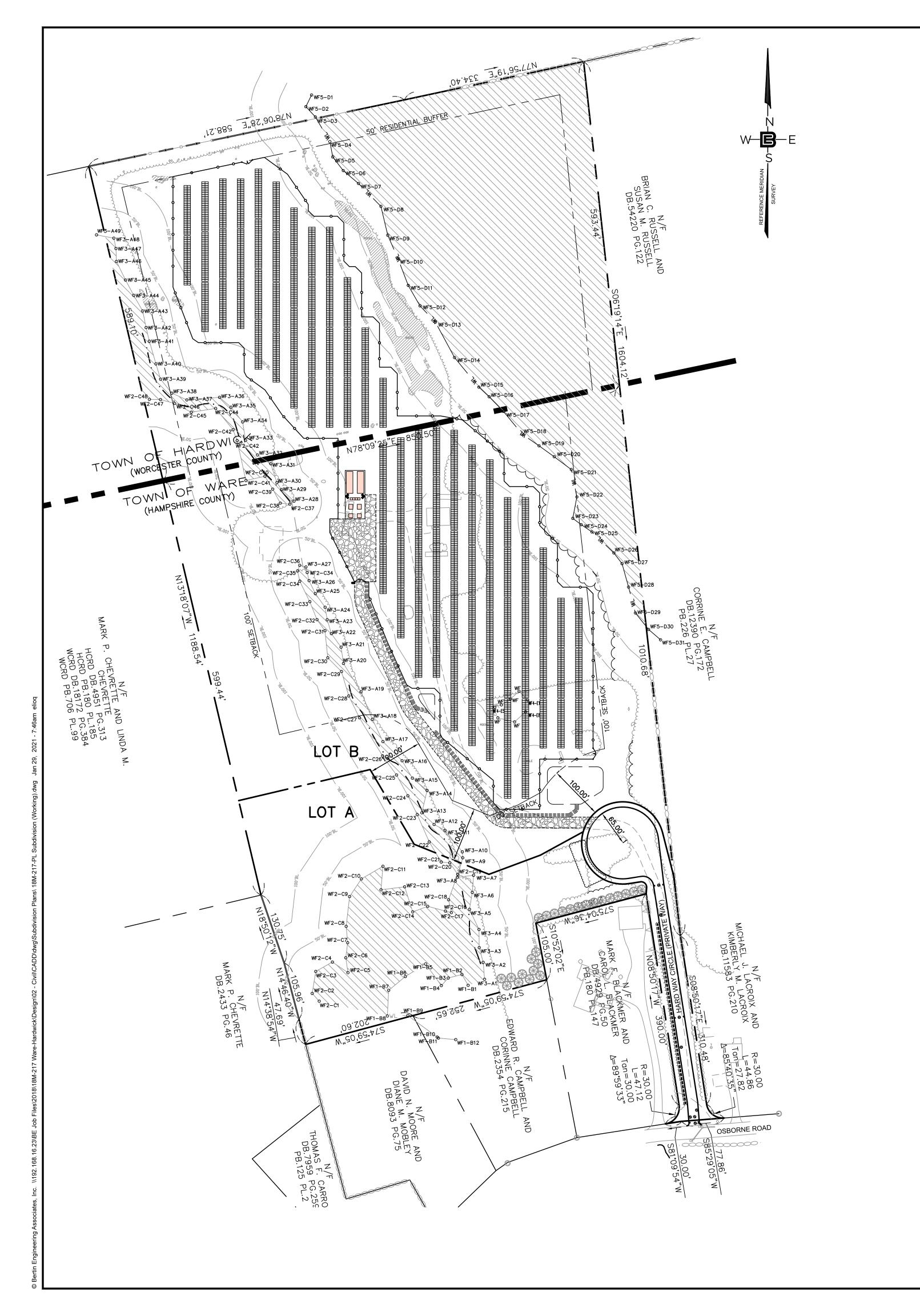
C-2

GRAPHIC SCALE

0 50 100 200 400

(IN FEET)

1 inch = 100 ft.





TOWN OF WARE ZONE: RR (RURAL RESIDENTIAL)

| | REQUIRED | LOT A | <u>LOT B</u> |
|---------------------|-----------------|-----------|--------------------------|
| AREA (SF) | 60,000 | 165,939.2 | 594,512.1 (TOWN OF WARE) |
| | | | 1,117,089.5 (TOTAL) |
| FRONTAGE (FT) | 150 | 262.2 | 348.1 |
| SETBACKS (ZONE RR): | | | |
| FRONT (FT) | 30 | TO COMPLY | N/A |
| SIDE (FT) | 30 | TO COMPLY | N/A |
| REAR (FT) | 40 | TO COMPLY | N/A |
| SETBACKS (SOLAR): | | | |
| FRONT (FT) | 100 | N/A | 129.9 |
| SIDE (FT) | 100 | N/A | 108.5 |
| | | | 102.6 |
| REAR (FT) | 100 | N/A | O (VARIANCE) |

SOLAR PANEL RACK

LEGEND

—50'BL— **50 FT WETLANDS BUFFER LINE**

-100'BL- 100 FT WETLANDS BUFFER LINE

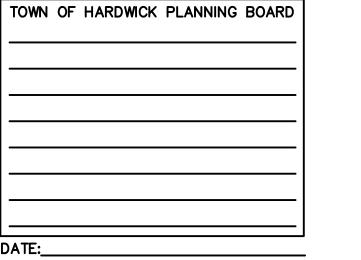
GENERAL NOTES

- 1. ALL FEATURES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PROPOSED FEATURES AS SHOWN IN FULL TONE EXISTING FEATURES ARE SHOWN IN HALF TONE EXISTING FEATURES TO BE REMOVED ARE SHOWN AS DASHED, OR ARE NOTED.
- 2. LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE AND SHOULD BE VERIFIED BEFORE EXCAVATION OR CONSTRUCTION BEGINS. CALL DIG SAFE SYSTEM, INC.: 811 OR 1-888-344-7233.
- 4. UNLESS OTHERWISE NOTED, MAINTAIN EXISTING YARD GRADES AND SLOPES.
- 5. ALL UTILITY CONNECTIONS ARE TO BE IN ACCORDANCE WITH LOCAL CODE.
- 6. THE SITE PLAN(S) SUPERSEDES ALL STANDARD DRAWINGS.
- 7. ALL WETLANDS DELINEATED BY ECOTEC INC., SEPTEMBER 2019.
- 8. THE FENCING WILL INCORPORATE A DESIGN OF THE EPC'S CHOOSING THAT WILL FACILITATE WILDLIFE MOVEMENT ACROSS THE PROPERTY.
- 9. ALL GATES TO BE INSTALLED WITH KNOX BOX AND SIGNAGE WITH EMERGENCY CONTACT INFORMATION SUBJECT TO NATIONAL GRID FINAL DESIGN AND CONSTRUCTION. KNOX BOX KEY TO BE GIVEN TO LOCAL FIRE DEPARTMENT.
- 10. NO PESTICIDES OR HERBISIDES ARE TO BE USED DURING CONSTRUCTION OR MAINTENANCE.

PRELIMINARY SOLAR PANEL OUTPUT

| 001101 | | | | | |
|------------------------|----------------------------|--|--|--|--|
| ARRAY | TOTAL | | | | |
| TOTAL NUMBER OF RACKS | 98 | | | | |
| PANELS PER RACK | 54 | | | | |
| TOTAL NUMBER OF PANELS | 94 x 54 = 5,076 | | | | |
| OUTPUT PER PANEL | 400W | | | | |
| TOTAL OUTPUT | 400W x 5,076 = 2,030,400 W | | | | |
| | (2.03 MW) | | | | |

PANEL COUNT AND ARRANGEMENT SUBJECT TO CHANGE BASED ON AVAILABILITY AND MANUFACTURER



| TOWN | OF | WARE | PLANNING | BOARD |
|--------|----|------|----------|-------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| DATE:_ | | | | |

FLOOD HAZARD NOTES

THIS SITE IS LOCATED WITHIN ZONE "C" AS PER THE FOLLOWING FLOOD INSURANCE RATE MAPS:

TOWN OF HARDWICK: COMMUNITY PANEL NO. 250307 0015 B, EFFECTIVE DATE SEPTEMBER 16, 1981.

TOWN OF WARE: COMMUNITY PANEL NO. 250172 0013 B, EFFECTIVE DATE AUGUST 17, 1981.

1 inch = 100 ft.

GRAPHIC SCALE

CERTIFICATE OF AUTHORIZATION 24GA28068900 / 21MH00002800 C.J.B. DJECT NO. 18M-217 1" = 100' 07-31-20

C-3

CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER

CT LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 60022 NH LIC. NO. 9368 RI LIC. NO. 6694



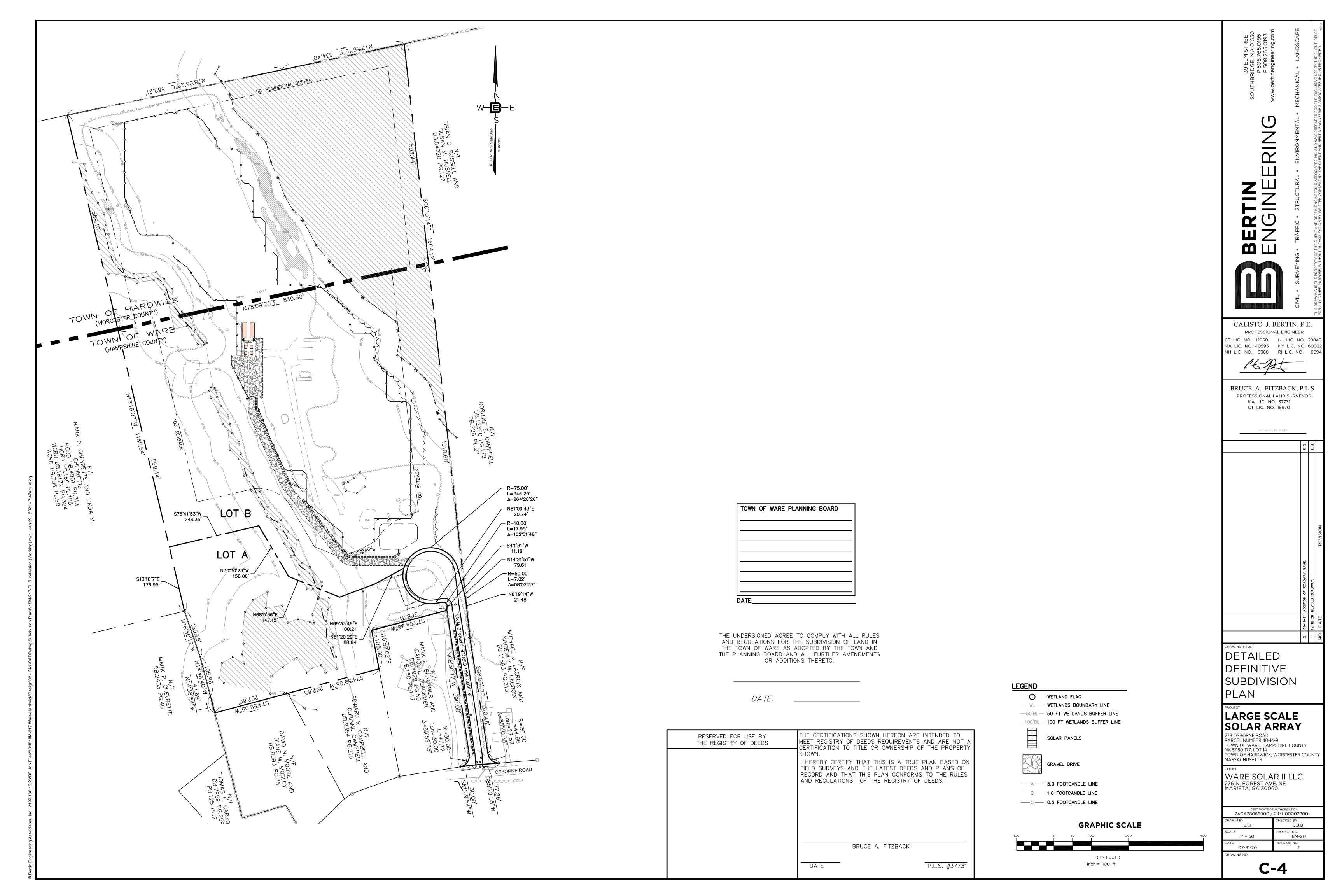
BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

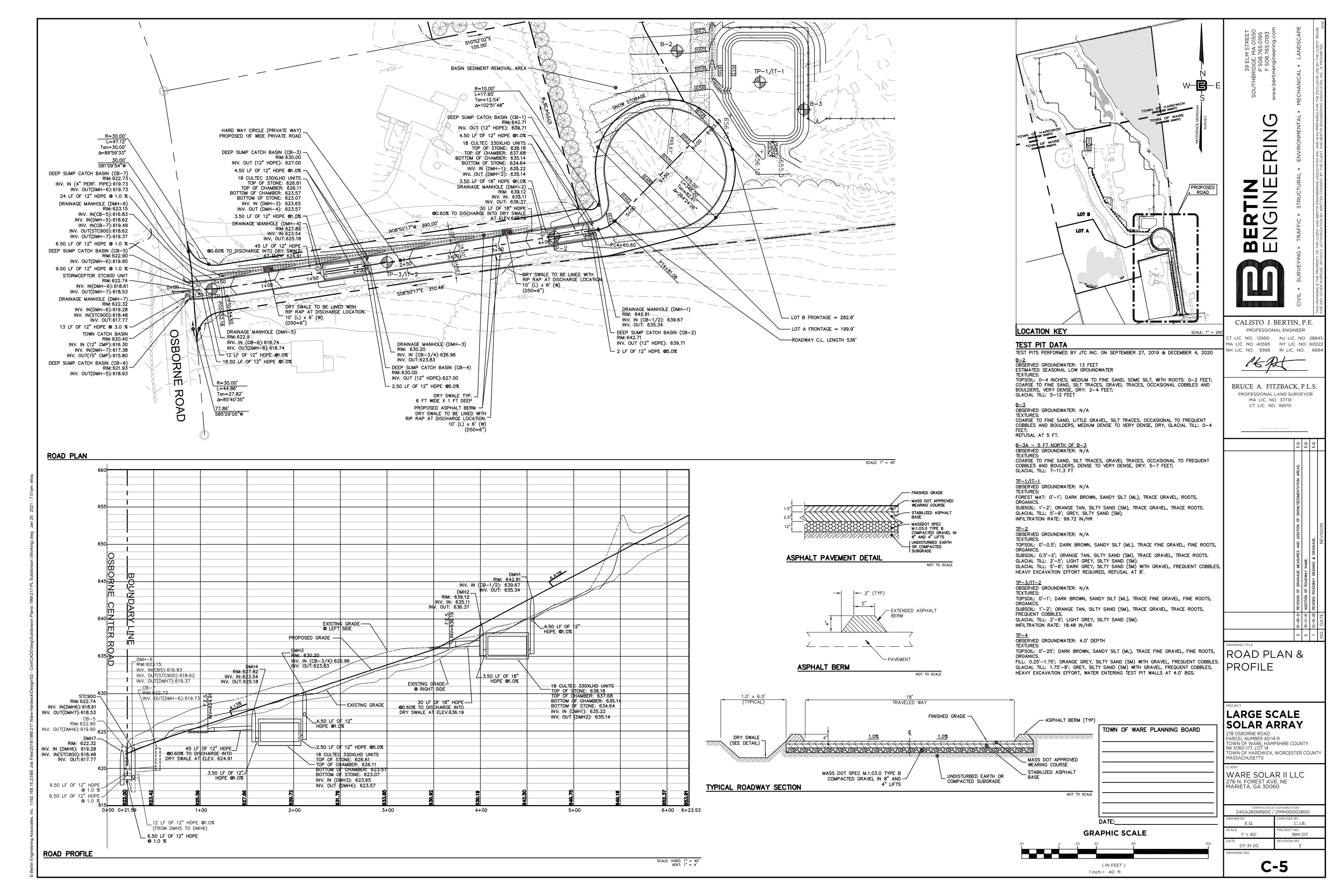
OVERALL SITE & SUBDIVISION PLAN

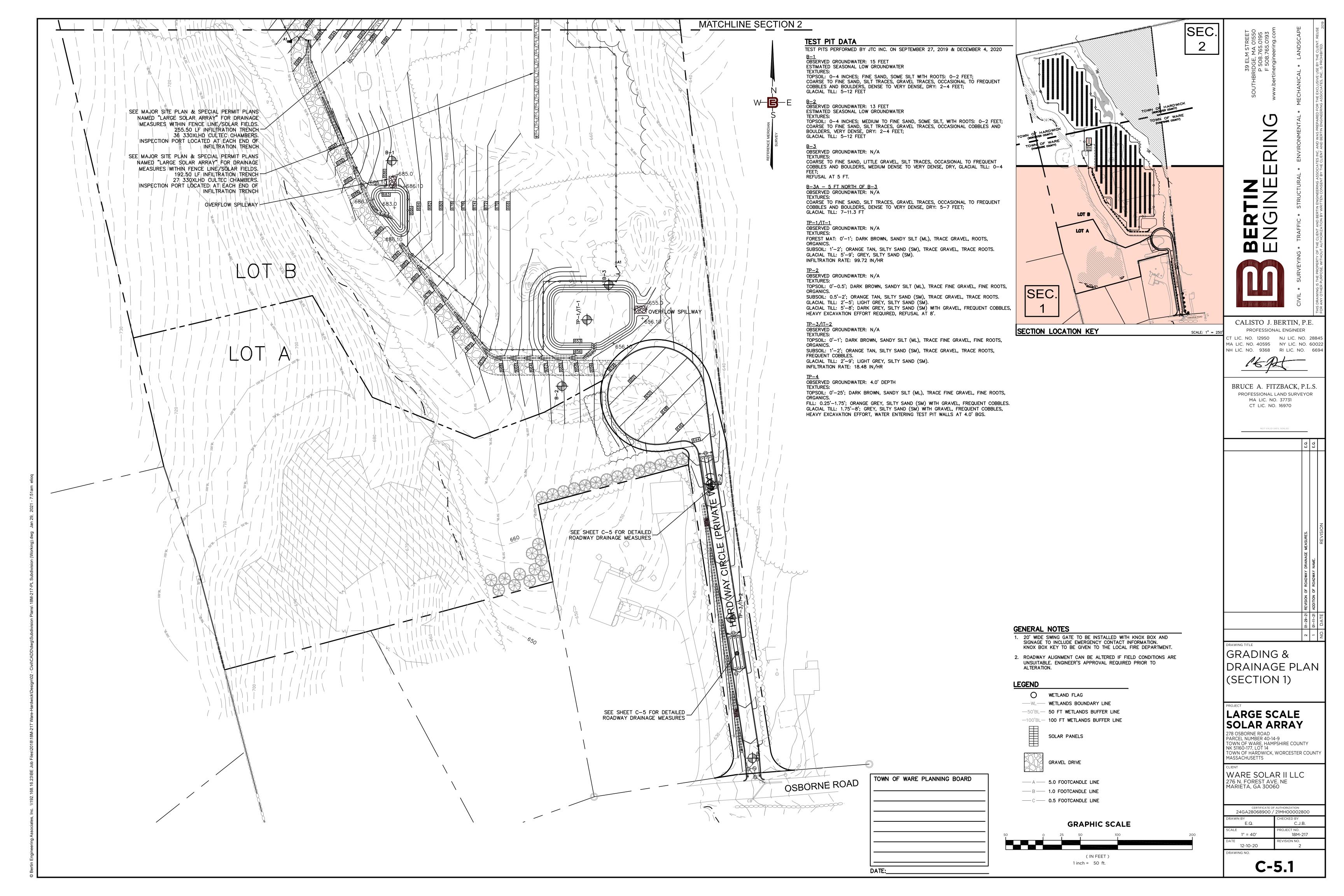
LARGE SCALE **SOLAR ARRAY**

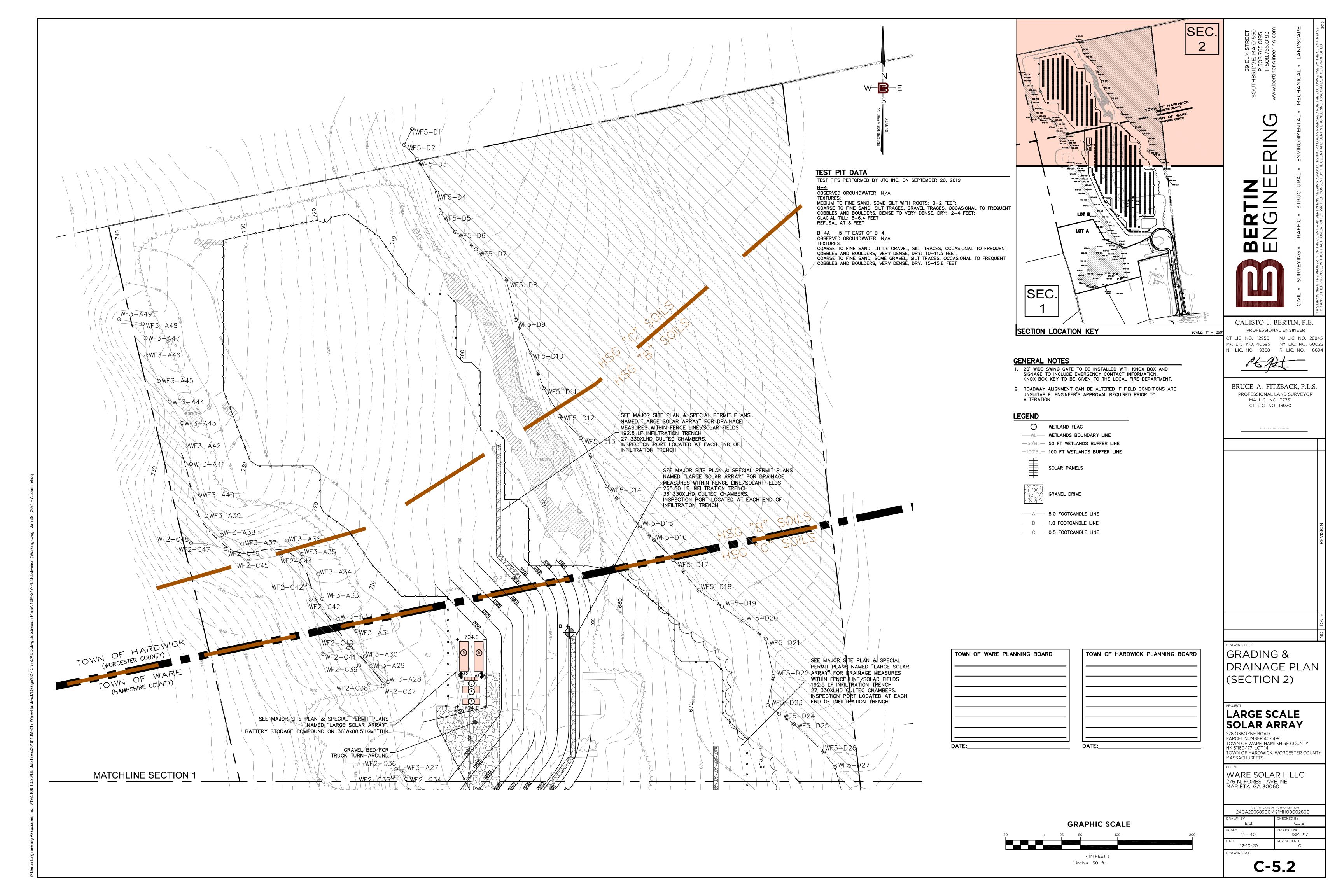
278 OSBORNE ROAD
PARCEL NUMBER 40-14-9
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NK 51160-177, LOT 14
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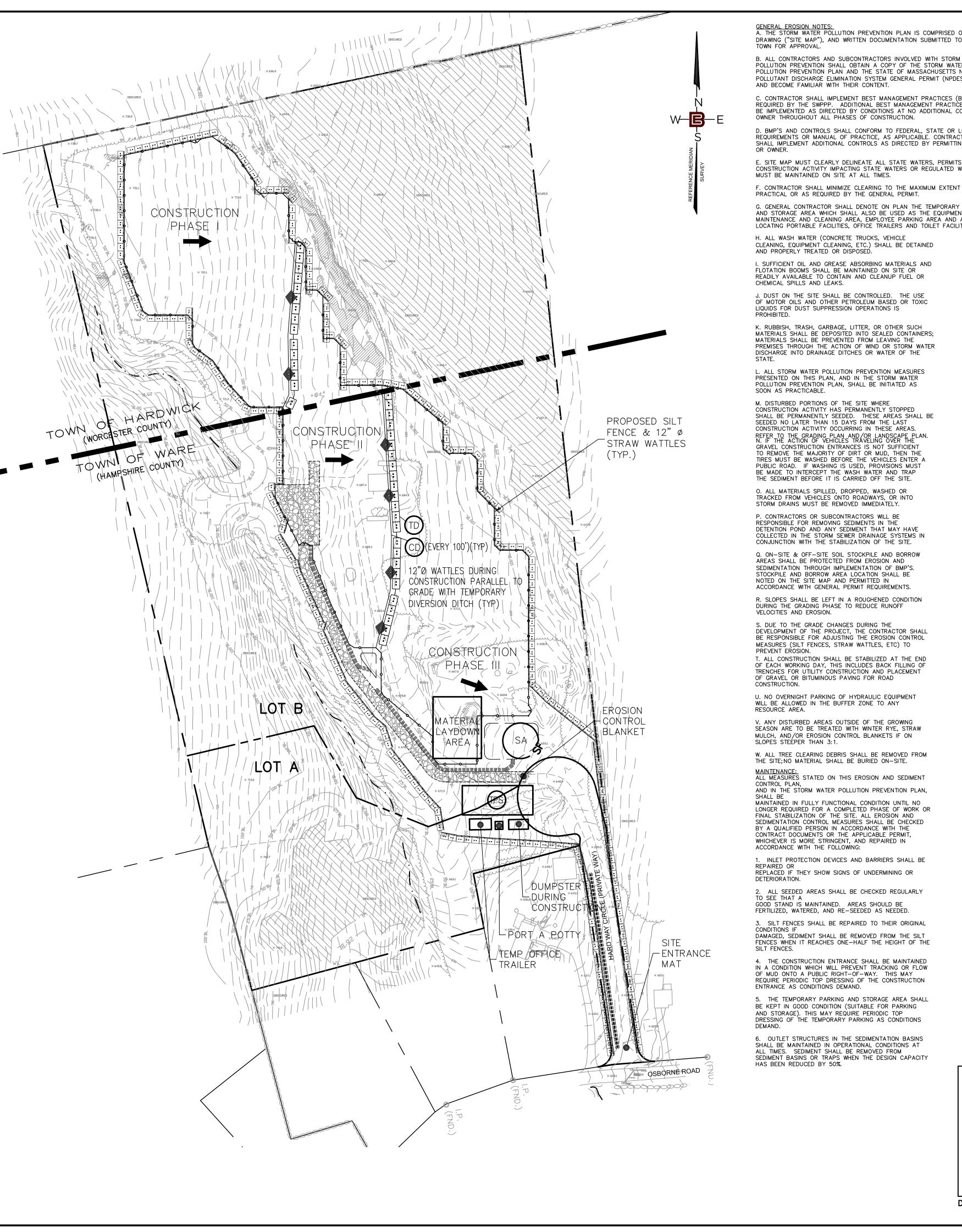
WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060











GENERAL EROSION NOTES:
A. THE STORM WATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING ("SITE MAP"), AND WRITTEN DOCUMENTATION SUBMITTED TO THE TOWN FOR APPROVAL.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF MASSACHUSETTS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENT.

C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY

E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING

AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES. H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE

AND PROPERLY TREATED OR DISPOSED. I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR

CHEMICAL SPILLS AND LEAKS. J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC

K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS; MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATER OF THE

.. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 15 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. N. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE

TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

O. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS, OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

RESPONSIBLE FOR REMOVING SEDIMENTS IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

Q. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S. STOCKPILE AND BORROW AREA LOCATION SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS

R. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

S. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW WATTLES, ETC) TO T. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD

U. NO OVERNIGHT PARKING OF HYDRAULIC EQUIPMENT WILL BE ALLOWED IN THE BUFFER ZONE TO ANY

V. ANY DISTURBED AREAS OUTSIDE OF THE GROWING SEASON ARE TO BE TREATED WITH WINTER RYE, STRAW MULCH, AND/OR EROSION CONTROL BLANKETS IF ON

W. ALL TREE CLEARING DEBRIS SHALL BE REMOVED FROM THE SITE; NO MATERIAL SHALL BE BURIED ON-SITE.

 $\begin{array}{l} \underline{\text{MAINTENANCE:}} \\ \text{ALL MEASURES STATED ON THIS EROSION AND SEDIMENT} \end{array}$ AND IN THE STORM WATER POLLUTION PREVENTION PLAN, MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL DAMAGED, SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE

4. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO A PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

SEQUENCE OF CONSTRUCTION
THE FOLLOWING NARRATIVE DESCRIBES THE PLANNED CONSTRUCTION SEQUENCE WITH AN EMPHASIS

ON THE TIMING AND SEQUENCE OF EROSION/SEDIMENTATION CONTROL MEASURES: THE FOLLOWING CONSTRUCTION SEQUENCE WILL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION/SEDIMENT CONTROL MEASURES IS OPTIMIZED.

INSTALL STABILIZED CONSTRUCTION EXIT(S) AND SWPPP ENTRANCE SIGN. INSTALL EROSION CONTROL BARRIERS ON THE ENTIRE SITE (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE AND WATTLES.)

INSPECTIONS WILL BE CONDUCTED AFTER INSTÁLLATION OF EROSION CONTROL BARRIERS ARE . PREPARE TEMPORARY PARKING AND STORAGE AREA UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA POTTY, MATERIAL STORAGE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS

AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. CLEAR AND GRUB AREA FOR SEDIMENT BASINS. CONSTRUCT AND STABILIZE SEDIMENT BASINS. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

BEGIN CLEARING THE SITE. INSTALL TEMPORARY DIVERSION DITCHES AND CHECK DAMS. BEGIN GRADING THE SITE AS NEEDED.

START INSTALLATION OF DRAINAGE AND SITE WORK.

TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE OR 15 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE

FINAL PHASE

1. PERMANENTLY STABILIZE ANY REMAINING EXPOSED AREAS.

TEMPORARY DRAINAGE DITCHES TO BE REMOVED AND STABILIZED. SEDIMENT FROM BASINS TO BE REMOVED AND DISPOSED OF OFFSITE AND BASINS ARE TO BE CONVERTED TO FINAL DETENTION BASINS AS SHOWN ON SITE PLAN.
4. ONCE ENTIRE SITE IS STABILIZED, CALL FOR FINAL INSPECTION FROM SITE MONITOR. ONCE FINAL INSPECTION IS COMPLETE AND APPROVED, ALL EROSION CONTROL SILT FENCE AND

ONCE CONSTRUCTION IS COMPLETED, ALL DISTURBED AREAS ARE TO BE STABILIZED WITH LOAM

AND SEED UNLESS OTHERWISE SPECIFIÉD. 2. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION. 3. EXTRA EROSION CONTROL MATERIALS (STRAW WATTLES, SILT FENCE) EQUAL TO 200 LF SHALL BE KEPT ON SITE FOR EMERGENCY REPAIRS. THESE MATERIALS SHALL BE KEPT COVERED.

SEDIMENTATION BASINS

WATTLES ARE TO BE REMOVED.

CONTRACTOR TO LOCATE TEMPORARY SEDIMENTATION BASINS TO PREVENT SEDIMENT FROM LEAVING THE LIMIT OF WORK. TEMPORARY SEDIMENTATION BASINS ARE TO BE INSTALLED IN LOCATIONS UPSTREAM OF ANY EROSION CONTROL BARRIERS WHERE EXCESS SEDIMENT IS OBSERVED DURING THE CONSTRUCTION PROCESS. REMOVE AND PROPERLY DISPOSE OF SEDIMENT WHEN IT ACCUMULATES TO ONE-HALF DESIGN VOLUME. REMOVE BASIN AFTER DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, INSPECTED, AND APPROVED. BEFORE REMOVING DAM, DRAIN WATER AND REMOVE SEDIMENT; PLACE WASTE MATERIAL IN DESIGNATED DISPOSAL AREAS. SMOOTH SITE TO BLEND WITH SURROUNDING AREA AND STABILIZE. TEMPORARY SEDIMENTATION BASINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.

DESIGN RECOMMENDATIONS: DRAINAGE AREA NOT MORE THAN 100 ACRES. THE SEDIMENT BASIN SHOULD HAVE A MINIMUM VOLUME BASED ON INCH OF STORAGE FOR EACH ACRE OF DRAINAGE AREA. THIS VOLUME EQUATES TO 1800 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA. LENGTH-TO-WIDTH RATIO SHOULD BE 2:1 OR GREATER; DIVERT INFLOW TO UPPER END OF BASIN TO AVOID SHORT-CIRCUITING FLOW. LENGTH IS DEFINED AS THE AVERAGE DISTANCE FROM THE INLET TO THE OUTLET OF THE TRAP. BAFFLES TO SPREAD THE FLOW THROUGHOUT THE BASIN SHOULD BE INCLUDED. KEEP SEDIMENT POOL DEWATERED BETWEEN STORMS. CONSTRUCT SIDE SLOPES 2:1 OR FLATTER IN POOL AREA. PLACE 6" BARREL AND RISER ON FIRM, EVEN FOUNDATION. INSTALL ANTI-SEEP COLLAR SLIGHTLY AROUND PIPE. COVER PIPE TO A DEPTH OF 2 FEET MINIMUM OF HAND-COMPACTED BACKFILL BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. INSTALL TRASH GUARD WITH BARS SPACED 2-3 INCHES APART. INSTALL RIPRAP APRON AT PIPE OUTLET, WIDTH 5 FT MINIMUM. EXTEND APRON TO STABLE GRADE (LENGTH 10 FT MINIMUM). USE WELL-GRADED STONE WITH "D50" OF 9 INCHES MINIMUM.

| SOIL EROSION/SEDIME | NT | ΑTI | ON | CC | NT | ROI | _ 0 | PEI | RA ⁻ | 1017 | V T | IME | : S | CHE | EDU | LE | | |
|--------------------------------------|-----|-----|------|-----|-----|-----|------|-----|-----------------|------|------|------|-----|-----|-----|-----|-----|-----|
| NOTE: GENERAL CONTRACTOR TO | o c | ОМБ | PLET | ΕT | ABL | ΕV | /ITH | TH | EIR | SPI | ECIF | IC F | PRO | JEC | T S | CHE | DUL | E. |
| CONSTRUCTION SEQUENCE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ост | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN |
| ROUGH GRADE / SEDIMENT CONTROL | | | | | | | | | | | | | | | | | | |
| TEMPORARY CONTROL MEASURES | | | | | | | | | | | | | | | | | | |
| STRIP & STOCKPILE TOPSOIL | | | | | | | | | | | | | | | | | | |
| STORM FACILITIES | | | | | | | | | | | | | | | | | | |
| TEMPORARY CONSTRUCTION ROADS | | | | | | | | | | | | | | | | | | |
| FOUNDATION / BUILDING CONSTRUCTION | | | | | | | | | | | | | | | | | | |
| SITE CONSTRUCTION | | | | | | | | | | | | | | | | | | |
| PERMANENT CONTROL STRUCTURES | | | | | | | | | | | | | | | | | | |
| FINISH GRADING | | | | | | | | | | | | | | | | | | |
| LANDSCAPING/SEED/FINAL STABILIZATION | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

NOTE: PRIOR TO ANY WORK TAKING PLACE

1. A PRE-CONSTRUCTION MEETING SHOULD BE SCHEDULED BETWEEN BERTIN ENGINEERING AND CONSTRUCTION MANAGER. ALL ASPECTS OF EROSION CONTROLS AND CONSTRUCTION OF PROJECT ARE TO BE DISCUSSED 2. WATTLES AND SILTATION FENCE TO BE INSTALLED. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SITE TRACKING PAD) 3. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION.

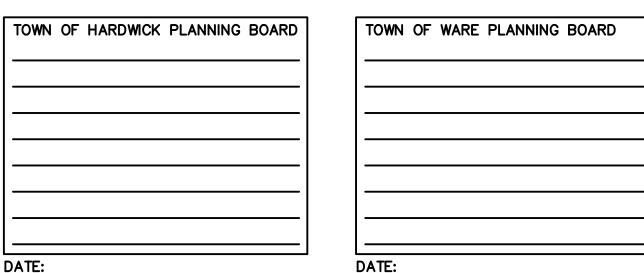
| ACRE, SUMM, in acr | ARY | | |
|--------------------------|-----------|--|--|
| EEDED AREA 8.06 AC± | | | |
| OTAL DISTURBED | 10.69 AC± | | |

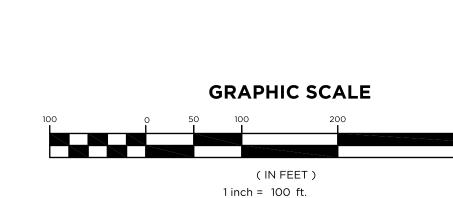
(SA) SOIL MATERIAL STOCKPILE AREA (CD) STONE CHECK DAM (PS) PERMANENT SEEDING/STABILIZATION (TPS) TEMPORARY PARKING AND STORAGE TEMPORARY DIVERSION DITCH (DD) TEMPORARY DIVERSION DIKE (ST) TEMPORARY SEDIMENT TRAP ——(SB)—— TEMPORARY SEDIMENT BASIN - FENCE SILT FENCE ____ SILT FENCE AND STRAW WATTLES _____ STRAW WATTLES ______ DIRECTION OF OVERLAND FLOW W/GRADE TEMPORARY STONE CONSTRUCTION EXIT

INLET PROTECTION

DRAINAGE FLOW DIRECTION

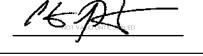
EROSION CONTROL BLANKET





CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER

T LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 60022 NH LIC. NO. 9368 RI LIC. NO. 669



BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

SOIL EROSION & SEDIMENT **CONTROL PLAN**

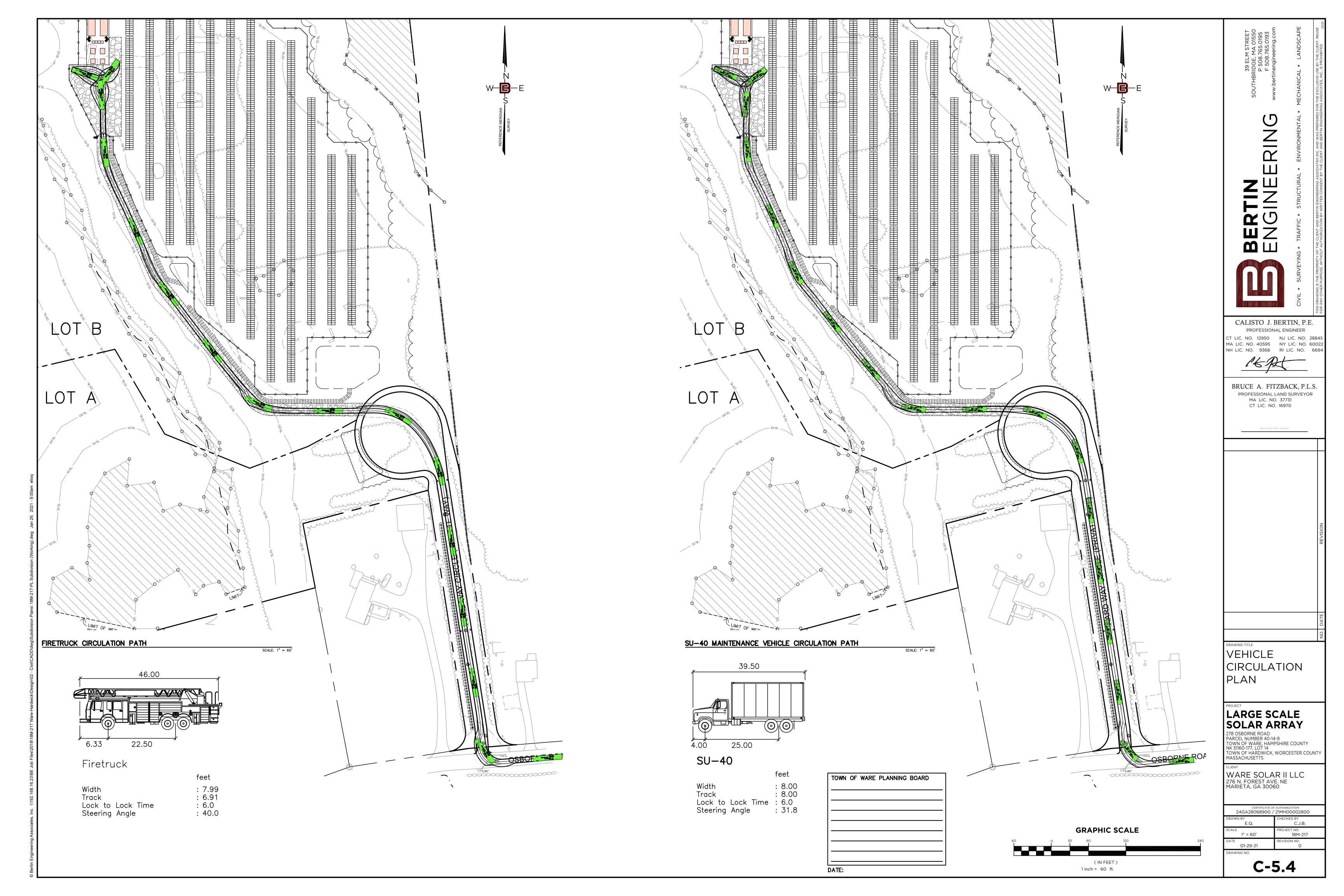
LARGE SCALE **SOLAR ARRAY**

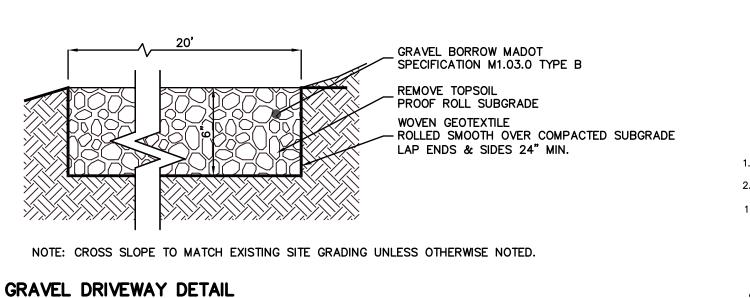
278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

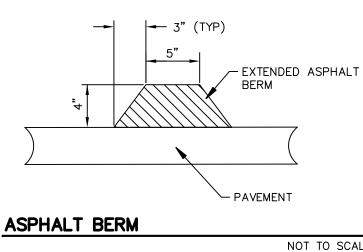
24GA28068900 / 21MH00002800 C.J.B. E.Q. 1" = 100' 18M-217 01-29-21

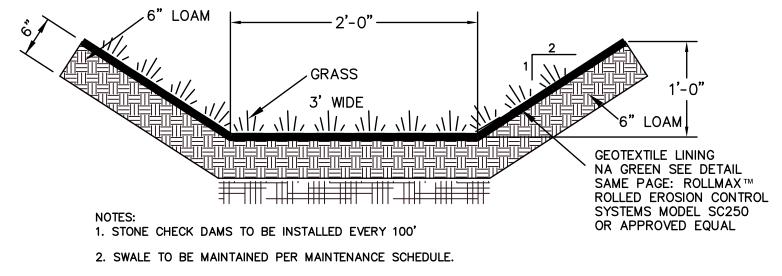
C-5.3

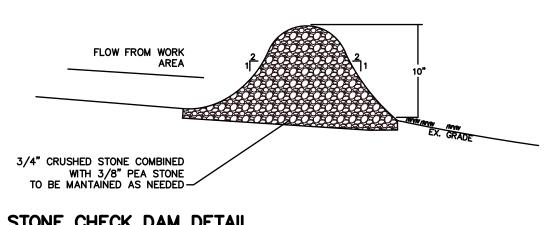




- FINISHED GRADE - MASS DOT APPROVED - STABILIZED ASPHALT M.1.03.0 TYPE B COMPACTED GRAVEL IN 8" AND 4" LIFTS UNDISTURBED EARTH OR COMPACTED SUBGRADE ASPHALT PAVEMENT DETAIL





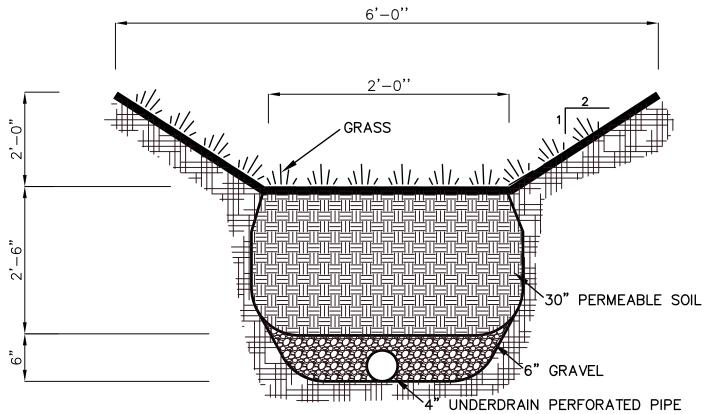


NOT TO SCALE

NOT TO SCALE

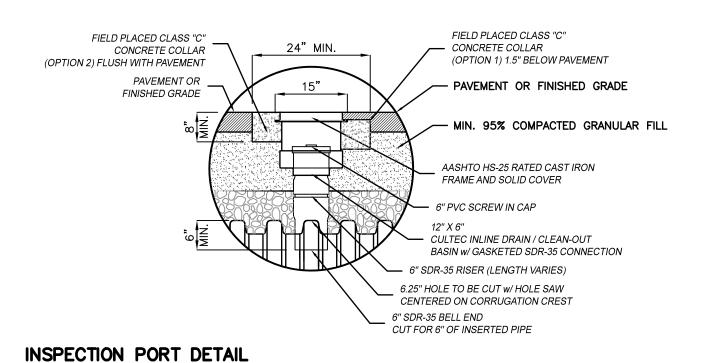
GRASS SWALE

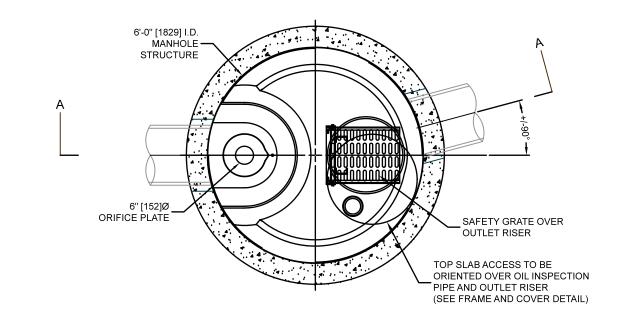
STONE CHECK DAM DETAIL

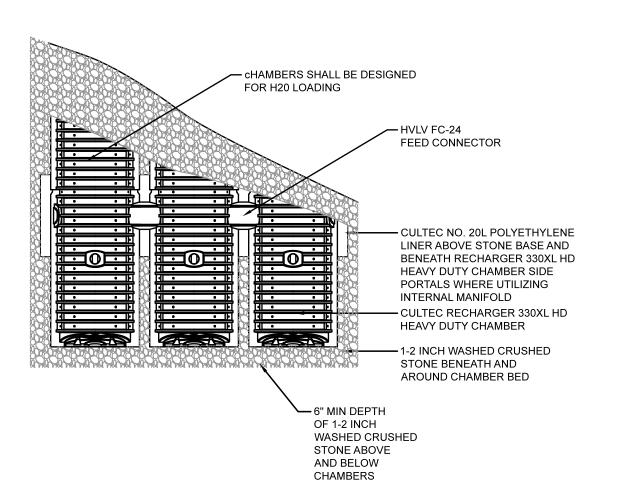


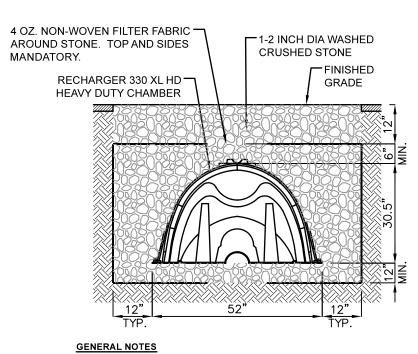
1. STONE CHECK DAMS TO BE INSTALLED EVERY 25'

2. SWALE TO BE MAINTAINED PER MAINTENANCE SCHEDULE. DRY SWALE NOT TO SCALE









GENERAL NOTES
RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. USE RECHARGER 330XL HD HEAVY DUTY FOR TRAFFIC AND/OR H-25 APPLICATIONS.

ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

| WATER QUALITY PEAK FLOW RATE | I LOW KATE (CIS | | 0.196 cfs |
|------------------------------|-----------------|----------|------------------------|
| | E (cfs [L/s]) | [[,9]) | 0.196 cfs 0.534 cfs |
| THE POINT LINED | OF PEAK FLOW | (yrs) | 25 |
| RIM ELEVATION | | | 622.74' |
| PIPE DATA: | INVERT | MATERIAL | DIAMETER |
| INLET PIPE 1 | 618.61' | HDPE | 12" |
| INLET PIPE 2 | | | |
| OUTLET PIPE | 618.53' | HDPE | 12" |
| | | | 12" |

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

NOT TO SCALE

CONTECH

FRAME AND COVER

NÒT TO SCALE

STANDARD STC900 DETAIL

FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. 4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.

ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm]. INSTALLATION NOTES

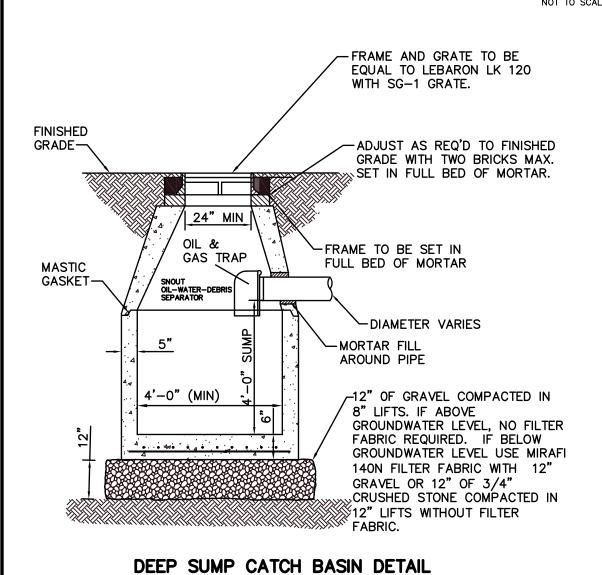
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD. B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE

STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.

CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

| CONTRACTOR TO GROUT TO FINISHED GRADE | |
|--|---|
| GRADE RINGS/RISERS (NOT PROVIDED BY CONTECH) | |
| PERMANENT POOL ELEVATION STORMCEPTOR INSERT INLET PIPE OLIDS STORAGE SUMP | 6" [152]Ø OIL INSPECTION PIPE (TOP 1" [25] MIN. FROM INSIDE OF TOP SLAB) SAFETY GRATE OUTLET PIPE 24" [610]Ø OUTLET RISER (NIM [725] ",9-1) |
| <u> </u> | CONTRACTOR OF THE PROPERTY OF |

CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW



NOT TO SCALE

-FRAME & COVER TO BE EQUAL TO LEBARON LC 237 MANHOLE COVER SIZE AS REQUIRED FOR PIPE SHALL HAVE A DIAMOND PATTERN, INSTALLATION PER MANUFACTURER'S PICKHOLES & THE WORD "DRAIN" RECOMMENDATIONS CAST IN 3" LETTERS -ADJUST AS REQ'D TO FINISHED FINISHED GRADE WITH TWO BRICKS MAX. GRADE-SET IN FULL BED OF MORTAR. /<u>24" MIN</u> FRAME TO BE SET IN FULL BED OF MORTAR MASTIC - PRECAST CONCRETE SECTIONS GASKET-TO CONFORM TO ASTM C-478, CONCRETE OF 400 P.S.I. IN STEEL REBAR PER ASTM REQUIREMENTS (SEE NOTE ABOVE) → MORTAR FILL _DIAMETER AROUND PIPE _12" OF GRAVEL COMPACTED IN 8" LIFTS. IF ABOVE GROUNDWATER LEVEL, NO FILTER FABRIC REQUIRED. IF BELOW GROUNDWATER LEVEL USE MIRAFI 140N FILTER FABRIC WITH 12" GRAVEL OR 12" OF 3/4" CRUSHED STONE COMPACTED IN 12" LIFTS WITHOUT FILTER STANDARD DRAIN MANHOLE DETAIL

INFILTRATION TRENCH CROSS SECTION

CULTEC NO. 20L POLYETHYLENE LINER TO BE PLACED BENEATH -4 OZ. NON-WOVEN FILTER FABRIC HVLV FC-24 FEED CONNECTORS 95% COMPACTED FILL 1-2 INCH DIA AROUND STONE. TOP AND SIDES WHEN UTILIZING INTERNAL MANIFOLD WASHED CRUSHED HVLV FC-24 FEED CONNECTOR RECHARGER 330 XL HD GRADE STONE WHERE SPECIFIED HEAVY DUTY CHAMBER

<u>GENERAL NOTES</u> RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. USE RECHARGER 330XL HD HEAVY DUTY FOR TRAFFIC AND/OR H-25 APPLICATIONS.

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NOT TO SCALE

CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL CROSS SECTION

SITE DETAILS

NOT TO SCALE

Z

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER T LIC. NO. 12950 NJ LIC. NO. 28845

MA LIC. NO. 40595 NY LIC. NO. 6002

NH LIC. NO. 9368 RI LIC. NO. 669

BRUCE A. FITZBACK, P.L.S

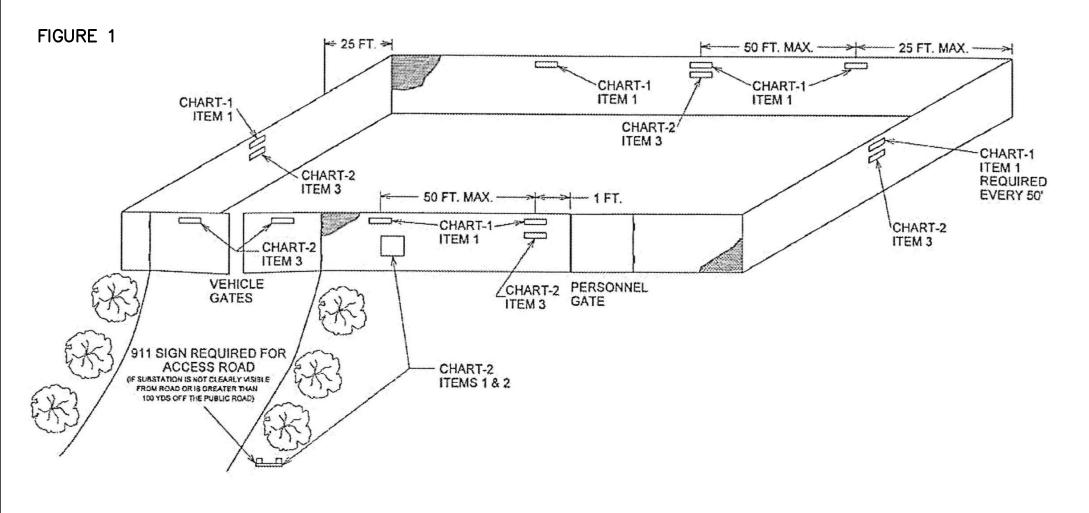
PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

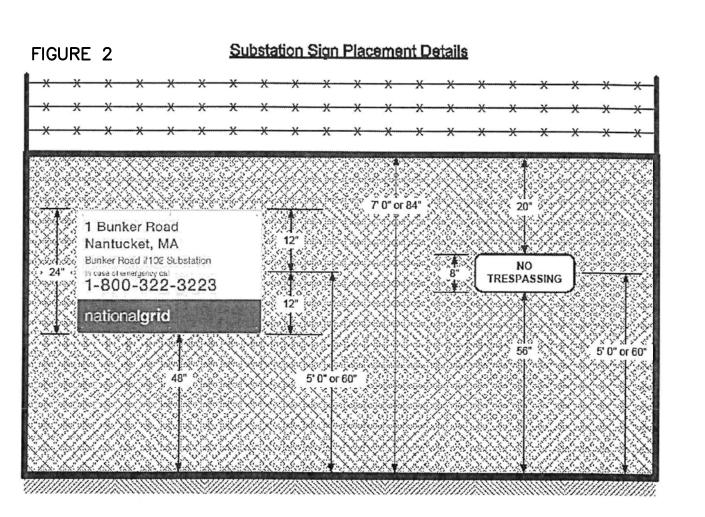
LARGE SCALE **SOLAR ARRAY**

278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HÁRDWICK, WORCESTER COUNTY MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

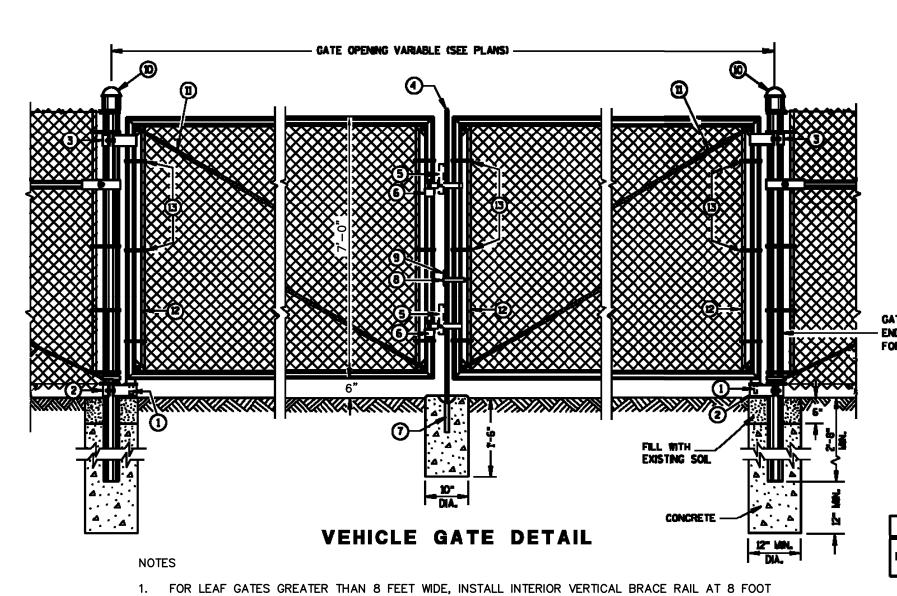
24GA28068900 / 21MH00002800 C.J.B. J.A.S. AS SHOWN 18M-217 07-31-20





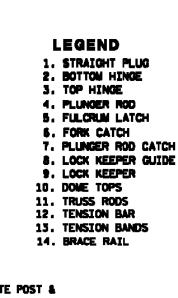
- 1. SIGN CHAIN-LINK FENCES USING "DANGER" SIGN (CHART-1 ITEM 1).
- 2. SIGN CHAIN-LINK FENCES USING "NO TRESPASSING" SIGN (CHART-2 ITEM 3).
- 3. SIGN 4"x4" POSTS AT ACCESS ROAD AND CHAIN-LINK FENCES USING STATION "911" SIGN (CHART-2 ITEM 1 & 2).
- 4. ALL SIGNS SHALL BE MOUNTED AS CLOSE TO A HEIGHT OF 60" (1525mm) ABOVE GRADE TO THE CENTERLINE OF THE SIGN AS POSSIBLE. ATTACH SIGNS AS LEVEL AS POSSIBLE.
- 5. SIGN ALL GATES AT A HEIGHT OF 60" (1525mm) ABOVE GRADE TO THE CENTERLINE OF SIGN WITH SIGN AT GATE CENTER.
- 6. FENCE SIDES THAT CONTAIN NO GATES SHOULD HAVE SYMMETRICAL SIGN PLACEMENT AS MUCH AS IS POSSIBLE.
- 7. MAXIMUM DISTANCE BETWEEN SIGNS ALONG FENCE PERIMETER NOT TO EXCEED 50 FEET.
- 8. REFER TO FIGURE 1 AND 2 FOR PLACEMENT DETAIL.
- 9. SIGN UNHINGED SIDE OF SINGLE GATES AT A HEIGHT OF 60" (1525mm) ABOVE GRADE TO CENTERLINE OF SIGN ONE FOOT FROM GATE POST.
- 10. ALL FIGURES AND NOTES TAKEN FROM "NATIONALGRID" ENGINEERING DOCUMENT #ST.03.06.001, PG 14 OF 22, VERSION 1.0 DATED 3-9-09.

SIGN PLACEMENT ON PERIMETER GATES & FENCES



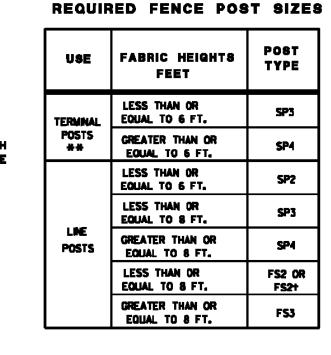
2. FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

3. MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE



BRACE RAIL TYPES

TYPE



| ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING) | | | | | |
|---|--------------------|-------------------|------------------|--|--|
| POST TYPE | LENGTH (L) INCH | WIDTH (W) INCH | WEIGHT LB8/FT | | |
| FS1 | 1.625 | 1.25 | 1.35 | | |
| FS2† | 1.875 | 1.625 | 1.850 | | |
| FS2 | 1.875 | 1.625 | 2.400 | | |
| FS3 | 2.250 | 1.700 | 2.780 | | |

REQUIRED POST

WEIGHT

LB8/FT

2.270

2.720

5.800

9.120

18.990

28.580

| _ | | | | | |
|-------|-------|---------------------------------|--------------|--|--|
| | USE | LEAF WIDTHS FEET | POST TYPE | | |
| GATES | | LESS THAN OR EQUAL TO 6 FT. | SP4 | | |
| | GATES | LESS THAN OR EQUAL TO 13 FT. | SP5 | | |
| | | LESS THAN OR EQUAL TO 18 FT. | SP6 | | |
| J | | LESS THAN OR | SP7 | | |

SIZE FOR GATES

CHAIN LINK FENCE GATE DETAIL

WIDTH OR 2 INCHES.

1. ALL TIES, HOG RINGS AND CLIPS SHALL BE GALVANIZED.

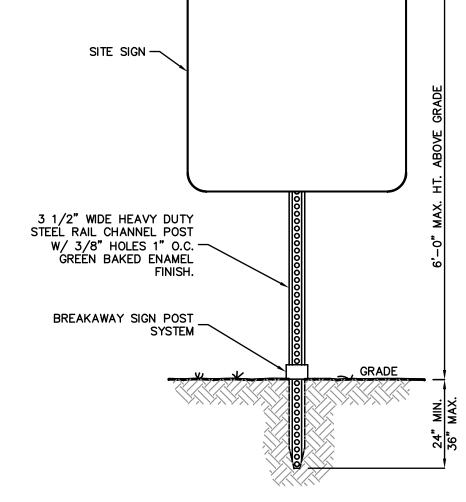
2. FABRIC SHALL BE GALVANIZED WIRE, ALL PIPE TO CONFORM TO CURRENT ASTM DESIGNATION F 1083, SCHEDULE 40, PLAIN END.

10'-0" NOMINAL POST SPACING (TYP.)

TERMINAL AND/OR CORNER

POST FOOTINGS

- 3. BRACE RAIL AND ROD AT CORNER AND END SECTION ONLY. 4. ALL REFERENCES TO PIPE DIAMETER ARE ASTM NOMINAL SIZE.



SITE SIGN INSTALLATION DETAIL

WOVEN WIRE FABRIC

FABRIC TIE © 9 GAUGE 10" APART (MAX.)

BOTTOM TENSION WIRE

(0.1675"ø MIN.)

- CLASS D CONC.

10"ø

- PLUG END OF PIPE

- PITCH TO DRAIN

LINE POST CAP

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

T LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 6002 NH LIC. NO. 9368 RI LIC. NO. 669

BRUCE A. FITZBACK, P.L.S PROFESSIONAL LAND SURVEYOR MA LIC. NO. 37731 CT LIC. NO. 16970

2" MESH: 9 GAUGE GALVANIZED 2 3/8"ø (MIN.) GALVANIZED HOG RING FASTENERS 12" APART (MAX.) 11 GAUGE

SITE DETAILS

278 OSBORNE ROAD PARCEL NUMBER 40-14-9 TOWN OF WARE, HAMPSHIRE COUNTY NK 51160-177, LOT 14 TOWN OF HARDWICK, WORCESTER COUNTY

WARE SOLAR II LLC

24GA28068900 / 21MH00002800 C.J.B. J.A.S. AS SHOWN 18M-217 07-31-20

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROUND STEEL FENCE POST

(1.8 OZ./SQ. FT. COATING)

THICKNESS

INCH

0.140

0.145

0.154

0.203

0.226

0.280

0.322

DIMENSION

INCH

2.375

2.875

4.000

6.625

8.625

POST TYPE

SP3

SP5

SP6

SP7

NOT TO SCALE

EQUAL TO 23 FT.

CHAIN LINK FENCE DETAIL

NOTE: THERE SHALL BE A 6" GAP BETWEEN THE GROUND

AND THE BOTTOM OF THE

FENCE (TYP)

SOLAR FACILITY

SOLAR FACILITY OWNER

ADDRESS

CONTACT PHONE #

DEVELOPER ADDRESS CONTACT PHONE #

ADDRESS

CONTACT PHONE #

24 HOUR EMERGENCY

CONTACT PHONE NUMBER

911

DO NOT ENTER

106A ALUMINUM SIGN

BRACE RAIL 1-1/4"ø PIPE -

END POST CAP -

FENCE POST

FABRIC TIES @ 9 GAUGE WIRE

1" x 1/8" BRACE AND STRETCHER BAR BANDS WITH 5/16" CARRIAGE

BOLTS WITH ELASTIC STOP NUTS

TERMINAL OR CORNER POSTS: |

1/4" x 3/4" STRETCHER BAR -

BRACE BAND FOR TENSION WIRE

2 7/8"ø (MIN.) GALVANIZED —

STRETCHER BAR BANDS | 10" APART (MIN.)

12" APART (MAX.)

SITE SIGN DETAIL

VINYL CONTACT LETTERING

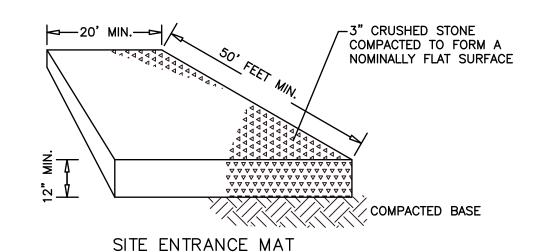
5. WITH THE APPROVAL OF THE ENGINEER, IN SOFT MARSHY GROUND, POSTS MAY BE DRIVEN, THE CONCRETE FOOTING DELETED AND APPROVED DRIVE ANCHORS USED.

NOT TO SCALE

LARGE SCALE **SOLAR ARRAY**

MASSACHUSETTS

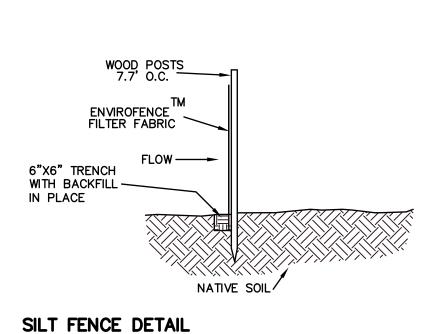
276 N. FOREST AVE. NE MARIETA, GA 30060



THE TOWN ROAD WILL BE SWEPT DAILY
WHEN HAULING IS IN PROGRESS.
CRUSHED STONE SHALL BE REPLACED WHEN
DEPOSITED SOILS ACCUMULATE TO THE EXTENT
THAT THEY LESSEN THE EFFECTIVENESS OF THE MAT

TRACKING PAD DETAIL

NOT TO SCALE



NOT TO SCALE

TOP SOIL & SEED DETAIL

WOOD POSTS
7.7' O.C.

FILTER FABRIC

2"X2"X3' STAKE
STAKE WATTLE
O.C.

12"Ø STRAW WATTLE
FILTER FABRIC

STAKE

WITHIN 24" OF

WOOD POST

NATIVE SOIL

PLAN VIEW

CROSS SECTION

SILT FENCE AND STRAW WATTLE DETAIL

2"X2"X3" STAKES
STAKE WATTLE © 4'
O.C.

12" Ø STRAW WATTLES SET
IN A 2" TRENCH 24"
OVERLAP AT SEAMS STAKE
WITHIN 24" OF EACH END

16-18" #3 or #4 Rebar or
16-18" 1x1 or 1x2 Wood Stakes

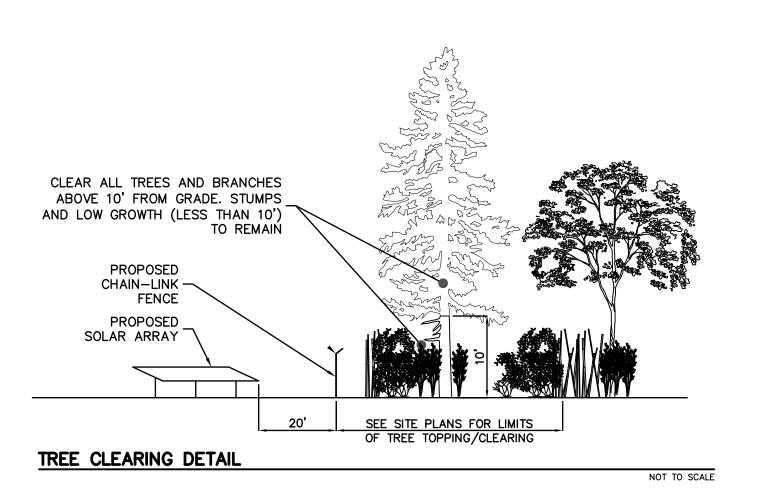
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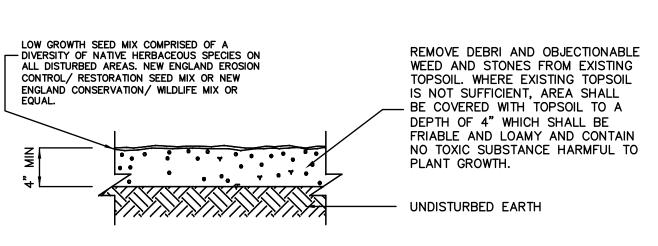
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WATTLE INSTALLATION DETAIL

STRAW WATTLE INSTALLATION - PLAN VIEW

NOT TO SCALE





BRI AND OBJECTIONABLE
STONES FROM EXISTING
HERE EXISTING TOPSOIL
FICIENT, AREA SHALL
D WITH TOPSOIL TO A

4" WHICH SHALL BE
ID LOAMY AND CONTAIN
SUBSTANCE HARMFUL TO
WTH.

CUT AND REMOVE BINDING AND BURLAP FROM TRUE
AND UPPER 1/3 OF TREE ROOTBALL.
PREPARED TOPSOIL (3:1 RATIO
TOPSOIL TO PEAT MOSS).
PREPARED TOPSOIL CUSHION

NOTE: WIRE BASKETS ARE TO BE REMOVED PRIOR
TO BACKFILLING THE PLANTING PIT

TO BACKFILLING THE EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

LEADER INTACT, DO NOT PRUNE

PRUNE ALL BROKEN AND DEAD BRANCHES

ATTACH #10 GAUGE GALV. ANNEALED WIRE
GUYS TO TRUNK, USE REINFORCED 3/4" BLACK
RUBBER HOSE COVER WHERE WIRES ARE IN
CONTACT WITH BRANCHES. WIRE SHOULD BE IN
CONTACT At 45' ANGLE TO THE TREE.

PROVIDE 4" OF MULCH AS SPECIFIED TO COVER
WATERING SAUCER OF TREE PIT

FORM 4" HIGH TOPSOIL SAUCER AT EDGE OF
TREE PIT FOR WATERING.

3 - 2"x2"x36"(MIN.) WOOD STAKES (SPACED 120' APART)

(SET STAKES FLUSH TO AVOID TRIPPING HAZARD)

FINISHED GRADE

CUT AND REMOVE BINDING AND BURLAP FROM TRUNK
AND UPPER 1/3 OF TREE ROOTBALL.

PREPARED TOPSOIL (3:1 RATIO

SURVEYING • TRAFFIC • STRUCTURAL • ENVIRONMENTAL • MECHAI

BRUCE A. FITZBACK, P.L.S.

PROFESSIONAL LAND SURVEYOR

MA LIC. NO. 37731

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

CT LIC. NO. 12950 NJ LIC. NO. 28845 MA LIC. NO. 40595 NY LIC. NO. 60022

CT LIC. NO. 16970

NOT VALID UNTIL SEALED

NO. DATE

SOIL EROSION &
SEDIMENT CONTROL
AND LANDSCAPE
DETAILS

LARGE SCALE SOLAR ARRAY

278 OSBORNE ROAD
PARCEL NUMBER 40-14-9
TOWN OF WARE, HAMPSHIRE COUNTY
NK 51160-177, LOT 14
TOWN OF HARDWICK, WORCESTER COUNTY
MASSACHUSETTS

WARE SOLAR II LLC 276 N. FOREST AVE. NE MARIETA, GA 30060

24GA28068900 / 21MH00002800

DRAWN BY
J.A.S.

SCALE
AS SHOWN
DATE
01-29-21

CHECKED BY
C.J.B.

PROJECT NO.
18M-217

REVISION NO.
0