



Wayne County, North Carolina Board of Commissioners

January 2, 2024
224 E. Walnut Street
Courthouse 4th Floor
Goldsboro, NC 27530

MINUTES

8:00 A.M. AGENDA BRIEFING

During the scheduled briefing and prior to the regularly scheduled meeting, the Board of Commissioners held an advertised briefing session to discuss the items of business on the agenda.

The briefing began at 8:00 a.m., with County Manager Chip Crumpler reviewing the agenda. Mr. Crumpler made the following adjustments to the agenda:

**Moved the Motion to Establish a Board of Adjustment Public Hearing on February 6, 2024, at 9:30 a.m., to receive public comment on the Special Use Permit for HackBerry Solar Energy Facility from the Consent Agenda to New Business, to include Recessing the Board of Commissioner meeting, Convening the Board of Adjustment meeting, Consider the motion, Recess the Board of Adjustment meeting, and Reconvene the Board of Commissioner meeting.*

**Add Budget Amendment #264 to the existing Budget Amendments under the Consent Agenda.*

**Add Motion to Approve Phase Three of the 24/72 Transition for EMS Scheduling, contingent on county management approval.*

Finance Director Angie Boswell reviewed the budget amendments and answered questions from the board.

Planning Director Berry Gray reviewed the preliminary plat for Derby Ridge Subdivision and the final plat for Edgerton Farms Estates, Section 4, and answered questions from the board.

Human Resources Director Sara Larson reviewed the YouthBuild grant application and answered questions from the board.

Chairman Chris Gurley recommended January 31, 2024, and February 1, 2024, for the budget and goals retreat.

Members Present: Chris Gurley, Chairman; George Wayne Aycock, Jr., Vice-Chairman; Barbara Aycock; Joe C. Daughtery.

Members Absent: Freeman Hardison, Jr.; Bevan Foster; Antonio Williams.

9:00 A.M. CALL TO ORDER - Chairman Chris Gurley

The Wayne County Board of Commissioners met on Tuesday, January 2, 2024, at 9:03 a.m. in the Commissioners Meeting Room in the Wayne County Courthouse Annex, Goldsboro, North Carolina, after due notice thereof had been given.

Members present: Chris Gurley, Chairman; George Wayne Aycock, Jr., Vice-Chairman; Barbara Aycock; Joe C. Daughtery; Bevan Foster.

Members absent: Freeman Hardison, Jr.; Antonio Williams.

INVOCATION - Commissioner Barbara Aycock

Commissioner Barbara Aycock gave the invocation.

PLEDGE OF ALLEGIANCE - Commissioner Bevan Foster

Commissioner Bevan Foster led the Board of Commissioners in the Pledge of Allegiance to the Flag of the United States of America.

APPROVAL OF MINUTES

1. Motion to Approve December 19, 2023 Minutes.
Upon motion of Vice-Chairman George Wayne Aycock, Jr., the Board of Commissioners unanimously approved the December 19, 2023 Minutes.

DISCUSSION/ADJUSTMENT OF AGENDA

2. Motion to Approve (Adjusted) January 2, 2024 Agenda.
Upon motion of Commissioner Joe C. Daughtery, the Board of Commissioners unanimously approved the Adjusted January 2, 2024, Agenda.

CONSENT AGENDA

Upon motion of Commissioner Barbara Aycock, the Board of Commissioners unanimously approved the Consent Agenda, detailed below.

3. Budget Amendments
#234-EMS/#239-911/#240-4H/#244-Finance/#247-Animal Services/#250-Sheriff's Office/#252-DSS/#257-#260 - Sheriff's Office/#264-Board of Commissioners.
4. Motion to permit the Wayne County Public Library to apply for the Digital Champion Grant.
Attached hereto as Attachment A.
5. Motion to Approve the Preliminary Plat for Derby Ridge Subdivision.
Attached hereto as Attachment B.
6. Motion to Approve the Final Plat for Edgerton Farms Estates Section 4.
Attached hereto as Attachment C.
7. Motion to Adopt Resolution #2024-1: A Resolution of the Board of Commissioners of Wayne County to Accept the ARPA Grant Funding of \$182,000 for the Pre-construction Planning for the Wayne Executive Jetport Pump Station and Sanitary Sewer Main Improvements.
Attached hereto as Attachment D.

8. Motion to Adopt Resolution for Building Reuse Grant for Project Grain, and appropriate budget amendment.
Attached hereto as Attachment E.
9. Motion to permit Wayne County Human Resources Department to apply for the YouthBuild grant offered by the US Department of Labor.
Attached hereto as Attachment F.
10. Motion to Approve Phase Three of the 24/72 Transition Schedule for EMS, contingent upon management approval.
Attached hereto as Attachment G.

NEW BUSINESS

11. Discussion and Motion to Approve Budget Retreat Date(s).
Upon motion of Vice-Chairman George Wayne Aycock, Jr., the Board of Commissioners unanimously approved January 31, 2024, and February 1, 2024, as the Budget Retreat dates.
12. **RECESS THE WAYNE COUNTY BOARD OF COMMISSIONERS MEETING**
At 9:09 a.m., Chairman Chris Gurley Recessed the Wayne County Board of Commissioners meeting.
13. **CONVENE THE WAYNE COUNTY BOARD OF ADJUSTMENT**
At 9:09 a.m., Chairman Chris Gurley Convened the Wayne County Board of Adjustment.
14. Motion to Establish a Board of Adjustment Public Hearing on February 6, 2024, at 9:30 a.m. to receive public comment on the Special Use Permit for Hackberry Solar Energy Facility.
Upon motion of Commissioner Joe C. Daughtery, the Board of Commissioners unanimously approved to Establish a Board of Adjustment Public Hearing on February 6, 2024, at 9:30 a.m., to receive public comment on the Special Use Permit for Hackberry Solar Energy Facility, attached hereto as Attachment H.
15. **RECESS THE WAYNE COUNTY BOARD OF ADJUSTMENT**
At 9:10 a.m., Chairman Chris Gurley Recessed the Wayne County Board of Adjustment.
16. **RECONVENE THE WAYNE COUNTY BOARD OF COMMISSIONERS MEETING**
At 9:10 a.m., Chairman Chris Gurley Reconvened the Wayne County Board of Commissioners meeting.

PUBLIC COMMENTS

No one signed up for public comments.

COUNTY MANAGER'S REPORT

County Manager Chip Crumpler wished everyone a Happy New Year. He said the budget process had begun, and the budget agenda would be published soon. Mr. Crumpler cautioned everyone that COVID is still out there and he has now had it four times.

BOARD OF COMMISSIONERS COMMITTEE REPORTS

Commissioner Joe C. Daughtery wished everyone a Happy New Year and extended his condolences to Commissioner Williams for the recent passing of his father.

Vice-Chairman George Wayne Aycock, Jr., extended his condolences to Commissioner Williams for the recent passing of his father. He wished everyone a Happy New Year, discussed sickness and the challenges of 2023, and said the #1 goal of the Commissioners is to provide services to the citizens of Wayne County.

Commissioner Barbara Aycock extended her condolences to Commissioner Williams for the recent passing of his father. She wished everyone a Happy New Year and asked everyone to pray for our nation.

Commissioner Bevan Foster wished everyone a Happy New Year and warned that COVID is still out there.

Chairman Chris Gurley extended his condolences to Commissioner Williams for the recent passing of his father. He wished everyone a Happy New Year, spoke of 2024 being an election year, and discussed an event he attended for grilling and cook-offs. He said Wayne County employee Jason Baker participated and was invited to the national competition.

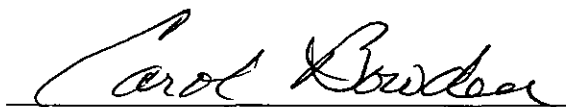
CLOSED SESSION

At 8:30 a.m., upon motion of Commissioner Barbara Aycock, the Board of Commissioners unanimously declared itself in closed session to consult with an attorney employed or retained by the public body in order to preserve the attorney-client privilege between the attorney and the public body, which privilege is hereby acknowledged.

At 8:47 a.m., upon motion of Vice-Chairman George Wayne Aycock, Jr., the Board of Commissioners unanimously declared itself in regular session.

ADJOURNMENT

At 9:20 a.m., Chairman Chris Gurley adjourned the meeting of the Wayne County Board of Commissioners.



Carol Bowden, Clerk to the Board

GRANT REQUEST FORM

DIVISION/OFFICE: Wayne County Public Library

PRINCIPAL INVESTIGATOR(S): Donna Phillips, Maegen Wilson, & Anna Snyder

GRANT TYPE: ☐ FEDERAL ☒ STATE ☐ FOUNDATION ☐ OTHER

FUNDING AGENCY/OFFICE: North Carolina Department of Information Technology, Office of Digital Equity and Literacy (These are Federal Funds administered through the State of NC)

GRANT PROGRAM NAME: Digital Champion Grant

PROPOSAL DUE DATE: 1/22/2023

TOTAL FUNDING REQUEST: \$400,000

PROPOSED PROJECT NAME: Digital Equity: A Pathway to Youth Success

PROJECT LENGTH: 2 years

MATCH REQUIRED/PERCENTAGE: ☒ NO ☐ YES Choose an item. %

MATCH TYPE: ☐ CASH ☐ IN-KIND ☐ BOTH

STAFF TIME/RESOURCES REQUIRED: Library administrative staff will work with Tim Dusek to prepare the grant application. Grant funds will be requested to support a project manager.

DESCRIPTION OF PROPOSED GRANT PROJECT: North Carolina's Digital Champion Grant will help North Carolinians afford high-speed internet, obtain digital devices and get access to digital literacy courses to safely and effectively participate in today's digital economy. Grantees who have a proven record of positively impacting target populations identified in the Digital Equity Act, including low-income households, individuals who primarily reside in rural areas, older Americans/aging residents, incarcerated and/or second chance citizens/reentry/justice involved, veterans, individuals with disabilities, including individuals with a language barrier (including individuals who are English learners or whose first language is not English and/or individuals who have low levels of literacy), and individuals who are members of a racial or ethnic minority group, are encouraged to apply. Each applicant may apply for up to \$400,000

per county served. This grant is made possible by federal American Rescue Plan Act funds with the goal of expanding digital equity programming and advancing digital inclusion. The funding term start date will be outlined in the signed contract between the funding recipients and the N.C. Department of Information Technology and will run through December 31, 2026.

PROPOSED PROJECT GOALS: The Library seeks permission to apply for the Digital Champions Grant. Our proposed project’s goal will be to build upon the work the library and its collaborative community partners are engaged in through the Our State, Our Work program. Our State, Our Work, is a two-year collaborative learning model coordinated by NC IMPACT and is the first program of UNC-Chapel Hill’s Carolina Across 100 Initiative. “Our State, Our Work” community collaboratives are serving as statewide leaders in implementing positive strategies to significantly expand and deepen education and employment pathways for Opportunity Youth. These collaboratives are piloting practices that will benefit communities across North Carolina. Library administration is proud of the fact that our library system is the only library in NC to have applied to participate in this project and we believe the leadership role the library assumed with Wayne County’s community collaborative, Team 11- Wayne County Pathfinders, along with the capacity building support we received from UNC-Chapel Hill uniquely qualifies us to submit this grant request.

SUBMITTED BY: Tim Dusek, Grant Writer
INITIAL/DATE: _____

REVIEWED BY: Berry Gray, Planning Director
INITIAL/DATE: _____

Chip Crumpler, County Manager

APPROVED ✓ **DENIED** _____

INITIAL/DATE: CC. 1/2/2024

MEMORANDUM

To: Wayne County Board of Commissioners

From: Berry Gray, Planning Director

Date: December 14, 2023

Re: Subdivision Preliminary Plat Approval

Item: Derby Ridge, Preliminary
Owner/Developer: CE2, LLC
Engineer: Jones Consulting Engineers, PA
Stoney Creek Township, Stoney Creek Church Road (SR 1547)
Lots 1-126 (126 lots)

Discussion: Sec 70-74 of the Wayne County Subdivision Ordinance requires that for every major subdivision within its territorial jurisdiction which does not qualify for the abbreviated minor subdivision procedure, the developer shall submit a preliminary plat which shall be reviewed and approved by the Board of Commissioners before any construction or installation of improvements may begin.

The Derby Ridge preliminary consists of 126 residential building lots. The plat shows two road connections onto Stoney Creek Church Road with two interconnecting streets and five cul de sac streets. Derby Ridge will be built on 88.69 acres on Stoney Creek Church Road, 1.0 mile east of its intersection with NC Hwy 111 N. There are mapped flood zones at the back of the tract but they will be incorporated into larger lots with enough buildable land outside the flood hazard area for a residence. The property is not located within a zoning area.

The average lot size is 27,455 sf or 0.63 acres. There are 7,454 linear feet (1.4 miles) of street required to be installed per the NC Dept. Of Transportation subdivision street requirements. Building lots will utilize public water and onsite sewer. The subdivision must meet the requirements for stormwater.

The property is shown within the Urban Transition area in the Wayne County Comprehensive Land Use Plan.

Urban Transition Areas include those parts of the planning area that are not currently urban in character but that, during the next two decades, are likely to reach a level of development requiring urban services. These areas may have some services already in place including, particularly, centralized water and sewer. Other services, including stormwater management, are likely to be in place here within twenty years. Urban Transition Areas should be a secondary area for planning, programming and providing public urban services. Those parts of the Urban Transition Area that have good soils and drainage, are not in the floodplain, have road capacity available, and have sewer service nearby should generally be developed at 3 or more units per acre. Land areas constrained by poor soils and/or lack of topography and

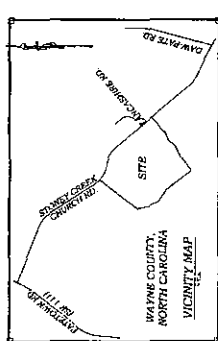
resulting flooding problems should generally be developed at lower densities.

The property is located within the following service areas:

Schools – Charles B Aycock HS, Norwayne Middle, Tommys Road Elem
Water – Belfast-Patetown Sanitary District
Fire – Patetown Fire Department
EMS – Station 5
Transportation – MPO
Water Supply Watershed – No
Voluntary Agriculture District – No
Wetlands – Yes
Board of Commissioners District – 5

Recommendation: The Wayne County Planning Board recommends that the preliminary be approved.

PRELIMINARY PLAT
DERBY RIDGE
SUBDIVISION
STONE CREEK TOWNSHIP,
WAYNE COUNTY, N.C.

[illegible]

UNIMPMPTVIOUS AREA	AREA (ACRES)
1ST STREET PARKING AREA	3.90
2ND LOT @ 2000 S.F. HOUSE & DRIVE	4.48
TOTAL UNIMPMPTVIOUS AREA/US	12.58
TOTAL TRACT ACREAGE	48.89
TOTAL PERCENT UNIMPMPTVIOUS	14.1%
15% MAXIMUM BEING REQUIRED	

INDUSTRY REPORT CARD - 34 COUNTRIES	TYPE OF ANALYSIS	AREA COVERED	IN EXPORT COEFF. RESPECTIVITY	IN EXPORT FROM 1970 TO 1979
1. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	1.1. EXPORTS	0.50	0.6	0.00
2. MANUFACTURING INDUSTRIES (AGRICULTURAL)	2.1. EXPORTS	0.50	1.2	0.00
3. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	3.1. EXPORTS	0.50	1.2	0.00
4. MANUFACTURING INDUSTRIES (AGRICULTURAL)	4.1. EXPORTS	0.50	1.2	0.00
5. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	5.1. EXPORTS	0.50	1.2	0.00
6. MANUFACTURING INDUSTRIES (AGRICULTURAL)	6.1. EXPORTS	0.50	1.2	0.00
7. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	7.1. EXPORTS	0.50	1.2	0.00
8. MANUFACTURING INDUSTRIES (AGRICULTURAL)	8.1. EXPORTS	0.50	1.2	0.00
9. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	9.1. EXPORTS	0.50	1.2	0.00
10. MANUFACTURING INDUSTRIES (AGRICULTURAL)	10.1. EXPORTS	0.50	1.2	0.00
11. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	11.1. EXPORTS	0.50	1.2	0.00
12. MANUFACTURING INDUSTRIES (AGRICULTURAL)	12.1. EXPORTS	0.50	1.2	0.00
13. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	13.1. EXPORTS	0.50	1.2	0.00
14. MANUFACTURING INDUSTRIES (AGRICULTURAL)	14.1. EXPORTS	0.50	1.2	0.00
15. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	15.1. EXPORTS	0.50	1.2	0.00
16. MANUFACTURING INDUSTRIES (AGRICULTURAL)	16.1. EXPORTS	0.50	1.2	0.00
17. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	17.1. EXPORTS	0.50	1.2	0.00
18. MANUFACTURING INDUSTRIES (AGRICULTURAL)	18.1. EXPORTS	0.50	1.2	0.00
19. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	19.1. EXPORTS	0.50	1.2	0.00
20. MANUFACTURING INDUSTRIES (AGRICULTURAL)	20.1. EXPORTS	0.50	1.2	0.00
21. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	21.1. EXPORTS	0.50	1.2	0.00
22. MANUFACTURING INDUSTRIES (AGRICULTURAL)	22.1. EXPORTS	0.50	1.2	0.00
23. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	23.1. EXPORTS	0.50	1.2	0.00
24. MANUFACTURING INDUSTRIES (AGRICULTURAL)	24.1. EXPORTS	0.50	1.2	0.00
25. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	25.1. EXPORTS	0.50	1.2	0.00
26. MANUFACTURING INDUSTRIES (AGRICULTURAL)	26.1. EXPORTS	0.50	1.2	0.00
27. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	27.1. EXPORTS	0.50	1.2	0.00
28. MANUFACTURING INDUSTRIES (AGRICULTURAL)	28.1. EXPORTS	0.50	1.2	0.00
29. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	29.1. EXPORTS	0.50	1.2	0.00
30. MANUFACTURING INDUSTRIES (AGRICULTURAL)	30.1. EXPORTS	0.50	1.2	0.00
31. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	31.1. EXPORTS	0.50	1.2	0.00
32. MANUFACTURING INDUSTRIES (AGRICULTURAL)	32.1. EXPORTS	0.50	1.2	0.00
33. MANUFACTURING INDUSTRIES (NON-AGRICULTURAL)	33.1. EXPORTS	0.50	1.2	0.00
34. MANUFACTURING INDUSTRIES (AGRICULTURAL)	34.1. EXPORTS	0.50	1.2	0.00
TOTAL		0.50	1.2	0.00

[illegible]

WANK
BINES CONSULTING ENGINEERS, P.A.
DERBY RIDGE SUBDIVISION
PRELIMINARY PLAN
NOT FOR RECORDATION, CONVEYANCES OR SALES
CDE, LLC
Office Box 10882
Charlotte, North Carolina 27532
704-221-5232, LLC # C-3065

23074	1" = 100'	11/20/2023	1 of 1
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MEMORANDUM

To: Wayne County Board of Commissioners

From: Berry Gray, Planning Director

Date: December 14, 2023

Re: Final Subdivision Plat Approval

Item: Edgerton Farms Estates Section 4, Final

Owner: Perry Real Estate Group LLC.

Developer: Perry Real Estate Group LLC

Surveyor/Engineer: Willie G. Miller Jr/Bryan K Jones Consulting Engineers, PA

Buck Swamp Township, Fields Road (SR 1336)

Lots 36 – 91 (56 lots)

Discussion: Edgerton Farms Estates Section 4 consists of 56 lots on 45 acres. The subdivision is located on Fields Road, 2/5th of a mile south of Nahunta Road. The property is not located within a zoning area and the average lot size is 23,214 sf. Building lots will utilize public water and onsite septic. The property is shown within the Rural area on the Wayne County Growth Strategies Map. Improvements are complete and a NCDOT Built to Standards letter has been submitted to the County. Until the streets are accepted onto the State's secondary road system, the developer has signed a statement regarding the maintenance of the streets and right of ways.

The property is located within the following service areas:

Schools – C.B. Aycock HS, Norwayne Middle, Northwest Elem

Water – Northwestern Wayne Sanitary District

Fire – Nahunta Fire Department

EMS – Station 7

Transportation – RPO

Water Supply Watershed – No

Voluntary Agriculture District – No

Wetlands – Yes

Board of Commissioners District – 1

Recommendation: The Wayne County Planning Board recommends approval of the final plat.

ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

SHADIESKAF

Director



NORTH CAROLINA
Environmental Quality

November 14, 2023

Mr. Chip Crumpler, County Manager
Wayne County
224 East Walnut Street
Goldsboro, North Carolina 27530

Subject: Preliminary Project-Scope Approval &
Transmittal of Offer-and-Acceptance Funding Award
Pre-Construction Planning Grant
Executive Jetport Pump Station &
Sanitary Sewer Main Improvements
DWI Project No.: SRP-W-ARP-0305

Dear Mr. Crumpler:

The Division of Water Infrastructure (**Division**) has reviewed the recently submitted preliminary project scope information, and we have no objections concerning the document(s) provided. Therefore, we are pleased to inform you the preliminary scoping document is approved herein.

In addition, with this document's approval, the above-referenced project, thusly, is now authorized to receive its intended *American Rescue Plan Act (ARPA)* funding, provided from the State Fiscal Recovery Fund (SFRF), as established in Session Law (S.L.) 2021-180 and S.L. 2022-74; please note projects funded from the SFRF must meet applicable federal law and guidance for the ARPA funds. *The ARPA grant funding will cover one hundred percent (100%) of eligible, pre-construction project planning-and-design costs from the S.L. 2021-180 appropriation.*

Accordingly, enclosed are two (2) copies of an "offer-and-acceptance" document extending **Wayne County** a **funding award** in the total amount of **\$182,000**. This award is made by the Division subject to the "Assurances" and "Conditions" set forth in the enclosed offer-and-acceptance document.

Upon your acceptance, please submit the following items to the Division, and addressed directly to the attention of **Pam Whitley** (pam.whitley@deq.nc.gov), Division of Water Infrastructure, 1633 Mail Service Center, Raleigh NC 27699-1633:

1. A resolution (sample copy attached), adopted by your governing body, accepting the ARPA grant offer, and making the applicable assurances contained therein;
2. One (1) original copy of the "offer-and-acceptance" document, executed by the designated Authorized Representative (AR) for the project, along with the signed "Standard Conditions" and "Assurances". Please retain the fully executed, second original copy for your files; and
3. The Division's *Professional Engineering Services Procurement* Certification, also to be completed by the designated AR for the project.



North Carolina Department of Environmental Quality | Division of Water Infrastructure
512 N. Salisbury Street | 1633 Mail Service Center | Raleigh, North Carolina 27699-1633
919.707.9160

Mr. Crumpler
Wayne County
14-Nov-23
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4. Sales Tax Certification, if applicable (attached).

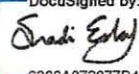
Reimbursement requests must be prepared using our standardized reimbursement-request form. A reference copy of this form has been enclosed for your convenience. You are free to reproduce this form should additional copies be needed. Reimbursement requests shall be forwarded to a DWI Accountant at DWI.Businessoffice@deq.nc.gov. *Once work referenced within the approved scoping document commences, an updated, fully-completed, current and signed/dated copy of our Reimbursement Request Form must be submitted with all reimbursement requests.*

Finally, regarding reimbursements, please note the following:

Disbursement is based on the progress made on the project. To obtain payment, you must document the expenditures for which the payment is requested. Final disbursement (10%) will be made only after receiving a final report documenting the completion and findings of the study, as approved herein. **All costs incurred prior to March 3, 2021, are not eligible for ARPA funds, and all ARPA funds must be expended prior to December 31, 2026.**

On behalf of the Department of Environmental Quality, I am pleased to make this offer of ARPA funds, made available by the SFRF. If you have any questions, please contact Doug Newhouse either by telephone at 919.707.9053 or by e-mail at doug.newhouse@deq.nc.gov.

Sincerely,

DocuSigned by:

6300A872077B4C5...

Shadi Eskaf, Director
Division of Water Infrastructure, NCDEQ

Enclosures: ARPA Grant Offer-and-Acceptance Document (2 copies)
Reimbursement-Request Form
Resolution-to-Accept ARPA Grant Offer (suggested format)
Professional Engineering Services Procurement Certification
Sales-Tax Reimbursement Certification Form

cc: Mr. Chip Crumpler, Wayne County (e-mail: chip.crumpler@waynegov.com)
Anita E. Robertson, P.E., WK Dickson & Company, Inc., Raleigh NC (e-mail: arobertson@wkdictson.com)
Trupti Desai, P.E. (DWI, via e-mail)
Antonio V. Evans, P.E. (DWI, via e-mail)
Doug Newhouse (DWI, via e-mail)
Mark Hubbard, P.E. (DWI, via e-mail)
Pam Whitley (DWI, via e-mail)
Jennifer House (DWI, via e-mail)
DWI Administrative Unit (DWI, via e-mail)
ARPA File (**EREID – ERAL**)
DWI Agreement ID: 2000067382

**NORTH CAROLINA
WAYNE COUNTY**

**RESOLUTION #2024-1: RESOLUTION OF THE BOARD OF COMMISSIONERS OF THE COUNTY OF
WAYNE**

WHEREAS, the American Rescue Plan Act (ARPA), is funded from the State Fiscal Recovery Fund, was established in Session Law (S.L.) 2021-180 to assist eligible units of local government with meeting their drinking water and/or wastewater needs; and

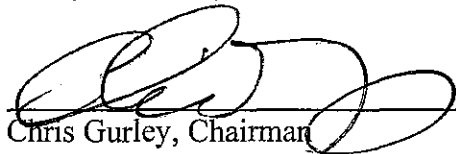
WHEREAS, the North Carolina Department of Environmental Quality has offered Pre-construction Planning Grant ARPA funding in the amount of \$182,000 to perform the work detailed in the submitted application; and

WHEREAS, the Wayne County Board of Commissioners intends to perform said project in accordance with the agreed scope of work,

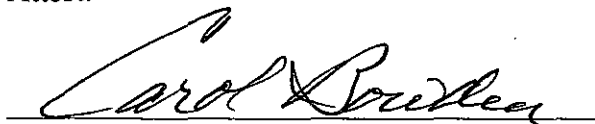
**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE
COUNTY OF WAYNE:**

1. That the County of Wayne does hereby accept the ARPA grant offer of \$182,000; and
2. That the County of Wayne does hereby give assurance to the North Carolina Department of Environmental Quality that any *Conditions* or *Assurances* contained in the *Funding Offer and Acceptance* (award offer) will be adhered to; has substantially complied, or will substantially comply, with all federal, State of North Carolina (State), and local laws, rules, regulations, and ordinances applicable to the project; and to federal and State grants and loans pertaining thereto; and
3. That County Manager Chip Crumpler, and successors so titled, is hereby authorized and directed to furnish such information as the appropriate State agency may request in connection with this project; to make the assurances as contained above; and to execute such other documents as may be required by the North Carolina Department of Environmental Quality, Division of Water Infrastructure.

Adopted this the 2nd day of January, 2024, at Wayne County, North Carolina.


Chris Gurley, Chairman
Wayne County Board of Commissioners

Attest:


Carol Bowden
Clerk to the Board



STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER INFRASTRUCTURE

Funding Offer and Acceptance – Pre-Construction Planning Grant

Legal Name and Address of Award Recipient (i.e., Applicant):

Wayne County
224 East Walnut Street
Goldsboro NC 27530

Project Number:

SRP-W-ARP-0305

UEID#:

DACFHCLQKMS1

Assistance Listing Number:

21.027

Funding Program:

Drinking Water	☐	Additional Amount for Funding Increases	Previous Total	Total Offered
Stormwater	☐			
Wastewater	☒			
American Rescue Plan Act (ARPA) Grant	☒	--	--	\$182,000

Project Description:

Executive Jetport Pump Station &
Sanitary Sewer Main Improvements.

Total Financial Assistance Offer:

\$182,000

Total Project Cost:

\$1,500,000

Estimated Closing Fee:

\$ - 0 -

Pursuant to North Carolina General Statute 159G:

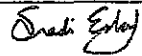
- The Applicant is eligible under Federal and State law;
- The Project is eligible under Federal and State law; and
- The Project has been approved by the Department of Environmental Quality as having sufficient priority to receive financial assistance.

The Department of Environmental Quality, acting on behalf of the State of North Carolina, hereby offers the financial assistance described in this document.

For The State of North Carolina:

Shadi Eskaf, Director, Division of Water Infrastructure
North Carolina Department of Environmental Quality

DocuSigned by:



11/22/2023

Signature

Date

On Behalf of:

Wayne County

Name of Representative in Resolution:

CHIP CRUMPLER

Title (Type or Print):

I, the undersigned, being duly authorized to take such action, as evidenced by the attached CERTIFIED COPY OF AUTHORIZATION BY THE APPLICANT'S GOVERNING BODY, do hereby accept this Financial Award Offer and will comply with the Assurances and the Standard Conditions.

Signature

Date

1/2/24

STANDARD CONDITIONS

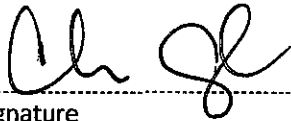
1. Acceptance of this funding offer does not exempt the Applicant from complying with requirements stated in the U.S. Treasury's Final Rule for the Coronavirus State and Local Fiscal Recovery Funds (SLFRF) and the SLFRF Compliance and Reporting Guidance (not explicitly referred to in this document) and any future requirements implemented by the U.S. Treasury.
2. Applicants shall comply fully with Subpart C of 2 CFR Part 180 entitled, "Responsibilities of Participants Regarding Transactions Doing Business with Other Persons," as implemented and supplemented by 2 CFR Part 1532. The Applicant is responsible for ensuring that any lower-tier-covered transaction, as described in Subpart B of 2 CFR Part 180, entitled "Covered Transactions," includes a term or condition requiring compliance with Subpart C. The Applicant is responsible for further requiring the inclusion of a similar term or condition in any subsequent, lower-tier-covered transactions. Applicants may access suspension and debarment information at: <http://www.sam.gov>. This system allows applicants the means to perform searches determining whether an entity or individual is excluded from receiving federal assistance.
3. The Uniform Guidance 2 CFR 200.317 through 2 CFR 200.327 gives minimum requirements for procurement, with 2 CFR 200.319(b) addressing engineering services procurement guidelines. ARPA-funded projects also must adhere to North Carolina (NC) State law, specifically NC General Statute (NCGS) §143-64.31, Article 3D, Procurement of Architectural, Engineering, and Surveying (A/E) Services. NCGS §143-64.32 cannot be used to exempt funding recipients (i.e., applicants) from a qualification-based selection for A/E. The State provides applicable certification forms that must be completed prior to receiving funds for any engineering services covered under this funding offer.
4. Local government units designated as "distressed" must complete the associated requirements of NCGS §159G-45(b).
5. Funds made available by the ARPA to the entity accepting the funds in this document (i.e., the Applicant) must only cover eligible costs incurred on or after March 3, 2021. Funds that are not disbursed by December 31st, 2026, will no longer be available for the project. Unused federal funds will revert from the State of North Carolina to the U.S. Treasury.

ASSURANCES

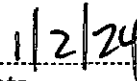
1. The Applicant intends to complete the project in accordance with the Application approved for financial assistance by the Division of Water Infrastructure.
2. The Applicant is responsible for paying for those costs ineligible for ARPA funding including, but not limited to, any amount in excess of the amount of this funding offer. The Applicant agrees to establish and to maintain a financial management system that adequately accounts for revenues and expenditures. Adequate accounting and fiscal records shall be maintained during the completion of the project, and these records shall be retained and made available for a period of at least three (3) years following completion of the project.
3. All ARPA funds shall be expended solely for carrying out the approved project, and an audit shall be performed in accordance with NCGS §159-34. Partial disbursements on this Award will be made promptly, upon request, subject to adequate documentation of incurred eligible costs, and subject to the Applicant's compliance with the Standard Conditions of this Award. The Applicant agrees to make prompt payment to its professional services' provider(s), and to retain only such amount(s) as allowed by NCGS.
4. The Applicant shall expend all of the requisitioned funds for the purpose of paying the costs of the project within three (3) banking days following the receipt of the funds from the State.
5. Funds must be spent fully (i.e., fully reimbursed to the Applicant) by December 31st, 2026.

Acknowledgement of Standard Conditions and Assurances

The Applicant hereby gives assurance to the Department of Environmental Quality that the declarations, assurances, representations, and statements made by the Applicant in the Application, and all documents, amendments, and communications filed with the Department of Environmental Quality by the Applicant in support of its request for financial assistance, shall be fulfilled.



Signature



Date

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER INFRASTRUCTURE

Funding Offer and Acceptance – Pre-Construction Planning Grant

Legal Name and Address of Award Recipient (i.e., Applicant): Wayne County
224 East Walnut Street
Goldsboro NC 27530

Project Number: SRP-W-ARP-0305
UEID#: DACFHCLQKMS1
Assistance Listing Number: 21.027

Funding Program:

Drinking Water	☐	Additional Amount for Funding Increases	Previous Total	Total Offered
Stormwater	☐			
Wastewater	☒			
American Rescue Plan Act (ARPA) Grant	☒	--	--	\$182,000

Project Description:

Executive Jetport Pump Station &
Sanitary Sewer Main Improvements.

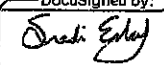
Total Financial Assistance Offer: \$182,000
Total Project Cost: \$1,500,000
Estimated Closing Fee: \$ - 0 -

Pursuant to North Carolina General Statute 159G:

- The Applicant is eligible under Federal and State law;
- The Project is eligible under Federal and State law; and
- The Project has been approved by the Department of Environmental Quality as having sufficient priority to receive financial assistance.

The Department of Environmental Quality, acting on behalf of the State of North Carolina, hereby offers the financial assistance described in this document.

For The State of North Carolina: Shadi Eskaf, Director, Division of Water Infrastructure
North Carolina Department of Environmental Quality

DocuSigned by:

Signature 6300A872077B4C5... 11/22/2023
Date

On Behalf of:

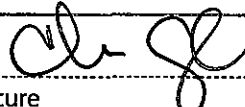
Name of Representative in Resolution:

Title (Type or Print):

Wayne County

Chip Crumpler

I, the undersigned, being duly authorized to take such action, as evidenced by the attached CERTIFIED COPY OF AUTHORIZATION BY THE APPLICANT'S GOVERNING BODY, do hereby accept this Financial Award Offer and will comply with the Assurances and the Standard Conditions.


Signature 1/2/24
Date

STANDARD CONDITIONS

1. Acceptance of this funding offer does not exempt the Applicant from complying with requirements stated in the U.S. Treasury's Final Rule for the Coronavirus State and Local Fiscal Recovery Funds (SLFRF) and the SLFRF Compliance and Reporting Guidance (not explicitly referred to in this document) and any future requirements implemented by the U.S. Treasury.
2. Applicants shall comply fully with Subpart C of 2 CFR Part 180 entitled, "Responsibilities of Participants Regarding Transactions Doing Business with Other Persons," as implemented and supplemented by 2 CFR Part 1532. The Applicant is responsible for ensuring that any lower-tier-covered transaction, as described in Subpart B of 2 CFR Part 180, entitled "Covered Transactions," includes a term or condition requiring compliance with Subpart C. The Applicant is responsible for further requiring the inclusion of a similar term or condition in any subsequent, lower-tier-covered transactions. Applicants may access suspension and debarment information at: <http://www.sam.gov>. This system allows applicants the means to perform searches determining whether an entity or individual is excluded from receiving federal assistance.
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ASSURANCES

1. The Applicant intends to complete the project in accordance with the Application approved for financial assistance by the Division of Water Infrastructure.
2. The Applicant is responsible for paying for those costs ineligible for ARPA funding including, but not limited to, any amount in excess of the amount of this funding offer. The Applicant agrees to establish and to maintain a financial management system that adequately accounts for revenues and expenditures. Adequate accounting and fiscal records shall be maintained during the completion of the project, and these records shall be retained and made available for a period of at least three (3) years following completion of the project.
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4. The Applicant shall expend all of the requisitioned funds for the purpose of paying the costs of the project within three (3) banking days following the receipt of the funds from the State.
5. Funds must be spent fully (i.e., fully reimbursed to the Applicant) by December 31st, 2026.

Acknowledgement of Standard Conditions and Assurances

The Applicant hereby gives assurance to the Department of Environmental Quality that the declarations, assurances, representations, and statements made by the Applicant in the Application, and all documents, amendments, and communications filed with the Department of Environmental Quality by the Applicant in support of its request for financial assistance, shall be fulfilled.

Signature

Date

1/2/24

SALES-TAX REIMBURSEMENT CERTIFICATION FORM

(FOR FUNDING PROGRAMS IN THE DIVISION OF WATER INFRASTRUCTURE)

Applicant: County of Wayne

DWI Project Number: SRP-W-ARP-0305

☐ Check If Applicant is not a unit of government under North Carolina (NC) law

If Applicant noted above is a Unit of Government in North Carolina, check the applicable box below.

Sales Tax **IS** deducted in this scenario. Please show this on the disbursement requests.

☒ The project includes sales taxes related to the purchase of equipment or the provision of applicable services, and the unit of government will request reimbursement from the NC Department of Revenue (DOR).

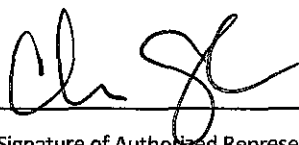
Sales Tax **IS NOT** deducted in either of these scenarios.

☐ The project includes sales taxes related to the purchase of equipment or the provision of applicable services, and the unit of government will not request reimbursement from the DOR.

☐ The project will not include sales taxes.

CHIP CRUMPLER, COUNTY MANAGER

(Printed Name and Title of Authorized Representative)



(Signature of Authorized Representative)

1/2/24

(Date)

When completed, submit this to the Division either:

Via hardcopy: NC Dept. of Environmental Quality
Division of Water Infrastructure
ATTN: Pam Whitley – Grant Management Unit
1633 Mail Service Center
Raleigh, NC 27699-1633

OR

Via e-mail: pam.whitley@deq.nc.gov

REIMBURSEMENT REQUEST FORM**NC Division of Water Infrastructure**

Funding Recipient: _____
 DWI Project No. _____

Payment No. _____ Page No. _____
 Period Covered From: _____ To: _____

CONSTRUCTION (Rename as appropriate)	Cumulative Cost to Date	Minus Ineligibles	Minus Overruns Not App'd By Change Order	Subtotal of Payable Cost	Minus Retainage on Payable Cost	Minus Cumulative Sales Tax	Other Adjustments (Other Funds e.g.)	Minus Previously Paid to Date	Requested For This Pay Request
Contract 1	\$1,200,000	(\$100,000)	(\$100,000)	\$1,000,000	(\$50,000)	(\$50,000)	(\$500,000)	(\$300,000)	\$100,000
Contract 2	\$505,000		(\$5,000)	\$500,000	(\$25,000)	(\$10,000)		(\$400,000)	\$65,000
Contract 3									
Contract 4									
Contract 5									
ENGINEERING (Rename as appropriate)	Cumulative Cost to Date						Other Adjustments (Other Funds e.g.)	Minus Previously Paid to Date	Requested For This Pay Request
Item 1	\$250,000							(\$250,000)	\$0
Item 2									
Item 3									
Item 4									
OTHER COSTS (Rename as Appropriate)	Cumulative Cost to Date						Other Adjustments (Other Funds e.g.)	Minus Previously Paid to Date	Requested For This Pay Request
Item 1									
Item 2									
Item 3									
PAY REQUEST TOTALS	Cumulative Cost to Date	Minus Ineligibles	Minus Overruns Not App'd By Change Order		Minus Retainage on Payable Cost	Minus Cumulative Sales Tax	Other Adjustments (Other Funds e.g.)	Minus Previously Paid to Date	Total Requested For This Pay Request
	\$1,955,000	(\$100,000)	(\$105,000)		(\$75,000)	(\$60,000)	(\$500,000)	(\$950,000)	\$165,000

Certification

- I certify that to the best of my knowledge and belief the billed costs or disbursements are in accordance with terms of the project and that this request represents the monies due which have not been previously received and that an inspection has been performed and all work is in accordance with the terms and conditions of the award.
 - For applicable SRF projects, the project remains in compliance with Davis-Bacon and American Iron and Steel conditions or is the process of remediating noncompliance.

Grant Percentage for SRF Projects:

%

You must check ONE of the boxes below or your payment will not be processed:

The funds requested above have already been paid to the respective vendors, consultants & contractors by the funding recipient ☐

OR

The funds requested above have not been paid to the respective vendors, consultants & contractors. ☐

Funds received from the State will be disbursed to these entities within three (3) banking days.

Type or Print Name and Title

Signature of Authorized Representative

Date

DWI comments

Instructions and notes on how to use this form

- Complete guidance for preparing reimbursements can be found in section G.2. of the North Carolina SRF Program Overview and Guidance that was included with your Funding offer (applicable to State grants and loans too).
- The form, as downloaded, is filled out with sample numbers. It is suggested that the sample be used as a reference (saved or printed).
- Please submit ONE COPY of this form and backup documents when requesting funds.
- Only the Authorized Representative can sign this form, unless declared otherwise in a resolution.
- Construction contract line item overruns and engineering contract overruns must have approved change orders or engineering amendments before those costs will be paid.

Rev 12/13/16

RESOLUTION

INTRODUCED BY: Chip Crumpler, County Manager

Date: 01//2024

SUBJECT AREA Economic Development

PRESENTED BY: Crumpler

RESOLUTION: Authorizing Wayne County to file formal application for up to \$500,000 from NC Department of Commerce Building Reuse for Project Grain

ACTION REQUESTED:

Authorizing Wayne County to file a formal application for the NC Department of Commerce Rural Center Building Reuse Grant Program for up to \$500,000 for business expansion related to Project Grain.

HISTORY/BACKGROUND:

NC Department of Commerce has authorized the awarding of grants from appropriated funds to aid eligible businesses in financing the costs of building renovations associated with an economic development project. Project Grain needs assistance in financing the renovations that may qualify for Rural Center funding.

EVALUATION:

Wayne County Board of Commissioners has previously indicated its desire to assist in economic development efforts within the county and wish to pursue formal application for NC Department of Commerce funding to benefit Project Grain and will invest a 5% match of the grant amount toward the proposed renovations toward the committed to the application. Wayne County certifies it will meet all statutory requirements of the program. The County Manager and designee, Mark Pope, are authorized to execute daily grant related documentation which includes the grant agreement, general correspondence between Wayne County and the proposed business and the funding agency. Any documentation, which reflects a change in the original scope of work and/or amendment related activities, must be brought before the Wayne County Commissioners for approval.

MANAGER'S RECOMMENDATION: ☒ Approve ☐ Deny**RESOLUTION: NOW THEREFORE BE IT RESOLVED:**

By the Wayne County Board of Commissioners, Authorizing Wayne County to file a formal application for the NC Department of Commerce Building Reuse Grant Program up to \$500,000 for business expansion related to Project Grain.

FUNDING SOURCE:**AMENDMENTS**MOVED: Barbara Aycock SECOND: N/A**APPROVED:****DENIED:****UNANIMOUS:**

Chris Gurley

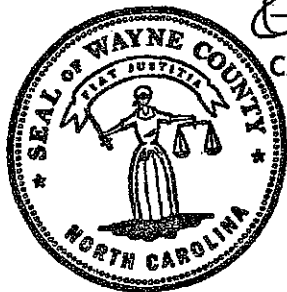
Joe Daughtery

Freeman Hardison Absent

Barbara Aycock

Wayne Aycock Jr.

Bevan Foster

Antonio Williams Absent

Chris Gurley

Date

1/2/24Carol Bracken1/2/2024**ATTEST****DATE**

GRANT REQUEST FORM

DIVISION/OFFICE: County of Wayne Human Resources Office

PRINCIPAL INVESTIGATOR(S): Sara Larson

GRANT TYPE: ☒ **FEDERAL** ☐ **STATE** ☐ **FOUNDATION** ☐ **OTHER**

FUNDING AGENCY/OFFICE: U.S. Department of Labor

GRANT PROGRAM NAME: YouthBuild

PROPOSAL DUE DATE: 2/1/2024

TOTAL FUNDING REQUEST: \$1.5 million

PROPOSED PROJECT NAME: Wayne County YouthBuild Consortium

PROJECT LENGTH: 3 years

MATCH REQUIRED/PERCENTAGE: ☐ **NO** ☒ **YES** **25%**

MATCH TYPE: ☐ **CASH** ☐ **IN-KIND** ☒ **BOTH**

DESCRIPTION OF PROPOSED GRANT PROJECT: The purpose of YouthBuild is to provide a pre-apprenticeship program that encompasses education, occupational skills training, leadership development, and high-quality post-program job placements. YouthBuild is a community-based alternative education program for opportunity youth between the ages of 16 and 24 who left high school prior to graduation and who also have other risk factors, including being justice-involved, aging out of foster care, disabilities, migrant farmworkers, experiencing housing instability, and other disadvantaged populations. The total length of the project is 40 months, including a 4-month planning period, 24 months of services, and 12 months of follow-up.

The academic component of YouthBuild assists youth who are significantly behind in basic skills development in obtaining a high school diploma or GED. The occupational skills training component prepares opportunity youth for apprenticeship and other career pathways and/or further education or training. It also supports the goal of increasing affordable housing within communities by teaching youth construction skills learned by building or significantly renovating homes for sale or rent to low-income families or transitional housing for homeless families or individuals. YouthBuild contains a Construction Plus model that allows applicants to train participants in an additional in-demand industry.

The Wayne County YouthBuild program will be a partnership with Wayne Community College, Eastern Carolina Workforce Development Board, Housing Authority of the City of Goldsboro, United Way of Wayne County, and Communities Supporting Schools of Wayne County. A portion of Wayne County's Summer Youth Employment Program resources would be directed to a year-round model over the 2-year service period to (1) provide employment to youth who are participating in the academic component of the program, and (2) pay a portion of the wages of youth in pre-apprenticeship programs. The remaining portion of wages for apprentices would be provided by grant funds. The Housing Authority will identify and provide worksites for homes or apartment units in need of construction or renovation. In addition to Construction Skills, the project will include Information Technology as the second career pathway. Wayne Community College will provide occupational skills training in both Construction Skills and Information Technology. The Eastern Carolina Workforce Development Board will co-enroll eligible participants in the WIOA Youth program and provide case management along with supportive services (child care, mileage, and tools/uniforms needed for training or employment). United Way of Wayne County will direct a portion of funding dedicated to education and basic needs to the program through the Community Healthcare Worker position to provide any needed wrap-around services. Communities Supporting Schools would identify and refer youth in their justice program for enrollment into YouthBuild.

PROPOSED PROJECT GOALS:

1. Provide academic training to youth entering the program.
2. Enroll two cohorts of 15-25 youth per year in Construction Skills and Information Technology training.
3. Provide employment to youth enrolled in the academic skills component.
4. Provide wages to participants enrolled in pre-apprenticeships.
5. Provide any needed wrap-around services to participants including mentoring, trauma-informed care, and personal counseling.
6. Provide job development services to youth.

STAFF TIME/RESOURCES REQUIRED:

Grant-funded positions include:

1. Project Director
2. Academic Skills Instructor (role could possibly be filled by partners)
3. Construction Skills Trainer
4. Information Technology Trainer
5. Case Manager/Job Developer (in coordination with WIOA Youth Program)

Wayne County match of \$150,000 for employment program and wages to apprentices

Wayne County HR Department:

1. Sara Larson – 15% of time dedicated to project
2. Kendall Harr – will serve as project director until position is filled, 15% of time after director is hired

Additional financial and in-kind match will be provided by project partners.

SUBMITTED BY: Tim Dusek, Grant Writer

INITIAL/DATE: TJD 12/22/2023

REVIEWED BY: Berry Gray, Planning Director

INITIAL/DATE: _____

Chip Crumpler, County Manager

APPROVED ✓ **DENIED** _____

INITIAL/DATE: C.C. 1/2/2024

WAYNE COUNTY

Emergency Medical Services

134 N. John St. Goldsboro, NC 27530 Phone: (919) 705-1851



December 19, 2023

To: Wayne County EMS Leadership

From: Dave Cuddeback

Subject: 24/72 Transition

In July of 2022 Wayne County EMS began a partial transition to a 24/72 (One 24-hour shift on, 72-hours off) schedule configuration. There were multiple reasons for this transition to include employee health, recruitment, and retention. Wayne County EMS is currently the only service in this vicinity that continues to staff using a Kelly Schedule (24-hours on, 24-hours off, 24 hours on, 24-hours off, 24-hours on, 4 days off) as it has been identified as creating a significant burn out rate and is very unattractive to new candidates.

With the approval of the County Manager, Finance Department and the County Commissioners Wayne County EMS began the transition with 2 stations (Medic 6 and Medic 8) on July 1, 2022, Phase two added a third station (Medic 4) on July 1, 2023. Phase three will include a fourth station (Medic 7) and a supervisor to lead the seventh shift (A,B,C,D,E,F,G), this position has been vacant since the transition in 2022. The following represents the cost for phase three.

Position	Salary (Base Pay)	Hourly	Kelly OT/month	24/72 OT/month	Difference
Supervisor	\$61,447.00	\$29.54	\$3,072.16 (104hrs.)	\$708.96 (24 hrs.)	\$2363.20
Paramedic	\$44,968.00	\$21.62	2,248.48	518.88	\$1,729.6
EMT	\$37,207.00	\$17.89	1,860.56	429.36	\$1,431.2
Total	\$143,622.00				\$5,527.00/Month

WAYNE COUNTY

Emergency Medical Services

134 N. John St. Goldsboro, NC 27530 Phone: (919) 705-1851



Address	Address
EMS Station 1	4205 Indian Springs Rd, Seven Springs, NC
EMS Station 2	884 Rosewood Rd, Goldsboro, NC 27530
EMS Station 3	3420 US 13 South, Goldsboro, NC 27530
EMS Station 4	134 N John St, Goldsboro, NC 27530
EMS Station 5	101 W. New Hope Rd, Goldsboro, NC 27530
EMS Station 6	615 N. Madison Ave, Goldsboro, NC 27530
EMS Station 7	1990 Nahunta Rd, Fremont NC
EMS Station 8	134 O'Berry Rd, Dudley, NC 28333
EMS Station 9	121 Northeast Church Rd Mount Olive, NC 28365
EMS Station 10	4682 N. 111 HWY, Pikeville, NC
EMS Station 11	210 Millers Chapel Road Goldsboro, NC

Please advise if you have any questions or concerns and thank you for the work that you do.

Respectfully

Dave Cuddeback

Dave Cuddeback



Dave Cuddeback
Paramedic/Director
Wayne County EMS
(919) 705-1851
David.cuddeback@waynegov.com

MEMORANDUM

To: Wayne County Board of Adjustment

From: Berry Gray, Planning Director

Date: December 6, 2023

Re: Special Use Permit for Proposed Solar Energy Facility Located in the Airspace Control Surface Area for Seymour Johnson AFB

Item: Hackberry Solar

Parcel ID#: 2567792359

Property Owner: Isaac Thomas Perkins, Connie Hudson Perkins

Developer: Celtis Energy Advisors

Surveyor/Engineer: Kimley Horn

Brogden Township

Old Grantham Road

Background: The Wayne County Planning Board approved the site plan for Hackberry Solar Energy Facility at its December 2023 meeting. The site plan was reviewed by staff and has been determined to meet the minimum requirements of the Wayne County Ordinance Regulating the Operation and Maintenance of Solar Energy Facilities.

Discussion: The proposed solar energy facility is a 1.99 MWac facility that will be located on 27 acres. The site is currently cleared woodland. It is located on Old Grantham Road ¼ of a mile west of Black Jack Church Road. The property is zoned Outer Horizontal Overlay District (OH). The site is located within the airspace control surface area for Seymour Johnson Air Force Base which requires Special Use approval by the Board of Adjustment. Surrounding land uses include a few residential lots, agriculture, vacant and wooded. The site plan meets the requirements as outlined in the Wayne County Ordinance Regulating Solar Energy Facilities for setbacks and fencing.

Seymour Johnson Air Force Base has reviewed the request and has no compatibility concerns as proposed.

The property is within the following service areas:

Fire –Thoroughfare

EMS – Station 3

Water Supply Watershed – Yes (Neuse River)

Voluntary Agriculture District – Within ½ mile

Wetlands – Yes but excluded from built area

Board of Commissioners District – 4

Section 5B of the Ordinance Regulating the Operation and Maintenance of Solar Energy Facilities in Wayne County, NC requires that solar facilities within the Airspace Control Surface Area be considered by the Wayne County Board of Adjustment as a Special Use.

Sections 54.1 and 54.2 of the Wayne County Zoning Ordinance, as it relates to special uses, states that permission may be granted for the establishment of special uses as shown in the district regulations if the Board of Adjustment finds from the evidence produced after a study of the complete records that:

- A. The proposed use does not affect adversely the general plans for physical development of the county and will not be contrary to the purposes stated in these regulations;
- B. The proposed use will not adversely affect the health and safety of the county residents and will not be detrimental to the use or development of adjacent properties or other neighborhood uses;
- C. The proposed use will not be affected adversely by existing uses, and will be placed on a lot of sufficient size to satisfy the space requirements of said use;
- D. The proposed use will not constitute a nuisance or hazard because of the number of persons who will use such a facility, the vehicular movement or the noise or fume generation; and
- E. The proposed use shall be subject to the minimum dimensional requirements of the district in which it is to be located, and shall conform to the off-street parking and loading regulations.

Additional Restrictions.

- A. The Board of Adjustment may issue a special use permit if its findings are favorable. As an additional safeguard, the board may impose or require as conditions such additional restrictions and standards as may be necessary to protect the health and safety of the community, and to protect the value and use of property in the general neighborhood.

Recommendation: The Wayne County Board of Adjustment should consider a Public Hearing to receive comments on the proposed Special Use Permit Request and then consider taking action on the Special Use request.

Supporting documents attached as evidence:

- Area Map
- Approved Site Plan
- Special Use Permit Application
- Findings of Fact Response
- Decommissioning Plan
- Comments from Seymour Johnson AFB

Hackberry Solar S-23-04



Areas in yellow denote solar facility location.

Hackberry Solar LLC Application Attachment 4

GIS PROPERTY LINE (TYP.)

DELINEATED
WETLAND (TYP.)

PROJECT
BOUNDARY

PARCEL GIS
PROPERTY LINE

MAXIMUM ARRAY
EXTENTS

50' RESIDENTIAL AREA SETBACK
FROM PROPERTY LINE (TYP.)

PROPOSED 25' VEGETATIVE
BUFFER TO BE
PLANTED FOR SCREENING

APPROXIMATE ACCESS
EASEMENT BOUNDARY

PROPOSED ACCESS
LOCATION

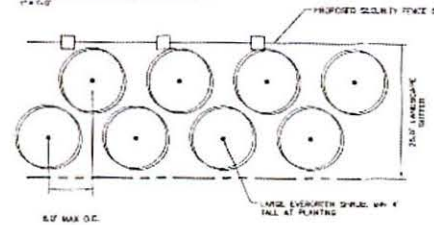
RESIDENTIAL
BUILDING (TYP.)

APPROXIMATE POINT
OF INTERCONNECTION

APPROXIMATE OVERHEAD
ELECTRIC LINE

60' RIGHT OF WAY
SETBACK

LANDSCAPE BUFFER YARD DETAIL



1. PLANTING AREAS WILL BE APPROXIMATELY 20' WIDE
2. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
3. TREES IN BUFFER MAY BE THINER BUT NOT LOWER THAN A HEIGHT OF 10 FEET
4. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
5. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
6. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
7. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
8. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
9. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE
10. BUFFER SPACING WILL BE APPROXIMATELY 10' WIDE



Attachment H Page 4

SITE DATA TABLE

PROJECT AREA	27.14 ACRES
PARCEL #	00000000
ZONING JURISDICTION	WALTON COUNTY
CURRENT ZONING	UNCLASSIFIED (WALTON COUNTY)
ADJACENT PROPERTY ZONING	UNCLASSIFIED (WALTON COUNTY)
CURRENT LAND USE	WALTON COUNTY
PROPOSED LAND USE	WALTON COUNTY
NEAREST HIGHWAY	PROPOSED ACCESS LOCATION TO OLD GRANTHAM RD
ADJACENT PROPERTY	ADJACENT PROPERTY
ADJACENT PROPERTY	ADJACENT PROPERTY

LEGEND

PROJECT BOUNDARY	PROJECT BOUNDARY
PARCEL GIS PROPERTY LINE	PARCEL GIS PROPERTY LINE
GIS PROPERTY LINE	GIS PROPERTY LINE
PERMITTER SETBACK	PERMITTER SETBACK
APPROXIMATE EASEMENT BOUNDARY	APPROXIMATE EASEMENT BOUNDARY
APPROXIMATE EASEMENT BOUNDARY	APPROXIMATE EASEMENT BOUNDARY
APPROXIMATE EASEMENT BOUNDARY	APPROXIMATE EASEMENT BOUNDARY
APPROXIMATE EASEMENT BOUNDARY	APPROXIMATE EASEMENT BOUNDARY
APPROXIMATE EASEMENT BOUNDARY	APPROXIMATE EASEMENT BOUNDARY
APPROXIMATE EASEMENT BOUNDARY	APPROXIMATE EASEMENT BOUNDARY

NOTES

1. PROJECT BOUNDARY SHOWN IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
2. PARCEL GIS BOUNDARY SHOWN IS BASED ON PUBLICLY AVAILABLE DATA FROM WALTON COUNTY GIS.
3. ALL EXISTING PERMITTING DATA IS BASED ON PUBLICLY AVAILABLE DATA FROM WALTON COUNTY GIS.
4. NEAREST PUBLIC ROAD IS SHOWN ON PUBLICLY AVAILABLE DATA FROM WALTON COUNTY GIS.
5. NEAREST PUBLIC ROAD IS SHOWN ON PUBLICLY AVAILABLE DATA FROM WALTON COUNTY GIS.
6. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
7. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
8. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
9. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
10. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
11. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
12. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
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16. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
17. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
18. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
19. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.
20. THE LOCATION OF PROPOSED ACCESS LOCATION IS BASED ON FIELD MEASUREMENTS FROM GROUND SURVEY DATA.



GRAPHIC SCALE IN FEET
0 62.5 125 250

Wayne County, North Carolina
Petition for Special Use Permit

Date 11/13/2023

Applicant Name: Hackberry Solar LLC Telephone (984) 439-5214
Address: 2544 Durham-Chapel Hill Boulevard, Durham, NC 27707

Property Owner Name: Isaac Thomas Perkins & Connie Hudson Perkins Telephone: (910) 284-3411
Address: P.O. Box 267, Rose Hill, NC 28458-0267

1. Property address or location: 1860 Old Grantham Road, Goldsboro, NC 27530 PIN: 2567792359

2. Zoning classification: Outer Horizontal Area (OH)

3. Requested special use permit: For the construction and operation of a 1.99 MW solar energy facility.

4. Property legal description (metes and bounds, or if subdivided, lot, block, subdivision plat book and page number): See attached.

5. Owner's intended use of the property in question if it is reclassified: Solar energy facility.

6. Explain in detail why you think this petition should be approved: See attached Findings of Fact narrative.

7. Name and addresses of owners whose property abuts the property in question: See attached list of adjacent property owners.

I certify that I, the applicant, have the consent of the owner and act on his behalf in applying for a Special Use Permit.

Date: 11/13/2023 Signature: Timothy S. Fratta
Applicant

Report of the Zoning Enforcement Officer on the property in question: _____

Fee Paid \$ _____ Date _____
Date Public Hearing Scheduled _____ Time _____
Dates Public Hearing Advertised _____

Petition: Approved _____ Petition No. _____
Denied _____

**Hackberry Solar LLC
Special Use Permit Application Attachment 1
Application Findings of Fact Narrative (Ordinance Art. V § 54.1)**

Hackberry Solar LLC (“Hackberry”) is seeking a Special Use Permit (“SUP”) for a 1.99 MW_{AC} Solar Energy Facility which will include photovoltaic panels (or modules), access roads, fencing, racking, inverters, transformers, and related facilities and equipment (the “Facility”). The Facility, as designed, satisfies the five findings the Board of Adjustment considers when issuing SUPs, as outlined in Land Use Ordinance (“Ordinance”) Art. V § 54.1.

Finding 1: The proposed use **does not** affect adversely the general plans for physical development of the County and will not be contrary to the purposes stated in these regulations:

Wayne County (the “County”) enacted an Ordinance Regulating the Operation and Maintenance of Solar Energy Facilities (the “Solar Ordinance”). The Facility will consist of approximately 5,400 First Solar single-axis tracking panels oriented north-south, and approximately 18 Sunny Tripower inverters. As reflected in the site plan, attached as Application Attachment 4, the Facility meets or exceeds all development standards specific to solar energy facilities set forth in the Solar Ordinance, specifically:

1. ***Setbacks (Solar Ordinance § 5.D):*** All improved areas, including disposal areas, shall be at least 60 feet from a public road and 25 feet from a fence line. Additionally, all improved areas shall be at least 100 feet from any residence or church, measured from the principal building in a non-residential area, and 50 feet from a residence or church, measured from the property line in a residential area. The Facility includes a 60-foot setback from the roadway and 50-foot setbacks from adjacent residential property lines.
2. ***Access Roads and Storage Areas (Solar Ordinance § 5.E):*** All access roads serving the Facility will be established on an access easement at least 30 feet in width.
3. ***Fencing (Solar Ordinance § 3):*** The Facility will be secured by a fence at least six feet in height.
4. ***Buffers (Solar Ordinance § 5.F):*** All solar energy facilities located in a residential area shall have a minimum landscape buffer of 25 feet. The buffer shall contain evergreen trees or bushes planted no more than eight feet apart and at least four feet tall at time of planting, and shall reach a height of ten feet within three growing seasons. The Facility will be screened by a buffer that meets the Solar Ordinance requirements.
5. ***Glare and Emissions (Solar Ordinance § 7.F-G):*** All solar energy facilities shall be designed and constructed to not produce light emissions or electrical emissions that would interfere with airport operations. The Facility will be constructed to comply with the glare and emissions requirements set forth in the Solar Ordinance.

The Facility is also in conformity with the Wayne County Comprehensive Plan (the “Plan”). The Plan states that it is designed to be used primarily for “managing growth and development and as a foundation for decisions on County facilities and services.” Plan pg. 2. The Plan also includes policies to further the County’s vision in various areas, including economic development, funding of County services, and agricultural preservation and growth management. The Facility will

further several of these goals, such as (1) Policy 2.1: diversifying the local economy and expanding industries; (2) Policy 2.9: encouraging a high quality of life for local residents; (3) Policy 3.1: promoting new development and contributing to the County tax base; and (4) Policy 4.1: preserving the rural and agricultural character of land in the County. The Facility will help support a thriving sustainable local economy, will contribute to the County tax base, and will generate clean energy which improves the County's environment and local residents' quality of life. Further, the Facility will preserve the land for agricultural use at the end of the life of the Facility or the land can then be used for a different type of development.

Finding 2: The proposed use **will not** adversely affect the health and safety of the County residents and **will not** be detrimental to the use or development of adjacent properties or other neighborhood uses:

The Facility is a low impact use that will not adversely affect the health and safety of County residents. The electric components will have an Underwriters Laboratories listing and the Facility will comply with the National Electric Code adopted at the time of construction. The Facility will meet all required conditions and specifications and will be built in compliance with the North Carolina Building Code. The Facility will not emit noxious fumes. The Facility will have nominal and only essential lighting and will generate minimal noise. The Facility will be surrounded by a security fence to prevent unauthorized access. Further, the Facility will not be detrimental to adjacent properties and other neighborhood uses. The Facility is in harmony with nearby rural residential and agricultural uses, having a lower visual profile than many improvements allowed or present in the area. The buffer and setbacks required by the Solar Ordinance are intended to ensure harmony with adjoining properties, and the proposed Facility meets or exceeds all buffer and setbacks requirements.

Finding 3: The proposed use **will not** be affected adversely by existing uses, and **will** be placed on a lot of sufficient size to satisfy the space requirements of said use:

The Facility is proposed in an area where the surrounding uses are rural residences or agricultural uses, which is typical of the areas in which solar facilities across the County and North Carolina are constructed. As such, the Facility will not be adversely affected by nearby existing uses. Additionally, the Facility will be constructed on an approximately 27 acre parcel of land that is under lease by Hackberry which is sufficient size for development of a 1.99 MW_{AC} solar energy facility.

Finding 4: The proposed use **will not** constitute a nuisance or hazard because of the number of persons who will use such a facility, the vehicular movement or the noise or fume generation:

The Facility will generate minimal traffic. The Institute of Transportation Engineers Trip Generation manual 11th Edition reports that the average single-family housing unit will produce an average of 9.52 trips on a weekday. During operation, the proposed Facility will generate far fewer daily trips than an average single-family home. The Facility will have only essential lighting and will generate minimal noise. Additionally, the Facility generates clean energy, producing no emissions or fumes, which is distributed into the local grid. The local generation of clean energy benefits the County.

Finding 5: The proposed use shall be subject to the minimum dimensional requirements of the district in which it is to be located and shall conform to the off-street parking and loading regulations:

The Facility will meet the minimum dimensional requirements of the underlying zoning district, and will not require off-street parking or loading docks.

**Hackberry Solar LLC
Decommissioning Plan
Application Attachment 7**

**Hackberry Solar Generation Facility, Utility Scale
Old Grantham Road, Goldsboro, NC**

As required by the Ordinance Regulating the Operation and Maintenance of Solar Energy Facilities, as a condition of a Special Use Permit to construct the Hackberry Solar Generation Facility on Old Grantham Road, (the "Facility"), Hackberry Solar LLC submits this decommissioning plan.

Decommissioning will occur as a result of any of the following conditions:

1. The Facility ceases to produce energy on a continuous basis for 12 months, unless substantial evidence is provided to the Planning Director to maintain and reinstate the operation of the Facility; or
2. The owner of the Facility decides to cease producing power for sale or use, or the system is damaged and will not be repaired or replaced.

The owner of the Facility will perform the following to decommission the project:

1. Remove all non-utility owned equipment, conduits, structures, fencing, roads, solar panels and foundations to a depth of at least three feet below grade.
2. Remove all graveled areas and access roads unless the owner of the leased real estate requests in writing for it to stay in place.
3. Restore the land to a condition reasonably similar to its condition before solar generation facility development, including replacement of topsoil removed or eroded.

Decommissioning shall be completed within 360 days of a determination by the Planning Director that the Facility has been abandoned unless the current responsible party with ownership interest in the Facility provides substantial evidence to the Planning Director of the intent to maintain and reinstate operation of the Facility.

The owner of the Facility will provide the Planning Director and the Wayne County Register of Deeds with an updated signed decommissioning plan within 30 days of change in the Facility owner.

This plan may be modified from time to time and a copy of any modified plans will be provided to the Planning Director, or his or her designee, and filed with the Wayne County

Register of Deeds by the party responsible for decommissioning.

[SIGNATURES ON THE FOLLOWING PAGE]

**Hackberry Solar LLC
Decommissioning Plan
Hackberry Solar Generation Facility, Utility Scale
Old Grantham Road, Goldsboro, NC**

Developer:

Hackberry Solar LLC,
a North Carolina limited liability company

By: Timothy S. Fratta

Print Name: Timothy Fratta

Its: Organizer

Landowner:

Isaac T. Perkins
Isaac Thomas Perkins

Connie H. Perkins
Connie Hudson Perkins



DEPARTMENT OF THE AIR FORCE
4TH FIGHTER WING (ACC)
SEYMOUR JOHNSON AIR FORCE BASE NC

DEC 07 2023

Mr. Brian W. Joyner, P.E.
Deputy Base Engineer
1095 Peterson Avenue
Seymour Johnson AFB NC 27531

Mr. Berry Gray, Planning Director
Wayne County Planning Department
134 North John Street
Goldsboro, NC 27530-3633

Dear Mr. Gray

On November 17, 2023, we received a request for comment regarding a Special Use Permit Application from Hackberry Solar LLC, for a proposed 27-acre solar project located at 1860 Old Grantham Road, Goldsboro, NC 27530 (PIN: 2567792359). The location of the subject solar farm is shown on the attached site plan provided to us (Attachment 1). Below is a summary of the three areas of concern as described in the Seymour Johnson AFB 2011 Air Installation Compatible Use Zone (AICUZ) report as related to the proposal.

A. Airspace Control Surfaces (Hazards to Aircraft Flight Zone): The subject property is within the Outer Horizontal Surface.

- (1) Height – Structures or vegetation on the property is limited in height to 599 feet above mean sea level. The proposal is **compatible** with this protocol.
- (2) Visual – The proposed development does not generate smoke, dust, steam or other visual interfering operations. The proposal is **compatible** with this protocol.
- (3) Light Emissions – We reviewed the ForgeSolar Glare Analysis report that was created on October 10, 2023, and requested the proponent to complete minor revisions. After reviewing the updated report created on November 21, we have no objections to the subject proposal as presented in the revised ForgeSolar Glare Analysis report (Attachment 2). The proposal is **compatible** with this protocol.
- (4) Bird/Wildlife Aircraft Strike Hazard (BASH) – Bird/Wildlife Aircraft Strike Hazard (BASH) – The proposed development does not create a BASH concern. The proposal is **compatible** with this protocol.

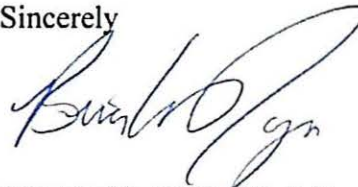
(5) Radio Frequency/Electromagnetic Interference (RF/EMI) – We do not anticipate the proposed development to create a RF/EMI concern with our aircraft operations. The proposal is **compatible** with this protocol.

B. Noise Due to Aircraft Operations: The subject property is not located in a Noise Zone and therefore is not applicable for this proposal.

C. Clear Zones and Accident Potential Zones: The subject property is not located in a Clear Zone or Accident Potential Zone and therefore is not applicable for this proposal.

We appreciate the opportunity to assess this request and comment on it. If additional information or clarification is required, please contact me at (919) 722-5142.

Sincerely

A handwritten signature in black ink, appearing to read "Brian W. Joyner", written in a cursive style.

BRIAN W. JOYNER, P.E.

2 Attachments:

1. Solar Farm Site Plan
2. ForgeSolar Glare Analysis

Hackberry Solar LLC Application Attachment 4

GIS PROPERTY LINE (TYP.)

DELINEATED WETLAND (TYP.)

PROJECT BOUNDARY

PARCEL GIS PROPERTY LINE

MAXIMUM ARRAY EXTENTS

50' RESIDENTIAL AREA SETBACK FROM PROPERTY LINE (TYP.)

PROPOSED 25' VEGETATIVE BUFFER TO BE PLANTED FOR SCREENING

APPROXIMATE ACCESS EASEMENT BOUNDARY

OLD GRANTHAM RD

PROPOSED ACCESS LOCATION

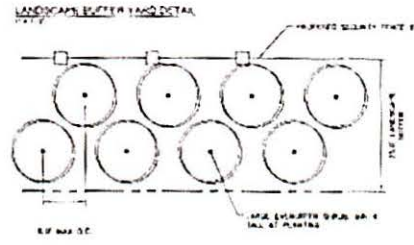
RESIDENTIAL BUILDING (TYP.)

APPROXIMATE POINT OF INTERCONNECTION

APPROXIMATE OVERHEAD ELECTRIC LINE

60' RIGHT OF WAY SETBACK

DEER ACRES DR



- 1. BUFFER TYPE 2: 10' ROW SETBACK
- 2. BUFFER TYPE 2: 10' ROW SETBACK
- 3. BUFFER TYPE 2: 10' ROW SETBACK
- 4. BUFFER TYPE 2: 10' ROW SETBACK
- 5. BUFFER TYPE 2: 10' ROW SETBACK
- 6. BUFFER TYPE 2: 10' ROW SETBACK
- 7. BUFFER TYPE 2: 10' ROW SETBACK
- 8. BUFFER TYPE 2: 10' ROW SETBACK
- 9. BUFFER TYPE 2: 10' ROW SETBACK
- 10. BUFFER TYPE 2: 10' ROW SETBACK



SITE DATA TABLE	
PROJECT NAME	HACKBERRY SOLAR LLC
PARCEL #	100-0000000000000000
OWNER	HACKBERRY SOLAR LLC
PROJECT ADDRESS	100-0000000000000000
PROJECT TYPE	SOLAR
PROJECT SIZE	100-0000000000000000
PROJECT STATUS	100-0000000000000000
PROJECT DATE	100-0000000000000000
PROJECT LOCATION	100-0000000000000000
PROJECT CONTACT	100-0000000000000000

LEGEND	
PROJECT BOUNDARY	100-0000000000000000
DELINEATED WETLAND (TYP.)	100-0000000000000000
PROJECT ADDRESS	100-0000000000000000
PROJECT TYPE	100-0000000000000000
PROJECT SIZE	100-0000000000000000
PROJECT STATUS	100-0000000000000000
PROJECT DATE	100-0000000000000000
PROJECT LOCATION	100-0000000000000000
PROJECT CONTACT	100-0000000000000000

- NOTES
1. PROJECT BOUNDARY: 100-0000000000000000
 2. DELINEATED WETLAND (TYP.): 100-0000000000000000
 3. PROJECT ADDRESS: 100-0000000000000000
 4. PROJECT TYPE: 100-0000000000000000
 5. PROJECT SIZE: 100-0000000000000000
 6. PROJECT STATUS: 100-0000000000000000
 7. PROJECT DATE: 100-0000000000000000
 8. PROJECT LOCATION: 100-0000000000000000
 9. PROJECT CONTACT: 100-0000000000000000
 10. PROJECT BOUNDARY: 100-0000000000000000
 11. DELINEATED WETLAND (TYP.): 100-0000000000000000
 12. PROJECT ADDRESS: 100-0000000000000000
 13. PROJECT TYPE: 100-0000000000000000
 14. PROJECT SIZE: 100-0000000000000000
 15. PROJECT STATUS: 100-0000000000000000
 16. PROJECT DATE: 100-0000000000000000
 17. PROJECT LOCATION: 100-0000000000000000
 18. PROJECT CONTACT: 100-0000000000000000



FORGESOLAR GLARE ANALYSIS

Project: Hackberry Solar

Site configuration: 18 acre array - new tower loc

Created 10 Oct, 2023

Updated 21 Nov, 2023

Time-step 1 minute

Timezone offset UTC-5

Minimum sun altitude 0.0 deg

DNI peaks at 1,000.0 W/m²

Category 500 kW to 1 MW

Site ID 102688.17885

Ocular transmission coefficient 0.5

Pupil diameter 0.002 m

Eye focal length 0.017 m

Sun subtended angle 9.3 mrad

PV analysis methodology V2



Summary of Results No glare predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Rwy 08 approach	0	0.0	0	0.0
Rwy 26 approach	0	0.0	0	0.0
Rwy 08	0	0.0	0	0.0
Rwy 26	0	0.0	0	0.0
1-ATCT	0	0.0	0	0.0

Component Data

PV Arrays

Name: PV array 1

Axis tracking: Single-axis rotation

Backtracking: Shade-slope

Tracking axis orientation: 180.0°

Max tracking angle: 60.0°

Resting angle: 0.0°

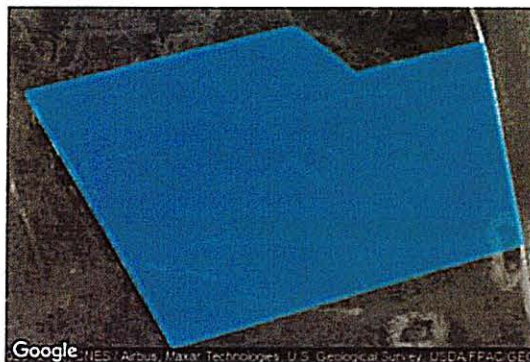
Ground Coverage Ratio: 0.5

Rated power: -

Panel material: Smooth glass with AR coating

Reflectivity: Vary with sun

Slope error: correlate with material



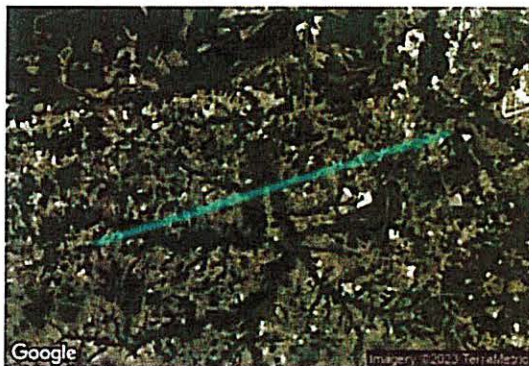
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	35.338964	-78.105155	167.10	5.00	172.10
2	35.339446	-78.102720	169.11	5.00	174.11
3	35.339104	-78.102173	177.28	5.00	182.28
4	35.339332	-78.101036	176.85	5.00	181.85
5	35.337861	-78.100660	182.50	5.00	187.50
6	35.337109	-78.103804	174.70	5.00	179.70

Route Receptors

Name: Rwy 08 approach

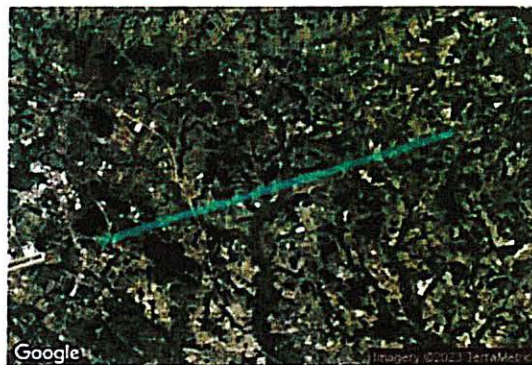
Path type: One-way (toward increasing index)

Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	35.275452	-78.213674	129.20	3866.00	3995.20
2	35.326238	-78.013398	65.08	686.00	751.08

Name: Rwy 26 approach
 Path type: One-way (toward increasing index)
 Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	35.402132	-77.707772	113.69	3866.00	3979.69
2	35.352534	-77.907772	109.72	686.00	795.72

Flight Path Receptors

Name: Rwy 08
 Description:
 Threshold height: 50 ft
 Direction: 73.0°
 Glide slope: 3.0°
 Pilot view restricted? Yes
 Vertical view: 30.0°
 Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	35.334699	-77.979464	71.61	50.00	121.61
Two-mile	35.326246	-78.013396	65.05	609.99	675.04

Name: Rwy 26
Description:
Threshold height: 50 ft
Direction: 253.0°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	35.344091	-77.941733	107.73	50.00	157.73
Two-mile	35.352525	-77.907790	109.72	601.44	711.16

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
1-ATCT	1	35.344631	-77.963783	92.60	124.00

Map image of 1-ATCT



Glare Analysis Results

Summary of Results No glare predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy kWh
			min	hr	min	hr	
PV array 1	SA tracking	SA tracking	0	0.0	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Rwy 08 approach	0	0.0	0	0.0
Rwy 26 approach	0	0.0	0	0.0
Rwy 08	0	0.0	0	0.0
Rwy 26	0	0.0	0	0.0
1-ATCT	0	0.0	0	0.0

PV: PV array 1 no glare found

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Rwy 08 approach	0	0.0	0	0.0
Rwy 26 approach	0	0.0	0	0.0
Rwy 08	0	0.0	0	0.0
Rwy 26	0	0.0	0	0.0
1-ATCT	0	0.0	0	0.0

PV array 1 and Route: Rwy 08 approach

No glare found

PV array 1 and Route: Rwy 26 approach

No glare found

PV array 1 and FP: Rwy 08

No glare found

PV array 1 and FP: Rwy 26

No glare found

PV array 1 and 1-ATCT

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians



Journal Proof Report

Journal Number: 615 Year: 2024 Period: 6		Description:	Reference 1:	Reference 2:	Reference 3:
Split	Account	Account Description	Debit	Credit	Balance
BUA	1104380-526100	Office Supplies-NonCaptl FF&E	\$1500.00		
BUA	1104380-521200	Uniforms			\$1500.00
			Journal: 0034-0002	12/23	12/23

Journal Proof Report



Journal Number: 527 Year: 2024 Period: 6 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1315153-529100	Data Processing Supplies				\$300.00
BUA	1315153-543100	Rental of Copier Equipment			\$300.00	
			Journal 2024/6/527	Total	\$300.00	\$300.00

Journal Proof Report



Journal Number: 528 Year: 2024 Period: 6 Description: Sheriff Reference 1: 256 Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
	Formatted Project String					
BUA	2154328-551000	Capital Outlay-Equipment			\$12448.54	
	E-ARPA -Sheriff -BrTool -					
BUA	2154328-335000-ARPA	Grant Revenues				\$12448.54
			Journal 2024/6/528	Total	\$12448.54	\$12448.54

Journal Proof Report



Journal Number: 731 Year: 2024 Period: 6 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1104325-539500	Training				\$1500.00
BUA	1104325-554000	Capital Outlay-Vehicles			\$1500.00	
			Journal 2024/6/731	Total	\$1500.00	\$1500.00

Journal Proof Report



Journal Number: 732 Year: 2024 Period: 6 Description: Reference 1: Reference 2: Reference 3:

Source	Account	Account Description	Line Description	OB	Debit	Credit
BUA	1315166-535200	Repairs & Maint-Equipment				\$37.00
BUA	1315166-549100	Dues & Subscriptions			\$37.00	
			Journal 2024/6/732	Total	\$37.00	\$37.00