Owner: Sebago Solar, LLC 143 Highland Shores Road Casco, Maine 04015 207-615-6850

Surveyor: Plisga & Day Land Surveyors 72 Main Street Bangor, Maine 04401 207-947-0019

Engineer of Record: Kirk Ball, PE Acheron Engineering Services 147 Main Street Newport, Maine 04953 207-368-5700

Code Enforcement: Windham Christopher Hanson 8 School Road Windham, Maine 04062 207-894-5960 Ext. 1

Code Enforcement: Raymond Alex Sirois 401 Webbs Mill Road Raymond, Maine 04071 207-655-4742 Ext. 161



Sebago Solar, LLC. Casco, Maine Pipe Line Road - Raymond & Windham, Maine

Engineering, Environmental & Geologic Consultants

www.AcheronEngineering.com 147 Main St. Newport, ME. 04953 (207)-368-5700

24466 Powell Rd. Brooksville, Fl. 34602 (352)-796-6236 Acheron International,

GENERAL NOTES:

- ACHERON ENGINEERING HAS USED A REASONABLE STANDARD OF CARE TO TRY TO LOCATE UNDERGROUND FACILITIES IN THE VICINITY OF THIS PROJECT. LOCATIONS OF UNDERGROUND FACILITIES DEPICTED ON THESE DRAWINGS ARE APPROXIMATE. EXCAVATORS MUST COMPLY WITH ALL REQUIREMENTS OF TITLE 23 SECTION 3360, PROTECTION OF UNDERGROUND FACILITIES, BEFORE COMMENCING OPERATIONS.
- SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES; STORAGE PRACTICES TO MINIMIZE EXPOSURE OF MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP AND IMPLEMENT, AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT AND RESPONSE PLANNING MEASURES.
- ANY SPILL OR RELEASE OF TOXIC OR HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. FOR OIL SPILLS, CALL 1-800-482-0777 WHICH IS AVAILABLE 24 HOURS A DAY. FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-482-4664 WHICH IS AVAILABLE 24 HOURS A DAY. FOR MORE INFORMATION VISIT THE MEDEP WEBSITE AT: WWW.MAINE.GOV/DEP/SPILLS/EMERGSPILLRESP/
- 4. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE 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. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE AND CONSEQUENT FLOODING AND DESTABILIZATION. NOTE: LACK OF APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY M.R.S.A. §465-C (1).
- 5. DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIAL TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE. NOTE: TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION AND POST CONSTRUCTION ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISIONS OF RULES RELATED TO SOLID, UNIVERSAL AND HAZARDOUS WASTES, INCLUDING BUT NOT LIMITED TO, THE MAINE SOLID WASTE MANAGEMENT RULES; MAINE HAZARDOUS WASTE RULES; MAINE OIL CONVEYANCE AND STORAGE RULES AND MAINE PESTICIDE REQUIREMENTS.
- 6. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE; DISCHARGES FROM FIREFIGHTING ACTIVITY, FIRE HYDRANT FLUSHING, VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED), DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS, ROUTINE EXTERNAL BUILDING WASHDOWN (NOT INCLUDING PAINT REMOVAL, NO DETERGENTS), PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED, NO DETERGENTS), UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE, UNCONTAMINATED GROUNDWATER OR SPRING WATER, FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING, POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING AND LANDSCAPE IRRIGATION.
- 7. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE MENTIONED IN GENERAL NOTE 7 SPECIFICALLY. THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE DISCHARGE OF THE FOLLOWING; WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OIL, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; SOAPS, SOLVENTS OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR RELEASE.

EROSION CONTROL NOTES:

- 1. DURING CONSTRUCTION USE PRECAUTION TO AVOID ANY EROSION AND TO PREVENT SILTING OF OCEANS, RIVERS, STREAMS, LAKES, RESERVOIRS, IMPOUNDMENTS, AND DRAINAGE DITCHES AND SWALES.
- 2. CONSTRUCTION SEQUENCE
- INSTALL TEMPORARY EROSION CONTROL MEASURES.
- DE-STUMP AND REMOVE BOULDERS.
- SEED ANY DISTURBED AREAS.
 CONSTRUCT STORMWATER MANAGEMENT FACILITIES.
- INSTALL SOLAR PANELS, SUBSTATION AND EQUIPMENT.
- INSTALL COLLECTOR LINES, REGRADE AND REVEGITATE ROADS.
- FINAL GRADING AND RESEEDING OF DISTURBED AREAS.
 REMOVE EROSION CONTROL DEVICES PENDING SUFFICIENT GROWTH IN SEEDED AREAS.
- 3. ALL CONSTRUCTION ACTIVITIES SHOULD FOLLOW GUIDANCE AS PRESENTED IN "MAINE EROSION AND SEDIMENT CONTROL PRACTICES, FIELD GUIDE FOR CONTRACTORS" PUBLISHED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN 2014.
- 4. MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR EROSION AND SEDIMENTATION CONTROL AND MAINTENANCE.
- 5. LOCATE AND MARK ALL PROJECT BOUNDARIES PRIOR TO CONSTRUCTION
- 6. LIMIT THE AMOUNT OF SOIL DISTURBANCE TO NO MORE THAN 2 ACRES AT ONE TIME OR NO LARGER AREA THAN CAN BE MULCHED IN ONE DAY.
- 7. MARK ALL SOIL DISTURBANCE LIMITS AND INSTALL SEDIMENT BARRIERS PRIOR TO DISTURBING SOILS.
- 8. MULCH EXPOSED SOIL AS SOON AS POSSIBLE, AND REVEGETATE AS SOON AS FINAL GRADE IS ATTAINED.
- 9. INSPECT AND REPAIR EROSION CONTROL AND SEDIMENT TRAPPING MEASURES WEEKLY AND AFTER EVERY STORM EVENT.
- 10. REMOVE TEMPORARY EROSION CONTROLS WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. PERMANENT STABILIZATION CONSISTS OF AT LEAST 90% VEGETATION, PAVEMENT, GRAVEL BASE OR RIP-RAP.
- 11. STABILIZE DITCHES WITHIN 24 HOURS OF FINAL GRADE.
- 12. ALL FILL MATERIAL MUST BE FREE OF FROZEN SOIL, ROCKS OVER 6-INCHES, SOD, BRUSH, STUMPS, TREE ROOTS, WOOD OR OTHER PERISHABLE MATERIALS.
- 13. INSTALL SEDIMENT BARRIERS DOWN SLOPE OF SOIL STOCK PILES.
- 14. DO NOT SITE SOIL STOCK PILE IN AREAS OF CONCENTRATED STORMWATER FLOW OR AREAS OF POTENTIAL FLOODING.
- 15. THE DURATION OF EXPOSURE OF UNCOMPLETED CUT SLOPES, EMBANKMENTS, TRENCH EXCAVATIONS, AND SITE GRADED AREAS SHALL BE MINIMIZED. INITIATE SEEDING AND OTHER EROSION CONTROL MEASURES ON EACH SEGMENT AS SOON AS REASONABLY POSSIBLE.
- 16. SHOULD IT BECOME NECESSARY TO SUSPEND CONSTRUCTION FOR MORE THAN 7 DAYS, SHAPE AND STABILIZE ALL EXCAVATED AND GRADED AREAS. PROVIDE AND MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS BERMS, DIKES, SLOPE DRAINS, SILT STOPS, AND SEDIMENTATION BASINS, UNTIL PERMANENT DRAINAGE FACILITIES OR EROSION CONTROL FEATURES HAVE BEEN COMPLETED AND ARE OPERATIVE. IF DISTURBED AREAS ARE WITHIN 75 FEET OF A WETLAND OR WATERBODY, STABILIZE DISTURBANCE WITHIN 48 HOURS OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
- 17. FINE MATERIAL PLACED OR EXPOSED DURING THE WORK SHALL BE HANDLED AND TREATED AS TO MINIMIZE THE POSSIBILITY OF IT REACHING ANY SURFACE WATERS. USE DIVERSION CHANNELS, DIKES, SEDIMENT TRAPS, OR ANY OTHER EFFECTIVE AND APPROVED CONTROL MEASURES.
- 18. PROVIDE SILT STOPS WHEREVER EROSION CONTROL MEASURES MAY NOT BE TOTALLY CAPABLE OF CONTROLLING EROSION, SUCH AS IN DRAINAGE CHANNELS AND WHERE STEEP SLOPES MAY EXIST.
- 19. BEFORE WATER IS ALLOWED TO FLOW IN ANY DITCH, SWALE, OR CHANNEL, INSTALL THE PERMANENT EROSION CONTROL MEASURES IN THE WATERWAY SO THAT THE WATERWAY WILL BE SAFE AGAINST EROSION.
- 20. TAKE SPECIAL PRECAUTIONS IN THE USE OF CONSTRUCTION EQUIPMENT TO MINIMIZE EROSION. DO NOT LEAVE WHEEL TRACKS WHERE EROSION MIGHT BEGIN.
- 21. MULCHING SHALL FOLLOW THE SEEDING OPERATION BY NOT MORE THAN 24 HOURS.
- 22. SHOULD ANY PROTECTIVE MEASURES EMPLOYED INDICATE ANY DEFICIENCIES OR EROSION TAKING PLACE, IMMEDIATELY PROVIDE ADDITIONAL MATERIALS OR EMPLOY DIFFERENT TECHNIQUES TO CORRECT THE SITUATION AND TO PREVENT SUBSEQUENT EROSION.
- 23. DISTURBANCE WITHIN 30 FEET OF ANY PROTECTED NATURAL RESOURCE WILL REQUIRE DOUBLING THE PERIMETER EROSION CONTROLS AND DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS.

24. CONTINUE EROSION CONTROL MEASURES UNTIL THE PERMANENT MEASURES HAVE BEEN SUFFICIENTLY ESTABLISHED AND ARE CAPABLE OF C EROSION ON THEIR OWN. 25. REMOVE ALL TEMPORARY CONTROL MEASURES WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. 26. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS. ALL WORK SHALL COMPLY WITH THE REQUIREM IN THE BEST MANAGEMENT PRACTICES OF MAINE AS PREPARED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. 27. AREAS CONTAINING EXPOSED SOILS MUST BE STABILIZED WITHIN 7 DAYS OF CESSATION OF AN ACTIVITY. 28. BEGIN PERMANENT STABILIZATION WITHIN 7 DAYS OF OBTAINING FINAL GRADE. 29. WINTERIZATION SCHEDULE ALL STONE LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH. ALL STONE COVERED SLOPES SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH. ALL DISTURBED SLOPES HAVING A SLOPE LESS THAN 15% TO BE SEEDED AND MULCHED BY SEPTEMBER 15TH. ALL VEGETATED SLOPE GREATER THAN 15% TO BE SEED AND MULCHED BY SEPTEMBER 1ST. ALL VEGETATED DITCHES AND CHANNELS TO BE SEEDED AND MULCHED BY SEPTEMBER 1ST. 30. SITE WINTERIZATION IF THE SEPTEMBER 1ST DEADLINE CANNOT BE MET FOR VEGETATED SLOPES, THEN BY OCTOBER 1ST THE SLOPE SHALL BE SEEDED WITH V RATE OF 3 POUNDS PER 1000 SQUARE FEET AND COVERED WITH EROSION CONTROL MATS OR ANCHORED MULCH. IF RYE FAILS TO GROW 3 NOVEMBER 1ST THE SLOPE SHALL BE COVERED WITH AN EROSION CONTROL MIX OR COVERED WITH STONE RIPRAP. IF THE SEPTEMBER 1ST DEADLINE CANNOT BE MET FOR GRASSED LINED DITCHES, THEN A SOD OR STONE LINING SHALL BE INSTALLED. IF THE SEPTEMBER 15TH DEADLINE CANNOT BE MET FOR DISTURBED AREAS WITH A SLOPE LESS THAN 15%, THEN BY NOVEMBER 15TH MULO RATE OF 150 POUNDS PER 1000 SQUARE FEET SUCH THAT NO SOIL IS VISIBLE THROUGH MULCH. 31. WINTER CONSTRUCTION WINTER CONSTRUCTION IS CONSTRUCTION ACTIVITY PERFORMED BETWEEN NOVEMBER 1ST AND APRIL 15TH. IF AN AREA IS NOT STABILIZED IN ACCORDANCE WITH THE ABOVE SCHEDULE OR PERMANENTLY STABILIZED THAN ADDITIONAL STABILIZATIO MUST BE EMPLOYED. PERMANENT STABILIZATION CONSISTS OF AT LEAST 90% VEGETATION, PAVEMENT, GRAVEL BASE OR RIPRAP. APPLY HAY MULCH AT 150 POUNDS PER 1000 SQUARE FEET SUCH THAT NO SOIL IS VISIBLE THROUGH MULCH. USE MULCH AND NETTING OR AN EROSION CONTROL BLANKET OR MIX ON ALL SLOPES GRATER THAT 8 PERCENT. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3 PERCENT. • WINTER EXCAVATION AND EARTH WORK SHALL NOT EXPOSE MORE THAN 1 ACRE OF THE SITE WITHOUT STABILIZATION AT ANY ONE TIME. IN AN AREA WITHIN 75 FEET OF A NATURAL PROTECTED RESOURCE, DOUBLE ROW SEDIMENT BARRIERS SHALL BE INSTALLED. • TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKING D WITHIN 75 FEET OF A NATURAL PROTECTED RESOURCE. • AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE MULCHED THE SAME DAY. NO MULCH SHALL BE SPREAD OVER SNOW. SNOW SHALL BE REMOVED WITHIN ONE QUARTER INCH PRIOR TO MULCHING. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE BEING APPLIED. INSPECT WEEKLY AND AFTER EACH STORM TO CHECK FOR EROSION AND REPAIR IMMEDIATELY. IN SPRING, REMOVE ANY EXCESS MULCH, SEED AND MONITOR FOR EROSION AND PLANT GROWTH. 32. EXCAVATION DE-WATERING: EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFERDAMS, PONDS, WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND H AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SE LIKE A COFFERDAM SEDIMENTATION BASIN OR DIRTBAG GEOTEXTILE SEDIMENT FILTER. AVOID ALLOWING THE WATER TO FLOW OVER DISTURB SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE MAINE DEP. NOTE: DEWATERING CONTROLS ARE DISCUSSED IN THE "MAINI SEDIMENT CONTROL BMPS, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION." 33. A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL OR WHERE THE EXCAVATION MY INTER GROUNDWATER TABLE DURING CONSTRUCTION. PRIOR TO ANY DEWATERING ACTIVITIES SUBMIT A DEWATERING PLAN TO OWNER AND ENGINE 34. FUGITIVE SEDIMENT AND DUST: ACTION MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR F EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OC ROADS SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE PER WEEK OR MORE FREQUENTLY AS NEED ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST. 35. IN LIEU OF SILT FENCE, EROSION CONTROL MIX CAN BE USED IF THE FOLLOWING CONDITIONS ARE MET. FOLLOW GUIDELINE IN THE MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE, 2014 • THE EROSION CONTROL MIX BERM SHOULD BE MINIMUM OF 12" HIGH AND A MINIMUM OF 2' WIDE. ON STEEPER SLOPES, THE BERM WILL NEE AND HIGHER. BERMS COMPOSED OF EROSION CONTROL MIX CAN BE SHAPED WHEN NECESSARY. • THE EROSION CONTROL MIX MUST BE WELL-GRADED WITH AN ORGANIC COMPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PROL ROCKS LARGER THAN 4" OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS). IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE SHOULD NOT BE REMOVED BEFORE GRINDING. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLI CHIPS, GROUND CONSTRUCTION DEBRIS OR PROCESSES WOOD PRODUCTS). 36. SEEDING: COMPLETE SEEDING WITHIN 7 DAYS OF FINAL GRADING. BROADCAST SEED OVER ENTIRE DITCH AND SURFACE AND RAKE INTO SOIL. APPLY HAY MULCH TO ALL SEEDED AREAS. SUMMER SEEDING DATES ARE FROM APRIL 1 TO SEPTEMBER 15 PERMANENT SEEDING SHOULD BE DONE 45 DAYS BEFORE A KILLING FROST. NORTHEAST SOLAR POLLINATOR 3' MIX. BY ERNST SEEDS OR APPROVED EQUAL SEEDING RATE: SEED AT 40 LB/ACRE WITH 30 LBS/ACRE OF A COVER CROP. FOR A COVER CROP USE EITHER GRAIN OATS (1 JAN TO 31 JUL) OR GRAIN RYE (1 AUG TO 31DEC). MIX COMPOSITION: 94.9% FESTUCA OVINA. (SHEEP FESCUE) 2.5% ASCLEPIAS TUBEROSA (BUTTERFLY MILKWEED) 2.0% CHAMAECRISTA FASCICULATA, PA ECOTYPE (PARTRIDGE PEA, PA ECOTYPE) 0.3% OENOTHERA FRUTICOSA VAR. FRUTICOSA (SUNDROPS) 0.3% TRADESCANTIA VIRGINIANA, SOUTHEASTERN PA/NORTHERN VA BLEND (VIRGINIA SPIDERWORT, SOUTHEASTERN PA/NORTHERN VA 37. MULCHING: APPLY TEMPORARY MULCH ON DISTURBED AREAS WITHIN 7 DAYS OF INITIAL DISTURBANCE OR PRIOR TO ANY STORM. • DO NOT APPLY EROSION CONTROL MIX OR HAY MULCH IN CONCENTRATED WATER FLOWS. • DO NOT USE EROSION CONTROL MIX OR HAY MULCH FOR SLOPES STEEP THAN 2:1. USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDED AREAS. • APPLY AT A RATE OF TWO SQUARE BALES (70-90 POUNDS) PER 1,000 SQUARE FEET.

#-COVER SHEETiGENERAL NOTES & INDEXC-1SITE PLAN EXISTING CONDITIONC-2PROPOSED CONDITIONS SITEC-3PRE-DEVELOPMENT STORMWC-4POST DEVELOPMENT STORMWC-5PIPE LINE ROAD AND VIOLA AVC-6MAINTENANCE ACCESS DRIVED-1DETAILS

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- 16. For Solar Array racking system see plans provided by RBI Solar & TerraSmart.
- 14. Nearest fire hydrant: Corner of Viola and Rt. 302 approximately 1,800 feet from project gate.
- 15. All Utilities shall be installed below grade from New Pole #3.
- 13. Land Use Zone: Residential Limited (RL)
- Impervious Area: 0.34 Acres (14,944 Sf)
- Lease Area: 40.03 Acres Project Area: 19.96 Acres
- 12. Project Area Information:
- 11. All disturbed areas to be seeded with native pollinator friendly seed mix.
- equals 12,501 SF

- closed per Title 38§490. 10. Forested wetland disturbance equals 2,408 SF. Non-Jurisdictional wetland disturbance
- property line. Portions of project area is an active gravel pit Maine DEP ID# 397. Those portions are to be
- All Transformers and Inverters shall maintain a minimum separation of 30 feet from the
- Solar Panel layout provided by RBI Solar, Cincinnati, OH.
- The wetland delineations were conducted by Albert Frick Associates, Inc. on December 16, 2020
- evidence Contours for the project area were obtained from the State of Maine Office of GIS.
- The Windham \ Raymond town line was determined by Plisga and Day and based on local
- Project boundary survey and abutters completed by Plisga & Day Land Surveyors.
- Documents referenced on this plan are recorded in the Cumberland County Registry of Deeds unless otherwise noted
- NAD83(2011).

Lands of

Jonathan Brown

21010/96

Tax Map 55 - Lot 52

New Pole #3 By Sebago Solar

New Pole #2 By CMP

Point of Interconnect

43.880519N, 70.461840W

(Primary Metering Cluster)

(Air Break Switch)

CMP Pole # $5\frac{1}{2}$

(With Ground Overrated Air Switch)

Lands of Patricia Starbirg

32627/80

Tax Map 55/// 40t 53

Lands of

Michael S. Schanz

21084/96

Tax Map 5 - Lot 27A

Boulder Bend Access Drive

See Plan & Profile Sh. C-5

ands of

25575/340

hryn S Weeks

Map 55 - Lot 28

Notes Project is referenced horizontally to the Maine State Coordinate System, West Zone



Hubble Outdoor Light: TRP1-12L-15-3K7-2-1-BL-SCP-F

See Note 5

15' Setback Sebago Heights Common Area

or Approved Equal

Lands of

EQUIPMENT PAD 1 2,500 kVA Transformer 10 kVA Aux. Transformer 75 kVA Grounding Transformer PV Switch Board 3800A, 3 Ph, 4 W, 600V/346V Pad Mount Switch Gear 15kV, 600A **Protective Relays** Hubble Outdoor Light: TRP1-12L-15-3K7-2-1-BL-SCP-F or Approved Equal

Proiect Sian[,]

Lands of -

Ashley A. & Dana L. Kenney

35494/299

Lands o

Reece Teixaira

34583/82

Tax Map 5 - Lot 27E

Access and Utility Easement

30' S**é**tback

Totals Percent of Linear Portion of Project Treated: 77.9% Percent of Remaining Impervious Treated: 100% Percent of Developed Area Treated: 83.2%

Description

Access Road

Equipment Pad 1 Foot Print (40' x 45')

Equipment Pad 2 Foot Print (40' x 45')











DO NOT USE FOR CONSTRUCTION

EROSION CONTROL MIX BERM DETAIL SCALE: NTS

WOOD PRODUCTS).

4"Ø LINE POST -

TERMINAL

12" CLEARANCE -

8'-0"

4'-0"

POST

6'-0"

TYPICAL FENCE DETAIL

SCALE: NTS

-

THE MIX MUST BE WELL-GRADED WITH AN ORGANIC COMPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND THAT IS COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PRODUCT WITH NO LARGER ROCKS (>4") OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS). IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE ROOT BALL AND SHOULD NOT BE REMOVED BEFORE GRINDING. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE MATERIAL (BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED

EROSION CONTROL MIX BERM: THE ECM BERM SHOULD BE A MINIMUM OF 12" HIGH AND A MINIMUM OF TWO FEET WIDE. ON LONGER OR STEEPER SLOPES, THE BERM WILL NEED TO BE WIDER AND HIGHER. BERMS COMPOSED OF ECM CAN BE RESHAPED WHEN NECESSARY. EROSION CONTROL MIX:

NOT TO SCALE

FOLLOW MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES 2016.

NOTE: IN LIEU OF SILT FENCE EROSION CONTROL MIX CAN BE USED IF CONDITIONS BELOW ARE MET:

SIGN TO READ: "CAUTION: SOLAR POWER FACILITY NO TRESPASSING" 4' ABOVE GRADE

- 3 STRAND BARBED WIRE

2" MESH, 18 GAUGE GALV.

³/₈" TRUSS ROD W/ TURN BUCKLE

CORNER/END POST ≥ O.D. OF LINE POST

BRACE RAIL

- GRADE

NOTE:

Phone: (207) 947-0019 Toll-Free: 1-800-734-0019

DRAWING FILE: 20011.dwg

www.WeMapIt.com

Survey Standard:

This plan was prepared from information obtained by a survey conforming substantially to the requirements of Technical Standards contained in Chapter 90, Part 2, of the Rules of the Board of Licensure for Professional Land Surveyors, effective April 1, 2001. Monuments not set.

Edan T. Robins

Adam N. Robinson, Maine Licensed Professional Land Surveyor No. 2361

Survey Plan

property of **R. N. Willey & Sons Excavating, Inc.** Cumberland County Registry of Deeds Volume 19376, Page 234 Volume 15765, Page 154 Pipeline Road - Windham, Maine

MAP COMPILED FROM:

*TOWN OF WINDHAM TAX MAP *CONCEPTUAL DESIGN PLAN BY ACHERON ENGINEERING SERVICES *AERIAL PHOTOGRAPH FROM THE MAINE OFFICE OF GIS *2' TOPOGRAPHIC CONTOURS FROM THE MAINE OFFICE OF GIS *ON SITE LOCATIONS UTILIZING TRIMBLE GEO7X HANDHELD UNIT

TERRAGLIDE RACKING ENGINEERING PLANS TERRASMART - SEBAGO SOLAR, LLC 2X12 - TERRAGLIDE PORTRAIT - 30° RACK

DESIGN CRITERIA ASCE = 7-10 WIND SPEED = 121 MPH WIND LOAD BUILDING CATEGORY - I	GROUND SCREW KRINNER G SERIES GROUND SCREW SOUTH SCREW - 76mm X 2100mm	PROJECT SPECIFICATIONS: TILT ANGLE - 25 [.] RACK SIZE - 2X12	DRAWN BY TMC - ENG. APPROVED BY MF -	CHECKED BY XX - PROJ. ENG. APPROVED BY XX -	Т	ERRASMART
WIND LOAD EXPOSURE CATEGORY = C GROUND SNOW LOAD, $Pa = 30$ PSE	MODULE DIMENSIONS	MODULE ORIENTATION - PORTRAIT	MFG. APPROVED BY SS -		PROJECT NAME SEBAGO SOLAR	SHEET SIZE
FLAT ROOF SNOW LOAD, Pf = 18.144 PSF SEISMIC SITE CLASS = D	EAST/ WEST EDGE - 40.31 (1024mm)	TERRASMART, LLC 14590 GLOBAL PARKWAY	PROJECT NUMBER 19-XXXX	CLIENT Sebago Solar, LLC	MODULE TBD	REV SHEET NUMBER
SEISMIC SITE CE (SS = D SEISMIC Ss = 0.17 SEISMIC S1 = 0.061	EAST/ WEST BOLT SPACING - 38.74 (984mm) THICKNESS - 1.57 (40mm)	m) FORT MYERS, FL 33913 m) P 239.362.0211 F 239.676.1900 WWW.TERRASMART.COM	PROPRIETARY, CONFIDENTIAL ANY REPRODUCTI	AND TRADE SECRET INFORMATION CONTAINED TO IN PART OR AS A WHOLE WITHOUT WRITTEN	N THIS DRAWING IS THE SOLE PR PERMISSION OF TERRASMART IS	COPERTY OF TERRASMART. PROHIBITED.

- I. PERMITTING, CONSTRUCTION, AND ERECTION NOTES
- AS IT WAS SUPPLIED BY CLIENT. PLEASE REFER TO STRUCTURAL CALCULATIONS FOR FRAME AND FOUNDATION DESIGN.
- 4. STRUCTURAL STEEL SHALL BE ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- 5. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 6. CROSS BRACING TO BE FIT ON SITE, PER INSTALLATION MANUAL.
- 8. BOLTS TO BE TIGHTENED PER THE PROCEDURES DESCRIBED IN THE INSTALLATION MANUAL.
- 9. THIS STRUCTURAL DRAWING DOES NOT INCLUDE INFORMATION REGARDING ELECTRICAL CONNECTIONS, INCLUDING GROUNDING. REFER TO INSTALLATION MANUAL AND ELECTRICAL PLANS PREPARED BY OTHERS. SHADOWS.
- MAINTAIN AN UNOBSTRUCTED FRONT EDGE. ADVERSE EFFECTS OF SNOW BANKING, INCLUDING SHADING OR OTHER STRUCTURAL CONSIDERATIONS ARE BEYOND TERRASMART'S SCOPE. 12. MINIMUM AND TYPICAL FRONT EDGE CLEARANCE SHOWN ON SIDE ELEVATION. MAXIMUM FRONT EDGE CLEARANCE DETERMINED PER FIELD CONDITIONS. 13. SOUTHERN EDGES OF MODULES SHALL BE ALIGNED WITHIN 2" HORIZONTALLY OF THE SOUTHERN EDGE OF MODULES OF THE ADJACENT RACK. 14. EASTERN AND WESTERN EDGES OF MODULES SHALL BE ALIGNED WITHIN 2" VERTICALLY AND HORIZONTALLY OF THE SOUTHERN EDGE OF MODULES OF THE ADJACENT RACK. 15. TILT ANGLE TOLERANCE: ± 2° FROM ANGLE SHOWN ON SIDE ELEVATION.
- 17. AZIMUTH TOLERANCE: ± 2° FROM APPROVED CIVIL ENGINEERING PLANS.
- 19. PANEL SPACING TOLERANCE: +/-1/4" FROM SPACING DIMENSION AS SHOWN ON SIDE ELEVATION AND REAR ELEVATION. WITH THE MODULE THAT THE CLIENT WILL PROVIDE.
- **II. SITE PREPARATION**
- 1. PRIOR TO COMMENCING WORK AND FOR THE DURATION OF THE PROJECT, GENERAL CONTRACTOR SHALL ENSURE THE SITE IS PREPARED AND MAINTAINED AS FOLLOWS (TO AVOID CHANGE ORDERS): A. ALL REQUIRED PERMITS SHALL BE OBTAINED AND CURRENT.

 - C. ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND OPERATIONAL.
 - D. GRASS SHALL BE MOWED WITH BLADES NO HIGHER THAN 3" TALL.
- F. LOOSE SURFACE IMPEDIMENTS, INCLUDING ROCKS, COBBLES, BOULDERS, CONSTRUCTION DEBRIS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED. G. SITE SHALL BE SAFE FOR OPERATING MACHINERY AND FOR PERSONNEL ON FOOT. SITE CONDITIONS SHALL NOT BE AN ENCUMBRANCE TO THE PERFORMANCE OF WORK. DRILLING AND/OR GROUND SCREW INSTALLATION.
- EXCAVATION AND PROPOSED GROUND SCREW LOCATION SHOULD BE 24" OR GREATER.
- 4. IMPORTED GRANULAR FILL MATERIAL SHALL BE USED FOR EARTHWORK UNLESS ON-SITE SOILS MEET THE FOLLOWING REQUIREMENTS: A. FREE OF PARTICLES LARGER THAN 2" IN DIAMETER, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIALS; AND B. CAN BE PROPERLY MOISTURE CONDITIONED.
- 5. GRANULAR ON-SITE SOILS OR IMPORTED GRANULAR MATERIAL MAY BE USED AS FILL AS LONG AS THEY MEET THE FOLLOWING REOUIREMENTS: A. WELL GRADED BETWEEN COARSE AND FINE SIZES;
 - B. CONTAINING NO CLAY BALLS, ROOTS, ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS;
 - C. MAXIMUM PARTICLE SIZE OF 2", WITH LESS THAN 12% PASSING THE U.S. NO. 200 SIEVE; AND
- D. IMPORTED FILL MATERIALS SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE. WILL VARY DEPENDING ON THE MATERIAL AND COMPACTION EQUIPMENT USED, BUT SHALL NOT BE GREATER THAN 12" AND SHOULD BE CONSISTENT THROUGHOUT THE DEPTH OF THE COMPACTED SOIL. 7. TERRASMART REQUIRES THAT FILL COMPACTION BE TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY DURING THE PLACEMENT AND COMPACTION OF FILL TO VALIDATE THE WORK. 8. ROCK DRILLING SHALL BE PERFORMED IF REQUIRED BY PRESENCE OF UNDERGROUND ROCK. PILOT HOLE DIAMETER SHALL BE DETERMINED BY ONSITE TESTING AND APPROVED BY TERRASMART. **III. FOUNDATION NOTES**
- 1. GROUND SCREW FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS BY A CERTIFIED INSTALLER TRAINED ON THIS TECHNOLOGY.
- 2. GROUND SCREW FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED, NATURAL SOIL, UNLESS OTHERWISE NOTED AND PROPERLY PREPARED AS DESCRIBED IN SECTION II. SITE PREPARATION.
- 3. FOUNDATION INSTALLATION SUB-CONTRACTOR SHALL DETERMINE DIAMETER AND DEPTH OF PRE-DRILLED PILOT HOLE AS REQUIRED BY SITE CONDITIONS.
- 5. THE USE OF WATER AS LUBRICANT IS ALLOWED.
- 6. TOLERANCES IN THE POSTION OF EACH SCREW ARE ± 2" LATERALLY (NORTH-SOUTH AND EAST-WEST) AND ± 3" VERTICALLY (UP-DOWN) WITH A TYPICAL 76.7" EMBEDMENT, AS MEASURED FROM GRADE. 7. MINIMUM REQUIRED TORQUE FOR GROUND SCREW INSTALLATION: 2000 N-m.
- 8. AT THIS TIME NO GROUND SCREW TESTING DATA IS AVAILABLE. GROUND SCREW FOUNDATIONS HAVE BEEN DESIGNED BASED ON EXTENSIVE TESTING IN MEDIUM/ DENSE SOILS.
- 9. GROUND SCREW FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE PROJECT GEOTECHNICAL REPORT PROVIDED BY THE CLIENT (CLA ENGINEERS, INC., REPORT NUMBER 17-6202, DATED 04/04/2019).

UI FE# FEN.0023131	

1. FRAME AND FOUNDATION CONFORMS TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE BASED UPON DESIGN CRITERIA AS OUTLINED ON THE COVER SHEET. TERRASMART MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE DESIGN CRITERIA

2. THE STRUCTURAL INTEGRITY OF THE TERRAGLIDE RACK DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK. 3. FOUNDATION INSTALLATION SUB-CONTRACTOR SHALL COORDINATE WITH THE ENGINEER IF ANY UNFORESEEN CONFLICTS ARISE, SUCH AS EXISTING UNDULATION THAT COULD POTENTIALLY CAUSE RACKING INSTALLATION ISSUES.

7. COLD GALVANIZING COMPOUND SHALL BE USED PER MANUFACTURER'S DIRECTIONS AND IN ACCORDANCE WITH ASTM-A780 IN AREAS WHERE GALVANIZATION WAS REMOVED DURING TRANSPORTATION, OR ERECTION/INSTALLATION.

10. SHADING ANALYSIS WAS NOT PERFORMED BY TERRASMART AND WAS NOT CONSIDERED IN THE LAYOUT OF THE FOUNDATION. TERRASMART RECOMMENDS CONSULTING A SOLAR SHADING EXPERT PRIOR TO INSTALLATION TO AVOID POWER REDUCTION DUE TO 11. SNOW BANKING ANALYSIS WAS NOT PERFORMED BY TERRASMART AND WAS NOT CONSIDERED IN THE STRUCTURAL DESIGN. THE FRONT EDGE CLEARANCE WAS SUPPLIED BY CLIENT AND IT IS ASSUMED THAT THE SYSTEM OWNER WILL REMOVE SNOW AS NEEDED TO

16. RACK SPACING TOLERANCE: 6" TYPICAL, 4" MINIMUM, AS MEASURED BETWEEN THE CLOSEST MODULES EDGE BETWEEN ADJACENT RACKS. REFER TO CIVIL ENGINEERING PLANS FOR MORE INFORMATION AND FURTHER DETAIL.

18. TERRAGLIDE RACKING IS DESIGNED TO ACCOMMODATE A MAXIMUM EAST/WEST SLOPE OF 22%, A MAXIMUM NORTH FACING SLOPE OF 30%, AND A MAXIMUM SOUTH FACING SLOPE OF 18%. THESE SLOPES WERE PROVIDED BY THE CLIENT. 20. FOR MODULE MOUNTING HARDWARE, TERRASMART PROVIDES STAINLESS STEEL HEX BOLT WITH INTEGRATED FLANGE NUT. THE CLIENT IS RESPONSIBLE TO CONFIRM THAT TERRASMART'S MODULE MOUNTING HARDWARE IS COMPATIBLE

B. LOCATE ALL UNDERGROUND UTILITIES AND ENSURE THAT THE PROPOSED INSTALLATION DOES NOT CONFLICT WITH ANY EXISTING INFRASTRUCTURE. MARKINGS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.

E. ALL VEGETATION, INCLUDING TREES AND SHRUBS SHALL BE CLEARED AND ROOT SYSTEMS GRUBBED. ALL ORGANIC MATTER SHALL BE STRIPPED AND REMOVED FROM THE BUILDING ENVELOPE BEFORE EARTH WORK OCCURS, IF ANY.

H. GROUND WATER, INCLUDING WATER TABLE AND PERCHED WATER, SHALL NOT ENCROACH BETWEEN THE GROUND SURFACE AND THE EMBEDMENT DEPTH OF THE GROUND SCREW. DEWATERING IS REQUIRED IF GROUND WATER IS ENCOUNTERED DURING PILOT HOLE

I. SITE SHALL BE GRADED TO PROVIDE CONTROLLED POSITIVE DRAINAGE AWAY FROM FOUNDATIONS. STANDING WATER AND/OR WATER WITH SUFFICIENT VELOCITY TO ERODE SOIL IS NOT ALLOWED WITHIN 20 FEET OF THE FOUNDATION. J. NO FINISHED GRADE SOIL SHALL BE DISTURBED WITHIN 24" OF THE PROPOSED OR INSTALLED LOCATION OF A GROUND SCREW. SEE ADDITIONAL REQUIREMENTS FOR TRENCHES AND OTHER EXCAVATIONS IN SECTION II.3. 2. ALL EARTHWORK SHALL BE NOTED ON THE PLANS AND PROPERLY AS-BUILTED. CUT AREAS SHALL BE PROOF ROLLED AFTER REMOVAL OF SOIL. FILL AREAS SHALL BE STRIPPED OF ALL VEGETATION AND PROOF ROLLED PRIOR TO PLACING FILL MATERIAL. 3. TRENCHES AND OTHER EXCAVATIONS MAY BE CUT EITHER BEFORE OR AFTER GROUND SCREW INSTALLATION PROVIDED THEY MEET THE REQUIREMENTS OF II.1, II.5. IF THEY ARE CUT AFTER GROUND SCREW INSTALLATION, THE HORIZONTAL DISTANCE BETWEEN THE GROUND SCREW AND THE EDGE OF THE EXCAVATION MUST BE GREATER THAN OR EQUAL TO THE VERTICAL DEPTH OF THE EXCAVATION (1:1 RATIO), PLUS 24". 2. IF THEY ARE CUT BEFORE GROUND SCREW INSTALLATION, THE HORIZONTAL DISTANCE BETWEEN

6. FILL SOILS SHALL BE COMPACTED AT MOISTURE CONTENTS THAT ARE NEAR OPTIMUM. THE OPTIMUM MOISTURE CONTENT VARIES WITH THE SOIL GRADATION AND SHALL BE EVALUATED DURING CONSTRUCTION. FILL MATERIAL THAT IS NOT NEAR OPTIMUM MOISTURE CONTENT SHALL BE MOISTURE CONDITIONED. FILL MATERIAL SHALL BE PLACED IN UNIFORM, HORIZONTAL LIFTS, AND BE COMPACTED WITH APPROPRIATE EQUIPMENT TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY PER ASTM D1557. THE MAXIMUM LIFT THICKNESS

4. SHOULD UNFORESEEN LOOSE SOIL CONDITIONS BE ENCOUNTERED ONSITE, CONCRETE OR OTHER ADDITIVES MAY BE USED TO STABILIZE THE SOIL AT CLIENTS EXPENSE. SHOULD UNDERGROUND WATER BE ENCOUNTERED, THE CLIENT SHALL REMEDIATE THE ISSUE.

v-1.8

<u>GROUND SCREW</u> KRINNER G SERIES GROUND SCREW	PROJECT SPECIFICATIONS:	DRAWN BY TMC -	CHECKED BY XX -				
SOUTH SCREW - 76mm X 2100mm	TILT ANGLE - 25	ENG. APPROVED BY	PROJ. ENG. APPROVED BY		TERRASM	ART.	
NORTH SCREW - 76mm X 2100mm	RACK SIZE - 2X12	MF -	XX -				
MODULE DIMENSIONS	MODULE ORIENTATION - PORTRAIT	MFG. APPROVED BY		PROJECT NAME		SHEET SIZE	
NORTH/ SOUTH EDGE - 79.69 (2024mm)		SS -		SEBAGO SOLAR		D	
EAST/ WEST EDGE - 40.31 (1024mm)	TERRASMART, LLC	PROJECT NUMBER	CLIENT	MODULE	REV	SHEET NUMBE	R
NORTH/ SOUTH BOLT SPACING - 56.06 (1424mm)	14590 GLOBAL PARKWAY	19-XXXX	Sebago Solar	TBD	0	2 OF 6	
EAST/ WEST BOLT SPACING - 38.74 (984mm)	FORT MYERS, FL 33913 P 239 362 0211 E 239 676 1900	PROPRIETARY, CONFIDENTIAL AND TR	ADE SECRET INFORMATION CONTAINED IN THIS	DRAWING IS THE SOLE PROPERT	Y OF TERRASMART.		
THICKNESS - 1.57 (40mm)	WWW.TERRASMART.COM	ANY REPRODUCTION IN PART OR AS A	WHOLE WITHOUT WRITTEN PERMISSION OF TEL	RRASMART IS PROHIBITED.			

FLATTENED LAYOUT SCALE 1/16

GROUND SCREW		DRAWN BY	CHECKED BY			
KRINNER G SERIES GROUND SCREW	PROJECT SPECIFICATIONS:	TMC -	XX -			
SOUTH SCREW - 76mm X 2100mm	TILT ANGLE - 25	ENG. APPROVED BY	PROJ. ENG. APPROVED BY		RRASM	ART.
NORTH SCREW - 76mm X 2100mm	RACK SIZE - 2X12	MF -	XX -			
MODULE DIMENSIONS	MODULE ORIENTATION - PORTRAIT	MFG. APPROVED BY		PROJECT NAME		SHEET SIZE
NORTH/ SOUTH EDGE - 79.69 (2024mm)		SS -		SEBAGO SOLAR		D
EAST/ WEST EDGE - 40.31 (1024mm)	TERRASMART, LLC	PROJECT NUMBER	CLIENT	MODULE	REV	SHEET NUMBER
NORTH/ SOUTH BOLT SPACING - 56.06 (1424mm)	14590 GLOBAL PARKWAY	19-XXXX	Sebago Solar	TBD	0	3 OF 6
EAST/ WEST BOLT SPACING - 38.74 (984mm) THICKNESS - 1.57 (40mm)	P 239.362.0211 F 239.676.1900 WWW.TERRASMART.COM	PROPRIETARY, CONFIDENTIAL AND T ANY REPRODUCTION IN PART OR AS	RADE SECRET INFORMATION CONTAINED IN THIS I A WHOLE WITHOUT WRITTEN PERMISSION OF TER	DRAWING IS THE SOLE PROPERTY OF TE RASMART IS PROHIBITED.	RRASMART.	

	<u>GROUND SCREW</u> KRINNER G SERIES GROUND SCREW SOUTH SCREW - 76mm X 2100mm NORTH SCREW - 76mm X 2100mm <u>MODULE DIMENSIONS</u> NORTH/ SOUTH EDGE - 79.69 (2024mm)	PROJECT SPECIFICATIONS: TILT ANGLE - 25 RACK SIZE - 2X12 MODULE ORIENTATION - PORTRAIT	DRAWN BY TMC - ENG. APPROVED BY MF - MFG. APPROVED BY SS -	CHECKED BY XX - PROJ. ENG. APPROVED BY XX -	PROJECT NAME SEBAGO SOLAR	TERRAS	MART SHEET S D	¢ JIZE
IS WITHIN THE TOLERANCES PROVIDED.	EAST/ WEST EDGE - 40.31 (1024mm) NORTH/ SOUTH BOLT SPACING - 56.06 (1424mm)	TERRASMART, LLC 14590 GLOBAL PARKWAY FORT MYERS, FL 33913	PROJECT NUMBER 19-XXXX	CLIENT Sebago Solar	MODULE TBD	R	ev sheet nu 0 4 OF	MBER 6
	EAST/ WEST BOLT SPACING - 38.74 (984mm) THICKNESS - 1.57 (40mm)	P 239.362.0211 F 239.676.1900 WWW.TERRASMART.COM	PROPRIETARY, CONFIDENTIAL AND TRADE SECRET INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TERRASMART. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF TERRASMART IS PROHIBITED.					


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NORTH /SOUTH BEAM - RAFTER - LENGTH = 142.75 in
EAST/ WEST BEAM - C-BEAM 6.5x3.5x0.1017 - LENGTH = 489.70 in
NORTH LEG - MECH2.375 x 9GA. - LENGTH = 119.00 in
SOUTH LEG - MECH2.375 x 9GA. - LENGTH = 59.00 in
DIAGONAL EXTERNAL LATERAL BRACE - MECH2.360 x 13GA. - LENGTH = 23.00 in
HORIZONTAL EXTERNAL LATERAL BRACE - MECH2.360 x 13GA. - LENGTH = 22.00 in
DIAGONAL INTERNAL LATERAL BRACE - MECH2.000x12GA.- LENGTH = 70 in
HORIZONTAL INTERNAL LATERAL BRACE - MECH2.000x12GA.- LENGTH = 65 in
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6. APPROVED BY	PROJ. ENG. APPROVED BY		TERRA	SIM.	ART.
-	XX -				
G. APPROVED BY	/ED BY PROJECT NAME		SHEET SIZE		
-	SEBAGO SOLAR			D	
IMBER	CLIENT			REV	SHEET NUMBER
KX	Sebago Solar	TBD		0	5 OF 6
IFIDENTIAL AND TRADE SECRET INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TERRASMART.					

SOUTH FACING SLOPE SCALE 1/16

NOTES: 1. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITHIN THE TOLERANCES PROVIDED. 2. LEGS SHALL BE INSTALLED PLUMB, IF MECHANICALLY POSSIBLE. MAXIMUM 3° OUT OF PLUMB. 3. LATERAL BRACES ARE DESIGNED TO ALLOW FOR 7" OF TOTAL ADJUSTMENT. IF FIELD CONDITIONS REQUIRE ADDITIONAL ADJUSTMENT AND LATERAL BRACES ARE TOO LONG, THEY MAY BE CUT DOWN AND DRILLED TO FIT BY THE RACK INSTALLER. IF THEY ARE TOO SHORT, NEW LATERAL BRACES MAY BE ORDERED TO FIT AT THE PURCHASER'S EXPENSE. 4. FOR SOUTH FACING SLOPES, THE DIAGONAL AND HORIZONTAL LATERAL BRACES CAN BE SWITCHED TO PROVIDE ADDITIONAL ADJUSTABILITY. 5. ON NORTH FACING SLOPES LEGS CAN BE FULLY EXTENDED TO MEET MINIMUM FRONT EDGE REQUIREMENTS. ALL LEGS REQUIRE A MINIMUM OF 1 INCH EMBEDMENT BELOW GRADE. FULL EXTENSION OF LEGS MAY RESULT IN LATERAL BRACES NOT FITTING. IF ZEYN B. UZMAN CT PE# PEN.0023151 THEY ARE TOO SHORT, NEW LATERAL BRACES MAY BE ORDERED TO FIT AT THE PURCHASER'S EXPENSE.

GROUND SCREW KRINNER G SERIES GROUND SCREW SOUTH SCREW - 76mm X 2100mm NORTH SCREW - 76mm X 2100mm MODULE DIMENSIONS NORTH/ SOUTH EDGE - 79.69 (2024mm) EAST/ WEST EDGE - 40.31 (1024mm) NORTH/ SOUTH BOLT SPACING - 56.06 (1424mm) EAST/ WEST BOLT SPACING - 38.74 (984mm) THICKNESS - 1.57 (40mm)

<u>PROJECT SPECIFICATIONS:</u> TILT ANGLE - 25 [.] RACK SIZE - 2X12 IODULE ORIENTATION - PORTRAIT	TMC - ENG. AI MF - MFG. AI SS -
TERRASMART, LLC 14590 GLOBAL PARKWAY	PROJECT NUMB 19-XXXX
P 239.362.0211 F 239.676.1900 WWW.TERRASMART.COM	PROPRIETARY, CONF

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GLIDE - TGP Fixed-Tilt Ground Mount

OVERVIEW

GLIDE Portrait (TGP) is TerraSmart's next generation fixed-tilt ground mount racking solution. TGP is the culmination of ten years and over 3 gigawatts of installed-capacity experience in engineering, manufacturing and construction. As a result, GLIDE is currently the most economical racking system in TerraSmart's fixed-tilt ground mount racking portfolio. Leveraging the benefits of TerraSmart's widely deployed proprietary ground screw foundation, TGP is designed to work in any soil condition.

TerraSmart's state-of-the-art surveying, rock drilling and installation equipment removes project risks and provides post-installation documentation for increased project bankability. All of these benefits improve upon TerraSmart's industry-leading construction efficiency and raise the bar by offering customers increased install efficiency, reduced labor hours and tenders significant savings in material costs.

START SMART. BUILD SMART.

SPECS

Specifications Member Material	ASTM AIOII Cold Rolled Steel, Hot Dip Galvanized to ASTM A653 (G90 min) ASTM A 500 Hollow Structural Steel, Hot Dip Galvanized to ASTM A123 (3.0 mils min)
Hardware Material	316 Stainless Steel for Module Mounting Hardware Carbon Steel Alloy, Magni Coated to ASTM F2833 for all Structural Hardware
Foundation Options	Ground Screw Portrait
Module Orientation	Portrait
Module Mounting	Bottom Mount Integrated Electrical Bonding
Tilt Angle	5 to 40 degrees
Wire Management	Incorporated in Structure - NEC Compliant
Configuration	Portrait: Up to 2 high x up to 12 wide
Slopes	East or West facing, up to 30%, north or south facing, up to 36%
Load Capacities	Project Specific; Up to 170 MPH wind speed and 100 PSF Ground Snow Load
Certifications	UL 2703, Edition 1; CPP Wind Tunnel Tested
Warranty	20 - year limited warranty

FAST

- Exponentially Less Hardware
- Integrated Electrical Bonding
- Included Wire Managment

COMPLIANT

- UL 2703, Edition 1 Listed
- NEC Compliant
- Wind Tunnel Tested

VERSATILE

- Numerous Configurations
- Adapts to Steep Slopes
- Accommodates Arduous Soils

LIGHT

- Lighter / Stiffer Components
- Less Freight Costs