SUNRISE WIND LLC

SUNRISE WIND NEW YORK CABLE PROJECT

REVISED EXHIBIT 5

DESIGN DRAWINGS

PREPARED PURSUANT TO 16 NYCRR § 86.6

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Acronyms and Abbreviations

AC	alternating current
ANSI	American National Standards Institute
Applicant	Sunrise Wind LLC
ASCE	American Society of Civil Engineers
CFR	Code of Federal Regulations
DC	Direct Current
EM&CP	Environmental Management and Construction Plan
ft	feet
DC	direct current
IEEE	Institute of Electrical and Electronics Engineers
km	kilometer(s)
kV	kilovolt(s)
LIPA	Long Island Power Authority
m	meter(s)
MHWL	mean high water line
mi	mile(s)
NESC	National Electrical Safety Code
NYCRR	New York Codes, Rules and Regulations
NYISO	New York Independent System Operator, Inc.
NYS	New York State
NYSERDA	New York State Energy Research and Development Authority
OCS	Outer Continental Shelf
OnCS-DC	Onshore Converter Station-Direct Current
OREC	Offshore Wind Renewable Energy Certificate
Project	Sunrise Wind New York Cable Project

PSL	New York Public Service Law
ROW	right-of-way
SRWEC	Sunrise Wind Export Cable
SRWEC-NYS	Sunrise Wind Export Cable-New York State
SRWF	Sunrise Wind Farm
TJB	transition joint bay
US	United States
USACE	United States Army Corps of Engineers

EXHIBIT 5: DESIGN DRAWINGS

In accordance with New York Public Service Law (PSL) § 122 and 16 New York Codes, Rules and Regulations (NYCRR) § 86.6, this exhibit provides a description of the proposed facility and a description of the design, profile, and architectural drawings, including: (a) the length, width, and height of any structure; (b) the material of construction, color, and finish; and (c) a profile of the centerline of the rightof-way at exaggerated vertical scale.

5.1 INTRODUCTION

Sunrise Wind LLC (Sunrise Wind or the Applicant), a 50/50 joint venture between Orsted North America Inc. (Orsted NA) and Eversource Investment LLC (Eversource), proposes to construct, operate, and maintain the Sunrise Wind New York Cable Project (the Project). Sunrise Wind executed a 25-year Offshore Wind Renewable Energy Certificate (OREC) contract related to the Sunrise Wind Farm (SRWF) and the Project with the New York State Energy Research and Development Authority (NYSERDA) in October 2019. The Project will deliver power from the SRWF, located in federal waters on the Outer Continental Shelf (OCS), to the existing electrical grid in New York (NYS). The Project includes offshore and onshore components within NYS that are subject to PSL Article VII review and will interconnect at the existing Holbrook Substation, which is owned and operated by the Long Island Power Authority (LIPA).

Specifically, power from the SRWF will be delivered to the existing mainland electric grid via distinct Project segments: the submarine segment of the export cable (SRWEC), which will be located in both federal and NYS waters (the NYS portion of the cable referred to as the SRWEC–NYS); the terrestrial underground segment of the transmission cable (Onshore Transmission Cable); the new Onshore Converter Station (OnCS–DC); and the underground segment of the interconnection cable (Onshore Interconnection Cable). The Onshore Transmission Cable, the OnCS–DC, and Onshore Interconnection Cable (together, the Onshore Facilities) are all located in the Town of Brookhaven, Suffolk County, New York.

The Project's components are generally defined into two categories:

- SRWEC-NYS
 - One direct current (DC) submarine export cable bundle (320 kilovolt [kV]) up to 6.2 miles (mi) (10.8 kilometers [km]) in length in NYS waters and up to 1,575 feet (ft) (480 meters [m]) located onshore (*i.e.*, above the Mean High Water Line [MHWL], as defined by the

United States [US] Army Corps of Engineers [USACE] [33 Code of Federal Regulations (CFR) 329]) and underground, up to the transition joint bays (TJBs).

- Onshore Facilities
 - One DC underground transmission circuit (320 kV) (referred to as the Onshore Transmission Cable) up to 17.5 mi (28.2 km) in length within existing roadway right-ofway (ROW), TJBs, and concrete and/or direct buried joint bays and associated components;
 - One OnCS-DC that will transform the Project voltage to 138 kV alternating current (AC);
 - Two AC underground circuits (138 kV) (referred to as the Onshore Interconnection Cable) up to 1 mi (1.6 km) in length, which will connect the new OnCS-DC to the existing Holbrook Substation; and
 - Fiber optic cables co-located with both the Onshore Transmission Cable and Onshore Interconnection Cable.

5.2 DESIGN STANDARDS

The Project will be designed to meet NYS Building Code/2015 International Building Code, American Society of Civil Engineers (ASCE) Standard 7-16, ASCE 113, ASCE 24-14, National Electric Safety Code (NESC), and all applicable Institute of Electrical and Electronics Engineers (IEEE) standards.

5.3 DESIGN DRAWINGS

5.3.1 SRWEC-NYS

The SRWEC-NYS will be up to 6.2 mi (10 km) long from the limits of the NYS waters to the TJBs in Smith Point County Park on Fire Island in the Town of Brookhaven. In addition, a segment of the SRWEC-NYS (up to 1,575 ft [480 m]) will be located onshore (*i.e.*, above the MHWL) and underground, up to the TJBs, as described in Exhibit 2: Location of Facilities.

The SRWEC-NYS will consist of one cable bundle comprised of two cables traversing through both federal and NYS waters. Each cable within the single bundle will consist of one copper or aluminum conductor core surrounded by layers of cross-linked polyethylene insulation and various protective armoring and sheathing to protect the cable from external damage and keep it watertight. A fiber optic cable will be bundled together with the two main conductors. Continuous monitoring of the SRWEC will be provided by the fiber optic cable, which will assist in cable fault detection, control and monitoring, and communication.

The preliminary plans of the SRWEC-NYS from the NYS line to the TJB, showing the indicative burial depth, is provided in Figure 5.3-1. A cross section of a typical SRWEC cable and a conceptual schematic of the TJB are provided in Figure 5.3-2. A typical TJB is up to 82 ft x 16 ft x 16 ft (25 m x 5 m x 5 m), the Project-specific TJB is in the preliminary design stages and will be finalized with detailed design in the Project Environmental Management and Construction Plan (EM&CP).

Further details on the design and construction of the SRWEC-NYS are discussed within Revised Exhibit E-1: Transmission Facilities and Revised Exhibit E-3: Underground Construction, respectively.

5.3.2 Onshore Transmission Cable

The SRWEC-NYS will be spliced together with the Onshore Transmission Cable at co-located TJBs and link boxes located at Smith Point County Park.

The Onshore Transmission Cable will be up to 17.5 mi (28 km) long from the TJB within the landfall work area at Smith Point County Park (the Landfall Work Area) to the OnCS–DC. Underground routing of the Onshore Transmission Cable prioritized the location within existing disturbed ROW to the extent practicable.

At the TJB, the two monopole cables will be spliced into two single phase onshore transmission cables and two fiber optic cables. Each cable will consist of one copper or aluminum conductor core surrounded by layers of cross-linked polyethylene insulation and various protective sheathing to protect the cable from external damage and keep it watertight.

The preliminary plans of the Onshore Transmission Cable from the TJB to the OnCS-DC are provided in Revised Figure 5.3-3, including the location of proposed splice boxes. A cross section of a typical onshore transmission cable, showing the typical duct bank burial depth, and typical construction installation is also provided in Revised Figure 5.3-3.

A profile of the indicative Project centerline from the NYS line to the Holbrook Substation at an exaggerated vertical scale is provided in Revised Figure 5.3-4.

Further details on the design and construction of the Onshore Transmission Cable are discussed within Revised Exhibit E-1: Transmission Facilities and Revised Exhibit E-3: Underground Construction, respectively.

5.3.3 Onshore Converter Station Facility

Power from the SRWF will be delivered to the electric grid via an OnCS-DC to be constructed in the Town of Brookhaven. Interconnection to the electric grid will occur at the existing Holbrook Substation, also located in the Town of Brookhaven. Delivery of the power to the Holbrook Substation will require

construction of the OnCS-DC to support the Project's interconnection to the existing electrical grid by transforming the Project voltage to 138 kV AC.

The entire station footprint area will be graveled and surrounded by a 7-ft (2.1-m)-high fence topped with a 1-ft (0.3-m)-tall barbed wire extension for a total height of 8 ft (2.4 m). Access will be provided through a minimum of one drive-through gate and one walk-through gate. Vegetative screening of the site will be provided as needed subject to NYS permitting requirements and detailed in the Project's Environmental Management and Construction Plan (EM&CP). General yard lighting will be provided within the site for assessment of equipment. In general, yard lighting will be minimal at night and subject to NYS and local requirements unless there is work in progress on site or lights are required for safety and security purposes.

The engineering of the OnCS-DC will be based on a 320 kV symmetric monopole design. The OnCS-DC will consist of both a dedicated DC portion as well as an AC portion. The DC portion of the OnCS-DC will consist of a valve hall and cooling devices, which are unique to the converter design. The AC portion of the OnCS-DC will consist of gas or air insulated switchgear system bay positions using 138 kV equipment. A new control enclosure at the OnCS-DC will be equipped with control systems, as well as systems for local and remote control of the equipment, and will be 70 ft (21.3 m) in height. It is anticipated the tallest structure will be the lightning masts at 100 ft (30.5 m) in height and made of galvanized steel. The OnCS-DC equipment will include but not limited to painted sheet steel, galvanized steel, aluminum, and/or copper and will be either American National Standards Institute (ANSI) grey or have a natural finish (*i.e.*, galvanized steel, aluminum). For the components of painted sheet metal (*i.e.*, primarily building siding or roof materials) the Applicant is willing to work with local officials on a suitable color. Final materials, colors and description will be coordinated with the manufacturer and will be detailed in the Project EM&CP.

The final configuration of the OnCS-DC will be developed as part of the New York Independent System Operator, Inc.'s (NYISO) interconnection process and will include all the equipment necessary to safely make the connection. The final foundation design and equipment layout may vary based on site-specific geotechnical evaluations and subsequent engineering design. However, for the purpose of this Application, a preliminary OnCS-DC layout and design was developed. Final design details of the OnCS-DC will be presented within the Project EM&CP.

A conceptual layout and cross-sections for the OnCS-DC are depicted in Revised Figure 5.3-5. Further details on the OnCS-DC are discussed within Revised Exhibit E-2: Other Facilities.

5.3.4 Onshore Interconnection Cable

The Onshore Interconnection Cable from the OnCS-DC to the point of interconnection at the Holbrook Substation will be up to 1.0 mi (1.6 km) long and begin at a set of termination structures located along the northerly portion of the site and will be routed underground along Union Avenue to the existing utilityowned or controlled property for connection to the Holbrook Substation. The specific placement of the Onshore Interconnection Cable within the corridor will be identified in the Project EM&CP.

Each cable will consist of one copper or aluminum conductor core surrounded by layers of cross-linked polyethylene insulation and various protective sheathing to protect the cable from external damage and keep it watertight.

The preliminary plans of the Onshore Interconnection Cable from the OnCS-DC to Holbrook Substation are provided in Revised Figure 5.3-3.

Further details on the design and construction of the Onshore Interconnection Cable are discussed within Revised Exhibit E-1: Transmission Facilities and Revised Exhibit E-3: Underground Construction, respectively.

5.3.5 Design Drawings

The design drawings included within this Exhibit are described in Revised Table 5.3-1.

Figure Number	Drawing/Drawing Set Name	Drawing/Drawing Set Description
Figure 5.3-1	SRWEC-NYS Plan Set	This drawing set consists of the preliminary plans of the SRWEC-NYS from the NYS Line to the TJB.
Figure 5.3-2	SRWEC-NYS Conceptual Drawings	This drawing set consists of a cross section of a typical SRWEC cable and a conceptual schematic of the TJB.
Revised Figure 5.3-3	Onshore Transmission Cable Plan Set	This drawing set consists of the preliminary plans of the Onshore Transmission Cable from the TJB to the OnCS- DC and the preliminary plans of the Onshore Interconnection Cable from the OnCS-DC to Holbrook Substation
		This drawing set also consists of a cross section of a typical onshore transmission cable and typical construction installation is also provided.
Revised Figure 5.3-4	Sunrise Wind New York Cable Project Exaggerated Profile	This drawing consists of the profile of the Project centerline at exaggerated vertical scale.
Revised Figure 5.3-5	OnCS-DC Conceptual Drawings	This drawing set consists of the conceptual plans and cross-sections for the OnCS-DC.

Revised Table 5.3-1. Design Drawings





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DC CABLE DUCT BANK
TRENCHLESS INSTALLATION
TRENCHLESS INSTALLATION WORKSPACE
SPLICE VAULT (SV)
PROPERTY LINE
EDGE OF ROAD
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LEGEND:

<u>GE</u>	NERAL NOTES:
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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION . __ __ __ SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

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9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

C. KUNTZ

N. SCOTT

Powered by Ørsted &

05/22/2020 designed M. DAGENAIS

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LEGEND:	
	DC CABLE DUCT BANK TRENCHLESS INSTALLATION TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN

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05/22/2020 designed M. DAGENAIS

Sunrise Wind

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C. KUNTZ

N. SCOTT

SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 17 OF 70

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GENERAL	NOTES:

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD _____ ROAD CENTER LINE ____ EDGE OF WATER <u>-++++++</u>

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GENERAL	NOTES:

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PRELIMINARY - NOT FOR CONSTRUCTION

9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

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05/22/2020 designed M. DAGENAIS

Sunrise Wind

Powered by Ørsted & Eversource

C. KUNTZ

N. SCOTT

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 - 8. ALIGNMENT SUBJ PHASE.
 - NOTES:
 - 1. TRENCHLESS CRO SHOWN ARE APPF DETAILED DESIGN





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 LEGEND:

 DC CABLE DUCT BANK

 TRENCHLESS INSTALLATION

 TRENCHLESS INSTALLATION WORKSPACE

 SPLICE VAULT (SV)

 PROPERTY LINE

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GENERAL NOTES:

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- 7. PROPERTY LINES
- 8. ALIGNMENT SUBJ PHASE.
- NOTES:
- 1. TRENCHLESS CRO SHOWN ARE APPF DETAILED DESIGN



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 LEGEND:

 DC CABLE DUCT BANK

 TRENCHLESS INSTALLATION

 TRENCHLESS INSTALLATION WORKSPACE

 SPLICE VAULT (SV)

 PROPERTY LINE

 EDGE OF ROAD

 ROAD CENTER LINE

 EDGE OF WATER

 RAILROAD

 TRANSITION JOINT BAY (TJB)

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GENERAL NOTES: 1. HORIZONTAL RAI OTHERWISE NOT

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- 6. IMAGERY TAKEN
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KEY PLAN NOT TO SCALE



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- NOTES:
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KEY PLAN NOT TO SCALE



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GENERAL NOTES:

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6. IMAGERY TAKEN FROM AUTODESK BING MAPS.

7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN

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PRELIMINARY - NOT FOR CONSTRUCTION

9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

checked

C. KUNTZ

N. SCOTT

Powered by Ørsted &

Eversource

05/22/2020 designed M. DAGENAIS

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Sunrise Wind

SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT

DC CABLE ROUTING 29 OF 70 project contrac 108023 drawing C129 Η sheet of sheets

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER ____ _ _ __ TRANSITION JOINT BAY (TJB)

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1.	HORIZONTAL RADII SHALL BE 200' RADIUS TYPICAL UNLESS OTHERWISE NOTED.

2. VEGETATION REMOVAL SHALL BE AVOIDED TO THE EXTENT POSSIBLE.

4. DUCT BANK SHALL MAINTAIN MINIMUM DEPTH OF COVER OF 3 FT UNLESS OTHERWISE SHOWN ON DRAWINGS.

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PRELIMINARY - NOT FOR CONSTRUCTION

9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

05/22/2020 designed M. DAGENAIS

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Ørsted & Eversource SUFFOLK, NEW YORK

C. KUNTZ

N. SCOTT

SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 32 OF 70 project contrac 108023

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9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

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DC CABLE DUCT BANK TRENCHLESS INSTALLATION

SPLICE VAULT (SV) PROPERTY LINE

EDGE OF ROAD ROAD CENTER LINE

EDGE OF WATER

TRANSITION JOINT BAY (TJB)

RAILROAD

TRENCHLESS INSTALLATION WORKSPACE

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GENERAL NOTES:

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2. VEGETATION REMOVAL SHALL BE AVOIDED TO THE EXTENT POSSIBLE.

3. EXISTING UTILITIES NOT SHOWN.

4. DUCT BANK SHALL MAINTAIN MINIMUM DEPTH OF COVER OF 3 FT UNLESS OTHERWISE SHOWN ON DRAWINGS.

5. DUCT BANK AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.

6. IMAGERY TAKEN FROM AUTODESK BING MAPS.

7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

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9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

05/22/2020 designed M. DAGENAIS

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Sunrise Powered by Ørsted & Eversource

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SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 34 OF 70

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD _ _ _ _ _ _ _ _ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING

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 DC CABLE DUCT BANK

 TRENCHLESS INSTALLATION

 TRENCHLESS INSTALLATION WORKSPACE

 SPLICE VAULT (SV)

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LEGEND:

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GENERAL NOTES:

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATI _____ TRENCHLESS INSTALLAT SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER TRANSITION JOINT BAY (TJB)

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6. IMAGERY TAKEN FROM AUTODESK BING MAPS.

7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

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А	7/1/2020	MJD	NDS	ISSUED FOR REVIEW
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05/22/2020 designed M. DAGENAIS

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Ørsted & Eversource SUFFOLK, NEW YORK

C. KUNTZ

N. SCOTT

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SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 43 OF 70

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 44 OF 70

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER <u>-+++++++++</u> RAILROAD TRANSITION JOINT BAY (TJB)

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SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 49 OF 70

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WO SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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	SUFFOLK, SURRISE WIND NEW N DC CABLE 52 C project 108023 drawing C152 sheet of file 108023SUNRC101	Powered by Ørsted & Eversource NEW YORK ORK CABLE PROJECT ROUTING DF 70 contract rev. H sheets 50-59.dwg	1

no. date by ckd

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _ __ __ . TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD _ _ _ _ _ _ _ _ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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- 1. HORIZONTAL RAI OTHERWISE NOT 3. EXISTING UTILITIES NOT SHOWN.

 - PHASE.

KEY PLAN NOT TO SCALE

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DII SHALL BE 200' RADIUS TYPICAL UNLESS	
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2. VEGETATION REMOVAL SHALL BE AVOIDED TO THE EXTENT POSSIBLE.

4. DUCT BANK SHALL MAINTAIN MINIMUM DEPTH OF COVER OF 3 FT UNLESS OTHERWISE SHOWN ON DRAWINGS.

5. DUCT BANK AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.

6. IMAGERY TAKEN FROM AUTODESK BING MAPS.

7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN

no.	date	by	ckd	description
А	7/1/2020	MJD	NDS	ISSUED FOR REVIEW
в	9/4/2020	MJD	NDS	ISSUED - FOR REFERENCE ONLY
С	9/24/2020	MJD	NDS	ISSUED - FOR REFERENCE ONLY
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Eversource SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING

53 OF 70 project contrac 108023 drawing rev. C153 Η _ sheet of sheets

file 108023SUNRC101 50-59.dwg



LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION . __ __ __ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER _____ RAILROAD

TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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1.	HORIZONTAL R. OTHERWISE NO
2.	VEGETATION R POSSIBLE.
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5. DUCT BANK AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.

KEY PLAN NOT TO SCALE



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REMOVAL SHALL BE AVOIDED TO THE EXTENT

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SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING

54 OF 70 project contrac 108023 drawing C154 Η sheet of sheets file 108023SUNRC101 50-59.dwg



LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATIO ____ TRENCHLESS INSTALLATIO SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES: 1. HORIZONTAL RA ERWISE NOT

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SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 55 OF 70

project contrac 108023 drawing C155 Η sheet of sheets

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION TRENCHLESS INSTALLATION SPLICE VAULT (SV) PROPERTY LINE R EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES: 1. HORIZONTAL RAE

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KEY PLAN NOT TO SCALE

LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION ____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ____ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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1.	HORIZONTAL RA
2.	VEGETATION RI POSSIBLE
3.	EXISTING UTILIT
4.	DUCT BANK SHA

5. DUCT BANK AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.



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8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

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DC CABLE ROUTING 57 OF 70 project contrac 108023 drawing rev. C157 Η _ sheet of sheets

file 108023SUNRC101 50-59.dwg



LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD _ _ _ _ _ _ _ _ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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1.	HORIZONTAL R. OTHERWISE NO
2.	VEGETATION R POSSIBLE.
3.	EXISTING UTILI
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5. DUCT BANK AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.

KEY PLAN NOT TO SCALE



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DC CABLE ROUTING 58 OF 70 project contrac 108023 drawing rev. C158 Η sheet sheets

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LEGEND: DC CABLE DUCT TRENCHLESS IN TRENCHLESS IN SPLICE VAULT PROPERTY LINE EDGE OF ROAD ROAD CENTER EDGE OF WATE _____ RAILROAD TRANSITION JOINT BAY (TJB)

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DII SHALL BE 200' RADIUS TYPICAL UNLESS	
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Wind Eversource SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING

59 OF 70 project contrac 108023 drawing C159 Η sheet of sheets file 108023SUNRC101 50-59.dwg



KEY PLAN NOT TO SCALE

LEGEND:	
	DC CABLE DUCT B/ TRENCHLESS INST SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINI EDGE OF WATER RAILROAD
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GENERAL NOTES:

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T (SV)	2.	VEGETATION RE POSSIBLE.
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DII SHALL BE 200' RADIUS TYPICAL UNLESS	
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60 OF 70 project contrac 108023 drawing C160 Η sheet of file 108023SUNRC101_60-70.dwg sheets



LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION ____ SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD _ _ _ _ _ _ _ _ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD

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GENERAL NOTES: 1. HORIZONTAL RA OTHERWISE NOT TRENCHLESS INSTALLATION WORKSPACE

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TRANSITION JOINT BAY (TJB)

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KEY PLAN NOT TO SCALE



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SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING

61 OF 70 project contrac 108023 drawing rev. C161 Η _ of sheets

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION ____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD _ _ _ _ _ _ _ _ _ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES: 1. HORIZONTAL RA

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KEY PLAN NOT TO SCALE



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C. KUNTZ

N. SCOTT

SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 62 OF 70

project contrac 108023 drawing rev. C162 Η _ sheets

sheet of file 108023SUNRC101_60-70.dwg



 LEGEND:

 DC CABLE DUCT BANK

 TRENCHLESS INSTALLATION

 TRENCHLESS INSTALLATION

 SPLICE VAULT (SV)

 PROPERTY LINE

 Control

 ROAD CENTER LINE

 EDGE OF WATER

 RAILROAD

 TRANSITION JOINT BAY (TJB)

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	GENERAL NOTES:			
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	3.	EXISTING UTILITIES NO		
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6. IMAGERY TAKEN FRO
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8. ALIGNMENT SUBJECT PHASE.

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KEY PLAN NOT TO SCALE

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GENERAL	NOTES:

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KEY PLAN NOT TO SCALE



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7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

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9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

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05/22/2020 designed M. DAGENAIS

Sunrise Wind

Powered by Ørsted & Eversource

C. KUNTZ

N. SCOTT

SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING 66 OF 70

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 LEGEND:

 DC CABLE DUCT BANK

 TRENCHLESS INSTALLATION

 TRENCHLESS INSTALLATION

 PROPERTY LINE

 EDGE OF ROAD

 ROAD CENTER LINE

 EDGE OF WATER

 RAILROAD

 TRANSITION JOINT BAY (TJB)

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5. DUCT BANK AND SI ADJUSTMENT DUE

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- 6. IMAGERY TAKEN F
- 7. PROPERTY LINES

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE EDGE OF WATER RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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1.	HORIZONTAL R. OTHERWISE NO
2.	VEGETATION R POSSIBLE.
3.	EXISTING UTILI
4.	DUCT BANK SH

5. DUCT BANK AND SPLICE VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.

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REMOVAL SHALL BE AVOIDED TO THE EXTENT

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IALL MAINTAIN MINIMUM DEPTH OF COVER OF 3 FT IERWISE SHOWN ON DRAWINGS.

6. IMAGERY TAKEN FROM AUTODESK BING MAPS.

7. PROPERTY LINES SHOWN PROVIDED FROM SUNRISE WIND LLC.

8. ALIGNMENT SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

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C. KUNTZ

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05/22/2020 designed M. DAGENAIS

Sunrise Wind

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ____ ROAD CENTER LINE _ _ __ EDGE OF WATER TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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- 7. PROPERTY LINES

8. ALIGNMENT SUBJ PHASE.

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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ____ ROAD CENTER LINE EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. LICENSEE NO. 000165

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05/22/2020 designed M. DAGENAIS

Sunrise Wind

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C. KUNTZ

N. SCOTT

SUFFOLK, NEW YORK SUNRISE WIND NEW YORK CABLE PROJECT DC CABLE ROUTING

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GENERAL NOTES: 1. HORIZONTAL RAI OTHERWISE NOT 2. VEGETATION REI POSSIBLE. 3. EXISTING UTILITI 4. DUCT BANK SHAI UNLESS OTHERV 5. DUCT BANK AND S ADJUSTMENT DU

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LEGEND: DC CABLE DUCT BANK 138kV DUCT BANK - NATIONAL GRID ROUTE 138kV DUCT BANK - LIPA ROUTE TRENCHLESS INSTALLATION TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE _ _ _ EDGE OF WATER RAILROAD

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GENERAL NOTES: 1. HORIZONTAL RAI OTHERWISE NOT 2. VEGETATION REI POSSIBLE. 3. EXISTING UTILITI 4. DUCT BANK SHAI UNLESS OTHERV 5. DUCT BANK AND ADJUSTMENT DU

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- 6. IMAGERY TAKEN
- 7. PROPERTY LINE
- 8. ALIGNMENT SUB PHASE.

KEY PLAN NOT TO SCALE



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KEY PLAN NOT TO SCALE



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LEGEND: DC CABLE DUCT BANK 138kV DUCT BANK - NATIONAL GRID ROUTE 138kV DUCT BANK - LIPA ROUTE TRENCHLESS INSTALLATION TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE EDGE OF ROAD ROAD CENTER LINE ____ EDGE OF WATER -+++++ RAILROAD

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GENERAL NOTES: 1. HORIZONTAL RA OTHERWISE NO 2. VEGETATION RE POSSIBLE. 3. EXISTING UTILIT 4. DUCT BANK SHA UNLESS OTHER 5. DUCT BANK AND ADJUSTMENT DL

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6. IMAGERY TAKEN 7. PROPERTY LINE

8. ALIGNMENT SUE PHASE

KEY PLAN NOT TO SCALE





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6. IMAGERY TAKEN 7. PROPERTY LINE

8. ALIGNMENT SUB. PHASE.

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7.	PROPERTY LINES SHOWN PROVIDED FROM	SUNRISE WIND LLC.						
8.	ALIGNMENT SUBJECT TO CHANGE DURING	DETAILED DESIGN						
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LEGEND: DC CABLE DUCT BANK TRENCHLESS INSTALLATION _____ TRENCHLESS INSTALLATION WORKSPACE SPLICE VAULT (SV) PROPERTY LINE P EDGE OF ROAD _____ ROAD CENTER LINE _ - _ _ _ _ _ EDGE OF WATER _____ RAILROAD TRANSITION JOINT BAY (TJB)

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GENERAL NOTES:

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1. HORIZONTAL RAI OTHERWISE NOT 2. VEGETATION REM POSSIBLE. 3. EXISTING UTILITI 4. DUCT BANK SHAL UNLESS OTHERW 5. DUCT BANK AND S ADJUSTMENT DU

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- 6. IMAGERY TAKEN 7. PROPERTY LINES
- 8. ALIGNMENT SUBJ PHASE.
- NOTES:
- 1. TRANSITION JOIN ARE APPROXIMAT HORIZONTAL DIRE



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LL MAINTAIN MINIMUM VISE SHOWN ON DRAV	DEPTH OF COVER OF 3 FT MNGS.						
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FROM AUTODESK BIN	IG MAPS.						
S SHOWN PROVIDED F	ROM SUNRISE WIND LLC.						
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NOTES:

1. OFFSHORE TOPOGRAPHY TAKEN FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) COAST SURVEY, MAP 12353 (19TH ED., NOV. 2011. LAST CORRECTION: 1/6/2020).

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- 2. ONSHORE TOPOGRAPHY TAKEN FROM AUTODESK INFRAWORKS VERSION 2021.
- 3. VERTICAL DATUM IS DARN/NY NEW YORK STATE PLANE.

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INSERTION POINT					AIR CLEARANCE	S FOR VAL	VE HALL AND [DC YARD				AC SWIT	CHYARD CLEA	RANC		
	NA	D83	UTM 18	N ZONE			LOCATION		VALVE HALL (INDOOR)	DC YARD (OUTDOOR)	Ī		MINIMUM METAL-TO-METAL	GROUND CI	EARANCE	
INT NAME	EAST	NORTH	EAST	NORTH	LATITUDE	LONGITUDE	AIR CLEARANCES PHASE TO GROUND (mm)	OUTDOOR INDOOR	N.A. 3178 mm	3000 mm 9' 10" N.A.		RATED VOLTAGE kV rms	DISTANCE DISCONNECTING SWITCHES, BUS SUPPORTS AND RIGID CONDUCTORS	RECOMMENDED	MINIMUM	VEF DIS SWIT
PLANT FERENCE POINT	E 890214.1599	N 723982.4350	E 663473.6012	N 4519697.6978	N40°48'43.26"	W73°3'42.46"	AIR CLEARANCES PHASE TO PHASE (mm)	OUTDOOR	N.A. 3793	3900 mm 12' 9 1/2" N.A.	-	120	mm / (inches)	mm / (inches)	mm / (inches)	n
									12 5 1/2			130	1000 (03)	1330 (32.3)	1270 (00)	

