

NOTICE OF MEETING

Pursuant to the provisions of Chapter 30A, Sections 18-25 of the General Laws, as amended, notice is hereby given that a meeting of the following board, committee, or commission will be held on the date and time specified below. Said meeting will be open to the public and press and will be recorded.

BOARD/COMMITTEE: Planning Board – Regular Meeting & PUBLIC HEARING - Continued

DATE: April 16, 2019

тіме: 6:30 р.т.

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LOCATION: Town Hall – 2nd Floor Auditorium 109 Front Street Winchendon MA 01475

Agenda

1. Call to Order

Pledge of Allegiance

- 2. Announcements
- 3. Public Comment
- 4. New Business:
 - A. 6:35 pm PUBLIC HEARING CONTINUED Site plan application for a 3.135 MW DC Ground-Mount Solar Development on property located at 185 Baldwinville Rd., (Map 13 Parcel 04).
 - B. 6:45 pm PUBLIC HEARING West Street 1 Solar (east side of West Street) –-Application for Amendment – Request to add a battery storage system on property shown on Map 2 Parcel 109. PAGE 16
 - C. 6:50 pm PUBLIC HEARING West Street 2 Solar (west side of West Street) –-Application for Amendment – Request to add a battery storage system on property shown on Map 1 Parcel 99.
 - D. **Consider Request for Extension** of time to complete the proposed project at 504 School Street for Gagnon Equipment and Parts. PAGE 70
- 5. Meeting Updates NONE
- 6. Minutes Review & Approval
 - a. March 5th 2019
 - b. December 18, 2018
- 7. Registry of Deeds requested Planning Board membership update (signatures req'd)
- 8. Correspondence
- 9. Adjourn

Notice- The above topics do not prohibit additional last-minute or unforeseen matters.



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Planning Board

109 Front Street Winchendon, Massachusetts 01475-1758

Notice is hereby given that the Winchendon Planning Board will consider the site plan application for a 3.135 MW DC Ground-Mount Solar Development submitted by Sunpin Solar Development, LLC 3 Corporate Park, suite 168 Irvine CA on property located at 185 Baldwinville Rd., Winchendon, MA 01475 identified as Winchendon Assessors Map 13 Parcel 04 owned by Kevin A. Doyle of PO Box 113 Winchendon MA 01475 at their regularly scheduled meeting on **Tuesday, February 5, 2019 at 6:35pm** in the Town Hall Aud., 2nd Fl., 109 Front St., Winchendon, MA 01475. Said property is located in the R80 – Rural Residential zone. A copy of the application is available at the Dept. of P&D, Winchendon Town Hall. All interested persons should plan to attend.

BY: Guy C. Corbosiero, Chair Winchendon Planning Board

Jan 22 & Jan 29

This project is awaiting completion of the Conservation Commission review process.

An opening and continuation of the public hearing is anticipated to be the action for 4/16/19.



Planning Board

Telephone (978) 297-0685 Facsimile (976) 297-1616

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	109 Front St		
Winch	rendon, Massachus	sens 01475-1750	
Appl	ication for Site I	Plan Approval	
Fee paid: Town of Wincheng	lon \$ <u>1.02.5</u>	Bardner News chendon-Couriers_TBD	2000 W
Pursuant to the provisions of Massachu Delinquent Taxpayers, Section 2 L 1: 'A enterprise who has neglected or refuse charge.' Certification must be obtain Board. The Town Treasurer has up I hereby certify that no debt is of period of time greater than two	setts General Law Chapter 40, So ny Board shall deny the applic d to pay any local taxes, fees, ass ed from the Town Treasurer o to ten (10) days to complete cer owed to the Town by the op enve (12) months.	ection 57, the Town Bylaw, Licenses and P. ation for any person, corporation, or bus ressments, betterments, or any other munic a this form before it is submitted to the I diffection. oplicant or the owner of record for 1 - 3 - 1.9	ermits of iness ipal "lonning a
Kelly Hora	1 Tall	Date	
PB# <u>2019-0103</u> APPLICANT name Sur	> Rec'd by Planni	ng Board <u>1/3/19</u> tw	<u>La</u> .
Address 3 Corporate Pa	ark, Suite 168; Irvine,	CA Tel. # (201) 774-799	6
LANDOWNER name	Cevin A. Doyle	Tal #	· · · · · ·
Address P.O. Box 113	tor D. Hutavilla D.	I el. #	
LOCATION OF LAND	185 Baldwinville Ru	Jau	
TITLE OF PLAN	3.135 MW DC G or Solar PV Develo	pment	—. —.
under Article 3.2 of the Schedule of U Deed to the property, as Book 47372	se Regulations of the Town of W recorded in the Worce Page 168	inchendon ester District Registry of Dec and is shown on	ds
Accessors Map 13	Parcel 04	Zoning R80	
Lataira 51,182 acres			
The undersigned hereby rec Winchendon Zoning Bylav application and site plan is	Juest approval of a site pl ys and further certify that true.	an under Section 5.2 of the t all information provided in this $\nabla = \int_{-\infty}^{\infty} O(t) dt$	
OWNER signature	ANA UN	in the second se	
APPLICANT signature	Mansel Kamberg	yv	5. A.

Original of this application must be submitted to the Town Clerk.

W-1157-055 January 28, 2019

Tracy Murphy, Director of Development Town of Winchendon 109 Front Street Winchendon, MA 01475

Re: Sunpin Baldwinville Road Solar Project - Peer Review

Dear Tracy and Members of the Planning Board:

Tighe & Bond has been retained by the Town of Winchendon to provide Peer Review Services to the Planning Board in their review of the Site Plan Review and Low Impact Design Permit Applications for the construction of a 3.135 MW photovoltaic solar array (the Project). The Project is located on an approximately 51.182-acre parcel of land located at 185 Baldwinville Road in the Town of Winchendon, Massachusetts. The property is located within the Rural Residential (R-80) zoning district, according to the latest Zoning Map, dated November 2, 2009. The Applicant, Sunpin Solar Development, LLC, has provided the following documents for review:

ighe& Bond

Engineers | Environmental Specialists

- Site Plan Review Application prepared by AMEC Massachusetts, Inc. dated December 17, 2018
- Site Plans entitled "Sunpin Solar Development, LLC 3.135 MW DC Ground-Mount Solar PV Development", prepared by AMEC Massachusetts, Inc. dated December 17, 2018
- Application for Low Impact Development Permit prepared by AMEC Massachusetts, Inc. dated November 2018

According to the application, there are no known MHC or NHESP characteristics on the property. An area of 500-year flooding is located in the southwestern part of the site, outside the area proposed for development. State-regulated wetland resources are located on site and are avoided in the site plan. The application also states that the only listed species potentially present at the project site is threatened Northern long-eared bat (NLEB) (Myotis septentrionalis), which is listed statewide.

The documents were reviewed for compliance with general engineering practices, Winchendon Zoning Bylaw, Low Impact Development (LID) Bylaw, Site Plan Design Guidelines of Massachusetts, and the Massachusetts Stormwater Management Standards. We offer the following comments for the Board's consideration:

- 1. The following requirements under Section 3.3.3 Form and Contents of Site Plan of the Site Plan Regulations were not included on the Site Plans:
 - a. The layout plans are not shown at a scale of 1" equals 40'. However, the scale of the sheets is sufficiently large enough to show the information required. No action by the Applicant is recommended.
 - b. A Utility, Grading, and Drainage Plan has not been provided. The layout plans show all proposed electric utilities, no other utilities are required for the project. The Applicant should confirm there is no proposed grading. The Board should determine if a landscape buffer on the subject property is required to protect traffic and abutters from visibility impacts.

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- c. Provisions for maintenance of the access drive are not provided in the Operation & Maintenance plans. Regular observation and maintenance should occur to maintain the roadway surface in a passable condition.
- d. The Winchendon Fire Department should be consulted to opine on emergency vehicle accessibility throughout the project area.
- e. The fire department should be consulted to determine if redundant access is required as the subject parcel is large.
- 2. The following requirements under Section 3.3.4 Supplemental Plan Information Required and Section 3.3.5 Impact Statement of the Site Plan Regulations of the Site Plan Regulations were not included in the Project Narrative:
 - a. The volume of earth to be removed, if applicable, or a statement indicating that "no earth is to be removed" was not provided. The Applicant should provide calculations for determining the amount of earth to be removed and/or the amount of fill to be brought to the site. The calculations shall be prepared by a Massachusetts Registered Engineer.
 - b. An estimate of proposed cut and fill volumes were not provided to satisfy the Construction Element section. Additionally, schedules for bringing fill on and off the site and the source(s) of purchased fill were not provided. The Applicant should provide the omitted information to satisfy the requirements of the Site Plan Regulations or indicate that "no earth is to be removed".
 - c. There are no easements, covenants or restrictions identified on the Site Plans. The Applicant should identify any easements, covenants, or restrictions or a statement declaring there are none.
- 3. The following requirements under Section 6.11.6 of the Winchendon Zoning Bylaws (Solar Energy Collection Systems) were not included in the final deliverable:
 - a. There is no certified acoustical assessment provided. The Applicant has requested a variance from this requirement. The Board should determine whether an acoustical assessment is required for this project.
 - b. The operation and maintenance plan references the maintenance of a riprap swale and earthen berms. If such features exist or are proposed, the Applicant should identify them in the site plans and discuss how they will be impacted and/or used under the proposed conditions. If these features are not existing nor proposed, the reference to them should be removed.
- 4. While the current Site Plans do not indicate stormwater management controls, the Board should determine if a Stormwater Inspection and Maintenance Agreement is necessary.
- 5. The project must be designed to meet the intent of the Massachusetts Stormwater Management Standards (Standards) and the Winchendon LID Bylaw. We offer the following comments which pertain to the contents of the Stormwater Management Report and design:
 - a. There is no source listed for the precipitation depths used in the stormwater analysis. As weather patterns have changed since the issuance of standard stormwater hydrologic references, it is recommended the Applicant utilize Atlas 14/NOAA for current precipitation values.
 - b. There is no narrative addressing the Massachusetts Stormwater Standards or Winchendon LID Design Criteria. The Applicant should describe the applicability of and compliance with each of the performance standards.

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- c. The Massachusetts Department of Environmental Protection Checklist for Stormwater Report is not provided. The Applicant should provide the Checklist in their application.
- d. The proposed gravel road is proposed to act also as an infiltration trench. The following items should be considered for this design.
 - i. The woven geotextile proposed beneath the road may not allow for adequate infiltration rates. The Applicant should consider alternative fabric materials for this application.
 - II. The proposed dense-graded crushed stone will not allow for adequate infiltration rates. The Applicant should provide a roadway material allowing infiltration or consider alternative infiltration practices such as a roadside infiltration trench.
- e. The proposed roadway, acting as an infiltration trench, is not listed in the Operation and Maintenance Plan and Long-Term Pollution Prevention Plan. The document should be revised to include language describing how the infiltration capacity will be maintained and repaired in the event of clogging to maintain functionality of the system.
- f. There is no illicit discharge statement provided. A signed illicit discharge statement should be provided to the Board prior to stormwater management system construction.
- g. The hydrologic analysis indicates "woods" as the pre-development condition of the project; however, the Impact Statement indicates the project area is "extensively logged". The pre-development conditions of the site should be confirmed and clarified by the Applicant.
- 6. The following comments pertain to the Site Plans:
 - a. The proposed roadway does not include grading. The existing topography appears to be as steep as 20% in some areas where the road is proposed. The Applicant should confirm this slope is suitable to emergency and maintenance vehicle access or adjust the plans as necessary to provide grading information.
 - b. There is no proposed gate shown for the proposed gravel access road. The Applicant should include the location of the gate on the drawings and a detail for the gate described in the site plan review application narrative.
 - c. There is no detail for the proposed fence. The Applicant should include a detail of the proposed fence. It is recommended to provide 6" clear below the bottom of the fence to promote small wildlife passage.
 - d. The project does not specify a limit of clearing. The Applicant should clarify the limits to which the existing trees and/or stumps will be cleared. Vegetation should be cleared in a manner that does not cause shading of the proposed array. The limit of clearing can be used to inform the Board's decision about the need for vegetative screening.
 - e. The Applicant should confirm the turning radii of the proposed access road are adequate for emergency vehicle access and maintenance access.

We trust this information will be satisfactory for the Board in your review of the Sunpin Baldwinville Road Solar Project Site Plan Review and LID Permit Applications. Please do not hesitate to contact me should you have any questions or need additional information at 413.572.3238 or jechristy@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.

MAMI

Jean E. Christy, P.E. Senior Engineer

\\tighebond.com\data\Data\Projects\W\W1157 Winchendon\Task 055 - Sunpin Solar Baldwinville Peer Review\Sunpin Solar Peer Review Letter 1.docx

Tracy Murphy

From:	Vardakis, Andrew <andrew.vardakis@woodplc.com></andrew.vardakis@woodplc.com>
Sent:	Wednesday, January 09, 2019 1:10 PM
Го:	Tracy Murphy
Cc:	mkamberaj@sunpinsolar.us; Bill Behling; Jamie Boyd
Subject:	RE: 185 Baldwinville Rd
Attachments:	4 - 3652180165 - L-501.pdf

Hi Tracy,

Following up on our phone call today, we are currently finalizing the ANRAD and will work directly with David and the ConCom for that filing.

Regarding the southern buffer you mentioned, on the design review plan the panels originally went right up to the 25foot buffer line (with the fence less than 25' from the property line). As shown on the 12/17 submittal drawing, the perimeter road was added, and panels pushed back to 50' from the property line. See screenshots below:

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Current Dec.	Design					
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I am attaching an example of previous landscape screenings proposed for another project in North Brookfield. As of now there is nothing proposed on the plans submitted in the 12/17 application for this project.

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Feel free to contact us with any other questions. Thanks, Drew

Andrew P. Vardakis, P.E. Senior Engineer Environment & Infrastructure Solutions 271 Mill Road, Chelmsford, MA 01824 Direct: + (978) 392 5341



POLICE DEPT COMMENTS

Tracy Murphy

From: Sent: To: Subject: Tracy Murphy Wednesday, January 23, 2019 8:10 AM Dave Walsh RE: 185 Baldwinville Rd. Solar Array

Good Morning-

Thank you for this input. I will recommend that the Board consider including conditions requiring an "off street" staging area during the construction phase from here on out. The Board can also include language that the applicant is responsible for hiring and paying for details should the need arise. (stronger language will be necessary to outline what constitutes "need arise") I may reach out for input from you on this.

Thanks again, Tracy

From: Dave Walsh Sent: Wednesday, January 23, 2019 7:49 AM To: Tracy Murphy Subject: RE: 185 Baldwinville Rd. Solar Array

Tracy,

I have the normal concerns with access of the perimeter and security. Additionally, I am going to suggest from this point forward that an area be set up off road for the delivery and removal of equipment and material. At the ongoing project on Ash St there have been constant issues with trailer trucks parked in the roadway creating hazards and inexperienced and unqualified workers attempting to direct traffic. I can foresee the same issue on this project. To be consistent I will be recommending the same for all projects in the future. If police details are needed while the off road area is cleared then they should be hired.

David P. Walsh Chief of Police Winchendon Police Department 80 Central Street Winchendon, Ma. 01475 Direct 978-297-5406 Fax 978-297-4945

From: Tracy Murphy Sent: Tuesday, January 22, 2019 1:28 PM To: Al Gallant <agallant@townofwinchendon.com>; Geoff Newton <GNewton@townofwinchendon.com>; David Koonce <dkoonce@townofwinchendon.com>; Jim Abare <jabare@townofwinchendon.com>; Tom Smith <tsmith@townofwinchendon.com>; Dave Walsh <dwalsh@townofwinchendon.com> Cc: Nicole Roberts <NRoberts@townofwinchendon.com> Subject: 185 Baldwinville Rd. Solar Array Importance: High

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DPW Comments

Tracy Murphy

From: Sent: To: Subject: Al Gallant Tuesday, January 22, 2019 1:46 PM Tracy Murphy RE: 185 Baldwinville Rd. Solar Array

Hi Tracy I'm good Al

Albert C. Gallant Public Works Director Town of Winchendon Tel. -- 978-297-0170 Fax -- 978-297-5403



From: Tracy Murphy Sent: Tuesday, January 22, 2019 1:28 PM To: Al Gallant <agallant@townofwinchendon.com>; Geoff Newton <GNewton@townofwinchendon.com>; David Koonce <dkoonce@townofwinchendon.com>; Jim Abare <jabare@townofwinchendon.com>; Tom Smith <tsmith@townofwinchendon.com>; Dave Walsh <dwalsh@townofwinchendon.com> Cc: Nicole Roberts <NRoberts@townofwinchendon.com> Subject: 185 Baldwinville Rd. Solar Array Importance: High

Good Afternoon-

I have attached the proposed site plan for a solar array at 185 Baldwinville Rd. The proposed site plan is on page 3 of the plan set. I'm not sure how many remember, but we had a design review meeting for this proposal several months ago. The Public Hearing on this application is Tuesday February 5, 2019. Please forward any comments, questions or concerns regarding this proposal as soon as possible. If you *have no concerns*, kindly forward a quick email to me stating such as I need to include all departmental comments in the meeting packets.

Thank you, Tracy

Tracy Murphy Director Of Planning and Development Town of Winchendon 978-297-5414

CONSERVATION COMMENTS

Tracy Murphy

From: Sent: To: Subject: David Koonce Wednesday, January 30, 2019 2:52 PM Tracy Murphy; Geoff Newton; Tom Smith RE: 185 Baldwinville Rd. Solar Array

Hi Tracy,

The plans do not show any work in the Conservation Commission's jurisdiction, and the Applicant is filing an ANRAD with the Commission for formal approval of the wetland delineation. Assuming that the project itself does not require approval from the Commission, the Commission would like the Planning Board to require that the 100-foot buffer zone be staked and delineated with erosion control barriers prior to the start of site work in order to deter accidental encroachments into the Commission's jurisdiction.

Thanks, Dave K.

From: Tracy Murphy Sent: Tuesday, January 29, 2019 9:18 AM -To: Geoff Newton; David Koonce; Tom Smith Subject: FW: 185 Baldwinville Rd. Solar Array

Good Morning-

I am forwarding the proposed Site Plan for a solar array at 185 Baldwinville RD again. The Planning Board opens this hearing next Tuesday. I am compiling packets to send out this Thursday and need any comments/concerns you have regarding this proposal as soon as possible to include in the packet. If you have NO concerns please forward an email stating such so that the Planning Board knows that you are aware of the project.

Thank you, Tracy

From: Tracy Murphy Sent: Tuesday, January 22, 2019 1:28 PM To: Al Gallant; Geoff Newton; David Koonce; Jim Abare; Tom Smith; Dave Walsh Cc: Nicole Roberts Subject: 185 Baldwinville Rd. Solar Array Importance: High

Good Afternoon-

I have attached the proposed site plan for a solar array at 185 Baldwinville Rd. The proposed site plan is on page 3 of the plan set. I'm not sure how many remember, but we had a design review meeting for this proposal several months ago. The Public Hearing on this application is Tuesday February 5, 2019. Please forward any comments, questions or concerns regarding this proposal as soon as possible. If you *have no concerns*, kindly forward a quick email to me stating such as I need to include all departmental comments in the meeting packets.

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Thank you, Tracy

FIRE DEPT COMMENTS

Tracy Murphy

From: Sent: To: Subject: Tom Smith Thursday, February 21, 2019 11:42 AM Tracy Murphy Baldwinville Rd Solar Project

Tracy,

These are the requests that I made of the previous solar arrays here in town. So I figured I would keep it consistent.

- A "Knox" box and key access to the entry gate for the department. (Marked with red "K" on the plot plan)
- Provision for a fire department orientation at the site once the project is complete showing the location of the disconnects and other equipment.
- Adequate entry access to the site and around the outer sections of the project for a brush truck. This access
 around the project only needs to be hard packed enough for a brush truck. (It is understood that due to the
 elevations it would not be possible completely around the project. Instead the fire department would be
 comfortable with there being two turnarounds in the area of the "red circles" on the plot plan.)
- Ability to turn an ambulance around within the site.
- Appropriate ongoing maintenance of brush/grass in the proximity of the solar array.
- Accurate contact information throughout the project.

If there is any questions please feel free to contact me.

Tom



CONSCOM UPDATE

Tracy Murphy

From: Sent: To: Subject: David Koonce Wednesday, February 27, 2019 9:55 AM Tracy Murphy RE: Sunpin - Baldwinville Solar

Hi Tracy,

Thanks for the update. The ANRAD is still waiting for the snowcover to diminish enough that the peer review of the wetland delineation can begin. Given that more snow is expected tonight and the cold weather to continue indefinitely, it could be a rather long wait.

Dave K.

From: Tracy Murphy Sent: Wednesday, February 27, 2019 8:50 AM To: David Koonce Subject: Sunpin - Baldwinville Solar

Good Morning Dave-

The Panning Board continued their hearing on the Baldwinville Rd (Sunpin) solar application to March 5. Can you provide me with an update for them regarding Sunpin's application before the CONSCOM?

Thank you, Tracy

Tracy Murphy Director Of Planning and Development Town of Winchendon 978-297-5414

E-mail sent or received via the Town of Winchendon network are subject to disclosure under the Massachusetts Public Records Law (M.G.L. Chapter 66, Section 10) and the Federal Freedom of Information Act.

Planning Board



Telephone (978) 297-5410

109 Front Street Winchendon, Massachusetts 01475-1758

Notice is hereby given that at their regularly scheduled meeting of **Tuesday, April 16, 2019 at 6:45pm** in the Town Hall Aud., 2nd Fl., 109 Front St., Winchendon, MA 01475 the Winchendon Planning Board will consider the application for amendment to the approved site plan for addition of battery storage systems to the approved 1.3 MW DC Ground-Mount Solar Array located on the east (System 1) side of West Street. The application for amendment has been submitted by West Street 1 Solar, LLC of 4 Liberty Square, Boston, MA 02109 for property identified as Winchendon Assessors Map 2 Parcel 109. Said property is located in the R80 – Rural Residential zone within the Golf Residential Overlay. A copy of the application is available at the Dept. of P&D, Winchendon Town Hall. All interested persons should plan to attend.

BY: Guy C. Corbosiero, Chair Winchendon Planning Board

April 2 and 9

APPLICATION FOR AMENDMENT TO APPROVED SITE PLAN

WEST STREET 1 SOLAR

West Street (East Side) Winchendon, Massachusetts

Prepared for:

West Street 1 Solar, LLC 4 Liberty Square Boston MA 02109



BEALS + THOMAS BEALS AND THOMAS, INC. Reservoir Corporate Center 144 Turnpike Road Southborough, MA 01772-2104

Submitted in Compliance with the Winchendon, Massachusetts Zoning Bylaw and the Rules and Regulations for the Review and Approval of Site Plans and Site Development in Winchendon

March 14, 2019

289607PT001

March 14, 2019

Guy Corbosiero, Chairman Winchendon Planning Board c/o Tracy Murphy, Director of Development 109 Front Street Winchendon, Massachusetts

Via:	FedEx and email to <u>TMurphy@townofwinchendon.com</u> and <u>NRoberts@townofwinchendon.com</u>
Reference:	Application for Amendment to Approved Site Plan PB# 2017-0810
	West Street (East Side)
	Winchendon, Massachusetts
	B+T Project No. 2896.07

Dear Chairperson Corbosiero and Members of the Board:

On behalf of the Applicant, West Street 1 Solar, LLC, Beals and Thomas, Inc. respectfully submits this Application for Amendment to the Approved Site Plan for the construction of a solar energy project (the Project) located on the east side of West Street (the Property) in Winchendon, Massachusetts. The proposed amendment is related to the addition of a 0.5 MW battery storage system to the approved Project. This filing is submitted in accordance with the Winchendon, Massachusetts Zoning Bylaw (the Zoning Bylaw) and the Rules and Regulations for the Review and Approval of Site Plans and Site Development in Winchendon, Massachusetts (the Site Plan Regulations).

The Board originally approved the Project, consisting of a 1.3-MW solar array on an approximately 112-acre property in a Formal Site Plan Approval dated October 24, 2017. The Board subsequently issued an Amendment to the Approved Site Plan for the subdivision of the Property in June 2018, as well as a related Approval Not Required plan.

The Applicant currently proposes to add a battery storage system to the Project in an effort to more efficiently provide power to the electric grid. The battery system is capable of delivering 0.5 MW of energy over two hours, which helps to meet peak energy demands later in the day as solar production diminishes. The battery storage system would be housed within a metal enclosure slightly elevated on concrete footings, and will contain a fire detection and suppression system. Please refer to the documentation of the battery storage system components included in Section 2.0 for system dimensions, as well as the revised site plans enclosed in Section 4.0.

Guy Corbosiero, Chairman Winchendon Planning Board March 14, 2019 Page 2

The proposed battery storage system will be located along the west side of the approved equipment pad in the northern portion of the Property, directly adjacent to the array. It will be contained entirely within the previously-approved fenced area, outside of the 100-foot buffer zone to wetland resource areas. The battery storage system will be set back approximately 1,200 linear feet from West Street. Furthermore, approximately 900 linear feet of existing, mature trees are proposed to remain between the battery storage system and West Street, such that aesthetic impacts are not anticipated.

We have evaluated the proposed amendment relative to the approved stormwater management system for the Project. Our findings indicate that there will be no change in post-development runoff rates compared to the approved Project, and accordingly, no revisions to the stormwater management system are required. Please refer to the calculations enclosed in Section 3.0.

In addition to the proposed battery storage system, the Applicant proposes minor adjustment to the array layout, as well as the number and location of the interconnection utility poles along the access road, as depicted on the enclosed revised plans. The locations of these poles as currently depicted were specifically requested by National Grid, which will own and maintain the poles. The closest pole to adjacent wetlands is approximately 30 feet. Clearing beyond the approved tree line in the vicinity of the wetlands is not required to accommodate the adjusted pole locations. The minor adjustments to the pole number and location is not anticipated to increase visibility of the interconnection from West Street. As such, no new aesthetic impacts are anticipated.

As required, enclosed is one copy plus the original of submission package, as well as an electronic copy. The following information is included for your review:

Section 1.0:	Site Plan Review Form
Section 2.0:	Documentation of Major System Components
Section 3.0:	Supplemental Stormwater Management Calculation Summary
Section 4.0:	Plans

Additional submission requirements outlined in the Zoning Bylaw, such as required solar documentation and proof of Property ownership, were included with the original Application for Site Plan Review, and have not changed since the Board's approval.

Pursuant to requirements of the Bylaw, we understand that the Town will request a certified list of abutters, and notify abutters within 300 feet of the subject property, as well as the Planning Boards of abutting other towns via certified mail. We further understand that the Town will place the required legal advertisement(s) in a newspaper of local circulation, and that the Board will bill the Applicant directly for the cost of the legal advertisement and abutter notification. Enclosed is a check payable to the Town in the amount of for the \$550.00 fee as required by the Zoning Bylaw.



Based on the minor nature of the proposed changes, we respectfully request that the Board issue an Amended Site Plan Approval. Should you have any questions regarding this matter or require additional information, please contact us at (508) 366-0560. We thank you for your consideration of this Application for Amendment and look forward to meeting with the Board at the next available public hearing.

Very truly yours,

BEALS AND THOMAS, INC.

Eric J. Las, PE, LEED AP Principal

Enclosures

 cc: David Koonce, Winchendon Conservation Commission (1 copy via Certified Mail) Winchendon Ventures, LLC (1 copy via Certified Mail)
 West Street 1 Solar, LLC (1 copy via U.S. Mail and email to <u>aclapp@nexamp.com</u>)



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NEXAMP, INC.

 Town of Winchendon
 Orig. Amt.
 Amt. Due
 Discount
 Amount

 3/4/2019
 Bill #03082019-Chk 1
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04474 Winchendon West 1 - Amendment to approved si

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4.0	PLANS	4-1



Section 1.0 Site Plan Review Form

Application for Amendment to Approved Site Plan



Telephone (978) 297-3308 Facsimile (978) 297-5411

109 Front Street Winchendon, Massachusetts 01475-1758

Planning Board

Application for Amendment to Approved Site Plan

Town Treasurer Date ************************************	Pee paid: Town of W ************************************	Inchendon \$ 550.00 Advertising Fee \$ ************************************
PB # 2017-0810 Received by Planning Board Property Address West Street Assessors Map 2 Parcel 109 Zoning R80 Lot size 25.37 acres Deed is recorded in Worcester South Registry of Deeds Book 33708 Page 356 Requested Amendment Addition of 0.5 MW battery storage system to approved solar array Applicant Name West Street 1 Solar, LLC Applicant Address 4 Liberty Square, 3rd Floor, Boston, MA Tel. # (617) 431-1440 Jandowner Name Winchendon Ventures LLC, c/o Terry O'Reilly Address PO Box 5522, 1 Atlantic Ave Salisbury, MA 01952 Tel. # The undersigned hereby request approval of a site plan under Article 12 of the Winchendon Koning Bylaws. I further certify that all information provided in this application and coompanying plans and documents is true. PPLICANT signature Supplicant Signature WNER signature (different) Mather Signature (different) WNER signature (different) Mather Signature (different)	Town Treasurer	Date
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copy of this application must be submitted to the Town Clerk	OWNER signature (i copy of this application m	(different) Acelle winchenden Vertures,

NOTICE: A complete application requires additional documents. See Site Plan regulations. Site Plan Amendment Application Revised July 2013 Section 2.0 Documentation of Major System Components

1 MW GSS[®]-MD Systems Description

1. 1 MW GSS[®]-MD Systems Overview

NEC Energy Solution's (NEC ES) Grid Storage Solution (GSS[®]) is a factory assembled, configured-to-order, modular, grid-interconnect AC-ready energy storage system. Each GSS is an integrated solution comprised of the Grid Battery Solution (GBS[®]) energy storage, power conversion options, and the AEROS[®] controls system. NEC Energy's flexible GSS-MD (Multi-Duration) battery technology economically supports a broad range of application use cases, including short-duration power-oriented applications and long-duration energy-oriented applications. The scalability of the GSS platform enables system implementations ranging from <1 MW to over 100 MW, with durations from under 30 minutes to multiple hours.

The paragraphs below describe specific, standardized GSS-MD system implementations configured to deliver 1 MW system rated power for 30 minutes, 1 hour, 2 hours, and 4 hours (i.e. 0.5 MWh, 1 MWh, 2 MWh, and 4 MWh of available energy capacity at a 1 MW discharge rate). These are representative GSS system configurations using standard container sizes and may be adapted to meet any specific project requirements. Please see *the GSS-MD Platform Description* for more information on the capabilities of the GSS platform.

2. GSS®-MD 1 MW Technical Description

Each GSS system described here includes the following components:

- A GBS Grid Battery System, configured to deliver the rated power and energy described in section 3 below, including:
 - o Standard, pre-configured, ISO container(s) (quantity and sizes per section 3 below)
 - Modular battery racks with embedded battery management systems
 - $\circ~$ A local user interface for battery management and AEROS $^{\rm @}$ controls
 - o An auxiliary power panel for safe operation, internal lighting, and convenience outlets
 - o Roof mounted HVAC systems to manage the temperature inside of the GBS® container
 - An integrated fire detection and suppression system
 - o Manual DC isolation switches
- A Power Conversion System that includes:
 - o PCS standard configuration offering 1.6 MVA of nameplate power
 - IP65 rated enclosures
 - Integrated cooling
 - o Manual disconnect
- The AEROS controls systems, providing comprehensive applications, monitoring and controls.
- Standard power meter for monitoring grid conditions and AEROS control
- Grid, auxiliary power, and communications interconnection points:
 - 440V AC terminals in the PCS enclosure
 - o Wired or optical Ethernet connection to AEROS control system located in the GBS container
 - Auxiliary power at each piece of NEC ES supplied equipment
- Standard production testing of all supplied equipment

NEC ES typically includes certain services with each GSS project for NEC ES supplied equipment, including program management, installation supervision, site testing, commissioning and startup, training, and preventative maintenance during the warranty period.

System Confi	0.5MWh (30 min)	1MWh (1 hour)	2MWh (2 hour)	4MWh (4 hour)	Notes (see below)	
		1C20-MD06-B302-1A	1C20-MD11-B302-1A	1C40-MD20-B312-1A	1C53-MD38-B312-14	(,
System Power and	Energy Characteristics					-
Power Capability	System Rating (MW)		1.0	MW		Note 1
	Inverter Rating (MVA)		1.6 N	Note 2		
Energy Capacity	@ System Rated power	0.514	1.047	2.032	4.076	Beginning of Life (BOL)
(MWh)	@ Nominal power	0.647	1.186	2.145	4.076	CP/4 rate, BOL
Duration	@ System Rated power	30	62	121	244	BOL
(minutes)						SOC: 100% to 0%
General Characteri	istics					
GBS [®] Container Qu	uantity and Size	1 x 20'	1 x 20'	1 x 40'	1 x 53'	Note 3
		(6.1m)	(6.1m)	(12.2m)	(16.2m)	
Battery Type			Lithium-le	on, NMC		
Fire Suppression A	gent	NOVEC™ 1230				
PCS Quantity and I	Power Rating	1 x 1.6 MVA				
PCS Characteristics	5	Four quadrant, Bi-directional				
System Performan	се				-	
Max Charge/Disch	arge Rate (MW)	1.0	1.6	1.6	1.6	Note 4
Round Trip Efficier	псу (%)	>85%				Note 5
Usable State of Ch	arge (SOC) (%)	0% - 100%				
Interconnection Pa	ırameters					
Grid Interconnect	Voltage (V)	440 VAC				
	AC Frequency (Hz)		50 or	±5% - Programmable		
Compliance		UL1741-S	A, CSA C22	.2, CA Rule	21, CRE-	Note 6
	3025, IEE	E 1547, IEE	E 519, G59/	'3, BDEW		
Environmental Par	ameters					
Ambient Operating Temperature (°C)		-20°C to 50°C				
Storage Temperature (°C)		-30°C to 50°C			Time limited	
Relative Humidity (%)		0-100%				
Max Altitude (m)		1500				Derating above spec
Seismic Rating		IBC / CBC / IEEE 693			Note 6	

3. GSS®-MD Technical Characteristics: 1 MW System Rated Configurations

Notes:

1) System Rated power refers to the GSS system-level capability to deliver the listed power and energy (duration), as measured at a medium voltage (MV) point of interconnection, including:

a) losses associated with an LV to MV transformer (even if not included in GSS system scope)

b) 0.95 power factor

c) PCS and wiring losses

2) The Inverter Rated power is the nameplate capability of the inverter/PCS (combined real and/or reactive power capability). Peak real power output subject to Maximum Charge/Discharge Rate listed.

3) Standard ISO containers. See separate layout diagrams for actual measurements and footprint

4) Between 0%-100% SOC, and Power Factor of 1.0

5) Round Trip Efficiency (RTE) at beginning of life, measured at LV AC point of interconnection

6) PCS specific compliance certifications dependent on actual PCS selected

4. GSS®-MD Representative Diagrams Overview

The Figure 1 illustrates a representative site layout. All equipment must have a minimum clearance of 1.5 meters (5 feet) for maintenance and service access unless it is noted otherwise. Final site layout can be determined to suit the needs of the project. Note the switch gear and transformers included in the illustrations are not included in the scope of this system description.



Figure 1 – Representative 1 MW GSS® System Layout, 53' Container

Figure 2 below illustrates a representative view of this same layout.





4.1. Electrical System One-Line Diagram

The representative electrical system single line diagram in the figure below shows the electrical configuration of the GBS, power conversion system, cooling system, AEROS controller, and medium voltage equipment and has been color coded to denote scope of supply per the associated legend provided.



Notes:

* AEROS® System Controller is installed into one of the battery containers. Alternately, it can be installed into customer control room ** 480V Switchgear configuration, Step-up Transformer and Feeder topology (radial, loop feed or combination) to be established based on customer requirements and project specifics

*** Auxiliary Power Subsystem topology to be established based on customer requirements and project specifics

Figure 3 - Representative Electrical System Diagram, 1MW GSS® System



5	4		3





Section 3.0 Supplemental Stormwater Management Calculation Summary



JOB NO./LOCATION:
2896.07
Winchendon, MA
CLIENT/PROJECT:
West Street 1 Solar, LLC
West Street 1 Solar Array
SUBJECT/TITLE:
Post-Development Hydrology Design
OBJECTIVE OF CALCULATION:
• To determine the impact on post-development peak flow rates from the site due to the addition of the proposed battery storage system for the 2, 10, & 100-year storm events at the design point.
CALCULATION METHOD(S):
• Runoff curve numbers (CN), time-of-concentration (Tc), and runoff rates were calculated based on TR-55 methodology.
• AutoCAD 2017 computer program was utilized for digitizing ground cover areas.
• Peak runoff rates were computed using HydroCAD version 10.00.
ASSUMPTIONS:
• All assumptions are consistent with previously submitted and approved post-development hydrology design calculation.
• The concrete equipment pad and battery storage system were assumed to be impervious for modeling purposes.
SOURCES OF DATA/EQUATIONS:

• All sources of data and equations are consistent with the post-development calculations approved by the Town of Winchendon Planning Board on 10/31/2017 and Conservation Commission on 10/26/2017.

REV	CALC. BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
0	CHS	08/08/2017	JRM	08/09/2017	JRM	08/09/17
1	JRM	09/05/2017	JRM	09/05/2017	JRM	09/05/2017
2	n Santoncelo	3/14/2019	A. Murphy	3/14/19	E.LAS	3/14/19
			0 0			

NPS/289607CS001



CONCLUSIONS:

• Pre-development conditions as approved by the Town of Winchendon Planning Board and Conservation Commission on 10/31/2017 and 10/26/2017 respectively.

Pre-develor	ment:

Storm Event	Peak Runoff Rates DP-1 (CFS)	
2-Year	22.24	
10-Year	52.01	
100-Year	144.56	

• Post-development conditions with the addition of the proposed battery storage system.

Storm Event	Peak Runoff Rates DP-1 (CFS)	
2-Year	20.53	
10-Year	48.20	
100-Year	134.57	

Post-development:

• Post-development peak runoff rates are less than pre-development rates in accordance with the Mass DEP Stormwater Handbook.

The addition of the proposed battery storage system creates a de minimus change in peak stormwater runoff rates and the previously approved stormwater management system will perform as designed without modification.



REV	CALC. BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
0	CHS	08/08/2017	JRM	08/09/2017	JRM	08/09/17
1	JRM	09/05/2017	JRM	09/05/2017	JRM	09/05/2017
2	n Sontangelo	3/14/2019	A. Muply	3/14/19	E.LAS	3/14/19

NPS/289607CS001


Section 4.0 Plans

Figure 1: Red-line exhibit depicting amendments

Entitled "West Street 1 Solar Array" Prepared by Beals and Thomas, Inc. In 2 Sheets Dated March 14, 2019











W-1157-036-01 April 8, 2019

Tracy Murphy, Director of Development Town of Winchendon 109 Front Street Winchendon, MA 01475

Re: West Street 1 Solar Project – Peer Review Application for Amendment to Approved Site Plan

Dear Tracy and Members of the Planning Board:

Tighe & Bond was previously retained by the Town of Winchendon to provide Peer Review Services to the Planning Board in their review of the Site Plan Review and Low Impact Design Permit Application for the construction of a solar photovoltaic array on the east side of West Street (the Project). The Project is located on an approximately 120-acre property on the east side of West Street in Winchendon, Massachusetts. The property is located within the Rural Residential (R-80) and Golf/Residential Overlay (R-10) zoning district, according to the latest Zoning Map, dated November 2, 2009.

The project was initially presented at the September 19, 2017 Planning Board meeting. Revisions to the Site Plans and Stormwater Management design were made as a result of a third-party review of the wetland resource areas on site. Tighe & Bond issued final findings in a letter to the Board dated October 16, 2017. At that time, it is our understanding the Board approved the project. The Applicant, West Street 1 Solar, LLC, has requested an Amendment to Approved Site Plan through the Board to incorporate a battery energy storage system to help meet peak energy demands throughout the grid system. Battery storage systems are an increasingly common feature of solar energy generation facilities within the region. The inclusion of this system required minor changes to the Site Plans and stormwater management analysis.

The Town of Winchendon provided the Application for Amendment to Approved Site Plan, prepared by Beals and Thomas, Inc., dated March 14, 2019 for our review. The application was reviewed for compliance with general engineering practices, Winchendon Zoning Bylaw, Low Impact Development (LID) Bylaw, Site Plan Design Guidelines of Massachusetts, and the Massachusetts Stormwater Management Standards.

In general, the project has been designed in accordance with the Town's bylaws and requirements, including the Massachusetts Stormwater Standards. We note that the stormwater management approach has not changed from previous application documents. We concur that the inclusion of the battery storage system will not substantially alter stormwater flow patterns throughout the project, or off-site impacts. We note that the battery storage area drains toward the proposed infiltration basin. As such, the stormwater management system continues to comply with the application local and state regulations.

We note that the Site Plans include notation for Critical Stormwater Control Areas to further protect adjacent wetland resource areas. The increased attention to these areas will be important throughout construction. As such, the Board may wish to consider third-party monitoring during construction, specifically to document these areas.



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We trust this information will be satisfactory for the Board in your review of the West Street 1 Solar Project Amendment to Approved Site Plan Application. Please do not hesitate to contact me should you have any questions or need additional information at 413.572.3238 or jechristy@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.

Jan Echisty

Jean E. Christy, P.E. Project Engineer

J:\W\W1157 Winchendon\Task 036 - West Street Solar Project Peer Review\Correspondence\West Street 1 Solar Peer Review 3.docx

TOWN OF WINCHENDON

Planning Board



Telephone (978) 297-5410

109 Front Street Winchendon, Massachusetts 01475-1758

Notice is hereby given that at their regularly scheduled meeting of **Tuesday, April 16, 2019 at 6:50pm** in the Town Hall Aud., 2nd Fl., 109 Front St., Winchendon, MA 01475 the Winchendon Planning Board will consider the application for amendment to the approved site plan for addition of battery storage systems to the approved 1.3 MW DC Ground-Mount Solar Array located on the west (System 2) side of West Street. The application for amendment has been submitted by West Street 1 Solar, LLC of 4 Liberty Square, Boston, MA 02109 for property identified as Winchendon Assessors Map 1 Parcel 99. Said property is located in the R80 – Rural Residential zone within the Golf Residential Overlay. A copy of the application is available at the Dept. of P&D, Winchendon Town Hall. All interested persons should plan to attend.

BY: Guy C. Corbosiero, Chair Winchendon Planning Board

April 2 and 9



APPLICATION FOR AMENDMENT TO APPROVED SITE PLAN

WEST STREET 2 SOLAR

West Street (West Side) Winchendon, Massachusetts

Prepared for:

West Street 2 Solar, LLC 4 Liberty Square Boston MA 02109





BEALS + THOMAS BEALS AND THOMAS, INC. Reservoir Corporate Center 144 Turnpike Road Southborough, MA 01772-2104

Submitted in Compliance with the Winchendon, Massachusetts Zoning Bylaw and the Rules and Regulations for the Review and Approval of Site Plans and Site Development in Winchendon

March 14, 2019

289607PT002

March 14, 2019

Guy Corbosiero, Chairman Winchendon Planning Board c/o Tracy Murphy, Director of Development 109 Front Street Winchendon, Massachusetts

Application for Amendment to Approved Site Plan PB# 2017-0809 West Street 2 Solar West Street (West Side) <u>Winchendon, Massachusetts</u> B+T Project No. 2896.07

Dear Chairperson Corbosiero and Members of the Board:

On behalf of the Applicant, West Street 2 Solar, LLC, Beals and Thomas, Inc. respectfully submits this Application for Amendment to the Approved Site Plan for the construction of a solar energy project (the Project) located on the west side of West Street (the Property) in Winchendon, Massachusetts. The proposed amendment is related to the addition of a 0.5 MW battery storage system to the approved Project. This filing is submitted in accordance with the Winchendon, Massachusetts Zoning Bylaw (the Zoning Bylaw) and the Rules and Regulations for the Review and Approval of Site Plans and Site Development in Winchendon, Massachusetts (the Site Plan Regulations).

The Board originally approved the Project, consisting of a 1.3-MW solar array on an approximately 56-acre property in a Formal Site Plan Approval dated October 24, 2017.

The Applicant currently proposes to add a battery storage system to the Project in an effort to more efficiently provide power to the electric grid. The battery system is capable of delivering 0.5 MW of energy over two hours, which helps to meet peak energy demands later in the day as solar production diminishes. The battery storage system would be housed within a metal enclosure slightly elevated on concrete footings, and will contain a fire detection and suppression system. Please refer to the documentation of the battery storage system components included in Section 2.0 for system dimensions, as well as the revised site plans enclosed in Section 4.0.

Guy Corbosiero, Chairman Winchendon Planning Board March 14, 2019 Page 2

The proposed battery storage system will be located along the east side of the approved equipment pad in the central portion of the Property, directly adjacent to the array. It will be contained entirely within the previously-approved fenced area, outside of the 100-foot buffer zone to wetland resource areas. The battery storage system will be set back approximately 580 linear feet from West Street. The previously-approved screening along the northern and eastern boundaries of the array, consisting of 6- to 7-foot Eastern hemlock, will still provide screening such that additional aesthetic impacts are not anticipated.

We have evaluated the proposed amendment relative to the approved stormwater management system for the Project. Our findings indicate that there will be no change in post-development runoff rates compared to the approved Project, and accordingly, no revisions to the stormwater management system are required. Please refer to the calculations enclosed in Section 3.0.

In addition to the proposed battery storage system, the Applicant proposes minor adjustment to the array layout, as well as the number and location of the interconnection utility poles along the access road, as depicted on the enclosed revised plans. The locations of these poles as currently depicted were specifically requested by National Grid, which will own and maintain the poles. The poles are located no closer to wetland resource areas than their approved locations. The minor adjustments to the pole number and location is not anticipated to increase visibility of the interconnection from West Street. As such, no new aesthetic impacts are anticipated.

As required, enclosed is one copy plus the original of submission package, as well as an electronic copy. The following information is included for your review:

Section 1.0:	Site Plan Review Form
Section 2.0:	Documentation of Major System Components
Section 3.0:	Supplemental Stormwater Management Calculation Summary
Section 4.0:	Plans

Additional submission requirements outlined in the Zoning Bylaw, such as required solar documentation and proof of Property ownership, were included with the original Application for Site Plan Review, and have not changed since the Board's approval.

Pursuant to requirements of the Bylaw, we understand that the Town will request a certified list of abutters, and notify abutters within 300 feet of the subject property, as well as the Planning Boards of abutting other towns via certified mail. We further understand that the Town will place the required legal advertisement(s) in a newspaper of local circulation, and that the Board will bill the Applicant directly for the cost of the legal advertisement and abutter notification. Enclosed is a check payable to the Town in the amount of for the \$550.00 fee as required by the Zoning Bylaw.



Based on the minor nature of the proposed changes, we respectfully request that the Board issue an Amended Site Plan Approval. Should you have any questions regarding this matter or require additional information, please contact us at (508) 366-0560. We thank you for your consideration of this Application for Amendment and look forward to meeting with the Board at the next available public hearing.

Very truly yours,

BEALS AND THOMAS, INC.

Eric J. Las PE, LEED AP Principal

Enclosures

 cc: David Koonce, Winchendon Conservation Commission (1 copy via Certified Mail) Winchendon Ventures, LLC (1 copy via Certified Mail)
 West Street 2 Solar, LLC (1 copy via U.S. Mail and email to <u>aclapp@nexamp.com</u>)



NEXAMP, INC.

Town of Winchendon					6899 3/6/2019	689
Date	Description		Orig. Amt.	Amt. Due	Discount	Amount
3/4/2019	Bill #03082019-Chk 2		550.00	550.00		550.00
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2.0	DOCUMENTATION OF MAJOR SYSTEM COMPONENTS	2-1
3.0	SUPPLEMENTAL STORMWATER MANAGEMENT CALCULATION SUMMARY	3-1
4.0	PLANS	4-1

Section 1.0 Site Plan Review Form

Application for Amendment to Approved Site Plan

TOWN OF WINCHENDON



Telephone (978) 297-3308 Facsimile (978) 297-5411

109 Front Street Winchendon, Massachusetts 01475-1758

Planning Board

Application for Amendment to Approved Site Plan

Definquent Taxpayers, Section enterprise who has neglected of Certification must be obtain Town Treasurer has up to to I hereby certify that no do time greater than twelve	a 21.1: 'Any Board shall deny the application for any person, corporation, or business or refused to pay any local taxes, fees, assessments, betterments, or any other municipal charge.' and from the Town Treasurer on this form before it is submitted to the Planning Board. The in (10) days to complete certification. Webt is owed to the Town by the applicant or the owner of record for a period of (12) months
Town Treasurer	Date
PB # 2017-0809	Received by Planning Roard
Property Address	West Street
Assessors Map 1	Parcel 99 Zoning R80 Lot size 54.9 ac
Deed is record e d in Wo Requested Amendm	ent Addition of 0.5 MW battery storage system to approved
solar array	
Applicant Name V	Vest Street 2 Solar, LLC
Applicant Address 4	Liberty Square, 3rd Floor, Boston, MA Tel. # (617) 431-1440
Landowner Name	Winchendon Ventures LLC, c/o Terry O'Reilly
Address PO Box 5522, 1	Atlantic Ave Salisbury, MA 01952 Tel. #
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PPLICANT signatu	ire alan L. Clagge % What St 2 Sola
wner's signature certifies th	hat owner has no objection to this application. Manager

NOTICE: A complete application requires additional documents. See Site Plan regulations. Site Plan Amendment Application Revised July 2013 Section 2.0 Documentation of Major System Components

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 - o Roof mounted HVAC systems to manage the temperature inside of the GBS® container
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- A Power Conversion System that includes:
 - o PCS standard configuration offering 1.6 MVA of nameplate power
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 - Integrated cooling
 - o Manual disconnect
- The AEROS controls systems, providing comprehensive applications, monitoring and controls.
- Standard power meter for monitoring grid conditions and AEROS control
- Grid, auxiliary power, and communications interconnection points:
 - 440V AC terminals in the PCS enclosure
 - o Wired or optical Ethernet connection to AEROS control system located in the GBS container
 - Auxiliary power at each piece of NEC ES supplied equipment
- Standard production testing of all supplied equipment

NEC ES typically includes certain services with each GSS project for NEC ES supplied equipment, including program management, installation supervision, site testing, commissioning and startup, training, and preventative maintenance during the warranty period.

System Conf	0.5MWh (30 min)	1MWh (1 hour)	2MWh (2 hour)	4MWh (4 hour)	Notes (see below)		
Sustam Dowar and	Enorgy Charactoristics	1C20-MD06-B302-1A	1C20-MD11-B302-1A	1C40-MD20-B312-1A	1C53-MD38-B312-1/	Ą	
System Power und						h	
Power Capability	System Rating (IVIW)		1.01	VIW		Note 1	
	Inverter Rating (MVA)		1.6 N	VVA		Note 2	
Energy Capacity	@ System Rated power	0.514	1.047	2.032	4.076	Beginning of Life (BOL)	
(MWh)	@ Nominal power	0.647	1.186	2.145	4.076	CP/4 rate, BOL	
Duration	@ System Rated power	30	62	121	244	BOL	
(minutes)						SOC: 100% to 0%	
General Character	istics						
GBS [®] Container Qu	uantity and Size	1 x 20'	1 x 20'	1 x 40'	1 x 53'	Note 3	
	•	(6.1m)	(6.1m)	(12.2m)	(16.2m)		
Battery Type			Lithium-Io	on, NMC			
Fire Suppression Agent		NOVEC™ 1230					
PCS Quantity and I	Power Rating	1 x 1.6 MVA					
PCS Characteristics	5	Four quadrant, Bi-directional					
System Performan	се						
Max Charge/Disch	arge Rate (MW)	1.0	1.6	1.6	1.6	Note 4	
Round Trip Efficier	ncy (%)	>85%			Note 5		
Usable State of Ch	arge (SOC) (%)	0% - 100%					
Interconnection Pa	ırameters						
Grid Interconnect	Voltage (V)	440 VAC					
	AC Frequency (Hz)		50 or	60 Hz		±5% - Programmable	
	Compliance	UL1741-S	A, CSA C22	.2, CA Rule	21, CRE-	Note 6	
	3025, IEE	E 1547, IEE	E 519, G59,	'3, BDEW			
Environmental Par	ameters						
Ambient Operating	g Temperature (°C)	-20°C to 50°C					
Storage Temperate	ure (°C)	-30°C to 50°C				Time limited	
Relative Humidity	(%)	0-100%					
Max Altitude (m)			150	00		Derating above spec	
Seismic Rating		IBC / CBC / IEEE 693			Note 6		

3. GSS®-MD Technical Characteristics: 1 MW System Rated Configurations

Notes:

1) System Rated power refers to the GSS system-level capability to deliver the listed power and energy (duration), as measured at a medium voltage (MV) point of interconnection, including:

a) losses associated with an LV to MV transformer (even if not included in GSS system scope)

b) 0.95 power factor

c) PCS and wiring losses

2) The Inverter Rated power is the nameplate capability of the inverter/PCS (combined real and/or reactive power capability). Peak real power output subject to Maximum Charge/Discharge Rate listed.

3) Standard ISO containers. See separate layout diagrams for actual measurements and footprint

4) Between 0%-100% SOC, and Power Factor of 1.0

5) Round Trip Efficiency (RTE) at beginning of life, measured at LV AC point of interconnection

6) PCS specific compliance certifications dependent on actual PCS selected

4. GSS®-MD Representative Diagrams Overview

The Figure 1 illustrates a representative site layout. All equipment must have a minimum clearance of 1.5 meters (5 feet) for maintenance and service access unless it is noted otherwise. Final site layout can be determined to suit the needs of the project. Note the switch gear and transformers included in the illustrations are not included in the scope of this system description.



Figure 1 – Representative 1 MW GSS® System Layout, 53' Container

Figure 2 below illustrates a representative view of this same layout.





4.1. Electrical System One-Line Diagram

The representative electrical system single line diagram in the figure below shows the electrical configuration of the GBS, power conversion system, cooling system, AEROS controller, and medium voltage equipment and has been color coded to denote scope of supply per the associated legend provided.



Notes: * AEROS® System Controller is installed into one of the battery containers. Alternately, it can be installed into customer control room ** 480V Switchgear configuration, Step-up Transformer and Feeder topology (radial, loop feed or combination) to be established based on customer requirements and project specifics

*** Auxiliary Power Subsystem topology to be established based on customer requirements and project specifics

Figure 3 - Representative Electrical System Diagram, 1MW GSS® System



5	4		3





Section 3.0 Supplemental Stormwater Management Calculation Summary



JOB NO./LOCATION:
2896.07
Winchendon, MA
CLIENT/PROJECT:
West Street 2 Solar, LLC
West Street 2 Solar Array
SUBJECT/TITLE:
Post-Development Hydrology Calculations
OBJECTIVE OF CALCULATION:
• To determine the impact on post-development peak flow rates from the site due to the addition of the proposed battery storage system for the 2, 10, & 100-year storm events at the design points
CALCULATION METHOD(S):
• Runoff curve numbers (CN), time-of-concentration (Tc), and runoff rates were calculated based on TR-55 methodology.
• AutoCAD 2017 computer program was utilized for digitizing ground cover areas.
• Peak runoff rates were computed using HydroCAD version 10.00.
ASSUMPTIONS:
 All assumptions are consistent with previously submitted and approved post-development hydrology design calculation.
• The concrete equipment pad and battery storage system were assumed to be impervious for modeling purposes.
SOURCES OF DATA/EQUATIONS:
• All sources of data and equations are consistent with the post development calculations approved by the

All sources of data and equations are consistent with the post-development calculations approved by the Town of Winchendon Planning Board on 10/31/2017 and Conservation Commission on 9/28/2017.

REV	CALC. BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
0	CHS	08/08/2017	JRM	08/09/2017	JRM	08/09/2017
1	CHS	09/01/2017	JRM	09/05/2017	JRM	09/05/2017
2	n Sontamalo	3/14/2019	A. Murphy	3/14/19	E. LAS	3/14/19
NIDG #	00000700000		,0			

NPS/289607CS002

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CONCLUSIONS:

• Pre-development conditions as approved by the Town of Winchendon Planning Board and Conservation Commission on 10/31/2017 and 9/28/2017 respectively.

Pre-development:

Storm Event	Peak Runoff Rates DP-1 (CFS)	Peak Runoff Rates DP-2 (CFS)	
2-Year	0.00	0.00	
10-Year	0.00	0.00	
100-Year	0.44	0.42	

• Post-development conditions with the addition of the proposed battery storage system.

Post-development:

Storm Event	Peak Runoff Rates DP-1 (CFS)	Peak Runoff Rates DP-2 (CFS)	
2-Year	0.00	0.00	
10-Year	0.00	0.00	
100-Year	0.40	0.08	

• Post-development peak runoff rates are less than pre-development rates in accordance with the Mass DEP Stormwater Handbook.

The addition of the proposed battery storage system creates a de minimus change in peak stormwater runoff rates and the previously approved stormwater management system will perform as designed without modification.



REV	CALC. BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
0	CHS	08/08/2017	JRM	08/09/2017	JRM	08/09/2017
1	CHS	09/01/2017	JRM	09/05/2017	JRM	09/05/2017
2	n Dentangelo	3/14/2019	1. Maybuy	3/14/19	E. LAS	3/14/19

0

NPS/289607CS002

BEALS + THOMAS

Section 4.0 Plans

Figure 1: Red-line exhibit depicting amendments

Entitled "West Street 2 Solar Array" Prepared by Beals and Thomas, Inc. In 1 Sheet Dated March 14, 2019





PREPARED FOR: WEST STREET 2 SOLAR, LLC 4 LIBERTY SQUARE 3rd FLOOR BOSTON, MA 02109 RECORD OWNER: WINCHENDON VENTURES, LLC 34094/336
TO NALLENGE ZIALIO
COPYRIGHT (C) BY BEALS AND THOMAS, INC. ALL RIGHTS RESERVED
PREPARED BY: BEALS + THOMAS Civil Engineers + Landscape Architects + Land Surveyors + Planners + Environmental Specialists BEALS AND THOMAS, INC. Reservoir Corporate Center 144 Turnpike Road Southborough, Massachusetts 01772-2104 T 508.366.0560 www.bealsandthomas.com
5
DES DWN CHK'D APP'D PROJECT: WEST STREET 2 SOLAR ARRAY WINCHENDON, MA. (WORCESTER COUNTY) SCALE: 1" = 50' DATE: AUGUST 9, 2017 METERS 0 25 10 25 10 10
0 10 25 40 0 25 50 100 150 FEET GRADING, DRAINAGE AND UTILITIES PLAN B+T JOB NO. 2896.01 C_101



W-1157-36 April 8, 2019

Tracy Murphy, Director of Development Town of Winchendon 109 Front Street Winchendon, MA 01475

Re: West Street 2 Solar Project – Peer Review Application for Amendment to Approved Site Plan

Dear Tracy and Members of the Planning Board:

Tighe & Bond was previously retained by the Town of Winchendon to provide Peer Review Services to the Planning Board as they review the Site Plan Review and Low Impact Design Permit Applications for the construction of a solar photovoltaic array on West Street (the Project). The Project is located on an approximately 56-acre property on the west side of West Street in Winchendon, Massachusetts. The property is located within the Rural Residential (R-80) and Golf/Residential Overlay (R-10) zoning district, according to the latest Zoning Map, dated November 2, 2009.

The project was initially presented at the September 5, 2017 Planning Board meeting. An initial comment letter summarizing our findings on the application materials was provided to the Board on August 25, 2017. Beals and Thomas, Inc., as the engineer of record for the project, provided a response to comments letter, revised Site Plans, and supporting documentation on September 5, 2017.

Tighe & Bond issued final findings in a letter to the Board dated September 19, 2017. At that time, it is our understanding the Board approved the project. The Applicant, West Street 2 Solar, LLC, has requested an Amendment to Approved Site Plan through the Board to incorporate a battery energy storage system to help meet peak energy demands throughout the grid system. The inclusion of this system required minor changes to the Site Plans and stormwater management analysis.

The Town of Winchendon provided the Application for Amendment to Approved Site Plan, prepared by Beals and Thomas, Inc., dated March 14, 2019. The application was reviewed for compliance with general engineering practices, Winchendon Zoning Bylaw, Low Impact Development (LID) Bylaw, Site Plan Design Guidelines of Massachusetts, and the Massachusetts Stormwater Management Standards.

In general, the project has been designed in accordance with the Town's bylaws and requirements, including the Massachusetts Stormwater Standards. We note that the stormwater management approach has not changed from previous application documents. We concur that the inclusion of the battery storage system will not substantially alter stormwater flow patterns throughout the project, or off-site impacts. As such, the stormwater management system continues to comply with the application local and state regulations.



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We trust this information will be satisfactory for the Board in your review of the West Street 2 Solar Project Amendment to Approved Site Plan Application. Please do not hesitate to contact me should you have any questions or need additional information at 413.572.3238 or jechristy@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.

Jan Echisty

Jean E. Christy, P.E. Project Engineer

J:\W\W1157 Winchendon\Task 036 - West Street Solar Project Peer Review\Correspondence\West Street 2 Solar Peer Review 3.docx



Most recent extension (6 months) granted in August of 2018

Project is under review by ConsComm and magnitude of modifications has not been determined to date. Modification with approval of the Planning Board or Planning Agent will likely be

March 27, 2019

Town of Winchendon Planning Board 109 Front Street Winchendon, MA 01475

Honorable Board Members,

Gagnon Equipment and Parts, Inc., a previously approved construction project, to be located at 504 School Street, respectfully requests the Winchendon Planning Board to grant an additional extension of time to complete our proposed project.

This extension of time is necessary to accommodate the Winchendon Conservation Committee's requests. Due to the fact that a new filing was required it has taken several months to complete. We have been in constant contact with David Koonce and attend every required Conservation meeting. Our next meeting is scheduled for April 11th. We hope to finalize and complete the requirements of the Conservation Committee at that time.

Gagnon Equipment remains committed to move forward with our project and move our established business to Winchendon. Granting this extension will allow for the time necessary to satisfy the Conservation Committee's request and their anticipated approval.

Respectfully, m Jagun

Chris Gagnon Gagnon Equipment and Parts, Inc.

Gagnon Equipment & Parts, Inc. Phone: (978) 297-9500 PO Box 243 - Tewksbury, MA 01876 www.gagnonequipment.com

TOWN OF WINCHENDON



Telephone (978) 297-3308 Facsimile (978) 297-5411

Planning Board

109 Front Street Winchendon, Massachusetts 01475-1758

March 25, 2019

At its August 2, 2016 meeting the Planning Board voted in favor of granting a two year build-out extension for Gagnon Equipment& Parts, LLC (2010-0630) on property located at 504 School Street, identified on Assessors map as Map2, Parcel 95.

The two year extension expired on August 2, 2018.

Please direct any questions regarding this matter to Tracy Murphy in the Planning and Development Office.

Thank you, Tracy Murphy

TOWN OF WINCHENDON



Planning Board

Telephone (978)-297-5419

Planning Board Minutes Special Meeting/Public Hearing March 5, 2019 Town Hall 2nd Floor Auditorium

Present: Chairman Guy Corbosiero, Burton Gould Jr., Arthur Amenta, Scott Robillard, & Joseph Sackett Tracy Murphy, Director of Planning & Development Brianna Roberts, Recording Secretary

Materials: Notice of Meeting: March 5, 2019 Agenda

- 185 Baldwinville Rd. Solar
 - Fire Department Comments
 - CONSCOM Update
- Potential Zoning Updates
 - Letter from George Mizhir
 - Letter from Roger Patten
 - Article 6.12 Medical/Adult Use Marijuana Facilities & Retail Overlay District
- Correspondence License/Permit/Renewal Application
 - o Leah Catlin, Smith's Country Cheese 5/5/19
 - o Don O'Neil, Winchendon History & Cultural Center 7/20/19
 - Tracy Flagg, 5K Road Race 4/6/19
 - o John Thayer, Toy Town Pub 2/20/19
 - o Brennan Jacoby, School St. Auto Sales & Repair 1/28/19
- Gardner Zoning Board of Appeal Meeting Notice 2/19/19
- Notice of Public Hearing: 4/2/19
 - Draft Revisions A-E
- Email from Bill & Donna DiNardo, regarding Roger Patten.
- Email from Andrew Vardakis regarding 2/5/19 meeting to address CONSCOM.
- 2/5/19 Meeting Minutes

6:33PM- Chairman Guy Corbosiero called the Planning Board meeting to order followed by the Pledge of Allegiance to the flag of the United States of America.

Announcements: Chairman Corbosiero announced that anyone is welcome to record the meeting as long as they let the board know.

Planning Board Minutes March 5, 2019
Board Reorganization: Mr. Amenta motioned to appoint Guy Corbosiero as Chairman. Mr. Robillard seconded. The board unanimously voted aye.

Gould (Y) Amenta (Y) Robillard (Y) Sackett (Y) Corbosiero (Y) 5-0

Mr. Gould motioned to appoint Scott Robillard as Vice-Chairman. Mr. Amenta seconded. The board unanimously voted aye.

Gould (Y) Amenta (Y) Robillard (Y) Sackett (Y) Corbosiero (Y) 5-0

Mr. Corbosiero motioned to appoint Mr. Amenta as secretary. Mr. Gould seconded. The board unanimously voted aye.

Gould (Y) Amenta (Y) Robillard (Y) Sackett (Y) Corbosiero (Y) 5-0

Announcements: None

Public comments: None

6:37PM- New Business: Public Hearing Continued- Site plan application for a 3.135 MW DC Ground-Mount Solar Development on property located at 185 Baldwinville Rd.

Mr. Gould motioned to continue the hearing on April 16^{th} at 6:35PM. Mr. Amenta seconded. The board unanimously voted aye.

Gould (Y) Amenta (Y) Robillard (Y) Sackett (Y) Corbosiero (Y) 5-0

Potential Zoning Updates for Spring 2019:

Mrs. Murphy stated the hearing on any potential zoning updates has to be held on April 2nd as it needs to be advertised 14 days in advance. The proposed amendments to the Winchendon Zoning Bylaw:

- *A.* To amend Article 5.2.2.P. Commercial Uses: to allow by Special Permit Self Service Storage Facility in the PD zone with note 15: in existing structures only.
- B. To ament Article 5.2.3.H Industrial Uses to allow by Special Permit Enclosed light manufacturing processing, fabrication, packaging, assembly and storage, marketing in the R10 zone with note 16: no outside storage allowed.
- *C.* To amend Article 6.11.4.b. Solar Energy Collection Systems to add *the installation of wooded buffers to restrict visual access from abutting residential properties is required.*
- *D.* To amend Article 6.12.6.1 Application Requirements for all Marijuana Facilities to include *CCC* or *DPH licensing is not required at time of submission however is done so at applicants risk.*
- *E.* To amend Article 6.12.6.2 Additional Requirements for all Marijuana Facilities to include *no part of the facility/building may lie within the 500' buffer excluding areas designated as parking facilities.*

A- George Mizhir had brought this restriction to the boards attention but is not in pursuit of adding any storage facilities at the moment.

B- Roger Patten performs antique automotive body panel fabrication as a hobby at the moment and is requesting a change in the bylaw to run a full time business from his residence. Mr. Robillard confirmed that this request is a change in the bylaws and Mr. Patten would still have to apply for a special permit if the request is granted.

Mrs. Murphy stated this request would change all 3 R10 zones to allow light fabrication.

Planning Board Minutes March 5, 2019 **C-** Mrs. Murphy commented the change in verbiage is just a clarification. The solar companies have followed through with wooded buffers when requested but there is no requirement at the moment.

The board would like to add: The installation of wooded/natural buffer to restrict visual access as determined by the planning board or it's authorized agent from abutting residential properties and roadways is required.

D- Clarification that marijuana facilities may start the town application process before receiving state licensing. However, it is at the applicant's own risk, as state licensing is required to receive a local permit.

E- This change would clarify that the entire building is required to be outside the 500' buffer, and not just the front door as currently stated.

Mr. Sackett motioned to hold a public hearing on April 2nd regarding the 5 amendments to the zoning bylaws. Mr. Amenta seconded. Mr. Gould voted no. **Gould (N) Amenta (Y) Robillard (Y) Sackett (Y) Corbosiero (Y) 4-1**

Committee/Meeting Updates:

MRPC will meet Thursday. The MJCT has cancelled twice due to inclement weather. Mrs. Murphy stated the meeting on Central St. last Thursday went well. A lot of good questions were asked and the state handled it well. The meeting is online for anyone that missed it.

Old Business: None

Other Business: None

Mr. Gould motioned to adjourn the meeting. Mr. Robillard seconded. The board unanimously voted aye. Gould (Y) Amenta (Y) Robillard (Y) Sackett (Y) Corbosiero (Y) 5-0

Chairman Corbosiero adjourned the meeting at 7:25PM.

Respectfully submitted:

Brianna Roberts, Planning Board Recording Secretary

Guy Corbosiero, Chairman

Burton Gould

Arthur Amenta

Scott Robillard

Joseph Sackett

Planning Board Minutes March 5, 2019

TOWN OF WINCHENDON



Planning Board

Telephone (978)-297-5419

Approved: / /

Planning Board Minutes Special Meeting/Public Hearing December 18th, 2018 Town Hall 2nd Floor Conference Room

- **Present:** Chairman Guy Corbosiero, Burton Gould Jr., Arthur Amenta, and Scott Robillard Chantell Fleck, Director of Planning & Development Brianna Roberts, Recording Secretary
- Materials:December 18th 2018 Agenda11/13/18 MinutesForm A (ANR) Walnut Street, Applicant is John Callahan

Call to Order: 6:35 PM - Pledge of Allegiance

Announcements: Chairman Corbosiero announced that anyone is welcome to record the meeting as long as they let the board know. The planning board is short two board members, 1 regular & 1 alternate. Please let the board know if you are interested. Our first planning meeting of the New Year falls on New Years Day and will be postponed to January 15th if there are items on the agenda. We are live streaming online for the first time tonight.

Public comments: It was the last meeting for the planning agent, Chantell Fleck. The board thanked her for the great work she has done and wished her the best in her future endeavors.

Approval of Minutes: 11/13/18

Mr. Robillard motioned to approve the November 13th 2018 minutes and Mr. Amenta seconded the motion. The board unanimously voted aye.

New Business: ANR: Walnut Street, Applicant is John Callahan

Unfortunately the applicant's wife passed away on Saturday so he was not present. The board sends their condolences.

Mr. Corbosiero explained that this application is in regards to taking a parcel of land from the large lot office and attaching it on to the parcel at 14 Walnut St. The additional parcel is .03 acres 36x42 ft. The applicant is going through the ANR process, and requires an endorsement from the planning board to notify the registry of deeds.

Mr. Corbosiero asked if there were any comments from board members.

Mr. Robillard asked if this is just a transfer of land from one owner to the next?

Mr. Corbosiero stated both parcels are owned by two separate entities but John Callahan is the trustee of both.

Mr. Corbosiero asked for a motion to endorse the ANR. They are allowed to do this by right and this is not a subdivision of land.

The endorsement by the planning board serves simply to notify the registry of deeds.

Mr. Amenta motioned to endorse and Mr. Robillard seconded the motion. Mr. Corbosiero voted aye, Mr. Robillard voted aye, Mr. Amenta voted aye, and Mr. Gould voted present.

The planning board motioned to endorse the approval of Form A (ANR) Walnut Street, Applicant- John Callahan.

Old Business: None

Committee/Meeting Updates: None

Other Business: None

Chairman Corbosiero adjourned the meeting at 6:47PM.

Respectfully submitted:

Brianna Roberts, Planning Board Recording Secretary

Guy Corbosiero, Chairman

Burton Gould

Arthur Amenta

Scott Robillard

TOWN OF WINCHENDON



Planning Board Correspondence Summary April 16, 2019 Meeting

Items before the Select Board with no Planning Components:

- Recreation Commission Entertainment Permission Request submitted 3/31 to allow for the Toy Town Summer Concert Series at GAR Park (Town Hall Auditorium if weather is inclement). Events to be held Fridays from 6:30pm to 8pm between June 14, 2019 and July 26, 2019.
- Clark YMCA Road Race Permission Request submitted 4/4 to allow for a Road Race starting at 11 am on April 27th per the course map proposed.

Items before the Select Board with Planning Comments/Issues:

Decisions from Local Communities:

(For actual copies of the decisions please see Alison Manugian)

Royalston – Planning Board – Decision dated 3/27/19
 A Public Hearing was held for consideration of a Special Permit application from Clean Focus
 Renewables/Greenskies Renewable Energy for premises at 4 Bel-Nel Road & 4 King Street. The
 Board voted to approve the requested permit for a Large Scale Ground Mounted Solar installation.