

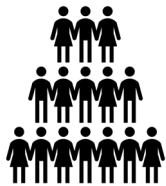
Merry Point Solar and Storage: Project Update

December 14, 2023

Our Mission & Core Values



- ❑ Designed to meet much higher projections for future demand
 - ❑ 5x larger than growth experienced over the last 15 years
- ❑ An “all of the above” approach is needed to assure reliability:
 - ❑ Expands renewable portfolio
 - ❑ Preserves most current power stations
 - ❑ Considers new nuclear and natural gas resources



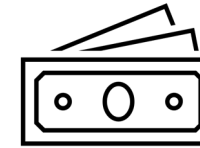
~6,894

Electric customers in
Lancaster County



30+

Current employees &
contractors in Lancaster

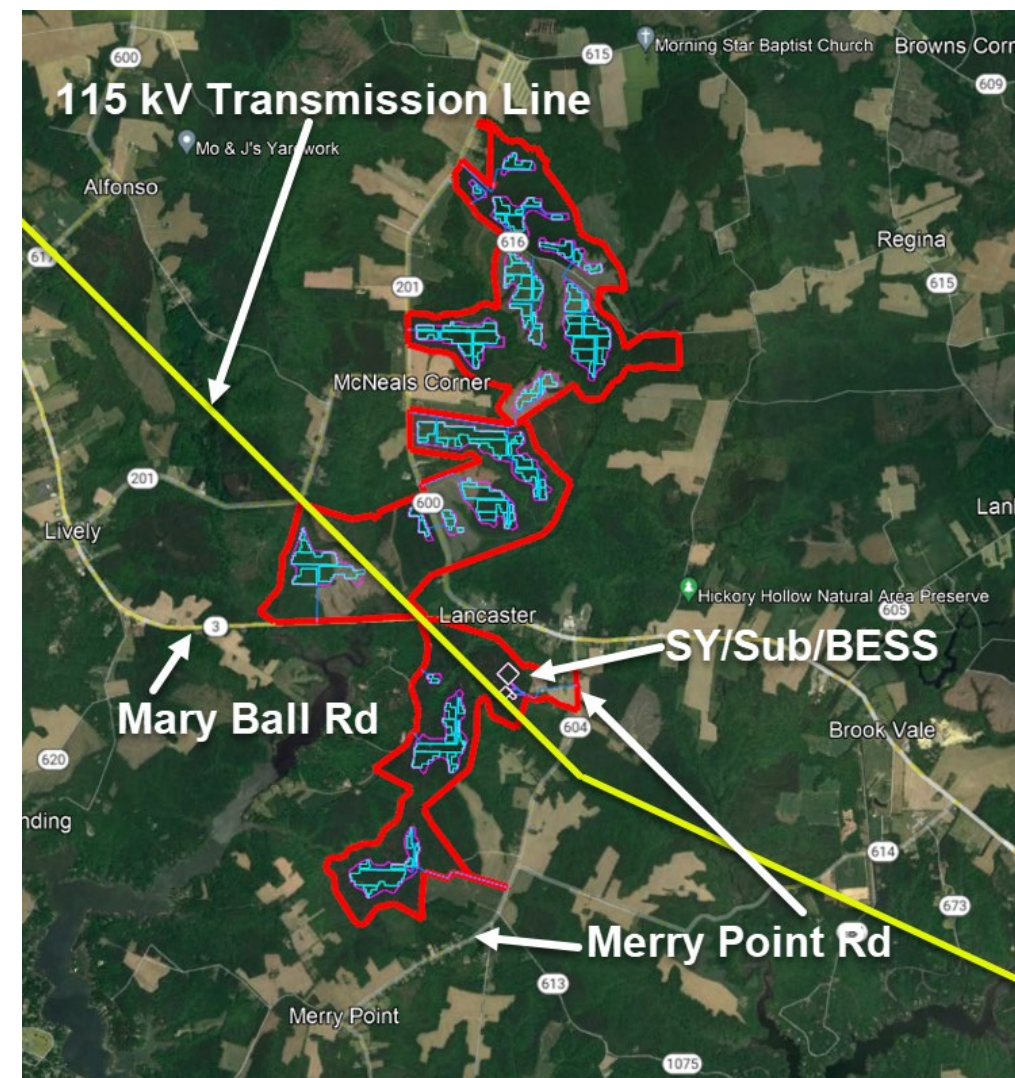


\$415,315

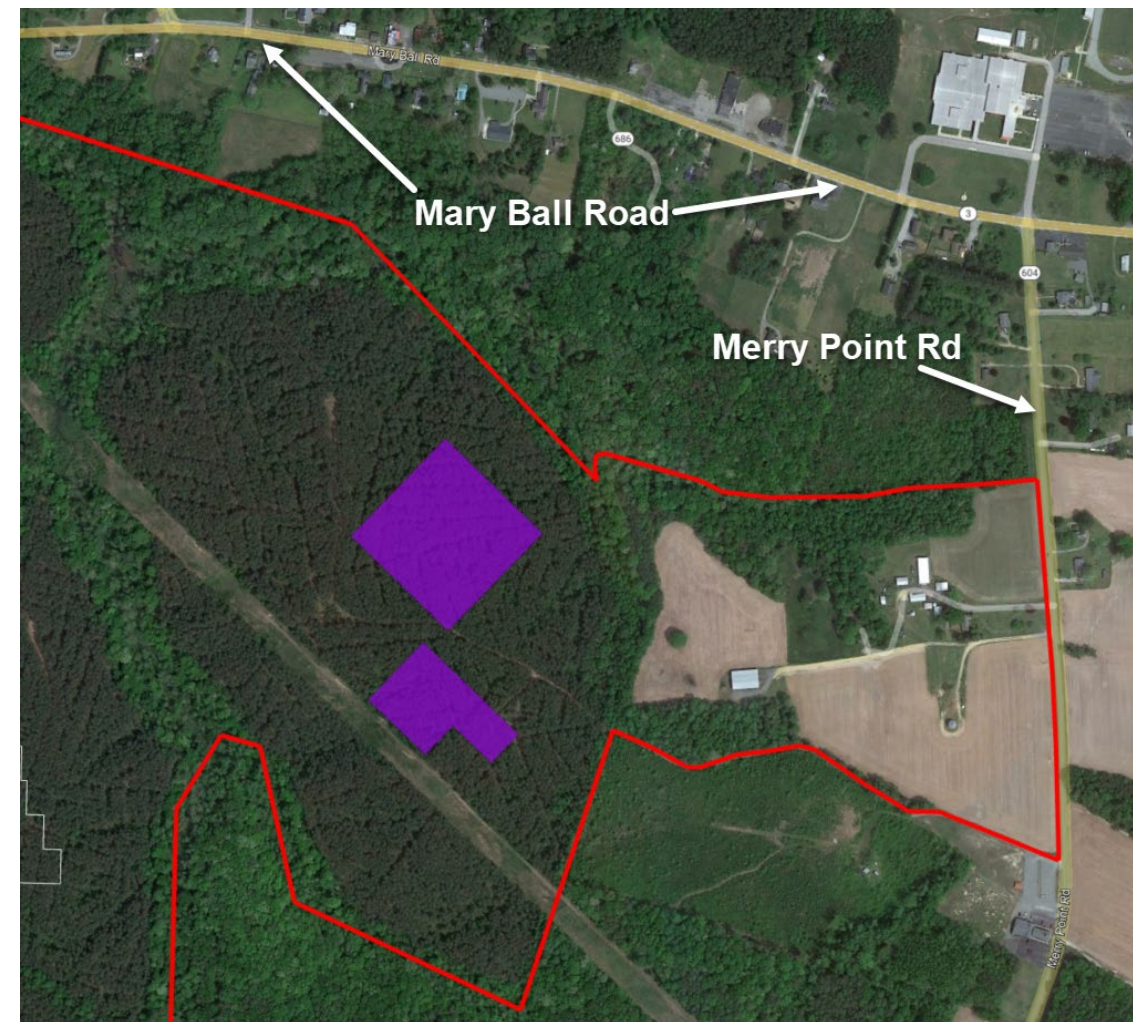
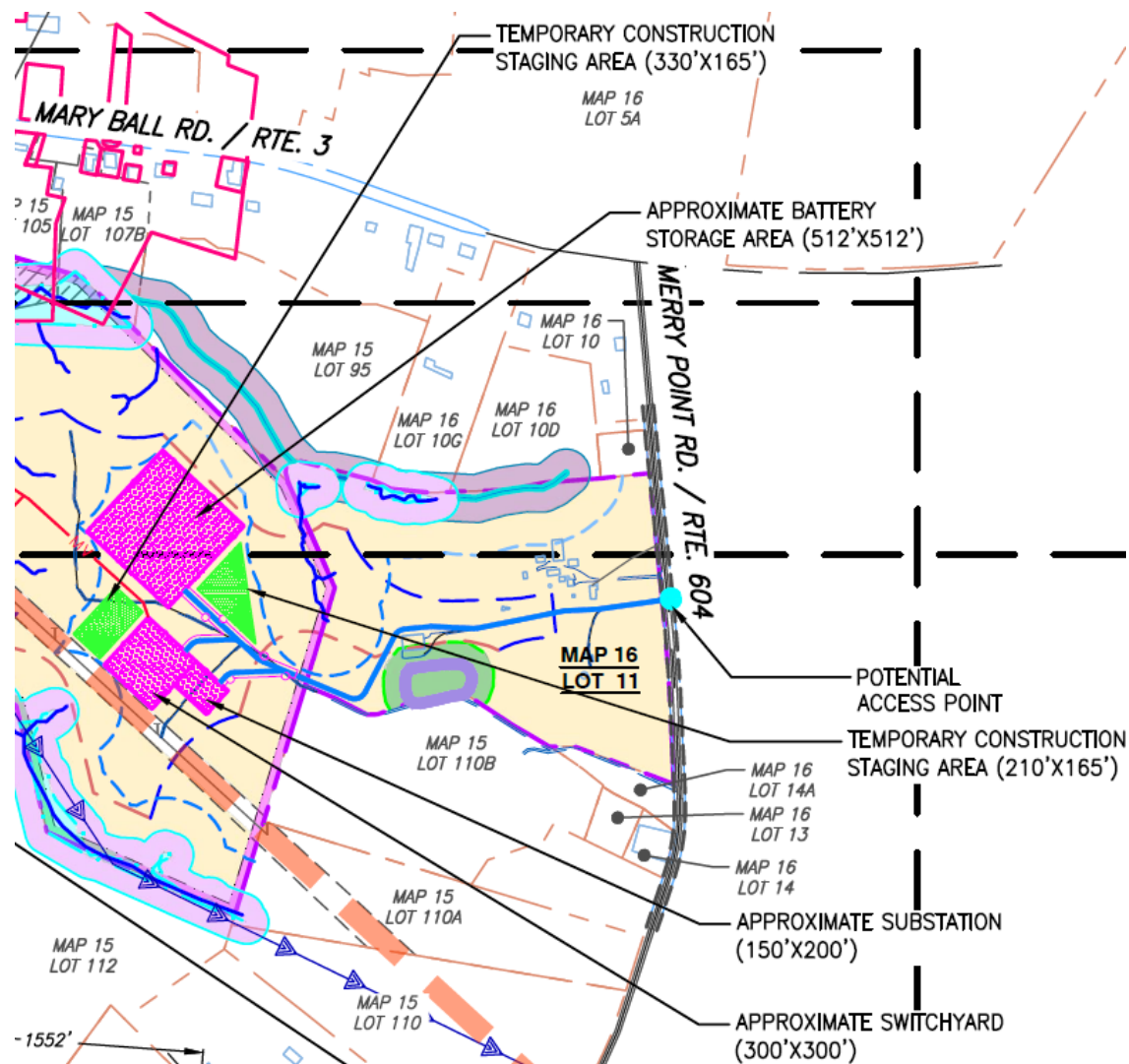
Property taxes paid in
2022

Project Overview (Solar)

- ❑ **Location:** North and south from Mary Ball Road (Route 3) as well as setback from Courthouse Road and Avis Trail.
- ❑ **Project Capacity:**
 - ❑ Up to 100 MW AC
- ❑ **Acreage:**
 - ❑ ~323 acres to be used for solar panels
- ❑ **Anticipated Commercial Operations:**
 - ❑ 2028



Substation, Switchyard, and BESS Access



Battery Storage in Virginia

- Executing the largest energy storage mandate in the nation
- Battery Storage provides the power grid with flexibility and resiliency
- Online battery storage projects include:
 - Three Lithium-ion Pilot BESS facilities located in Hanover, New Kent, and Powhatan Counties, totaling 16MWs
 - 20MW Dry Bridge BESS facility located in Chesterfield County
- Additional battery storage facilities are under development in Henrico County (Darbytown), Sussex County (Shands), and Dulles International Airport in Loudoun County, totaling 75MWs



Merry Point Battery Energy Storage System



- ❑ 50 MW AC battery storage facility
- ❑ Located southwest of Mary Ball Road and Merry Point Road
- ❑ Situated on ~10 acres of timberland
- ❑ Operational in 2029
- ❑ Operational life ~20 years

**Photos shown are from the Dry Bridge facility and are for illustrative purposes only.*



Components of Battery Energy Storage Systems

**For illustrative purposes only*



FIRE SAFETY

- ☐ Ensure Cell / Module / Unit level battery testing/certification (UL9540A)
- ☐ Minimum 25 feet spatial separation reduces the risk of a propagated fire event
- ☐ Robust layers of failure detection that may include flammable gas, smoke, and heat detection.
- ☐ Active and passive protection such as emergency ventilation and deflagration vents
- ☐ Training provided for Dominion personnel, first responders and O&M contractors on proper response protocols

BATTERY MANAGEMENT

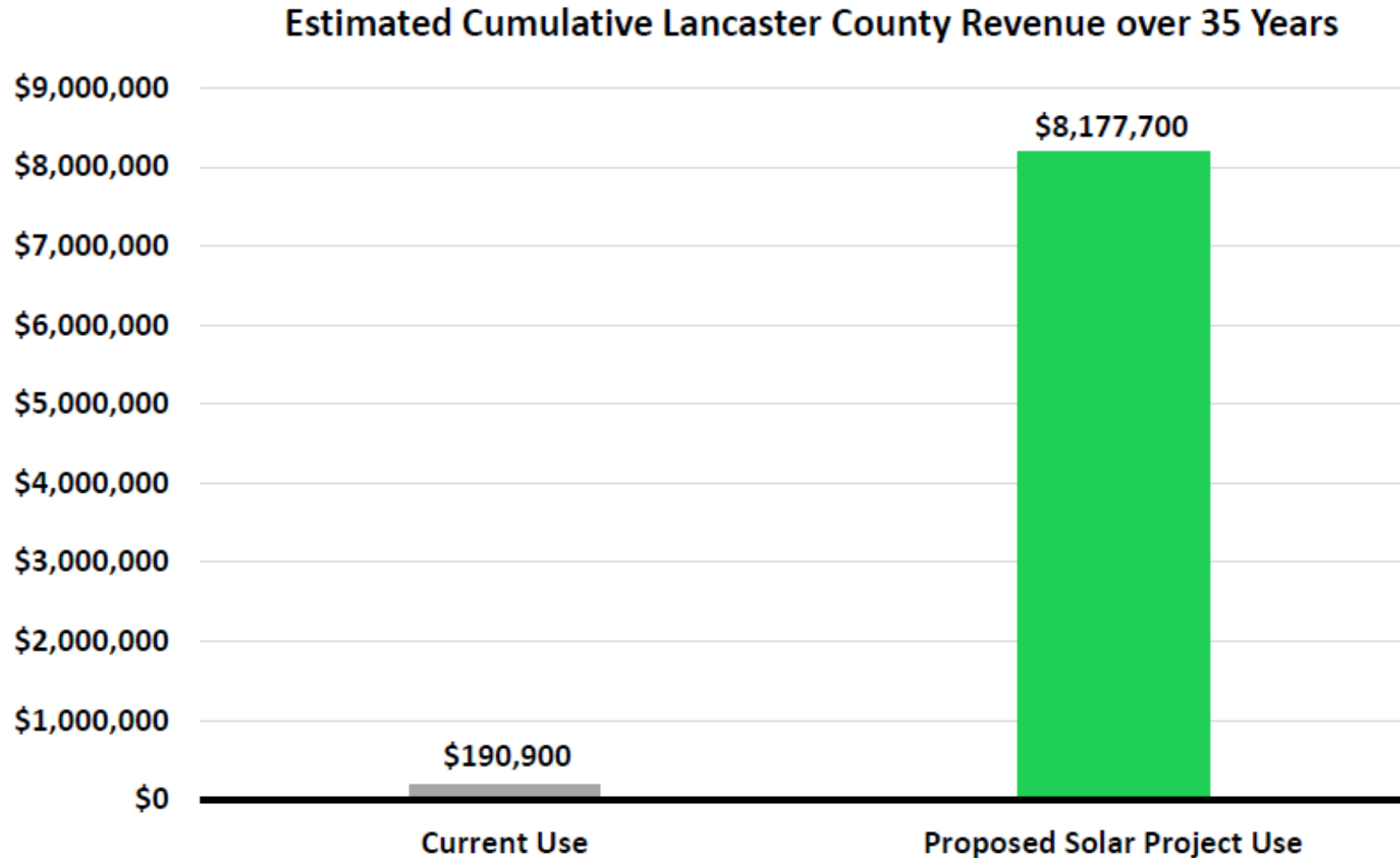
- ☐ Operate batteries within safe limits
- ☐ Battery cells in containers during operation
- ☐ 24x7x365 Operational monitoring
- ☐ Proper offsite disposal of battery cells when damaged, failed or at end of useful life / site decommissioning

Key Topics of Discussion

- ☐ Economic Benefits
- ☐ Environmental Controls
- ☐ Visual Screening



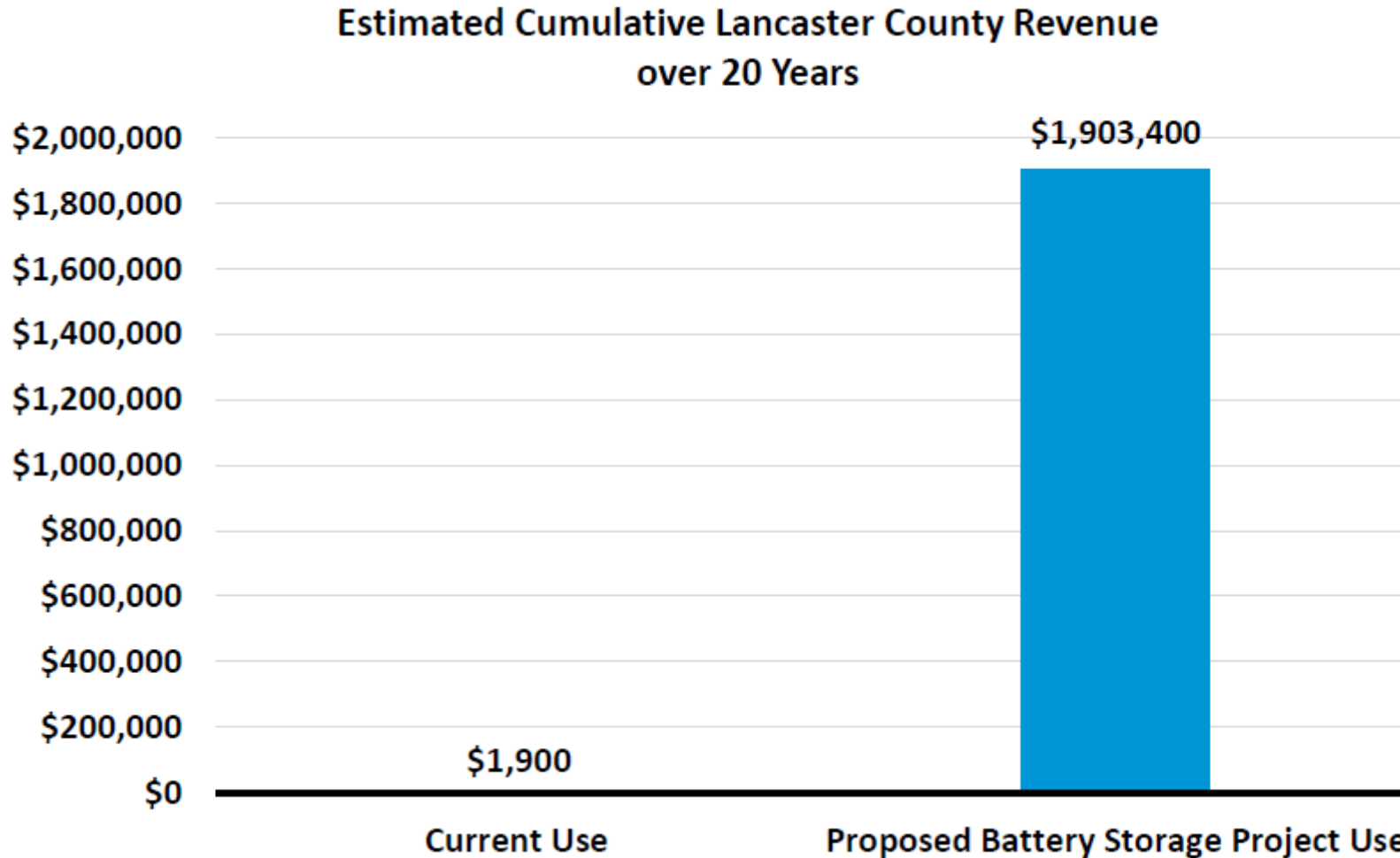
Economic Benefits (Merry Point Solar)



- Increased tax revenue: ~\$8.2M*
- Budget certainty with Revenue Share
- Additional funding through Siting Agreement Payment

*Source: Mangum Economics – Merry Point Solar Economic & Fiscal Contribution to Lancaster County, August 2023

Economic Benefits (Merry Point Storage)



- Increased tax revenue: ~\$1.9M*
- Budget certainty with Revenue Share
- Additional funding through Siting Agreement Payment

*Source: Mangum Economics – Merry Point Storage Economic & Fiscal Contribution to Lancaster County, Aug. 2023

Project Benefits

- ❑ Clean Energy for Customers:
 - Diverse generation mix including solar coupled with storage; provides cleaner, more reliable power for our customers
- ❑ Construction:
 - Suppliers, civil construction, equipment rental, fencing, landscaping, etc.
 - Restaurants, grocery stores, gas stations
- ❑ Operations:
 - Vegetation management
 - Civil site inspection and maintenance



- ☐ **Develop a stormwater plan** that works with the natural contours of the land.
- ☐ **Maintain existing buffers** and vegetation that helps absorb stormwater.
- ☐ **Leave natural buffers** around wetlands and streams.

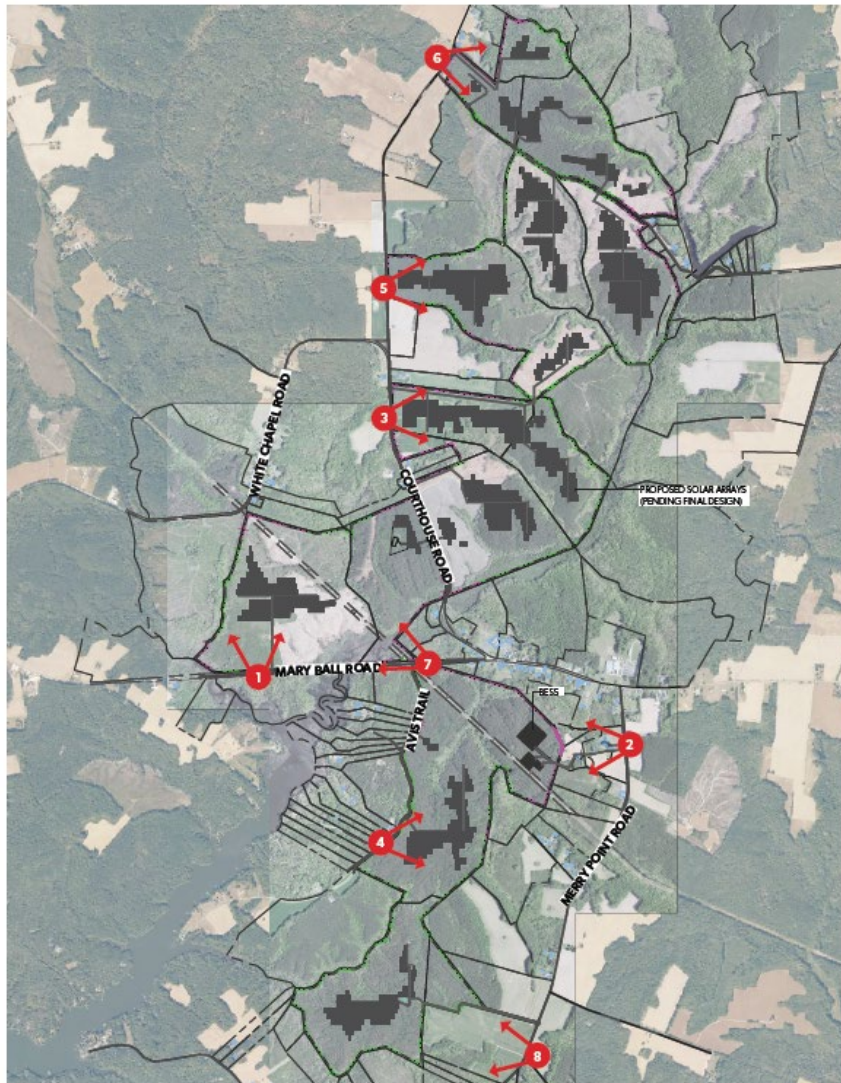


- ☐ **Build basins** to prevent sediment from entering waterways.
- ☐ **Install adequate stormwater conveyance systems** to collect stormwater and prevent erosion.
- ☐ **Establish and manage vegetative groundcover** throughout the project's life cycle to stabilize soil and improve soil health.
- ☐ **Regular inspections** are conducted to maintain the stormwater best practices.



- ☐ Extensively screened to minimize views.
- ☐ Substantial setbacks from roads and residential structures.
- ☐ Additional screening will be added in areas where natural vegetation does not exist or is limited.
- ☐ Vegetative buffers will be maintained for the life of the facility.

Visual Screening Overview



OVERALL KEY PLAN LEGEND:

 Existing or Naturalized 40' Vegetated Buffer

 Existing or Established 40' Vegetated Buffer

 MARY BALL ROAD - 1,150' SETBACK

 MERRY POINT ROAD

 COURTHOUSE ROAD

 AVIS TRAIL

 COURTHOUSE ROAD

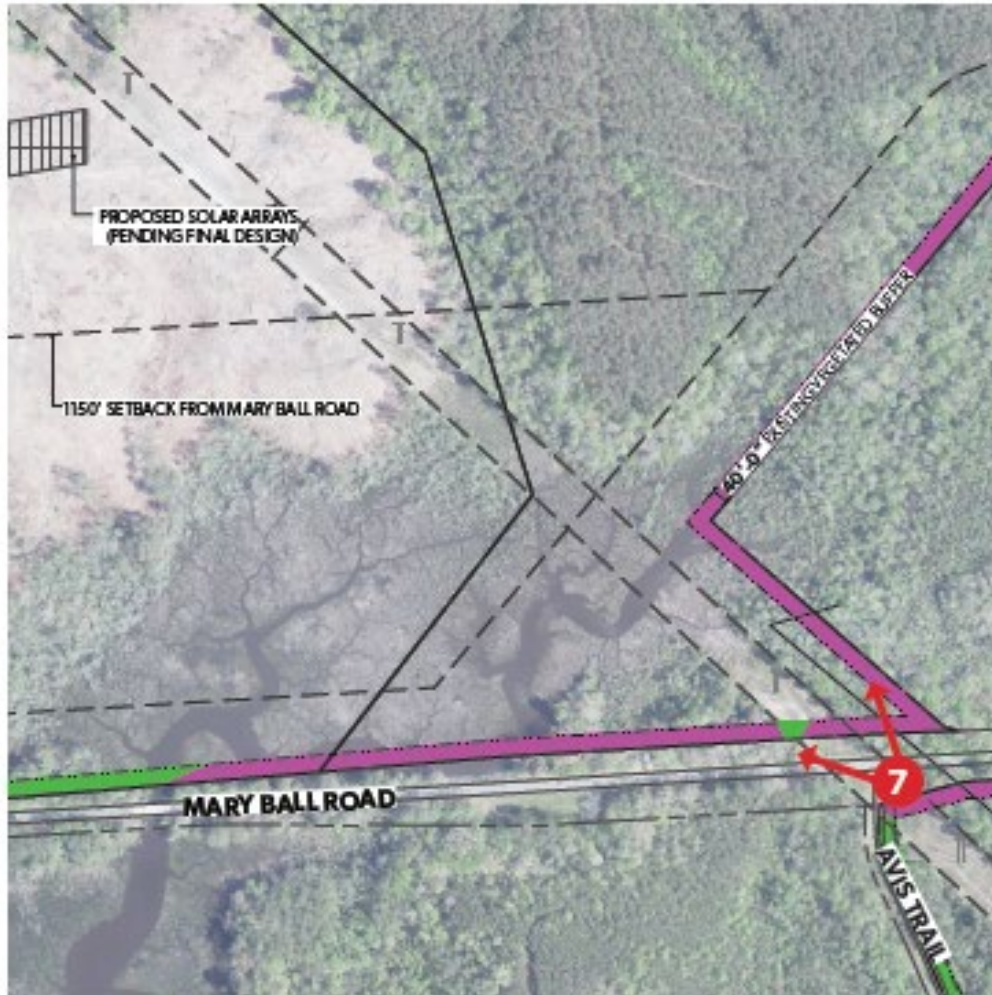
 COURTHOUSE ROAD

 AVIS TRAIL + MARY BALL ROAD

 MERRY POINT ROAD (SOUTH)



Visual Screening – View from Mary Ball Road



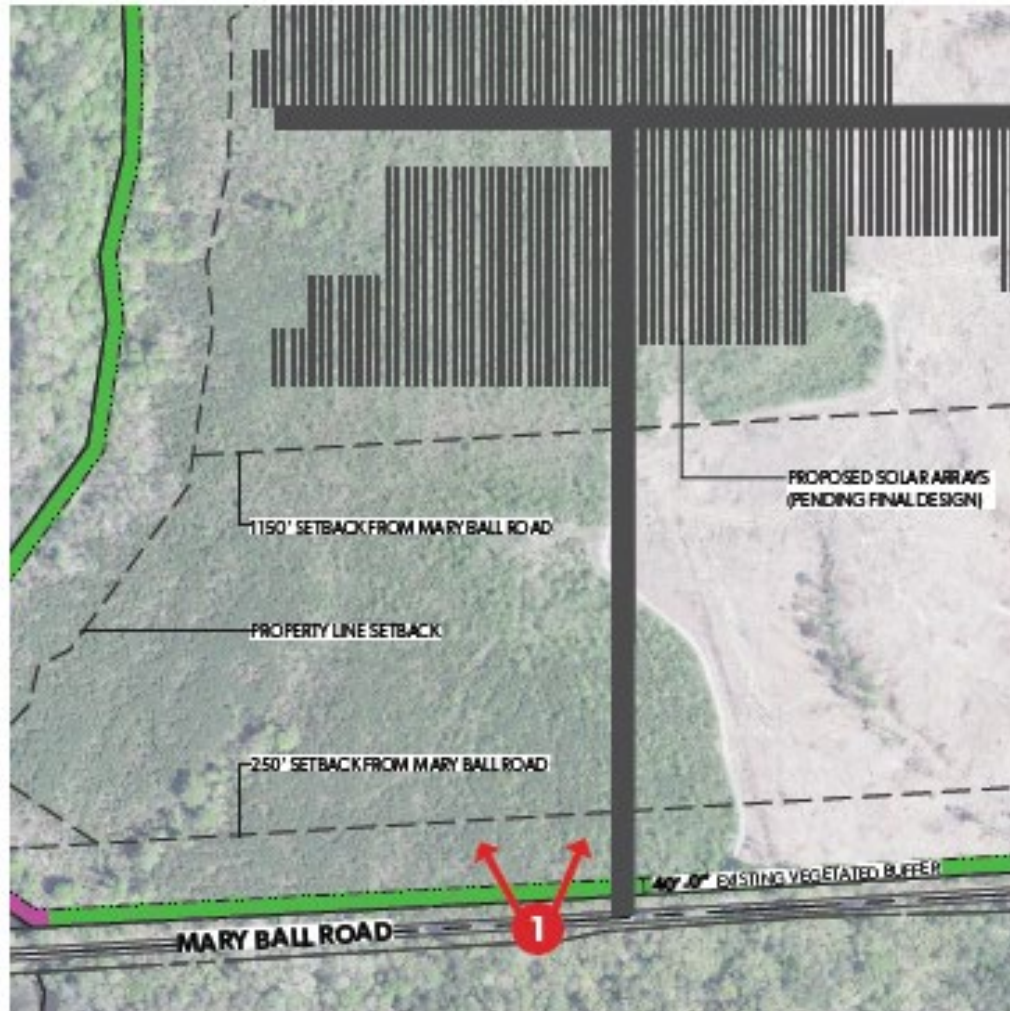
KEY PLAN: MARY BALL ROAD



PHOTO DATE: 07/31/2023

VIEW SEVEN: EXISTING CONDITIONS
(ARRAYS BEYOND EXISTING VEGETATION AND TOPOGRAPHICAL FEATURES).

Visual Screening – North of Mary Ball Road



KEY PLAN: MARY BALL ROAD - 1,150' SETBACK



VIEW ONE: EXISTING CONDITIONS
(ARRAYS BEYOND EXISTING VEGETATION AND TOPOGRAPHICAL FEATURES).

Visual Screening – Merry Point Road (North)



KEY PLAN: MERRY POINT ROAD



PHOTO DATE: 09/19/2022

VIEW TWO: EXISTING CONDITIONS

(SUBSTATION AND SWITCHYARD BEYOND VEGETATION AND TOPOGRAPHICAL FEATURES - NATURALIZED VEGETATIVE BUFFER WILL REMAIN PROVIDING VISUAL SCREENING).

Visual Screening – Merry Point Road (South)



KEY PLAN: MERRY POINT ROAD (SOUTH)



PHOTO DATE: 03/30/2023

VIEW EIGHT: EXISTING CONDITIONS
(ARRAYS BEYOND EXISTING VEGETATION AND TOPOGRAPHICAL FEATURES).

Visual Screening – Avis Trail



KEY PLAN: AVIS TRAIL



PHOTO DATE: 09/19/2022

VIEW FOUR: EXISTING CONDITIONS
(ARRAYS BEYOND EXISTING DECIDUOUS AND CONIFEROUS VEGETATION - MINIMUM OF 100' OF EXISTING VEGETATION BETWEEN ROADWAY AND CLEARING FOR ARRAYS WILL REMAIN).

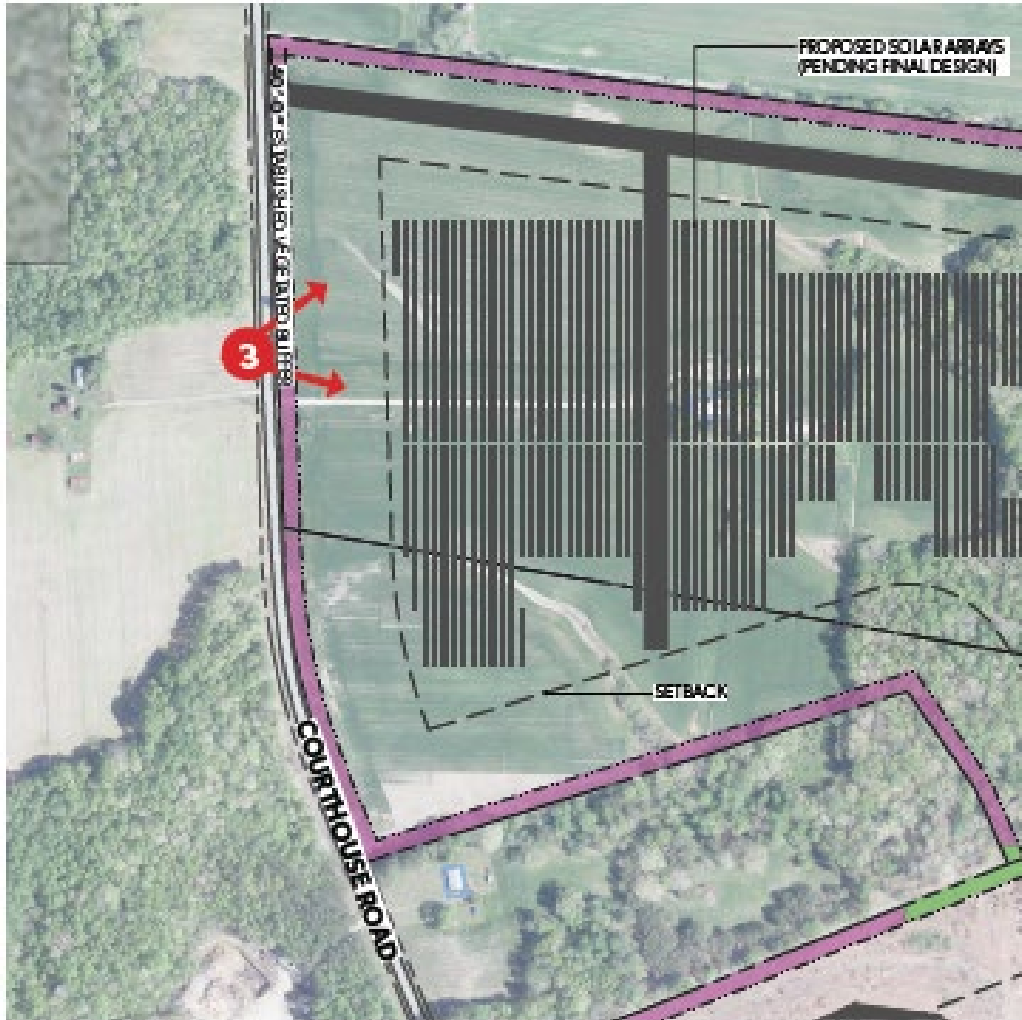
Visual Screening – Courthouse Road

Existing Conditions



Visual Screening – Courthouse Road

Proposed conditions at time of planting



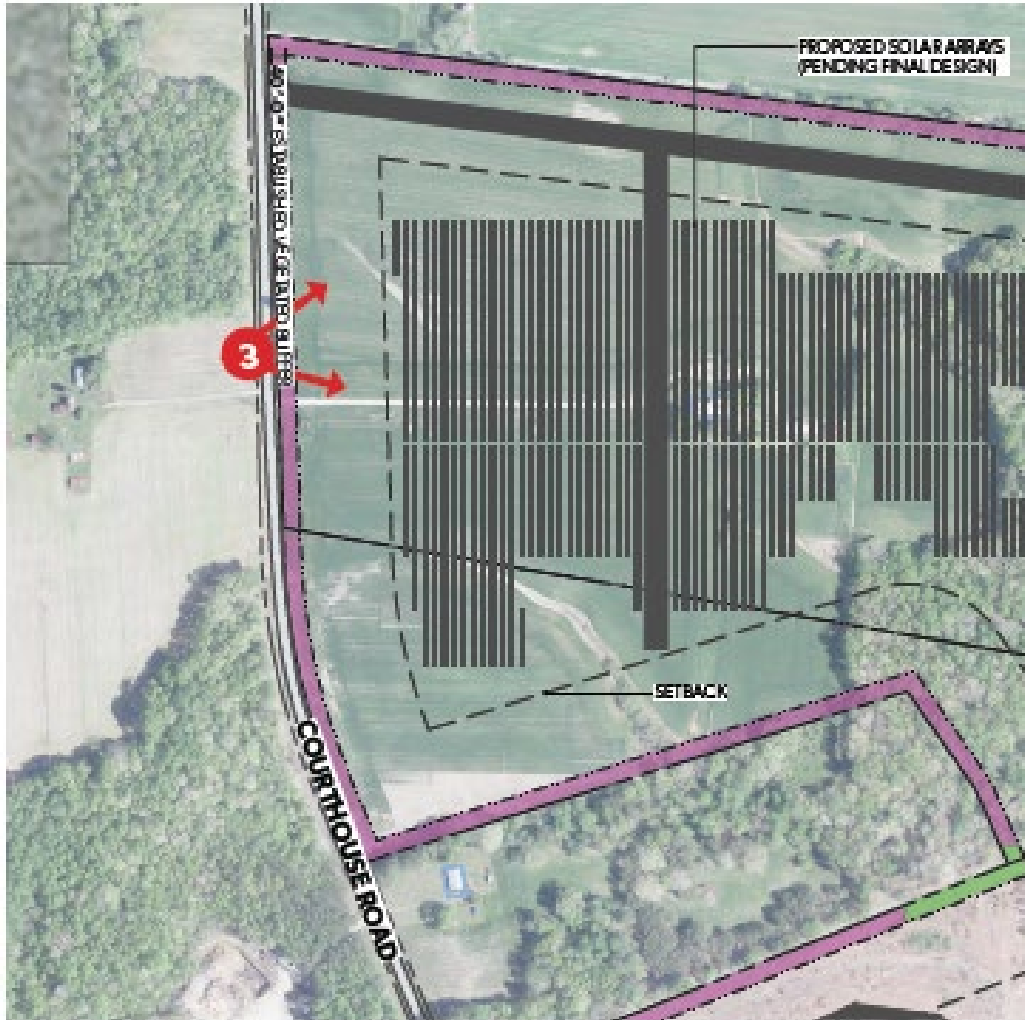
KEY PLAN: COURTHOUSE ROAD



VIEW THREE: PROPOSED CONDITIONS AT TIME OF PLANTING.

Visual Screening – Courthouse Road

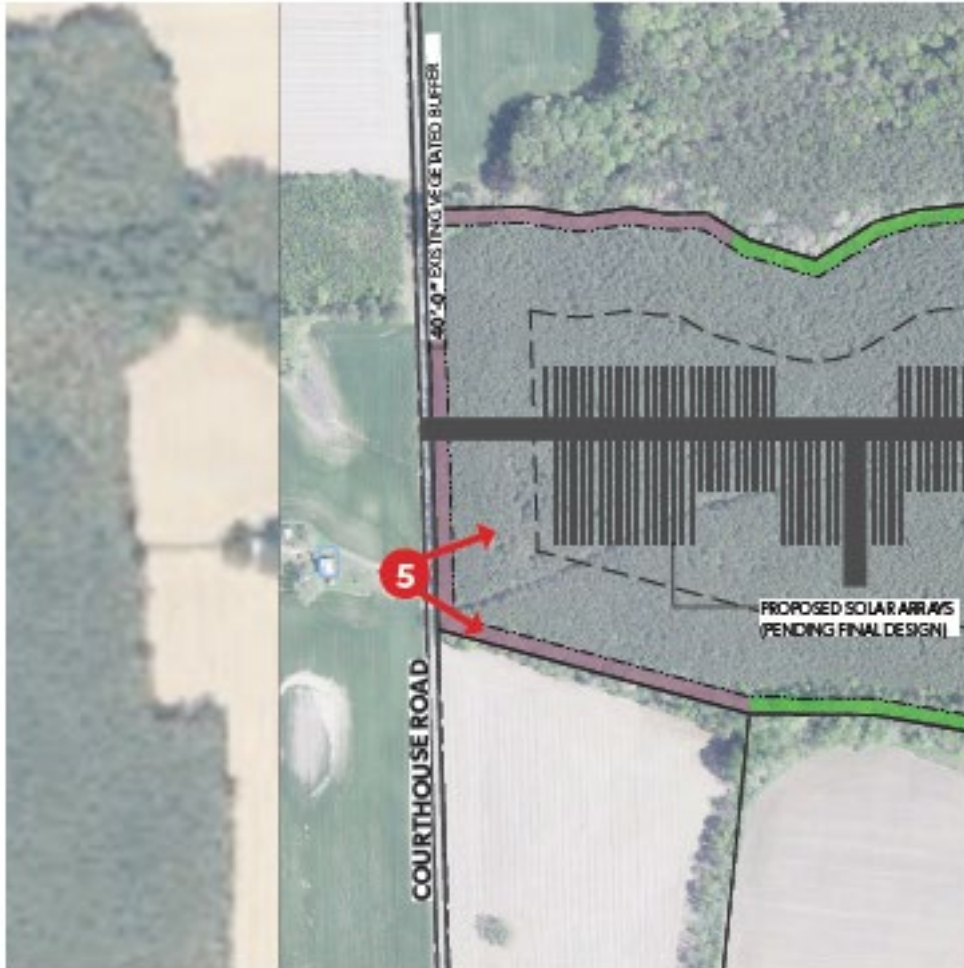
Proposed conditions at 5 years



KEY PLAN: COURTHOUSE ROAD



Visual Screening – Courthouse Road



KEY PLAN: COURTHOUSE ROAD

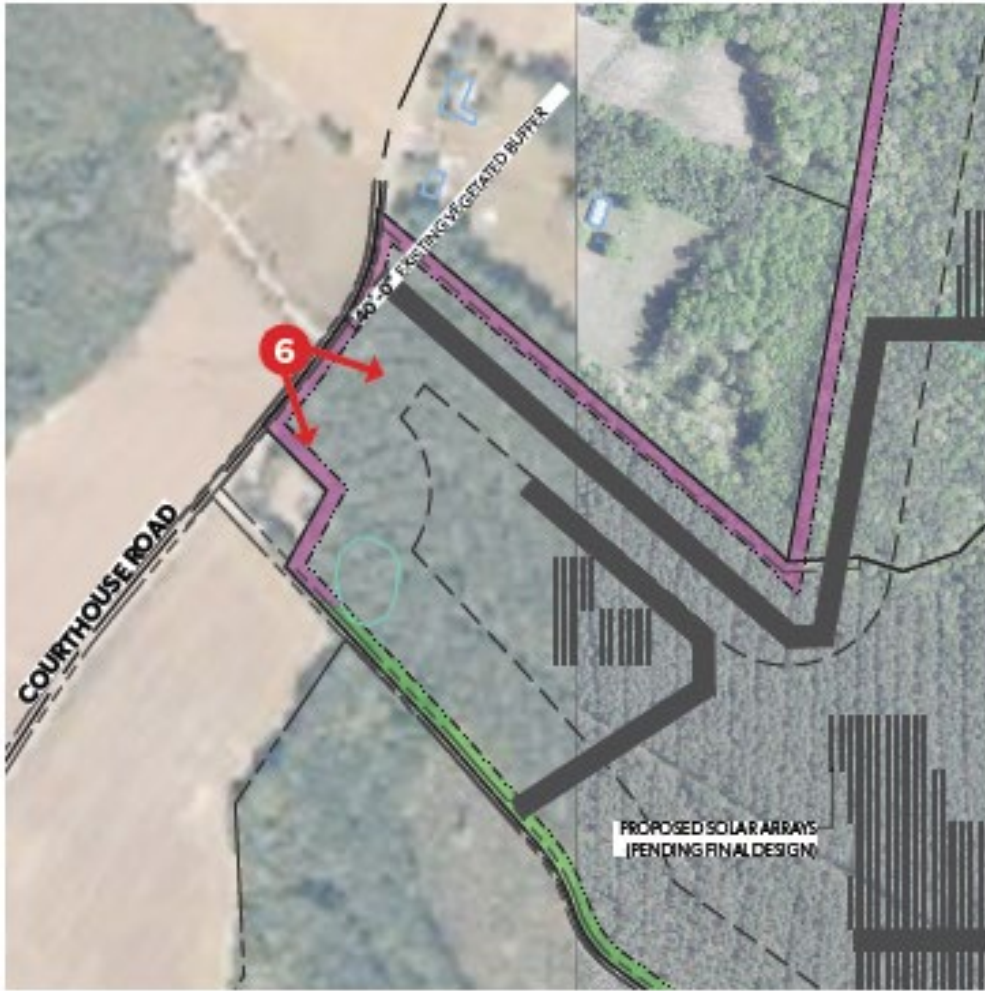


PHOTO DATE: 03/30/2023

VIEW FIVE: EXISTING CONDITIONS

(ARRAYS BEYOND EXISTING DECIDUOUS AND CONIFEROUS VEGETATION - MINIMUM OF 40' OF EXISTING VEGETATION BETWEEN ROADWAY AND CLEARING FOR ARRAYS WILL REMAIN).

Visual Screening – Courthouse Road (North)



KEY PLAN: COURTHOUSE ROAD



PHOTO DATE: 03/30/2023

VIEW SIX: EXISTING CONDITIONS

(ARRAYS BEYOND EXISTING DECIDUOUS AND CONIFEROUS VEGETATION - MINIMUM OF 40' OF EXISTING VEGETATION BETWEEN ROADWAY AND CLEARING FOR ARRAYS WILL REMAIN).

Dominion Energy Contacts



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**Photo shown above is for illustrative purposes.*