# NORTH SENCA SOLAR PROJECT PERMIT APPLICATION NUMBER 23-00036 TABLE OF CONTENTS

## COVER LETTER

EXHIBIT 1 General Requirements	
Appendix 1-A: Certificate of Formation	
EXHIBIT 2 Overview and Public Involvement – CONFIDENTIAL/REDACTED	
Figure 2-1: Regional Facility Location	
Figure 2-2: Facility Layout	
Figure 2-3: Design Constraints – CONFIDENTIAL/REDACTED	
Appendix 2-A: Local Agency and Community Engagement– CONFIDENTIAL/REDACTED	
Appendix 2-B: Record of Activity	
EXHIBIT 3 Location of Facilities and Surrounding Land Use	
Figure 3-1: Topographic Maps	
Figure 3-2: Municipal Boundaries and Taxing Jurisdictions	
Figure 3-3: Existing Land Use	
Figure 3-4: Existing Overhead and Underground Facilities	
Figure 3-5: Parcels within 1000 Feet of the Facility	
Figure 3-6: Zoning Districts	
Figure 3-7: Proposed Land Use	
Figure 3-8: Specially Designated Areas	
Figure 3-9: Recreational Areas and Other Sensitive Land Uses	
Figure 3-10: Aerial Photographs	
Figure 3-11: Facility Layout Overlays	
Figure 3-12: Existing Oil and Gas Wells within the Facility Site	
Appendix 3-A: Adopted Comprehensive Plans	
Appendix 3-B: Permitted and Prohibited Uses	
Appendix 3-C: Magnetometer Survey Report	
EXHIBIT 4 Real Property	
Figure 4-1: Property Boundaries	
EXHIBIT 5 Design Drawings	
Appendix 5-A: Civil Design Drawings	
Appendix 5-B: Electrical Drawings	

EXHIBIT 6 Public Health, Safety and Security

Figure 6-1: Public Health and Safety Appendix 6-A: Site Security Plan Appendix 6-B: Safety Response Plan

#### EXHIBIT 7 Noise and Vibration

Appendix 7-1: List of Modeled Sound Sources Appendix 7-2: List of Sound Receptors Appendix 7-3: Preconstruction Noise Impact Assessment Appendix 7-4: Construction Modeled Sound Levels – Leq (1-second) Appendix 7-5: Project Modeled Sound Levels – Leq (8-hour) Appendix 7-6: Collector Substation Modeled Sound Levels – Leq (1-hour) Appendix 7-7: Collector Substation Layout Appendix 7-8: Manufacturer Sound Level Data Sheets Appendix 7-9: Glossary of Terms

### EXHIBIT 8 Visual Impacts

Appendix 8-A: Visual Impact Assessment

Attachment A. Composite Overlay
Attachment B: Viewpoint Photolog
Attachment C: Visually Sensitive Resources Table
Attachment D: Photosimulations and Wireframe Renderings
Attachment E: Line-of-Sight Cross Sections
Attachment F: Contrast Rating Instructions, Forms, and Panel Information
Attachment G: Stakeholder Outreach Responses

Appendix 8-B: Visual Impacts Minimization and Mitigation Plan

Attachment A - Conceptual Landscape Mitigation Planting Plan
Attachment B- Light Fixture Cut Sheets
Attachment C - Solar Glare Analysis Report

EXHIBIT 9 Cultural Resources – CONFIDENTIAL/REDACTED

Appendix 9-A. Cultural Resources Agency/Stakeholder Correspondence
Appendix 9-B. Phase IA Archaeological Survey Methodology
Appendix 9-C. Phase IA Historic Resources Survey Methodology
Appendix 9-D. Historic Resources Survey Report and Effects Assessment
Appendix 9-E. Phase IB Archeological Survey Report - CONFIDENTIAL/REDACTED
Appendix 9-F. Archeological Avoidance Plan - CONFIDENTIAL/REDACTED
Appendix 9-G. Unanticipated Discovery Protocol

EXHIBIT 10 Geology, Seismology, and Soils

Figure 10-1: Slopes

Figure 10-2: Trenchless Installation Locations

Figure 10-3: USDA Soil Types

Figure 10-4: Bedrock

Appendix 10-A: Geotechnical Engineering Report Appendix 10-B: Karst Survey and Assessment Report

EXHIBIT 11 Terrestrial Ecology

Figure 11-1: Impact to Plant Communities Appendix 11-A: Rare Plant Survey Report– CONFIDENTIAL/REDACTED Appendix 11-B: Plant and Wildlife Species Lists – CONFIDENTIAL/REDACTED

EXHIBIT 12 NYS Threatened or Endangered Species – CONFIDENTIAL/REDACTED Appendix 12-A: Wildlife Site Characterization – CONFIDENTIAL/REDACTED Appendix 12-B. Agency Correspondence – CONFIDENTIAL/REDACTED Appendix 12-C: Breeding Bird Survey Report – CONFIDENTIAL/REDACTED Appendix 12-D: Winter Raptor Survey Report– CONFIDENTIAL/REDACTED Appendix 12-E: Phase 1 Bog Turtle Habitat Assessment Report– CONFIDENTIAL/REDACTED Appendix 12-F: Determination of Occupied Habitat – CONFIDENTIAL/REDACTED Appendix 12-G: Net Conservation Benefit Plan – CONFIDENTIAL/REDACTED

EXHIBIT 13 Water Resources and Aquatic Ecology – CONFIDENTIAL/REDACTED
Figure 13-1: Groundwater Well Offsets – CONFIDENTIAL/REDACTED
Figure 13-2: Groundwater Aquifers and Recharge Areas – CONFIDENTIAL/REDACTED
Appendix 13-A: Water Well Survey Form
Appendix 13-B: Water Well Survey Responses and Agency Correspondence – CONFIDENTIAL/REDACTED
Appendix 13-C: Stormwater Pollution Prevention Plan
Appendix 13-D: Spill Prevention, Control, and Countermeasure Plan
Appendix 13-E: NYS Surface Waters Jurisdictional Determination

#### EXHIBIT 14 Wetlands

Figure 14-1: Delineated Wetlands and Streams

Figure 14-2: Impacts to Wetlands and Streams

Appendix 14-A: Wetland and Stream Delineation Report - CONFIDENTIAL/REDACTED

Appendix 14-B: Wetlands Functions and Values Assessment

Appendix 14-C: NYS Wetlands Jurisdictional Determination

Appendix 14-D: Wetland Restoration and Mitigation Plan

**EXHIBIT 15 Agricultural Resources** 

Figure 15-1: NYS Agricultural Districts

Figure 15-2: National Agricultural Statistics Data - 2022

Figure 15-3: Active Agricultural Areas

Figure 15-4: Landowner Imposed Development Restrictions

Figure 15-5: Agricultural Drainage Systems

Figure 15-6: Mineral Soil Groups

Appendix 15-A: Agricultural Survey Responses – CONFIDENTIAL/REDACTED

Appendix 15-B: Agricultural Plan

Appendix 15-C: Drainage Remediation Plan

#### EXHIBIT 16 Effect on Transportation

Figure 16-1 Site Location Map

Figure 16-2 Main Transportation Approach Routes

Figure 16-3 Speed Limits and Traffic Control

Figure 16-4 Traffic Volumes

Figure 16-5 Pavement Condition

Figure 16-6 Bridge/Culvert Information

Figure 16-7 Crash History

Figure 16-8 Emergency Service Locations

Figure 16-9 Transportation Constraints

Appendix 16-A Applicable Sight Distance Criteria from AASHTO and NYSDOT

Appendix 16-B Sight Distance Photos at Site Driveways

Appendix 16-C Culvert Inventory Photo Log

Appendix 16-D Crash History Spreadsheet from NYSDOT

Appendix 16-E Waterloo School District Bus Routes

Appendix 16-F FAA Notice Criteria Tool

EXHIBIT 17 Consistency with Energy Planning Objectives

EXHIBIT 18 Socioeconomic Effects – CONFIDENTIAL/REDACTED Appendix 18-A: Economic Impact and Land Use Analysis

EXHIBIT 19 Environmental Justice Figure 19-1: Potential Environmental Justice Area

EXHIBIT 20 Effect on Communications

Figure 20-1: Communication Systems – CONFIDENTIAL/REDACTED

EXHIBIT 21 Electric System Effects and Interconnection Appendix 21-A: System Reliability Impact Study – CONFIDENTIAL/REDACTED

EXHIBIT 22 Electric and Magnetic Fields

Appendix 22-A: Electric and Magnetic Field Study

EXHIBIT 23 Site Restoration and Decommissioning Appendix 23-A: Decommissioning and Restoration Plan

EXHIBIT 24 Local Laws and Ordinances

Figure 24-1: Setbacks and Zoning Appendix 24-A: Local Laws and Ordinances Appendix 24-B: Local Law Interpretation Consultation Appendix 24-C: Facility Parcel Lot Coverage Table

EXHIBIT 25 Other Permits and Approvals