

Inspection Report for North Sturbridge Road Solar Facility

NPDES ID No.: MAR10031G

Inspection Date: 01/03/2022

General Information				
Weather conditions during inspection	34°F, cloudy, gusty	Inspection	10:00AM	Inspection end time 10:45 AM
Inspector Name, Title & Contact Information	Chanler Florian, Environmental Scientist (BETA Group, Inc.) cflorian@beta-inc.com 8603297045			
Present Phase of Construction	Phase 1. NOTE: The access road and stabilized construction entrance has been established pursuant to the Phase 1 scope of work. However, the entirety of the Site has been cleared of trees. No grubbing/stumping has occurred other than that required to establish the Site access road.			
Inspection Location	North Sturbridge Road Solar Facility – Entirety of Site (0 North Sturbridge Road, Charlton, MA 01507)			
Inspection Frequency <i>(Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply)</i> Standard Frequency: <input type="checkbox"/> Every 7 days <input checked="" type="checkbox"/> Every 14 days and within 24 hours of a 0.25" rain or the occurrence of runoff from snowmelt sufficient to cause a discharge Increased Frequency: <input type="checkbox"/> Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3) Reduced Frequency: <input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once per month after first month; (for stabilized areas) <input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once more within 24 hours of a 0.25" rain (for stabilized areas on "linear construction sites") <input type="checkbox"/> Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought) <input type="checkbox"/> Once per month (for frozen conditions where earth-disturbing activities are being conducted)				
Was this inspection triggered by a 0.25" storm event? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, how did you determined whether a 0.25" storm event has occurred? <input type="checkbox"/> Rain gauge on site <input checked="" type="checkbox"/> Weather station representative of site. Specify weather station source: Worcester Regional Airport Total rainfall amount that triggered the inspection (inches): 0.25" Was this inspection triggered by the occurrence of runoff from snowmelt sufficient to cause a discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

Unsafe Conditions for Inspection

Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.1.5? Yes No

If "yes", complete the following:

- Describe the conditions that prevented you from conducting the inspection in this location: N/A
- Location where conditions were found: N/A

Condition and Effectiveness of Erosion and Sediment (E&S) Controls (CGP Part 2.2)

Type/Location of E&S Control	Maintenance Needed?*			
1. Silt Fence and Straw Wattles	Yes (As of 9/2/2021)	No	9/2/2021	<p>A breach was observed at Discharge 2. Although the double row of straw bales is intact, silt fence was observed to be knocked over and signs of stormwater flow were detected in the area beyond the fence.</p> <p>A minor tear was identified in a section of silt fence on the southern side of the Site with no erosion observed.</p> <p>Minor degradation of a straw wattle was observed on the southeastern side of the Site; no erosion was observed but pools of water were found to be forming behind the straw wattle.</p>
2. Stabilized Construction Entrance (Site Entrance – Access Road)	No (As of 9/2/2021)	No		<p>A tree was knocked over and laying on the silt fence on the on the northwestern portion of the site in Zone 5.</p> <p>Hydroseed was applied to exposed soil in this area and continues to germinate, some grass seedlings are now observed.</p>
3. Stump and Soil Stockpile Area	No (As of 7/22/2021)	No	10/29/2021	<p>Minor tears were observed in the silt fence along the eastern boundaries of the Site, due to staples becoming dislodged from wooden stakes. The straw wattles are still intact.</p>
4. Dust Controls	N/A	N/A		
5. Jute Mesh (Steep Slopes)	N/A	N/A		
6. Temporary Seeding	No (As of 9/2/2021)	No	7/22/2021	<p>Hydroseed has been applied to the earthen access road and hand-application of seed was performed within the area beyond the limit of work that was subjected to Discharge 1. Germination was</p>

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7. Topsoil Re-Use	N/A	N/A	10/05/ 2021	observed within areas of disturbed soils within the limits of work; however, little to no germination was observed within the disturbed area downgradient of the limit of work. Additional seed should be hand-applied in this area.
8. Storm Drain Inlets (North Brookfield Road)	N/A	N/A		The areas downgradient of Discharges 1 and 2 have been stabilized with straw and seed. These areas will be monitored for germination and stabilization.
9. Temporary Drainage Swales (Throughout Site)	N/A	N/A	10/29/ 2021	Seedling growth is observed.
10. Temporary Sediment Basins	N/A	N/A	12/27/ 2021	Localized pooling is observed in the eastern portion of the site. Silt waddle are distributed by growing vegetation in eastern portion of the site.

Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)

Type/Location of P2 Practices [insert additional rows if applicable]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. Equipment Refueling Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
2. Hydraulic Lines Staging/Work Areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
3. Equipment Maintenance Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
4. Sanitary Toilets Staging Area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	
5. Vehicle Accident Entire Site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	

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Staging/Work Areas				
8. Concrete Washout	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[Enter date]	

* Note: The permit differentiates between conditions requiring routine maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition. Corrective actions are triggered only for specific conditions, which include: 1) A stormwater control needs repair or replacement (beyond routine maintenance) if it is not operating as intended; 2) A stormwater control necessary to comply with the permit was never installed or was installed incorrectly; 3) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 4) One of the prohibited discharges in Part 1.3 is occurring or has occurred; or 5) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.8. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#resources>. See Part 5 of the permit for more information.

Stabilization of Exposed Soil (CGP Part 2.2.14)			
Stabilization Area [insert additional rows if applicable]	Stabilization Method	Have You Initiated Stabilization?	Notes
1. Earthen access road leading to stockpile area	Straw mulch or hydroseed	<input checked="" type="checkbox"/> Yes 7/30/2021 <input type="checkbox"/> No	The stockpile area and associated access road have been hydroseeded. Germination has begun and the area will be monitored for successful establishment.
2. Informal access road along northern portion of the Site	Straw mulch or hydroseed	<input type="checkbox"/> Yes [Enter date] <input checked="" type="checkbox"/> No	Erosion channels are beginning to form within upgradient portions of the informal access road (Figure 1). The contractor indicated that stabilization by smoothing out soils and seeding or spreading mulch would occur on 7/30/2021. Stabilization of this area has not been initiated. After inspection of the area on 8/24/2021, it was determined that

<p>3. Area beyond the limits of work at Discharge 1</p>	<p>Hand application of seed</p>	<p><input checked="" type="checkbox"/> Yes 8/24/2021 <input type="checkbox"/> No</p>	<p>temporary swales would likely alleviate the issue of channelization in this area; however, these swales will not be constructed until work resumes at the Site in October (pending local approval). This area will continue to be monitored; however, stabilization is not required since the area is not discharging sediment beyond the limits of work.</p> <p>The sediment deposit previously observed has been removed from beyond the limits of work and the area has been seeded. No sediment migrated within 50 feet of a "water of the US". Straw and additional seed was applied on 8/24/2021 and will be monitored for successful establishment.</p>
<p>4. Area beyond limits of work at Discharge 2</p>	<p>Hand application of seed</p>	<p><input type="checkbox"/> Yes Enter Date <input checked="" type="checkbox"/> No</p>	<p>Stabilization required</p>

Description of Discharges (CGP Part 4.6.6)

Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? Yes No

If "yes", provide the following information for each point of discharge:

Discharge Location	Observations
<p>Discharge 1</p>	<p>Describe the discharge: Breach in silt fence allowed runoff to bypass erosion controls.</p> <p>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: Small areas of bare soil observed in area immediately beyond perimeter controls. Repairs to erosion controls and re-seeding of damaged areas is required.</p>

Contractor or Subcontractor Signature and Certification


"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____ Date: _____

Printed Name and Affiliation: _____

Operator Signature and Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Operator or "Duly Authorized Representative":  Date: _____

Printed Name and Affiliation: Chanler Florian 01/03/2022

CONCEPTUAL CONSTRUCTION SEQUENCE

- PHASE 0**
- INSTALL SITEWIDE PERIMETER EROSION CONTROLS AND STABILIZED CONSTRUCTION ENTRANCE
 - CONFIRM AND MARK LIMITS OF PROPERTY LINES AND RESOURCE AREA BUFFER ZONES.
- FOR EACH OF THE FOLLOWING PHASES 1 THROUGH 5: COMPLETE THE LISTED WORK WITHIN THE ASSOCIATED "ZONE."
- PHASE 1:**
- VERIFY INTEGRITY OF PERIMETER CONTROLS WITHIN ZONE
 - CLEAR AND GRUB (SEE NOTE 2)
 - ESTABLISH STOCKPILE AND STAGING AREAS (UTILIZE TEMPORARY AREAS AS NEEDED PRIOR TO ACCESS ROAD INSTALLATION)
 - INSTALL GRASSSED SEDIMENT CONTROL SWALES
 - INSTALL UPGRADIENT SWALE, CULVERT, AND LEVEL SPREADER.
 - INSTALL GRAVEL ACCESS ROAD AND UTILITY POLES.
 - STABILIZE/RESTORE ZONE (SEE NOTES 3 THROUGH 5)
- PHASES 2 - 5**
- VERIFY INTEGRITY OF PERIMETER CONTROLS WITHIN ZONE
 - INSTALL SEDIMENT FOREBAYS, EARTHEN SWALES, GRASSSED SEDIMENT CONTROL SWALES, AND CHECK DAMS (CLEAR AND GRUB AS NEEDED)
 - CLEAR AND GRUB ZONE
 - INSTALL ACCESS/PERIMETER ROAD
 - INSTALL SOLAR ARRAY COMPONENTS, EXCEPT WITHIN FOOTPRINT OF TEMPORARY BASINS.
 - STABILIZE/RESTORE ZONE.
 - FOR ZONES 2 AND 5, WHEN ZONE IS STABILIZED, CONVERT SWALES/BASINS TO FINAL STORMWATER BMPs.
 - FOR ZONES 3 AND 4, RETAIN SWALES/BASINS UNTIL DOWNGRADIENT SWALES/BASINS ARE CONSTRUCTED FOR SUBSEQUENT PHASE. THEN, REMOVE THE UPGRADIENT SWALES/BASINS AND INSTALL SOLAR ARRAY COMPONENTS WITHIN FOOTPRINT.
- PHASE 6 (SITEWIDE)**
- CONVERT ZONE 2 AND ZONE 5 BASINS/SWALES INTO FINAL DESIGN (SEE SHEETS 6-8 AND SHEET 13). RETAIN GRASSSED SEDIMENT CONTROL SWALES, REMOVE (BACKFILL) REMAINING EXTRANEOUS SEDIMENT FOREBAYS, EARTHEN SWALES, AND CHECK DAMS.
 - INSTALL REMAINING BASIN COMPONENTS, GRASSSED SWALES, AND OTHER STORMWATER MANAGEMENT SYSTEMS.
 - INSTALL ANY REMAINING COMPONENTS OF ARRAY AND ELECTRICAL SYSTEMS.
 - INSTALL PERIMETER FENCE, GATES, KNOX BOX, AND APPROPRIATE SIGNAGE.
 - INSTALL LANDSCAPE PLANTINGS, ADJUST STONE WALL NEAR SITE ENTRANCE.
 - COMPLETE PERMANENT STABILIZATION OF ALL AREAS NOT YET RESTORED.
 - REMOVE EROSION CONTROLS ONCE FINAL STABILIZATION IS ACHIEVED.

PREPARED BY



www.BETA-Inc.com

PREPARED FOR:



Nextera Energy, Inc.
700 Universe Blvd.
Juno Beach, FL, 33408

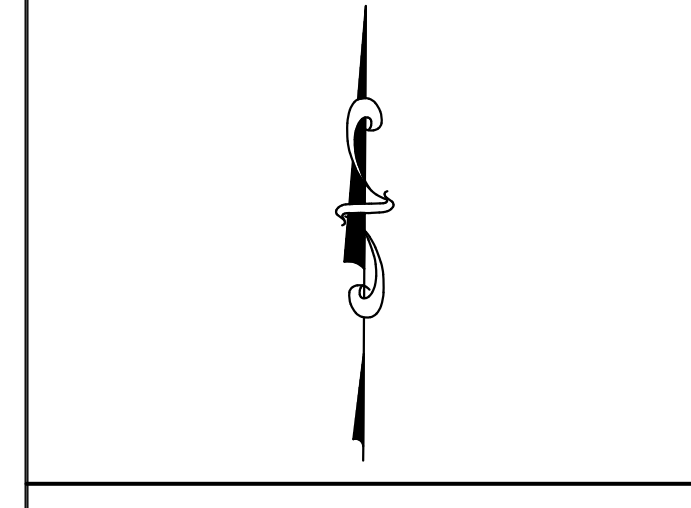
NORTH STURBRIDGE ROAD SOLAR FACILITY

North Sturbridge Road
Charlton, MA

**FIGURE 1:
SWPPP
INSPECTION
SKETCH
01/03/2022**

NO.	REVISIONS	DATE
9	ADJUSTED BASIN DESIGN	8/17/2021
8	ADJUSTED NOTES	7/23/2021
7	ADJUSTED ARRAY LAYOUT	4/9/2021
6	ADJUSTED ARRAY LAYOUT	3/10/2021
5	REVISED ARRAY LIMITS, ADDED SEQUENCING INFORMATION	1/6/2021
4	ADDED PERIMETER ACCESS ROAD AND REVISED ARRAY LIMITS	3/5/2020
3	ADDED STONE BERM AND LEVEL SPREADER	9/19/2018
2	ADDED BAR GATE AT ROAD ENTRANCE AND CULVERT BENEATH ACCESS ROAD, ADJUSTED FRONT GATE DESCRIPTION	10/31/2018
1	ADJUSTED FENCE, ADDED RELOCATED STONE WALL TO SITE ENTRANCE	9/19/2018

DRAWN BY: SLB
DESIGNED BY: SLB
CHECKED BY: DPR
ISSUE DATE: SEPTEMBER 12, 2018
BETA JOB NO.: 5989

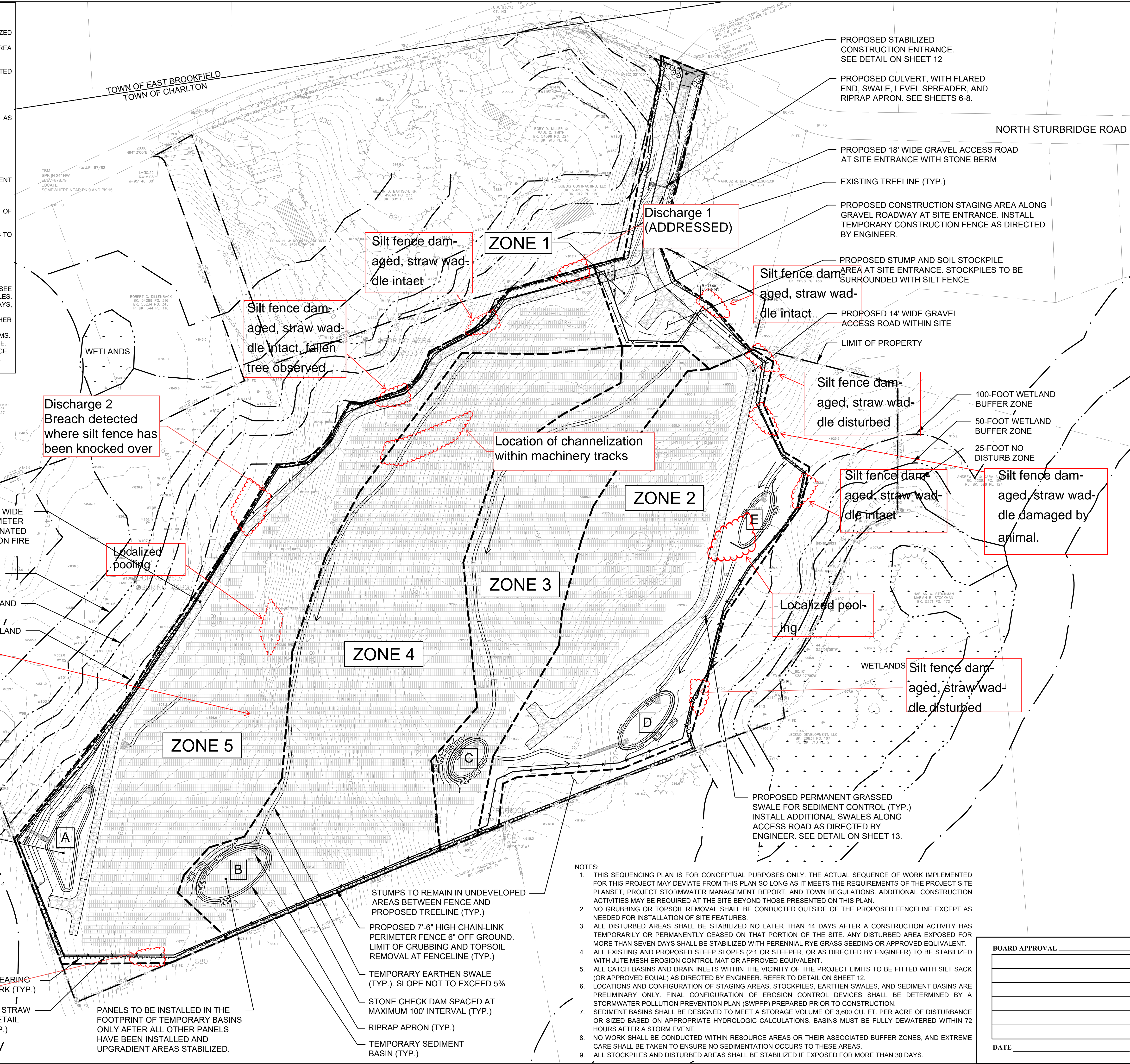


Owner:
Sturbridge Road Solar Farm, LLC.
Land Development Permit Number:

BOARD APPROVAL

80 0 80 160
SCALE IN FEET: 1"=80'
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO. **4**



- NOTES:**
- THIS SEQUENCING PLAN IS FOR CONCEPTUAL PURPOSES ONLY. THE ACTUAL SEQUENCE OF WORK IMPLEMENTED FOR THIS PROJECT MAY DEVIATE FROM THIS PLAN SO LONG AS IT MEETS THE REQUIREMENTS OF THE PROJECT SITE PLANSET, PROJECT STORMWATER MANAGEMENT REPORT, AND TOWN REGULATIONS. ADDITIONAL CONSTRUCTION ACTIVITIES MAY BE REQUIRED AT THE SITE BEYOND THOSE PRESENTED ON THIS PLAN.
 - NO GRUBBING OR TOPSOIL REMOVAL SHALL BE CONDUCTED OUTSIDE OF THE PROPOSED FENCELINE EXCEPT AS NEEDED FOR INSTALLATION OF SITE FEATURES.
 - ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER A CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED ON THAT PORTION OF THE SITE. ANY DISTURBED AREA EXPOSED FOR MORE THAN SEVEN DAYS SHALL BE STABILIZED WITH PERENNIAL RYE GRASS SEEDING OR APPROVED EQUIVALENT.
 - ALL EXISTING AND PROPOSED STEEP SLOPES (2:1 OR STEEPER, OR AS DIRECTED BY ENGINEER) TO BE STABILIZED WITH JUTE MESH EROSION CONTROL MAT OR APPROVED EQUIVALENT.
 - ALL CATCH BASINS AND DRAIN INLETS WITHIN THE VICINITY OF THE PROJECT LIMITS TO BE FITTED WITH SILT SACK (OR APPROVED EQUAL) AS DIRECTED BY ENGINEER. REFER TO DETAIL ON SHEET 12.
 - LOCATIONS AND CONFIGURATION OF STAGING AREAS, STOCKPILES, EARTHEN SWALES, AND SEDIMENT BASINS ARE PRELIMINARY ONLY. FINAL CONFIGURATION OF EROSION CONTROL DEVICES SHALL BE DETERMINED BY A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED PRIOR TO CONSTRUCTION.
 - SEDIMENT BASINS SHALL BE DESIGNED TO MEET A STORAGE VOLUME OF 3,600 CU. FT. PER ACRE OF DISTURBANCE OR SIZED BASED ON APPROPRIATE HYDROLOGIC CALCULATIONS. BASINS MUST BE FULLY DEWATERED WITHIN 72 HOURS AFTER A STORM EVENT.
 - NO WORK SHALL BE CONDUCTED WITHIN RESOURCE AREAS OR THEIR ASSOCIATED BUFFER ZONES, AND EXTREME CARE SHALL BE TAKEN TO ENSURE NO SEDIMENTATION OCCURS TO THESE AREAS.
 - ALL STOCKPILES AND DISTURBED AREAS SHALL BE STABILIZED IF EXPOSED FOR MORE THAN 30 DAYS.

8/20/2018 11:51 AM: C:\596055889 - SUNPIN SOLAR - CHARLTON\DRAWING FILES\PLANSET\NORTHSTURBRIDGEROADSOLARFACILITY-EROSIONCONTROL.PLAN.DWG

Photo 1



View of tree fallen on northwestern portion of Zone 5.

Photo 2



View of area downgradient of Discharge 2—facing north west.

PHOTOGRAPHIC DOCUMENTATION
North Sturbridge Road Solar Facility
Charlton, Massachusetts
Photographs Documented 01.03.2022

Photo 3



Photo 4

View of the damaged silt fence in southern perimeter of Site —facing south.



View of damaged silt fence and waddle in eastern portion of the Site —facing east

PHOTOGRAPHIC DOCUMENTATION
North Sturbridge Road Solar Facility
Charlton, Massachusetts
Photographs Documented 01.03.2022

Photo 5



View of the damaged silt fence in eastern portion of Site — facing south east.

Photo 6



View of damaged silt fence in south east portion of the Site —facing south east

PHOTOGRAPHIC DOCUMENTATION
North Sturbridge Road Solar Facility
Charlton, Massachusetts
Photographs Documented 01.03.2022

Photo 7



View of damaged silt fence in eastern portion of the Site —facing east

Photo 8



View of damaged silt fence in eastern portion of the Site —facing east

PHOTOGRAPHIC DOCUMENTATION
North Sturbridge Road Solar Facility
Charlton, Massachusetts
Photographs Documented 01.03.2022

Photo 9



View of damaged silt fence in eastern portion of the Site —facing east

Photo 10



View of damaged silt fence in north western portion of the Site —facing north west

PHOTOGRAPHIC DOCUMENTATION
North Sturbridge Road Solar Facility
Charlton, Massachusetts
Photographs Documented 01.03.2022

Photo 11



View of damaged silt fence and waddle in eastern portion of the Site —facing north east

Photo 12



View of damaged silt fence and waddle in south eastern portion of the Site —facing south east

PHOTOGRAPHIC DOCUMENTATION
North Sturbridge Road Solar Facility
Charlton, Massachusetts
Photographs Documented 01.03.2022