

COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY STATE BOARD ON ELECTRIC GENERATION
AND TRANSMISSION SITING

In the Matter of:

ELECTRONIC APPLICATION OF BARRELHEAD)	
SOLAR, LLC FOR A CERTIFICATE OF)	
CONSTRUCTION FOR AN APPROXIMATELY 54-)	CASE NO.
MEGAWATT MERCHANT ELECTRIC SOLAR)	2025-00177
GENERATING FACILITY IN WAYNE COUNTY,)	
KENTUCKY PURSUANT TO KRS 278.700 AND)	
807 KAR 5:110)	

ORDER

On October 3, 2025, Barrelhead Solar, LLC (Barrelhead Solar) filed an application with the Kentucky State Board on Electric Generation and Transmission Siting (Siting Board) seeking a Construction Certificate to construct an approximately 54-megawatt ground-mounted solar photovoltaic electric generating facility (Project) comprising approximately 307 acres of land in Wayne County, Kentucky.

ORDER

There are no intervenors in this matter. Pursuant to a procedural schedule established on October 17, 2025, and as amended on December 22, 2025, Barrelhead Solar responded to two rounds of discovery.¹ Barrelhead Solar filed a motion for deviation on November 12, 2025, which was subsequently updated on January 16, 2026. A site visit was held on December 8, 2025. Siting Board consultant, Harvey Economics

¹ Barrelhead Solar's Response to Siting Board Staff's First Request for Information (Staff's First Request) (filed Dec. 1, 2025); Supplemental responses were filed Dec. 14, 2025; Barrelhead Solar's Response to Siting Board Staff's Second Request for Information (Staff's Second Request) (filed Jan. 8, 2026).

(Harvey), filed its report (Harvey Report) on January 22, 2026. Barrelhead Solar submitted its response to the Harvey Report on January 28, 2026. A formal hearing was held on February 17, 2026. Barrelhead Solar filed a post-hearing brief on February 24, 2026. Barrelhead Solar filed its responses to post-hearing requests for information on March 3, 2026.² The matter now stands submitted for a decision.

LEGAL STANDARD

The filing requirements and standard of review for requests to construct a merchant generating facility are set forth in KRS 278.700–718. KRS 278.704(1) requires that an application be filed with and approved by the Siting Board before the construction of a merchant electric generating facility can commence. KRS 278.706 requires that the application includes evidence of public notice and compliance with local planning and zoning ordinances.

KRS 278.708(2) requires Barrelhead Solar to prepare a site assessment report (SAR) that includes (1) a detailed description of the proposed site; (2) an evaluation of the compatibility of the facility with scenic surroundings; (3) potential changes in property values and land use resulting from the siting, construction, and operation of the proposed facility for property owners adjacent to the site; (4) evaluation of anticipated peak and average noise levels associated with the facility's construction and operation at the property boundary; (5) the impact of the facility's operation on road and rail traffic to and within the facility, including anticipated levels of fugitive dust created by the traffic and any anticipated degradation of roads and lands in the vicinity of the facility; and (6) any

² Barrelhead Solar's Response to Siting Board Staff's Post Hearing Request for Information (Siting Board's Post Hearing Request) (filed March 3, 2026).

mitigating measures to be suggested by Barrelhead Solar to minimize or avoid adverse effects identified in the SAR.

KRS 278.710(1) delineates the criteria on which the Siting Board will grant or deny the certificate, which include (1) impact on scenic surroundings, property values, and surrounding roads; (2) anticipated noise levels during construction and operation of the facility; (3) economic impact on the region and state; (4) whether the proposed facility meets all local planning and zoning requirements existing on the date the application was filed; (5) impact of the additional load on the reliability of jurisdictional utilities; (6) setback requirements; (7) efficacy of mitigation measures proposed by Barrelhead Solar; and (8) whether the applicant has a good environmental compliance history.

PROPOSED FACILITY

The Project will be located on 307 acres south of the city of Monticello in Wayne County, Kentucky.³ The project will include 98,000 photovoltaic solar panels, associated ground-mounted racking, 15 inverters, an AC collection system, access roads, and utility substation transformer that will interconnect to the Eastern Kentucky Power Cooperative (EKPC) overhead transmission line that crosses the Project site.⁴

DISCUSSION AND FINDINGS

I. KRS 278.708: SAR Filing Requirements and Mitigation Measures

Mitigation Measures Proposed by Barrelhead Solar and Siting Board Consultant

³ Application at 4.

⁴ Application at 4.

As required by KRS 278.708(4), Barrelhead Solar proposed various mitigation measures consistent with the statutes regarding traffic, noise, roadway preservation, permitting, setbacks, public safety, scenic preservation, and decommissioning.⁵

In accordance with KRS 278.708(5), Harvey recommended mitigation measures in the following areas: site development planning; compatibility with scenic surroundings, noise levels during construction and operation; road and traffic and degradation, economic impacts; decommissioning; public outreach and complaint resolution programs.⁶ Barrelhead Solar did not provide any objections to any of the mitigation measures proposed by Harvey but provided statements from the Harvey Report that indicates that Barrelhead Solar's application for construction certificate satisfies the criteria for approval by the Siting Board.⁷

The Siting Board has reviewed the mitigation measures proposed by Barrelhead Solar and Harvey, and finds that, in addition to those Harvey has initially proposed, the mitigation measures set forth in Appendix A to this Order and discussed throughout this Order are appropriate and reasonable because they achieve the statutory purpose of mitigating the adverse effects identified in the SAR and the Harvey Report in accordance with KRS 278.708.

Detailed Site Description

KRS 278.708(3)(a)(1–6) requires that the detailed site description in the SAR include a description of (1) surrounding land uses for residential, commercial, agricultural,

⁵ Application, SAR at 10-13.

⁶ Harvey Report (filed Jan. 22, 2026), Section 6 at 3–9.

⁷ Response to Consultant Report (filed on Jan. 28, 2026).

and recreational purposes; (2) the legal boundaries of the proposed site; (3) proposed access control to the site; (4) the location of facility buildings, transmission lines, and other structures; (5) location and use of access ways, internal roads, and railways; and (6) existing or proposed utilities to service the facility.

Barrelhead Solar submitted the required SAR with its application.⁸ The SAR contained a preliminary site plan,⁹ which was updated during the pendency of proceedings.¹⁰ The proposed site plan included proposed constructions entrances, existing roads, access roads, proposed security fence line, proposed substation location, proposed inverter locations, proposed solar array areas, existing transmission lines, exclusion areas, laydown areas, pollinator areas, existing flood plains, jurisdictional wetlands, proposed POI, and colored aerial imagery.¹¹ The Project does not anticipate use of the railway for delivery of Project components.¹² Barrelhead Solar will prepare a demolition study prior to construction to determine whether any structures would be demolished as part of the Project.¹³ The Project anticipates approximately 13.51 acres of trees would be cleared for construction.¹⁴ The Project survey boundary is depicted in

⁸ Application, SAR.

⁹ SAR, Appendix B.

¹⁰ Barrelhead's Response to Siting Board Staff's First Request, Item 23.

¹¹ Barrelhead's Response to Siting Board Staff's First Request, Item 23.

¹² Harvey Report, Section 2 at 6.

¹³ Barrelhead's Response to Siting Board Staff's First Request, Item 89.

¹⁴ Barrelhead's Response to Siting Board Staff's First Request, Item 94.

the application.¹⁵ The legal descriptions of the participating properties are listed in the application,¹⁶ as well as copies of the lease agreements.¹⁷

Four separate entrances will allow access to the Project site during construction and operations.¹⁸ The main entrance will be located at the northern end of the Project site.¹⁹ Three other entrances will be located along Massingale Road.²⁰ Approximately 11,900 linear feet of gravel roads will be constructed across the Project site for internal mobility.²¹ Each entrance will have its own security gate during construction and operations.²² The Project solar arrays and other infrastructure will be secured with approximately 25,100 linear feet of perimeter fence, consisting of six-foot metal fencing topped with an additional foot of barbed wire.²³ A security fence meeting National Electrical Safety Code (NESC) requirements will secure the substation area.²⁴ Barrelhead Solar and the Engineering, Procurement, and Construction (EPC) contractor will be responsible for controlling access to the Project Area during construction.²⁵ Barrelhead Solar will be responsible for controlling access to the Project Area during

¹⁵ SAR, Appendix B.

¹⁶ SAR, Appendix C.

¹⁷ SAR, Appendix D.

¹⁸ Harvey Report, Section 2 at 2.

¹⁹ Harvey Report, Section 2 at 2.

²⁰ Harvey Report, Section 2 at 2.

²¹ Harvey Report, Section 2 at 2.

²² Harvey Report, Section 2 at 2.

²³ Harvey Report, Section 2 at 2.

²⁴ Harvey Report, Section 2 at 2.

²⁵ Barrelhead's Response to Siting Board Staff's First Request, Item 9.

operations.²⁶ Access to the Project will be controlled by locked gates outside of working hours.²⁷ Approximately 13,057 linear feet of cabling will be required for the solar infrastructure.²⁸ The Upchurch Tap – Wayne County 69 kV line section owned by EKPC will be cut and looped into the new interconnection substation as part of the Project.²⁹ The new transmission line loop-in facilities will be owned, operated, and maintained by EKPC.³⁰ If the Project requires auxiliary electrical service, it will be acquired from EKPC.³¹ No utility water or sewage lines are expected to be built or used for the Project.³²

The area around the Project site predominantly consists of agricultural and forested land, as well as rural residential properties.³³ Existing vegetation is also present in the area, including trees and shrubs.³⁴ Local roads are generally paved, two-lane roads, without shoulders present.³⁵ According to the Harvey Report, local road conditions vary, with some requiring improvements.³⁶ A church and several small cemeteries are in close proximity to the Project boundary.³⁷ A total of 43 residential structures and 20 non-

²⁶ Barrelhead's Response to Siting Board Staff's First Request, Item 9.

²⁷ Barrelhead's Response to Siting Board Staff's First Request, Item 9.

²⁸ Barrelhead's Response to Siting Board Staff's First Request, Item 90.

²⁹ Barrelhead's Response to Siting Board Staff's First Request, Item 16.

³⁰ Barrelhead's Response to Siting Board Staff's First Request, Item 16.

³¹ Harvey Report, Section 2 at 2.

³² Harvey Report, Section 2 at 2.

³³ Harvey Report, Section 2 at 1.

³⁴ Harvey Report, Section 2 at 1.

³⁵ Harvey Report, Section 2 at 6.

³⁶ Harvey Report, Section 2 at 6.

³⁷ Harvey Report, Section 2 at 1.

residential structures will be located within 2,000 feet of the Project boundary line.³⁸ The closest home will be more than 180 feet from a solar panel and further from any inverter or the Project substation.³⁹ Of the 17 residential homes that may have a view of the Project, one is a participating structure.⁴⁰ About 88 percent of the acreage adjacent to the Project site is classed as agricultural or mixed agricultural/residential.⁴¹ The Project Area will be compromised of five individual parcels.⁴² There are two residential neighborhoods (as defined by KRS 278.700(6)), within two thousand (2,000) feet of the Project, but no schools, hospitals, or nursing homes within that range.⁴³

Having reviewed the record of this proceeding, the Siting Board finds that Barrelhead Solar has complied with the requirements for describing the facility and a site development plan as required by KRS 278.708. However, the Siting Board finds that it is necessary to impose specific mitigation measures and requirements related to the description of the facility and the proposed site development plan. The Siting Board will require that Barrelhead Solar keep the Siting Board apprised of changes throughout the development of the Project and, as such, will order Barrelhead Solar to provide a final site plan for approval before the commencement of construction. The final site plan should indicate any change, including those to the design and boundaries of the Project, from the proposed site plan provided to the Siting Board during the pendency of this matter.

³⁸Harvey Report, Section 2 at 1.

³⁹Harvey Report, Section 2 at 1.

⁴⁰ Barrelhead's Response to Siting Board Staff's Second Request, Item 44.

⁴¹ Harvey Report, Section 2 at 3.

⁴² Barrelhead's Response to Siting Board Staff's First Request, Item 7.

⁴³ SAR at 3.

Furthermore, based on the findings and proposals of the Harvey Report, the Siting Board finds that additional mitigation measures are required. These mitigation measures are outlined in Appendix A to this Order as mitigation measures 1 through 9.

Compatibility with Scenic Surroundings

Barrelhead Solar indicated that the Project site is a mixture of agricultural fields, grassed fields, and forest/wooded areas.⁴⁴ Barrelhead Solar stated, in order to minimize viewshed impacts, existing vegetation between the site boundary and nearby roadways and homes will be left in place, to the extent feasible.⁴⁵ Barrelhead Solar further stated that it will implement a landscape plan and will utilize native vegetation as a visual buffer to mitigate viewshed impacts.⁴⁶ In areas where the viewshed impacts occur visible from residences or roadways, Barrelhead Solar stated that it will add a heavier planting of native vegetation.⁴⁷ The Harvey Report noted that, in some areas, panels or other infrastructure will be visible from local roadways or residences.⁴⁸ However, Barrelhead Solar stated the area includes existing natural vegetation in the form of trees, shrubs, and hedgerows, and the use of the proposed vegetative screening would further reduce visibility.⁴⁹ Harvey also reviewed the effect on the surroundings and concluded that facility

⁴⁴ Application at 4.

⁴⁵ SAR at 4.

⁴⁶ SAR at 4.

⁴⁷ SAR at 4.

⁴⁸ Harvey Report, Section 2 at 4.

⁴⁹ Harvey Report, Section 2 at 4.

would be compatible with the scenic surroundings due to its rural locating, existing vegetation and by adding vegetative buffers.⁵⁰

Having reviewed the record, the Siting Board finds that, while there will always be an impact on the scenery of neighboring properties, the impact of this Project will be minimal. The proposed vegetative buffer, along with other mitigation measures proposed by Barrelhead Solar and Harvey, will minimize the effect that the proposed facility will have on the scenic surroundings of the site. However, the Siting Board finds it should require mitigation measures in addition to those proposed by Barrelhead Solar. Those are set forth in Appendix A to this Order and as mitigation measures 10 through 16.

Impact on Property Values

Barrelhead Solar submitted a property value impact report conducted by Kirkland Appraisals (Kirkland Report), a certified real estate appraiser.⁵¹ The Kirkland Report found that, based upon a matched paired analysis and the sale/resale analysis, the solar facility will have no impact on the property values of abutting or adjoining residential or agricultural properties.⁵² The report indicated that the solar facility would function in a harmonious manner with the nearby surroundings, which are mostly agricultural, and that operation of the Project would not generate the level of noise, odor, or traffic to negatively impact the nearby surroundings as compared to a fossil-fuel generating facility or other industrial facilities.⁵³

⁵⁰ Harvey Report, Section 2 at 4.

⁵¹ SAR, Appendix A.

⁵² SAR, Appendix A at 1-2.

⁵³ SAR, Appendix A at 1 and 140.

Harvey conducted further analysis of the data provided by the Kirkland Report.⁵⁴ After reviewing additional research studies, Harvey spoke with Wayne County Property Value Administrator, Bobby Upchurch, who indicated that home prices in Wayne County “have skyrocketed” since COVID.⁵⁵ The Harvey Report noted that Mr. Upchurch stated he is not sure the Project will have much of an effect on nearby property values, positive or negative, but stated that it might slow the increase in local prices.⁵⁶ Harvey also met with the Wayne County Judge Executive Scott Gehring who, according to the Harvey Report, stated that he was concerned about the runoff from the facility had county magistrates had voice concerned regarding environmental degradation of the Project site.⁵⁷ While not discussed in the property valuation portion of the report, the report does address the expected environmental impacts of the project in the discussion of the Cumulative Environmental Assessment (CEA) performed by the Applicant.⁵⁸ Harvey concluded that property values in the project area and in Wayne County are unlikely to be affected by project.⁵⁹ The Harvey Report conclusion assumed that mitigation measures would be adopted by Barrelhead Solar.⁶⁰

Having reviewed the record, the Siting Board finds sufficient evidence to conclude that the proposed Barrelhead Solar facility will not have a significant adverse impact on

⁵⁴ Harvey Report, Section 5 at 10-15.

⁵⁵ Harvey Report, Section 5 at 18.

⁵⁶ Harvey Report, Section 5 at 18.

⁵⁷ Harvey Report, Section 5 at 18.

⁵⁸ Harvey Report, Section 3 at 9.

⁵⁹ Harvey Report, Section 5 at 21.

⁶⁰ Harvey Report, Section 5 at 21.

nearby property values as long as proper mitigation measures are implemented. The characteristics of the solar facility's operations are passive, and the facility will be temporary, with the land returned to its natural state after a few decades of operation. The facility does not produce any air, noise, waste, or water pollution, nor does it create any traffic issues during operations.

Anticipated Noise Level

Barrelhead Solar's Noise Analysis Report was completed by Copperhead Environmental Consulting (Copperhead).⁶¹ Copperhead used representative noise levels from the U.S. Department of Transportation Federal Highway Administration Model.⁶² Copperhead stated the estimated maximum noise levels during construction will occur during pile driving,⁶³ and estimated that, at the closest receiver, 161 feet from the closest panel, the noise levels during pile driving would be 74 decibels A-weighted scale (dBA).⁶⁴ Copperhead stated that construction related activity is expected to occur between 7 a.m. to 7 p.m.⁶⁵

Copperhead found operational noise will emanate from inverters, transformers, and solar arrays.⁶⁶ Based on Copperhead's operational sound modeling the highest sound level at nearby sensitive receptors was 36 dBA.⁶⁷ Copperhead stated that the

⁶¹ SAR, Appendix E, Noise Analysis Report.

⁶² SAR, Appendix E at 11.

⁶³ SAR, Appendix E at 23.

⁶⁴ SAR, Appendix E, Table 5 at 14.

⁶⁵ SAR, Appendix E at 10.

⁶⁶ SAR, Appendix E at 15-16.

⁶⁷ SAR, Appendix E, Table 6 at 20.

Project's sites ambient sound environment would return to existing levels during operation.⁶⁸ Copperhead concluded construction-related noise impacts would be temporary and intermittent, and would not contribute to a significant sound increase when compared to sound currently occurring on or near the site.⁶⁹

Harvey evaluated the Noise Analysis Report conducted by Copperhead and also concluded that the Project's construction phase will produce the highest noise levels, especially during pile-driving activity.⁷⁰ Harvey noted that, although construction noise will be intermittent, residents close to the Project might find the noise to be troublesome.⁷¹ Barrelhead Solar agreed with the Harvey Report conclusion that construction noise will occur only for short periods of time.⁷²

In its SAR, Barrelhead Solar detailed the following noise mitigation measures,⁷³

If the pile-driving activity occurs within 1,500 feet of a noise-sensitive receptor, the Applicant would implement a construction method that will suppress the noise generated during the pile-driving process (i.e., semi-tractor and canvas method, sound blankets on fencing surrounding the solar site, or any other comparable method).

The Siting Board finds that noise from the construction phase will be intermittent and temporary but will have a significant impact to the nearest residences. The Harvey Report concluded that Barrelhead Solar should limit the construction activity, process and

⁶⁸ SAR, Appendix E at 24.

⁶⁹ SAR, Appendix E at 23.

⁷⁰ Harvey Report a 5-24

⁷¹ Harvey Report at 5-30.

⁷² Barrelhead Solar's Response to Consultant's Report at 2.

⁷³ SAR, Appendix E at 23.

deliveries to 8:00 a.m. to 5:00 p.m., Monday through Saturday with no construction work on Sundays.⁷⁴ Harvey recommended that Barrelhead Solar coordinate with the Fairview Church to limit pile driving and oversized deliveries passing near the Church and Buncan Cemetery during services and funerals.⁷⁵

Based on the case record, the Siting Board finds that Barrelhead Solar's application complies with statutory requirements for disclosing noise levels. As indicated by Copperhead and Harvey, the noise will be loudest during the construction phase but will not be permanent for nearby residents. The Siting Board further finds that the operational noise from inverters and the substation transformers should have little to no effect on residences in the area.

However, the Siting Board further finds that, based on the entire record, to ensure the impact of construction noise does not unduly impact nearby residents, Barrelhead Solar should implement specific mitigation measures to ensure the impact of construction noise does not unduly impact nearby residents. The mitigation measures implemented by the Siting Board are designed to limit the effects of construction noise by controlling the hours of construction in general, as well as the time and manner pile driving can occur. Barrelhead Solar should mitigate construction noise up to 1,500 feet to ensure the surrounding community is not negatively impacted by the construction noise. Barrelhead Solar may forgo noise suppression if it employs a panel installation method that does not involve pile driving, so long as the method does not produce noise levels similar to pile

⁷⁴ Harvey Report, Section 5 at 31.

⁷⁵ Harvey Report, Section 5 at 31.

driving. These mitigation measures are further outlined in Appendix A to this Order, specifically mitigation measures 17 through 19.

Impact on Roads, Railways, and Fugitive Dust

Construction is anticipated to take eight to twelve months.⁷⁶ Vehicles traveling to the Project site will use I-17 and KY 90 to reach local roads accessing the site.⁷⁷ KY 1009 and Massingale Road are the local roads that will be used to reach the four entrances for the proposed Project.⁷⁸ A Traffic Impact Study was conducted by Copperhead Environmental Consulting (Copperhead) for this project.⁷⁹ Copperhead concluded that, during the construction phase, there will be a temporary increase in traffic volume associated with the travel of construction workers, the delivery of construction equipment and materials, and the delivery of solar panel components and equipment.⁸⁰ According to the SAR, traffic delays will likely occur when slow moving construction vehicles have to travel on smaller roads.⁸¹ During the operation's phase of the project, the long-term impacts to traffic will be negligible because the project would require minimal staff during the operations and maintenance phase.⁸²

⁷⁶ Hearing Video Testimony (HVT) of the December 18, 2025, hearing, Trudie Grattan Testimony at 10:54:17-10:54:22.

⁷⁷ Harvey Report, Section 5 at 32.

⁷⁸ Harvey Report, Section 5 at 32.

⁷⁹ SAR, Appendix I, Traffic Impact Study.

⁸⁰ SAR, Appendix I at 5.

⁸¹ SAR, Appendix I at 5.

⁸² SAR, Appendix I, Traffic Impact Study at 6.

The Siting Board finds that traffic and road degradation issues can be addressed with Barrelhead Solar's mitigation measures, the additional measures proposed by Harvey, and further finds that the mitigation measures set forth in Appendix A to this Order and in particular, mitigation measures 21 through 29, should be implemented.

The Siting Board anticipates some fugitive dust from the construction phase. Barrelhead Solar stated that it will mitigate the dust from the construction by utilizing best management practices that include implementing the use of water for dust control.⁸³ Dust will not be a factor during the operation's phase.

The Siting Board requires additional mitigation measures to reduce any potentially harmful effects on the area, which are outlined in Appendix A to this Order. The Siting Board will require Barrelhead Solar to inform the Siting Board and the Energy and Environment Cabinet (EEC) of the date construction will commence, not less than 30 days prior, to ensure the proper permits have been obtained and whether proper steps have been taken to comply with the mitigation measures set forth in Appendix A to this Order.

II. KRS 278.710(1) Criteria

In addition to the evaluation of the factors addressed in the SAR, the Siting Board considered the below-described factors set forth in KRS 278.710(1) in rendering its decision.

⁸³ Application at 12.

Economic Impact on Affected Region and the State

According to Barrelhead Solar's updated economic impact report, it will invest over \$81 million in Wayne County, Kentucky.⁸⁴ The project is expected to generate a positive economic and fiscal impact to Wayne County. The project will be conducted in two phases: a construction phase and an operation phase.⁸⁵

According to the report, the IMPLAN model used for the economic impact analysis focused on Wayne County only because of the lack of industrial linkages in the region.⁸⁶ During the project construction phase, Barrelhead Solar estimated that approximately 133.4 jobs-years will be created over the construction period with total compensation of approximately \$7.9 million including fringe benefits, with an average wage of \$59,339.37 per construction job.⁸⁷ An additional estimated proprietor income \$3 million (sourced from Pulaski County which is Wayne County's largest neighbor) added to \$7.9 million labor income yields a direct labor income of \$10.9 million.⁸⁸

The indirect economic impact is estimated to contribute another 24.2 job-years with an additional \$1.1 million in labor income while the induced economic impacts are estimated to contribute another 25.93 job-years with an additional \$1 million in labor income.⁸⁹ The total construction phase economic impact is estimated to be 183.53 total

⁸⁴ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Updated Economic and Fiscal Impact Report of Barrelhead Solar, at 1.

⁸⁵ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 9.

⁸⁶ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 9.

⁸⁷ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 10.

⁸⁸ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 10.

⁸⁹ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 11 (including Table 3).

full-time equivalent jobs in Wayne County with new labor income of \$13.1 million.⁹⁰ Barrelhead Solar intends to hire as many local workers as permitted by the sub-contractors it chooses for the project.⁹¹

The ongoing economic impact from the project's operational phase is estimated to be very small relative to the one-time impacts from the construction phase. The ongoing operational phase of the project is expected to generate four full-time jobs with the annual labor income for a full-time operations employee is estimated to be \$152,067 (including fringe benefits) per year.⁹²

Barrelhead Solar and Wayne County are in the preliminary stages of negotiating an Industrial Revenue Bond (IRB) and a Payment in Lieu of Taxes (PILOT) Agreement pending further consideration of the project by the Wayne County Judge Executive.⁹³ If an IRB and PILOT are not reached, Barrelhead Solar estimates that it will pay property taxes to Wayne County School District of approximately \$887,544.12 and other Wayne County taxing entities would receive approximately \$712,455.88 over the 40-year project life.⁹⁴

In addition to property taxes, occupational taxes will be collected for the project. During the construction phase, an estimated \$74,887 in occupational taxes will be

⁹⁰ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 11.

⁹¹ Barrelhead Solar's Response to Siting Board Staff's Second Request, Item 9.

⁹² Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 12 and Barrelhead Solar's Response to Siting Board Staff's First Request, item 74

⁹³ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 79 and Barrelhead's Response to Siting Board Staff's Second Request, Item 25.

⁹⁴ Barrelhead Solar's Response to Siting Board Staff's Second Request, item 71.

collected.⁹⁵ During the operational phase, an estimated \$5,857 per year in occupational taxes will be collected.⁹⁶ Over the 40-year life of the project (including the construction phase), a total of \$309,167 in occupational taxes will be collected.⁹⁷

Harvey evaluated the economic impact of the project.⁹⁸ Based upon its review and analysis, Harvey concluded that the project would provide limited positive economic effects to the region and Commonwealth during the construction and operations phases of the project.⁹⁹

Having reviewed the record, the Siting Board finds that the Barrelhead Solar facility will have a positive economic impact on the region.

Existence of Other Generating Facilities

Barrelhead Solar indicated that efforts were made to site the Project where there was existing electric transmission infrastructure.¹⁰⁰ Barrelhead Solar stated that the Project will interconnect to an on-site existing transmission line owned by EKPC.¹⁰¹

Local Planning and Zoning Requirements

Wayne County does not have planning and zoning and has not enacted any zoning ordinances or setback requirements. The statutory requirements of KRS 278.706(2)(e) apply unless a deviation is applied for and granted by the Siting Board. KRS

⁹⁵ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 13.

⁹⁶ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 14.

⁹⁷ Barrelhead Solar's Response to Siting Board Staff's First Request, Item 70, Attachment at 14.

⁹⁸ Harvey Report, Section 2 at 6.

⁹⁹ Harvey Report, Section 5 at 46.

¹⁰⁰ Application at 10.

¹⁰¹ Application at 10.

278.706(2)(e) requires that all proposed structures or facilities used for generation of electricity must be 2,000 feet from any residential neighborhood, school, hospital, or nursing home facility. The Project will be closer than that to residences, but there are no schools, hospitals, or nursing homes within 2,000 feet.¹⁰²

Impact on Transmission System

The project is located within the territory of EKPC.¹⁰³ EKPC is part of the Pennsylvania-New Jersey-Maryland Interconnection (PJM) Regional Transmission Organization (RTO).¹⁰⁴ The project will include a 100–150-foot transmission line¹⁰⁵ that will deliver electricity from the project substation to the point of interconnection with the existing Upchurch to Wayne County 69kV transmission line.¹⁰⁶

In September 2020, Barrelhead Solar filed an application for a Generator Interconnection request to PJM.¹⁰⁷ This project is in PJM's Transition Cluster 1.¹⁰⁸ Phase I of the system impact study was completed in May 2024.¹⁰⁹ Phase II was completed in December 2024.¹¹⁰ Phase III of the study was completed in September 2025.¹¹¹ A Generator Interconnection Agreement among PJM, Barrelhead Solar, and

¹⁰² Application at 12.

¹⁰³ Application at 12.

¹⁰⁴ Application at 12.

¹⁰⁵ HVT of the September 9, 2025, hearing, Trudie Grattan at 11:21:56-11:22:59.

¹⁰⁶ Application at 12.

¹⁰⁷ Application at 12.

¹⁰⁸ Application at 12.

¹⁰⁹ Application at 12.

¹¹⁰ Application at 12.

¹¹¹ HVT of the September 9, 2025, hearing, Trudie Grattan at 11:21:11.

EKPC was filed with Federal Energy Regulatory Commission (FERC) on February 11, 2026.¹¹²

Based upon the case record, the Siting Board finds that Barrelhead Solar has satisfied the requirements of KRS 278.710(1)(f) and that the additional load imposed upon the electric transmission system by the generation of electricity at the Barrelhead Solar facility will not adversely affect the reliability of service for retail customers of electric utilities regulated by the Kentucky Public Service Commission. This finding is based upon Barrelhead Solar's commitment to the interconnection process and protocols consistent with the requirements of KRS 278.212.

Barrelhead Solar did not file a separate application for a nonregulated transmission line, but it is seeking a certificate of construction of a transmission line.¹¹³ Barrelhead Solar stated that the transmission line will be approximately 100-150 feet and will stretch from the project's substation to a utility switchyard.¹¹⁴ Based on the case record, the Siting Board finds Barrelhead Solar is approved for a construction certificate for a transmission line. The transmission line is minimal in length and is contained within the Project's boundaries. The transmission line will have minimal effects on the scenic surroundings and Barrelhead Solar has stated it will abide by the NESC in the construction and operation of the transmission line.

¹¹² Barrelhead Solar's Response to Siting Board Staff's Post Hearing Request, Item 1 and HVT of the September 9, 2025, hearing, Trudie Grattan at 11:21:56-11:21:26.

¹¹³ Application at 2.

¹¹⁴ HVT of the September 9, 2025, hearing, Trudie Grattan at 11:22:04–11:22:25.

Similar to Pine Grove Solar, LLC, Hummingbird Energy, LLC, and Song Sparrow Solar LLC, the transmission line is short and is contained within parcels of property to be used for the Project.¹¹⁵ The transmission line will have minimal effects on the scenic surroundings.

Compliance with Setback Requirements

There are no applicable setbacks established by Wayne County for the project. KRS 278.706(2)(e) requires that all proposed structures or facilities used for electric generation be at least 2,000 feet from any residential neighborhood, school, hospital, or nursing home facility.¹¹⁶ KRS 278.704(4) authorizes the Siting Board to grant a deviation from the setback requirements in KRS 278.706(2)(e), if requested.¹¹⁷ Barrelhead Solar has requested a deviation from the setback requirements in KRS 278.706(2)(e).¹¹⁸ Barrelhead Solar requested to be allowed to place generating equipment no closer than 1,000 feet from the nearest residential neighborhood.¹¹⁹

¹¹⁵ Case No. 2022-00262, *Application of Pine Grove Solar, LLC Certificate of Construction for an Approximately 50 Megawatt Solar Generating Facility and Nonregulated Electric Transmission Line in Madison County, Pursuant to KRS 278.700 and 807 KAR 5:110* (filed on Dec. 1, 2022); Case No. 2022-00272, *Application of Hummingbird Energy, LLC for a Certificate of Construction for an Approximately 200 Megawatt Solar Generating Facility and Nonregulated Electric Transmission Line in Breckinridge County, Pursuant to KRS 278.700 and 807 KAR 5:110* (filed on June 23, 2023); and Case No. 2023-00256, *Application of Song Sparrow Solar LLC for a Certificate of Construction for an Approximately 104 Megawatt Solar Generating Facility Ballard County, Pursuant to KRS 278.700 and 807 KAR 5:110* (filed on Sept. 1, 2023).

¹¹⁶ KRS 278.706(2)(e).

¹¹⁷ KRS 278.704(4).

¹¹⁸ Barrelhead Solar's Updated Motion for Deviation from Setback Requirements (Motion for Deviation) (filed Jan. 16, 2026).

¹¹⁹ Updated Motion for Deviation at 1.

Barrelhead Solar stated there are two residential neighborhoods within 2,000 feet of the project's boundaries.¹²⁰ Of the two residential neighborhoods, the West neighborhood is the closest.¹²¹ The Project's fencing is proposed to be 1,208 feet from the closest residence in the West neighborhood.¹²² The closest solar panel is proposed to be 1,437 feet from the closest residence in the West neighborhood.¹²³ The East neighborhood is the closest to the project's inverters.¹²⁴ The closest inverter is 1,779 feet from the closest home in the East neighborhood¹²⁵ and 1,803 feet from the closest home in the West neighborhood.¹²⁶ Both neighborhoods are over 2,300 feet from the project's substation.¹²⁷ The closest non-participating residence is 182 feet from the closest panel.¹²⁸

KRS 278.710 gives the Siting Board the authority to require "the implementation of any mitigation measures that the board deems appropriate."¹²⁹ The Siting Board finds that the motion for deviation filed in this case should be granted in part. The Siting Board approves Barrelhead Solar's proposed setback distance of 1,000 feet between any solar panel or string inverter and any residential neighborhood. Even though this setback has

¹²⁰ Updated Motion for Deviation at 2.

¹²¹ Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²² Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²³ Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²⁴ Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²⁵ Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²⁶ Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²⁷ Barrelhead Solar's Response to Staff's Second Request, Item 48.

¹²⁸ Barrelhead Solar's Response to Staff's Second Request, Item 29.

¹²⁹ KRS 278.708(6).

been approved Barrelhead Solar should continue to work with nonparticipating landowners and attempt to maintain the proposed distances to which it has committed in its maps and site plans.

The Siting Board finds that Barrelhead Solar shall not place solar panels or string inverters, if used, closer than 200 feet from a residence, church, or school, 25 feet from non-participating adjoining parcels, or 50 feet from adjacent roadways and 100 feet from any exterior property line. Barrelhead Solar shall not place a central inverter, and if used, energy storage systems, closer than 450 feet from any adjacent residences, churches, or schools.

The Siting Board finds given the totality of the mitigation measures proposed by Barrelhead Solar, the nature of the surrounding property, and the mitigation measures the Siting Board has imposed in Appendix A, the statutory purposes are met by the project. Exceptions to these setback requirements for participating landowners, and easement holders, are included in Appendix A, mitigation measure 20.

History of Environmental Compliance

In the application, Barrelhead Solar stated that neither it, nor anyone with an ownership interest in it, has violated any environmental laws, rules, or administrative regulations.¹³⁰ Further, Barrelhead Solar asserted that it is not aware of any pending judicial or administrative actions regarding violations of any state environmental laws or regulations against Barrelhead Solar nor any entity with direct ownership interest in the Project.¹³¹

¹³⁰ Application at 14.

¹³¹ Application at 14.

Transfer of Ownership

Solar developments are often sold to other companies during the planning, construction, and operation of projects. When a construction certificate for a solar facility is sought, the Project and the developers are thoroughly evaluated to ensure that the Project will comply with all statutory and regulatory requirements. After review, the construction certificate is conditionally granted contingent on full compliance with all mitigation measures, some of which continue into the operation of the project. As noted in the preceding section, the Siting Board not only reviews the history and abilities of the Person¹³² seeking the certificate, but also the entities that have an ownership interest in the Project. Here, Barrelhead Solar has no resources or employees of its own and instead depends on the resources and employees of affiliates or entities with an ownership interest in it. Barrelhead Solar indicated that it would employ the persons responsible for compliance with the construction certificate during construction and the persons responsible for the continued compliance during operations.¹³³ However, without Birch Creek Development LLC, Barrelhead Solar would not have the managerial, technical, or financial capability necessary to construct or operate the facility, nor to comply with the conditions required herein.

As such, the Siting Board finds that any transfer of ownership or control of Barrelhead Solar, the person seeking and being granted, with conditions, the construction certificate in this matter, must be approved by the Siting Board in advance of the transfer

¹³² KRS 278.700(3) defines a person as any individual, corporation, public corporation, political subdivision, governmental agency, municipality, partnership, cooperative association, trust, estate, two (2) or more persons having a joint or common interest, or any other entity.

¹³³ Barrelhead Solar's Response to Siting Board Staff's Second Request, Item 24.

of ownership or control taking place. Without knowledge of who is providing the resources and employees to Barrelhead Solar to ensure ongoing compliance with the measures required herein, there is no way to ensure the requirements are adhered to throughout the life of the Project. The Siting Board must approve all transfers to determine if they meet the criteria set forth in KRS 278.710(3). The measures related to the transfer of ownership or control are set forth more fully in Appendix A, mitigation measure 30.

Decommissioning

Barrelhead Solar submitted a decommissioning plan with the application.¹³⁴ The decommissioning plan outlines the removal of underground components to the depth of three feet including underground wiring and conduits.¹³⁵ Barrelhead Solar indicated it will secure a bond to assure financial performance of the decommissioning obligation.¹³⁶

The Siting Board finds that Barrelhead Solar must return the land to its original use, to the extent possible, at the end of the Project's life. Returning the land back to its original state and use after decades of operation is an important part of the Siting Board's finding regarding the impact of the facilities on scenic surroundings, property values, and the economy. The relative "temporary" nature of the facilities compared to other types of more permanent development, such as thermal merchant generation facilities, industrial operations, or housing, is a prime consideration of the Siting Board in granting a certificate, with conditions, in this matter. An inability or unwillingness to return the land back to its prior state after the life of the facility, including leaving underground facilities in

¹³⁴ Application, Attachment G.

¹³⁵ Application, Attachment G at 3.

¹³⁶ Application, Attachment G at 10.

excess of three feet, increases the permanence of the facility. As such, the Siting Board requires the removal of all components above and below ground. Removal of all underground components and regrading or recompacting the soil for later use will mitigate any damage to the land, thus returning the land to a state that provides at least as great of an economic impact as it does today. The Siting Board will also require additional mitigation measures related to decommissioning, which are outlined in Appendix A to this Order, mitigation measures 31 and 36.

CONCLUSION

After carefully considering the criteria outlined in KRS Chapter 278, the Siting Board finds that Barrelhead Solar has presented sufficient evidence to support the issuance of a Construction Certificate to construct the proposed merchant solar facility and a nonregulated transmission line. The Siting Board conditions its approval upon the full implementation of all mitigation measures and other requirements described herein and listed in Appendix A to this Order. A map showing the location of the proposed solar generating facility is attached hereto as Appendix B.

IT IS THEREFORE ORDERED that:

1. Barrelhead Solar's application for a Construction Certificate to construct an approximately 54 MW merchant solar electric generating facility and approximately 100-150 feet nonregulated transmission line in Wayne County, Kentucky, is conditionally granted subject to full compliance with the mitigation measures and conditions prescribed in Appendix A to this order.
2. Barrelhead Solar's motion for deviation from setback requirements in KRS 278.704(2) is granted. Barrelhead shall comply with the setbacks prescribed in the

mitigation measures in Appendix A to this order.

3. Barrelhead Solar shall fully comply with the mitigation measures and conditions prescribed in Appendix A to this Order.

4. In the event mitigation measures within the body of this Order conflict with those prescribed in Appendix A to this Order, the measures in Appendix A shall control.

5. This case is closed and removed from the Siting Board's docket.

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KENTUCKY STATE BOARD ON ELECTRIC
GENERATION AND TRANSMISSION SITING



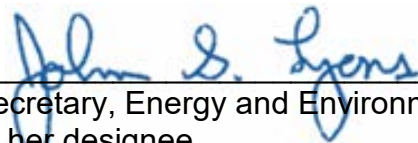
Chairman, Public Service Commission



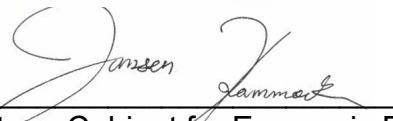
Commissioner, Public Service Commission



Commissioner, Public Service Commission





Secretary, Energy and Environment Cabinet,
or her designee



Secretary, Cabinet for Economic Development,
or his designee

ATTEST:

Executive Director
Public Service Commission
on behalf of the Kentucky State
Board on Electric Generation
and Transmission Siting



APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY STATE BOARD ON ELECTRIC GENERATION AND TRANSMISSION SITING IN CASE NO. 2025-00177 DATED APR 01 2026

MITIGATION MEASURES AND CONDITIONS IMPOSED

The following mitigation measures and conditions are hereby imposed on Barrelhead Solar to ensure that the facilities proposed in this proceeding are constructed as ordered.

1. A final site layout plan shall be submitted for approval to the Siting Board upon completion of the final site design and no less than 30 days prior to construction. Deviations from the preliminary site layout should be clearly indicated in the revised graphic. Those changes could include, but are not limited to, location of solar panels, inverters, transformers, substations, operation and maintenance building, transmission line route, battery energy storage system, or other Project facilities and infrastructure.

2. Any change in the Project boundaries from the information that formed this evaluation shall be submitted to the Siting Board for review.

3. The Siting Board will determine whether any deviation in the boundaries or site layout plan is likely to create a materially different pattern or magnitude of impacts.

4. Barrelhead Solar shall provide the date that construction will commence with the Siting Board and the EEC, Division of Waste Management, at least 30 days prior to the commencement of construction of the Project.

5. Barrelhead Solar shall submit a status report to the Siting Board every six months from the date of this Order until the project begins generating electricity to update

the Siting Board on the progress of the Project. The report shall reference this case number and be filed in post-case correspondence in this case.

6. Barrelhead Solar shall comply with all requirements in KRS 278.710 for monitoring by EEC.

7. At least 14 days prior to construction, Barrelhead Solar shall provide a finalized Emergency Response Plan to the local fire district, first responders, and any county emergency management agency. Barrelhead Solar shall provide site-specific training for local emergency responders at their request. Access for fire and emergency units shall be set up after consultation with local authorities.

8. Barrelhead Solar or its contractor will control access to the site during construction and operation. All construction entrances will be gated and locked when not in use.

9. Barrelhead Solar's access control strategy shall also include appropriate signage to warn potential trespassers. Barrelhead Solar must ensure that all site entrances and boundaries have adequate signage, particularly in locations visible to the public, local residents, and business owners.

10. The security fence, as described in the Order, shall be installed prior to activation of any electrical installation work in accordance with National Electrical Safety Code (NESC) standards. The substation shall have its own separate security fence and locked access installed in accordance with NESC standards.

11. Existing vegetation between solar arrays and nearby roadways and homes shall be left in place to the extent feasible to help minimize visual impacts and screen the Project from nearby homeowners and travelers. Barrelhead Solar will not remove any

existing vegetation except to the extent it must remove such vegetation for the construction and operation of Project components.

12. If any components of the facility are visible to neighboring homes after construction, Barrelhead Solar shall assess the feasibility of a screening plan, including consulting neighbors to determine whether there are adverse impacts to their viewshed. If a screening plan is considered, regardless of whether it is ultimately implemented, notice of such consideration shall be filed with the Siting Board.

13. To the extent that an affected adjacent property owner indicates to Barrelhead Solar that a visual buffer is not necessary, Barrelhead Solar will obtain that property owner's written consent and submit such consent in writing to the Siting Board.

14. Barrelhead Solar shall implement planting of native evergreen species as a visual buffer to mitigate visual viewshed impacts, in areas where those viewshed impacts occur from residences or roadways directly adjacent to the Project and there is not adequate existing vegetation. If it is not adequate, then ten feet thick vegetation reaching six feet at maturity (in four years) will be added by Barrelhead Solar between Project infrastructure and residences, or other occupied structures, with a line of sight to the facility to the reasonable satisfaction of the affected adjacent property owners. Planting of vegetative buffers may be done over the construction period; however, Barrelhead Solar should prioritize vegetative planting at all periods of construction to reduce viewshed impacts. All planting shall be done prior to the operation of the facility.

15. Barrelhead Solar shall cultivate at least two acres of native, pollinator-friendly species onsite.

16. Barrelhead Solar shall carry out visual screening consistent with the plan proposed in its Application, SAR, and the maps included, and ensure that the proposed new vegetative buffers are successfully established and developed as expected over time. Should vegetation used as buffers die over time, Barrelhead Solar shall replace plantings as necessary.

17. Barrelhead Solar is required to limit construction activity, process, and deliveries to the hours between 8 a.m. and 6 p.m. local time, Monday through Saturday. The Siting Board directs that construction activities that create a higher level of noise, such as pile-driving, will be limited to 9 a.m. to 5 p.m. local time, Monday through Friday. Non-noise causing and non-construction activities can take place on the site between 7 a.m. and 10 p.m. local time, Monday through Sunday, including field visits, arrival, departure, planning, meetings, mowing, surveying, etc.

18. If the pile-driving activity occurs within 1,500 feet of a noise-sensitive receptor, Barrelhead Solar shall implement a construction method that will suppress the noise generated during the pile-driving process (i.e., semi-tractor and canvas method; sound blankets on fencing surrounding the solar site; or any other comparable method). Barrelhead Solar can forego using noise suppression measures if it employs a panel installation method that does not use pile driving, so long as that method does not create noise levels similar to pile driving.

19. Barrelhead Solar shall notify residents and businesses within 2,400 feet of the Project boundary about the construction plan, the noise potential, any mitigation plans, and its Complaint Resolution Program referred to in Item 33 of this Appendix, at least one month prior to the start of construction.

20. The Siting Board also approves a distance of 1,300 feet between any solar panel or string inverter and any residential neighborhood. Barrelhead Solar shall not place solar panels or string inverters, if used, closer than 200 feet from a residence, church, or school, 25 feet from non-participating adjoining parcels, or 50 feet from adjacent roadways and 100 feet from any exterior property line. Barrelhead Solar shall not place a central inverter, and if used, energy storage systems, closer than 450 feet from any adjacent residences, churches, or schools. These further setbacks shall not be required for residences owned by landowners involved in the Project that explicitly agree to lesser setbacks and have done so in writing. All agreements by participating landowners to lesser setbacks must include language advising the participating landowners of the setbacks otherwise required herein. All agreements by participating landowners to lesser setbacks must be filed with the Siting Board prior to commencement of the Project.

21. Barrelhead Solar shall fix or pay for repairs for damage to roads and bridges resulting from any vehicle transport to the site. For damage resulting from vehicle transport in accordance with all permits, those permits will control.

22. Barrelhead Solar shall comply with all laws and regulations regarding the use of roadways.

23. Barrelhead Solar shall implement ridesharing between construction workers when feasible, use appropriate traffic controls, or allow flexible working hours outside of peak hours to minimize any potential traffic delays during a.m. and p.m. peak hours.

24. Barrelhead Solar shall consult with the Kentucky Transportation Cabinet (KYTC) regarding truck and other construction traffic and obtain necessary permits from the KYTC.

25. Barrelhead Solar shall consult with the Wayne County Road Department (WCRD) regarding truck and other construction traffic and obtain any necessary permits from the WCRD.

26. Barrelhead Solar shall develop special plans and obtain necessary permits before transporting heavy loads, especially the substation transformer, onto state or county roads.

27. Barrelhead Solar shall comply with any road use agreement executed with WCRD. Such an agreement might include special considerations for overweight loads, routes utilized by heavy trucks, road weight limits, and bridge weight limits.

28. Barrelhead Solar shall develop and implement a traffic management plan to minimize the impact on traffic flow and keep traffic safe. Any such traffic management plan shall also identify any traffic-related noise concerns during the construction phase and develop measures that would address those noise concerns.

29. Barrelhead Solar shall properly maintain construction equipment and follow best management practices related to fugitive dust throughout the construction process, including the use of water trucks. Dust impacts shall be kept at a minimal level. The Siting Board requires Barrelhead Solar's compliance with 401 KAR 63:010.

30. If any person shall acquire or transfer ownership of, or control, or the right to control the Project, by sale of assets, transfer of stock, or otherwise, or abandon the same, Barrelhead Solar or its successors or assigns shall request explicit approval from

the Siting Board prior to the transfer of ownership, with notice of the request provided to the Wayne County Fiscal Court. In any application requesting such abandonment, sale, or change of control, Barrelhead Solar shall certify its compliance with KRS 278.710.

31. As applicable to individual lease agreements, Barrelhead Solar, its successors, or assigns will abide by the specific land restoration commitments agreed to by individual property owners as described in each executed lease agreement.

32. Barrelhead Solar did file a decommissioning plan with the Siting Board. If this decommissioning plan should change, Barrelhead Solar shall submit an updated decommissioning plan pursuant to KRS 278.710(8).

33. Barrelhead Solar shall initiate and maintain the Complaint Resolution Program provided to the Siting Board in the case record to address any complaints from community members. Barrelhead Solar shall also submit annually a status report associated with its Complaint Resolution Program, providing, among other things, the individual complaints, how Barrelhead Solar addressed those complaints, and the ultimate resolution of those complaints identifying whether the resolution was to the complainant's satisfaction.

34. Barrelhead Solar shall provide the Wayne County Judge Executive the contact information for individuals within the company that can be contacted with concerns. This shall include contact information for the general public to reach individuals that can address their concerns. Barrelhead Solar shall update this contact information yearly, or within 30 days of any change in contact information.

35. Barrelhead Solar shall adhere to the proposed transmission line route presented in the application. Should Barrelhead Solar find it necessary to include any

parcel of land not included in this response in order to finalize the route of the proposed transmission line, Barrelhead Solar shall return to the Siting Board to request an amendment to the location of the transmission line or right-of-way.

36. Barrelhead Solar should work with the Wayne County Fiscal Court to address any concerns that arise at any point regarding its proposed decommissioning plan.

37. The Siting Board can reconvene to enforce any of the above mitigation measures until the generation of electricity commences.

38. Within 30 days of service of this Order, Barrelhead Solar shall send a copy of this Order to all the adjoining landowners who previously were required to receive notice of this Project.

APPENDIX B

APPENDIX TO AN ORDER OF THE KENTUCKY STATE BOARD ON
ELECTRIC GENERATION AND TRANSMISSION SITING IN
CASE NO. 2025-00177 DATED APR 01 2026

FIVE PAGES TO FOLLOW

Attachment A
CONTEXT MAP

Barrelhead Solar, LLC

Wayne County, Kentucky



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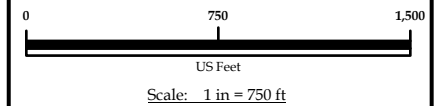
Prepared for:

Barrelhead Solar, LLC

FIGURE 1:
Project Overview for the
Barrelhead Solar Project,
Wayne County, Kentucky.

Legend

 Project Boundary

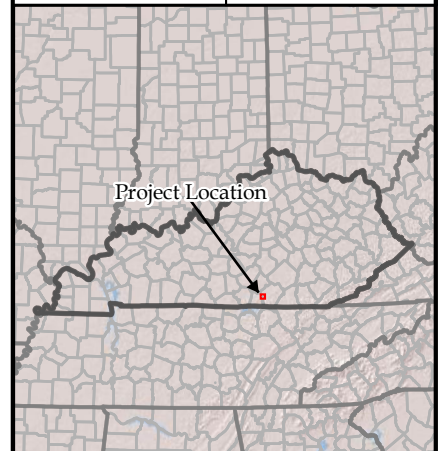


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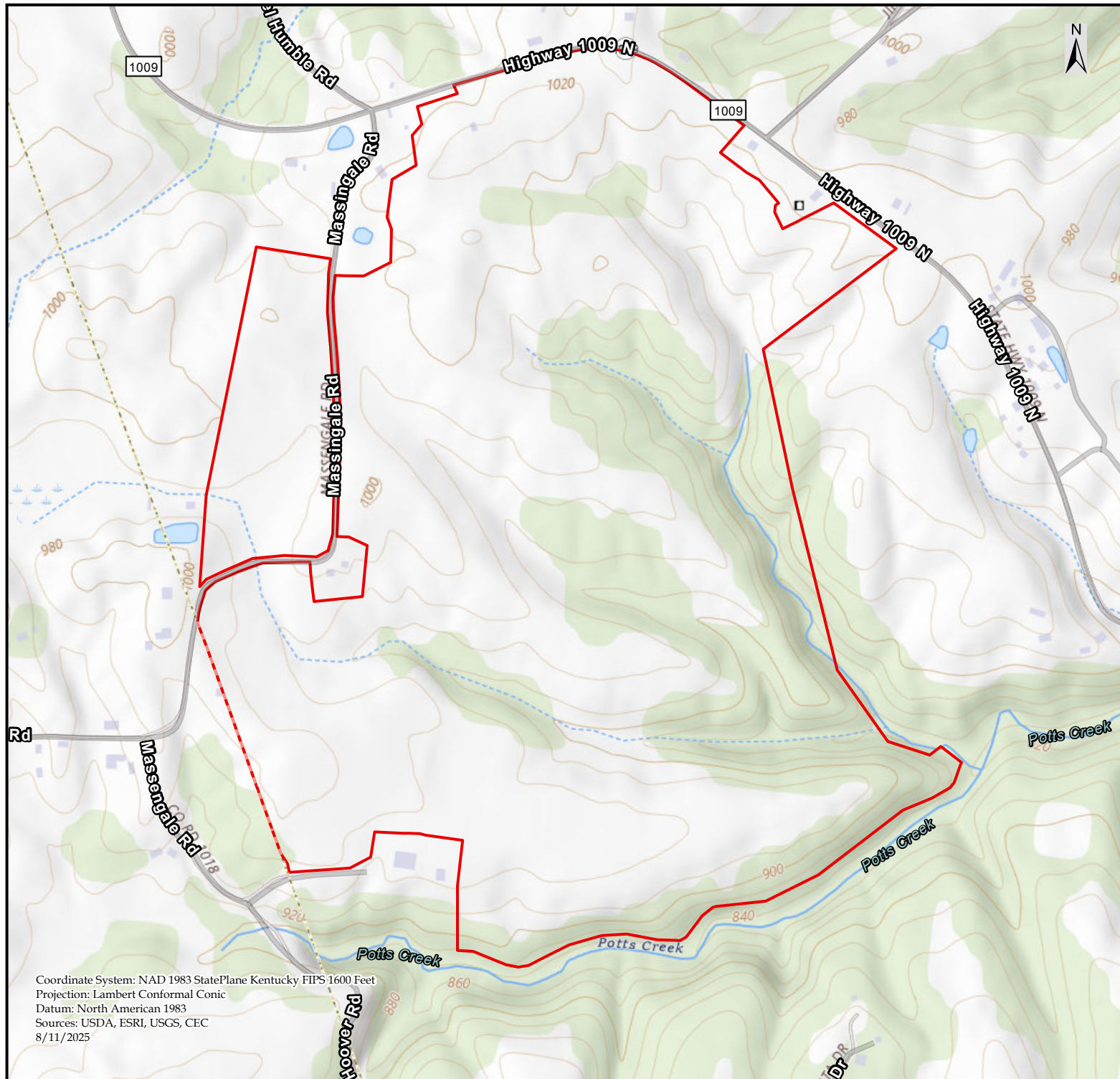
Copperhead Environmental Consulting, Inc.
471 Main Street
P.O. Box 73
Paint Lick, Kentucky 40461

Drawn by:	CM	Date:	8/11/2025
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Checked by:	KR	Revision:	03
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Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Sources: USDA, ESRI, USGS, CEC
8/11/2025



Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983
 Sources: USDA, ESRI, USGS, CEC
 8/11/2025



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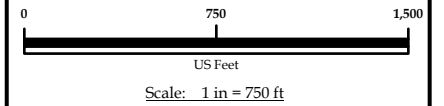
Prepared for:

Barrelhead Solar, LLC

FIGURE 2:
 Project Overview for the
 Barrelhead Solar Project,
 Wayne County, Kentucky.

Legend

 Project Boundary

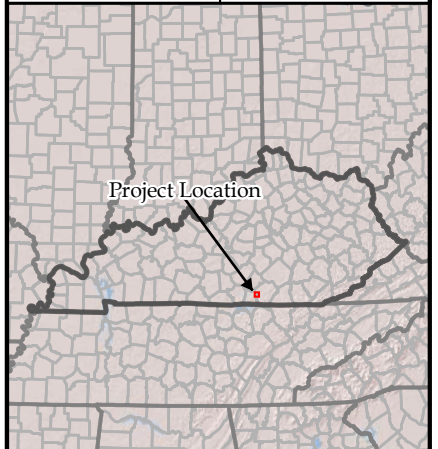


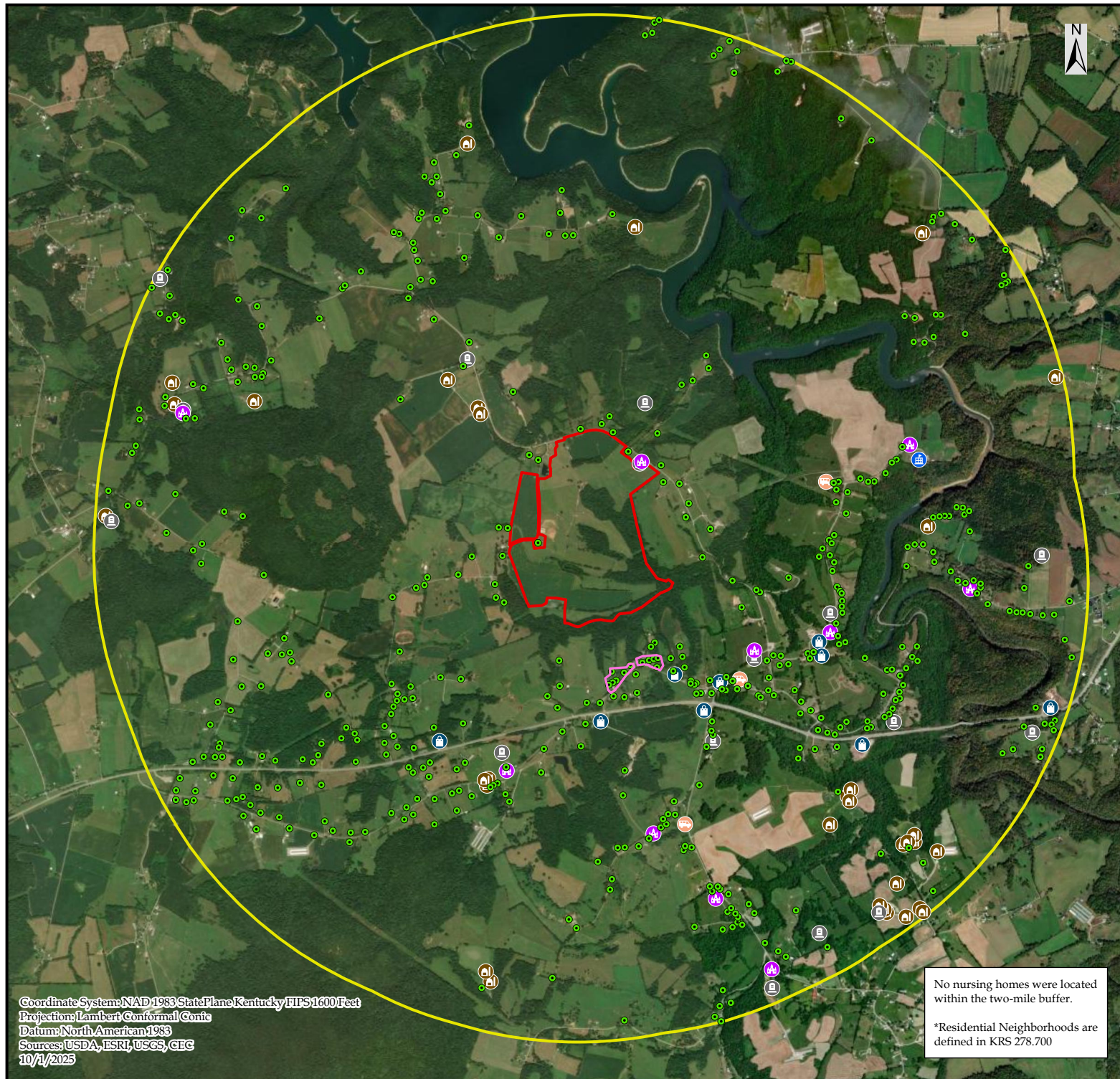
Prepared by :

Copperhead Environmental Consulting, Inc.
 471 Main Street
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 Paint Lick, Kentucky 40461

Drawn by: CM Date: 8/11/2025

Checked by: KR Revision: 03





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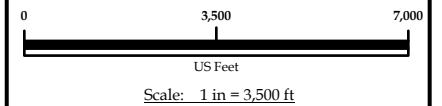
Prepared for:

Barrelhead Solar, LLC

FIGURE 3:
Two-mile Vicinity Map for the
Barrelhead Solar Project,
Wayne County, Kentucky.

Legend

- Barn
- Cemetery
- Church
- Commercial
- School
- Utility
- Residential
- Residential Neighborhood
- Project Boundary
- 2 Mile Buffer

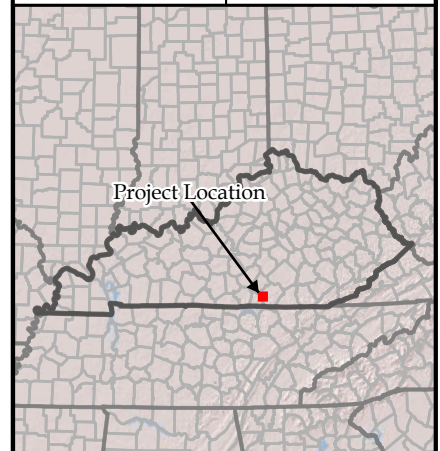


Prepared by :

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Drawn by: CM Date: 10/1/2025

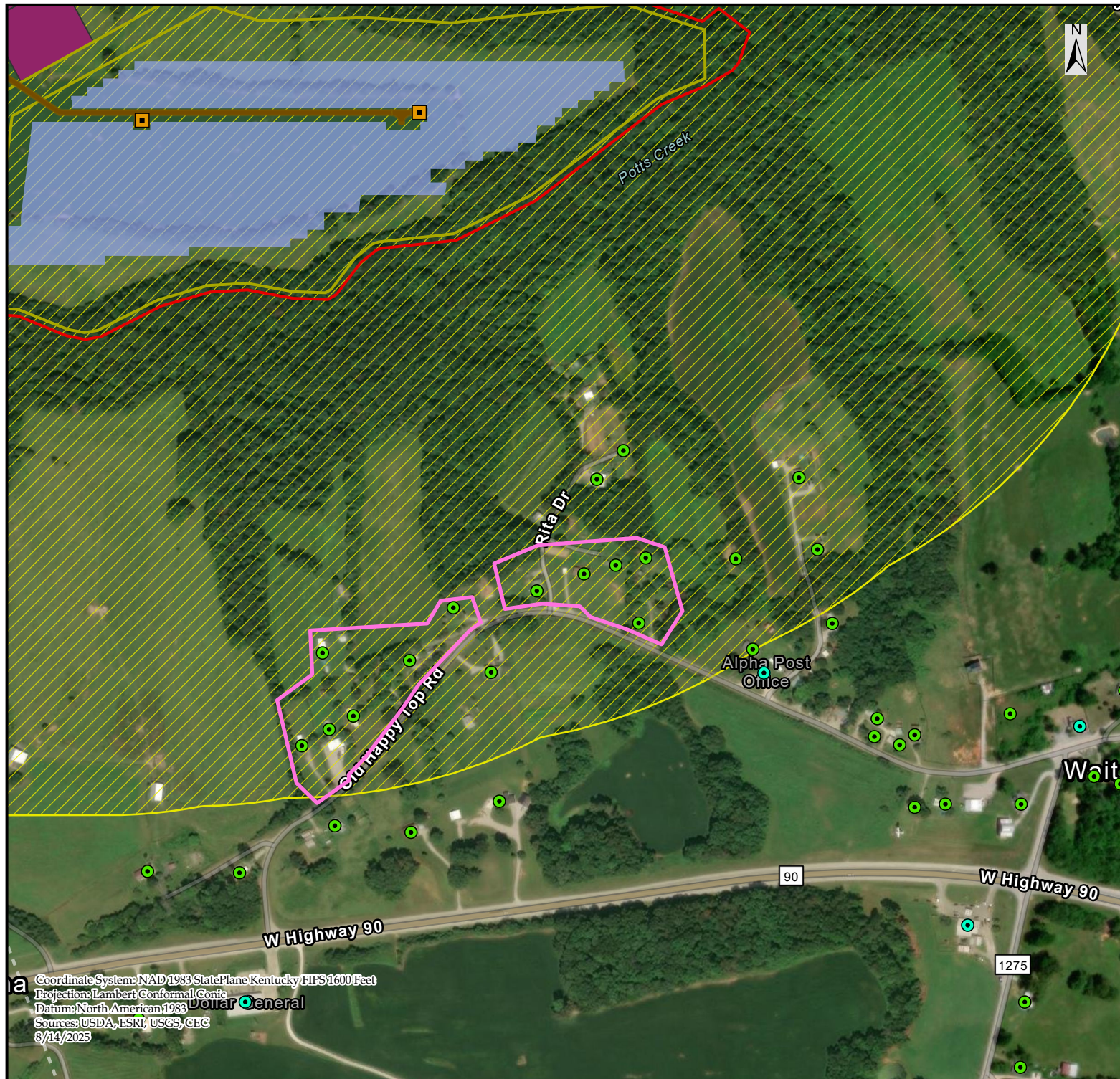
Checked by: KR Revision: 01



Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Sources: USDA, ESRI, USGS, CEC
10/1/2025

No nursing homes were located
within the two-mile buffer.

*Residential Neighborhoods are
defined in KRS 278.700



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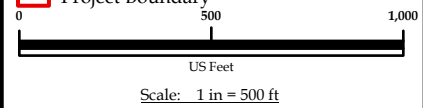
Prepared for:

Barrelhead Solar, LLC

FIGURE 4:
Residential Neighborhoods
for the Barrelhead Solar Project,
Wayne County, Kentucky.

Legend

- Commercial
- Residence
- Inverter
- Residential Neighborhood
- Fence
- Project Road
- Solar Array
- Substation
- 2000ft Buffer
- Project Boundary



Prepared by :
Copperhead Environmental Consulting, Inc.
471 Main Street
P.O. Box 73
Paint Lick, Kentucky 40461

Drawn by:	CM	Date:	8/14/2025
Checked by:	MM	Revision:	05



Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Sources: USDA, ESRI, USGS, CEC
8/14/2025

Service List for 2025-00177

* Trudie Grattan

Birch Creek Development, LLC
2650 Locust Street
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St. Louis, MO 63103

* James W Gardner

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* Rebecca C. Price

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