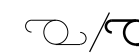

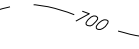



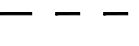
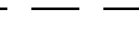









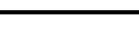






**LEGEND:**

-  EXISTING/ PROPOSED POWER POLE
-  EXISTING OVERHEAD POWER LINES
-  EXISTING GRADE CONTOUR LINES (5 FOOT INTERVALS)
-  EXISTING GRADE CONTOUR LINES (1 FOOT INTERVALS)
-  APPROXIMATE PROPERTY LINES
-  APPROXIMATE PROJECT PROPERTY LINES
-  SETBACKS TO SOLAR PANEL RACKING
-  MAPPED SOIL BOUNDARY (VCGI)
-  STREAM (VCGI)
-  STREAM TOP BANK (LOCATED BY AE)
-  RIPARIAN BUFFER
-  RTE PLANTS (LOCATED BY AE)
-  RTE PLANTS (LOCATED BY AE)
-  PROPOSED UPGRADED OVERHEAD POWER
-  PROPOSED OVERHEAD POWER
-  PROPOSED UNDERGROUND POWER
-  PROPOSED FIXED SOLAR PANEL RACKING
-  PROPOSED STAGING AREA
-  PROPOSED LIMIT OF DISTURBANCE (LOD) AND CLEARING
-  500 YEAR FLOODPLAIN
-  100 YEAR FLOODPLAIN
-  REGULATORY FLOODWAY

**IMPACT AREA CALCULATIONS**

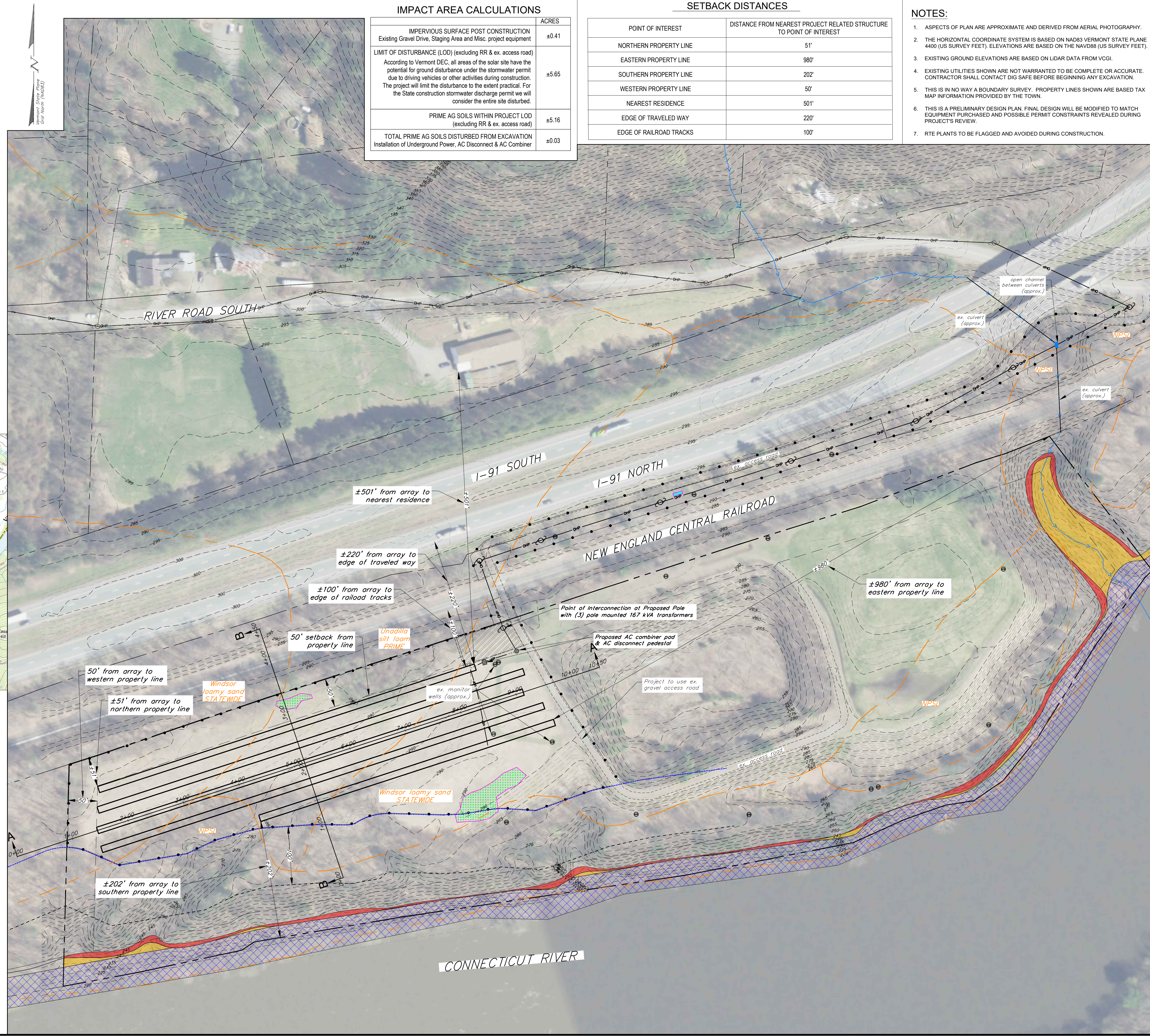
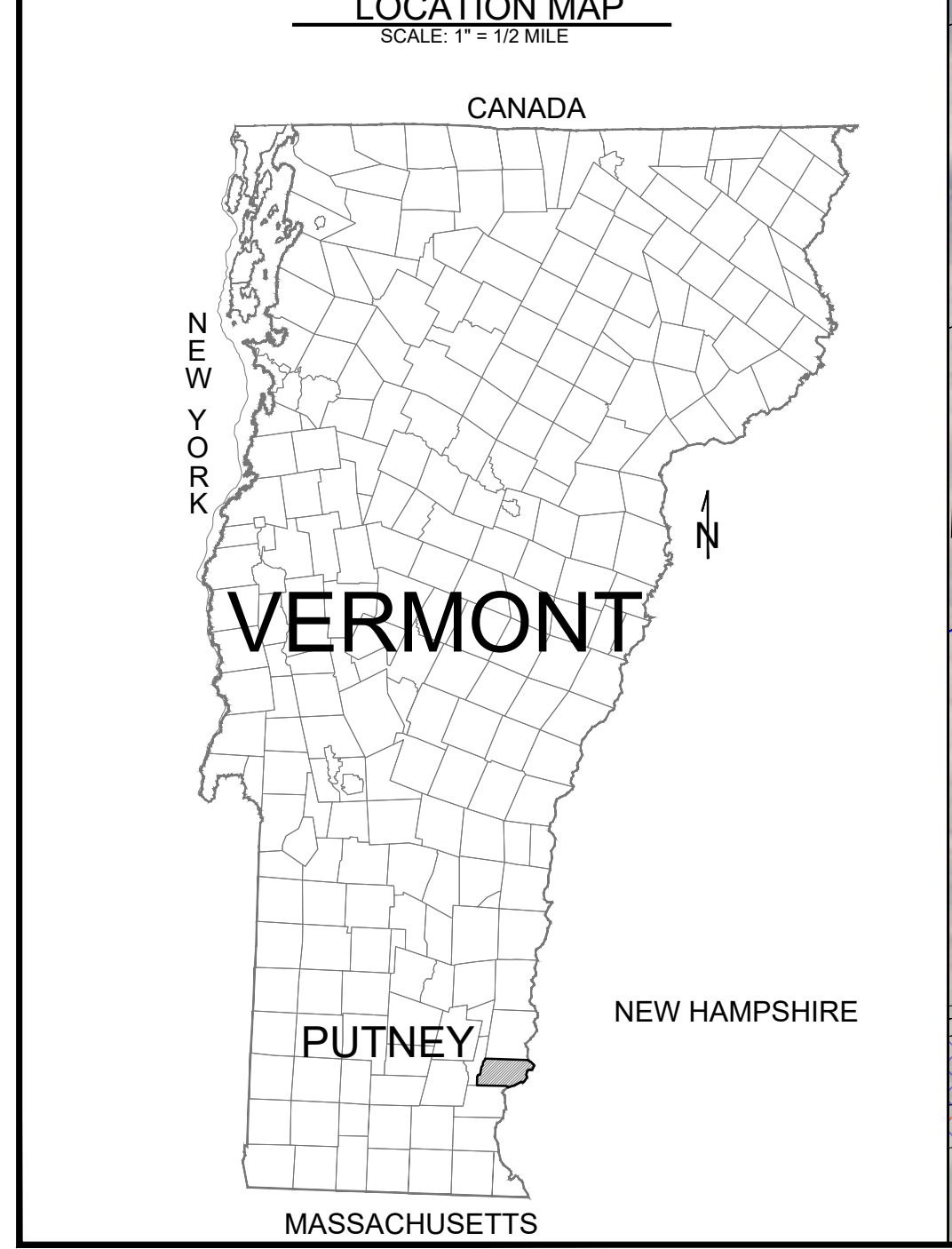
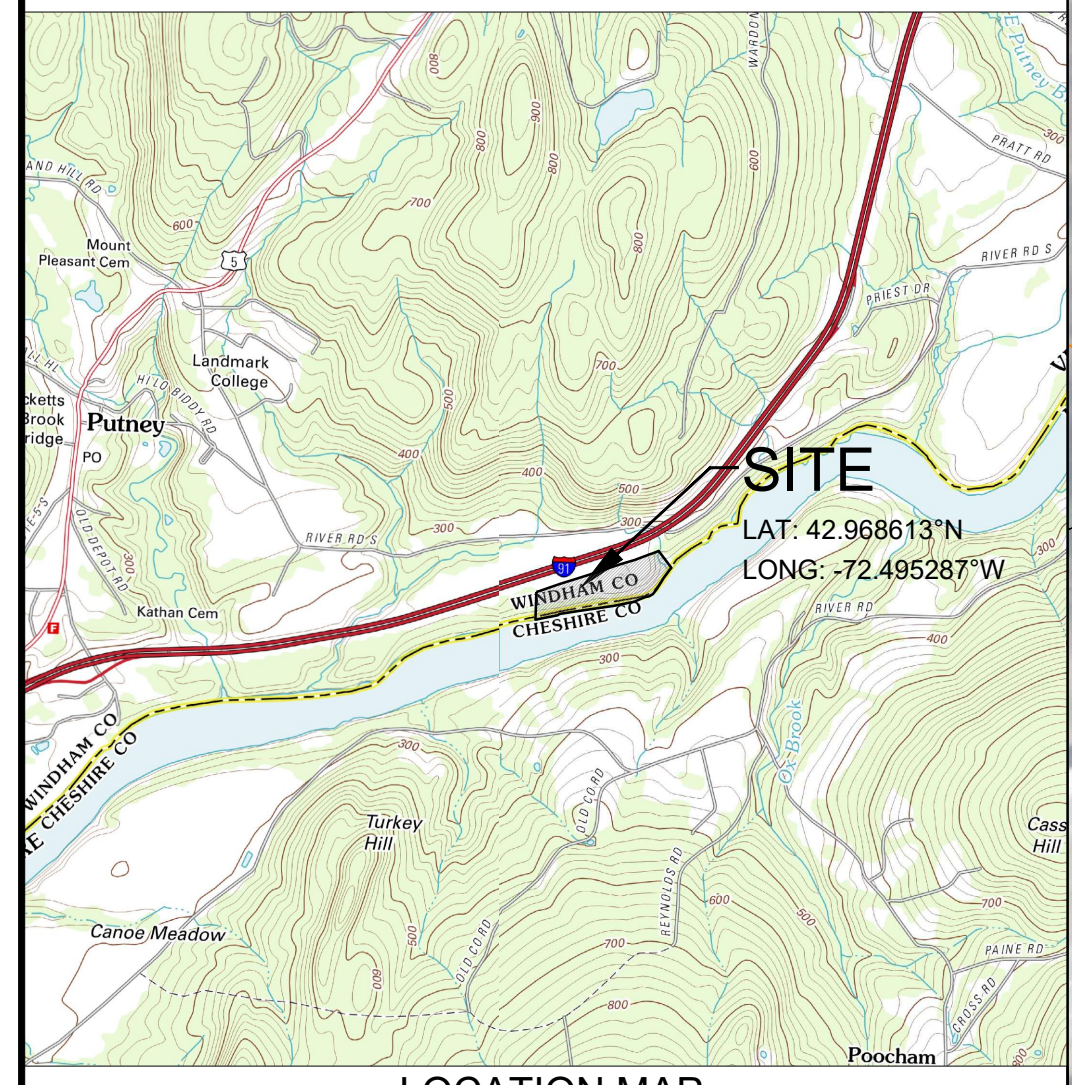
	ACRES
IMPERVIOUS SURFACE POST CONSTRUCTION Existing Gravel Drive, Staging Area and Misc. project equipment	±0.41
LIMIT OF DISTURBANCE (LOD) (excluding RR & ex. access road) According to Vermont DEC, all areas of the solar site have the potential for ground disturbance under the stormwater permit due to driving vehicles or other activities during construction. The project will limit the disturbance to the extent practical. For the State construction stormwater discharge permit we will consider the entire site disturbed.	±5.65
PRIME AG SOILS WITHIN PROJECT LOD (excluding RR & ex. access road)	±5.16
TOTAL PRIME AG SOILS DISTURBED FROM EXCAVATION Installation of Underground Power, AC Disconnect & AC Combiner	±0.03

**SETBACK DISTANCES**

POINT OF INTEREST	DISTANCE FROM NEAREST PROJECT RELATED STRUCTURE TO POINT OF INTEREST
NORTHERN PROPERTY LINE	51'
EASTERN PROPERTY LINE	980'
SOUTHERN PROPERTY LINE	202'
WESTERN PROPERTY LINE	50'
NEAREST RESIDENCE	501'
EDGE OF TRAVELED WAY	220'
EDGE OF RAILROAD TRACKS	100'

**NOTES:**

1. ASPECTS OF PLAN ARE APPROXIMATE AND DERIVED FROM AERIAL PHOTOGRAPHY.
2. THE HORIZONTAL COORDINATE SYSTEM IS BASED ON NAD83 VERMONT STATE PLANE 4400 (US SURVEY FEET). ELEVATIONS ARE BASED ON THE NAVD83 (US SURVEY FEET).
3. EXISTING GROUND ELEVATIONS ARE BASED ON LIDAR DATA FROM VCGI.
4. EXISTING UTILITIES SHOWN ARE NOT WARRANTED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATION.
5. THIS IS IN NO WAY A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE BASED TAX MAP INFORMATION PROVIDED BY THE TOWN.
6. THIS IS A PRELIMINARY DESIGN PLAN. FINAL DESIGN WILL BE MODIFIED TO MATCH EQUIPMENT PURCHASED AND POSSIBLE PERMIT CONSTRAINTS REVEALED DURING PROJECT'S REVIEW.
7. RTE PLANTS TO BE FLAGGED AND AVOIDED DURING CONSTRUCTION.



# Putney Green Acres Solar, LLC

River Road South  
Putney, Vermont

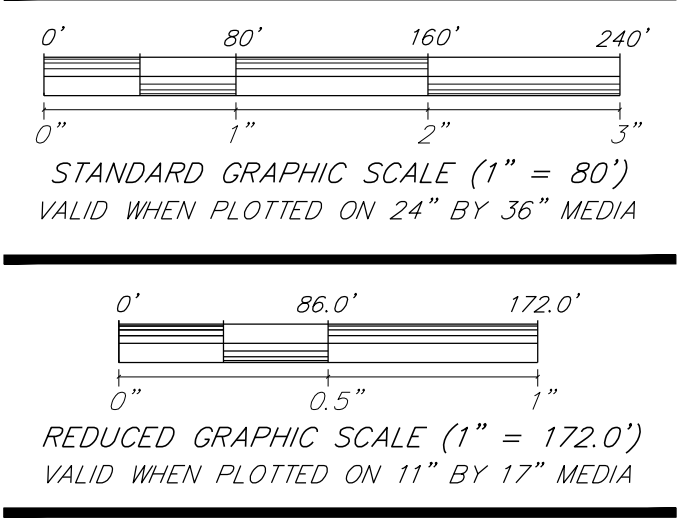
15 RAILROAD ROW  
WHITE RIVER JUNCTION, VERMONT 05001  
802.281.3213  
SALES@NORWICHTECH.COM  
WWW.NORWICHTECH.COM

164 Main Street, Suite 201  
Colchester, Vermont 05446  
P: (802) 878-0375  
www.krebsandlansing.com

**ISSUED FOR PERMIT REVIEW  
NOT FOR CONSTRUCTION**

**SOURCE DATA LEGEND**

- MAPPING SOURCE DATA USED FOR PLAN COMPILATION
- Electrical Design:  
Norwich Solar Technologies  
15 Railroad Row  
White River Junction, Vermont 05001
- Civil Engineering:  
Krebs and Lansing Consulting Engineers, Inc.  
164 Main Street, Suite 201  
Colchester, Vermont 05446
- Environmental:  
Arrowood Environmental  
950 Bert White Rd.  
Huntington, Vermont 05462

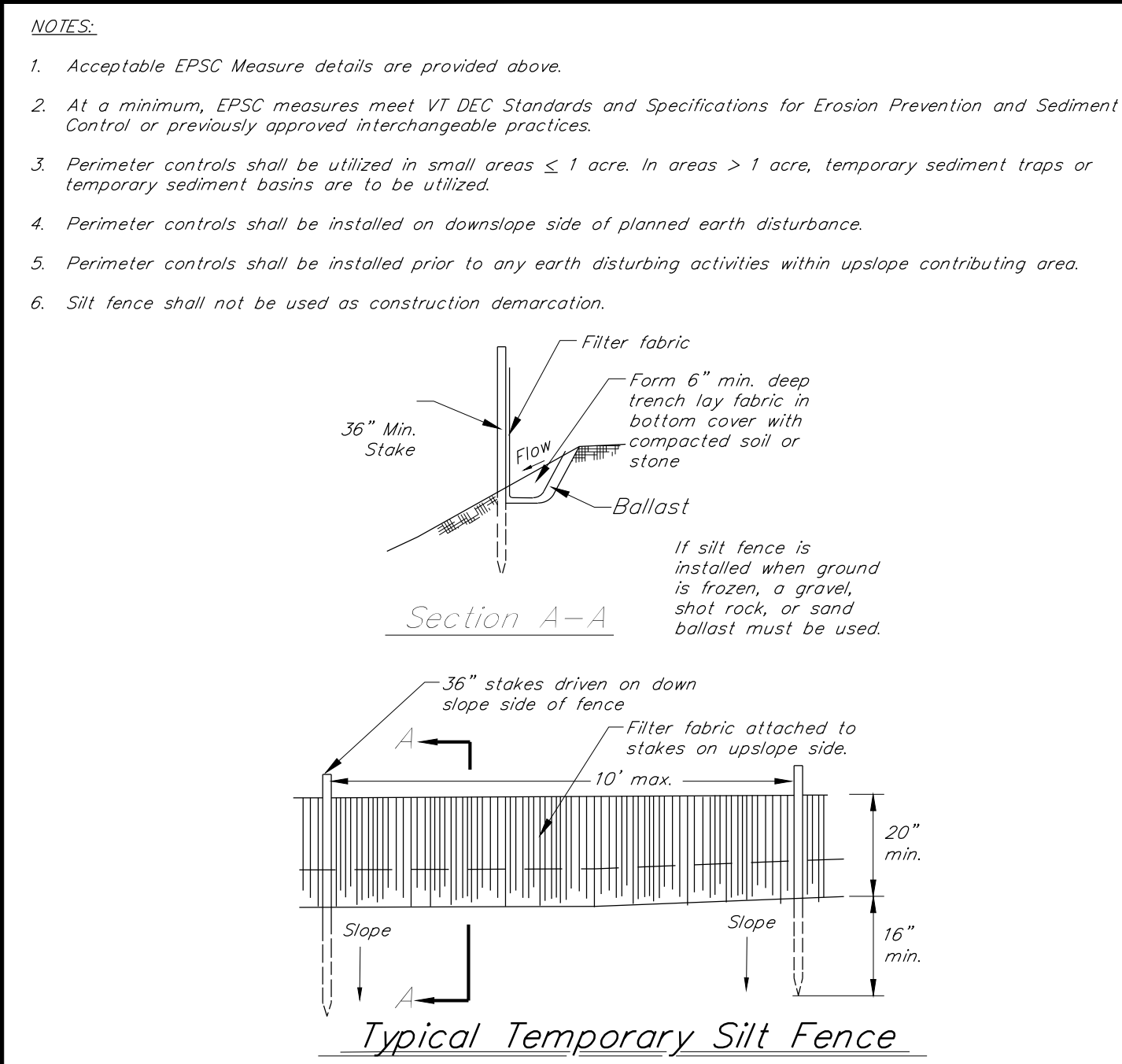


## Proposed Solar Array

SET REV.	REVISIONS/COMMENTS	DATE

Drawing Title:  
**PRELIMINARY SITE PLAN**

DATE of Issue: 1/18/2021  
Drawn by: JBC Checked by: JBC  
Project No.: 21102 Scale: 1" = 80'  
Drawing No.: C-100 Rev No.:

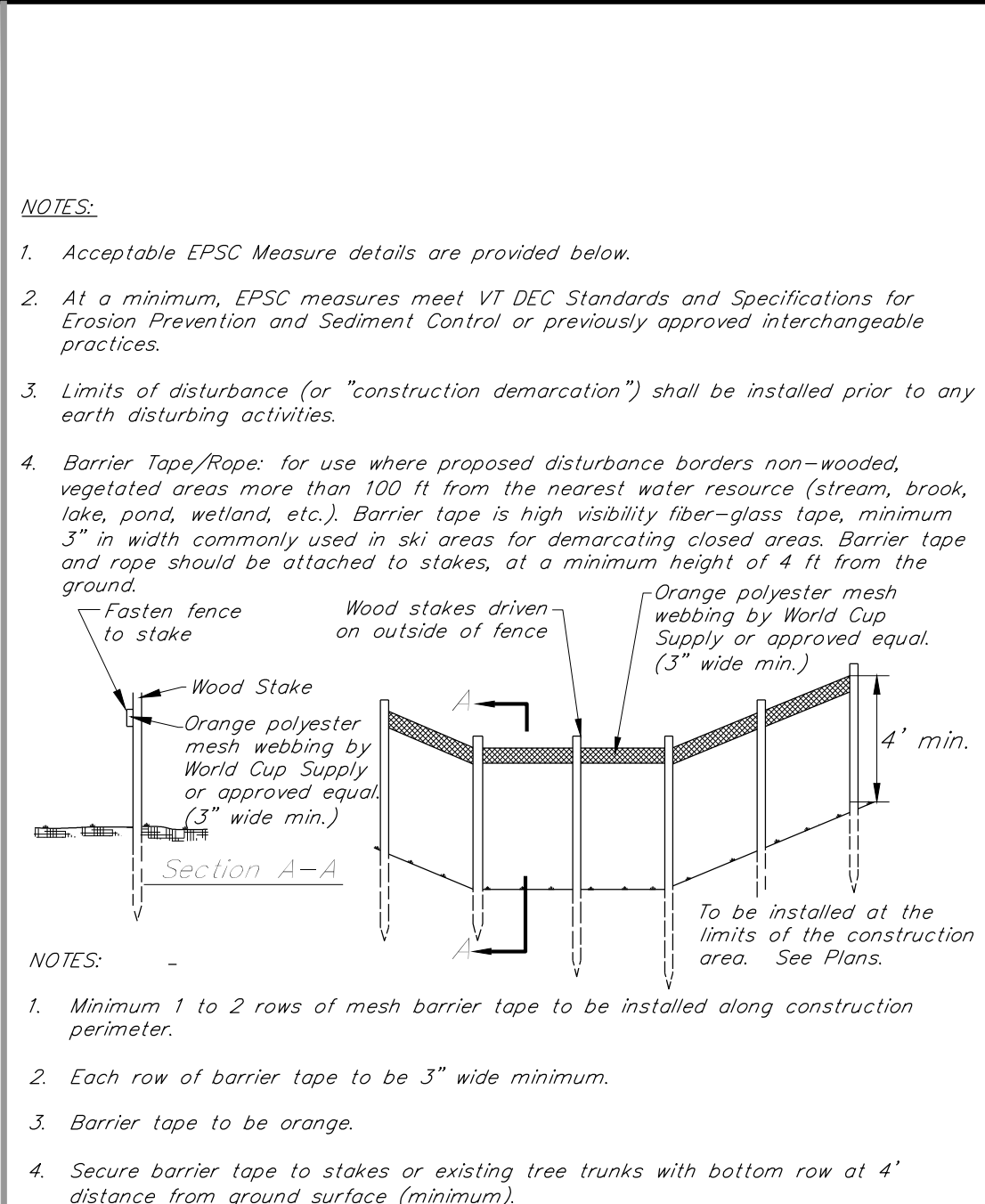


**CONSTRUCTION STORMWATER DISCHARGE PERMIT INFORMATION**

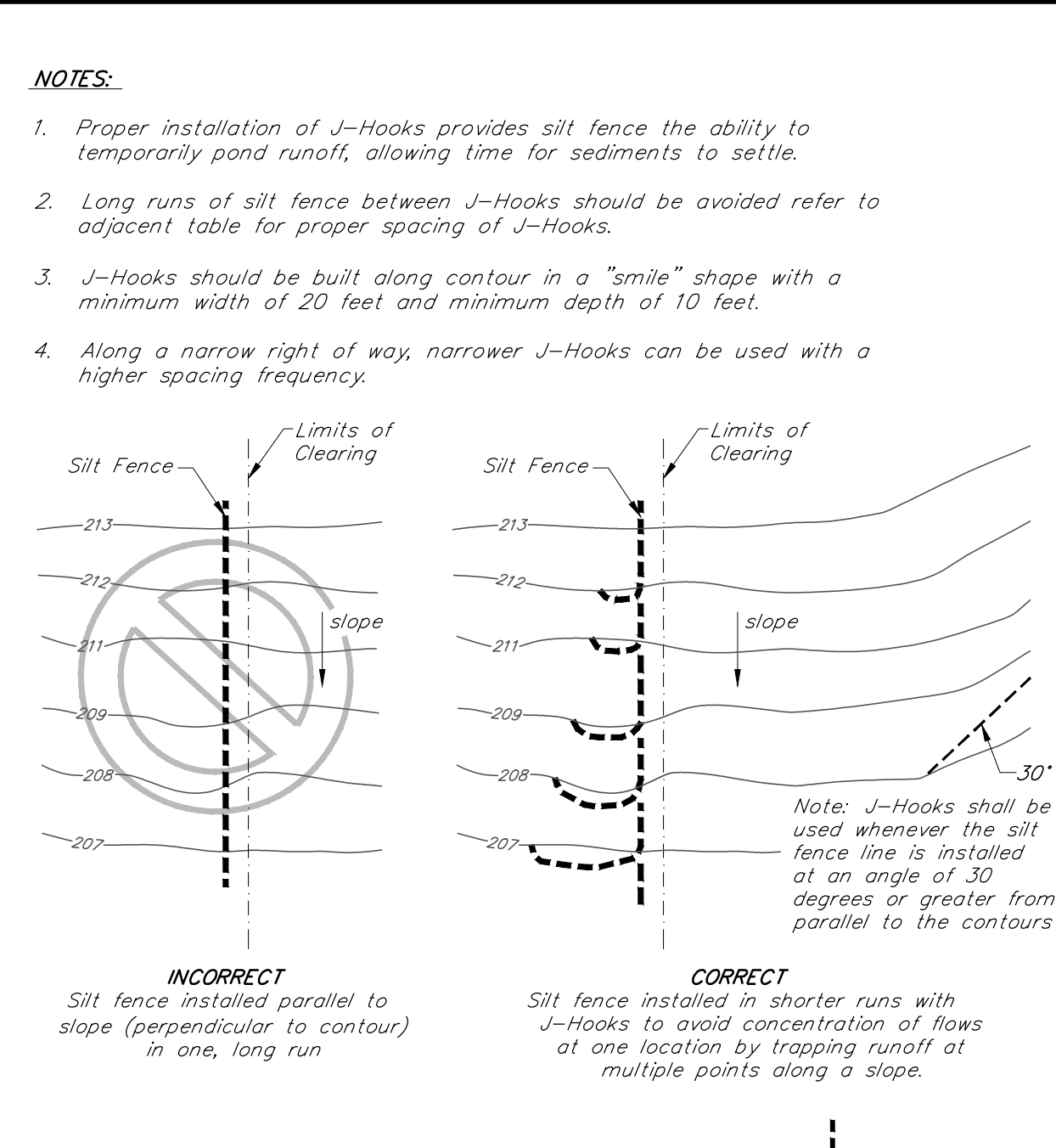
- This Project proposes greater than 1 acre of soil disturbance on site. The Project will apply for a Construction General Permit 3-9020.
- The proposed Project has been scored using the State of Vermont Appendix-A Risk Evaluation. The Project is scored "Low Risk" based on the evaluations criteria.
- The maximum area of earth disturbance at any one time shall not exceed 5 acres.
- All areas of earth disturbance associated with this project must be stabilized within 14-days of initial disturbance. After this initial 14-day period, all earth disturbance areas associated must be stabilized on a daily basis, with the following exceptions:  
i. Stabilization is not required if work is to continue within the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.  
ii. Stabilization is not required if the work is occurring in a self-contained excavation (i.e., no outlet for stormwater) with a depth of 2 feet or greater (e.g., underground line installation).
- Project does not propose winter construction.
- All temporary EPSC measures shall be removed within 30 days after final site stabilization or after the temporary EPSC measures are no longer needed, unless otherwise authorized and approved in writing by the Owner.
- Soil stabilization shall be achieved by seed and mulch, hydroseeding, with mulch tackifier, soil, stone, and/or rolled erosion control products (e.g., erosion control blanket). Mulch shall be comprised of straw, hay, compost, woodchips, wood stump grindings, and/or erosion control mix.
- Appropriate seed mix shall be applied to designated areas per this EPSC Plan and seed specifications.

**Silt fence spacing chart**

Slope	silt fence spacing
5% to 10%	50 ft. or less
10% to 20%	25 ft. or less
> 20%	15 ft. or less

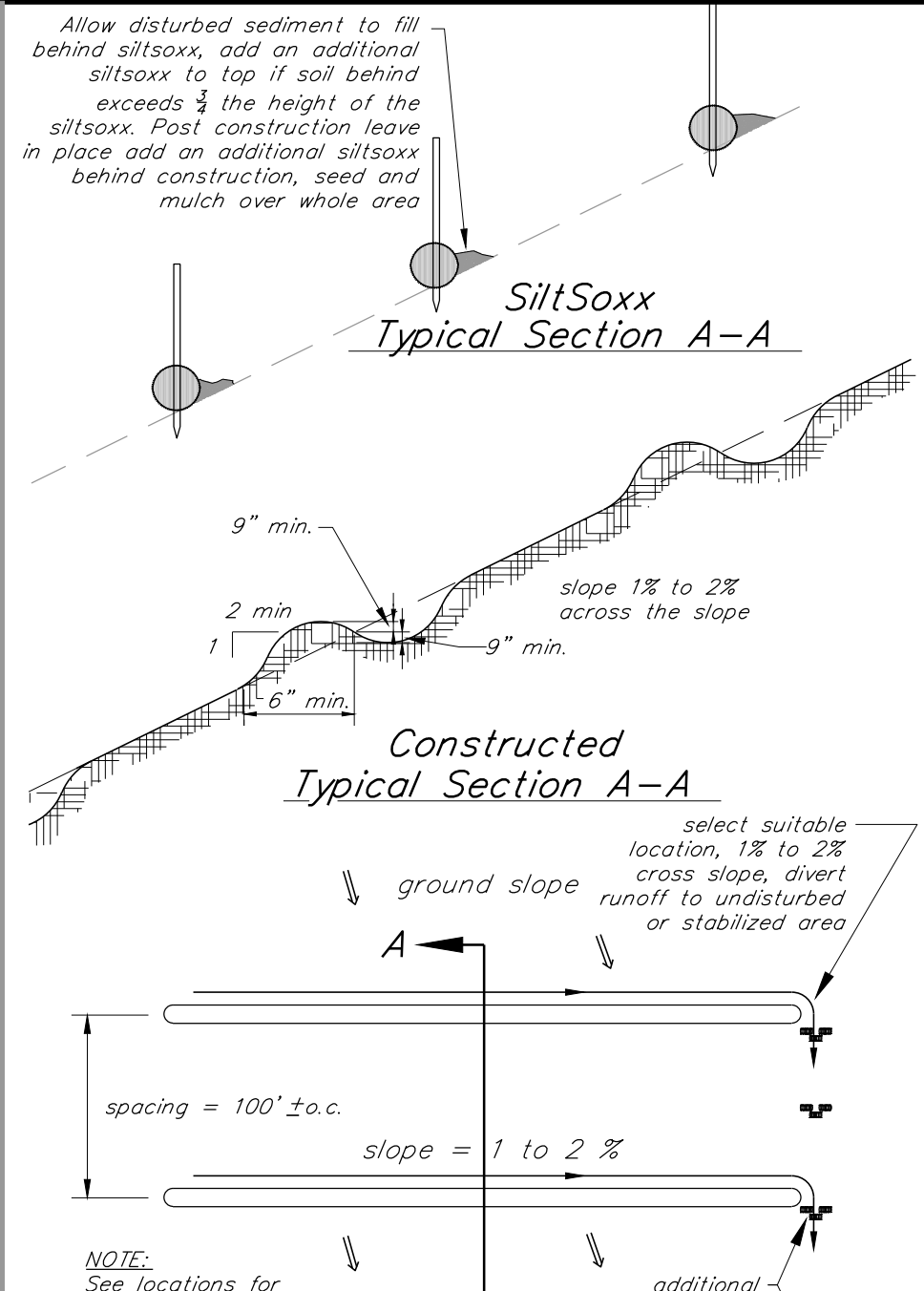
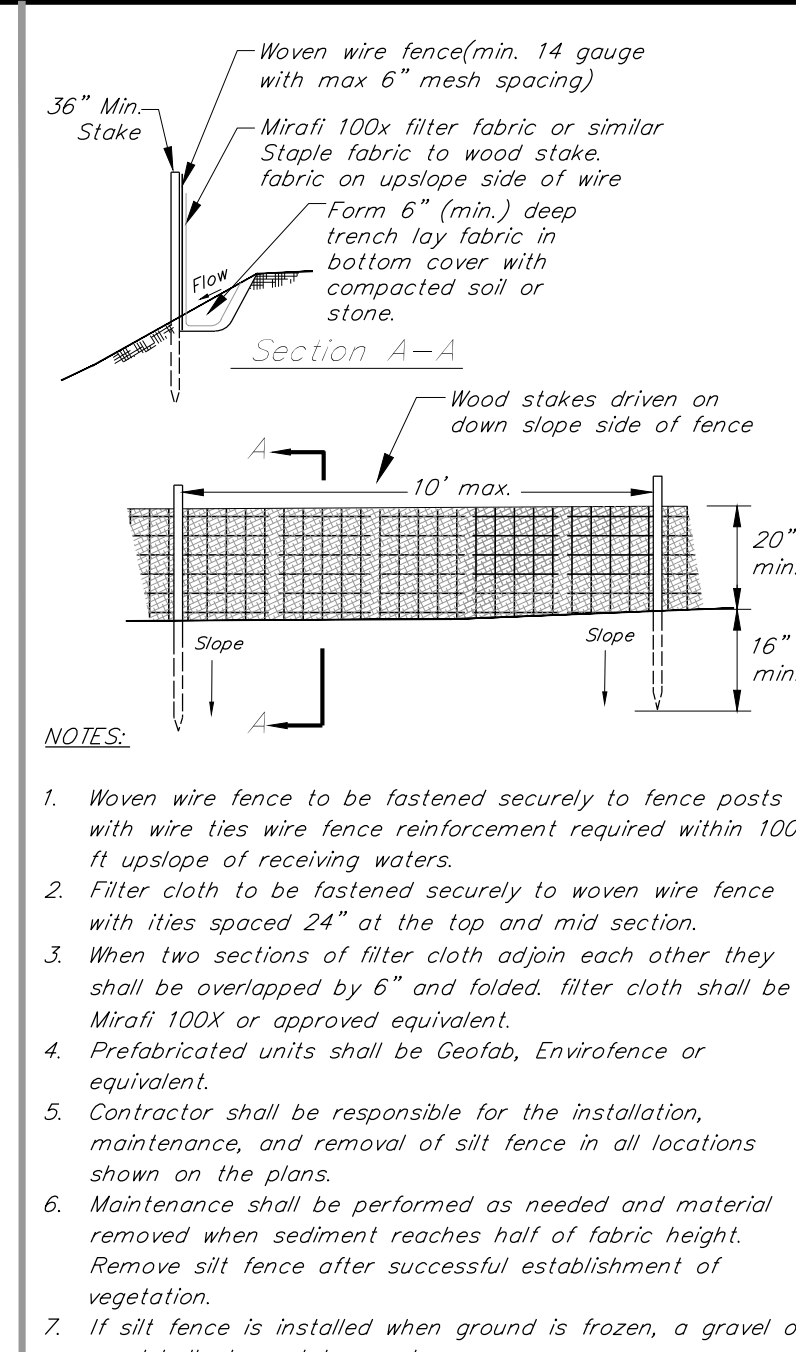


- NOTES:**
- Minimum 1 to 2 rows of mesh barrier tape to be installed along construction perimeter.
  - Each row of barrier tape to be 3" wide minimum.
  - Barrier tape to be orange.
  - Secure barrier tape to stakes or existing tree trunks with bottom row at 4' distance from ground surface (minimum).
  - Maintain and replace as needed. Remove at completion of project per OSPC.
  - In event the OSPC determines barrier tape is not sufficient, replace with orange construction fence or snow fence.



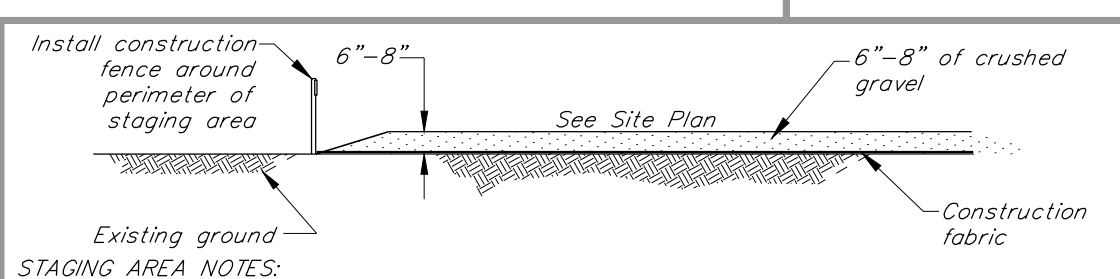
Slope Steepness	Maximum spacing between silt fence J-Hooks (ft.)
2:1 Slope (50%)	25
3:1 Slope (33%)	50
4:1 Slope (25%)	75
5:1 Slope or Flatter (50%)	100

**Typical Temporary Reinforced Silt Fence**  
N.T.S.



**EPSC CONSTRUCTION NOTES**

- Existing vegetation shall be protected and maintained to the extent practicable.
- A vegetated buffer shall be maintained for water bodies where feasible (e.g., wetlands and streams).
- To the extent practicable, surface flow shall be diverted away from exposed soils via diversion berms, earth dikes, perimeter dikes/swales, temporary swales, water bars, and/or check dams.
- Resource areas (e.g., wetlands, streams, RTE plant species) shall be flagged prior to any construction related activities occurring within close proximity to those areas.
- Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not violate water quality standards or contribute to erosion. Dewatering details shall be reviewed and approved by OSPC prior to use.
- Concentrated runoff shall not flow down steep slopes unless contained within an adequate temporary or permanent channel (see details), flume, or slope drain structure.
- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:  
a. No more than 500 linear feet of trench may be opened at one time.  
b. Excavated material shall be placed on the uphill side of trenches, where feasible, but not in resource areas.



**Seeding Specifications**

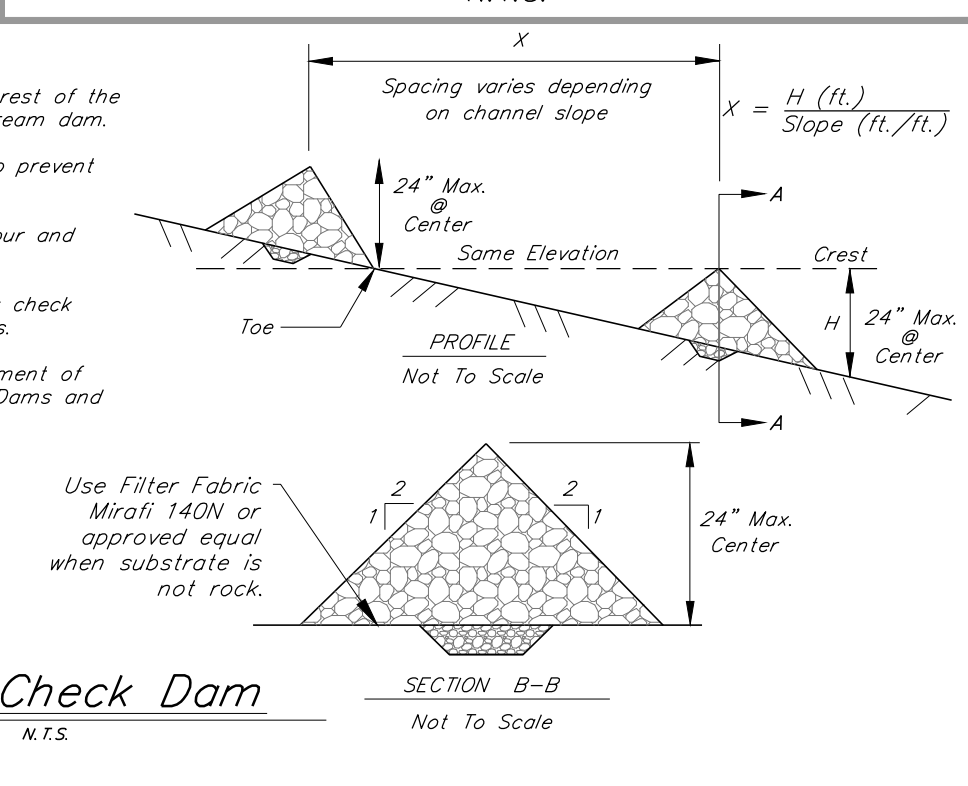
Seed	% Weight	% Germination
Winter Rye	80% Minimum	85 Min.
Red Fescue (Creeping)	4 Min.	90 Min.
Perennial Rye Grass	3 Min.	90 Min.
Red Clover	3 Min.	90 Min.
Other Crap Grass	0.5 Max.	
Noxious Weed Seed	0.5 Max.	
Inert Matter	1.0 Max.	

**Permanent Seed Mix shall be used as early as practicable between 5/15 and 9/15 and shall meet the following criteria:**

**Temporary Seed Mix shall be used between 9/16 and 5/14 and shall meet the following criteria:**

**CONSTRUCTION SPECIFICATIONS**

- Set spacing of check dams to assume that the elevations of the crest of the downstream dam is at the same elevation of the toe of the upstream dam.
  - Extend the stone a minimum of 1.5 feet beyond the ditch banks to prevent cutting around the dam.
  - Protect the channel downstream of the lowest check dam from scour and erosion with stone or erosion control matting as appropriate.
  - Ensure that channel appurtenances such as culvert entrances below check dams are not subject to damage or blockage from displaced stones.
  - Stone Check Dams may be left in place or removed after establishment of permanent vegetative cover along swales adjacent to Stone Check Dams and at the direction of the Owner.
- 
- Section A-A**
- Section B-B**
- Stone Check Dam**  
N.T.S.

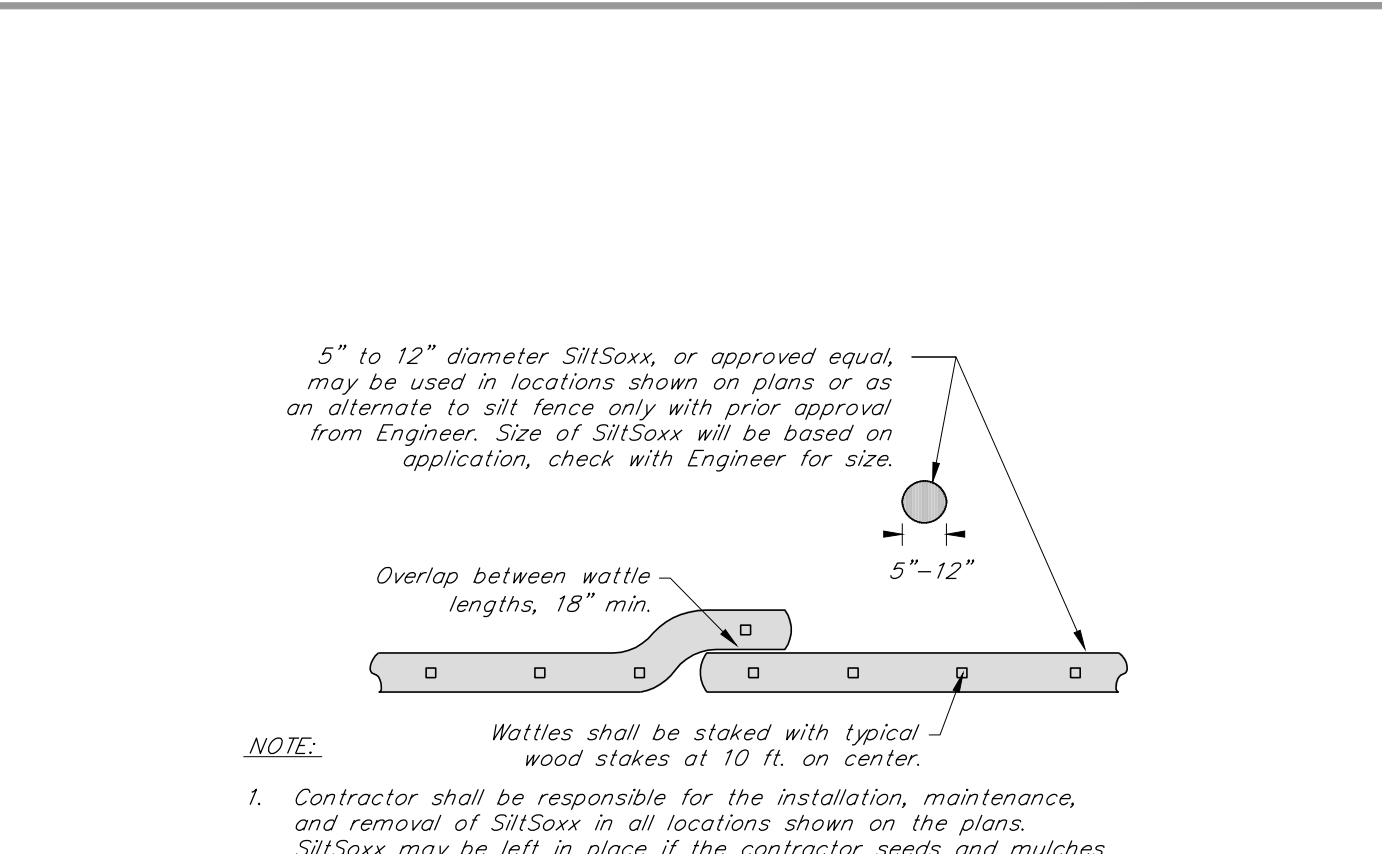
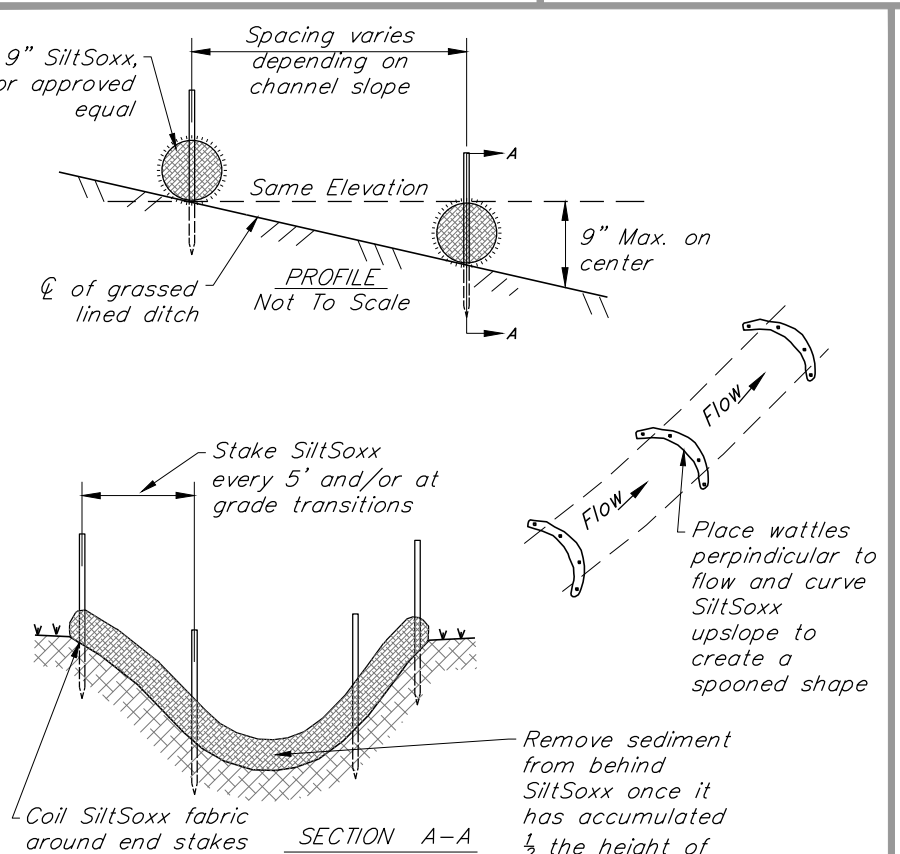


**EPSC GENERAL NOTES**

- Erosion prevention and sediment control (EPSC) practices shall be implemented in all areas where there is an increased risk of erosion, and where there is potential for discharge of stormwater runoff (either direct or indirect) to a water body.
- EPSC measures shall be installed prior to any earth disturbing activities within a given drainage area with the exception of land disturbance that may result from accessing the area(s) with equipment in which EPSC measures are to be installed. This exception includes land disturbance that may result from access of equipment that is needed for: logging (See note #5), exploration and/or EPSC measure installation phases of the project. Temporary sediment basins, temporary sediment traps, perimeter dikes, temporary sediment barriers, and other temporary measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before upslope land disturbance takes place with the exception of those activities stated above. Earth disturbance includes stumping and grubbing of cleared areas.
- Where applicable, EPSC measures shall be installed pursuant to the construction phase stormwater discharge permit for the project, this EPSC Plan, the Vermont Standards and Specifications for Erosion Prevention and Sediment Control (2019), Vermont Erosion Prevention and Sediment Control Field Guide (2019), and/or any other relevant project permits.
- Where applicable, all proposed changes shall be approved by the On-Site Plan Coordinator (OSPC) or his/her designee prior to implementation.
- Permission must be granted by VT DEC prior to use of any support activities occurring outside of the approved project boundaries.
- All parties associated with construction activities who meet either of the following two criteria of "Principal Operator" must obtain coverage under the construction stormwater discharge permit for the project prior to commencement of construction activities by that operator:  
a. The party has operational control over construction plans and specification, including but not limited to the ability to make modifications to those plans and specifications; or  
b. The party has continuous day-to-day operational control of those activities at the project that are necessary to ensure compliance with an EPSC Plan for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the EPSC Plan or comply with other permit conditions).

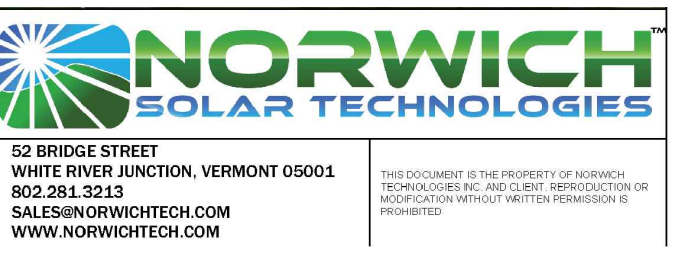
**Guide to Mulch Materials, Rates, and Uses**

Quality Standards	Per 1000 sq. ft.	Per Acre	Depth of Application	Remarks
Wood chips or shavings	Air-dried, free of objectionable coarse material 500-900 lbs	10-20 tons	2 - 7"	Used primarily around shrub and tree plantings and recreation trails to inhibit weed competition. Resistant to wind blowing. Decomposes slowly.
Wood fiber cellulose (partly digested wood fibers)	Made from natural wood usually with green dye and dispersing agent 50 lbs	2,000 lbs.	-	Apply with hydramulcher. No tie down required. Less erosion control provided than 2 tons of hay or straw.
Gravel, Crushed Stone or Slog	Washed: Size 20 or 34 - 1/2"	9 cu. yds.	3"	Excellent mulch for short slopes and around plants and ornaments. Use 2B where subject to traffic. (Approximately 2,000 lbs./cu. yd.). Frequently used over filter fabric for better weed control.
Hay or Straw	Air-dried, free of undesirable seeds & coarse materials 90-100 lbs	2-3 bales (100-120 bales)	2 tons (100-120 bales)	Cover about 90% surface. Use small grain straw where mulch is maintained for more than three months. Subject to wind blowing unless anchored. Most commonly used mulching material. Provides the best micro-environmental for germinating seeds.
Compost	Up to 3" pieces, moderately to highly stable 3-9 cu. yds	134-402 cu. yds.	1 - 3"	Coarser textured mulches may be more effective in reducing weed growth and wind erosion.
Erosion Control Mix	Well-graded mixture of particle sizes. Organic content between 80-100% dry weight. Particle size shall pass 6" screen (100%)			Comprised of shredded bark, stump grindings, composted bark, or acceptable manufactured products. May contain rock < 4" in diameter. Organics shall be fibrous and elongated. No large portions of silts, clays or fine sands. * Slopes 3:(H:V) or flatter = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. ** Slopes between 3:(H:V) and 2:(H:V) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. *** Slopes steeper than 2:(H:V) applicability to specific site and mulch depth to be reviewed and approved prior to use by OSPC or EPSC Specialist



**Putney Green Acres Solar, LLC**

River Road South  
Putney, Vermont



**KREBS & LANSING CONSULTING ENGINEERS**  
164 Main Street, Suite 201  
Colchester, Vermont 05446  
P: (802) 878-0375  
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**ISSUED FOR PERMIT REVIEW NOT FOR CONSTRUCTION**

**SOURCE DATA LEGEND**

MAPPING SOURCE DATA USED FOR PLAN COMPILATION  
Electrical Design:  
Norwich Solar Technologies  
950 Bert White Rd.  
White River Junction, Vermont 05001

Civil Engineering:  
Krebs & Lansing Consulting Engineers, Inc.  
164 Main Street, Suite 201  
Colchester, Vermont 05446

Environmental:  
Arrowood Environmental  
1515 Main Street  
Huntington, Vermont 05462

**Proposed Solar Array**

REV	REVISIONS/COMMENTS	DATE

Drawing Title:

**EROSION PREVENTION AND SEDIMENT CONTROL DETAILS**

DATE of Issue: 01/18/2021  
Drawn by: JBC Checked by:  
Project No.: 21102 Scale: NTS  
Drawing No.: Rev No.:

**C-102**