PCO-3-22 1 **SUB A** 2 THE CITY OF WARWICK 3 STATE OF RHODE ISLAND 4 5 APPENDIX A 6 **ZONING** 7 8 No..... *Date.....* 9 10 Approved......Mayor 11 12 AN ORDINANCE AMENDING APPENDIX A, ZONING ORDINANCE OF THE CITY 13 OF WARWICK TO DEFINE, ESTABLISH AND CLASSIFY DISTRICTS, CREATE 14 ADMINISTRATIVE PROCEDURES FOR SOLAR ENERGY SYSTEMS ON 15 CONTAMINATED SITES, AND PROVIDE SUPPLEMENTARY REGULATIONS 16 FOR THE INSTALLATION OF SOLAR ENERGY SYSTEMS 17 CITY OF WARWICK, PETITIONER 18 19 20 *Be it ordained by the City of Warwick:* 21 22 Section I. Appendix A, Zoning Section 200 of the Ordinances of the City of Warwick is hereby 23 amended by adding thereto the following: 24 25 26 Accessory use solar energy system, roof or ground-mounted. A solar energy system that is structurally mounted to, structurally ballasted, or integrated into the design of the 27 roof or any other architectural aspect of a building or structure. 28 29 Contaminated site. A property (1) that has been identified by the Rhode Island 30 Department of Environmental Management (RIDEM) as having reviewed and approved a 31 solar energy system atop property containing hazardous material contamination; (2) on 32 which remediation activities were conducted to the satisfaction of RIDEM as documented 33 within a "Letter of Compliance" or an "Interim Letter of Compliance," and (3) for which 34 RIDEM has required the use of the property to be restricted through an Environmental 35 Land Use Restriction. 36 37 Large Scale Solar Energy System. Any solar energy system that is not either (1) an 38 accessory solar energy system or (2) a contaminated site solar energy system as defined by 39 this ordinance. 40 41 Old growth forest. A forest that is over 1 acre in size where the oldest trees in that 42 forest have attained a minimum age of 100 years old. 43 44 Old growth tree. Any native tree that has attained a minimum age of 100 years old. 45

Solar energy system. The equipment and requisite hardware and structures that provide and are used for collecting, transferring, converting, storing or using incident solar energy for water heating, space heating, cooling, generating electricity, and off-loading said electricity to the grid, or other applications that would otherwise require the use of a conventional source of energy such as petroleum products, natural gas, manufactured gas, or electricity produced form a nonrenewable resource. This shall include photovoltaic arrays and installations that utilize ground-mounted systems. A solar energy system, when the principal use of a parcel, shall be deemed to be a manufacturing use.

<u>Solar energy system, accessory.</u> A solar energy system that is incidental and subordinate to the principal use(s) of the parcel or development including the following:

- (a) Roof or building-mounted energy-generating panels;
- (b) Solar canopies and ground-mounted arrays.

Solar energy system, canopy. A solar energy system that has a support structure secured to the ground through the use of structural footings and is restricted to paved areas such as parking lots.

Section II. Appendix A, Zoning Section 302, Table 1 of the City of Warwick Code of Ordinances is hereby amended as follows, with numbered parenthesis representing the insertion of a footnote in section 302:

Zoning	OS	A-	A-	A-	A-7	O	WB	GB	LI	GI	Inter	Gateway	Village
Districts		40	15	10							modal	-	District
608. Electric	No	No	No	No	No	No	No	No	No	<u>\$</u>	No	No	No
Power Plant						Yes		Yes	Yes	Yes			
Accessory use													
solar canopy													
<u>612.</u>	No	No	No	No	No	No	No	No	<u>S</u>	<u>S</u>	No	No	No
Contaminated									<u>(28)</u>	<u>(28)</u>			
Site solar													
energy													
system,													
ground-													
mounted													
<u>613.</u>	<u>No</u>	<u>Yes</u>	<u>Yes</u>	Yes	<u>Yes</u>	<u>Yes</u>							
Accessory use													
<u>rooftop or</u>													
ground-													
mounted solar													
<u>energy</u>													
systems													
614. Large	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	No	<u>No</u>
scale solar													
energy system													

Footnotes: 1 2 (28) Subject to all applicable review procedure and performance standards 3 4 outlined in Section 509. 5 6 Section III. Appendix A, Zoning Section 500 of the City of Warwick Code of Ordinances is 7 8 hereby amended by adding thereto the following: 9 509. - Administrative procedures for solar energy systems on contaminated sites. 10 11 Purpose and Applicability. The purpose of this section is to regulate the installation of solar 12 energy systems by providing standards for the placement, design, construction, operation 13 monitoring modification and removal of such systems. These standards are intended to 14 ensure that solar energy systems are compatible with the surrounding area, provide for 15 public safety, and minimize impacts on scenic, natural, and historic resources. The 16 Provision of this section shall apply, as specified herein, to construction, operation, and/or 17 repair of solar energy system installation in the City. 18 19 20 Large scale solar energy systems (which refers to systems that are not either (1) an Accessory solar system or (2) a contaminated site solar system as defined by this 21 ordinance) shall be prohibited throughout the City of Warwick. 22 23 509.1 Review procedures. Contaminated sites (i.e. brownfield sites) subject to solar energy 24 systems shall require Planning Board review in accordance with Major Land Development 25 review provisions. 26 Any system located in a historic overlay district in view of a public ROW as determined 27 by the Building Official, must obtain a Certificate of Appropriateness in accordance with 28 Section 311. 29 30 509.2 Performance standards. These standards shall be required in addition to the Major 31 Land Development review procedures set forth by RIGL 45-23 and the City's Subdivision 32 and Land Development Regulations. The standards set forth herein will ensure that solar 33 energy systems are compatible with the surrounding area, provide for public safety, and 34 minimize impacts on wildlife; scenic, natural and historic resources, and abutting 35 36 properties. 37 (A) The applicant is required to provide verification from a RI licensed landscape architect 38 at the preliminary stage of review that the landscape buffer is adequate to thoroughly 39 screen the solar energy facility year round. In addition, the required vegetated 40 41 buffer/screening shall be maintained for the life of the solar energy facility. The property owner and/or facility owner shall be required to replant any section of the 42 buffer/screening found not to meet the requirements of this section as determined by 43 the Zoning Enforcement Officer with consultation from the City Planner. 44

45

in Table 2 A & B, entitled Dimensional Regulations. The Planning Board shall reserve 2 the right to increase setbacks to minimize visibility of the system as a result of 3 information learned through public hearings. 4 5 (C) The maximum height of a ground-mounted solar energy system shall be 10 feet. 6 7 (D) To prevent glare on adjacent properties and mitigate public safety potential, only matte 8 finish, and non-reflective panels shall be utilized. 9 10 (E) The applicant shall submit an independent, pre-development noise study for which a 11 baseline shall be established indicating general background noise in perimeter areas 12 adjacent to neighbors averaged over several weeks. A post startup noise study shall be 13 executed to ensure no increase in noise occurs from the facility. Noise mitigation must 14 be employed for solar energy systems responsible for an increased decibel level of 3dB. 15 16 (F) Accessibility for emergency service vehicles is required along with clearly-marked 17 procedures for shutting down the solar energy system. 18 19 20 (G) A public safety preparedness and response plan detailing the standards, procedures, and communication protocol to be utilized for the system and in the event of an emergency 21 shall be provided to the City's emergency management agency director, as well as 22 documentation indicating that the plan has been distributed to the fire department. 23 24 (H) Contaminated sites shall be remediated and properly capped in accordance with State 25 or Federal remediation standards as part of the development. 26 27 (I) Unless required by ELUR, no substantial clearing or grading of the proposed project 28 site shall have occurred five (5) years prior to submission of the application for an SES 29 based on a review of aerial photography provided by the applicant. 30 31 (J) Clearcutting outside of the immediate array area is prohibited unless required by 32 33 remediation permit. A reforestation plan prepared by a certified forester (CF) or registered landscape architect shall be required to minimize view shed nuisance from 34 the perspective of abutters. 35 36 (1) A combination of natural vegetation, berms, fencing, walls, and other similar 37 features shall be used to visually buffer the system(s) from the view of abutting 38

(B) All solar energy systems shall, at minimum, employ the zoning setback requirements

1

39

40 41

42

43 44 45

46

(3) <u>Buffer plantings shall be maintained for the life of the project by the owner, applicant, and or operator of the facility.</u>

(2) No chemicals, solvents, herbicides, or insecticides, excluding water, will be used

in the operation and maintenance of the site landscaping requirements, (such as

properties, as well as mitigate noise, glare, or other potential nuisances.

pollinator cover and buffer plantings).

1	
2	(4) A 1 to 1 tree replacement effort shall occur within the City for all trees requiring
3	removal that are of 20 inches in diameter or larger. All newly-planted trees shall
4	be a minimum of 3 inch caliper at breast height.
5	
6	(5) Soil erosion and sediment control systems shall be maintained at all times in
7	accordance with RIDEM wetlands permit(s), and local regulations.
8	(6) Clearing, cutting, girdling, and any other form of disturbance to an old growth tree
9	or old growth forest is prohibited.
10 11	of old growth forest is promotied.
12	(K) Neither blasting nor removal of ledge by mechanical means is allowed.
13	(ix) ivertifier brasting not removal of ledge by mechanical means is anowed.
14	(L) Pollinator mix is required, shall be supported by a maintenance plan, and contain annual
15	reports supplied by the applicant's landscape architect until the pollinator mix approved
16	by RIDEM is established. Disturbed topsoil shall remain onsite unless removal is
17	required by remediation permit(s).
18	
19	(M) Utility connections shall be underground, equipment screened from view with
20	plantings or fencing, and approved by the utility company as part of the Final Plan
21	Application.
22	
23	(1) Interconnection agreement shall be compliant with Code of Ordinance Section 74-
24	52, Renewable energy system tax exemption, and submitted with the Final Plan
25	Application.
26	
27	(2) A comprehensive development pro forma including but not limited to land cost
28	(lease or purchase, equipment cost, construction, decommission cost etc., shall be
29	submitted with Final Plan application.
30	
31	(N) Perimeter fencing shall be raised a minimum of 8 inches for wildlife passage and be
32	comprised of black coated chain link fence.
33	
34	(O) A sign shall be posted at the entry of the SES displaying the name of the owner and
35	operator of the system and a twenty-four (24) hour emergency contact number.
36	(D) CCC
37	(P) SES systems shall provide for motion detect lighting in maintenance areas and dark sky
38	compliant lighting elsewhere.
39	(Q) Applicant shall provide a decommissioning plan and cost estimate with the Preliminary
40	Application, and surety funds provided with the Final Plan Application to ensure
41	· · · · · · · · · · · · · · · · · · ·
12	adequate removal at the end of useful life or abandonment.
43 44	(1) Funds deposited shall be equal in amount to removal of the system, as verified by
4 4 4 5	the City's peer review engineer, inclusive of 2% annual inflation over life of the
ıJ	the City's peer review engineer, inclusive of 2/0 annual inflation over the of the

system with funds deposited into an interest bearing escrow account under City control. (2) The calculation of the decommissioning reserve shall be predicated upon the assumption that 100% of the retired solar panels will be recycled by an accredited solar panel waste recycler, without any credit on the financial guarantee amount for anticipated salvage value or reuse of and project components. City peer review engineers shall afford the City the right to evaluate the inflation rate every 5 years. (3) A separate surety of an amount equal to the cost of repairing 100% of the pollinator mix, as established by the City's peer review engineer during Preliminary Application review, shall be submitted with the Final Plan Application. (4) Within one week after permanent shutdown, the owner, applicant, and or operator shall notify the Building Official and remove the system within 6 months of said notification. The City shall utilize escrow funds to remove all or remaining system components beyond six months, with owner, applicant, and or operator liable for all expenses beyond escrow, should escrow be exceeded. City shall retain the right to fine the owner in accordance with local ordinances.

(R) Maintenance. The contaminated site solar energy system shall be maintained by the solar energy owner and/or operator and shall be cleared of debris, weeds, trash, etc. Maintenance shall include, but not be limited to, painting, structural repairs, maintenance of the landscape buffers, care and replanting if necessary, of any vegetative screening, cleaning clearing and repairing of stormwater and drainage infrastructure, and integrity of security measures.

(S) Enforcement. The Building/zoning Official and City engineering consultant a have the power to inspect any solar energy system at any time to ensure compliance with the provisions of this Ordinance. Any entity who fails or refuses to adhere to all of the provisions of this Ordinance or any other conditions imposed by the City, State of Rhode Island or Federal government, shall be deemed to be in violation and liable to the City of Warwick for penalties not to exceed \$500 per day for each violation. Each day of existence of a violation shall be deemed a separate offense.

 (T) Inspection. The City's Engineer or designee shall inspect any contaminated site solar energy system at the expense of the applicant on a weekly basis during construction, and during the month of April each year after completion of construction. Said inspection will include a review of any and all reports as required by the State of Rhode Island, the City of Warwick and the Federal Government. The applicant and any successor shall reimburse the City for any cost incurred as specified in the Stormwater Facility Maintenance Agreement.

Section IV. Appendix A, Zoning Section 600 of the City of Warwick Code of Ordinances is hereby amended as follows:

1	Subject to the following stipulations:
2	
3	1. None.
4	
5	Section V. The Clerk of the Zoning Board of Review is hereby authorized and directed to cause
6	said changes to be made on the Zoning Map and the Record Book of Lot Classifications.
7	
8	Section VI. This Ordinance shall take effect upon passage and publication as prescribed by law.
9	Upon this ordinance taking legal effect, the moratorium issued pursuant to O-21-23 (PCO-34-21)
10	shall be terminated.
11	
12	
13	SPONSORED BY: COUNCIL PRESIDENT MCALLISTER
14	ON BEHALF OF MAYOR PICOZZI
15	
16	COMMITTEE: ORDINANCE