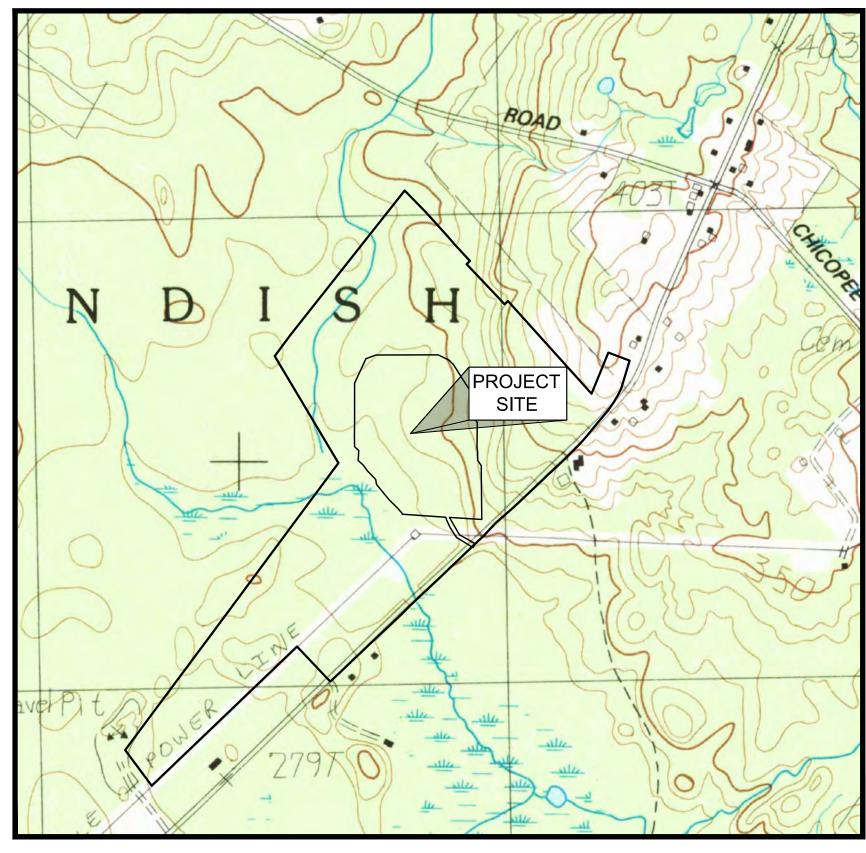
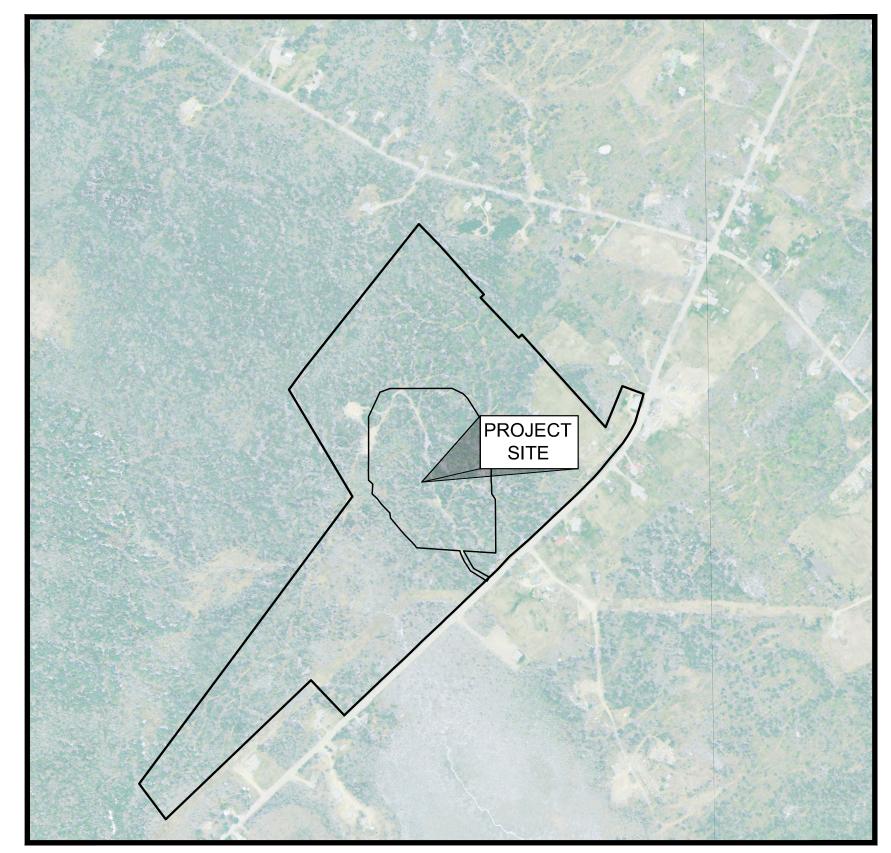
STANDISH BONNY EAGLE SOLAR 1, LLC 3,007.53 KW DC GROUND-MOUNT (2,490 KW AC) SOLAR PV DEVELOPMENT 425 BONNY EAGLE ROAD, STANDISH, MAINE **MAY 2020 ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION**



LOCUS MAP NOT TO SCALE



AERIAL IMAGE NOT TO SCALE

DRAWING INDEX

SHEET NUMBER	DRAWING TITLE	DRAWING NUMBER
	COVER SHEET	
1	EXISTING CONDITIONS PLAN	V-101
2	PROPOSED SITE PLAN	C-101
3	CONSTRUCTION, EROSION, AND SEDIMENTATION CONTROL DETAILS, AND NOTES	C-501
4	EROSION AND SEDIMENTATION CONTROL PLAN	C-502

PROPERTY OWNER

ROGER W. MOSLEY 80 PHINNEY ROAD STANDISH, MAINE 04084

DEVELOPED BY

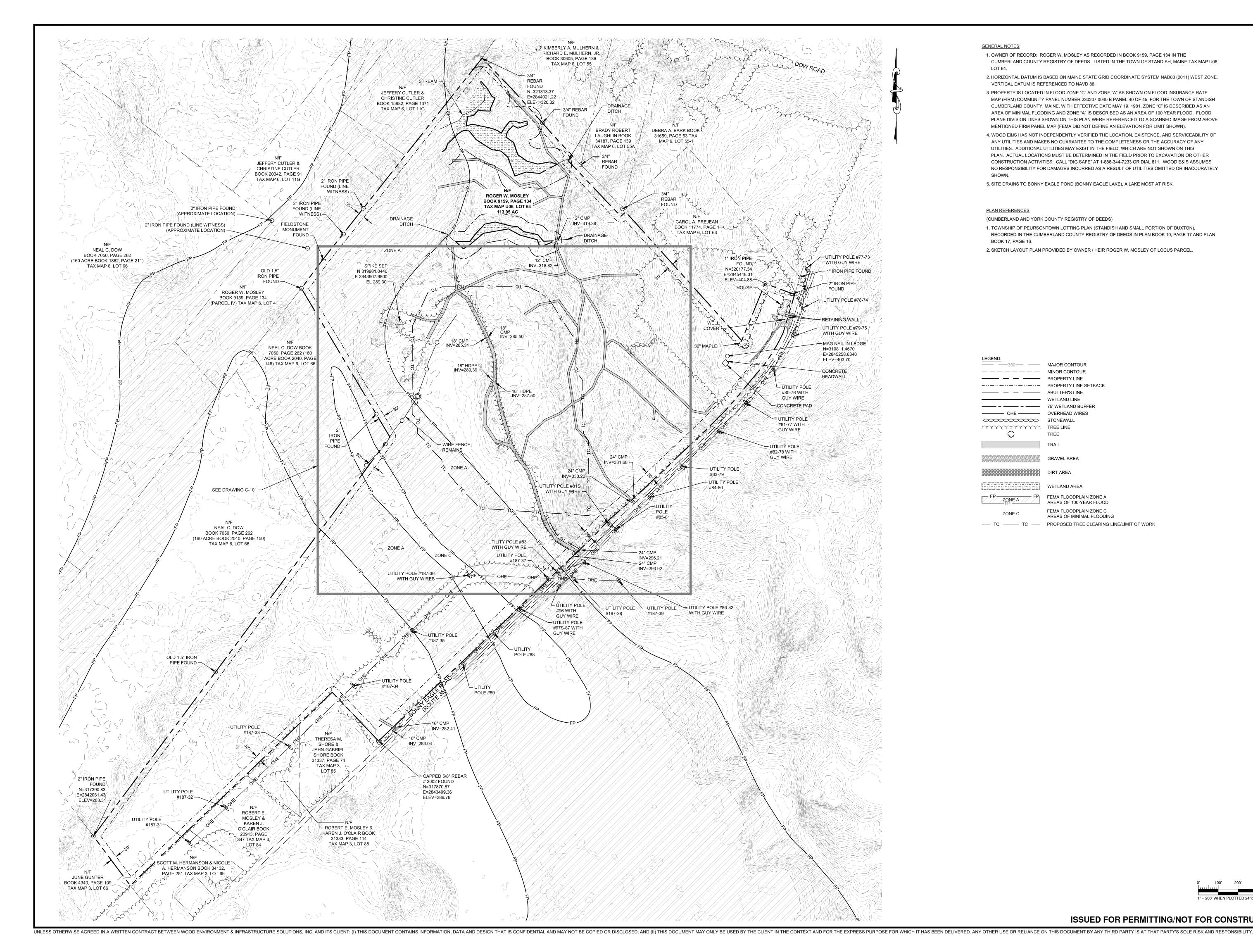
STANDISH BONNY EAGLE SOLAR 1, LLC

Soltage RENEWABLE ENERGY PROVIDER

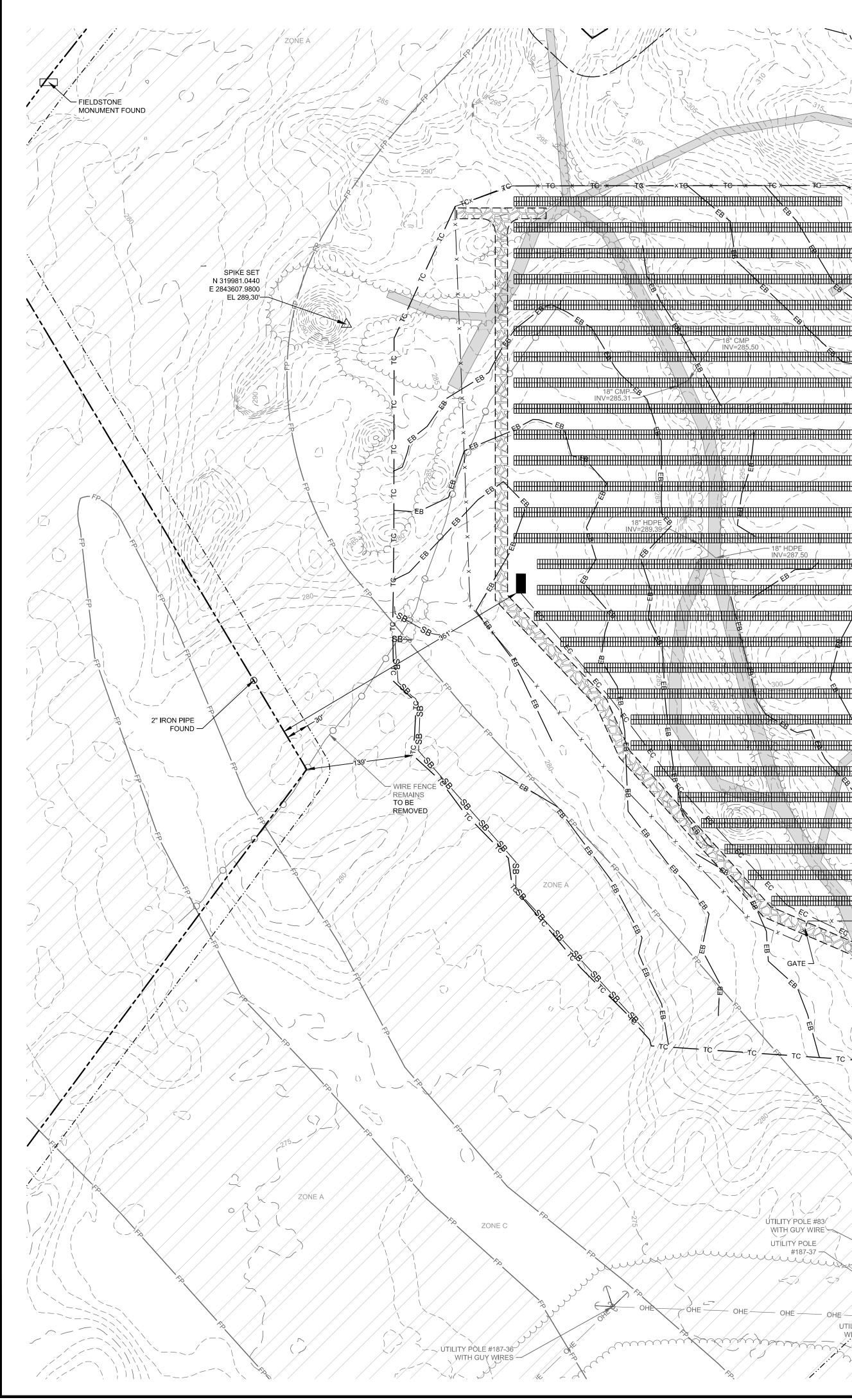
66 YORK STREET, 5TH FLOOR JERSEY CITY, NEW JERSEY 07302

PREPARED BY

wood. WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. 511 CONGRESS STREET #200 PORTLAND, MAINE 04101



	DGER W. MOSLEY AS RECORDED IN BOOK 9159, PAGE 134 IN THE REGISTRY OF DEEDS. LISTED IN THE TOWN OF STANDISH, MAINE ⁻		wo	od.	
CUMBERLAND COUNTY LOT 64. 2. HORIZONTAL DATUM IS VERTICAL DATUM IS RE	ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. 511 CONGRESS STREET #200 PORTLAND, MAINE 04101				
MAP (FIRM) COMMUNITY CUMBERLAND COUNTY	IN FLOOD ZONE "C" AND ZONE "A" AS SHOWN ON FLOOD INSURANC PANEL NUMBER 230207 0040 B PANEL 40 OF 45, FOR THE TOWN OI MAINE, WITH EFFECTIVE DATE MAY 19, 1981. ZONE "C" IS DESCRIB	F STANDISH ED AS AN	TELEPHONE: (2 FAX: (207) 7 WEB: WWW.WO	72-4762	
PLANE DIVISION LINES S MENTIONED FIRM PANE 4. WOOD E&IS HAS NOT IN ANY UTILITIES AND MAK	DING AND ZONE "A" IS DESCRIBED AS AN AREA OF 100 YEAR FLOO HOWN ON THIS PLAN WERE REFERENCED TO A SCANNED IMAGE F MAP (FEMA DID NOT DEFINE AN ELEVATION FOR LIMIT SHOWN). DEPENDENTLY VERIFIED THE LOCATION, EXISTENCE, AND SERVIC ES NO GUARANTEE TO THE COMPLETENESS OR THE ACCURACY C	FROM ABOVE EABILITY OF DF ANY		RJB	APPROVED
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RECORDED IN THE CUN BOOK 17, PAGE 16.	BERLAND COUNTY REGISTRY OF DEEDS IN PLAN BOOK 10, PAGE 1	7 AND PLAN		GNOT FOR CONSTRUCTION	ION DESCRIPTION
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<u>GEND:</u>	MAJOR CONTOUR MINOR CONTOUR PROPERTY LINE PROPERTY LINE SETBACK ABUTTER'S LINE			05/14/2020	DATE
ОНЕ —	WETLAND LINE 75' WETLAND BUFFER OVERHEAD WIRES STONEWALL TREE LINE TREE			0	REVISION
	TRAIL GRAVEL AREA		(2,490 KW AC) ENT ERTY DISH, MAINE		
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- TC TC	AREAS OF MINIMAL FLOODING PROPOSED TREE CLEARING LINE/LIMIT OF WORK		PROJECT: 3,007.53 KW DC GROUND-MOUNT (2, SOLAR PV DEVELOPMENT ROGER MOSLEY PROPERT 425 BONNY EAGLE ROAD, STANDIS	EXISTING CONDI	
			NT: STANDISH BONNY EAGLE SOLAR 1, LLC 66 YORK STREET, 5TH FLOOR JERSEY CITY NFW JFRSEY 07302	Soltage	RENEWABLE ENERGY PROVIDER
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UTILITY POLE #96 WITH GUY WIRE

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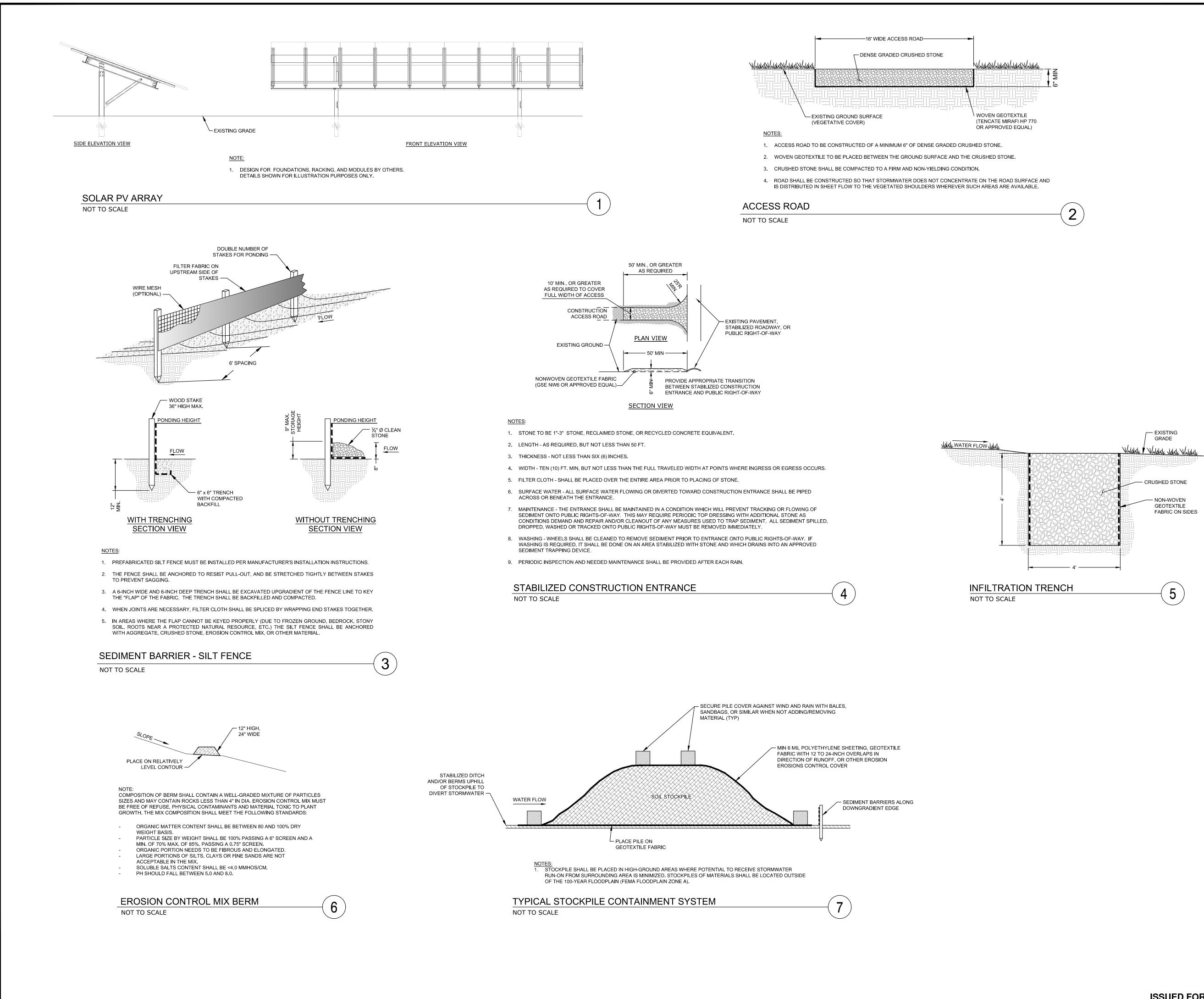
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UNLESS OTHERWISE AGREED IN A WRITTEN CONTRACT BETWEEN WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. AND ITS CLIENT: (I) THIS DOCUMENT MAY ONLY BE USED BY THE CLIENT IN THE CONTEXT AND FOR THE EXPRESS PURPOSE FOR WHICH IT HAS BEEN DELIVERED. ANY OTHER USE OR RELIANCE ON THIS DOCUMENT BY ANY THIRD PARTY'S SOLE RISK AND RESPONSIBILITY.



ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. 511 CONGRESS STREET #200 PORTLAND, MAINE 04101 TELEPHONE: (207) 775-5401 FAX: (207) 772-4762 WEB: WWW.WOODPLC.COM							
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PROJECT: 3,007.53 KW DC GROUND-MOUNT (2,490 KW AC) SOLAR PV DEVELOPMENT ROGER MOSLEY PROPERTY 425 BONNY EAGLE ROAD, STANDISH, MAINE TILE: TITL: CONSTRUCTION, EROSION, AND SEDIMENTATION CONTROL DETAILS, AND NOTES							
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EROSION AND SEDIMENTATION CONTROL PLAN:

THIS PLAN HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR CONTROLLING SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROPOSED PROJECT.

THIS PLAN IS BASED ON STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROL IN MAINE STORMWATER MANAGEMENT STANDARDS APPENDIX A AND MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MANUAL,

GENERAL EROSION AND SEDIMENTATION CONSTRUCTION DETAIL NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO SCHEDULE EARTHWORK OPERATIONS SUCH THAT THE AREA OF EXPOSED AND DISTURBED SOIL IS MINIMIZED. CONSTRUCTION SHALL BE PHASED TO MINIMIZE THE AREA OF DISTURBED SOIL THAT IS EXPOSED AT ANY ONE TIME. UPGRADIENT STORMWATER DIVERSION AND DISPERSION MEASURES SHALL BE INSTALLED WHERE APPROPRIATE. THE FOLLOWING MEASURES WILL BE UNDERTAKEN TO PROVIDE MAXIMUM PROTECTION TO THE SOIL, WATER, AND ABUTTING LANDS:

- 1. PRIOR TO GRUBBING OR ANY EARTH MOVING OPERATION, SEDIMENT BARRIERS WILL BE INSTALLED ACROSS THE SLOPE ON THE CONTOUR AT THE DOWNHILL LIMIT OF THE WORK AS PROTECTION AGAINST CONSTRUCTION RELATED EROSION.
- WITHIN 7 DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES IN AN AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS, STABILIZE ANY EXPOSED SOIL WITH MULCH, OR OTHER NON-ERODIBLE COVER. WHEN IT IS NOT POSSIBLE OR PRACTICAL TO PERMANENTLY STABILIZE DISTURBED LAND, TEMPORARY EROSION CONTROL MEASURES WILL BE IMPLEMENTED.
- ANY EXPOSED SLOPES GREATER THAN 3:1 AND NEWLY CONSTRUCTED DRAINAGE SWALES WILL BE STABILIZED WITH EROSION CONTROL MATTING TO PREVENT EROSION DURING CONSTRUCTION AND TO FACILITATE RE-VEGETATION AFTER PLACEMENT OF TOPSOIL AND SEEDING.
- NATIVE TOPSOIL SHALL BE SAVED, STOCKPILED, MULCHED, AND REUSED AS MUCH AS POSSIBLE ON THE SITE. SEDIMENT BARRIERS SUCH AS SILTATION FENCES SHALL BE INSTALLED AT THE BASE OF STOCKPILES AT THE DOWNHILL LIMIT TO PROTECT AGAINST EROSION. STOCKPILES SHALL BE STABILIZED UPON FORMATION OF THE PILES BY SEEDING AND MULCHING OR COVERING WITH AN EROSION CONTROL COVER. STABILIZED DITCHES AND/OR BERMS SHALL BE CONSTRUCTED UPHILL OF THE STOCKPILES TO DIVERT STORMWATER RUNOFF AWAY FROM THE PILES. STOCKPILES OF MATERIALS SHALL BE LOCATED OUTSIDE OF THE 100-YEAR FLOODPLAIN (FEMA FLOODPLAIN ZONE A).
- ALL SEDIMENT BARRIERS AND OTHER EROSION CONTROL MEASURES WILL BE INSPECTED BY THE CONTRACTOR ON A WEEKLY BASIS OR FOLLOWING ANY SIGNIFICANT RAINFALL (0.25 INCH OR MORE) OR SNOWMELT. ALL DAMAGED EROSION CONTROL DEVICES WILL BE REPAIRED AND/OR REPLACED IMMEDIATELY. TRAPPED SEDIMENT WILL BE REMOVED BEFORE IT HAS ACCUMULATED TO ONE-HALF OF THE INSTALLED SEDIMENT BARRIER HEIGHT. DEVICES NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION WILL ALSO BE REPAIRED AND/OR REPLACED AS NECESSARY.
- INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND INCORPORATED INTO THE PROJECT AREA.
- SHOULD CONSTRUCTION OCCUR AFTER NOVEMBER 15, ADDITIONAL EROSION CONTROL METHODS WILL BE IMPLEMENTED. ALL DISTURBED AREAS WILL BE MINIMIZED AS MUCH AS POSSIBLE. PRIOR TO FREEZING, ADDITIONAL EROSION CONTROL DEVICES WILL BE INSTALLED AS APPROPRIATE. INSPECTION OF THESE EROSION CONTROL ITEMS WILL BE CONSTANT, WITH PARTICULAR ATTENTION PAID TO WEATHER PREDICTIONS TO ENSURE THAT THESE MEASURES ARE PROPERLY IN PLACE TO HANDLE LARGE AMOUNTS OF RUNOFF FROM HEAVY RAINS OR THAWS.
- GENERAL EROSION AND SEDIMENTATION CONTROL ACTIONS SHALL INCLUDE THE FOLLOWING:
- MARK SOIL DISTURBANCE LIMITS
- INSTALL SEDIMENT BARRIERS BEFORE DISTURBING ANY SOILS
- DIVERT AND DISPERSE STORMWATER RUNOFF TO UNDISTURBED AREAS WHENEVER POSSIBLE
- MULCH DISTURBED AREAS PROTECT STEEP SLOPES
- INSPECT AND REPAIR EROSION CONTROLS AND SEDIMENT BARRIERS

SEEDING AND VEGETATION PLAN:

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED WILL BE TREATED AS STATED BELOW. THESE AREAS WILL BE CLOSELY MONITORED BY THE CONTRACTOR UNTIL A SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED.

- TOPSOIL WILL BE SPREAD OVER ALL DISTURBED AREAS TO BE REVEGETATED AND SHALL BE GRADED TO A UNIFORM DEPTH OF FOUR (4) INCHES. TOPSOIL SHOULD NOT BE PLACED ON FROZEN, MUDDY, OR AN EXTREMELY WET SUBGRADE. PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE WILL BE LOOSENED OR SCARIFIED TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING
- FERTILIZER AND LIME SELECTIONS BASED ON SOIL TESTING IS RECOMMENDED. IN ABSENCE OF A SOIL TEST, APPLY LIME AT A RATE OF 3 TONS PER ACRE AND 10-20-20 FERTILIZER AT A RATE OF 800 POUNDS PER ACRE. 40% OF NITROGEN SHALL BE IN AN ORGANIC OR SLOW-RELEASED FORM. TOPSOIL SHOULD HAVE 3-5% ORGANIC MATTER, NO MORE THAN 500 PPM SOLUBLE SALTS, AND A PH RANGE THAT IS BETWEEN 6.0 - 7.5. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL.
- 3. APPLY SEED AS DIRECTED BELOW: **APRIL 1 THROUGH SEPTEMBER 1**
 - SEED DISTURBED AREAS AT THE RATE OF 20 POUNDS PER ACRE OF THE FOLLOWING MIXTURE:
 - ERNST SEEDS ERNMX-105 OR APPROVED EQUAL
 - APPLY HAY MULCH AT A RATE OF 1.5 TO 2 TONS PER ACRE. MULCH THICKNESS SHALL NOT EXCEED 1 INCH.
 - SEPTEMBER 1 THROUGH DATE OF FIRST SNOWFALL
 - SEED DISTURBED AREAS AT THE RATE OF 60 POUNDS PER ACRE OF THE FOLLOWING MIXTURE:
 - ERNST SEEDS ERNMX-105 OR APPROVED EQUAL, PLUS WINTER RYE • APPLY HAY MULCH AT A RATE OF 3 TONS PER ACRE. MULCH THICKNESS SHALL NOT EXCEED 1 INCH.
 - AFTER FIRST SNOWFALL
 - DO NOT SEED.
 - APPLY HAY MULCH AT A RATE OF 3 TONS PER ACRE.
- APPLY SEEDS UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER).
- WATERING MAY BE REQUIRED DURING DRY PERIODS. CONSULT SEED MANUFACTURES DIRECTIONS.
- MULCH SHALL BE ANCHORED BY WATERING OR TRACKING BY BULLDOZER ON FLAT AREAS, USING ANCHORING EMULSION OR TRACKING BY BULLDOZER ON AREAS OF MODERATE SLOPES AND INSTALLING BIODEGRADABLE NETS ON STEEP SLOPES (3:1 AND STEEPER).
- INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEED IMMEDIATELY. CONDUCT A FOLLOW-UP SURVEY AFTER ONE YEAR AND RESEED WHERE NECESSARY.
- 8. IF THERE ARE AREAS WITH LESS THAN 40% COVER, REEVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. IF THE SEASON PREVENTS RESOWING. MULCH IS AN EFFECTIVE TEMPORARY COVER.
- SEEDED AREAS SHOULD BE FERTILIZED DURING THE SECOND GROWING SEASON.
- 10. LIME AND FERTILIZER THEREAFTER AT PERIODIC INTERVALS AS NEEDED.
- 11. ALL SEDIMENT CONTROL STRUCTURES WILL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 90% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

MONITORING PROGRAM:

- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS, BEFORE STORM EVENTS, WITHIN 24 HOURS AFTER A STORM EVENT (RAINFALL OR EXCESS SNOWMELT), AND PRIOR TO COMPLETING PERMANENT STABILIZATION MEASURES. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL SHALL CONDUCT THE INSPECTIONS. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES DAMAGED BY CONSTRUCTION EQUIPMENT, VANDALS, OR THE ELEMENTS WILL BE REPAIRED OR REPLACED IMMEDIATELY, PRIOR TO CONTINUING THE CONSTRUCTION. THE REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPS OR SIGNIFICANT REPAIR OF BMPS ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
- FOLLOWING THE FINAL SEEDING, THE SITE WILL BE INSPECTED IN ACCORDANCE WITH THE SCHEDULE OUTLINED IN #1 ABOVE, TO ENSURE THAT THE VEGETATION HAS BEEN ESTABLISHED (90% MATURE VEGETATION COVER ACHIEVED). IN THE EVENT OF ANY UNSATISFACTORY GROWTH, RESEEDING WILL BE CARRIED OUT, WITH FOLLOW-UP INSPECTION.
- AFTER THE CONSTRUCTION INSPECTOR HAS DETERMINED THAT THE PROJECT AREA HAS STABILIZED (90% MATURE VEGETATION COVER ACHIEVED), THE CONTRACTOR SHALL REMOVE ALL SEDIMENT BARRIERS AND ANY OTHER TEMPORARY EROSION CONTROL MEASURES WITHIN 30 DAYS.
- DOCUMENTATION THE CONTRACTOR SHALL KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS, MATERIALS STORAGE AREAS, AND VEHICLES ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPS THAT NEED MAINTENANCE, BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPS, NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN.

THE LOG MUST BE MADE ACCESSIBLE TO MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM

THE COMPLETION OF PERMANENT STABILIZATION. DUST CONTROL:

1. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE THE AREA OF DISTURBED SOIL THAT IS EXPOSED AT ONE TIME. 2. IF DUSTY CONDITIONS OCCUR ON-SITE (E.G. FROM DRY AND/OR WINDY CONDITIONS OR INCREASED VEHICULAR TRAFFIC), THE FOLLOWING DUST CONTROL MEASURES SHALL BE IMPLEMENTED:

• DUST CONTROL METHODS SHALL BE APPROVED BY THE ENGINEER AND MAY INCLUDE VEGETATIVE COVER, WATER SPRINKLING, CALCIUM CHLORIDE, STONE, AND SOIL BINDERS.

- VEGETATIVE COVER FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
- WATER WATER SHALL BE APPLIED AT A RATE SUFFICIENT TO MOISTEN EXPOSED SOIL TO PREVENT DUST TRANSPORT BUT NOT AT A RATE THAT PRODUCES ANY AMOUNT OF SILT-LADEN RUNOFF OR MUDDY POOLS IN THE TRAVEL WAY. • CALCIUM CHLORIDE - LIQUID OF FINE-FLAKED CALCIUM CHLORIDE MAY BE USED. CALCIUM CHLORIDE SHOULD NOT BE APPLIED
- ADJACENT TO WETLANDS, LAKES, POOLS OR OTHER NATURALLY SENSITIVE AREAS. LIMIT APPLICATION RATES TO 30% CALCIUM CHLORIDE OR AS RECOMMENDED BY MANUFACTURER. • STONE - COARSE GRAVEL SHOULD BE PLACED IN AREAS THAT ROUTINELY EXPERIENCE DUSTY CONDITIONS. USE ONLY
- CHEMICALLY STABLE AGGREGATES. SOIL BINDERS - SOIL BINDERS MAY BE APPLIED ONTO SOIL TO PREVENT PARTICLES FROM BLOWING AWAY. PRE-WETTING,
- 24-HOUR CURING TIME, AND MINIMUM TEMPERATURES MAY BE REQUIRED FOR USE OF SOIL BINDERS, ASPHALT OR OIL-BASED BINDERS ARE NOT ALLOWED.

WINTER CONSTRUCTION:

1. THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A GRAVEL ROAD BASE, 90% MATURE VEGETATION COVER, MULCH, OR RIPRAP BY NOVEMBER 1, THE SITE SHALL BE PROTECTED WITH OVER-WINTER STABILIZATION MEASURES.

2. THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN ONE (1) ACRE OF THE SITE IS WITHOUT

STABILIZATION AT ANY ONE TIME. 4. SITE STABILIZATION - FOR WINTER STABILIZATION, HAY MULCH IS APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE OR 150 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE). AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION. BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED WITH NETTING (PEG AND TWINE) OR TACKIFIER. NO SOIL SHOULD BE VISIBLE THROUGH THE MULCH.

SOIL STOCKPILES - STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY AT TWICE THE NORMAL RATE OR 150 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOODWASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES.

SEDIMENT BARRIERS - SEDIMENT BARRIERS THAT MUST BE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF WOODWASTE FILTER BERMS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF SILTATION FENCES.

SEEDING - SEEDING SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE SEEDING AND VEGETATION PLAN. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS SUFFICIENTLY VEGETATED (LESS THAN 90% CATCH) SHALL BE REVEGETATED BY REPLACING SEED, AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.

8. TRENCH DEWATERING - WATER FROM CONSTRUCTION TRENCH DEWATERING OR TEMPORARY STREAM DIVERSION WILL PASS FIRST THROUGH A FILTER BAG OR SECONDARY CONTAINMENT STRUCTURE (E.G. HAY BALE LINED POOL) PRIOR TO DISCHARGE. THE DISCHARGE SITE SHALL BE SELECTED TO AVOID FLOODING, ICING, AND SEDIMENT DISCHARGES TO A PROTECTED RESOURCE. IN NO CASE SHALL THE FILTER BAG OR CONTAINMENT STRUCTURE BE LOCATED WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES - THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE SLOPES BY NOVEMBER 15. THE CONTRACTOR SHALL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 1. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 1, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

- A. <u>STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATTING -</u> BY OCTOBER 1 THE CONTRACTOR SHALL SEED THE DISTURBED SLOPE WITH WINTER RYE AT SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATTING OVER THE MULCHED SLOPE. THE CONTRACTOR SHALL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 90% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR SHALL COVER THE SLOPE WITH A LAYER OF EROSION CONTROL MIX AS DESCRIBED IN ITEM "C" OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED AS DESCRIBED IN ITEM "D" OF THIS STANDARD
- STABILIZE THE SLOPE WITH SOD THE CONTRACTOR SHALL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTRACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR SHALL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
- STABILIZE THE SLOPE WITH EROSION CONTROL MIX THE CONTRACTOR SHALL PLACE A 6-INCH LAYER OF EROSION CONTROL MIX ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE EROSION CONTROL MIX. THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE CONTRACTOR SHALL NOT USE WOODWASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
- D. <u>STABILIZE THE SLOPE WITH STONE RIPRAP THE CONTRACTOR SHALL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY</u> NOVEMBER 15. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

10. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOIL - BY SEPTEMBER 15, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER

- STABILIZE THE SOIL WITH TEMPORARY VEGETATION BY OCTOBER 1, THE CONTRACTOR SHALL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR SHALL MONITOR THE GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 90% OF THE DISTURBED SOIL BEFORE NOVEMBER 1, THEN THE CONTRACTOR SHALL MULCH THE AREA FOR OVER- WINTER PROTECTION AS DESCRIBED IN ITEM "C" OF THIS STANDARD.
- STABILIZE THE SOIL WITH SOD THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
- STABILIZE THE SOIL WITH MULCH BY NOVEMBER 15, THE CONTRACTOR SHALL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE CONTRACTOR SHALL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

11. INSPECTION AND MONITORING - MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL IN THE SPRING INSPECT AND REPAIR ANY DAMAGES AND/OR UN-ESTABLISHED SPOTS. ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 90 % OF AREAS VEGETATED WITH VIGOROUS GROWTH.

UNLESS OTHERWISE AGREED IN A WRITTEN CONTRACT BETWEEN WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. AND ITS CLIENT: (I) THIS DOCUMENT BY AND THE COPIED OR DELIVERED. ANY OTHER USE OR RELIANCE ON THIS DOCUMENT BY AND RESPONSIBILITY.

HOUSEKEEPING

- IMPLEMENTATION.
- 3.

- A. DISCHARGES FROM FIREFIGHTING ACTIVITY; B. FIRE HYDRANT FLUSHINGS;
- D. DUST CONTROL RUNOFF IN ACCORDANCE WITH CONSTRUCTION GENERAL PERMIT CONDITIONS;
- DETERGENTS;

- K. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS.

1. SPILL PREVENTION - CONTROLS SHALL BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON-SITE FROM ENTERING STORMWATER. CONTROLS SHALL INCLUDE STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND

GROUNDWATER PROTECTION - DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER SHALL NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.

FUGITIVE SEDIMENT AND DUST - ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL. 4. DEBRIS AND OTHER MATERIALS - LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER

SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE. TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISION OF RULES RELATED TO SOLID, UNIVERSAL, AND HAZARDOUS WASTE, INCLUDING, BUT NOT LIMITED TO, THE MAINE SOLID WASTE AND HAZARDOUS WASTE MANAGEMENT RULES; MAINE HAZARDOUS WASTE MANAGEMENT RULES; MAINE OIL CONVEYANCE AND STORAGE RULES; AND MAINE PESTICIDE REQUIREMENTS.

TRENCH DE-WATERING - TRENCH DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE.

NON-STORMWATER DISCHARGES - CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST. THEY SHALL BE IDENTIFIED AND STEPS SHALL BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:

C. VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRAIGE AND TRANSMISSION WASHING IS PROHIBITED);

E. ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE

F. PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;

G. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;

H. UNCONTAMINATED GROUNDWATER OR SPRING WATER;

I. FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED; J. UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN ITEM 5 OF THIS STANDARD);

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	RJB	APPROVED
	APV	ISSUED
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	05/14/2020	DATE
	0	REVISION
PROJECT: 3,007.53 KW DC GROUND-MOUNT (2,490 KW AC) SOLAR PV DEVELOPMENT ROGER MOSLEY PROPERTY 425 BONNY EAGLE ROAD, STANDISH, MAINE TITLE:	EROSION AND SEDIMENTATION CONTROL PLAN	
CLIENT: STANDISH BONNY EAGLE SOLAR 1, LLC 66 YORK STREET, 5TH FLOOR JERSEY CITY NEW JERSEY 07302	Soltage	RENEWABLE ENERGY PROVIDER
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