OU-2 East/OU-3 Cover System Modification Construction Completion Report

Former ExxonMobil Oil Buffalo Terminal

Clean Capital Elk Solar Site

NYSDEC Site #C915201B & #C915201D

Location:

503 Elk Street

Buffalo, New York

Prepared for:

Inovateus Solar, LLC

LaBella Project No.

2241401

January 2026

LaBella

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CERTIFICATIONS

I, Daniel Noll, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for the implementation of the cover system modifications made for the construction of a solar array, and I certify that the work was completed in accordance with the respective work plans and Site Monitoring Plan. I certify that the data submitted to the Department with this Report demonstrates that the work was completed in accordance with all applicable statutes and regulations.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Daniel Noll, of LaBella Associates, D.P.C. at 300 State Street, Rochester, NY, am certifying as Owner's Designated Site Representative for the Site.



081996	3/10/2026	
NYS Professional Engineer #	Date	Signature

1.0 INTRODUCTION AND BACKGROUND

1.1 Introduction

LaBella Associates, DPC (LaBella) has prepared this Cover System Modification Construction Completion Report on behalf of Inovateus Solar to document modifications to the existing cover system completed during the construction and installation of the photovoltaic (PV) solar array (the Project) at the former ExxonMobil Oil Buffalo Terminal Site, specifically the central area of Operable Unit No.3 (OU-3) and the south-central portion of OU-2 East.

The purpose of this report is to document modifications made to the existing Site cover system during construction of the Project and to certify that all modifications were completed in accordance with NYSDEC-approved engineering documents, approved design drawings, and applicable federal, state, and local regulations.

1.2 Site Description

The solar array is located within Operable Unit 3 (OU-3) which compromises approximately 33.12 acres at 503 Elk Street in the City of Buffalo, Erie County, New York **Figure 1**. OU-3 consists of three distinct portions: the eastern portion (625 Elk Street), comprising approximately 15.68 acres, which is currently operated as a petroleum products storage and distribution terminal owned by Buckeye Terminals, LLC (Buckeye); the central portion, comprising approximately 11.0 acres at 503 Elk Street, which is occupied primarily by the Project's solar array, with the exception of a small structure housing the active Groundwater Treatment System (GWTS); and the western portion (1 Babcock Street), consisting of approximately 6.44 acres, which contains two vacant structures, including a three-story building and a three-bay garage building, and is currently utilized for staging incomplete truck chassis and semi-truck driver training activities. This report addresses the approximately 11.0-acre solar array area located within the central portion of OU-3. OU-3 is bounded to the south by the Buffalo River; see **Figure 3**.

1.3 Background

The NYSDEC requested a work plan for the proposed solar facility by correspondence dated March 3, 2021. A Change of Use (COU) Form was submitted on January 18, 2021, and a COU Acknowledgement Letter was issued on March 1, 2021. A Notice of Transfer of the Certificate of Completion (COC) was recorded with Erie County on January 4, 2022, adding Elk Street Solar LLC to the COC. A Work Plan was submitted on February 1, 2022, detailing the solar work, and was approved by NYSDEC on February 3, 2022.

An Excavation/Cover System Modification Notification was submitted on March 6, 2024, detailing proposed cover system changes for OU-2 East. This differed from the 2022 Work Plan by refining the approach to cover system impacts, including adjustments to excavation depths, cover restoration methods, and layout to address field conditions and NYSDEC

requirements. The modification was approved via email on March 8, 2024. A revised Work Plan was submitted on March 25, 2024, incorporating these modifications and addressing NYSDEC comments; this differed from the 2022 Work Plan by including updated construction methods, additional cover system protections, and alignment with the Excavation Work Plan (EWP) requirements in the Site Management Plans (SMPs) for OU-3 and OU-2 East dated December 2019. The revised Work Plan was approved by NYSDEC on March 25, 2024, to ensure compliance with the EWP included in the SMP.

The solar array was installed entirely within the existing cover systems of OU-3 and OU-2 East. A soil resistivity test was conducted July 24, 2023, to support the design in testing for effective grounding system that would not impact the existing cover system. The documentation for this testing is presented in the July daily sheet. Survey work for the solar array began in December 2023, prior to approval of the Work Plan, however it required no intrusive work. Construction activities associated with the Project began in March 2024 and were substantially completed by August 2024. Electrical interconnection activities were finalized in June 2025, and the solar array was successfully completed and is currently fully operational.

Change of use forms and approval letters can be found in **Appendix 2,** including Project Drawings of cover system modifications.

1.4 Project Overview

The major components of the Project documented by LaBella include:

- Final cover system grading
- Fencing
- Stormwater detention basin modification (culvert)
- Utility pole installation
- Access road installation
- Preparation of as-built drawings documenting design deviations and modifications
- Construction inspection and certification
- Implementation of health and safety procedures

1.5 Solar Array Layout and Infrastructure

The PV system was installed in compliance with the NYSDEC-approved Work Plan (LaBella Associates, March 25, 2024) and associated construction drawings. The PV system occupies approximately 11 acres within portions of OU-3 and OU-2 East and is designed to generate approximately 2.3 megawatts of alternating current (MWac).

The solar array consists of approximately 28 east–west oriented rows located in the central portion of OU-3, spaced approximately 11 feet apart front-to-back edge of rows and supported

by surface-mounted ballast racking. The layout was designed to avoid interference with the Groundwater Extraction and Treatment System (GWETS) operations, access roads, and parking areas. A minimum 10-foot buffer was maintained around existing monitoring wells, vents, extraction wells, and conveyance piping. This setback provides sufficient space for the continued operation and maintenance of the extraction wells and piping. The modules and electrical equipment also were setback 5' and 10', respectively, from existing gas vents present on OU-3.

Within OU-3, electrical wiring between modules and rows is supported using covered cable trays mounted on ballasted concrete piers or cable hanger systems attached to ballasted poles above grade. Within OU-2 East, red concrete-encased conduit (installed above the demarcation layer) extends northward along the berm to seven utility poles to facilitate interconnection with the National Grid system. A portion of the underground bermed utilities extending south toward the solar array is not encased in red concrete, which is depicted on **Figure 2.**

Switchgear, transformers, and associated equipment have been installed on a concrete equipment pad located directly east of the GWTS parking area. Site access is provided by an existing asphalt roadway serving the GWTS and an access road to the interconnection area. The PV facility is fully enclosed with perimeter fencing and secure gates.

1.6 Regulatory Framework and Approvals

A work plan was requested by the NYSDEC in a letter dated March 3, 2021 subsequent to the submittal of a Change of Use Form in January 2021 for development of the solar facility. A revised work Plan was approved in March 2024 for development of the solar facility. The Project was performed in accordance with the following governing documents and approvals:

- Brownfield Cleanup Agreement (October 2, 2017, Revised in January, September, and October of 2019)
- Change of Use From (January 18, 2021)
- Change of Use Acknowledgement (March 1, 2021)
- Notice of Transfer (January 4, 2022)
- February 1, 2022 Work Plan was submitted detailing the solar work
- February 3, 2022 the Work Plan was approved by NYSDEC
- March 6, 2024 an Excavation/Cover System Modification Notification was submitted detailing cover changes proposed for OU-2 East specifically
- March 8, 2024, the Excavation/Cover System Modification was approved via email
- March 25, 2024, a revised Work Plan was submitted

- Site Management Plans (SMPs) for OU-3 and OU-2 East
- Excavation Work Plan (EWP) for OU-3 and OU-2 East (presented in the SMP)
- Permit Approvals (Building and Electrical Permits; **Appendix 8**)

1.7 Consultants and Contractors

Consultants and contractors that performed the work associated with the solar array construction and their roles are identified below:

- Inovateus – Project management, design, construction coordination and oversight, solar panel installation
- LaBella Associates – Project management, remedial planning and design, remedial construction oversight, environmental monitoring and reporting, waste management, general construction
- Milestone Construction – General contractor performing limited excavation, pipe culvert installation, backfilling, paving, and site restoration
- Schuler-Haas – Electrician
- Crawford & Associates – Project Engineer
- Greenman-Pederson, Inc. – Project Surveyor

2.0 COVER SYSTEM MODIFICATION CONSTRUCTION ACTIVITIES

This report documents modifications made to the existing Site cover system during the construction of the solar array. Modifications included the construction of a new asphalt access road, installation of perimeter fencing, modification of a stormwater detention basin, utility pole excavations/installation, underground conduit installation, and concrete encasement of electrical conduits.

2.1 Survey – Liner Repair

At the onset of construction, on December 8, 2023, during the survey and layout task of the Project, numerous layout/location stakes inadvertently penetrated the liner system. The location of the liner perforations were hand excavated and repairs were completed in January 2024. The documentation for these repairs is presented in **Appendix 1**.

2.2 Fencing / Concrete Pads / Anchors – Cover System Modifications

All solar racking components were surface-mounted, and construction activities preserved the integrity of previously certified engineering controls. Installation of perimeter fencing and concrete pad installation for electrical equipment was completed as part of the cover system modifications. Existing crushed stone and asphalt surfaces remained intact and undisturbed with concrete installed above. Please refer to the Project Drawings included in **Appendix 2 and 7.**

2.3 Drainage Swale Modification and Paving Access Road

Site preparation for the swale modification and access road paving commenced in August 2023 and included the installation of erosion and sediment control measures.

The modification to the stormwater management system within OU-2 East was constructed at the eastern end of the existing drainage swale. The modification was designed to manage runoff generated by full development of OU-2 East and to ensure that discharges to the Buffalo Sewer Authority outfall to the Buffalo River are not adversely impacted.

The newly installed access road was constructed above the OU-2 East cover system without intrusion. The road serves as an access point for National Grid to service equipment should the need arise.

The swale was constructed above the demarcation layer and was modified to maintain access to the utility poles. The cover system was not compromised during construction of the swale. However, the demarcation layer (snow fence) within the swale area was replaced following the removal of organic material, which disturbed the existing demarcation layer. The cover system remains fully intact and continues to function as designed.

Please refer to **Appendix 2 and 7**, for further details on the Drainage Swale Modification and the paving of the Access Road.

2.4 Interconnection Area – Trenching/Conduit/Pole Excavation/Installation/Waste Disposal

Public utilities within the work area were located and marked via *Dig Safely New York* prior to the start of all intrusive activities. Additionally, historic site plans and record drawings were consulted for the location of private on-site utilities prior to conducting intrusive activities.

An underground conduit trench was excavated to the demarcation layer in OU-2 East to connect the solar facility to the new interconnection utility poles. The conduit was encased in 4,000 psi concrete containing red dye with a minimum 8-inch, slightly bermed cover material; see **Figure 2**. As this conduit run leaves OU-3 where it was covered with stone, it transitions to being encased in red concrete at the fenceline/access road intersect. The stone bermed area is above the demarcation layer. It should be noted that the import material tickets from Inovateus were not obtained and are not included in the total import amounts detailed in **Appendix 6**.

Soft-dig excavations were performed to prepare for the installation of several utility poles in the interconnection area. National Grid subsequently installed the poles and initiated electrical tie-in activities with Schuler-Haas. Soil and waste generated during the excavations were sampled and characterized. Once approved for off-site disposal, the material was transported to Republic Services in Niagara Falls, New York. Waste manifests are provided in **Appendix 3**, and analytical results in **Appendix 4**. A Community Air Monitoring Plan (CAMP) was implemented during intrusive and soil load-out activities and is included in **Appendix 5**.

All disturbed areas were restored with approved backfill and/or asphalt. Import requests for construction materials are included in **Appendix 6**. Please note that although approved for use, sand was not imported to the Site for construction. At all intrusive areas, the demarcation layer was restored with orange snow fence.

3.0 COVER SYSTEM MODIFICATION INSPECTIONS

3.1 Post-Construction Inspections

During and following the completion of construction, LaBella personnel conducted inspections of the cover system modifications to verify compliance with NYSDEC-approved plans and confirm that site controls were properly implemented, replaced, and functioning as intended.

Existing crushed stone cover materials, asphalt surfaces, and perimeter fencing were observed to be intact and undisturbed. Newly constructed asphalt and stone access roads within OU-2 East were installed with a minimum two percent slope to maintain positive drainage toward the upstream swale and OU-2 East stormwater detention basin. For all intrusive locations, the demarcation layer (orange snow fencing) was restored.

3.2 Site Controls

Site controls utilized during construction included:

- Environmental monitoring and recordkeeping performed by LaBella
- Temporary fencing and secured gates to prevent unauthorized access
- Stabilized construction entrances using NYSDEC-approved clean stone
- Secure stockpiling of imported fill along the Site perimeter
- Semiannual inspections by National Grid within the lease (Interconnection) area

3.3 Engineering Controls

Solar array construction did not compromise existing Site Engineering Controls (ECs). The soil and stone cover systems remain intact, and stormwater management features continue to function as designed. Inspections evaluated included:

- Surface cracking
- Surface ponding
- Drainage patterns and erosion
- Access road conditions
- Perimeter fencing and site security

Engineering controls associated with the OU-2 East and OU-3 cover system remain intact and unaltered. and all work was performed in accordance with the design drawings, as

included in **Appendix 2**. **Appendix 7** contains Record As-Built Drawings/Final Project Drawings that depict the solar array as constructed, including field modifications to the original design that were constructed to accommodate field conditions encountered during construction. These drawings have been stamped and approved by Crawford & Associates.

A photo log of construction activities is included in **Appendix 9**.

4.0 GROUNDWATER MONITORING SYSTEM

The existing groundwater monitoring program remains in effect for OU-2 East and includes monthly gauging, quarterly sampling, and annual site inspections. All monitoring wells within OU-3 remain intact and fully functional following construction of the solar array. Two of the four monitoring wells in OU-2 East (MW-OU2-1 and MW-OU2-2) were converted from stick-up completions to flush-mounted protective casings in August 2024 to accommodate the installation of the access road. The reconstructed wells were resurveyed on February 19, 2025, and the updated survey data are provided in **Table 1** below. Site documentation has been updated to reflect the revised elevations for these wells. Well construction logs can be found in **Appendix 10**.

The fixed-tilt solar PV System utilizing Remote Net Metering (RNM) has been installed and maintained by Clean Capitol. Ongoing compliance with the Site Management Plans (SMPs) for OU-3 and OU-2 East will continue to be the responsibility of the owner, Elk Street Commerce Park, LLC (ESCP).

Table 1
Survey Details of Reconstructed Wells

Well IDs	North	East	Flush-mount Casing Elevation	Ground Elevation	Top of Casing Elevation
MW-OU2-1	1043743.10	1080727.72	586.28	586.21	585.89
MW-OU2-2	1043635.70	1081143.86	586.67	586.60	585.87

5.0 LIMITATIONS

The information presented in this report is based on data gathered in accordance with generally acceptable professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the Site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.) as cited herein, was used in the assessment of the Site. The accuracy of the conclusions drawn from this assessment is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, LaBella is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based upon the facts currently available with the limits of the existing data, scope of services, budget and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically Labella's' intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action expect where explicitly stated as such. LaBella makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not be construed as legal advice.

This report has been completed and prepared on behalf of and for the exclusive use of Inovateus Solar, LLC. Any reliance on this report by a third party is at such party's sole risk.

FIGURES



LaBella
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Elk Solar Construction Completion Report

503, 555, and 625 Elk Street,
Buffalo, NY
NYSDEC Site No. C915201D

N

0 1,000 2,000 Feet

Legend

Elk Solar Site Boundary

Sources: LaBella 2026; USGS, 2013

Elk Solar Site Location Map

Figure 1

LaBella Project No: 2241401
Date: January 2026

Creator: EH

Path: \\labdev-a102-fs2.cash.lab\GIS\Projects\Elk_Street_Commerce_Park\2231211_Commerce_Park\Maps\APRX\2026_01\2026_01.aprx



Creator: EH

Path: \\labdev-a102-fs2.cash.lab\GIS\Projects\Elk_Street_Commerce_Park\2231211_Commerce_Park\Maps\APRX\2026_01\2026_01.aprx

LaBella
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Elk Solar Construction Completion Report

503, 555, and 625 Elk Street,
Buffalo, NY
NYSDEC Site No. C915201D

N

0 25 50 Feet

Legend

- Utility Pole
- Interconnected Utility Area
- Bermed Crossing
- PVC Conduit (encased in red concrete)
- Existing Fence
- New Ballasted Fencing
- Existing Blacktop

NOTE

The cover system is 1'of stone that the solar array sits atop.

Sources: LaBella 2026; Google Earth, Microsoft, Vantor

OU-2 East Interconnection Area Map

Figure 2

LaBella Project No: 2241401
Date: January 2026



LaBella
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Elk Solar Construction Completion Report

503, 555, and 625 Elk Street,
Buffalo, NY
NYSDEC Site No. C915201D

N

0 100 200 Feet

Legend

- Existing Fencing
- Culvert

NOTE

The cover system is 1'of stone that the solar array sits atop.

Sources: LaBella 2026; Google Earth, Microsoft, Vantor

OU3 Site Map

Figure 3

LaBella Project No: 2241401
Date: January 2026

Creator: EH

Path: \\labdev-s102-fs2.cash.lab\GIS\Projects\Elk_Street_Commerce_Park\2231211_Commerce_Park\Maps\APRX\2026_01\2026_01.aprx

APPENDIX 1

Clean Capital/Inovatues Liner Repair QA/QC Report
(February 6, 2024)

Clean Capital/Inovateus Liner Repair QA/QC Report

Location:

503 Elk Street
Buffalo, New York 14210
Elk Street Commerce Park
Elk Street Solar
NYSDEC Site No. C915201D

Prepared for:

Todd P. Collins Sr.
Inovateus Solar
19890 State Line Rd.
South Bend, IN 46637

LaBella Project No. 2211232

February 6, 2024

LaBella
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300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282

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Attachment 3 – Trial Seam Log
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CERTIFICATIONS

I, Daniel Noll, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the liner repair work, and I certify that the work was completed in accordance with the Liner Repair Procedure. I certify that the data submitted to the Department with this Report demonstrates that the repair work was completed in accordance with all applicable statutes and regulations.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Daniel Noll, of LaBella Associates, D.P.C. at 300 State Street, Rochester, NY, am certifying as Owner's Designated Site Representative for the Site.

081996	3/1/2024	
NYS Professional Engineer #	Date	Signature



1.0 INTRODUCTION

LaBella Associates, D.P.C. ("LaBella"), completed a geomembrane inspection at the property located at 503 Elk Street, Buffalo, New York, hereinafter referred to as the "Site" on December 26th and December 27th. The Site is listed as a part of the NYSDEC Brownfield Cleanup Program (Site No. C915201D) with various environmental controls including a cover system. The geomembrane liner on the Site is located under an average of one foot of clean stone cover.

2.0 BACKGROUND

Between December 7th and December 8th GPI, an Inovateous Solar sub-contractor, was on site to complete a survey mark out for the solar ballast placement in the northeast corner of the Site. On Friday, December 8th, 2023, a LaBella representative at the Site observed GPI surveyors placing stakes into the subsurface of the Site. The LaBella representative approached the GPI survey team to discuss their work and learned that three-foot wooden stakes and ten-inch metal stakes were being placed and that the depths of the stake advancement into the subsurface of the Site were unknown. The GPI survey team also stated that they were not made aware of the geomembrane liner located at the Site that could not be punctured or damaged. A total of 306 metal and wood stakes were installed to unknown depths, with the potential to have damaged or penetrated the geomembrane barrier at numerous locations.

On January 9th, 2024, GPI was back on-site with a LaBella representative to complete an evaluation of the geomembrane to determine if any damage had occurred. The stakes were grouped into sets of four based on the distance between each stake. Each set of four stakes included two wooden and two metal stakes and was referred to as a Stake Group. To assess the potential for damage to the geomembrane/liner a hole was dug down to the geomembrane proximate to each stake group. The depth of the geomembrane was measured along with the visible height of the wooden stakes. The depth of the wooden stakes was determined by subtracting the visible height of the stake from three feet, the overall stake length. The depths of the wooden and metal stakes were then compared to the depth of the geomembrane. Areas, where the stake depths were within 1 inch of the geomembrane depth, had each stake location dug up for visual inspection of the geomembrane. A total of twenty-two stake groups were determined to be within 1 inch of the geomembrane. Damage including punctures and dimples was identified at seventeen of the twenty-two stake groups. Refer to Figure 2 for damaged Stake Group locations.

3.0 SUMMARY OF WORK

On Thursday, January 25, 2024, work was completed to prepare the known, damaged locations for geomembrane repair work scheduled to begin on January 30, 2024. The work involved removing additional gravel from each stake location to create approximately 1.5 feet of space between the damage in the geomembrane and the stone cover. The work was completed by GPI and Inovateous with a LaBella representative documenting the work. Additional damage to the geomembrane was noted during the gravel removal at three locations, Row 51 Ballast A4, Row 55 Ballast B2, and Row 55 Ballast A10. Photographs of the additional damage and the completed repairs are included in the Photo Log in Attachment 1.

Chenango Contracting Inc. was on Site on January 30, 2024, to complete the geomembrane repair

work per the Chenango Contracting Repair Procedure that was provided prior to repair work commencing. The geomembrane repair scope included peel and shear strength testing using a field tensiometer, the use of a seam welder for patching, and vacuum testing at each repair location. A copy of the procedure is included in Attachment 2.

A trial seam weld was completed using the welding gun and tensiometer to complete peel and shear strength testing before the geomembrane repairs began. A copy of the trial seam log is included in Attachment 3. A total of 55 repairs were completed by Chenango Contracting, 52 of the repairs were completed via the use of a welding rod and placing a bead of geomembrane-like material over the damaged area. Three locations were repaired by seam welding a patch of geomembrane material over the damaged area. Vacuum testing was performed at each repair location to ensure a proper seal, and all repair locations passed the vacuum testing.

A LaBella representative completed a repair log documenting each repair location, including the approximate size of the repair and vacuum test results. A copy of the repair log is included in Attachment 4. Representative photographs of repairs were also taken and are included in the photo log in Attachment 1.

4.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Report Prepared By:

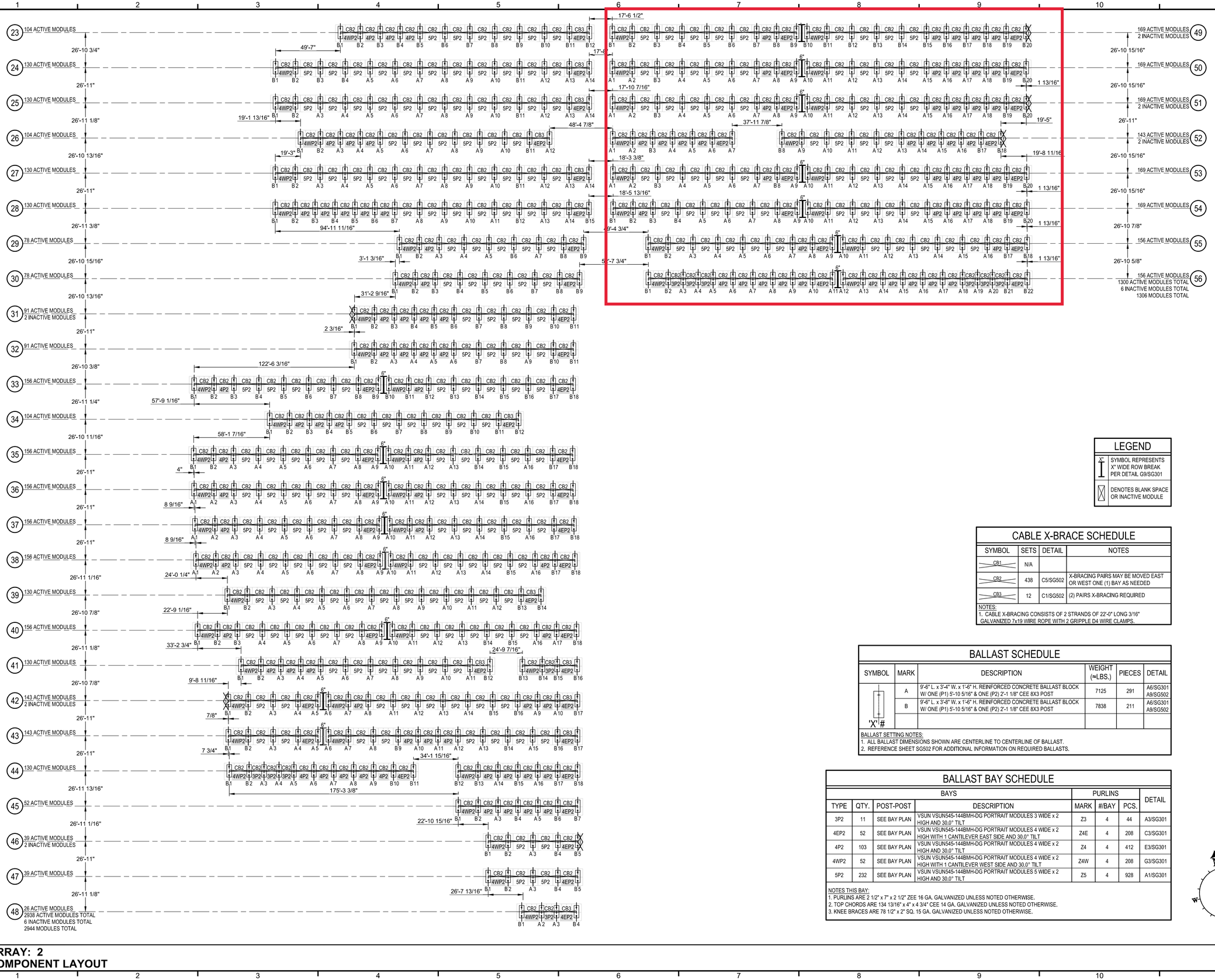
Christopher Finn

Christopher Finn
Environmental Scientist

Report Reviewed By:

Andrew Janik
Project Manager

FIGURES



LEGEND

X"	SYMBOL REPRESENTS X" WIDE ROW BREAK PER DETAIL G9/SG301
	DENOTES BLANK SPACE OR INACTIVE MODULE

CABLE X-BRACE SCHEDULE

SYMBOL	SETS	DETAIL	NOTES
CB1	N/A		
CB2	438	C5/SG502	X-BRACING PAIRS MAY BE MOVED EAST OR WEST ONE (1) BAY AS NEEDED
CB3	12	C1/SG502	(2) PAIRS X-BRACING REQUIRED

NOTES:
1. CABLE X-BRACING CONSISTS OF 2 STRANDS OF 22'-0" LONG 3/16" GALVANIZED 7x19 WIRE ROPE WITH 2 GRIPPLE D4 WIRE CLAMPS.

BALLAST SCHEDULE

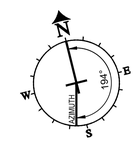
SYMBOL	MARK	DESCRIPTION	WEIGHT (≈LBS.)	PIECES	DETAIL
'X' #	A	9'-6" L. x 3'-4" W. x 1'-6" H. REINFORCED CONCRETE BALLAST BLOCK W/ ONE (P1) 5'-10 5/16" & ONE (P2) 2'-1 1/8" CEE 8X3 POST	7125	291	A6/SG301 A9/SG502
	B	9'-6" L. x 3'-8" W. x 1'-6" H. REINFORCED CONCRETE BALLAST BLOCK W/ ONE (P1) 5'-10 5/16" & ONE (P2) 2'-1 1/8" CEE 8X3 POST	7838	211	A6/SG301 A9/SG502

BALLAST SETTING NOTES:
1. ALL BALLAST DIMENSIONS SHOWN ARE CENTERLINE TO CENTERLINE OF BALLAST.
2. REFERENCE SHEET SG502 FOR ADDITIONAL INFORMATION ON REQUIRED BALLASTS.

BALLAST BAY SCHEDULE

BAYS				PURLINS			
TYPE	QTY.	POST-POST	DESCRIPTION	MARK	#/BAY	PCS.	DETAIL
3P2	11	SEE BAY PLAN	VSUN VSUN545-144BMH-DG PORTRAIT MODULES 3 WIDE x 2 HIGH AND 30.0° TILT	Z3	4	44	A3/SG301
4EP2	52	SEE BAY PLAN	VSUN VSUN545-144BMH-DG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 30.0° TILT	Z4E	4	208	C3/SG301
4P2	103	SEE BAY PLAN	VSUN VSUN545-144BMH-DG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 30.0° TILT	Z4	4	412	E3/SG301
4WP2	52	SEE BAY PLAN	VSUN VSUN545-144BMH-DG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 30.0° TILT	Z4W	4	208	G3/SG301
5P2	232	SEE BAY PLAN	VSUN VSUN545-144BMH-DG PORTRAIT MODULES 5 WIDE x 2 HIGH AND 30.0° TILT	Z5	4	928	A1/SG301

NOTES THIS BAY:
1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.
2. TOP CHORDS ARE 134 13/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.
3. KNEE BRACES ARE 78 1/2" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.



A1
SCALE: 1/32" = 1'-0"

ARRAY: 2
COMPONENT LAYOUT

terrasmart™
6715 STEGER DRIVE
CINCINNATI, OH 45237
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

STATE OF NEW YORK · MOHAMMED AHMED ALI · LICENSED PROFESSIONAL ENGINEER · 082167

GROUND MOUNT
FOR
INOVATEUS SOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
8	10/26/23	FOR CONSTRUCTION (R1)
7	10/12/23	FOR CONSTRUCTION
6	10/06/23	FOR REVIEW (R1)
5	09/14/23	FOR REVIEW
4	08/08/23	FOR PERMIT
3	08/04/23	90% REVIEW
2	07/20/23	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
ELK STREET

503 ELK ST.
BUFFALO, NY 14210

TERRASMART PROJECT No.: 2335006

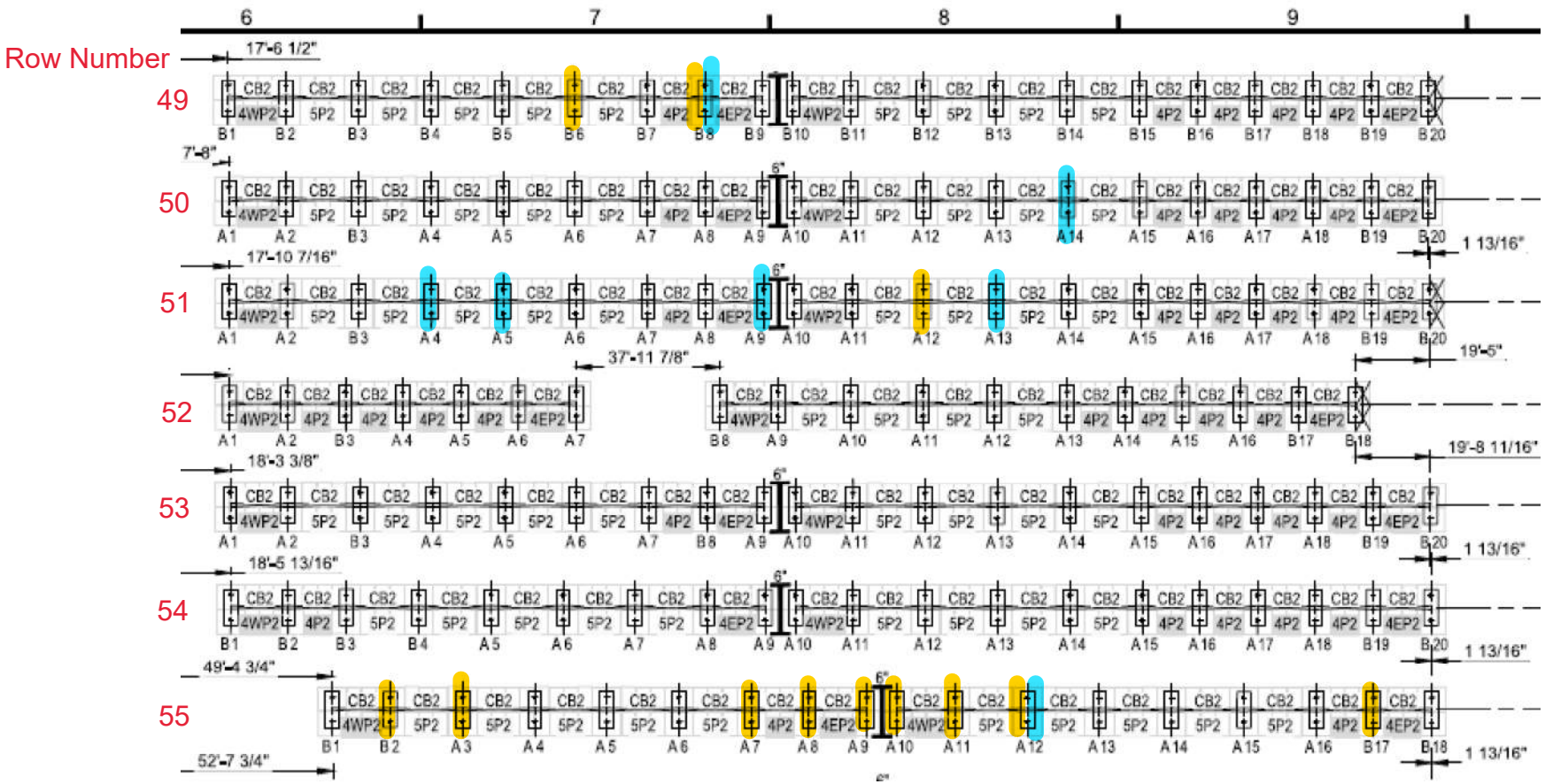
DRAWN BY: KND
REVIEWED BY: BDS/LG

SHEET TITLE:
ARRAY: 2
COMPONENT LAYOUT

SHEET No.:
SG102

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S:\PBB Solar\Design\2023 Jobs\2335006 - Inovateus Solar - Elk Street Brownfield, NY\Drawings\2335006-R3.dwg, 10/26/2023 9:38:51 AM, kdevictor



Yellow Highlighted indicates a hole in geomembrane

Blue highlight indicates a divet/dimple or a potential defect at the location

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 26, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
49	B1	13.0	10	10	10.0	10.0
49	B2	13.0	10	10	9.5	9.5
49	B3	12.5	10.25	10	9.0	9.5
49	B4	12.0	10.25	10	9.0	8.0
49	B5	12.0	10	10	9.0	9.5
49	B6	10.0	10	10	9.0	9.5
49	B7	11.0	10.25	10	9.0	10.0
49	B8	11.0	10	10	8.5	9.5
49	B9	11.0	10	10	8.5	10.0
49	B10	13.0	10	10	10.5	9.5
49	B11	12.0	10	10	8.5	9.0
49	B12	11.0	10	10	9.5	9.5
49	B13	13.0	10	10	9.5	9.5
49	B14	14.0	10	10	8.0	8.0
49	B15	13.0	10	10	8.0	8.5
49	B16	13.5	10	10	8.0	8.0
49	B17	14.5	10	10	8.5	9.0
49	B18	13.5	10	10	8.0	7.5
49	B19	11.5	10	10	8.0	8.0
49	B20	13.0	10	10	9.0	8.0

Metal 1 and Wood 1 are Western Stakes
Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner
Stake depth exceeds liner depth

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 26, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
50	A1	15.5	10	10	9.5	10.5
50	A2	12.5	10	10	9.5	9.5
50	B3	12.5	10	10	9.0	10.0
50	A4	13.0	10	10	11.5	10.0
50	A5	12.5	10	10	11.0	10.5
50	A6	13.0	10	10	11.0	10.0
50	A7	12.0	10	10	10.0	10.5
50	A8	12.5	10	10	10.5	10.0
50	A9	11.5	10	10	10.5	10.5
50	A10	13.0	10	10	11.0	10.5
50	A11	12.0	10	10	10.5	10.5
50	A12	12.5	10	10	10.5	10.5
50	A13	12.0	10	10	10.0	10.0
50	A14	11.5	10	10	10.0	11.0
50	A15	12.5	10	10.25	8.0	10.0
50	A16	13.0	10	10	9.0	9.5
50	A17	12.0	10	10	10.0	10.5
50	A18	13.0	10	10	11.0	11.5
50	B19	14.0	10	10	11.0	10.5
50	B20	14.5	10	10	10.5	12.5

Metal 1 and Wood 1 are Western Stakes
Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner
Stake depth exceeds liner depth

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 26, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
51	A1	13.0	10	10	11.0	11.0
51	A2	13.5	10	10	11.0	11.5
51	B3	13.5	10	10	11.0	11.5
51	A4	12.5	10	10	12.0	10.5
51	A5	13.0	10	10	10.5	12.5
51	A6	13.5	10	10	10.5	11.0
51	A7	13.5	10	10	11.0	12.0
51	A8	13.0	10	10	11.0	10.0
51	A9	13.5	10	10	12.0	13.0
51	A10	13.5	10	10	11.5	11.5
51	A11	13.0	10	10	11.0	11.5
51	A12	12.0	10	10	11.5	11.5
51	A13	12.0	10	10	10.5	12.0
51	A14	12.0	10	10	11.0	11.0
51	A15	12.5	10	10	11.0	11.0
51	A16	13.0	10	10	10.5	9.5
51	A17	12.0	10	10	11.5	11.5
51	A18	12.5	10	10	11.5	10.5
51	B19	12.0	10	10.25	10.5	11.0
51	B20	15.0	10	10	10.5	11.0

Metal 1 and Wood 1 are Western Stakes
Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner
Stake depth exceeds liner depth

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 26, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
52	A1	12.0	10	10	11.0	10.5
52	A2	13.0	10	10	10.5	11.0
52	B3	12.5	10	10	12.0	11.5
52	A4	12.5	10	10	10.0	9.5
52	A5	11.5	10	10	10.0	10.5
52	A6	13.5	10	10	10.5	11.0
52	A7	13.0	10	10	10.5	11.0
52	B8	13.0	10	10	10.5	12.0
52	A9	13.5	10	10	10.5	11.0
52	A10	14.0	10	10	11.0	11.0
52	A11	14.0	10	10	11.0	11.0
52	A12	13.5	10	10	10.0	9.5
52	A13	12.0	10	10	8.5	8.5
52	A14	12.5	10	10	10.0	8.5
52	A15	13.5	10	10	10.0	10.5
52	A16	13.5	10	10	10.5	11.0
52	B17	13.0	10.25	10	9.5	11.0
52	B18	12.0	10	10	10.5	8.5

Metal 1 and Wood 1 are Western Stakes
Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner
Stake depth exceeds liner depth

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 27, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
53	A1	12.0	10	10	-	-
53	A2	12.0	9.5	10	11.0	8.0
53	B3	12.5	10	10	11.0	9.0
53	A4	12.0	10	10	8.0	11.0
53	A5	12.0	10	10	9.5	10.0
53	A6	13.0	10	10	10.0	10.0
53	A7	13.0	10	10	9.0	10.0
53	B8	12.0	10	10	9.5	10.5
53	A9	12.5	10	10	9.0	9.5
53	A10	12.0	10	10	9.5	10.5
53	A11	13.0	10	10	10.0	10.5
53	A12	12.5	10	10	10.0	10.5
53	A13	13.0	10	10	9.0	10.5
53	A14	12.5	10	10	9.0	9.0
53	A15	13.0	10	10	9.5	9.0
53	A16	12.0	10	10	8.5	9.0
53	A17	14.0	10	10	8.5	11.5
53	A18	12.0	10	10	10.0	10.5
53	B19	13.0	10	10	10.0	10.5
53	B20	13.0	10	10.25	10.0	9.0

Metal 1 and Wood 1 are Western Stakes
Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner
Stake depth exceeds liner depth

Wooden stakes were removed from location A1 prior to investigation

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 27, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
54	B1	14.5	10	10	10.0	11.0
54	B2	12.0	10	10	10.0	10.0
54	B3	11.0	10	10	8.5	9.0
54	B4	10.5	10	10	8.5	10.5
54	A5	14.5	10	10	8.5	8.0
54	A6	12.5	10	10	8.5	8.0
54	A7	13.5	10	10	8.5	9.5
54	A8	13.5	10	10	9.0	9.0
54	A9	11.5	10	10	9.0	9.5
54	A10	12.0	10	10	8.0	9.0
54	A11	11.5	10	10	9.5	8.5
54	A12	12.0	10	10	9.5	10.5
54	A13	13.0	10	10	11.0	12.0
54	A14	12.0	10	10	11.0	11.0
54	A15	14.0	10	10	12.0	11.0
54	A16	13.0	10	10	13.0	13.0
54	A17	13.0	10	10	11.5	9.5
54	B18	14.0	10	10	10.5	9.5
54	B19	14.5	10	10	10.5	12.5
54	B20	13.0	10	10	11.0	12.0

Metal 1 and Wood 1 are Western Stakes
Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner
Stake depth exceeds liner depth

Geomembrane Stake Investigation

503 Elk Street Buffalo, NY

LaBella Representative : C. Finn **Date:** December 27, 2023

Row	Ballast No.	Liner Depth	Metal 1	Metal 2	Wood 1	Wood 2
55	B1	11.0	10	10	13.0	8.0
55	B2	11.5	10	10	10.0	12.0
55	A3	11.5	10	10	11.0	9.0
55	A4	14.0	10	10	9.0	8.5
55	A5	13.0	10	10	10.5	9.0
55	A6	12.0	10	10	9.0	9.0
55	A7	9.5	10	10	9.5	9.0
55	A8	8.0	10	10	10.0	9.5
55	A9	9.0	10	10	9.0	9.0
55	A10	8.5	10	10	9.0	8.5
55	A11	10.0	10	10	9.5	8.5
55	A12	10.0	10	10	8.5	10.0
55	A13	11.0	10	10	9.5	9.5
55	A14	13.0	10	10	9.5	9.5
55	A15	12.5	10	10	9.5	11.5
55	A16	13.0	10	10	11.0	11.0
55	B17	11.0	10	10	11.0	9.5
55	B18	12.5	10	10	10.5	10.5

Metal 1 and Wood 1 are Western Stakes

Metal 2 and Wood 2 are Eastern Stakes

Stake depth within 1" of liner

Stake depth exceeds liner depth

Attachment 1

Photo Log



Photo 1 : Additional damage to geomembrane



Photo 2 : Additional geomembrane damage

,



Photo 3 : Completed gravel removal



Photo 4 : Completed gravel removal

,

LaBella
Powered by partnership.



Photo 5 : Completed gravel removal



Photo 6 : Completed gravel removal

,

LaBella
Powered by partnership.



Photo 7 : Completed gravel removal with additional damage



Photo 8 : Lath stuck in hole

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LaBella
Powered by partnership.



Photo 9 : Peal and Shear testing



Photo 10 : Representative bead repairs

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LaBella
Powered by partnership.



Photo 11 : Representative patch repairs



Photo 12 : Representative repair work

,

LaBella
Powered by partnership.



Photo 13 : Representative repair work



Photo 14 : Representative repair work

,

LaBella
Powered by partnership.

Attachment 2

Chenango Repair
Procedures

CHENANGO CONTRACTING, INC

29 Arbutus Rd.
Johnson City, NY 13790
T: (607) 729-8500
F: (607) 729-2415
www.chenangocontracting.com

January 15, 2024

Ms. Megan Drean
Inovateus Solar
19890 State Line Rd.
South Bend IN 46637

Subject: Elk St Geomembrane Repairs
Geomembrane Repair Procedure Submittal

Dear Ms. Drean:

Megan,

Our procedure for the repairs will generally be as follows:

- Technician will perform a startup trial weld using the same type material and welding rod as the existing liner.
- The sample will then be cut into 1” wide samples and get tested for peel & shear strength using a field tensiometer.
- After verifying the trial seam meets the strength requirements for the material, the technicians will ensure geomembrane surfaces are clean and dry.
- Technicians will cut a patch from similar LLDPE material and heat weld it to the existing geomembrane, ensuring that it extends at least 6 inches beyond the edge of the defect.
- Once patch is tacked down, the liner surface around the patch will be lightly abraded using a grinder.
- After the area to be welded has been prepped, the technician will use the extruder to permanently weld the patch to the existing geomembrane.
- After the weld has been performed and cooled, the technician will non-destructively test the patch using a vacuum box to verify there are no leaks.
- Finally, the technician will label and document the patch in a repair log.

If you have any questions please do not hesitate to contact me.

Sincerely,
CHENANGO CONTRACTING, INC.



Nicholas S. Brechko

Attachment 3

Trial Seam Log

CHENANGO CONTRACTING, INC.

29 ARBUTUS RD, JOHNSON CITY, NY 13790
TEL. (607) 729-8500 FAX (607) 729-2415

GEOMEMBRANE TRIAL SEAM LOG

PROJECT NAME: Elk Street Solar Liner Repair
PROJECT NUMBER: 2211232
QC REP.:

	SMOOTH (ppi)		TEXTURED (ppi)	
	PEEL	SHEAR	PEEL	SHEAR
FUSION (min.)				
EXTRUSION (min.)			78	120

						Fusion		Extrusion		* All Peel & Shear Values are (ppi)								
Date	Time	Temp (deg F)	Mach. No.	Tech ID	Setup S/T	Temp (deg C)	Speed (ft/m)	Preheat (deg F)	Barrel (deg F)	Peel #1 In	Peel #1 Out	Peel #2 In	Peel #2 Out	Peel #3 In	Peel #3 Out	Shear #1	Shear #2	Shear #3
1-30-24	9:00	36	X007	VC	T/T	—	—	550	550	90		94		102		145	150	143

Attachment 4

Repair Log

CHENANGO CONTRACTING, INC.

29 ARBUTUS RD, JOHNSON CITY, NY 13790
TEL. (607) 729-8500 FAX (607) 729-2415

REPAIR LOG

PROJECT NAME: Elk Street Solar Liner Repair
PROJECT NUMBER: 7211232
QC REP.:
MATERIAL:

REPAIR #	DEFECT CODE*	REPAIR DATE	TECH ID	LOCATION			REPAIR TYPE*	SIZE (inches) (~~ft x ft~~)	VACUUM TEST	
				Seam/Panel	Offset #1	Offset #2			P/F	DATE
R1		1/30		49 B6			R	1x3	P	1/30
R2		1/30		49 B8			R	1x3	P	1/30
R3		1/30		49 B5			R	1x3	P	1/30
R4		1/30		51 A4			R	1x4	P	1/30
R5		1/30		51 A4			R	1x4	P	1/30
R6		1/30		51 A4			R	1x3	P	1/30
R7		1/30		51 A4			R	1x4	P	1/30
R8		1/30		51 A4			R	2x2	P	1/30
R9		1/30		51 A4			R	1x3	P	1/30
R10		1/30		51 A4			R	2x6	P	1/30
R11		1/30		51 A4			R	1x3	P	1/30
R12		1/30		51 A4			R	1x3	P	1/30
R13		1/30		51 A4			R	1x3	P	1/30
R14		1/30		51 A4			R	1x3	P	1/30
R15		1/30		51 A4			R	1x3	P	1/30
R16		1/30		51 A4			R	1x3	P	1/30
R17		1/30		51 A4			R	1x3	P	1/30
P1		1/30		51 A4			P	8x8	P	1/30
R18		1/30		51 A5			R	1x5	P	1/30
R19		1/30		51 A12			R	1x4	P	1/30
R20		1/30		50 A14			R	1x4	P	1/30
R21		1/30		51 A13			R	1x5	P	1/30
R22		1/30		55 B17			R	1x5	P	1/30
R23		1/30		55 B17			R	1x3	P	1/30
R24		1/30		55 B17			R	1x3	P	1/30
R25		1/30		55 B17			R	1x3	P	1/30
R26		1/30		55 A12			R	3x3	P	1/30
R27		1/30		55 A12			R	1x3	P	1/30
R28		1/30		55 A12			R	1x3	P	1/30
R29		1/30		55 A11			R	1x6	P	1/30
R30		1/30		55 A11			R	1x3	P	1/30
R31		1/30		55 A11			R	1x3	P	1/30
R32		1/30		55 A10			R	2x5	P	1/30
R33		1/30		55 A10			R	1x4	P	1/30
R34		1/30		55 A10			R	1x3	P	1/30
R35		1/30		55 A10			R	1x3	P	1/30
R36		1/30		55 A10			R	1x3	P	1/30
R37		1/30		55 A9			R	2x6	P	1/30
R38		1/30		55 A9			R	2x6	P	1/30
P2		1/30		55 A8			P	8x8	P	1/30
P3		1/30		55 A8			P	7x7	P	1/30

* See Abbreviation Sheet

R = Bead
P = Patch

CHENANGO CONTRACTING, INC.

29 ARBUTUS RD, JOHNSON CITY, NY 13790
TEL. (607) 729-8500 FAX (607) 729-2415

REPAIR LOG

PROJECT NAME: Elk Street Solar Liner Repair
PROJECT NUMBER: 2211232
QC REP.:
MATERIAL:

REPAIR #	DEFECT CODE*	REPAIR DATE	TECH ID	LOCATION			REPAIR TYPE*	SIZE (inches) ~~(ft x ft)~~	VACUUM TEST	
				Seam/Panel	Offset #1	Offset #2			P/F	DATE
R39		1/30		55 A7			R	1x5	P	1/30
R40		1/30		55 A7			R	2x6	P	1/30
R41		1/30		55 A3			R	1x4	P	1/30
R42		1/30		55 A2			R	2x4	P	1/30
R43		1/30		55 A2			R	1x5	P	1/30
R44		1/30		55 A2			R	1x4	P	1/30
R45		1/30		55 A2			R	1x11	P	1/30
R46		1/30		55 A2			R	1x4	P	1/30
R47		1/30		55 A2			R	1x3	P	1/30
R48		1/30		55 A2			R	1x5	P	1/30
R49		1/30		55 A2			R	1x4	P	1/30
R50		1/30		55 A2			R	1x5	P	1/30
R51		1/30		55 A2			R	1x3	P	1/30
R52		1/30		55 A2			R	1x5	P	1/30

R = Bead
P = Patch

* See Abbreviation Sheet

Inovateus Solar
19890 State Line Road
South Bend, Indiana 46637
P: +15744851400

Project: ESS - 11122 Elk Street Solar
503 Elk Street
Buffalo , New York 14210

Observation Non-Conformance #4: Elk Street Solar Liner Inspection

Origin	Inspection - Brownfield Routine Inspection #2> Section #1: Untitled Section> Item #4: No visible evidence of cap penetration (i.e. no steel pins, grade stakes or other marking devices installed in the cap area).	**Status**	Initiated
Created By	Joaquin Corona (Inovateus Solar LLC)	**Date Created**	Dec 29, 2023
Assignee	Mark Andrews (GPI / Greenman- Pedersen, Inc.)	**Distribution**	Sierra Haney (CleanCapital) Alyssa Hartigan (CleanCapital) Mike Haga (Inovateus Solar LLC) Aaron Leyva (Inovateus Solar LLC) Andrew Proctor (Inovateus Solar LLC) George Boyd (Inovateus Solar LLC) Todd P. Collins Sr. (Inovateus Solar LLC) Emily Molnar (Inovateus Solar LLC) Joaquin Corona (Inovateus Solar LLC) Mark Andrews (GPI / Greenman- Pedersen, Inc.) Megan Drean (Inovateus Solar LLC) William Leffew (Inovateus Solar LLC)
Notification Date	Jan 26, 2024	**Priority**	
Location	Sitewide	**Trade**	Survey
Due Date	Feb 2, 2024	**Private**	Yes
Contributing Condition	Ground Conditions	**Contributing Behavior**	
Hazard	Exposure		
Spec Section			
Description	Geomembrane Study Per Construction Document “C - 5.3 Misc Civil Details, A Concrete Pad Detail” shows and calls out for 12 inch thick washed stone cap layer on top of existing GSL liner. Upon completing our (Inovateus Solar) inspection of the existing GSL liner. A LaBella Associates representative with the assistance from GPI (surveyor-subcontracted through Inovateus Solar) discovered 33 areas of concern, damaged or punctured by the metal pins (10”). Please reference “Exhibit A - Inovateus Solar Stake Check Spreadsheet” for all pass and fails. Locations are as followed in photos. LaBellas full report and Exhibit A to be used as reference for exact location and stake check sheet. Frequency : Pre-construction survey required, followed by inspections at intervals defined by customer. Repair : Repairs have been made to liner on all damaged locations.		
Part/Item	Pile	**Resolution**	Repair
Units Affected	33.0	**Non-Conformance Type**	Damaged (Installation)
Linked Drawings			

Attachments 2211232 Supplemental Elk Street Stake Investigation Report FINAL.pdf, Elk St Cap Liner Repairs 1_30_2024.pdf, 2211232 Elk Street Solar Stake Investigation Letter Report (3).pdf



20240130_112228.jpg



20240130_112243.jpg



20240130_112310.jpg



20240130_112351.jpg



20240130_112356.jpg



20240130_112417.jpg





20240130_112428.jpg



20240130_112434.jpg



20240130_121553.jpg



20240130_121604.jpg



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Activity (5)

Megan Drean
02/02/2024 at 11:47 AM EST

Comment: Brownfield cap liner repairs completed by Chenango Contracting on 1/30/204. Labeled photos of each repair in PDF titled "Elk St Cap Liner Repairs 1_30_2024"

Todd P. Collins Sr.
01/12/2024 at 09:44 AM EST

Comment: Labella Report attached.

Attachments:



2211232 Elk Street Solar Stake Investigation Letter Report.pdf

Megan Drean
01/03/2024 at 10:37 AM EST

Status Changed: Initiated

Megan Drean
01/03/2024 at 10:34 AM EST

Status Changed: Closed

Todd P. Collins Sr.
12/29/2023 at 11:19 AM EST

Comment: Labella will have the full report of inspection along with spreadsheet by end of bossiness 01/02/2024. Inovateus in conversation with Solmax to start repairs, potential start date week of 01/02/2024, will update when finalized. Inovateus also in process of starting construction in areas not affected by failures of liner inspection as they were isolated to a small area.

APPENDIX 2

Change of Use Letter and
Approval Letters

January 31, 2022 (Revised February 2024)

Ms. Megan Kuczka
Environmental Program Specialist, Region 9
New York State Department of Environmental Conservation
700 Delaware Avenue
Buffalo, New York 14209

RE: ExxonMobil Former Buffalo Terminal Operable Units 2 East and 3 – Clean Capital (formerly BQ Energy Development, LLC) Change of Use Letter Work Plan: 503, 623, 625, 635 Elk Street, Buffalo, NY (NYSDEC Sites #C915201D and #C915201B) LaBella Project # 2211232

Dear Ms. Kuczka:

On behalf of Clean Capital (formerly BQ Energy Development, LLC), LaBella Associates, DPC has prepared this Change of Use Letter Work Plan for the construction of a solar energy generating facility on portions of Operable Unit No. 3 (OU-3) and Operable Unit No. 2 East (OU-2E) of the ExxonMobil Former Buffalo Terminal site (NYSDEC Sites #C915201D and #C915201B). Elk Street Solar will be the site name and Inovateus will be the solar installation contractor. Please see Figure 1 for the location of the respective Operable Units. This work plan was requested by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated March 3, 2021 subsequent to the submittal of a Change of Use Form in January 2021 for development of the solar facility. Furthermore, this work plan is intended to comply with the requirements of the Excavation Work Plans (EWPs) contained in the respective Site Management Plans (SMPs) for OU-3 and OU-2 East. As indicated on the attached Elk Street Solar Development Project Design Drawings, the solar facility will be constructed on the western portion of OU-3, above the Geo-Synthetic Liner (GSL) and stone cover system. The connection to the power grid will occur in the south-central portion of OU-2 East, in the vicinity of the existing Buckeye Terminal Powerhouse Building, also depicted on the attached design drawings.

Project Description

Clean Capital plans to construct a Photovoltaic (PV) solar facility that will generate 2.3 megawatts of alternating current (MWac) on approximately 10 acres encompassing portions of OU-3 and OU-2E. The limits of the PV facility are shown on the attached design drawings. The fixed-tilt solar PV System utilizing Remote Net Metering (RNM) will be installed and maintained by Clean Capital. Ongoing compliance with the Site Management Plans (SMPs) for OU-3 and OU-2 East will continue to be the responsibility of the owner, Elk Street Commerce Park, LLC (ESCP).

Photovoltaic System

The PV System will consist of approximately 8,710 430-watt solar modules affixed to panels supported by a non-penetrating surface-mounted ballast racking system (see attached Design Drawings). Electrical service to the PV System will be provided via interconnection to the existing electrical infrastructure on OU-2 East. The existing asphalt access road servicing the Groundwater Extraction Treatment System (GWETS) will support construction and fire access to the PV System equipment pad to be located proximate the GWETS parking lot. Existing perimeter fencing will be supplemented where necessary with additional ballasted fencing and gates to be constructed to fully enclose the PV System for safety.

The PV array consists of approximately 28 east-west rows on the central portion of OU-3, spaced approximately 11' from front-to-back edge of rows, installed on a surface-mounted ballast racking system. The array was configured to avoid impeding access to, or operation of, the existing GWETS and associated access road and parking lot. Additionally, care was taken to provide a 10' minimum buffer around the existing monitoring wells, extraction wells, and conveyance piping. The minimum 10' working area will provide sufficient space for equipment and personnel to facilitate the construction and maintenance of the solar arrays while preventing damage to these components of the active groundwater remediation system. This setback will provide sufficient space for the continued operation and maintenance of the extraction wells and piping. The modules and electrical equipment will also be setback 5' and 10', respectively, from existing gas vents present on OU-3.

Electrical equipment associated with the PV System (i.e., switchboard, transformers, etc.) will be placed on a concrete equipment pad to be constructed above the existing OU-3 cover system to the east of the GWETS parking lot.

Within the limits of OU-3, wiring within the array will be mounted from rack-to-rack and in between rows via covered cable trays mounted above the ground surface on ballasted concrete piers, or on a cable hanger system mounted above the ground surface on ballasted poles as shown on the design drawings. Beyond the limits of OU-3, wiring will extend northward in underground conduit to a series of seven utility poles to be installed to facilitate the interconnection with the existing National Grid system.

Planned Construction Activities

Operable Unit 3 - #C915201D

For the construction of the solar panel array, fencing, asphalt turnaround, and ancillary equipment placement, the construction will take place entirely above the GSL and overlying 12-inch stone cover that comprise the cover system in this area. This will be conducted with various ballasting techniques as depicted on the design drawings. Import Requests will be generated and submitted to NYSDEC for the ballast and leveling material.

No construction activities will penetrate the cover system exposing or disturbing remaining contamination within OU-3. Traversing, transporting, and solar equipment installation will be

conducted with Low Ground Pressure (LGP) equipment as to protect the GSL. If needed, Bank Run #67 clean stone will be used to fulfill the stone cover system replacement. Further, it should be noted that the solar array construction will not interfere with the existing groundwater extraction and treatment system operation.

Operable Unit 2 East - #C915201B

Similar to the equipment installation techniques utilized for OU-3, the gates, fencing, conduit runs, and ancillary equipment will be situated with ballasting techniques to avoid penetrating the stone cover system and disturbing the remaining contamination in the underlying soils of OU-2 East to the extent practical.

Intrusive activities into the stabilized, mixed soils of OU-2 East will be limited to the installation of the utility poles, associated guy wires, and trenching for electrical conduit. The existing one foot of stone cover and the demarcation layer will be segregated prior to intrusive activities. The holes/trenching will be advanced to required depth (<6' below grade). The excavated spoils will be placed on poly sheeting. The installation of the necessary equipment will be conducted. The excavated spoils will then be used as backfill material and compacted. This material will be mounded to make every effort to shed water. The remaining soil will be disposed of properly. The demarcation layer and clean stone will then be replaced. Should clean backfill material be required, an Import Request form will be initiated and submitted to NYSDEC for approval.

Construction Schedule

The construction of the solar facility is anticipated to begin in the Fall of 2023 (schedule attached). It is estimated that this construction will take approximately six months. NYSDEC will be updated appropriately of the schedule when the time nears.

As requested, City of Buffalo approvals from the Planning Department and the Building Department will be provided once they are obtained.

Anticipated Environmental Conditions

In-situ stabilized petroleum impacted media is expected to be encountered at the intrusive work locations west of the Powerhouse within OU-2 East. This soil was stabilized as part of the final remedial construction effort conducted in 2018-2019. Groundwater is not expected to be encountered in this area of the Site at the depths the intrusive activities are expected (<6' below grade).

Compliance with Excavation Work Plan

The work will be completed in accordance with the EWPs and with applicable provisions of 29 CFR Part 1910.120. Components of the EWP that apply to this construction program include:

- Notification
- Soil Screening

- Material Staging, Transport & Disposal
- Cover System Restoration
- Community Air Monitoring Plan
- Dust Control

Pursuant to the EWP, the intrusive activities to be performed on OU-2 East will be monitored for particulates and Volatile Organic Compounds (VOCs) as prescribed in the Community Air Monitoring Plan (CAMP) for the Site. This data will be provided to NYSDEC and NYSDOH daily for the extent of intrusive activities. Additionally, sediment and erosion control practices will be in place as prescribed on the design drawings for all excavations.

Compliance with Site Management Plan

For continued monitoring compliance with the SMP, wells MW-OU2-1 and MW-OU2-2 will be re-surveyed for elevation when their well heads are converted from stickup casings to flush-mount casings.

Health & Safety Plan

A copy of the Contractor's updated Health & Safety Plan is included as an attachment of this document.

Identification of Waste Disposal Facilities

Should it become necessary to dispose of waste materials, the material will be sampled and characterized. These materials will be containerized and disposed of at Allied Waste in Niagara Falls, New York or the Waste Management facility in Chaffee, New York.

Construction Completion Report and SMP Update

It is anticipated that the Construction Completion Report (CCR) and applicable updates to the SMP for the solar facility will be submitted within 90 days following completion of construction.

Respectfully submitted,

LaBella Associates



Andrew Janik, PG

Project Manager

cc: Eugene Melnyk, PE (NYSDEC)



Creator: JR

Path: I:\Elk Street Commerce Park\2200012 - OM&M Elk St Commerce\GIS\MXD\PFAS\2021_12\Fig1 BQ Energy.mxd

LaBella
Powered by partnership.

N

0 200 400 Feet

Legend

- Monitoring Well
- Operational Unit 2 (OU-2) East Boundary
- Operational Unit 3 (OU-3) Boundary
- Proposed Solar Array Location

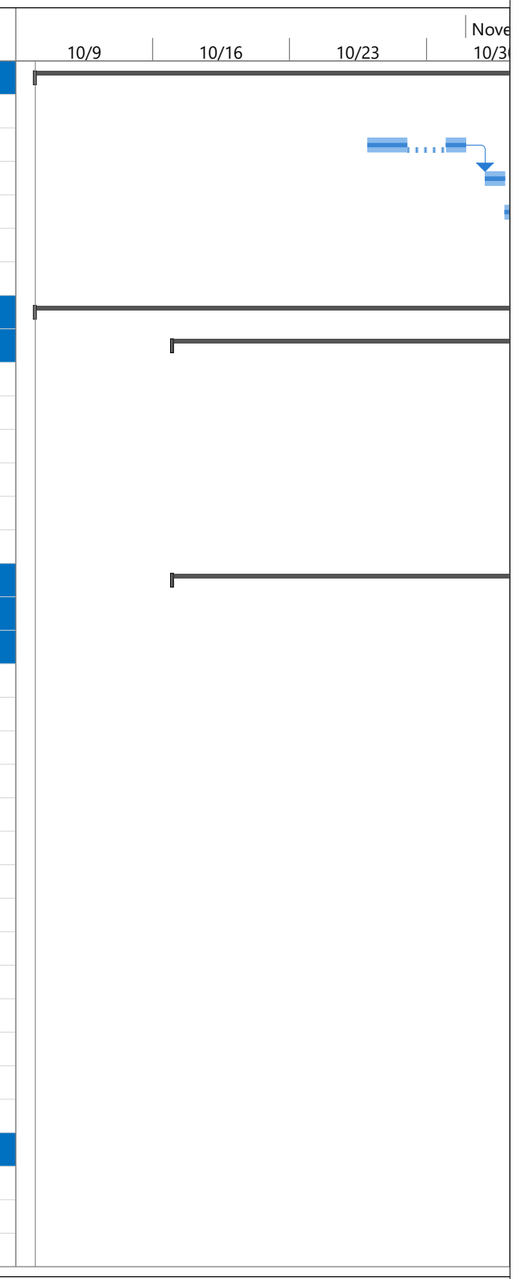
Sources: Bing 2020; Erie County 2020; LaBella 2021.

BQ Energy
Elk Street Solar Development Project

Figure 1

Elk Street Solar
Construction Schedule - Update 3/11/24

ID	Task Name	Duration	Start	Finish	Total Slack	Baseline Start	Baseline Finish	Predecessors	Successors	% Complete
1	**Pre-Design Development**	**431 days**	**Mon 10/10/22**	**Thu 2/29/24**	**106 days**	**Thu 10/27/22**	**Mon 7/10/23**			**91%**
2	Underground Utility Survey	10 days	Thu 1/5/23	Wed 1/18/23	0 days	Thu 1/5/23	Wed 1/18/23	9		100%
3	Suneye Shading Analysis	3 days	Thu 10/27/22	Mon 10/31/22	0 days	Thu 10/27/22	Mon 10/31/22	11SS	4	100%
4	Glare Analysis	1 day	Wed 11/2/22	Wed 11/2/22	0 days	Wed 11/2/22	Wed 11/2/22	3		100%
5	FAA Filing	1 day	Thu 11/3/22	Thu 11/3/22	0 days	Thu 11/3/22	Thu 11/3/22	9		100%
6	Permitting	15 days	Thu 9/14/23	Wed 10/4/23	0 days	Fri 3/3/23	Mon 7/10/23	13	79	100%
7	ALTA Survey	82 days	Mon 11/13/23	Thu 2/29/24	106 days	NA	NA	32	74	75%
8	**Pre-Engineering**	**97 days**	**Mon 10/10/22**	**Mon 1/30/23**	**0 days**	**Mon 10/10/22**	**Mon 1/30/23**			**100%**
12	**Contract Milestones**	**531 days**	**Mon 10/17/22**	**Tue 7/2/24**	**0 days**	**Fri 3/3/23**	**Fri 5/17/24**			**99%**
13	Contract Signing	0 days	Fri 3/3/23	Fri 3/3/23	0 days	Fri 3/3/23	Fri 3/3/23		14FS+6 days,6	100%
14	Final Notice To Proceed	0 days	Sat 3/11/23	Sat 3/11/23	0 days	Fri 3/10/23	Fri 3/10/23	13FS+6 days		100%
15	Mechanical Completion (MS Payment)	0 days	Mon 4/22/24	Mon 4/22/24	37 days	Tue 3/5/24	Tue 3/12/24	110FF	16,130	0%
16	Placed In Service	0 days	Wed 5/15/24	Wed 5/15/24	41 days	Fri 3/29/24	Tue 3/5/24	15,125	17	0%
17	Substantial Completion (MS Payment)	0 days	Tue 6/4/24	Tue 6/4/24	24 days	Fri 4/19/24	Fri 4/26/24	130,16	18	0%
18	Final Completion (MS Payment)	0 days	Tue 7/2/24	Tue 7/2/24	0 days	Fri 5/17/24	Fri 5/24/24	17,137		0%
19	**RFQs for Major Equipment**	**227 days**	**Mon 10/17/22**	**Fri 7/7/23**	**0 days**	**Mon 10/17/22**	**Thu 2/23/23**			**100%**
25	**Engineering Design**	**211 days**	**Mon 3/20/23**	**Mon 11/20/23**	**0 days**	**Fri 3/3/23**	**Tue 9/12/23**			**100%**
35	**Material Procurement**	**279 days**	**Thu 5/4/23**	**Fri 3/29/24**	**75 days**	**Thu 5/4/23**	**Tue 3/5/24**			**99%**
36	Release Pos (Long Lead Equipment)	2 days	Thu 5/4/23	Fri 5/5/23	0 days	Thu 5/4/23	Fri 5/5/23	26FS+32 days	41,47,48,49,3	100%
37	Release Pos (Remaining Equipment)	10 days	Mon 9/25/23	Thu 10/5/23	0 days	Fri 7/7/23	Tue 7/11/23	29	44,42,43,45FS	100%
38	Ballasts	8 wks	Mon 8/7/23	Fri 9/29/23	0 wks	Mon 5/8/23	Mon 7/3/23	30,36	51	100%
39	Posts	37 days	Thu 10/5/23	Mon 11/27/23	0 days	Mon 5/8/23	Mon 8/28/23	22,36	52	100%
40	Racking	37 days	Thu 10/5/23	Mon 11/27/23	0 days	Mon 5/8/23	Mon 7/3/23	22,36	53	100%
41	Combiner Boxes	92 days	Wed 5/24/23	Thu 9/28/23	0 days	Mon 5/8/23	Mon 7/17/23	27,36	54	100%
42	CAB	40 days	Tue 10/3/23	Mon 11/27/23	0 days	Wed 7/12/23	Wed 9/6/23	30FS+41 days,37	56	100%
43	Inverters	66 days	Fri 6/23/23	Fri 9/22/23	0 days	Wed 7/12/23	Tue 8/22/23	27FS+22 days,21	57	100%
44	GOAB/Reclosers/Relays	9 wks	Wed 7/12/23	Fri 10/6/23	0 wks	Wed 7/12/23	Wed 10/4/23	37,24	58,60	100%
45	Surge Arresters	41 days	Mon 12/11/23	Tue 1/30/24	0 days	Wed 7/12/23	Wed 10/4/23	37FS+30 days	59FS+40 days	100%
46	Monitoring	76 days	Thu 10/5/23	Mon 1/15/24	0 days	Wed 7/12/23	Tue 8/8/23	32FS+8 days,37	61	100%
47	Switchboard	163 days	Wed 5/24/23	Fri 1/12/24	0 days	Mon 5/8/23	Tue 3/5/24	27,36,23	62FS+55 days	100%
48	Transformer	130 days	Wed 5/24/23	Tue 11/21/23	0 days	Mon 5/8/23	Tue 2/6/24	27,36,20	63FS+65 days	100%
49	Grounding Transformer	118 days	Fri 7/7/23	Thu 12/21/23	0 days	Mon 5/8/23	Mon 8/28/23	27,36	64	100%
50	**Material Deliveries**	**175.5 days**	**Fri 9/1/23**	**Fri 3/29/24**	**75 days**	**Tue 7/4/23**	**Thu 2/15/24**			**91%**
51	Ballasts	23 days	Wed 10/4/23	Fri 11/3/23	0 days	Tue 7/4/23	Mon 8/7/23	38	85SS-5 days	100%
52	Posts	29 days	Tue 11/28/23	Thu 1/4/24	0 days	Tue 8/29/23	Tue 10/3/23	39	86SS	100%
53	Racking (MS Payment)	6 wks	Tue 11/28/23	Fri 1/5/24	0 wks	Tue 8/29/23	Tue 10/3/23	40	87SS	100%

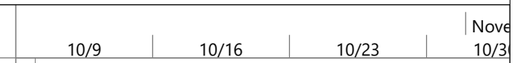


Project: Elk Street Construction
Date: Tue 3/19/24

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress

Elk Street Solar
Construction Schedule - Update 3/11/24

ID	Task Name	Duration	Start	Finish	Total Slack	Baseline Start	Baseline Finish	Predecessors	Successors	% Complete
54	Combiner Boxes	1 day	Fri 9/29/23	Fri 9/29/23	0 days	Tue 7/18/23	Wed 10/18/23	41	93	100%
55	Modules (Owner Furnished)	10 days	Mon 9/25/23	Thu 10/5/23	0 days	Wed 9/27/23	Tue 11/7/23		88SS	100%
56	CAB	1 day	Mon 11/27/23	Mon 11/27/23	0 days	Thu 9/7/23	Thu 9/7/23	42	92	100%
57	Inverters (MS Payment)	1 day	Mon 9/25/23	Mon 9/25/23	0 days	Wed 8/23/23	Wed 8/23/23	43	95	100%
58	GOAB	1 day	Fri 9/1/23	Mon 9/4/23	0 days	Thu 10/5/23	Thu 10/5/23	44,37	60FS+5 days,5	100%
59	Surge Arresters	1 day	Mon 3/18/24	Mon 3/18/24	0 days	Thu 10/5/23	Thu 10/5/23	45FS+40 days,58		100%
60	Recloser/Relays	5 days	Thu 2/8/24	Tue 2/13/24	0 days	Thu 2/15/24	Thu 2/15/24	44,58FS+5 days		100%
61	Monitoring	0 wks	Wed 1/10/24	Wed 1/10/24	0 wks	Wed 8/9/23	Tue 8/15/23	46		100%
62	Switchboard	5 days	Mon 3/25/24	Fri 3/29/24	75 days	Tue 2/27/24	Tue 2/13/24	47FS+55 days	96,63SS	0%
63	Transformer	5 days	Mon 3/25/24	Fri 3/29/24	75 days	Wed 2/7/24	Tue 2/13/24	48FS+65 days,62	97	0%
64	Grounding Transformer	5 days	Sat 12/23/23	Fri 12/29/23	0 days	Tue 8/29/23	Tue 9/5/23	49		100%
65	**Construction**	**311 days**	**Fri 6/30/23**	**Tue 7/2/24**	**0 days**	**Fri 6/30/23**	**Tue 9/26/23**			**25%**
66	**Site Mobilization**	**108 days**	**Fri 6/30/23**	**Thu 11/2/23**	**0 days**	**Fri 6/30/23**	**Wed 7/19/23**			**100%**
73	**Pre-Construction Activities**	**73 days**	**Thu 10/19/23**	**Wed 1/17/24**	**0 days**	**Mon 8/7/23**	**Thu 8/17/23**			**100%**
77	**Mechanical Completion**	**74 days**	**Wed 1/31/24**	**Thu 4/25/24**	**58 days**	**Mon 8/14/23**	**Tue 3/12/24**			**34%**
78	**Civil Installation (MS Payment)**	**69 days**	**Tue 2/6/24**	**Thu 4/25/24**	**58 days**	**Mon 8/14/23**	**Tue 9/26/23**			**0%**
79	Install SWPPP/SESC Measures	0 days	Tue 2/6/24	Tue 2/6/24	0 days	Wed 9/13/23	Tue 9/19/23	6,33,76,74SS+31	81FS+3 days,8	100%
80	Install Site Road Access/Drive/Culvert	15 days	Fri 3/15/24	Mon 4/1/24	79 days	Mon 8/14/23	Fri 8/18/23	79SS+2 days		0%
81	Install Fence	6 wks	Fri 3/22/24	Thu 4/25/24	11.6 wks	Wed 9/13/23	Tue 9/19/23	79FS+3 days		0%
82	Install Equipment Pads	5 days	Mon 3/25/24	Fri 3/29/24	11 days	Wed 9/13/23	Tue 9/26/23		83	0%
83	Concrete Cure	7 days	Sat 3/30/24	Sat 4/6/24	11 days	Fri 10/27/23	Tue 10/17/23	82	97,96,95	0%
84	**Mechanical Assembly**	**49 days**	**Wed 1/31/24**	**Wed 3/27/24**	**18 days**	**Wed 9/13/23**	**Tue 11/14/23**			**90%**
85	Install Ballasts (MS Payment)	32 days	Wed 1/31/24	Thu 3/7/24	0 days	Wed 9/20/23	Tue 10/17/23	51SS-5 days,74S	86FS-12 days	100%
86	Install Posts	26 days	Mon 2/12/24	Tue 3/12/24	0 days	Wed 9/27/23	Tue 10/31/23	85FS-12 days,52	87SS	100%
87	Install Racking (MS Payment)	26 days	Mon 2/12/24	Tue 3/12/24	0 days	Wed 10/4/23	Tue 11/7/23	86SS,53SS	88FF+4 days,1	100%
88	Install Modules (MS Payment)	15 days	Mon 3/11/24	Wed 3/27/24	18 days	Wed 10/11/23	Tue 11/14/23	87FF+4 days,55S	92FF+6 days,9	31%
89	**Electrical Assembly**	**36 days**	**Thu 3/14/24**	**Wed 4/24/24**	**59 days**	**Wed 9/27/23**	**Tue 3/5/24**			**3%**
90	Install PV String Wiring Runs	10 days	Thu 3/21/24	Mon 4/1/24	24 days	Tue 11/7/23	Mon 11/20/23	88FF+4 days	108,91FF+2 da	20%
91	PV String Wire Termination	8 days	Tue 3/26/24	Wed 4/3/24	48 days	Thu 11/9/23	Fri 12/8/23	90FF+2 days	117	0%
92	CAB Installation	12 days	Thu 3/21/24	Wed 4/3/24	18 days	Tue 10/31/23	Thu 11/30/23	88FF+6 days,56	102FF+5 days,	0%
93	Install DC Combiner Boxes	5 days	Thu 3/14/24	Fri 3/29/24	51 days	Fri 10/27/23	Thu 11/9/23	88FF+2 days,54	102FF+5 days	33%
94	Install DC System Cabling (Home runs) & Terminations	15 days	Fri 3/22/24	Mon 4/8/24	18 days	Thu 11/2/23	Fri 12/1/23	92SS+1 day	108	0%
95	Install/Terminate String Inverters (MS Payment)	12 days	Mon 4/8/24	Sat 4/20/24	11 days	Tue 10/31/23	Mon 11/20/23	57,83	104FF+1 day,1	0%
96	Install Switchboard Skid	5 days	Mon 4/8/24	Fri 4/12/24	68 days	Wed 2/14/24	Tue 2/27/24	62,83	101,103	0%
97	Install Transformer	1 day	Mon 4/8/24	Mon 4/8/24	68 days	Wed 2/14/24	Thu 2/22/24	63,83	105FF,116	0%



Project: Elk Street Construction
Date: Tue 3/19/24

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress

Elk Street Solar
Construction Schedule - Update 3/11/24

ID	Task Name	Duration	Start	Finish	Total Slack	Baseline Start	Baseline Finish	Predecessors	Successors	% Complete
98	Install Poles	5 days	Mon 4/1/24	Fri 4/5/24	75 days	Tue 10/10/23	Mon 10/23/23	75FS+85 days,34	99SS,100SS	0%
99	Install AC Overhead Line Cables	5 days	Mon 4/1/24	Fri 4/5/24	75 days	Tue 10/24/23	Mon 10/30/23	98SS		0%
100	Install GOAB/Recloser/Relay	5 days	Mon 4/1/24	Fri 4/5/24	75 days	Tue 2/20/24	Mon 2/26/24	98SS		0%
101	Install Mini Power Zones	1 day	Sat 4/13/24	Sat 4/13/24	68 days	Wed 2/28/24	Tue 3/5/24	96		0%
102	Install System Grounding	7 days	Tue 4/2/24	Tue 4/9/24	47 days	Tue 11/21/23	Mon 12/4/23	92FF+5 days,87F	109FF+1 day	0%
103	Install Grounding Transformer	1 day	Sat 4/13/24	Sat 4/13/24	68 days	Wed 9/27/23	Tue 10/3/23	96		0%
104	Install DAS (Monitoring)	5 days	Wed 4/17/24	Mon 4/22/24	11 days	Tue 11/21/23	Wed 11/29/23	95FF+1 day	106,110	0%
105	Install AC System Cabling & Terminations	12 days	Tue 3/26/24	Mon 4/8/24	73 days	Tue 11/21/23	Wed 12/6/23	97FF		0%
106	Install System Signage	2 days	Tue 4/23/24	Wed 4/24/24	59 days	Wed 10/4/23	Wed 10/4/23	104		0%
107	**Testing**	**13 days**	**Mon 4/8/24**	**Mon 4/22/24**	**19 days**	**Wed 9/27/23**	**Tue 12/26/23**			**0%**
108	Megger Testing	5 days	Tue 4/9/24	Sat 4/13/24	18 days	Mon 12/11/23	Fri 1/26/24	90,94	110	0%
109	Rack, Module and Equipment Grounding Inspection	3 days	Mon 4/8/24	Wed 4/10/24	47 days	Wed 3/6/24	Thu 2/8/24	88,87,102FF+1 day	130	0%
110	Mechanical completion Achieved	0 days	Mon 4/22/24	Mon 4/22/24	11 days	Tue 3/5/24	Tue 3/5/24	108,95,104	15FF,132,115	0%
111	**Substantial Completion**	**256 days**	**Sat 8/5/23**	**Tue 6/4/24**	**24 days**	**Tue 2/27/24**	**Fri 4/26/24**			**10%**
112	Phase B Approval	209 days	Sat 8/5/23	Wed 4/10/24	0 days	NA	NA	30	113	14%
113	National Grid Construction	40 days	Thu 4/11/24	Mon 5/27/24	-17 days	NA	NA	112	118FS+1 day,1	0%
114	Inverter Field Service Notification	5 days	Wed 5/22/24	Mon 5/27/24	31 days	Wed 3/6/24	Tue 3/12/24	113FF		0%
115	Notify Utility of Commissioning	2 days	Tue 4/23/24	Wed 4/24/24	11 days	Wed 3/6/24	Thu 3/7/24	110	118FS+1 day,1	0%
116	Transformer NETA Test Report	5 days	Tue 4/9/24	Sat 4/13/24	68 days	Fri 3/1/24	Wed 2/7/24	97		0%
117	Polarity, Voc & Isc Test	5 days	Thu 4/4/24	Tue 4/9/24	48 days	Tue 2/27/24	Thu 3/7/24	88,91	130	0%
118	Backfeed Power- Temporary Energization	0 days	Tue 5/28/24	Tue 5/28/24	-17 days	Thu 3/7/24	Thu 3/7/24	115FS+1 day,113	130,120	0%
119	**Commissioning Activities**	**23 days**	**Thu 5/9/24**	**Tue 6/4/24**	**-11 days**	**Wed 3/6/24**	**Fri 4/19/24**			**0%**
120	Inverter Commissioning	3 days	Wed 5/29/24	Fri 5/31/24	-17 days	Fri 3/8/24	Thu 3/14/24	113,115,118	130,121SS+1 c	0%
121	Relay Setting Upload and Functionality Test	3 days	Thu 5/30/24	Sat 6/1/24	-17 days	Fri 3/8/24	Fri 3/8/24	120SS+1 day	130,122	0%
122	Communications Test	2 days	Mon 6/3/24	Tue 6/4/24	-17 days	Fri 3/15/24	Thu 4/11/24	121	130,123	0%
123	Operating Current Test	0 days	Thu 5/9/24	Fri 5/10/24	6 days	Fri 4/12/24	Fri 4/19/24	122	130,125,124FS	0%
124	National Grid Witness Test	3 days	Mon 5/13/24	Wed 5/15/24	6 days	Mon 3/11/24	Fri 3/15/24	123FS+1 day	130,125	0%
125	Placed in Service	0 days	Wed 5/15/24	Wed 5/15/24	6 days	Mon 3/18/24	Fri 4/5/24	123,124	130,16,126	0%
126	IR Thermal Imaging	1 day	Thu 5/16/24	Thu 5/16/24	6 days	Fri 3/29/24	Mon 4/1/24	125	130,127	0%
127	DC IV Curve Tracing	5 days	Fri 5/17/24	Wed 5/22/24	6 days	Fri 3/15/24	Thu 3/28/24	126	130,128	0%
128	Performance Test/Capactiy Test	5 days	Thu 5/23/24	Tue 5/28/24	6 days	Mon 4/1/24	Fri 4/19/24	127	130,129FF	0%
129	Punchlist Creation	5 days	Thu 5/23/24	Tue 5/28/24	9 days	Mon 4/15/24	Fri 4/19/24	128FF	133	0%
130	Substanial Completion Achieved	0 days	Tue 6/4/24	Tue 6/4/24	0 days	Fri 4/19/24	Fri 4/19/24	117,118,127,122	17,132	0%
131	**Final Completion**	**30 days**	**Wed 5/29/24**	**Tue 7/2/24**	**0 days**	**Mon 2/19/24**	**Fri 5/24/24**			**0%**
132	Permit Closeout and Inspections	14 days	Wed 6/5/24	Thu 6/20/24	0 days	Mon 4/22/24	Fri 5/3/24	130,110	136,135,137	0%

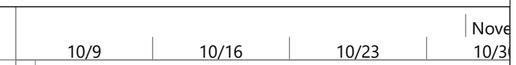


Project: Elk Street Construction
Date: Tue 3/19/24

Task | Project Summary | Manual Task | Start-only | Deadline
Split | Inactive Task | Duration-only | Finish-only | Progress
Milestone | Inactive Milestone | Manual Summary Rollup | External Tasks | Manual Progress
Summary | Inactive Summary | Manual Summary | External Milestone

Elk Street Solar
Construction Schedule - Update 3/11/24

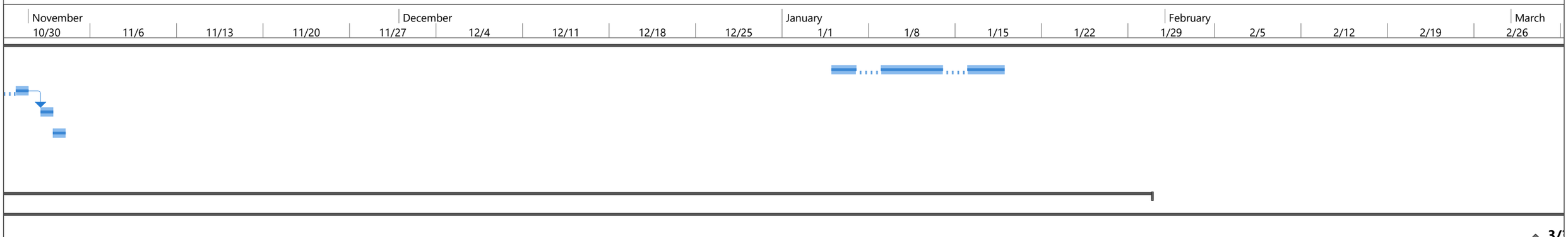
ID	Task Name	Duration	Start	Finish	Total Slack	Baseline Start	Baseline Finish	Predecessors	Successors	% Complete
133	Punch-List Completion	11 days	Wed 5/29/24	Mon 6/10/24	9 days	Mon 4/22/24	Fri 5/3/24	129	134,137	0%
134	Closeout Documents and Lien Waivers	10 days	Tue 6/11/24	Fri 6/21/24	9 days	Mon 5/6/24	Fri 5/17/24	133	137	0%
135	Training	1 day	Fri 6/21/24	Fri 6/21/24	9 days	Mon 5/6/24	Mon 5/6/24	132	137	0%
136	Issue Record Drawings & O&M Manual	10 days	Fri 6/21/24	Tue 7/2/24	0 days	Mon 5/6/24	Fri 5/17/24	132	137	0%
137	Final Completion achieved	0 days	Tue 7/2/24	Tue 7/2/24	0 days	Fri 5/17/24	Fri 5/17/24	132,133,134,135	18	0%



Project: Elk Street Construction
Date: Tue 3/19/24

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress

Elk Street Solar
Construction Schedule - Update 3/11/24



Project: Elk Street Construction
Date: Tue 3/19/24

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Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	

Elk Street Solar
Construction Schedule - Update 3/11/24

November				December					January				February				March
10/30	11/6	11/13	11/20	11/27	12/4	12/11	12/18	12/25	1/1	1/8	1/15	1/22	1/29	2/5	2/12	2/19	2/26

Project: Elk Street Construction
Date: Tue 3/19/24

Task	Project Summary	Manual Task	Start-only	Deadline
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Elk Street Solar
Construction Schedule - Update 3/11/24

November				December					January				February				March
10/30	11/6	11/13	11/20	11/27	12/4	12/11	12/18	12/25	1/1	1/8	1/15	1/22	1/29	2/5	2/12	2/19	2/26

Project: Elk Street Construction
Date: Tue 3/19/24

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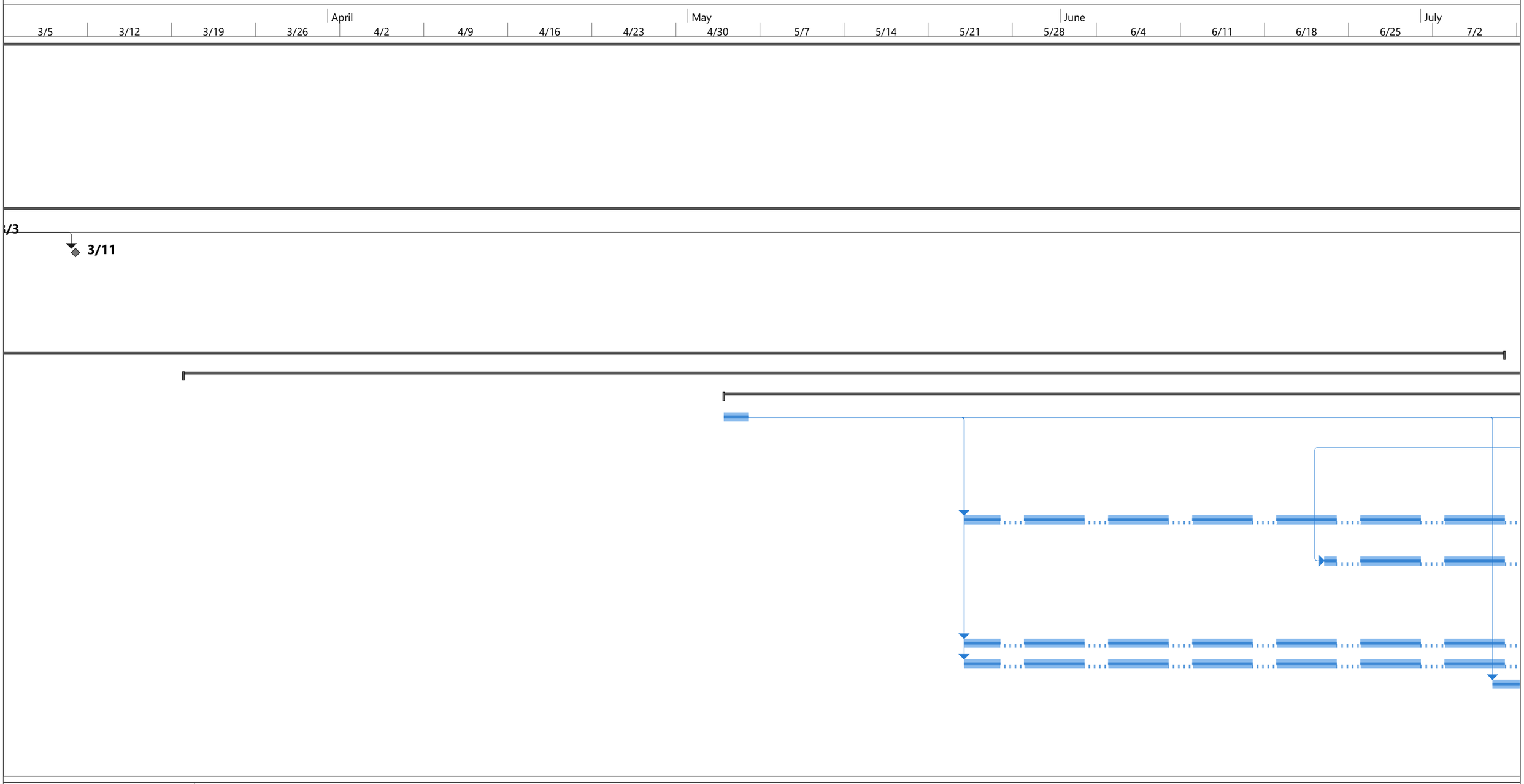
Elk Street Solar
Construction Schedule - Update 3/11/24

November				December					January				February				March
10/30	11/6	11/13	11/20	11/27	12/4	12/11	12/18	12/25	1/1	1/8	1/15	1/22	1/29	2/5	2/12	2/19	2/26

Project: Elk Street Construction
Date: Tue 3/19/24

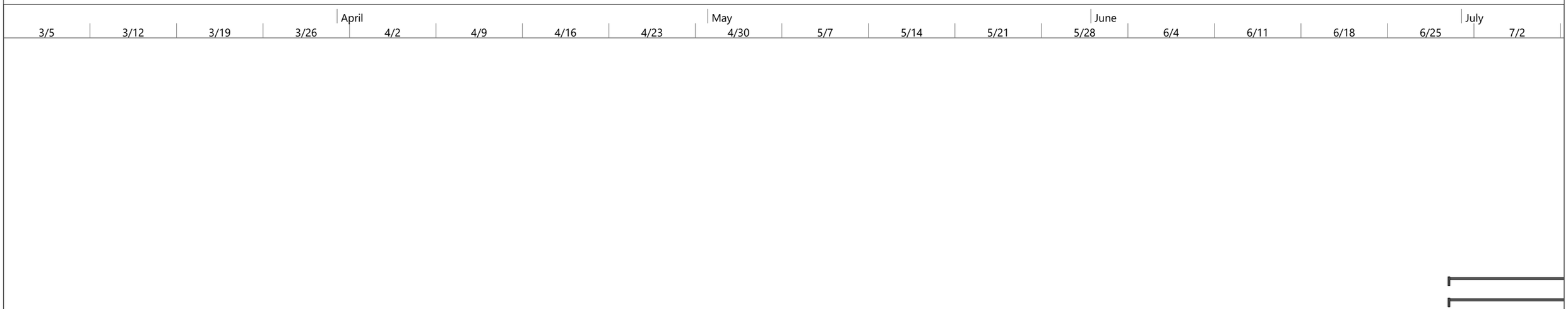
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Elk Street Solar
Construction Schedule - Update 3/11/24



Project: Elk Street Construction Date: Tue 3/19/24	Task		Project Summary		Manual Task		Start-only		Deadline		
	Split		Inactive Task		Duration-only		Finish-only		Progress		
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress		
	Summary		Inactive Summary		Manual Summary		External Milestone				

Elk Street Solar
Construction Schedule - Update 3/11/24



Project: Elk Street Construction
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Elk Street Solar
Construction Schedule - Update 3/11/24

April				May					June					July				
3/5	3/12	3/19	3/26	4/2	4/9	4/16	4/23	4/30	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	

Project: Elk Street Construction
Date: Tue 3/19/24

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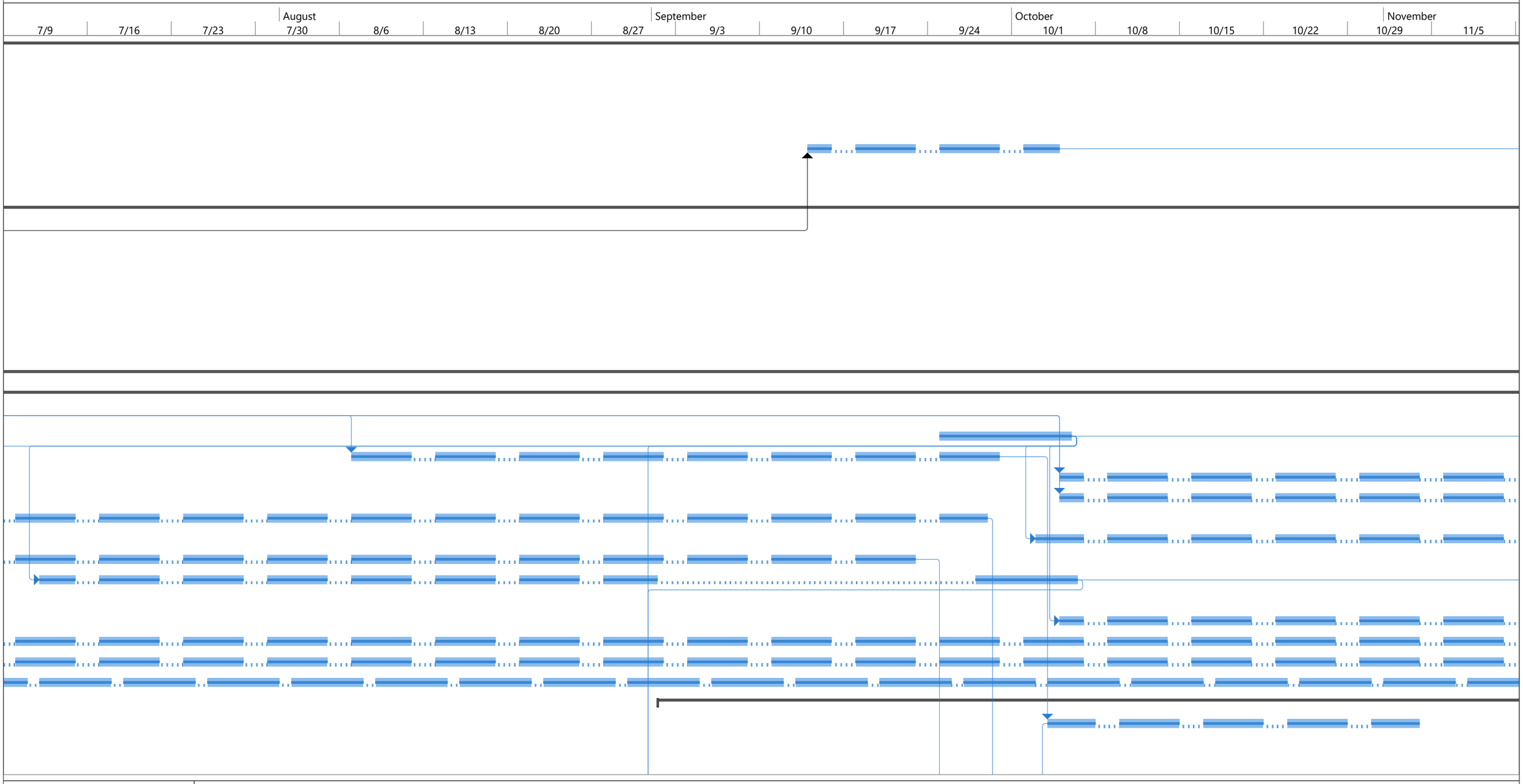
Elk Street Solar
Construction Schedule - Update 3/11/24



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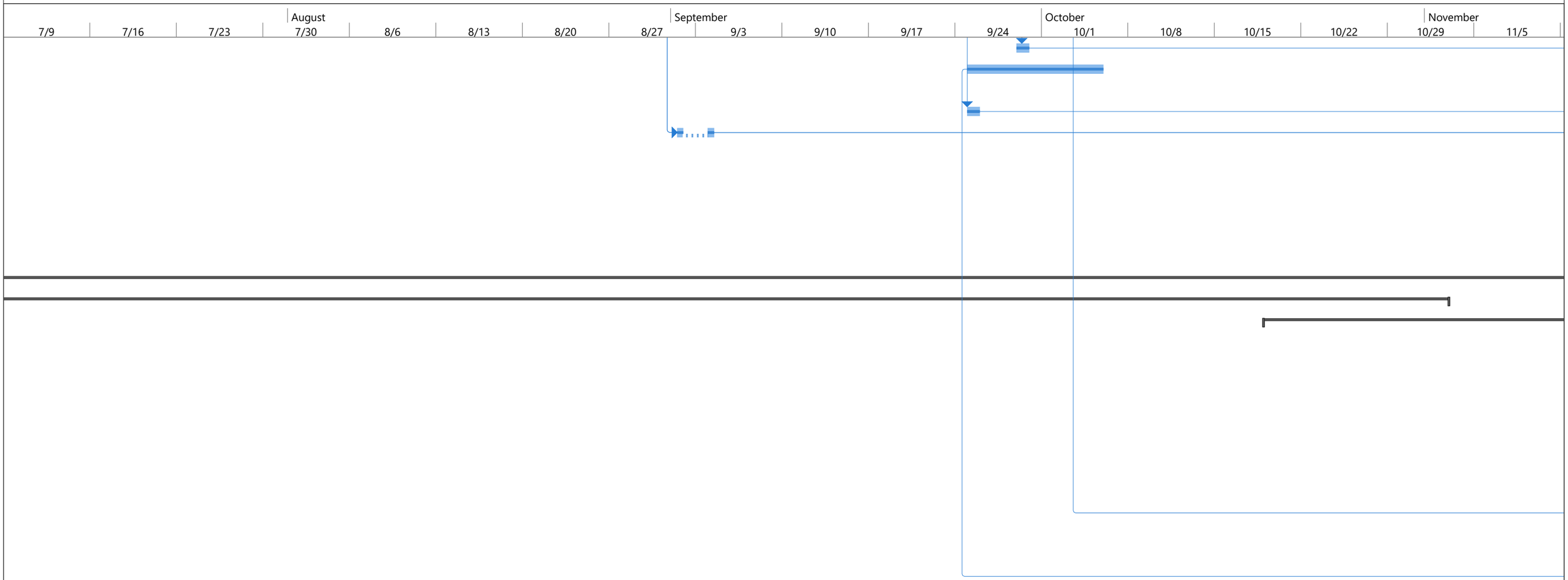
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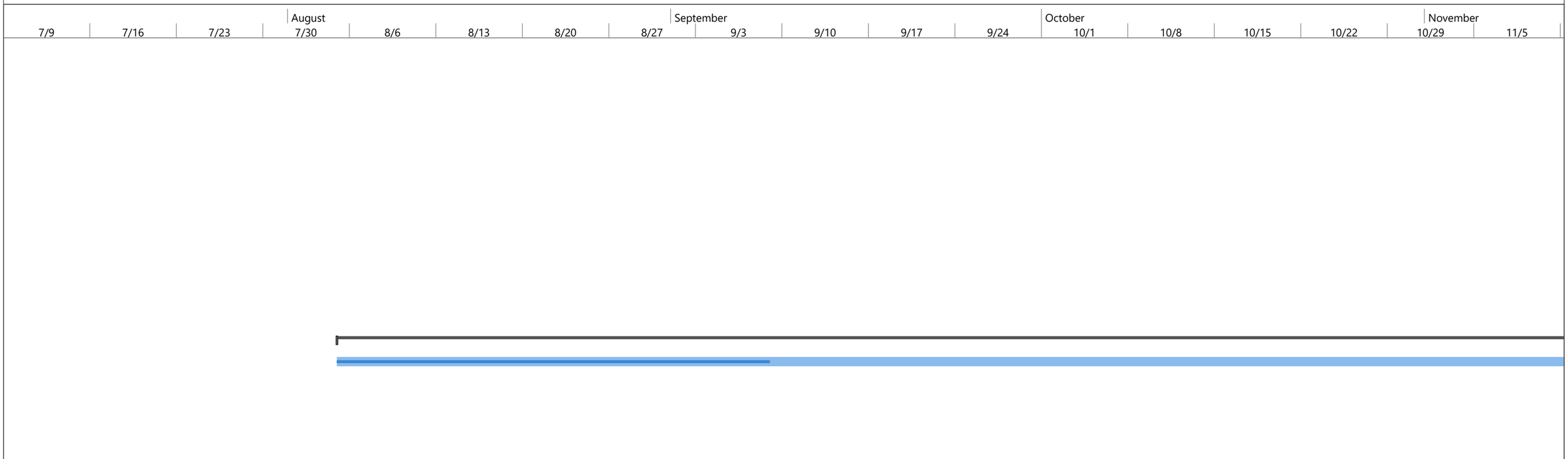
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Construction Schedule - Update 3/11/24



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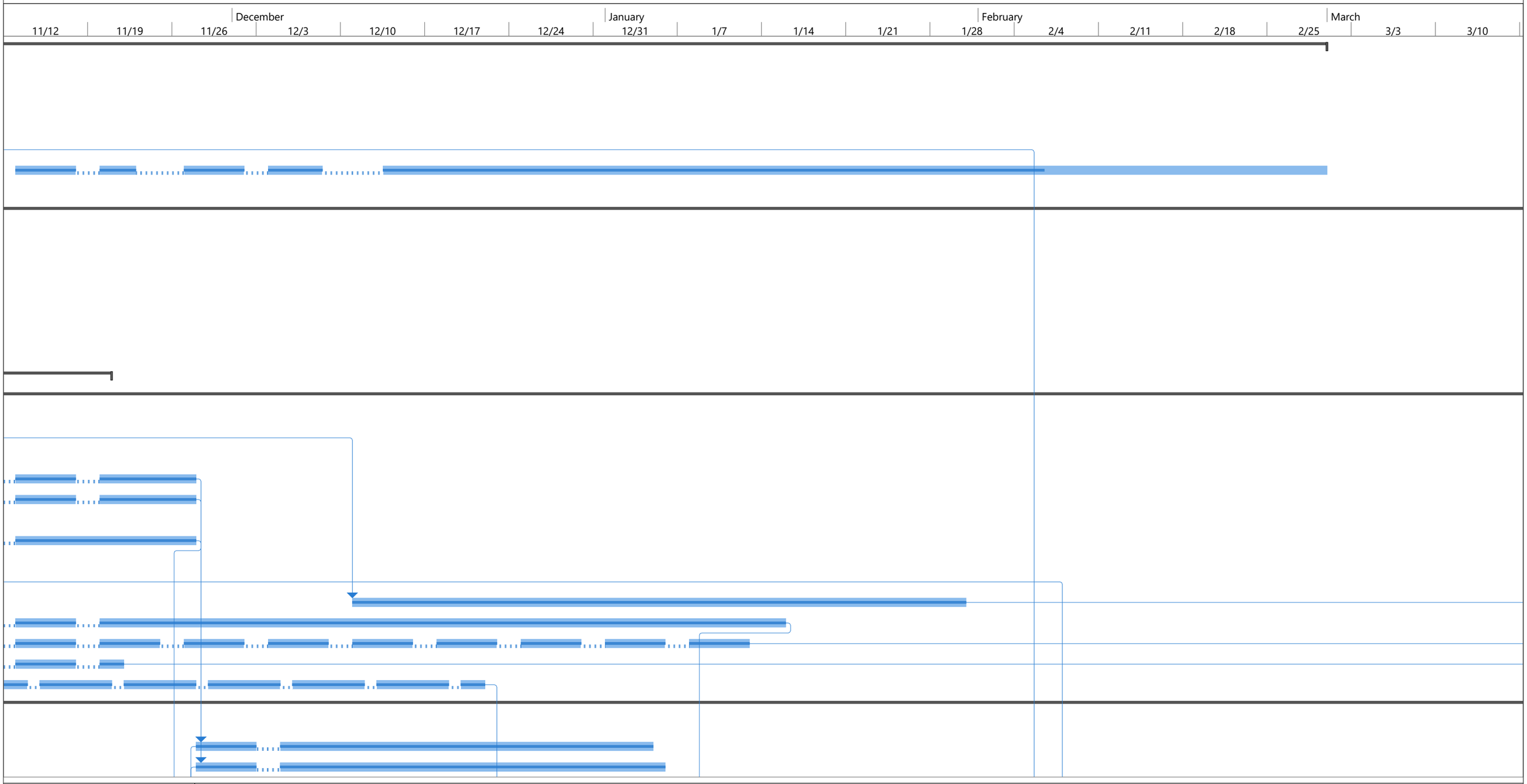
Elk Street Solar
Construction Schedule - Update 3/11/24

	August					September					October					November	
7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	9/3	9/10	9/17	9/24	10/1	10/8	10/15	10/22	10/29	11/5

Project: Elk Street Construction
Date: Tue 3/19/24

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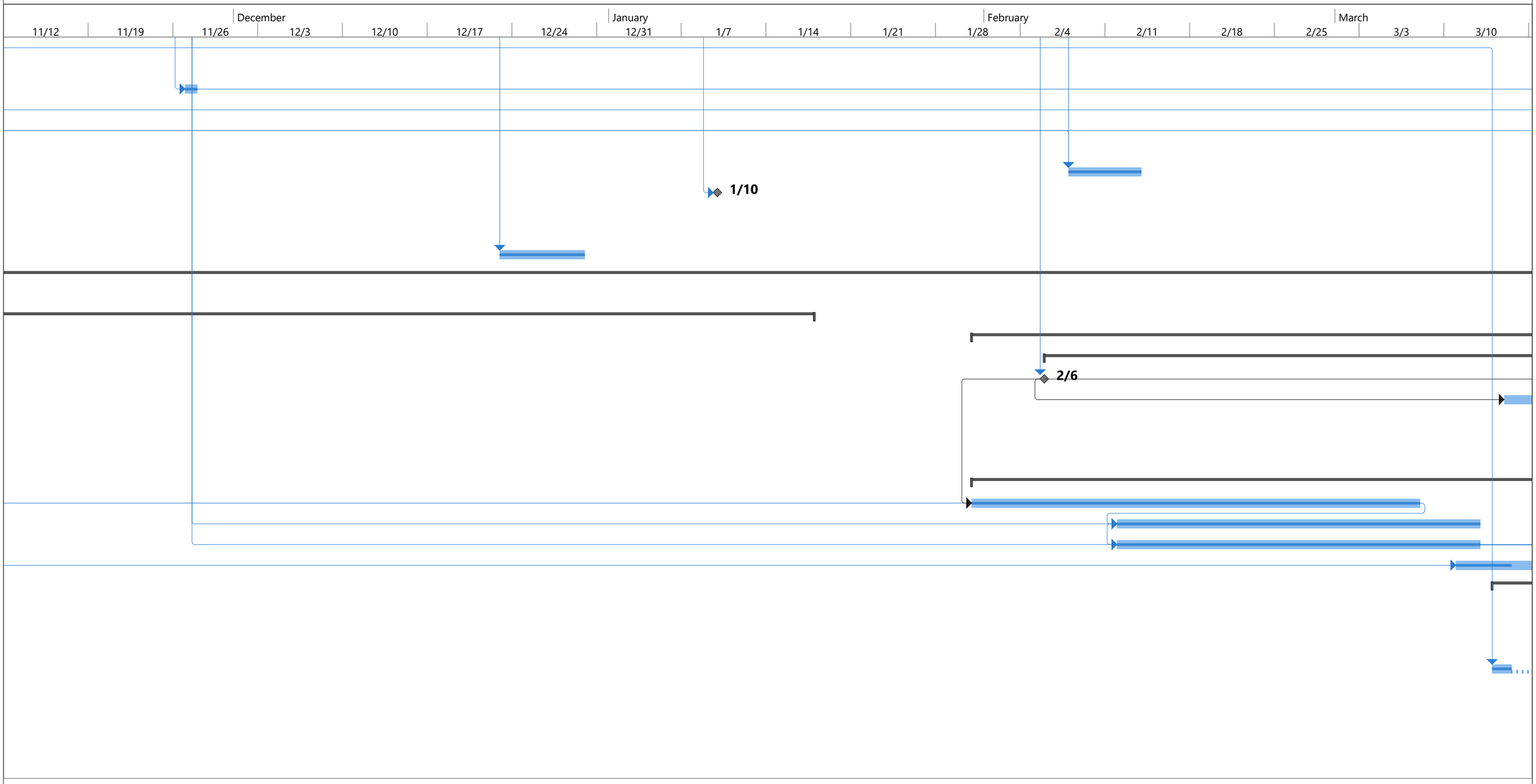
Elk Street Solar
Construction Schedule - Update 3/11/24



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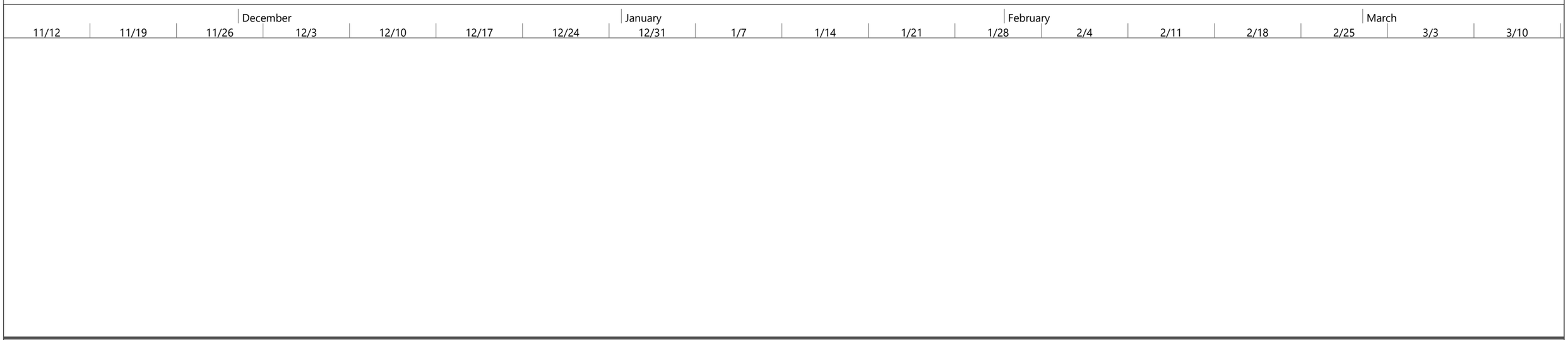
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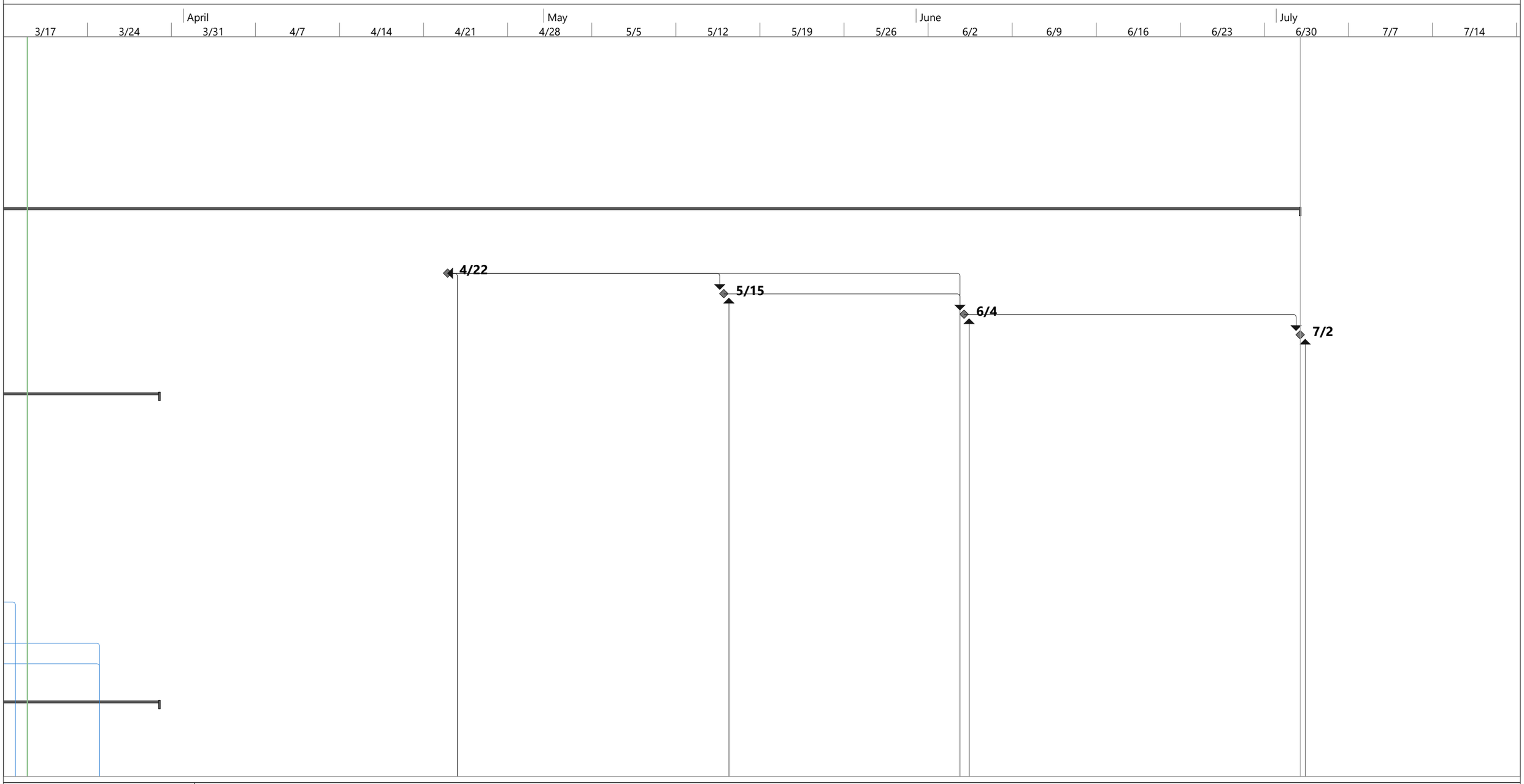
Elk Street Solar
Construction Schedule - Update 3/11/24

December							January					February					March	
11/12	11/19	11/26	12/3	12/10	12/17	12/24	12/31	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/3	3/10

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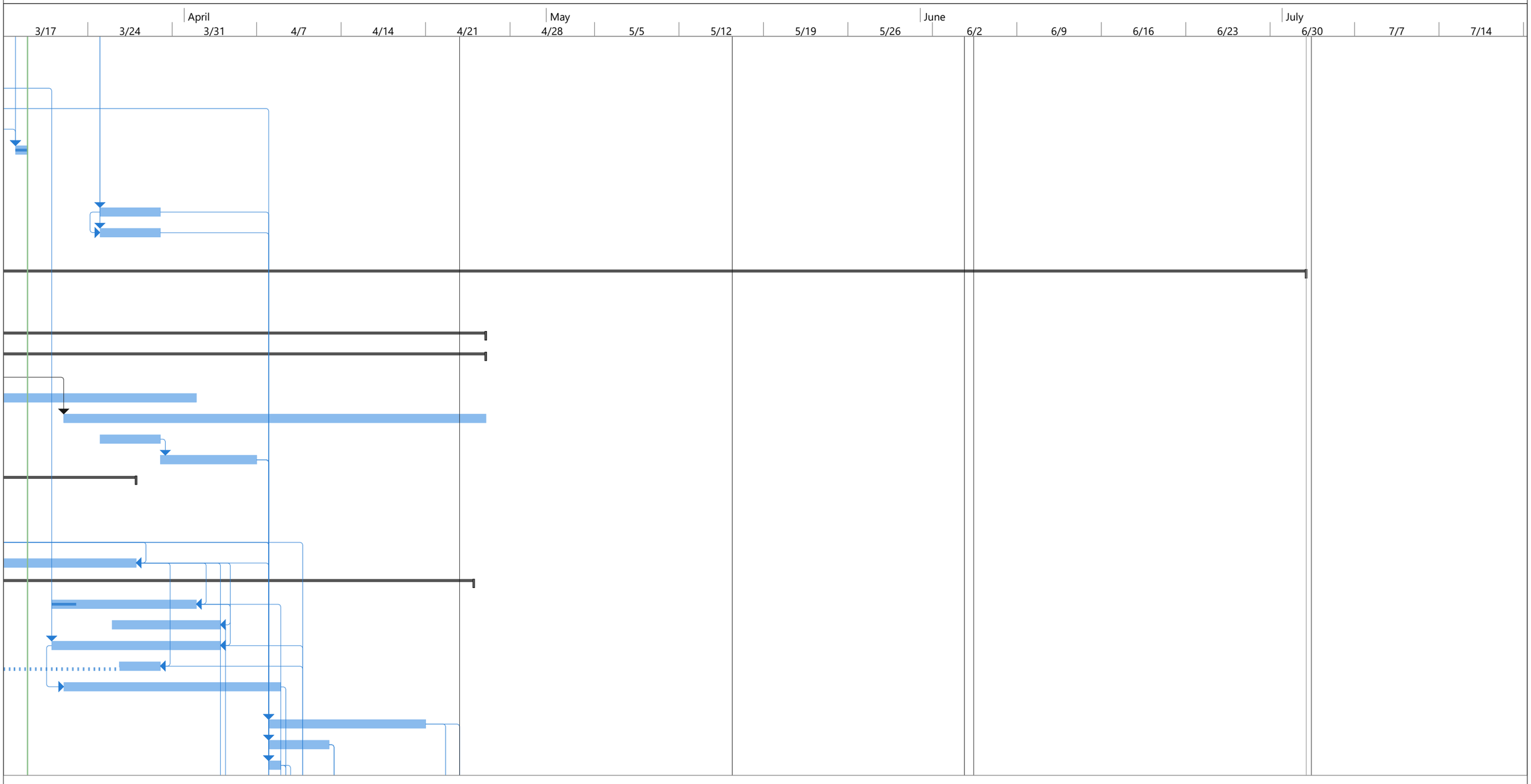
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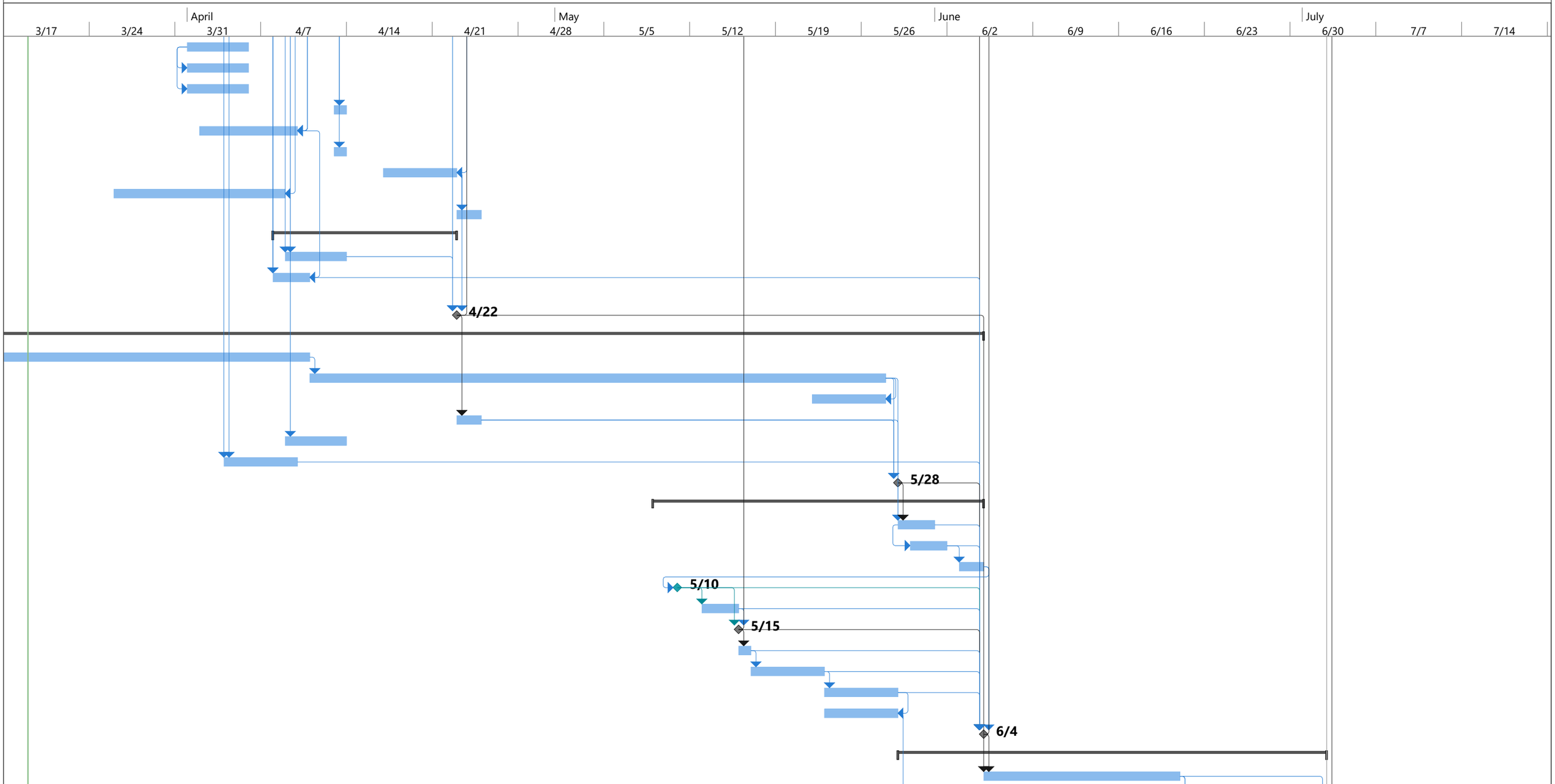
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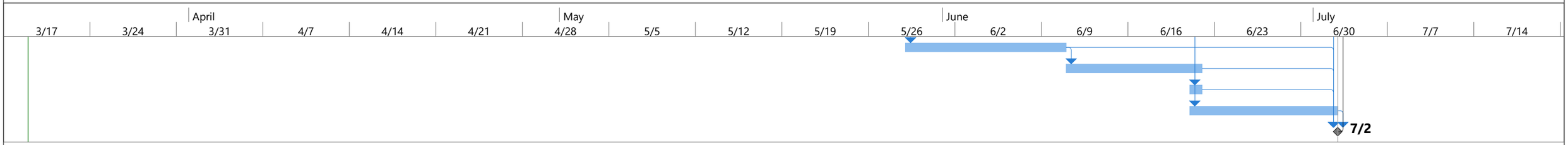
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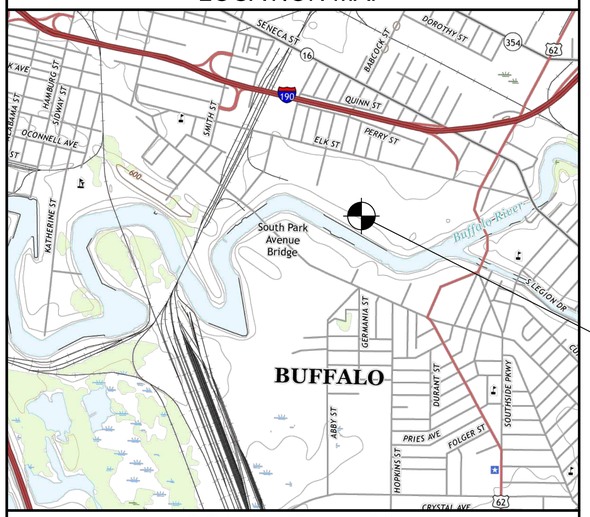
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LOCATION MAP



SITE LOCATION

SCALE: 1" = 1,500'

ELK STREET
SOLAR DEVELOPMENT PROJECT

SITE ADDRESS: 503 ELK STREET, BUFFALO, NY 14210
TAX ID#: 123.13-1-2.111

PREPARED FOR:

INOVATEUS SOLAR LLC

19890 STATE LINE ROAD
SOUTH BEND, IN 46637

ENGINEER:

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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C&A #: 5566.02

DATE: SEPTEMBER 5, 2023
REVISED: MARCH 22, 2024

ISSUED FOR CONSTRUCTION - CIVIL

STATE OF NEW YORK · JENNIFER SUZANNE CRAWFORD · LICENSED PROFESSIONAL ENGINEER · 100556
3/22/2024

DRAWINGS:

T-0.0 TITLE SHEET
T-0.1 CONSTRUCTION NOTES
T-0.2 CONSTRUCTION ACCESS & STAGING

C-1.0 EXISTING CONDITIONS SITE MAP
C-1.1 PROPOSED CONDITIONS SITE PLAN
C-1.2 ARRAY DIMENSIONS – AREA 1
C-1.3 ARRAY DIMENSIONS – AREA 2
C-1.4 ARRAY DIMENSIONS – AREA 3
C-1.5 ARRAY DIMENSIONS – AREA 4
C-1.6 ARRAY DIMENSIONS – AREA 5
C-1.7 FENCE DIMENSIONS
C-1.8 SITE PREPARATION PLAN
C-1.9 SITE RESTORATION PLAN
C-1.10 LAYDOWN YARD DESIGN
C-1.11 TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
C-1.12 DRIVEWAY DESIGN
C-1.13 POLE INSTALLATION SPECIFICATIONS

C-5.0 EROSION & SEDIMENT CONTROL DETAILS
C-5.1 FENCE DETAILS
C-5.2 DRIVEWAY DETAILS & ELEVATIONS
C-5.3 MISCELLANEOUS CIVIL DETAILS
C-5.4 CIVIL CALCULATIONS

STAKEHOLDERS:
EPC: INOVATEUS SOLAR, LLC
SURVEYOR: AMEC E&E P.C.
CIVIL & ELECTRICAL ENGINEER(S) OF RECORD: CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, P.C.
STRUCTURAL ENGINEER(S) OF RECORD: KIMLEY-HORN AND ASSOCIATES, INC., TERRASMART, LLC.
PERMIT ENGINEER: LABELLA ASSOCIATES, P.C.
INTERCONNECTION DESIGN: JEM ENGINEERING SERVICES, LLC
SITE OWNER: ELK STREET COMMERCE PARK, LLC (ESCP)
POWER BUYER: COMMUNITY DISTRIBUTED GENERATION
UTILITY: NATIONAL GRID
PROJECT OWNER: ELK STREET SOLAR, LLC., A SUBSIDIARY OF BQ ENERGY

BROWNFIELD NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE CHANGE OF USE LETTER - WORK PLAN: 503, 623, 625, 635 ELK STREET, BUFFALO, NY (NYSDEC SITES #C915201D AND #C915201B) PREPARED BY LABELLA ASSOCIATES, P.C.
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO INOVATEUS SOLAR A SITE-SPECIFIC HEALTH AND SAFETY PLAN AT LEAST TWO WEEKS PRIOR TO START OF CONSTRUCTION.
3. ACCESS TO EXISTING EXTRACTION WELLS MUST BE MAINTAINED ON SITE. NO STRUCTURES SHALL BE INSTALLED WITHIN A TEN (10) FOOT CLEARANCE FROM EXTRACTION WELLS.
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT THE PROPOSED CONSTRUCTION WORK ASSOCIATED WITH THE SOLAR PROJECT SHALL NOT IN ANY WAY DAMAGE THE IMPERMEABLE GSL LINER, EXTRACTION WELLS, EXTRACTION WELL PIPING, OR OTHER SITE FEATURES INSTALLED AS PART OF THE SITE REMEDIATION PROJECT. IF DAMAGE OCCURS TO ANY OF THE ABOVE-LISTED COMPONENTS, THE CONTRACTOR SHALL NOTIFY INOVATEUS SOLAR IMMEDIATELY. A WRITTEN PLAN FOR REPAIR OF THE COMPONENTS SHALL BE PREPARED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION AND ANY REPAIR WORK SHALL BE PROMPTLY COMPLETED. ESCP RESERVES THE RIGHT TO REVIEW AND APPROVE ANY WRITTEN PLANS FOR REPAIR OF COMPONENTS. NOTE THAT ALL CORRESPONDENCE WITH NYSDEC SHALL BE THROUGH ESCP. NEITHER INOVATEUS SOLAR OR THE CONTRACTOR(S) SHALL COMMUNICATE DIRECTLY WITH NYSDEC WITHOUT ADVANCE WRITTEN AUTHORIZATION FROM ESCP.
5. MINIMIZE WORK AND VEHICLE TRAVEL IN 10' SET-BACK ZONES FROM EXTRACTION WELLS TO PREVENT ACCIDENTAL DAMAGE TO THESE STRUCTURES. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, ALL MONITORING WELLS, AND OTHER EXISTING ABOVE-GROUND STRUCTURES OF THE PROJECT SITE SHALL BE FLAGGED FOR VISIBILITY AND PROTECTIVE BARRIERS SHALL BE PLACED AROUND SUCH STRUCTURES TO PREVENT DAMAGE BY VEHICLES ACCESSING THE CAP AREA.
6. CONTACT DIG-SAFE NEW YORK (1-800-962-7962) PRIOR TO EXCAVATING AS REQUIRED BY NYCRR. ALL OPERATORS PERFORMING DIGGING OPERATIONS SHALL BE CERTIFIED BY DSNY CERTIFIED EXCAVATOR PROGRAM AS REQUIRED BY LAW.
7. ANY PROPOSED EXCAVATION GREATER THAN 12" IN DEPTH WILL REQUIRE THE EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO FACILITATE THE EXCAVATION. NEW DEMARCATION LAYER IS TO BE INSTALLED IN THE AFFECTED AREA DURING BACKFILL PRIOR TO REPLACING THE STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.
8. DO NOT USE STEEL PINS, GRADE STAKES, OR OTHER MARKING DEVICES THAT COULD PUNCTURE THE GSL LINER.
9. CAST THE FOUNDATION BLOCKS IN PLACE BY PUMPING CONCRETE OR WITH SPECIALIZED LOW GROUND PRESSURE EQUIPMENT (10 PSI MAXIMUM) TO CARRY CONCRETE TO THE BALLAST BLOCK LOCATION AS SPECIFIED BY THE RACKING MANUFACTURER. PRECAST FOOTINGS MAY BE USED AS LONG AS 10PSI GROUND PRESSURE LIMIT IS NOT VIOLATED.
10. IF WINTER WORK IS REQUIRED, THE CONTRACTOR SHALL SUBMIT A COLD-WEATHER CONCRETING PLAN SPECIFICALLY FOR THE INSTALLATION OF THE CONCRETE FOOTINGS. THE PLAN SHALL BE PREPARED IN GENERAL ACCORDANCE WITH ACI 306R GUIDE TO COLD WEATHER CONCRETING, OR OTHER EQUIVALENT INDUSTRIAL STANDARD. THE PLAN SHALL BE SUBMITTED TO INOVATEUS SOLAR AT LEAST TWO WEEKS PRIOR TO START OF CONSTRUCTION FOR APPROVAL.

PROCEDURAL NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORDS OF ANY DISCREPANCIES NOTED TO EXISTING CONDITIONS, STRUCTURE, ELECTRICAL RUNS (SPECIFY EXISTING ITEMS), ETC. AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS OR CODES, REGULATIONS OR RULES OF JURISDICTIONS HAVING AUTHORITY.
2. A PRE-CONSTRUCTION CONFERENCE IS TO BE HELD BETWEEN THE CONTRACTOR, DEVELOPER, ESCP, CITY OF BUFFALO BUILDING DEPARTMENT AND ANY OTHER INVOLVED PARTIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. ALL DIMENSIONS OF EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING OF EQUIPMENT DURING INSTALLATION.
5. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS, OSHA REQUIREMENTS AND SAFETY MEASURES ON SITE. THE EOR HAS NO OVERALL SUPERVISORY AUTHORITY AND NO DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS OR FOR POSSIBLE EXISTING HAZARDS.
6. CONTRACTOR SHALL PAY FOR AND SECURE ALL PERMITS AND UNDERWRITERS CERTIFICATES.
7. ALL METERS, INSTRUMENTS, CABLE CONNECTION EQUIPMENT AND APPARATUS NECESSARY FOR PERFORMING ALL TESTS SHALL BE FURNISHED BY THE CONTRACTOR.
8. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER OF RECORD AND ESCP FOR APPROVAL PRIOR TO MAKING THE CHANGES. ESCP RESERVES THE RIGHT TO REVIEW AND APPROVE ANY CONTRACTOR INITIATED CHANGES. APPROVED CHANGES SHALL REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE ENGINEER APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO ENGINEERING APPROVAL PLACES ALL LIABILITY ON THE CONTRACTOR.
9. CONTRACTOR SHALL PROVIDE RED-LINED AS-BUILT DRAWINGS THAT INCLUDE ALL DEVIATIONS FROM THE DESIGN DRAWINGS.

GENERAL REQUIREMENTS:

1. ANY WASTE GENERATED AT THE SITE BY THIS WORK SHALL BE DISPOSED OF IN ACCORDANCE WITH THE SITE MANAGEMENT PLAN AND ANY APPLICABLE LOCAL, STATE OR FEDERAL LAWS. IN PARTICULAR, ANY WASTE SOIL GENERATED MUST BE CONTAINERIZED AND, IF REQUIRED, CATEGORIZED FOR OFFSITE DISPOSAL. MANIFESTS FOR SUCH DISPOSAL SHALL BE PROVIDED TO ESCP OR THEIR REPRESENTATIVE FOR INCLUSION IN THE ANNUAL PERIODIC REVIEW REPORT (PRR).
2. BULK STORAGE OF HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO PETROLEUM PRODUCTS, SHALL NOT BE PERMITTED ON SITE WITHOUT THE EXPRESS WRITTEN APPROVAL OF ESCP.
3. ALL SYSTEMS INTENDED TO BE CONNECTED TO EXISTING FACILITIES AT ONE POINT OF COMMON COUPLING (PCC), SHALL BE IN COMPLIANCE WITH NEC ARTICLE 705.12 "POINT OF CONNECTION".
4. ALL DISCONNECTING COMBINERS, PULL/SPLICE BOXES, AND ENCLOSURES SHALL BE LISTED FOR ITS PURPOSE.
5. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS PRIOR TO PERFORMING ANY WORK.
6. CONTRACTOR IS RESPONSIBLE FOR ALL WASTE PRODUCED AND PROPER DISPOSAL FROM THE SITE.
7. THE PROJECT DESIGN WILL COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL ELECTRICAL CODES FOR THE PROJECT SITE.
8. ALL EQUIPMENT SHALL BE INSTALLED IN A SECURE AREA.
9. THE INVERTER FOR THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE IDENTIFIED FOR USE IN SOLAR PHOTOVOLTAIC SYSTEMS.
10. ALUMINUM POWER CABLE, WIRE CONNECTORS, AND INSULATING AND CODING TAPE MANUFACTURERS SHALL BE APPROVED BY THE PROJECT OWNER PRIOR TO USAGE.
11. ALL DISCONNECTING COMBINERS SHALL BE SECURED FROM UNAUTHORIZED/UNQUALIFIED PERSONNEL BY LOCK OR LOCATION.
12. CONDUITS AND CABLES SHALL NOT ENTER THE TOP OF ANY OUTDOOR ENCLOSURE WITHOUT WRITTEN APPROVAL FROM THE PROJECT OWNER.
13. CONDUITS SHALL BE ORIENTED TO PREVENT WATER ENTRY INTO ENCLOSURES.
14. A LISTED FITTING SHALL BE USED TO PREVENT THE ENTRY OF MOISTURE WHEN TRANSITIONING FROM FREE AIR TO CONDUCTORS IN CONDUIT.
15. IF THE LOCATIONS OF SOME EQUIPMENT AND DEVICES AT WHICH CIRCUITS TERMINATE ARE APPROXIMATE ACCORDING TO THE PLAN SET, THEY SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL EACH CIRCUIT TO THE INTENDED EQUIPMENT TERMINATION POINT WITHOUT ADDITIONAL CHARGES TO THE PROJECT OWNER, ALTHOUGH ITS FINAL LOCATION MAY SHIFT SOMEWHAT FROM THAT WHICH IS SHOWN.
16. AFTER ALL REQUIREMENTS OF THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE PROJECT OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE PROJECT OWNER AFTER DELIVERY OF RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

REV #	DESCRIPTION	DATE	BY
1	UPDATES PER DEC COMMENTS	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

CONSTRUCTION NOTES

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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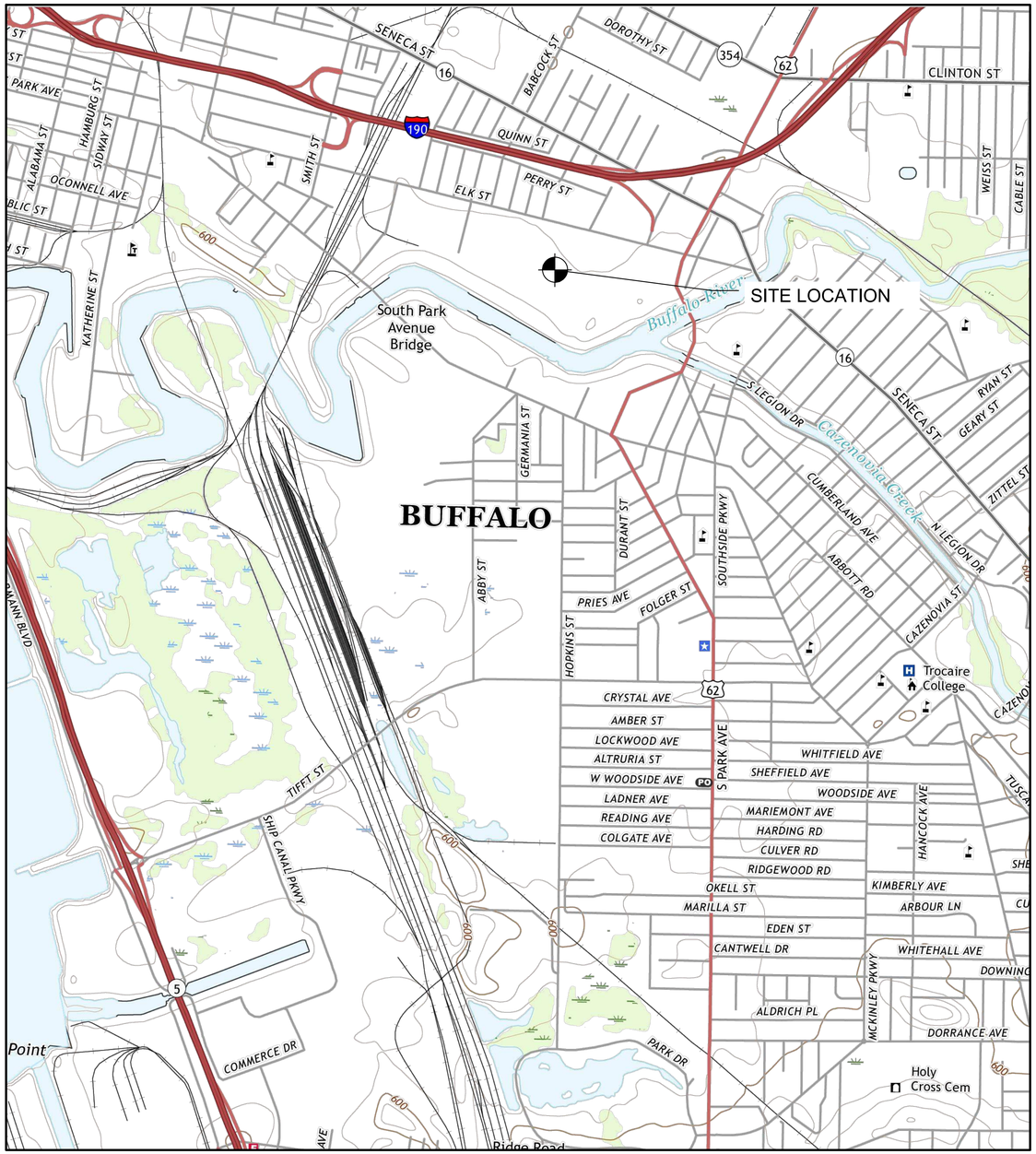
LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — JENNIFER SUZANNE CRAWFORD — 100556
9/5/2024

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SCALE: AS SHOWN	DESIGNED BY: TSB, JAT	C&A JOB#: 5566.03	DRAWING: T-0.1
	CHECKED BY: TSB, JSC		
	APPROVED BY: JSC		

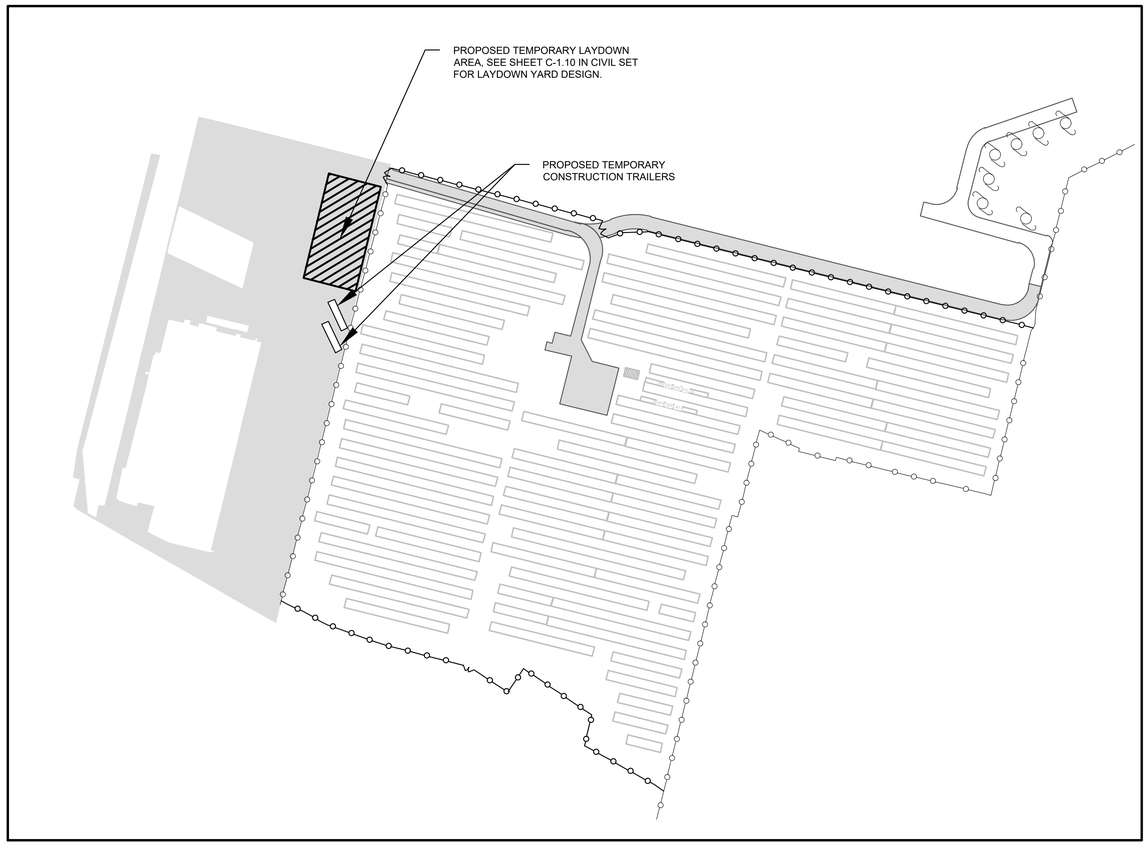
DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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5. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION, AND MAY BE CHANGED BY THE UTILITY AT ANY TIME IN THE FUTURE.



LOCATION MAP
SCALE: 1" =1000'

GRAPHIC SCALE
1000 0 500 1000 2000 4000
(IN FEET)
1 inch = 1000 ft.



CONSTRUCTION STAGING AREA
SCALE: 1" =100'

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

CONSTRUCTION
ACCESS AND STAGING

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

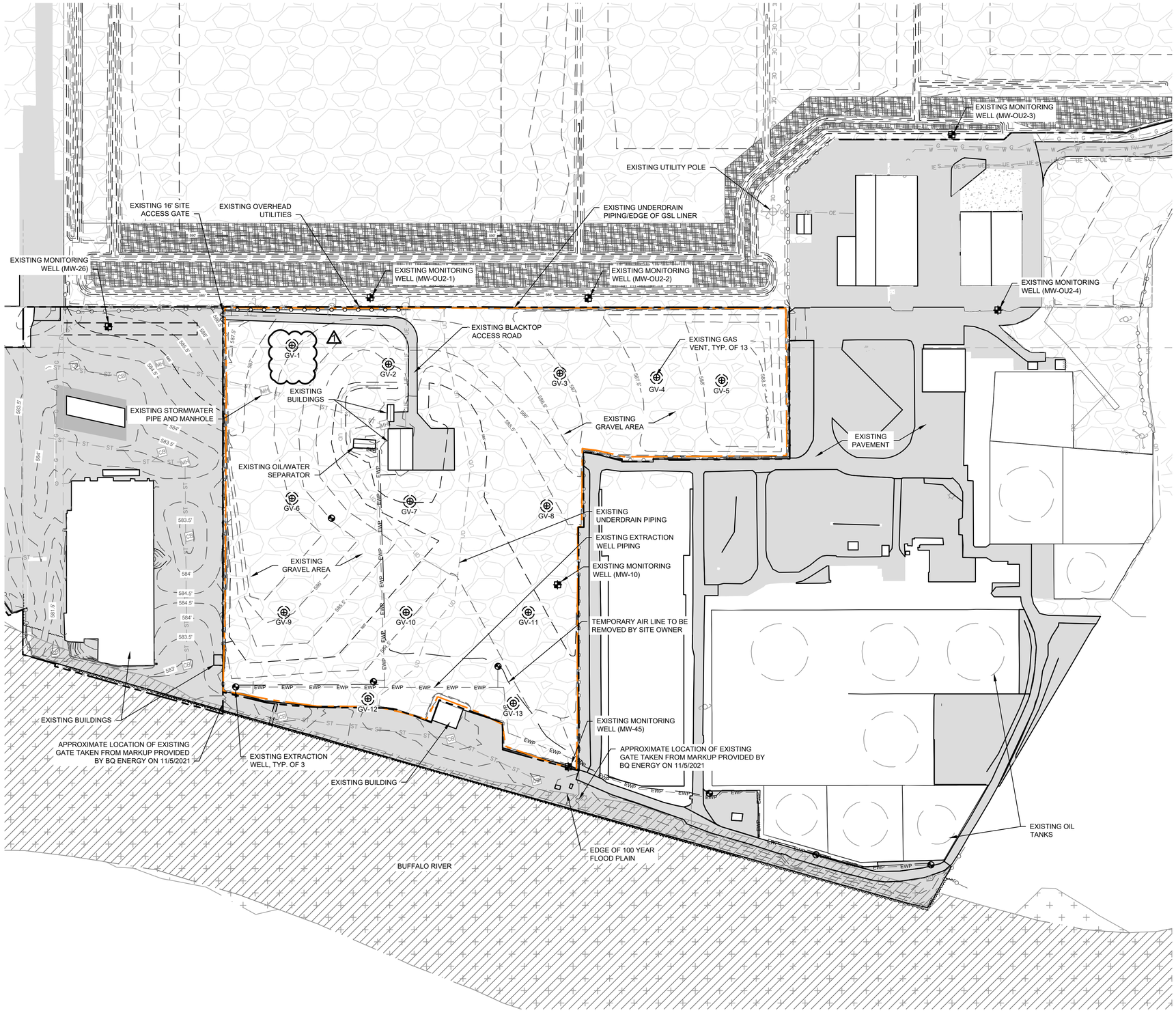
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9/5/2024

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AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: T-0.2



EXISTING CONDITIONS SITE MAP

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING CONTOUR .5' INTERVAL
- EXISTING CONTOUR 5' INTERVAL
- EXISTING LEASE LINE
- EXISTING ROAD EDGE
- EXISTING FENCE
- EXISTING STORMWATER LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING FIRE WATER LINE
- EXISTING SEWER LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING EXTRACTION WELL PIPE
- EXISTING TEMPORARY AIR LINE
- EXISTING UNDERDRAIN
- EXTENT OF GSL LINER/EXISTING UNDERDRAIN
- EXISTING STORMWATER MANHOLE
- EXISTING STORMWATER CATCH BASIN
- EXISTING BUILDING
- EXISTING/PROPOSED PAVEMENT HATCH
- REGULATORY FLOODWAY
- EXISTING CRUSHED STONE CAP MATERIAL
- EXISTING STORMWATER BASIN
- 100-YEAR FLOODPLAIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING GUY WIRE

REV #	DESCRIPTION	DATE	BY
1	VENT LOCATION UPDATED	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

EXISTING CONDITIONS SITE MAP

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

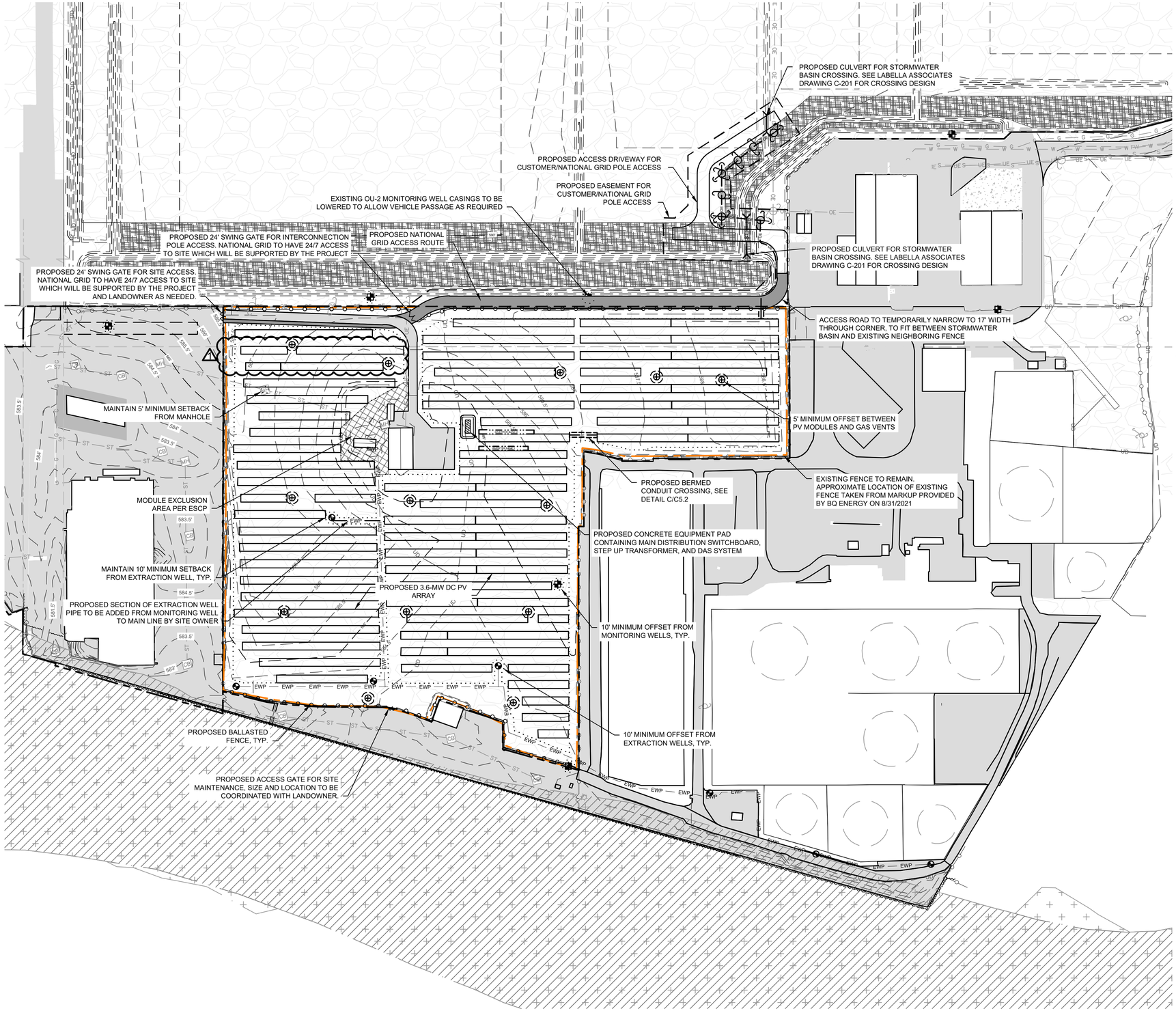
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www.crawfordandassociates.com
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5/22/2024

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AS SHOWN	APPROVED BY: JSC	DRAWING: C-1.0



PROPOSED CONDITIONS SITE PLAN

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)

1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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LEGEND

- EXISTING CONTOUR .5' INTERVAL
- EXISTING CONTOUR 5' INTERVAL
- EXISTING LEASE LINE
- EXISTING/PROPOSED ROAD EDGE
- EXISTING/PROPOSED FENCE
- EXISTING STORMWATER LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING FIRE WATER LINE
- EXISTING SEWER LINE
- EXISTING/PROPOSED OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING/PROPOSED EXTRACTION WELL PIPE
- EXISTING UNDERDRAIN
- EXTENT OF GSL LINER/EXISTING UNDERDRAIN
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING BUILDING
- EXISTING PAVEMENT HATCH
- PROPOSED PAVEMENT HATCH
- FEMA REGULATORY FLOODWAY
- EXISTING CRUSHED STONE CAP MATERIAL
- EXISTING STORMWATER BASIN
- FEMA 1% ANNUAL CHANCE FLOOD ZONE HATCH
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED LIGHT POLE
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- APPROXIMATE EXISTING UTILITY EASEMENT
- PROPOSED CONCRETE EQUIPMENT PAD
- PROPOSED NATIONAL GRID ACCESS AREA
- PROPOSED BERMED CONDUIT CROSSING
- PV MODULE EXCLUSION AREA PER ESCP

REV #	DESCRIPTION	DATE	BY
1	VENT LOCATION UPDATE/NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

PROPOSED CONDITIONS SITE PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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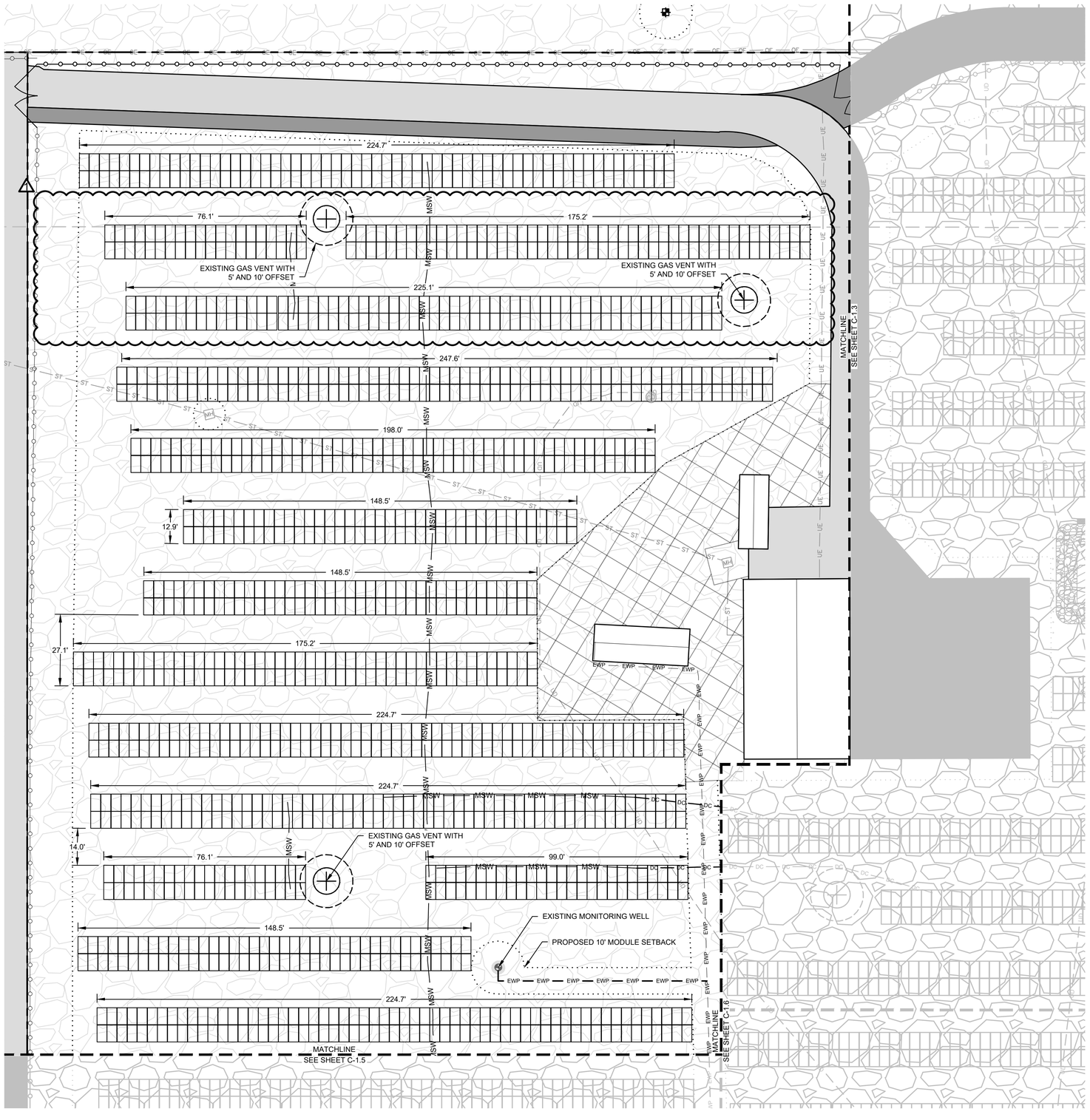
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9/5/2024

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		CHECKED BY: TSB, JSC	DRAWING: C-1.1
		APPROVED BY: JSC	



ARRAY DIMENSIONS - AREA 1

SCALE: 1"= 20'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING/PROPOSED FENCE
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED SHALLOW TRENCHING
- EXISTING/PROPOSED EXTRACTION WELL PIPING
- EXISTING UNDERDRAIN
- EXISTING STORMWATER LINE
- PROPOSED MESSENGER WIRE LOCATION
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED STRING INVERTER
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
1	VENT LOCATION UPDATE/NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY DIMENSIONS - AREA 1

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19890 State Line Road
South Bend, IN 46637

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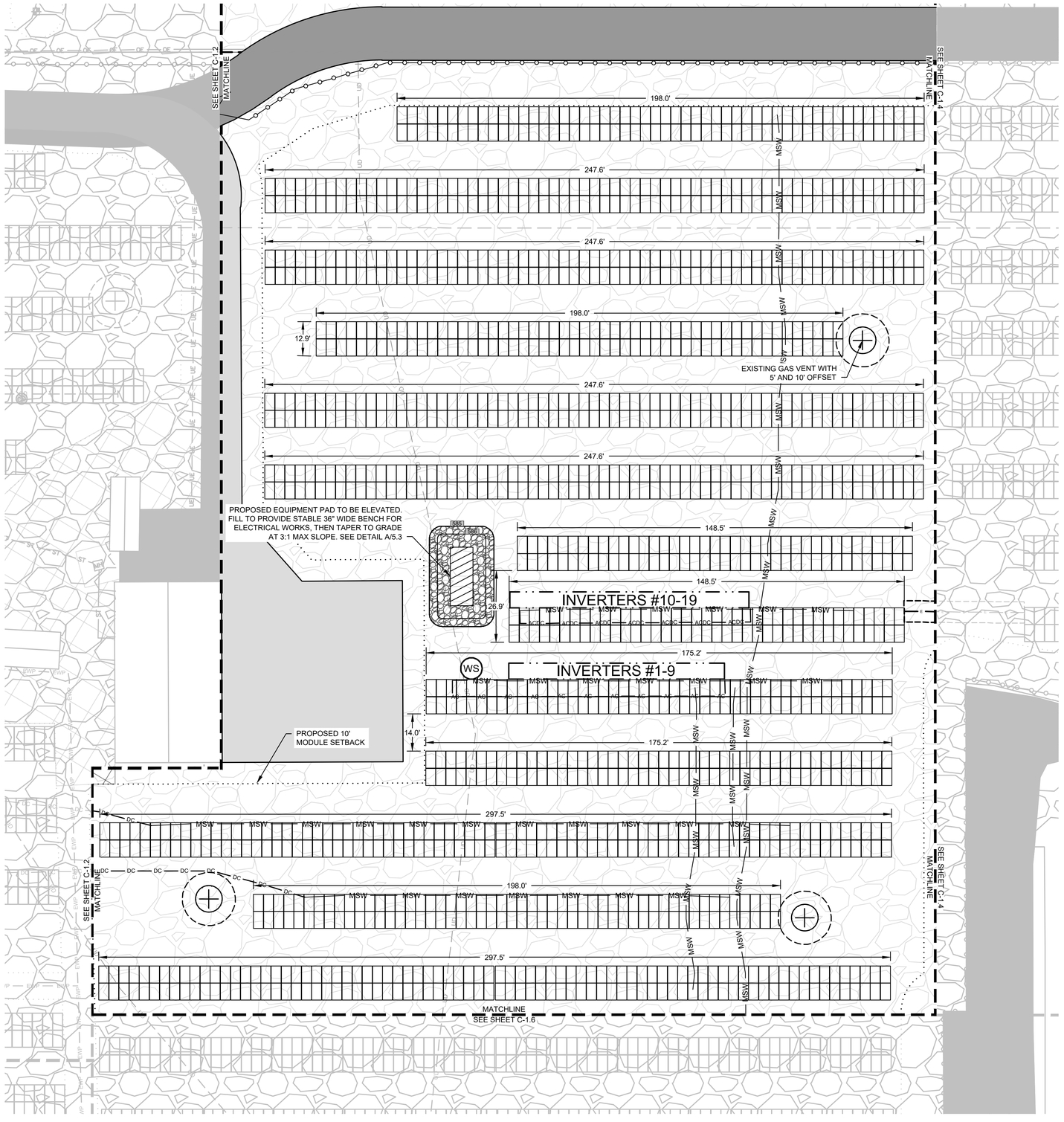
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9/5/2024

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9/5/2023	DESIGNED BY: TSB, JAT	
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ARRAY DIMENSIONS - AREA 2

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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4. 10 FOOT OFFSET FROM GAS VENTS FOR COMBINER BOXES, INVERTERS AND JUNCTIONS OTHER THAN PV SOURCE STRINGS. 5 FOOT OFFSETS FROM GAS VENTS FOR MODULES.
5. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION, AND MAY BE CHANGED BY THE UTILITY AT ANY TIME IN THE FUTURE.

LEGEND

- EXISTING/PROPOSED FENCE
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED SHALLOW TRENCHING
- EXISTING/PROPOSED EXTRACTION WELL PIPING
- EXISTING UNDERDRAIN
- EXISTING STORMWATER LINE
- PROPOSED MESSENGER WIRE LOCATION
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED STRING INVERTER
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP

REV #	DESCRIPTION	DATE	BY
1	NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY DIMENSIONS - AREA 2

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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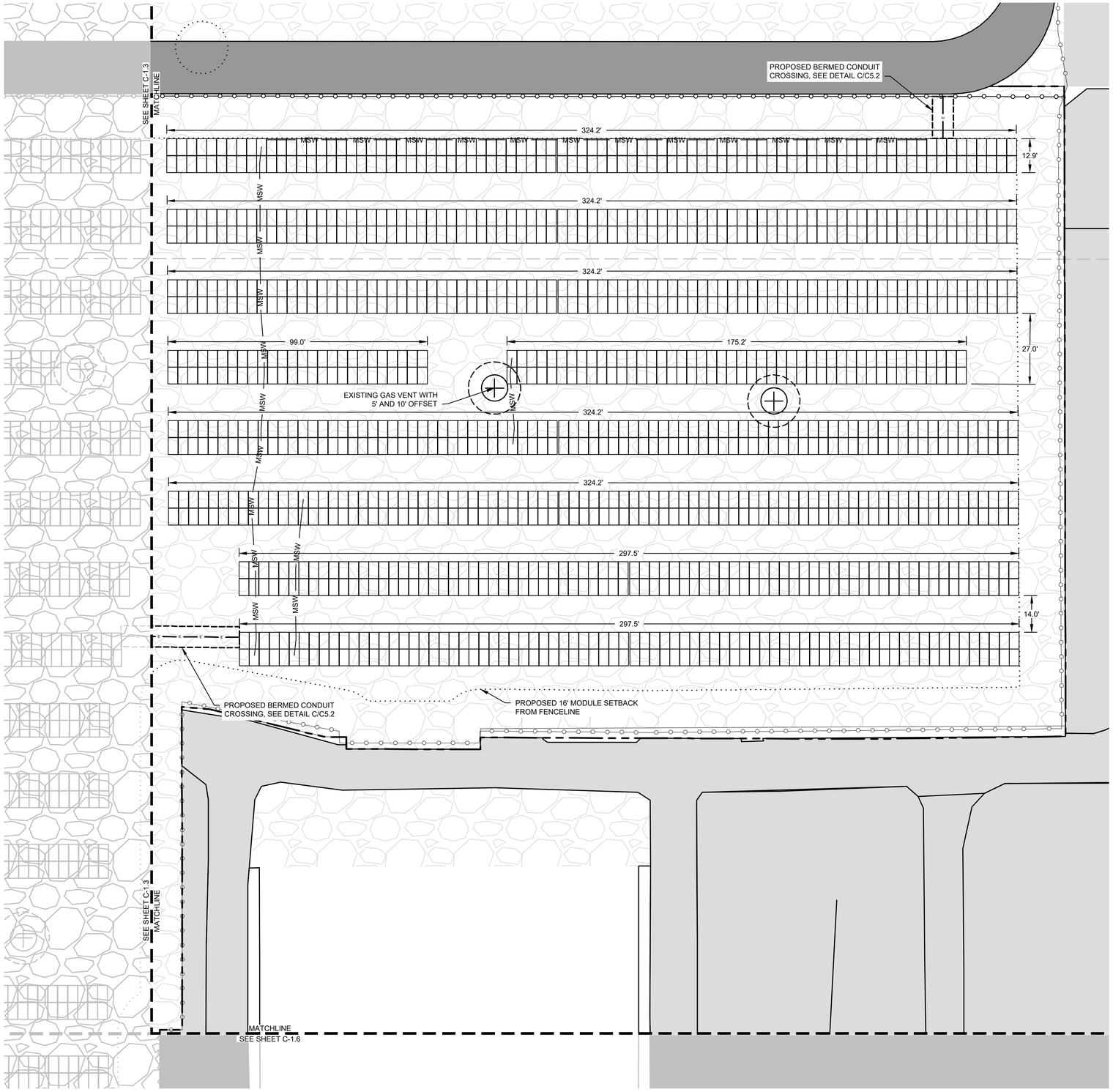
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9/5/2024

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9/5/2023	DESIGNED BY: TSB, JAT	
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AS SHOWN	APPROVED BY: JSC	DRAWING: C-1.3



ARRAY DIMENSIONS - AREA 3

SCALE: 1"= 20'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING/PROPOSED FENCE
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED SHALLOW TRENCHING
- EXISTING/PROPOSED EXTRACTION WELL PIPING
- EXISTING UNDERDRAIN
- EXISTING STORMWATER LINE
- PROPOSED MESSENGER WIRE LOCATION
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED STRING INVERTER
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY DIMENSIONS - AREA 3

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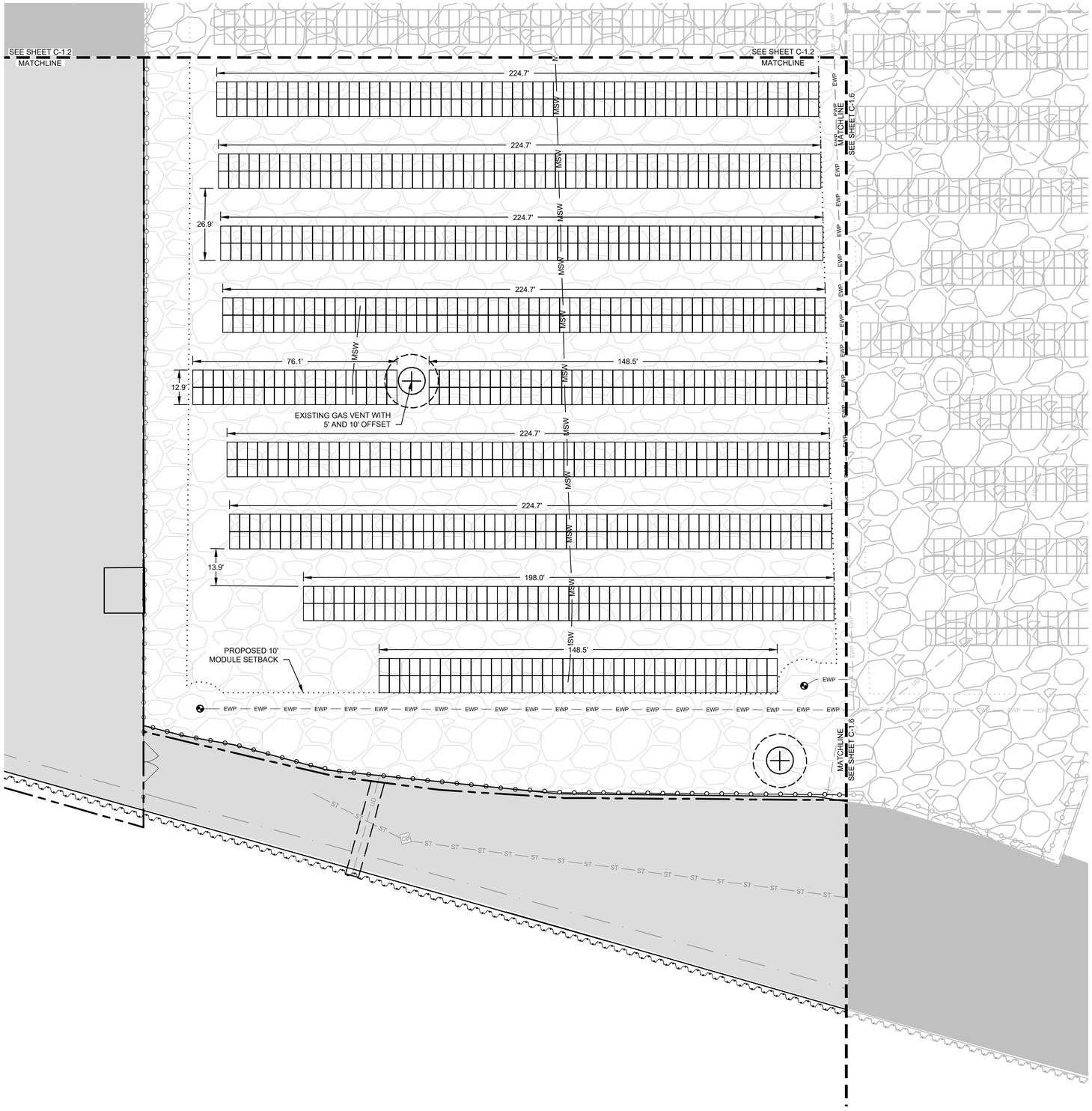
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		APPROVED BY: JSC	
C&A JOB#	5566.03	DRAWING:	C-1.4



ARRAY DIMENSIONS - AREA 4
SCALE: 1"= 20'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING/PROPOSED FENCE
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED SHALLOW TRENCHING
- EXISTING/PROPOSED EXTRACTION WELL PIPING
- EXISTING UNDERDRAIN
- EXISTING STORMWATER LINE
- PROPOSED MESSENGER WIRE LOCATION
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED STRING INVERTER
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
1	NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY DIMENSIONS - AREA 4

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South Bend, IN 46637

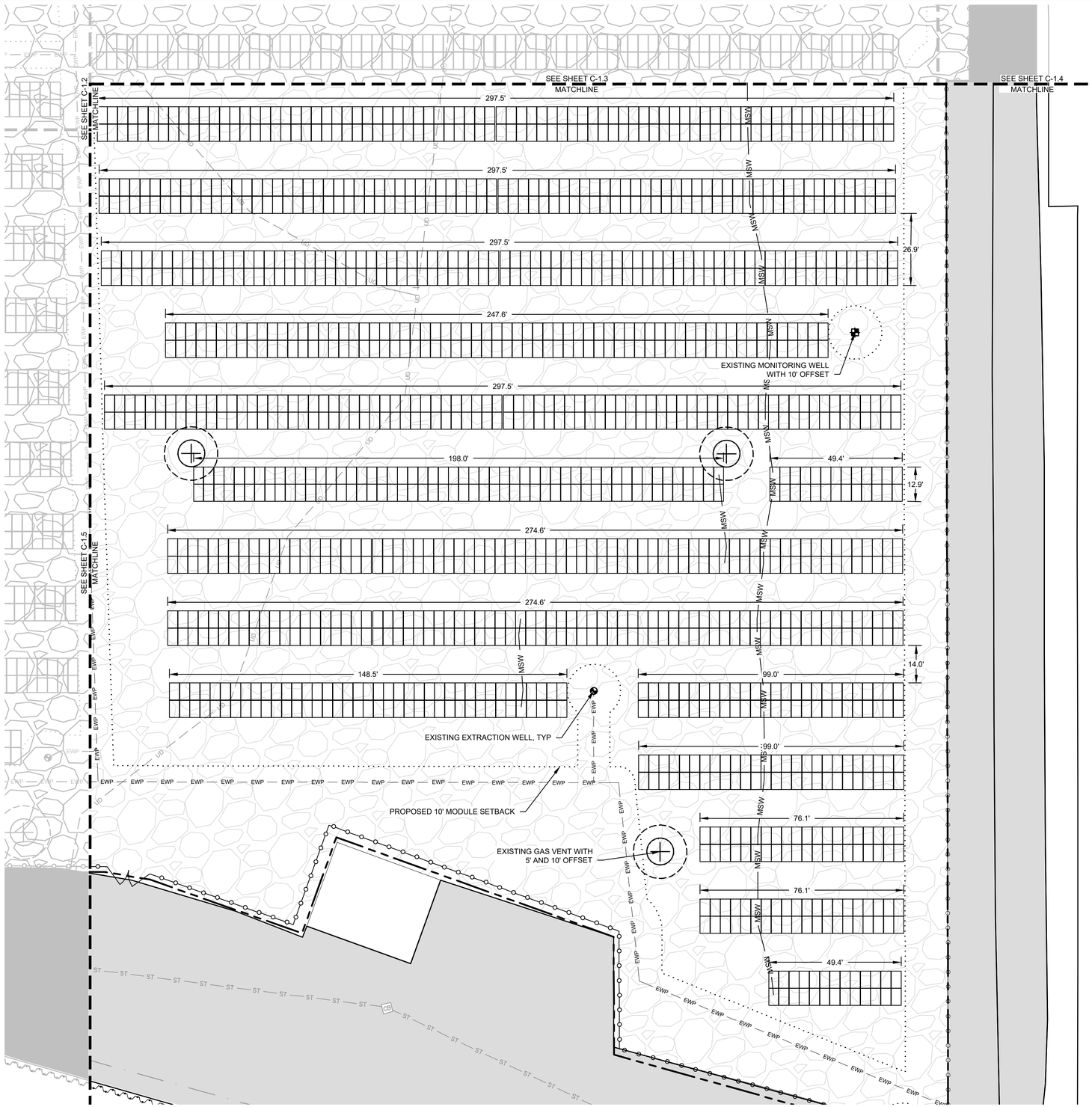
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		APPROVED BY: JSC	DRAWING: C-1.5



ARRAY DIMENSIONS - AREA 5

SCALE: 1"= 20'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING/PROPOSED FENCE
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED SHALLOW TRENCHING
- EXISTING/PROPOSED EXTRACTION WELL PIPING
- EXISTING UNDERDRAIN
- EXISTING STORMWATER LINE
- PROPOSED MESSENGER WIRE LOCATION
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
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- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED STRING INVERTER
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY DIMENSIONS - AREA 5

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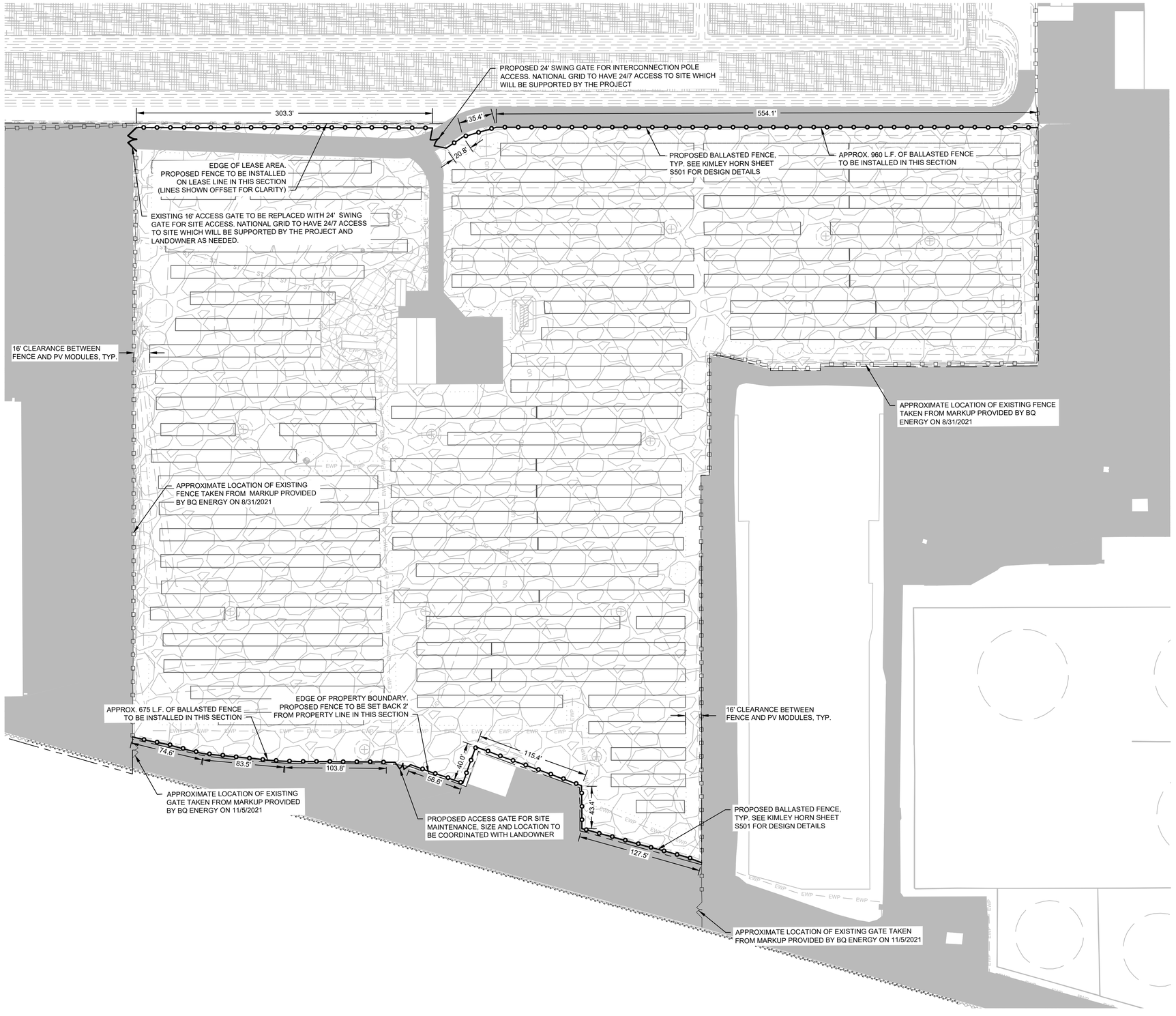
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3/22/2024

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FENCE DIMENSIONS

SCALE: 1"= 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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LEGEND

- EXISTING LEASE LINE
- EXISTING/PROPOSED FENCE
- EXISTING/PROPOSED ACCESS GATE

REV #	DESCRIPTION	DATE	BY
1	NOTES UPDATE	3/22/24	ESA

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CITY OF BUFFALO — ERIE COUNTY, NY

FENCE DIMENSIONS

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19890 State Line Road
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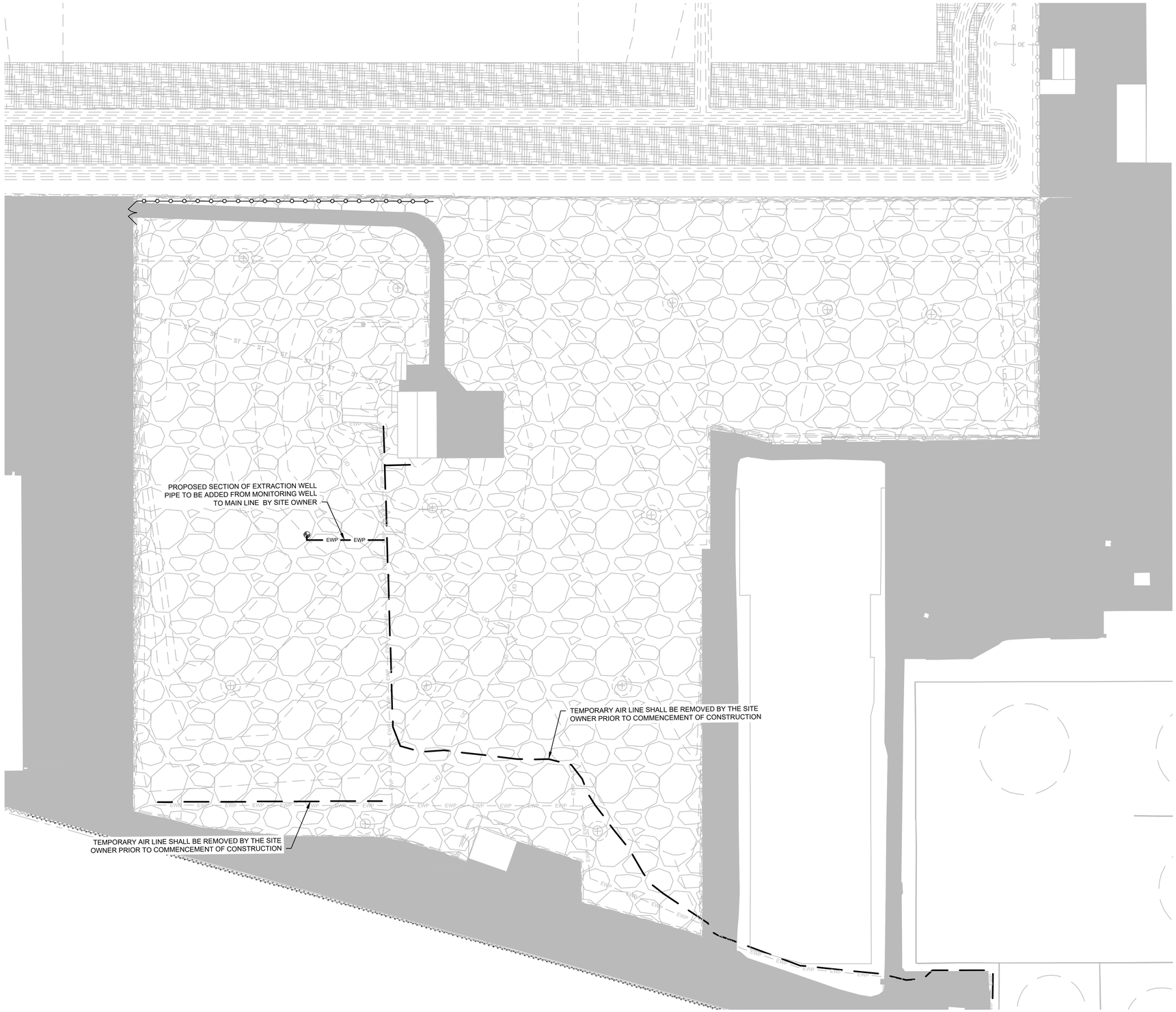
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3/22/2024

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SITE PREPARATION PLAN

SCALE: 1"= 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING TEMPORARY AIR LINE
- EWP — EWP — EXISTING/PROPOSED EXTRACTION WELL PIPE

REV #	DESCRIPTION	DATE	BY
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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SITE PREPARATION PLAN

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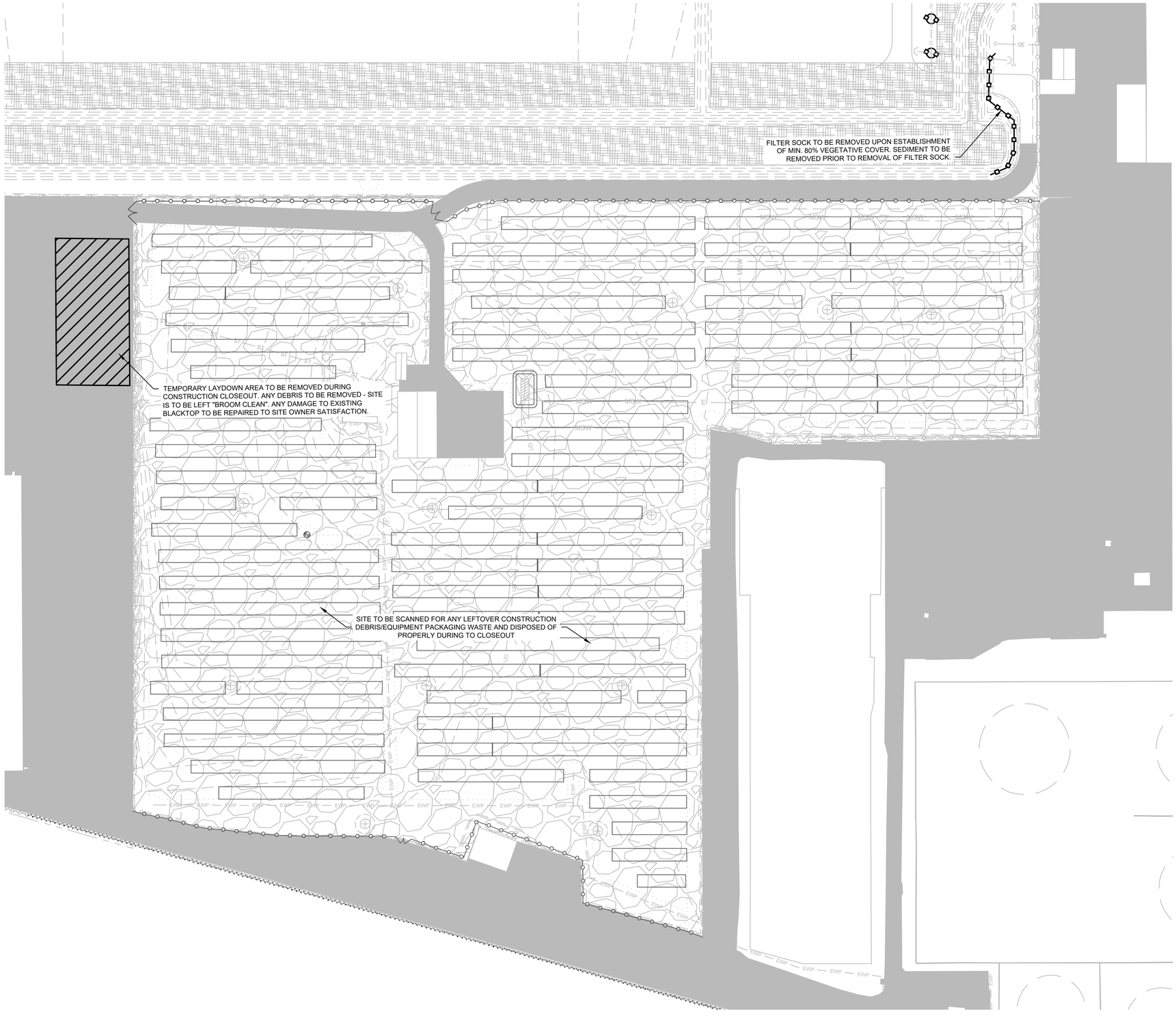
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		APPROVED BY: JSC	



SITE RESTORATION PLAN

SCALE: 1"= 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

NAD83 NY-WEST

TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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LEGEND

COMPOSITE FILTER SOCK

TEMPORARY LAYDOWN AREA

NOTES:

1. CONCRETE WASHOUT LOCATED AT "45 ORLANDO STREET, BUFFALO, NY" TO BE REMOVED FROM SITE PER NOTES IN DETAIL A/C-5.0 UPON COMPLETION OF ALL CONCRETE PLACEMENT.

REV #	DESCRIPTION	DATE	BY
1	NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SITE RESTORATION PLAN

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South Bend, IN 46637

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4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
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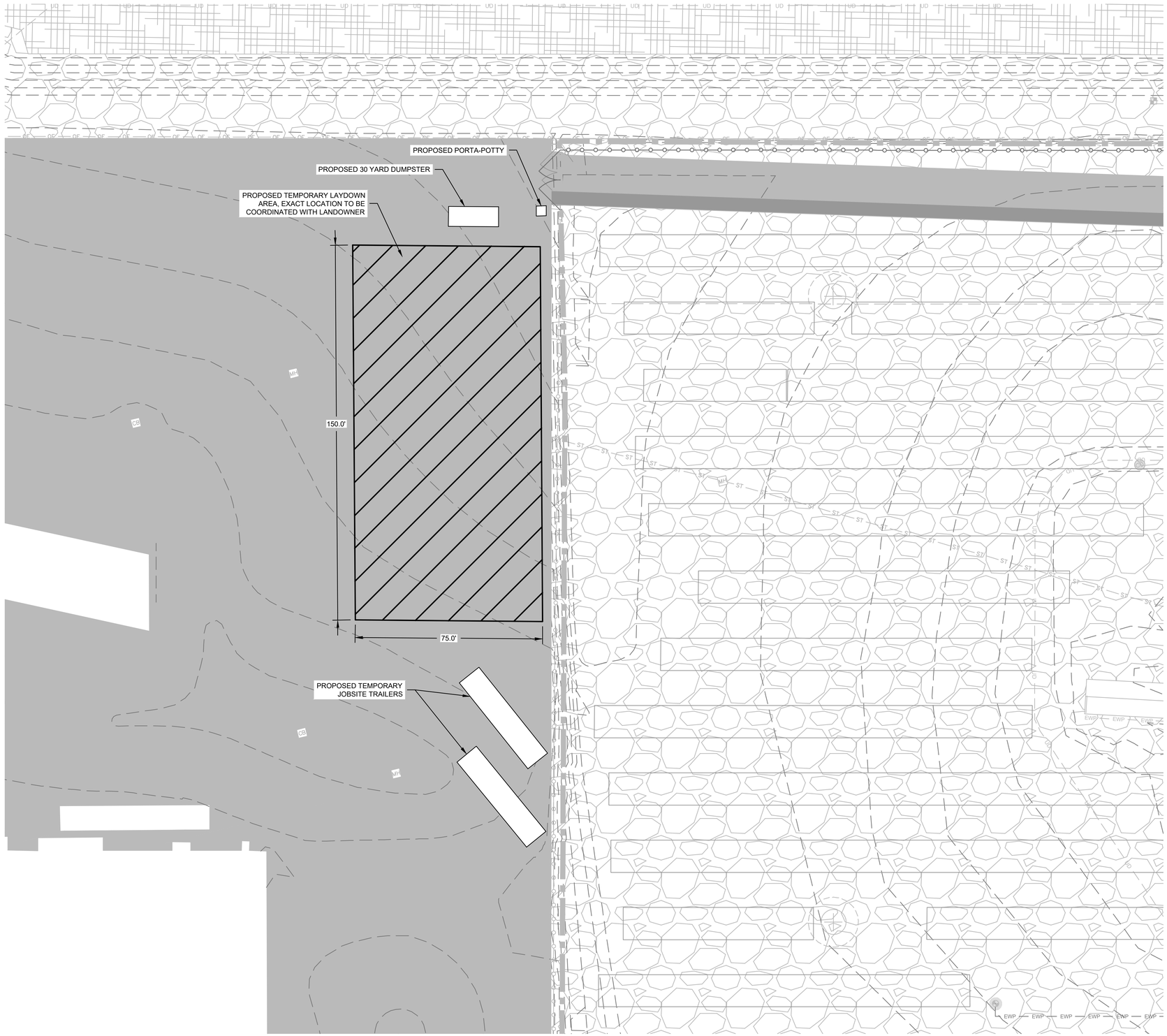
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APPROVED BY:	JSC
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DRAWING:	C-1.9

N:\WORK\5566.02 Elk Street\DWG\5566.02 SITE - CIVIL.dwg



PROPOSED LAYDOWN YARD DESIGN

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
2. EXISTING MONITORING WELL LOCATIONS TAKEN FROM GPS COORDINATES PROVIDED BY LABELLA ASSOCIATES, P.C. THROUGH BQ ENERGY ON JANUARY 12, 2022, AND APPROXIMATED FROM PDF TITLED "GROUNDWATER CONTOURS FIGURE 4" BY LABELLA ASSOCIATES, P.C. DATED MAY 2021.
3. CAB DESIGN AND LOCATION OF PV MODULES TAKEN FROM A REVISED TERRASMART DESIGN PROVIDED TO C&A IN CAD FORMAT ON 03/13/2024. CAB DESIGN LOCATION AND PV ARRAY DIMENSIONS ARE FOR REFERENCE ONLY AND ARE BASED ON THESE CAD FILES. REFER TO TERRASMART DESIGN DRAWINGS FOR EXACT DIMENSIONS.
4. 10 FOOT OFFSET FROM GAS VENTS FOR COMBINER BOXES, INVERTERS AND JUNCTIONS OTHER THAN PV SOURCE STRINGS. 5 FOOT OFFSETS FROM GAS VENTS FOR MODULES.
5. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION, AND MAY BE CHANGED BY THE UTILITY AT ANY TIME IN THE FUTURE.

LEGEND

- PROPOSED TEMPORARY CONSTRUCTION FACILITY
- PROPOSED TEMPORARY LAYDOWN AREA

REV #	DESCRIPTION	DATE	BY
1	NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

PROPOSED LAYDOWN
YARD DESIGN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534
www.crawfordandassociates.com
tel: (518) 828-2700
fax: (518) 828-2723

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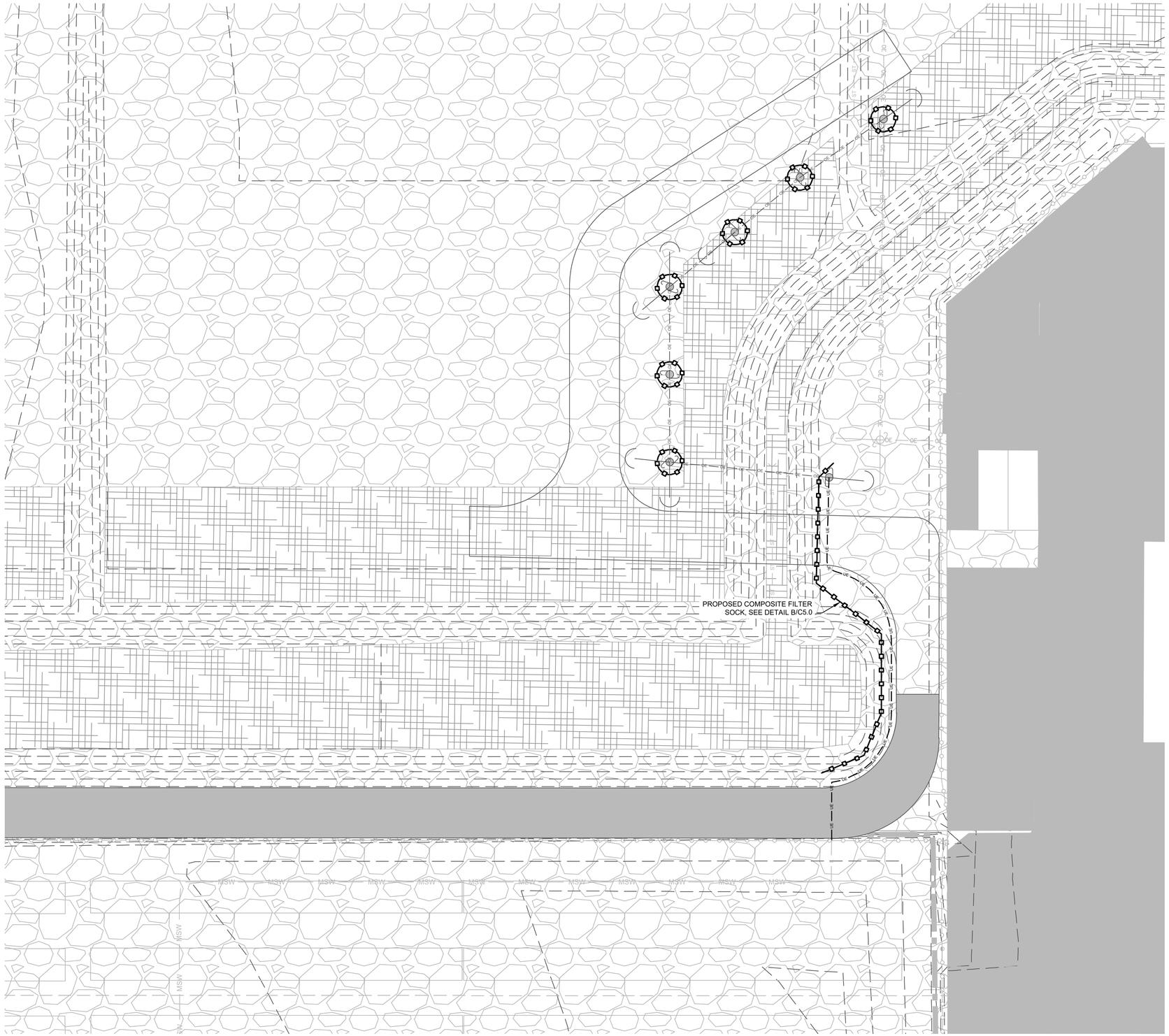
STATE OF NEW YORK — JENNIFER SUZANNE CONKLIN — 110566 — LICENSED PROFESSIONAL ENGINEER

3/22/2024

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

DATE	9/5/2023
SCALE	AS SHOWN
DRAWN BY:	TSB, JAT, ESA
DESIGNED BY:	TSB, JAT
CHECKED BY:	TSB, JSC
APPROVED BY:	JSC
C&A JOB#	5566.03
DRAWING:	C-1.10

H:\WORK\5566.02 Elk Street\DWG\5566.02 SITE - CIVIL.dwg



TEMPORARY EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"= 20'

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
2. EXISTING MONITORING WELL LOCATIONS TAKEN FROM GPS COORDINATES PROVIDED BY LABELLA ASSOCIATES, P.C. THROUGH BQ ENERGY ON JANUARY 12, 2022, AND APPROXIMATED FROM PDF TITLED "GROUNDWATER CONTOURS FIGURE 4" BY LABELLA ASSOCIATES, P.C. DATED MAY 2021.
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4. 10 FOOT OFFSET FROM GAS VENTS FOR COMBINER BOXES, INVERTERS AND JUNCTIONS OTHER THAN PV SOURCE STRINGS. 5 FOOT OFFSETS FROM GAS VENTS FOR MODULES.
5. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION, AND MAY BE CHANGED BY THE UTILITY AT ANY TIME IN THE FUTURE.

LEGEND

- 586.5 — EXISTING CONTOUR .5' INTERVAL
- 585 — EXISTING CONTOUR 5' INTERVAL
- PROPOSED COMPOSITE FILTER SOCK
- UE — UE — UE — PROPOSED UNDERGROUND ELECTRIC
- EXISTING STORMWATER BASIN

NOTES:
1. SEE DETAIL A/C-5.0 FOR CONCRETE WASHOUT SPECIFICATIONS.
2. CONCRETE WASHOUT TO BE LOCATED ON ADJACENT PROPERTY LOCATED AT "45 ORLANDO STREET, BUFFALO, NY."
3. EXACT LOCATION OF CONCRETE WASHOUT ON ORLANDO STREET PROPERTY TO BE COORDINATED WITH LANDOWNER PRIOR TO CONSTRUCTION.

REV #	DESCRIPTION	DATE	BY
1	NOTES UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

TEMPORARY EROSION &
SEDIMENT CONTROL PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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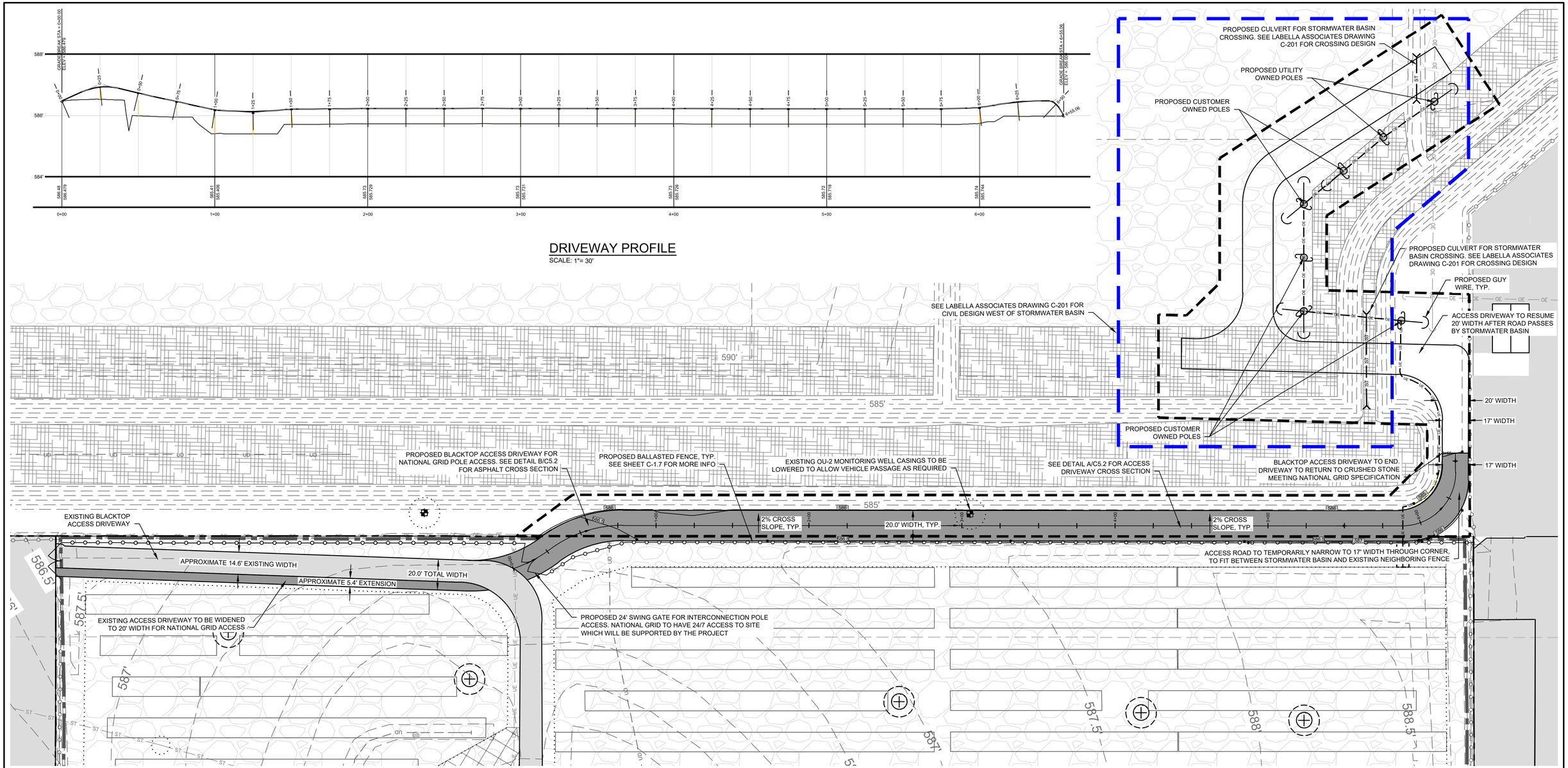
STATE OF NEW YORK · JENNIFER SUZANNE CROUNSE · LICENSED PROFESSIONAL ENGINEER · 120556
5/22/2024

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

DATE	DRAWN BY: TSB, JAT, ESA	H:\WORK\5566.02 Elk Street\DWG\5566.02 SITE - CIVIL.dwg
9/5/2023	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: JSC	DRAWING: C-1.11

DRIVEWAY PROFILE

SCALE: 1"= 30'



DRIVEWAY DESIGN

SCALE: 1"= 30'

LEGEND

- EXISTING CONTOUR .5' INTERVAL (586.5)
- EXISTING CONTOUR 5' INTERVAL (585)
- EXISTING LEASE LINE
- EXISTING/PROPOSED ROAD EDGE
- EXISTING/PROPOSED FENCE
- EXISTING STORMWATER LINE (ST)
- EXISTING/PROPOSED OVERHEAD ELECTRIC (OE)
- EXISTING UNDERGROUND ELECTRIC (UE)
- PROPOSED UNDERGROUND ELECTRIC (UE)
- EXISTING/PROPOSED EXTRACTION WELL PIPE (EWP)
- EXISTING UNDERDRAIN (UD)
- EXTENT OF GSL LINER/EXISTING UNDERDRAIN
- PROPOSED CULVERT FOR STORMWATER CROSSING
- PROPOSED NATIONAL GRID ACCESS AREA
- PROPOSED LABELLA CIVIL DESIGN BOUNDARY
- APPROXIMATE EXISTING UTILITY EASEMENT
- EXISTING PAVEMENT HATCH
- PROPOSED PAVEMENT HATCH
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING STORMWATER BASIN
- EXISTING CRUSHED STONE CAP MATERIAL

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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3. PV MODULE LOCATIONS ARE APPROXIMATE. REFER TO RACKING MANUFACTURER DRAWINGS FOR EXACT DIMENSIONS.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

STATE OF NEW YORK · JAMES SUZANNE CONROD · 120556 · LICENSED PROFESSIONAL ENGINEER

5/9/2024

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REV #	DESCRIPTION	DATE	BY

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

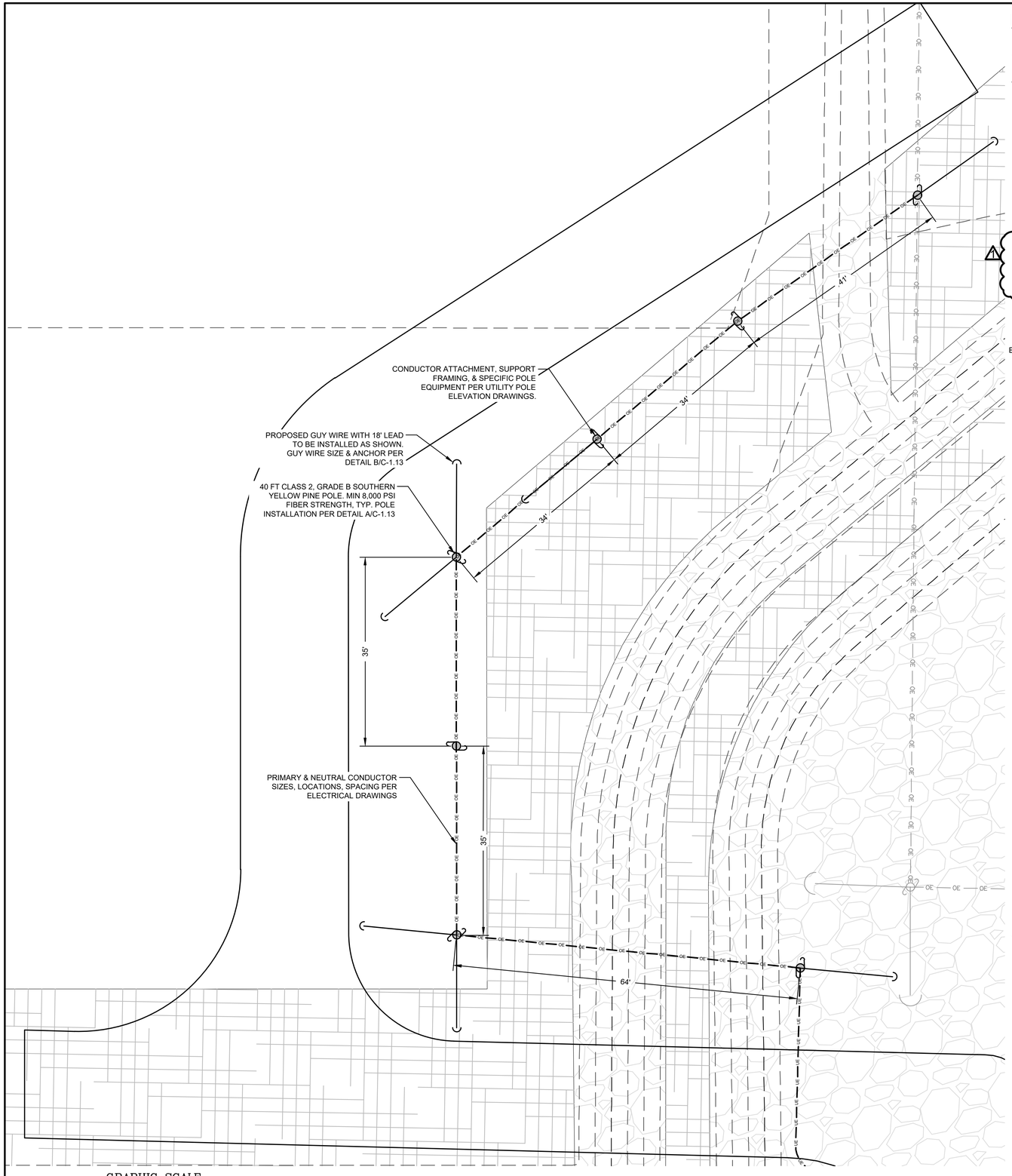
DRIVEWAY DESIGN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
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DATE	DRAWN BY: TSB, JAT, ESA	H:\WORK\5566.02 Elk Street\DWG\5566.02 SITE – CIVIL.dwg
9/5/2023	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB# / DRAWING:
AS SHOWN	APPROVED BY: JSC	5566.03 / C-1.12

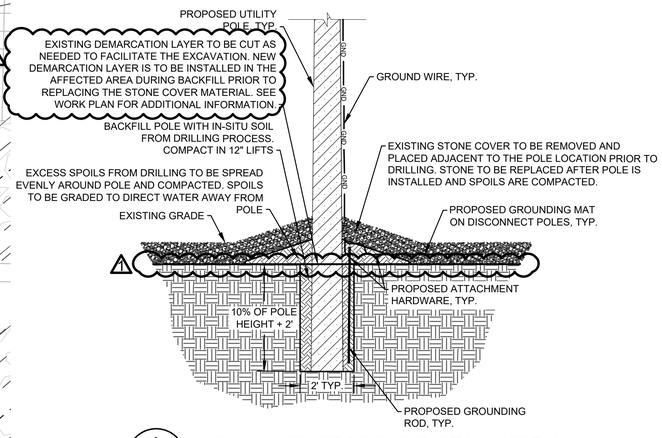


POLE SPECIFICATIONS

SCALE: 1"= 10'

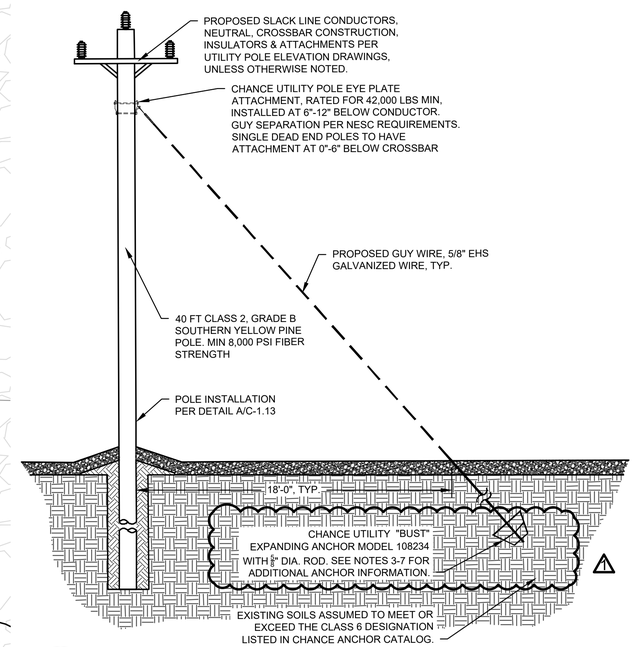
LEGEND

- 586.5 — EXISTING CONTOUR .5' INTERVAL
- 585 — EXISTING CONTOUR 5' INTERVAL
- OE — EXISTING/PROPOSED OVERHEAD ELECTRIC
- UE — PROPOSED SHALLOW TRENCHING
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- EXISTING CRUSHED STONE CAP MATERIAL
- EXISTING STORMWATER BASIN



A C1.13 TYPICAL UTILITY POLE INSTALLATION

N.T.S.



B C1.13 TYPICAL GUY WIRE INSTALLATION

N.T.S.

GUY WIRE INSTALLATION NOTES:

1. ALL CUSTOMER OWNED POLES/GUYS SHOWN ON UTILITY POLE LAYOUT PLAN TO BE INSTALLED PER THIS DETAIL.
2. NATIONAL GRID OWNED POLES TO BE DESIGNED BY OTHERS.
3. ANCHOR TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
4. ANCHOR TO BE INSTALLED TO A MINIMUM VERTICAL DEPTH OF 6'.
5. INSTALLATION OF ANCHOR NOT TO EXCEED 5° OF ALIGNMENT.
6. ANCHOR TO BE INSTALLED IN RELATIVELY DRY AND SOLID SOILS. IF GROUND WATER OR SATURATED SOILS ARE ENCOUNTERED THE ENGINEER MUST BE NOTIFIED AND ANCHOR SELECTION MAY NEED TO BE REVISED ACCORDINGLY.
7. BACKFILL TO BE EXCEPTIONALLY AND THOROUGHLY COMPACTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

DRAWING NOTES:

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Crossarm Specification Table				
Material	Length, ft	Type	Dimensions, in.	Species or Model Number
Wood	8	Double	3.75 x 4.75	DF

Sag Chart: Waxwing-266.8 ACSR Conductor- Slack			
Span, ft	Temperature	Sag	Horizontal Tension
35-45	0 °F	1' 5"	32 lbf
	10 °F	1' 5"	32 lbf
	20 °F	1' 6"	32 lbf
	30 °F	1' 6"	31 lbf
	40 °F	1' 6"	31 lbf
	50 °F	1' 6"	31 lbf
	60 °F	1' 6"	31 lbf
	70 °F	1' 6"	30 lbf
	80 °F	1' 7"	30 lbf
	90 °F	1' 7"	30 lbf
60-70	0 °F	1' 2"	142 lbf
	10 °F	1' 3"	134 lbf
	20 °F	1' 4"	128 lbf
	30 °F	1' 4"	122 lbf
	40 °F	1' 5"	117 lbf
	50 °F	1' 6"	113 lbf
	60 °F	1' 6"	109 lbf
	70 °F	1' 7"	105 lbf
	80 °F	1' 8"	102 lbf
	90 °F	1' 8"	99 lbf

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

STATE OF NEW YORK · ANDREW PAUL AUSTIN · 084164 · LICENSED PROFESSIONAL ENGINEER
3/22/2024

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REV #	DESCRIPTION	DATE	BY
1	UPDATES PER NATIONAL GRID/DEC COMMENTS	3/22/24	ESA

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

POLE SPECIFICATIONS & INSTALLATION DETAILS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
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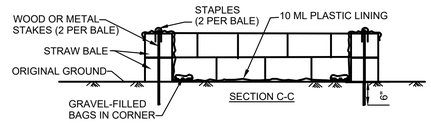
DATE	DRAWN BY: AJB	H:\WORK\5566.02 Elk Street\DWG\5566.02 SITE – POLES.dwg
9/5/2023	DESIGNED BY: AJB	C&A JOB# 5566.03
SCALE AS SHOWN	CHECKED BY: AJB	DRAWING: C–1.13
	APPROVED BY: APA	

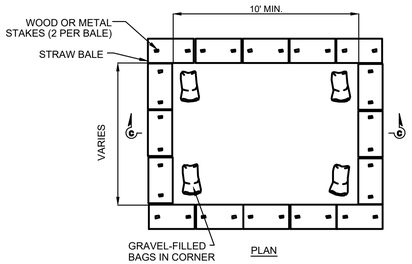
EROSION & SEDIMENT CONTROL GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. (REFERRED TO IN REMAINING TEXT AS "THE NEW YORK GUIDELINES".)
2. THE SEDIMENT MEASURES DETAILED ON THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IN PLACE PRIOR TO CONSTRUCTION STARTUP. ONCE MEASURES ARE IN PLACE, ALL MEASURES SHALL BE PROPERLY MAINTAINED AND/OR REPLACED AS NECESSARY, AND THEN REMOVED FROM THE SITE BY THE CONTRACTOR ONCE SITE IS STABILIZED.
3. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR UNTIL THE FINAL SURFACE TREATMENTS ARE INSTALLED AND THE VEGETATED AREAS HAVE BEEN STABILIZED WITH AT LEAST 80% VEGETATIVE COVER. THE PROPERTY OWNER WILL ASSUME RESPONSIBILITY FOR MAINTAINING THE EROSION AND SEDIMENT SYSTEM(S) THEREAFTER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES ONCE THE CONSTRUCTION PHASE HAS BEEN STABILIZED AND FUNCTIONING PROPERLY AS ACCEPTED BY THE ENGINEER.
5. THE CITY OF BUFFALO, NYSDEC, NYSDEP, OR THE SITE ENGINEER MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE THE POTENTIAL FOR ONSITE OR OFFSITE EROSION PROBLEMS THAT MAY OCCUR DURING CONSTRUCTION.
6. COPIES OF THE SOIL EROSION AND SEDIMENT CONTROL PLANS MUST BE MAINTAINED ON SITE UNTIL NOTICE OF TERMINATION HAS BEEN FILED.

MAINTENANCE PLAN:

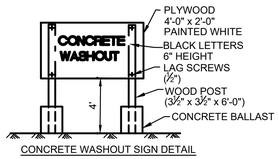
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPERATION AND MAINTENANCE OF THE NEW DEVELOPMENT PROJECT AND PROJECT ACCESS DURING CONSTRUCTION.
2. NO EARTHWORK ACTIVITIES SHALL COMMENCE UNTIL SILT SOCKS HAVE BEEN INSTALLED AS SHOWN ON DRAWINGS.
3. AREAS TO BE LEFT EXPOSED TO EROSION FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED PER THE NEW YORK GUIDELINES.
4. PAVED AREAS SHALL BE KEPT FREE OF SEDIMENT, AND SHALL BE CLEANED PERIODICALLY AS REQUIRED BY CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR IS RESPONSIBLE TO INSPECT AND REPAIR EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT DAMAGE OR SEDIMENTATION.
6. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.







STAPLE DETAIL



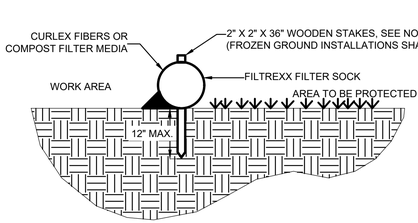
CONCRETE WASHOUT SIGN DETAIL

NOTES:

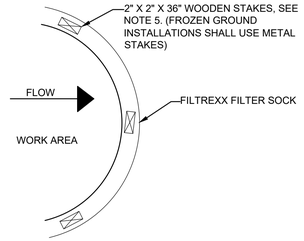
1. TEMPORARY CONCRETE WASHOUT FACILITIES FOR THIS PROJECT SHALL BE LOCATED ON A NEIGHBORING PARCEL, OWNED BY THE SAME LANDOWNER. ADDRESS OF NEIGHBORING PARCEL IS "45 ORLANDO STREET, BUFFALO, NEW YORK. EXACT LOCATION ON ORLANDO STREET PARCEL TO BE COORDINATED WITH LANDOWNER PRIOR TO CONSTRUCTION.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 100 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATER COURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
3. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
4. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. TEMPORARY WASHOUT FACILITIES SHOULD HAVE A TEMPORARY BERMED AREA OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
6. WASHOUT OF CONCRETE TRUCKS SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY.
7. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASH OUT.
8. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF PER SOLID WASTE MANAGEMENT STANDARDS. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
9. TEMPORARY ABOVE GRADE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AS SHOWN IN THIS DETAIL.

A C5.0 CONCRETE WASHOUT DETAIL

SCALE: N.T.S.



SECTION



PLAN

INSTALLATION NOTES:

1. COMPOSITE FILTER SOCKS SHALL BE FILTREXX(R) SILT SOXX (TM) OR APPROVED EQUAL.
2. LAND SURFACE SHOULD BE PREPARED BY MOWING GRASS OR MAKING SOIL OR PAVED SURFACES SMOOTH.
3. COMPOSITE FILTER SOCKS SHALL BE PLACED PERPENDICULAR TO STORM WATER FLOW, ACROSS THE SLOPE, SWALE, DITCH OR CHANNEL.
4. COMPOSITE FILTER SOCKS SHALL BE PLACED ON CONTOURS.
5. ON SOIL AND VEGETATED SURFACES, UNDER SHEET FLOW CONDITIONS, COMPOSITE FILTER SOCKS SHALL BE STAKED ON 10-FT CENTERS. UNDER CONCENTRATED FLOW CONDITIONS COMPOSITE FILTER SOCKS SHALL BE STAKED ON 5-FT CENTERS.
6. STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE COMPOSITE FILTER SOCK AND INSTALLED A MINIMUM OF 8 INCHES AND A MAXIMUM OF 12 INCHES INTO THE EXISTING SOIL, LEAVING A MINIMUM STAKE HEIGHT OF 2 INCHES ABOVE THE COMPOSITE FILTER SOCK.
7. EDGES OF THE COMPOSITE FILTER SOCKS SHALL BE TURNED UPSLOPE TO PREVENT SLOW AROUND THE ENDS OF THE COMPOSITE FILTER SOCKS.

REMOVAL NOTES:

1. UPON REMOVAL OF THE COMPOSITE FILTER SOCK, THE CONTRACTOR SHALL REMOVE ALL SEDIMENT ACCUMULATION PRIOR TO THE REMOVAL OF THE COMPOSITE FILTER SOCK. THE COMPOSITE FILTER SOCKS SHALL BE REMOVED IN THEIR ENTIRETY.
2. THE DISTURBED AREA SHALL BE SEEDED, FERTILIZED, AND MULCHED TO ENSURE THE VEGETATIVE COVER IS FULLY RESTORED.
3. MONITOR THE VEGETATIVE RESTORATION AREA UNTIL EXPOSED AREAS ARE FULLY STABILIZED WITH VEGETATIVE COVER.
4. THE COMPOSITE MATERIAL MAY BE SPREAD OVER THE LANDSCAPE OR INCORPORATED INTO THE SOIL AT THE END OF THE PROJECT, THEREBY INCREASING SOIL QUALITY AND REDUCING WASTE.
5. THE SOCK MESH SHALL BE PROPERLY DISPOSED.

B C5.0 FILTER SOCK DETAIL

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

EROSION & SEDIMENT CONTROL DETAILS

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19890 State Line Road
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4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

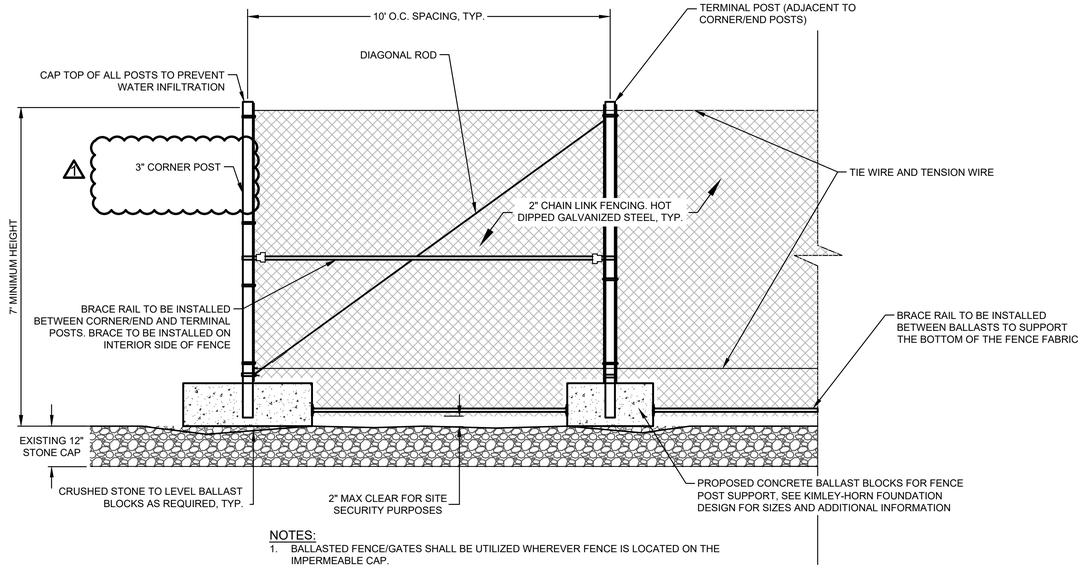
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STATE OF NEW YORK · JENNIFER SUZANNE CRAWFORD · 150555 · LICENSED PROFESSIONAL ENGINEER

9/5/2024

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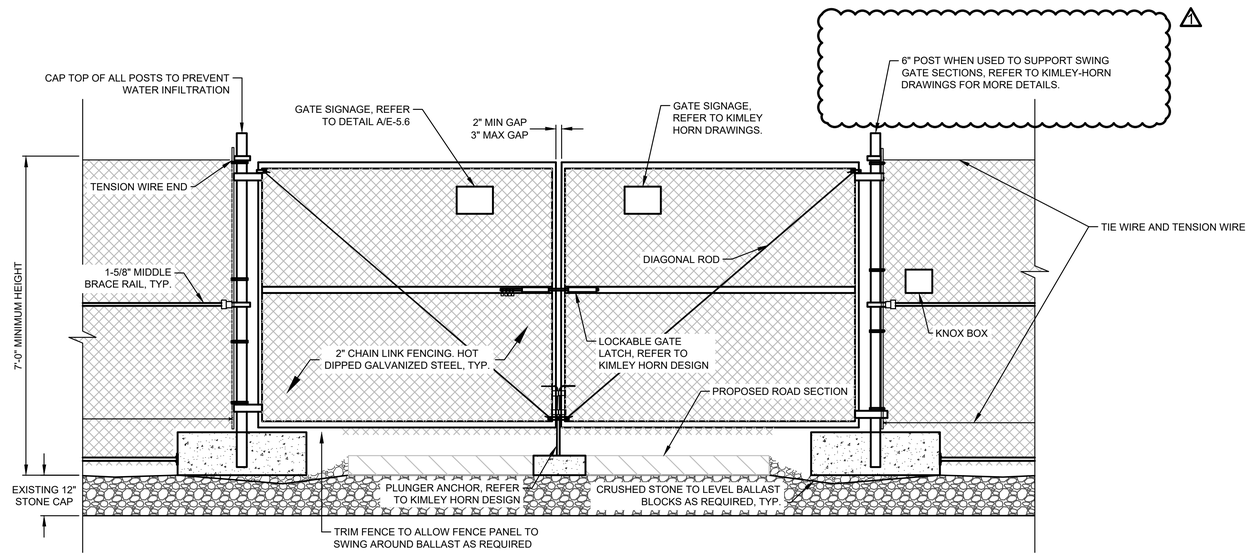
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AS SHOWN	APPROVED BY: JSC	DRAWING: C-5.0



NOTES:
1. BALLASTED FENCE/GATES SHALL BE UTILIZED WHEREVER FENCE IS LOCATED ON THE IMPERMEABLE CAP.
2. CORNER POSTS SHOULD BE DIAGONALLY BRACED FOR GREATER STABILITY.
3. POST SPACING SHOULD BE EQUIDISTANT AND SHOULD NOT EXCEED 10'-0" O.C.
4. FENCING POSTS, RAILS, AND MESH TO BE HOT DIPPED GALVANIZED STEEL.
5. FENCE SHOULD BE A MINIMUM OF 7'-0" HIGH AT ALL LOCATIONS.
6. FENCE TO BE BONDED TO ABOVE GRADE CONDUIT ALL ALL FENCE-CONDUIT CROSSING LOCATIONS
7. REFER TO KIMLEY-HORN DRAWINGS FOR BALLAST DESIGN AND DIMENSIONS.
8. ALL FENCING IS TO BE INSTALLED PER MANUFACTURER'S DESIGN, RECOMMENDATION AND SPECIFICATIONS.

A / C5.1 NO EXCAVATION BALLASTED FENCE DETAIL

SCALE: N.T.S.



NOTES:
1. BALLASTED FENCE/GATES SHALL BE UTILIZED WHEREVER FENCE IS LOCATED ON THE IMPERMEABLE CAP.
2. FENCING POSTS, RAILS, AND MESH TO BE HOT DIPPED GALVANIZED STEEL.
3. FENCE SHOULD BE A MINIMUM OF 7'-0" HIGH AT ALL LOCATIONS.
4. REFER TO KIMLEY-HORN DRAWINGS FOR BALLAST DESIGN AND DIMENSIONS.
5. ALL FENCING IS TO BE INSTALLED PER MANUFACTURER'S DESIGN, RECOMMENDATION AND SPECIFICATIONS.

B / C5.1 BALLASTED DOUBLE SWING GATE DETAIL

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
1	UPDATES TO POST SIZING	3/22/24	ESA

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

FENCE DETAILS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

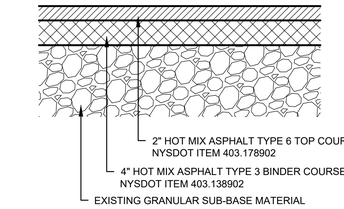
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LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE CRAWFORD — 100556 — STATE OF NEW YORK

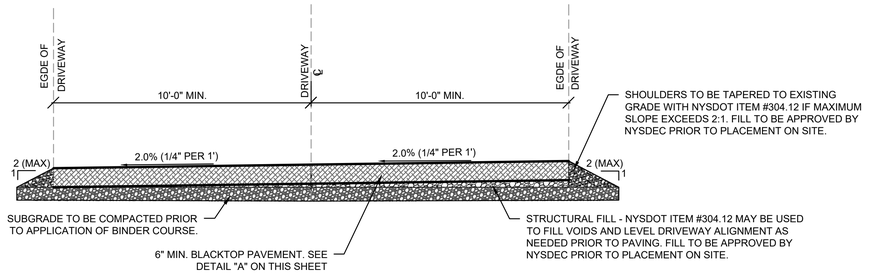
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A / C5.2 TYPICAL BLACKTOP ROADWAY CONSTRUCTION DETAIL

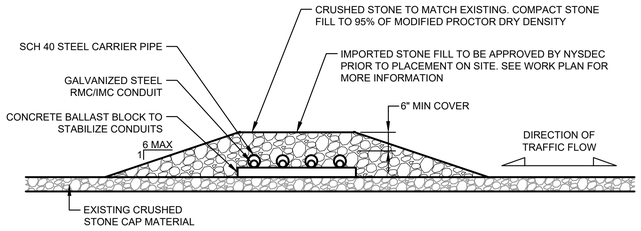
N.T.S.



NOTES:
1. ACCESS DRIVE SHALL BE BUILT ON EXISTING CRUSHED STONE CAP. CAP TO BE COMPACTED PRIOR TO APPLICATION OF BINDER COURSE. COMPACTOR PRESSURE TO BE LESS THAN 10PSI ON CAPPED AREAS.
2. THE ACCESS DRIVE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH OF BLACKTOP PAVEMENT. SEE DETAIL "A" ON THIS SHEET FOR PAVEMENT CROSS SECTION.
3. ACCESS DRIVEWAY TO HAVE A TYPICAL CROSS SLOPE OF 2% TOWARDS THE EXISTING STORMWATER TREATMENT AREA, LOCATED TO THE NORTH SIDE OF THE DRIVEWAY.

B / C5.2 ACCESS DRIVE DETAIL

SCALE: N.T.S.



C / C5.2 BERMED CONDUIT CROSSING

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

DRIVEWAY DETAILS & ELEVATIONS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

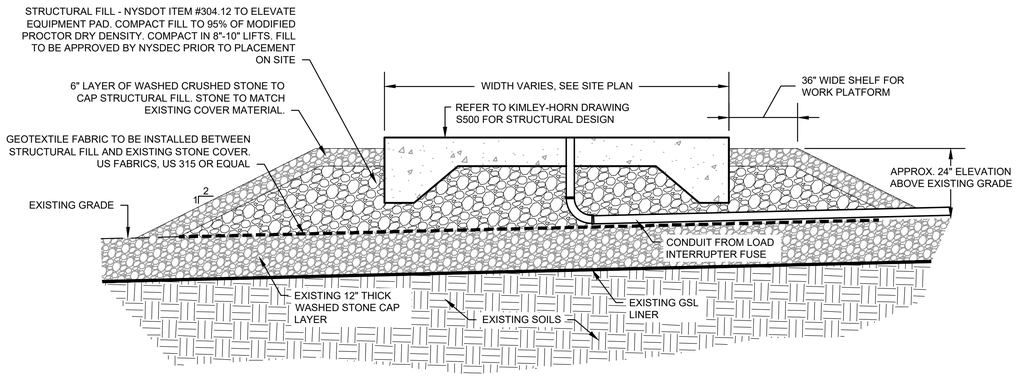
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9/5/2024

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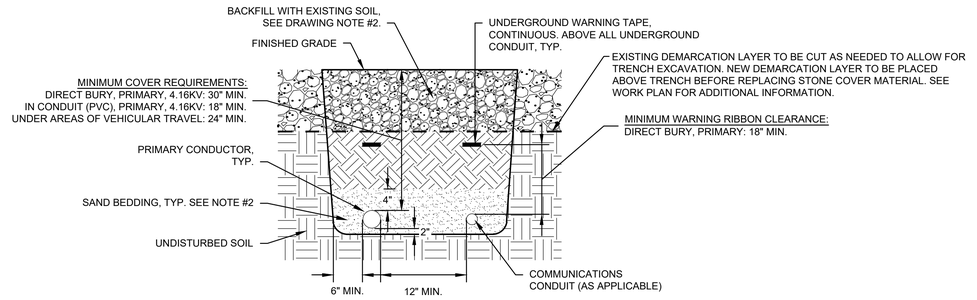
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	APPROVED BY: JSC		



A C5.3 CONCRETE PAD DETAIL

SCALE: N.T.S.

NOTES:
1. EXCAVATION IS NOT TO BE PERFORMED IN THE EXISTING CAP MATERIAL UNLESS SPECIFICALLY NOTED IN THIS DRAWING SET.
2. GEOTEXTILE FABRIC TO BE INSTALLED BETWEEN STRUCTURAL FILL AND EXISTING STONE COVER TO PREVENT TRANSPORT OF FINES FROM FILL INTO EXISTING COVER STONE.
3. REFER TO KIMLEY HORN DRAWING S500 FOR STRUCTURAL DESIGN DETAILS



B C5.3 CONDUIT TRENCH DETAIL OFF EXTENT OF GSL LINER

SCALE: N.T.S.

TRENCHING NOTES:
1. VEHICLE ACTIVITY AND SURFACE LOADING OVER THE BURIED CONDUIT OR CONDUCTORS SHALL NOT EXCEED THEIR RATED CRUSH TEST CAPACITY.
2. BACKFILL MATERIAL SHALL BE SPOILS FROM EXCAVATION, COMPACTED. NATIVE BACKFILL MATERIAL ONLY ACCEPTABLE IF IT CAN PASS THROUGH A 3" SCREEN. SAND BEDDING SHALL BE USED AROUND CONDUCTORS FOR PADDING, TYP.
3. THE NUMBER OF CONDUITS/CIRCUITS SHOWN IS REPRESENTATIVE AND WILL VARY PER THE PLANS AND SCHEDULES.
4. 12" MIN. CLEARANCE SHALL BE MAINTAINED BETWEEN POWER AND DATA WIRING.
5. EDGE OF TRENCH SHALL BE A MIN. OF 3' CLEAR FROM THE EDGE OF EQUIPMENT PAD UNLESS APPROVED BY E.O.R.
6. ALL CONDUIT INSTALLATION TO CONFORM TO NEC TABLE 300.5.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

MISCELLANEOUS CIVIL DETAILS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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9/5/2024

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C&A JOB#	5566.03	
DRAWING:	C-5.3	

DIVISION OF DESIGN RESPONSIBILITY

ENGINEER OF RECORD	SCOPE OF WORK
CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, P.C. 4411 ROUTE 9, SUITE 200 HUDSON, NY 12534 (518) 828-2700	- ELECTRICAL ENGINEER OF RECORD - CIVIL ENGINEER OF RECORD
LABELLA ASSOCIATES, P.C. 300 PEARL STREET, SUITE 130 BUFFALO, NY 14202 (761) 551-6281	- ENVIRONMENTAL PERMITTING ENGINEER - STORMWATER BASIN CROSSING DESIGN ENGINEER OF RECORD
KIMLEY-HORN AND ASSOCIATES, INC. 1 NORTH LEXINGTON AVENUE, SUITE 505 WHITE PLAINS, NY 10601 (216) 273-8327	- BALLSTED FENCE DESIGN ENGINEER OF RECORD - EQUIPMENT PAD DESIGN ENGINEER OF RECORD
TERRASMART, LLC. 6715 STEGER DRIVE CINCINNATI, OH 45237 (513) 242-2051	- STRUCTURAL RACKING ENGINEER OF RECORD - MESSENGER SUPPORTED WIRING DESIGN ENGINEER OF RECORD

IT IS ASSUMED THAT THE FOLLOWING FALL OUTSIDE OF THE SCOPE OF C&A AND ARE TO BE COMPLETED BY OTHERS:
- RACKING DESIGN & STRUCTURAL CALCULATIONS IN ACCORDANCE WITH THE RESPECTIVE PCUP DOCUMENT
- FENCING DESIGN & STRUCTURAL CALCULATIONS IN ACCORDANCE WITH THE RESPECTIVE PCUP DOCUMENT
- GEOTECHNICAL TESTING (TO BE SENT TO C&A BY OTHERS FOR INCORPORATION INTO CIVIL DESIGN)
- CAB MESSENGER WIRING DESIGN (PROVIDED BY OTHERS FOR INCORPORATION INTO ELECTRICAL DESIGN)
- SPECIFICATIONS FOR ALL OTHER MAJOR COMPONENTS INCLUDING BUT NOT LIMITED TO MODULES, INVERTERS, COMMUNICATION/MONITIORING SYSTEMS.

DISTURBANCE TABLE:

Site Feature:	Area per item (SF):	QTY:	Area Total (SF):	Area (Acre):	Disturbance:	existing impervious surface:[2]	Installed over Existing Pervious Surface:
IX Equipment Pad	187	1	187	0.00	Y	Y	N
Utility Poles	1	7	7	0.00	Y	N	Y
Solar Ballasts[1]	36	776	27645	0.63	N	Y	N
Fence Ballasts	5.1	164	836	0.02	Y	Y	N
Trenching	2	187	374	0.01	Y	N	Y
Proposed Driveway	24,700	1	24700	0.57	Y	N	Y
				TOTAL (AC):	0.60	0.66	0.58
						Total Impervious Added (AC):	0.58

[1] BALLAST QUANITY AND GROUND CONTACT AREA FROM TERRASMART RACKING DRAWING RECEIVED ON 7/26/2023.
[2] EXISTING SITE IS ASSUMED TO BE IMPERVIOUS DUE TO IMPERVIOUS GSL LINER AND DRAINAGE SYSTEM BELOW STONE CAP LAYER. ADDING IMPERVIOUS SURFACE ABOVE THE GSL LINER WILL NOT AFFECT INFILTRATION OF STORMWATER

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

CIVIL CALCULATIONS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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9/5/2024

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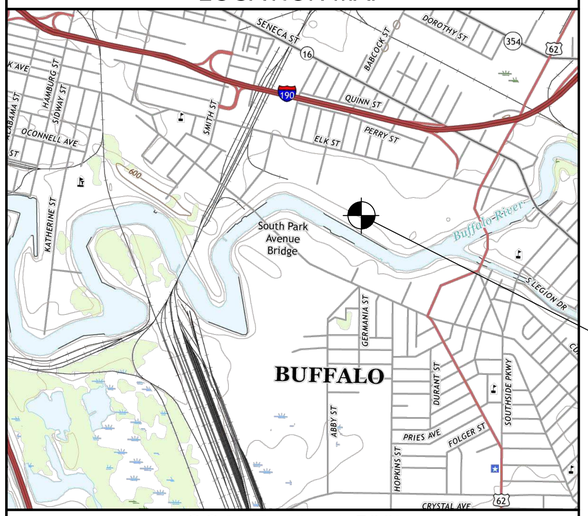
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C&A JOB# 5566.03

DRAWING: C-5.4

LOCATION MAP



SITE LOCATION

SCALE: 1" = 1,500'

ELK STREET
SOLAR DEVELOPMENT PROJECT

SITE ADDRESS: 503 ELK STREET, BUFFALO, NY 14210
TAX ID#: 123.13-1-2.111

PREPARED FOR:

INOVATEUS SOLAR LLC

19890 STATE LINE ROAD
SOUTH BEND, IN 46637

ENGINEER:

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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C&A #: 5566.02
DATE: SEPTEMBER 5, 2023
REVISED: MARCH 22, 2024

JENNIFER SUZANNE CRAWFORD LICENSED PROFESSIONAL ENGINEER 100555 STATE OF NEW YORK
3/22/2024

DRAWINGS:

T-0.0	TITLE SHEET
T-0.1	CONSTRUCTION NOTES - SHEET 1
T-0.2	CONSTRUCTION NOTES - SHEET 2
T-0.3	CONSTRUCTION ACCESS & STAGING
E-1.0	EXISTING CONDITIONS SITE MAP
E-1.1	PROPOSED ELECTRICAL SITE PLAN
E-1.2	TRENCHING PLAN
E-1.3	INVERTER ZONES
E-1.4	GROUNDING PLAN
E-1.5	AC CABLE PLAN
E-1.6	DC CABLE PLAN
E-1.7	COMMUNICATIONS LAYOUT
E-1.8	ARRAY MAPPING PLAN
E-1.9	COMBINER BOX ZONES – AREA 1
E-1.10	COMBINER BOX ZONES – AREA 2
E-1.11	COMBINER BOX ZONES – AREA 3
E-1.12	COMBINER BOX ZONES – AREA 4
E-1.13	COMBINER BOX ZONES – AREA 5
E-1.14	INTERCONNECT PLAN
E-1.15	EQUIPMENT PAD LAYOUT
E-2.0	EQUIPMENT ELEVATIONS
E-2.1	UTILITY POLE ELEVATIONS - SHEET 1
E-2.2	UTILITY POLE ELEVATIONS - SHEET 2
E-2.3	UTILITY POLE ELEVATIONS - SHEET 3
E-2.4	UTILITY POLE ELEVATIONS - SHEET 4
E-2.5	UTILITY POLE ELEVATIONS - SHEET 5
E-2.6	UTILITY POLE ELEVATIONS - SHEET 6
E-2.7	UTILITY POLE ELEVATIONS - SHEET 7
E-5.0	GROUNDING DETAILS
E-5.1	GROUNDING RING DETAILS
E-5.2	WIRE MANAGEMENT DETAILS
E-5.3	MISCELLANEOUS ELECTRICAL DETAILS -SHEET 1
E-5.4	MISCELLANEOUS ELECTRICAL DETAILS -SHEET 2
E-5.5	SYSTEM SIGNAGE AND LABELING -SHEET 1
E-5.6	SYSTEM SIGNAGE AND LABELING -SHEET 2
E-5.7	SYSTEM SIGNAGE AND LABELING -SHEET 3
E-6.0	INTERCONNECTION SINGLE LINE DIAGRAM
E-6.1	SYSTEM THREE LINE DIAGRAM
E-6.2	INVERTER WIRING DIAGRAM
E-6.3	GROUNDING DIAGRAM
E-6.4	AUXILIARY POWER DIAGRAM
E-6.5	DC CONDUCTOR SCHEDULE
E-6.6	AC CONDUCTOR SCHEDULE
E-6.7	AUXILIARY POWER SCHEDULE
E-6.8	AC CONTROL SCHEMATIC
E-7.0	MODULE DATASHEET
E-7.1	INVERTER DATASHEET

STAKEHOLDERS:
EPC: INOVATEUS SOLAR, LLC
SURVEYOR: AMEC E&E P.C.
CIVIL & ELECTRICAL ENGINEER(S) OF RECORD: CRAWFORD & ASSOCIATES ENGINEERING & LAN
SURVEYING, P.C.
STRUCTURAL ENGINEER(S) OF RECORD: KIMLEY-HORN AND ASSOCIATES, INC., TERRASMART, L
PERMIT ENGINEER: LABELLA ASSOCIATES, P.C.
INTERCONNECTION DESIGN: JEM ENGINEERING SERVICES, LLC
SITE OWNER: ELK STREET COMMERCE PARK, LLC (ESCP)
POWER BUYER: COMMUNITY DISTRIBUTED GENERATION
UTILITY: NATIONAL GRID
PROJECT OWNER: ELK STREET SOLAR, LLC., A SUBSIDIARY OF BQ ENERGY

BROWNFIELD NOTES

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE CHANGE OF USE LETTER - WORK PLAN: 503, 623, 625, 635 ELK STREET, BUFFALO, NY (NYSDEC SITES #C915201D AND #C915201B) PREPARED BY LABELLA ASSOCIATES, P.C. ⚠
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO INOVATEUS SOLAR A SITE-SPECIFIC HEALTH AND SAFETY PLAN AT LEAST TWO WEEKS PRIOR TO START OF CONSTRUCTION.
3. ACCESS TO EXISTING EXTRACTION WELLS MUST BE MAINTAINED ON SITE. NO STRUCTURES SHALL BE INSTALLED WITHIN A TEN (10) FOOT CLEARANCE FROM EXTRACTION WELLS.
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT THE PROPOSED CONSTRUCTION WORK ASSOCIATED WITH THE SOLAR PROJECT SHALL NOT IN ANY WAY DAMAGE THE IMPERMEABLE GSL LINER, EXTRACTION WELLS, EXTRACTION WELL PIPING, OR OTHER SITE FEATURES INSTALLED AS PART OF THE SITE REMEDIATION PROJECT. IF DAMAGE OCCURS TO ANY OF THE ABOVE-LISTED COMPONENTS, THE CONTRACTOR SHALL NOTIFY INOVATEUS SOLAR IMMEDIATELY. A WRITTEN PLAN FOR REPAIR OF THE COMPONENTS SHALL BE PREPARED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION AND ANY REPAIR WORK SHALL BE PROMPTLY COMPLETED. ESCP RESERVES THE RIGHT TO REVIEW AND APPROVE ANY WRITTEN PLANS FOR REPAIR OF COMPONENTS. NOTE THAT ALL CORRESPONDENCE WITH NYSDEC SHALL BE THROUGH ESCP. NEITHER INOVATEUS SOLAR OR THE CONTRACTOR(S) SHALL COMMUNICATE DIRECTLY WITH NYSDEC WITHOUT ADVANCE WRITTEN AUTHORIZATION FROM ESCP.
5. MINIMIZE WORK AND VEHICLE TRAVEL IN 10' SET-BACK ZONES FROM EXTRACTION WELLS TO PREVENT ACCIDENTAL DAMAGE TO THESE STRUCTURES. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, ALL MONITORING WELLS, AND OTHER EXISTING ABOVE-GROUND STRUCTURES OF THE PROJECT SITE SHALL BE FLAGGED FOR VISIBILITY AND PROTECTIVE BARRIERS SHALL BE PLACED AROUND SUCH STRUCTURES TO PREVENT DAMAGE BY VEHICLES ACCESSING THE CAP AREA.
6. CONTACT DIG-SAFE NEW YORK (1-800-962-7962) PRIOR TO EXCAVATING AS REQUIRED BY NYCRR. ALL OPERATORS PERFORMING DIGGING OPERATIONS SHALL BE CERTIFIED BY DSNY CERTIFIED EXCAVATOR PROGRAM AS REQUIRED BY LAW.
7. ANY PROPOSED EXCAVATION GREATER THAN 12" IN DEPTH WILL REQUIRE THE EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO FACILITATE THE EXCAVATION. NEW DEMARCATION LAYER IS TO BE INSTALLED IN THE AFFECTED AREA DURING BACKFILL PRIOR TO REPLACING THE STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION. ⚠
8. DO NOT USE STEEL PINS, GRADE STAKES, OR OTHER MARKING DEVICES THAT COULD PUNCTURE THE GSL LINER.
9. CAST THE FOUNDATION BLOCKS IN PLACE BY PUMPING CONCRETE OR WITH SPECIALIZED LOW GROUND PRESSURE EQUIPMENT (10 PSI MAXIMUM) TO CARRY CONCRETE TO THE BALLAST BLOCK LOCATION AS SPECIFIED BY THE RACKING MANUFACTURER. PRECAST FOOTINGS MAY BE USED AS LONG AS 10PSI GROUND PRESSURE LIMIT IS NOT VIOLATED.
10. IF WINTER WORK IS REQUIRED, THE CONTRACTOR SHALL SUBMIT A COLD-WEATHER CONCRETING PLAN SPECIFICALLY FOR THE INSTALLATION OF THE CONCRETE FOOTINGS. THE PLAN SHALL BE PREPARED IN GENERAL ACCORDANCE WITH ACI 306R GUIDE TO COLD WEATHER CONCRETING. OR OTHER EQUIVALENT INDUSTRIAL STANDARD. THE PLAN SHALL BE SUBMITTED TO INOVATEUS SOLAR AT LEAST TWO WEEKS PRIOR TO START OF CONSTRUCTION FOR APPROVAL.

PROCEDURAL NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORDS OF ANY DISCREPANCIES NOTED TO EXISTING CONDITIONS, STRUCTURE, ELECTRICAL RUNS (SPECIFY EXISTING ITEMS), ETC. AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS OR CODES, REGULATIONS OR RULES OF JURISDICTIONS HAVING AUTHORITY.
2. A PRE-CONSTRUCTION CONFERENCE IS TO BE HELD BETWEEN THE CONTRACTOR, DEVELOPER, ESCP, CITY OF BUFFALO BUILDING DEPARTMENT AND ANY OTHER INVOLVED PARTIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. ALL DIMENSIONS OF EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING OF EQUIPMENT DURING INSTALLATION.
5. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS, OSHA REQUIREMENTS AND SAFETY MEASURES ON SITE. THE EOR HAS NO OVERALL SUPERVISORY AUTHORITY AND NO DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS OR FOR POSSIBLE EXISTING HAZARDS.
6. CONTRACTOR SHALL PAY FOR AND SECURE ALL PERMITS AND UNDERWRITERS CERTIFICATES.
7. ALL METERS, INSTRUMENTS, CABLE CONNECTION EQUIPMENT AND APPARATUS NECESSARY FOR PERFORMING ALL TESTS SHALL BE FURNISHED BY THE CONTRACTOR.
8. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER OF RECORD AND ESCP FOR APPROVAL PRIOR TO MAKING THE CHANGES. ESCP RESERVES THE RIGHT TO REVIEW AND APPROVE ANY CONTRACTOR INITIATED CHANGES. APPROVED CHANGES SHALL REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE ENGINEER APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO ENGINEERING APPROVAL PLACES ALL LIABILITY ON THE CONTRACTOR.
9. CONTRACTOR SHALL PROVIDE RED-LINED AS-BUILT DRAWINGS THAT INCLUDE ALL DEVIATIONS FROM THE DESIGN DRAWINGS.

GENERAL REQUIREMENTS:

1. ANY WASTE GENERATED AT THE SITE BY THIS WORK SHALL BE DISPOSED OF IN ACCORDANCE WITH THE SITE MANAGEMENT PLAN AND ANY APPLICABLE LOCAL, STATE OR FEDERAL LAWS. IN PARTICULAR, ANY WASTE SOIL GENERATED MUST BE CONTAINERIZED AND, IF REQUIRED, CATEGORIZED FOR OFFSITE DISPOSAL. MANIFESTS FOR SUCH DISPOSAL SHALL BE PROVIDED TO ESCP OR THEIR REPRESENTATIVE FOR INCLUSION IN THE ANNUAL PERIODIC REVIEW REPORT (PRR).
2. BULK STORAGE OF HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO PETROLEUM PRODUCTS, SHALL NOT BE PERMITTED ON SITE WITHOUT THE EXPRESS WRITTEN APPROVAL OF ESCP.
3. ALL SYSTEMS INTENDED TO BE CONNECTED TO EXISTING FACILITIES AT ONE POINT OF COMMON COUPLING (PCC), SHALL BE IN COMPLIANCE WITH NEC ARTICLE 705.12 "POINT OF CONNECTION".
4. ALL DISCONNECTING COMBINERS, PULL/SPLICE BOXES, AND ENCLOSURES SHALL BE LISTED FOR ITS PURPOSE.
5. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS PRIOR TO PERFORMING ANY WORK.
6. CONTRACTOR IS RESPONSIBLE FOR ALL WASTE PRODUCED AND PROPER DISPOSAL FROM THE SITE.
7. THE PROJECT DESIGN WILL COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL ELECTRICAL CODES FOR THE PROJECT SITE.
8. ALL EQUIPMENT SHALL BE INSTALLED IN A SECURE AREA.
9. THE INVERTER FOR THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE IDENTIFIED FOR USE IN SOLAR PHOTOVOLTAIC SYSTEMS.
10. ALUMINUM POWER CABLE, WIRE CONNECTORS, AND INSULATING AND CODING TAPE MANUFACTURERS SHALL BE APPROVED BY THE PROJECT OWNER PRIOR TO USAGE.
11. ALL DISCONNECTING COMBINERS SHALL BE SECURED FROM UNAUTHORIZED/UNQUALIFIED PERSONNEL BY LOCK OR LOCATION.
12. CONDUITS AND CABLES SHALL NOT ENTER THE TOP OF ANY OUTDOOR ENCLOSURE WITHOUT WRITTEN APPROVAL FROM THE PROJECT OWNER.
13. CONDUITS SHALL BE ORIENTED TO PREVENT WATER ENTRY INTO ENCLOSURES.
14. A LISTED FITTING SHALL BE USED TO PREVENT THE ENTRY OF MOISTURE WHEN TRANSITIONING FROM FREE AIR TO CONDUCTORS IN CONDUIT.
15. IF THE LOCATIONS OF SOME EQUIPMENT AND DEVICES AT WHICH CIRCUITS TERMINATE ARE APPROXIMATE ACCORDING TO THE PLAN SET, THEY SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL EACH CIRCUIT TO THE INTENDED EQUIPMENT TERMINATION POINT WITHOUT ADDITIONAL CHARGES TO THE PROJECT OWNER, ALTHOUGH ITS FINAL LOCATION MAY SHIFT SOMEWHAT FROM THAT WHICH IS SHOWN.
16. AFTER ALL REQUIREMENTS OF THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE PROJECT OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE PROJECT OWNER AFTER DELIVERY OF RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

DESIGN AND EQUIPMENT REQUIREMENTS

1. CONDOLETS SHALL NOT BE USED UNLESS APPROVED BY THE PROJECT OWNER.
2. ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LOCAL STATE CODES AND OTHER APPLICABLE LOCAL CODES.
3. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE INTENDED PURPOSE.METALLIC L AND T CONDUIT BODIES SHALL NOT BE USED.
4. USE GASKETED HUBS LISTED FOR THE PURPOSE TO PROVIDE MOISTURE PROTECTION FOR CONDUIT ENTRANCES IN ALL APPLICABLE LOCATIONS AS REQUIRED BY NEC 314.15.
5. PROTECT WIRE FROM SHARP EDGES WITH UV RATED SPIRAL WRAP, EDGE-GUARD, OR SPLIT LOOM.
6. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF THE RACEWAY.
7. DC CONDUCTORS USED AT GREATER THAN 600V MUST HAVE BENDING RADIUS IN COMPLIANCE WITH NEC 300.34.
8. ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION FOR TESTING AND ISOLATION.
9. NO SPLICING SHALL BE PERMITTED IN MAINS OR DC FEEDERS WITHOUT PERMISSION FROM ENGINEER VIA RFI PROCESS. IF APPROVED, SPLICING SHALL BE WITHIN ENCLOSURE AND INDICATED ON FIELD REDLINES.
10. THE ELECTRICAL CONTRACTOR SHALL CONSIDER THE WEATHERING OF EQUIPMENT OVER TIME AND ELIMINATE THE POSSIBILITY OF DEGRADATION DUE TO CORROSION, WATER ENTRY AND UV EXPOSURE. AS A RESULT, THE USE OF UNISTRUT OR SIMILAR MOUNTING SYSTEMS IS REQUIRED TO MOUNT ENCLOSURES, PULL BOXES, LOAD CENTERS, FUSE BOXES, OR OTHER EQUIPMENT.
11. UNLESS OTHERWISE APPROVED ALL NEMA 4 BOXES SHALL BE EQUIPPED WITH LISTED DRAIN PLUGS INSTALLED TO ALLOW WATER TO DRAIN. ANY MODIFICATION TO AS-MANUFACTURED EQUIPMENT SHOULD BE DONE IN SUCH A WAY AS TO MAINTAIN ALL LISTED RATINGS.
12. ALL NEMA 3 BOXES SHALL BE EQUIPPED WITH A WEEP HOLE OR LISTED DRAIN PLUGS INSTALLED TO ALLOW WATER TO DRAIN.
13. ALL DC MATERIALS SHALL BE LISTED FOR 1500V DC, UNLESS OTHERWISE NOTED.
14. ALL DC AND AC COPPER TERMINATIONS SHALL HAVE KOPR-SHIELD, OR EQUIVALENT, APPLIED.
15. ALL BARE COPPER WIRES SHALL BE INSTALLED TO NOT COME INTO CONTACT WITH DISSIMILAR METALS.
16. ALL OUTDOOR ENCLOSURES REQUIRE A PROJECT OWNER-APPROVED MEANS OF VENTILATION AND DRAINAGE.
17. ALL ELECTRICAL CONDUIT, EQUIPMENT AND COMPONENTS MUST BE ADEQUATELY PROTECTED FROM DAMAGE AND VANDALISM BY THE USE OF BOLLARDS, SHIELDS, GUARDS OR OTHER ACCEPTABLE MEANS. SUCH MEANS SHALL BE SHOWN ON THE SITE PLAN AND APPROVED BY THE PROJECT OWNER.
18. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 300.19.
19. PV STRING HOME RUNS SHALL BE LABELED ON BOTH ENDS, AT ARRAY AND AT COMBINER. COMBINER OUTPUT CONDUCTORS SHALL BE LABELED AT BOTH ENDS, AT COMBINER AND AT DISCONNECT.
20. WHERE PVC CONDUIT IS USED ABOVE GRADE, THE PVC CONDUIT SHALL BE SCHEDULE 80.
21. A 6" PVC SCHEDULE 80 SLEEVE WILL BE INSTALLED TO ALL UNDERGROUND PVC TO ABOVE GROUND TRANSITIONS.
22. LIQUID TIGHT FLEXIBLE METAL CONDUIT IS GENERALLY SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND SPACED NO MORE THAN 36 INCHES APART (NEC 350.30).
23. LONG STRAIGHT EXPOSED OR SHALLOW BURIED CONDUIT RUNS, 100 FEET OR MORE, SHALL HAVE EXPANSION FITTINGS INSTALLED PER NEC 300.7(B). EXPANSION FITTINGS SHALL ALSO BE USED WHEN CONDUIT SPANS AN EXPANSION JOINT.
24. WIRES AND FUSES SUBJECT TO TRANSFORMER INRUSH CURRENT SHALL BE SIZED ACCORDINGLY.
25. ALL INSTALLED CIRCUIT BREAKERS THAT ARE SUBJECT TO REVERSE POWER FLOW SHALL BE LISTED AND LABELED AS BACKFEED COMPATIBLE.
26. MINIMUM WIRE SIZE FOR CURRENT CARRYING CONDUCTORS WHEN IMPLEMENTING ALUMINUM AS A CONDUCTOR SHALL BE 1/0 AWG STRANDED AND SHALL BE APPROVED BY THE PROJECT OWNER.
27. EXPOSED PV SOLAR MODULE WIRING WILL BE PV WIRE OR APPROVED EQUIVALENT, 90 DEGREE C, WET RATED AND UV RESISTANT, UNLESS OTHERWISE NOTED.
28. ALL EXPOSED CABLES, SUCH AS MODULE LEADS SHALL BE SECURED WITH MECHANICAL OR OTHER PROJECT OWNER-APPROVED SUN-LIGHT RESISTANT MEANS. UNDER NO CIRCUMSTANCES WILL PLASTIC WIRE TIES BE USED.
29. FOR ALUMINUM CONDUCTORS, WHERE BOLTED CONNECTIONS ARE NOT POSSIBLE, MECHANICAL SCREW STYLE LUGS AND TERMINATIONS ARE APPROVED ONLY WHEN USED IN CONJUNCTION WITH A LISTED COPPER PIGTAIL COMPRESSION ADAPTOR. USE OF A "ONE-SHOT" CRIMPER OR "DIE-LESS CRIMPERS" WILL NOT BE ALLOWED.
30. ELECTRICAL AND MECHANICAL CONNECTIONS AND FASTENERS TO BE TORQUED PER DEVICE LISTING OR MANUFACTURERS RECOMMENDATIONS. SUCH CONNECTIONS WILL BE MARKED WITH PERMANANT MARKING PAINT, AFTER TORQUING.
31. SPLICES/CONNECTORS SHALL BE INSULATED AND WILL REQUIRE PROJECT OWNER APPROVAL. UL LISTED ELECTRICAL TAPE ALONE IS NOT SUITABLE AS THE ONLY INSULATION MEANS. FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION, AND APPLICATION OF INSULATING PRODUCT.
32. INSULATING AND COLOR CODING TAPE SHALL BE APPROVED BY THE PROJECT OWNER.
33. ALL LV AC WIRING SHALL BE TYPE THWN-2 RATED AT 90 DEGREES C, UNLESS OTHERWISE NOTED. XHHW-2 IS AN APPROVED ALTERNATE. THIS NOTE WILL BE SUPERCEDED BY ANY INVERTER SPECIFICATIONS REQUIRING LV AC WIRE TO MEET HIGHER VOLTAGE OR INSULATION STANDARDS.
34. BONDING OF TERMINAL LUGS TO ENCLOSURES SHALL FOLLOW NEC 250.8 AND NEC 250.12.
35. RACKING COMPONENTS AND RACKING STRUCTURAL SUPPORTS WILL FORM A BONDED SYSTEM IN ACCORDANCE WITH UL 2703.
36. MODULES SHALL BE GROUNDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
37. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUND RODS, GROUNDING LUGS, GROUNDING CLAMPS, ETC.
38. ALL INSTALLED EQUIPMENT GROUNDING CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.
39. PHOTOVOLTAIC INVERTERS SHALL COMPLY WITH THE REQUIREMENTS OF UL1741 AND IEEE 1547.

DISCONNECTING MEANS:

1. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER EXISTING CONDUCTORS.
2. WHERE THERE IS A GROUNDED CONDUCTOR, IT MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.
3. UNLESS DISCONNECT IS SERVICING A LINE-SIDE TAP, THE DISCONNECTING MEANS SHALL NOT BE REQUIRED TO BE SUITABLE AS SERVICE EQUIPMENT AND SHALL BE RATED IN ACCORDANCE WITH NEC SECTION 690.13, UNLESS OTHERWISE NOTED.
4. THE PROJECT OWNER WILL REVIEW AND APPROVE THE LOCATIONS OF ALL PHOTOVOLTAIC DISCONNECTING MEANS.
5. MEANS SHALL BE PROVIDED TO DISCONNECT EQUIPMENT SUCH AS INVERTERS, BATTERIES, CHARGE CONTROLLERS, AND SIMILAR COMPONENTS FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.
6. DISCONNECTING MEANS SHALL BE PROVIDED TO DISCONNECT A FUSE FROM ALL SOURCES OF SUPPLY IF THE FUSE IS ENERGIZED FROM BOTH DIRECTIONS AND IS ACCESSIBLE TO NON-QUALIFIED PERSONS. SUCH A FUSE IN A PHOTOVOLTAIC SOURCE CIRCUIT SHALL BE CAPABLE OF BEING DISCONNECTED INDEPENDENTLY OF FUSES IN OTHER PHOTOVOLTAIC SOURCE CIRCUITS.
7. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED AND UNQUALIFIED PERSONNEL BY EITHER LOCK OR LOCATION.
8. SWITCHES SHALL BE RATED NEMA TYPE 3R, UNLESS OTHERWISE NOTED.
9. SWITCHES SHALL BE RATED TO INTERRUPT THE FULL DC LOAD USING A SINGLE POLE.

INVERTER NOTES:

1. SYSTEM GROUNDING MEANS: ALL INVERTERS SHALL BE INSTALLED AS PART OF A PERMANENTLY GROUNDED ELECTRICAL SYSTEM PER THE NEC ANSI/NFPA 70. AN ENGINEERED GROUND CONNECTION FOR THE INVERTER MUST BE INSTALLED AND CONNECTED TO THE UNIT AS DESCRIBED IN THE INVERTER INSTALLATION MANUAL. GROUND CONNECTION MUST BE MADE PRIOR TO OPERATING THE UNIT.
2. KEEP ALL WIRE BUNDLES AWAY FROM ANY SHARP EDGES IN ORDER TO AVOID DAMAGE TO WIRE INSTALLATION.
3. INVERTERS SHALL BE INSTALLED IN ACCORDANCE WITH INVERTER MANUFACTURER REQUIREMENTS.
4. INVERTER ENCLOSURE: ALL INVERTER ENCLOSURES SHALL BE APPROVED BY THE PROJECT OWNER.
5. ANY ALTERATIONS TO INVERTERS MUST BE APPROVED BY THE MANUFACTURER TO MAINTAIN ITS UL LISTING AND WARRANTY.

WIRE COLOR TABLE

	AC CONDUCTORS	
	277/480 V	120/208V
PHASE A	BROWN	BLACK
PHASE B	ORANGE	RED
PHASE C	YELLOW	BLUE
GROUNDED CONDUCTOR	GRAY OR WHITE	WHITE
EQUIPMENT GROUNDING CONDUCTOR	GREEN OR BARE	GREEN OR BARE
GROUNDING ELECTRODE CONDUCTOR	GREEN W/ ORANGE	GREEN W/ ORANGE
	DC CONDUCTORS	
UNGROUNDED CONDUCTOR*	(+) FROM MODULE RED WIRE *	(-) FROM MODULE BLACK WIRE*
GROUNDING CONDUCTOR	GREEN OR BARE	GREEN OR BARE

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9/5/2024

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1	UPDATES PER DEC COMMENTS	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

CONSTRUCTION NOTES
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DATE 9/5/2023	DRAWN BY: TSB, JAT, ESA	H:\WORK\5566.02 Elk Street\DWG\5566.02 TITLE AND NOTES.dwg	
	DESIGNED BY: TSB, JAT	C&A JOB# 5566.03	DRAWING: T-0.1
SCALE AS SHOWN	CHECKED BY: TSB, JSC		
	APPROVED BY: JSC		

ELECTRICAL NOTES:

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL MANUFACTURER'S OR ENGINEER'S DIRECTIONS AND INSTRUCTIONS SHOWN HERE.
2. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRIC CODE (NEC). ALL REFERENCES TO THE NEC IN THE CONTRACT DRAWINGS REFER TO THE 2017 NEC. ANY LOCAL CODES WHICH MAY SUPERCEDE THE NEC SHALL GOVERN.
3. THE ELECTRICAL CONTRACTOR IS ADVISED THAT ALL DRAWINGS & COMPONENT MANUALS, ESPECIALLY THE INVERTER MANUALS, ARE TO BE READ AND UNDERSTOOD PRIOR TO INSTALLATION OR ENERGIZING OF ANY EQUIPMENT. THE CONTRACTOR IS ALSO ADVISED TO HAVE ALL COMPONENT SWITCHES IN THE OFF (OPEN) POSITION AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS.
4. DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT EXACT OR ENTIRE ROUTE OF CABLES AND ELECTRICAL EQUIPMENT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, DISTANCES AND OBSTRUCTIONS.
5. ALL ITEMS OF WORK NEEDED FOR A COMPLETE AND FUNCTIONAL SYSTEM SHALL BE FURNISHED AND INSTALLED COMPLETE IN ALL DETAIL AND READY FOR OPERATION OR SERVICE. APPARATUS REQUIRED SHALL BE FURNISHED AND INSTALLED ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS.
6. ALL ROWS OF MODULES SHALL BE LABELED ON BOTH ENDS TO REFLECT THE ROW NUMBERING OUTLINED ON THE STRING LAYOUT DRAWING SHEET(S).
7. INSTALLATION CREW IS TO HAVE MINIMUM LISCENSING/CERTIFICATION AS REQUIRED BY LOCAL LAW. AT MINIMUM, ONE JOURNEYMAN LEVEL ELECTRICIAN OR ONE NABCEP CERTIFIED WORKER MUST BE ON SITE AT ALL TIMES WHEN ELECTRICAL WORK IS BEING PERFORMED.
8. FOR SAFETY IT IS RECOMMENDED THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PEOPLE WORKING TOGETHER.
9. ALL COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE LISTED BY A THIRD PARTY TESTING AGENCY (UL, ETI., ETC.). EQUIPMENT SHALL BE NEMA 3R OUTDOOR RATED OR BETTER UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING AND PURCHASING EQUIPMENT THAT WILL LAST THE LIFETIME OF THE PV SYSTEM. ALL ENCLOSURES, CONDUITS, STRAPS, PAINTED METAL SURFACES, CONCRETE, GROUNDING EQUIPMENT, AND OTHER PRODUCTS SHALL BE SELECTED TO LAST THE LIFETIME OF THE PV MODULES. THE ENGINEER SPECIFIES THE MINIMUM REQUIRED EQUIPMENT AND SPECIFICATIONS TO ACCOMPLISH THE PROJECT AND THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE SPECIFICATIONS ARE MET OR EXCEEDED WITH GOOD QUALITY EQUIPMENT, WORKMANSHIP AND SKILL.
11. DC VOLTAGE FROM THE ARRAY IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THIS PHOTOVOLTAIC SYSTEM MUST BE WARNED THAT SOLAR MODULES ARE ENERGIZED WHEN EXPOSED TO DAYLIGHT. THE LINE AND LOAD TERMINALS ON THE DC DISCONNECTS MAY BE ENERGIZED IN THE OPEN POSITION AND THE SWITCH IS TO BE LABELED TO COMPLY WITH ARTICLE 690.13 OF THE NEC REFLECTING THIS.
12. ALL PORTIONS OF THIS SOLAR ELECTRIC SYSTEM SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
13. THE ELECTRICAL CONTRACTOR SHALL PERFORM INITIAL HARDWARE CHECKS AND PV/WIRING CONDUCTIVITY CHECKS PRIOR TO TERMINATING ANY WIRES. ALL AC AND DC WIRE RUNS SHALL BE TESTED FOR INSULATION RESISTANCE.
14. ALL JUNCTION BOXES AND OTHER LOCATIONS WHERE MODULE WIRING CONNECTIONS ARE MADE SHALL BE ACCESSIBLE. CLEARANCES AND ACCESSIBILITY AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO ALL APPLICABLE CODES.
15. FOR PROPER MAINTENANCE AND ISOLATION OF INVERTERS, REFER TO ISOLATION PROCEDURE IN INVERTER OPERATIONS MANUAL. CONTRACTOR PERFORMING THE MAINTENANCE IS RESPONSIBLE TO FOLLOW ALL LOCKOUT/TAGOUT PROCEDURES.
16. THE GROUNDING OF THE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH ARTICLES 250 AND 690 OF THE NEC. IF THE REQUIREMENTS DESCRIBED IN THIS DRAWING ARE CLOSELY FOLLOWED, THE GROUNDING REQUIREMENT WILL BE MET. ANY CHANGES WILL NEED TO BE REVIEWED AND DEEMED ACCEPTABLE BY THE ENGINEER, MANUFACTURER AND LISTING AGENCY FOR PRODUCT SAFETY.
17. THE CONTRACTOR IS RESPONSIBLE FOR MOUNTING ALL EQUIPMENT PER THE ENGINEER REPORT OR MANUFACTURER'S SPECIFICATIONS. IF SPECIFICATIONS ARE NOT APPARENT, THE CONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL, AND SOLID IN ORDER TO LAST THE LIFETIME OF THE SOLAR ELECTRICAL SYSTEM.
18. ANY METAL CHIPS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ENCLOSURES, ROOF SURFACE, GROUND SURFACE, AND ANY ADDITIONAL AREA WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.
19. THE ELECTRICAL CONTRACTOR SHALL CONSIDER THE WEATHERING OF EQUIPMENT OVER TIME AND ELIMINATE THE POSSIBILITY OF DEGRADATION OF EQUIPMENT DUE TO WATER ENTRY AND UV EXPOSURE. AS A RESULT, WE REQUIRE THE USE OF UNISTRUT OR SIMILAR MOUNTING SYSTEMS TO MOUNT ENCLOSURES, PULL BOXES, LOAD CENTERS, FUSE BOXES, OR OTHER EQUIPMENT TO PREVENT WATER BUILD-UP.
20. METHOD(S) FOR REMOVING AND PREVENTING THE BUILD-UP OF WATER OR MOISTURE SHALL BE PROVIDED IN ENCLOSURES WHERE CONDENSATION OR WATER BUILD-UP MAY OCCUR. MODIFICATION OF COMPONENTS AND ENCLOSURES SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL NOT VOID NEMA RATING AS SPECIFIED PER PLAN. CARE SHOULD BE TAKEN TO PREVENT PEST INTRUSION INTO ENCLOSURES WITH THE CHOSEN METHOD(S).
21. INSTALLER AND OWNER/OPERATOR SHALL SUPPLY ALL SITE AND EQUIPMENT LABELS AS REQUIRED BY NFPA 70E, OSHA, AND ANY OTHER CODES/AUTHORITIES NOT SPECIFIED IN THIS PLAN SET.
22. CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR EXACT EQUIPMENT PLACEMENT AND REQUIREMENTS.
23. IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE WIRES MAY NOT BE READILY IDENTIFIED BY NAMEPLATE MARKINGS ON THE EQUIPMENT TO WHICH THEY CONNECT, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER POLARITY OR PHASE.
24. THE LAYOUT OF CONDUIT SHOWN IN THESE PLANS IS INDICATIVE ONLY. CONTRACTOR SHALL ROUTE AND LOCATE THE CONDUITS TO SUIT SITE CONDITIONS BUT SHALL NOT EXCEED MAXIMUM CONDUCTOR LENGTHS IDENTIFIED ON THE WIRE SCHEDULE. CONTRACTOR SHALL COORDINATE ALL CHANGES IN WIRING AND CONDUIT WITH THE ENGINEER.
25. WHERE WIRE AND CABLE ROUTING IS NOT SHOWN AND DESTINATION ONLY IS INDICATED, OR MAXIMUM CONDUCTOR LENGTHS WILL BE EXCEEDED, CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LENGTHS REQUIRED. A SKETCH OF THE PROPOSED INSTALLATION SHALL BE SUPPLIED TO THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
26. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF RACEWAYS (NO KINKS).
27. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH THE REQUIREMENTS IN NEC 300.19.
28. INSTALL ALL WIRING MATERIALS IN A NEAT WORKMANLIKE MANNER. USE GOOD TRADE PRACTICES AS REQUIRED BY CHAPTER 3 OF THE NEC.
29. INSTALL CONDUIT TO MAINTAIN PROPER CLEARANCES AND IN A NEAT INCONSPICUOUS MANNER. PROVIDE BOXES, FITTINGS, AND BENDS FOR CHANGES IN DIRECTION. FASTEN CONDUIT SECURELY IN PLACE.
30. ALL CONDUIT SHALL BE INDEPENDENTLY SUPPORTED FROM BUILDING STRUCTURES. CONDUIT SHALL NOT BE SUPPORTED FROM VENTILATION DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS.
31. ALL EXTERIOR CONDUIT AND EQUIPMENT FITTINGS MUST BE WATERTIGHT.
32. PROVIDE PULL, JUNCTION, OR SECTIONALIZING WHERE REQUIRED TO FACILITATE THE INSTALLATION OF WIRING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS. BENDS IN CONDUITS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS.
33. WHEN FIELD CUTTING IS REQUIRED, THE CONDUIT SHALL BE CUT SQUARE AND DEBURRED.
34. CONDUIT SIZES NOT SPECIFIED SHOULD CONFORM TO NEC SPECIFICATIONS TO INCLUDE FILL FACTOR AND DERATING FOR NUMBER OF CONDUCTORS WITH A MINIMUM CONDUIT SIZE BEING 3/4".
35. THE MINIMUM ALLOWABLE WIRE SIZE FOR POWER CONDUCTORS IS #12 AWG. DATA AND COMMUNICATION WIRING MAY BE A SMALLER GAUGE, AND SHALL BE SIZED FOR THE APPLICATION.
36. THE WIRING SIZE IS BASED ON THE ESTIMATED CONDUIT ROUTING AS SHOWN IN THIS DRAWING PACKAGE. SHOULD CONDUIT LENGTH INCREASE DUE TO RELOCATION OF SOURCE AND/OR ROUTING, THE CONDUITS AND THE CONDUCTORS MAY NEED TO BE RESIZED. PLEASE CONTACT THE ENGINEER PRIOR TO MAKING ANY FIELD CHANGES.
37. ALL UL LISTED WIRE CONNECTIONS MUST BE TORQUED PER EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THEN MARKED TO INDICATE IF TAMPERED.
38. IF NOT DESIGNATED BY A SCHEDULE WITHIN THIS DESIGN, ALL CONDUIT SHALL BE GALVANIZED EMT OR RMC METAL CONDUIT.
39. RMC, IMC, OR EMT CONDUIT RUNS, WHERE SUBJECT TO THERMAL EXPANSION AND CONTRACTION, MUST INCORPORATE UL LISTED EXPANSION JOINTS OR LIQUIDTIGHT FLEX METAL CONDUIT TO ALLOW FOR THE MOVEMENT. DO NOT USE RIGID METAL EXPANSION JOINTS FOR EMT.
40. ALL WIRE MUST HAVE ADEQUATE STRAIN RELIEF. THERE MUST BE ADEQUATE WIRE SLACK TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION OF CONDUIT RUNS WITHOUT STRAINING ANY CONDUCTOR OR CONNECTION.
41. WHERE PORTIONS OF A RACEWAY ARE SUBJECT TO DIFFERENT TEMPERATURES WHERE PASSING FROM INTERIOR TO THE EXTERIOR OF A BUILDING, THE RACEWAY SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY.
42. IF NOT DESIGNATED BY A SCHEDULE WITHIN THIS DESIGN, ALL WIRING SHALL BE RATED FOR ITS APPLICATION. WIRE IN CONDUIT SHALL BE THWN-2 OR XHHW-2, AND 90 DEGREE CELSIUS RATED. DIRECT BURIED OR EXPOSED CONDUCTORS SHALL BE RATED FOR THAT ENVIRONMENT.
43. THE ELECTRICAL CONTRACTOR IS REQUIRED TO USE PERMANENTLY COLOR CODED INSULATION PER THE WIRE INSULATION COLOR CODE TABLE SHOWN ON THE DETAILS SHEET. PHASE TAPING BLACK CONDUCTORS DOES NOT MEET THIS REQUIREMENT. THE CONTRACTOR ACCEPTS ALL RISK AND LIABILITY IF THESE INSTRUCTIONS ARE NOT FOLLOWED.
44. STRING HOME RUNS AND EXTENSIONS SHALL USE CONNECTORS THAT ARE UL LISTED WEATHERPROOF, UV RESISTANT, FINGERSAFE PLUG-IN CONNECTORS. CONNECTORS SHALL BE OF LATCHING OR LOCKING TYPE. CONNECTORS READILY ACCESSIBLE AND OPERATING AT OVER 30V SHALL REQUIRE TOOL TO OPEN AND SHALL BE MARKED: "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING" IN ACCORDANCE WITH NEC 690.33. ALL CONDUITS SHALL BE FREE OF ANY OBSTRUCTIONS AND PROPERLY SECURED BEFORE WIRE IS PULLED.
45. ALL UNDERGROUND CABLE SHALL BE MAPPED AND IDENTIFIED ALONG THEIR ENTIRE RUN WITH MYLAR HAZARD TAPE AS SHOWN.
46. DC WIRING AND COMMUNICATIONS CAN AND SHOULD USE WIREWAYS ON RACKING WHENEVER POSSIBLE.
47. WHERE CONDUIT DOES NOT TERMINATE AT A BOX, CONTRACTOR SHALL PROVIDE BELL ENDS AND SEAL WITH EXPANDING FOAM RATED FOR USE WITH WIRING.
48. ALL AGGREGATION PANEL MAIN AND INTERTIE CIRCUIT BREAKERS OR FUSES SHALL BE RATED FOR BIDIRECTIONAL CURRENT. DO NOT USE BREAKERS WITH LINE AND LOAD SIDE INDICATED.
49. ALL METALLIC CONNECTORS AND FITTINGS SHALL BE NON-CORRODING, SUCH AS ALUMINUM, STAINLESS STEEL OR GALVANIZED.
50. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND IN A NEAT INCONSPICUOUS MANNER. RUN PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL MEMBERS. PROVIDE BOXES, FITTINGS AND BENDS FOR CHANGE IN DIRECTION. FASTEN CONDUIT SECURELY IN PLACE.
51. SUPPORT CONDUIT USING STEEL OR MALLEABLE IRON STRAPS, LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS AND SPLIT-HANGERS. HANGER SPACING SHALL BE 10 FT MAXIMUM. USE APPROVED BEAM CLAMPS FOR CONNECTION TO STRUCTURAL MEMBERS.
52. SAFETY REGULATIONS (LOCK OUT-TAG OUT, ETC.) MUST BE OBSERVED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, SIGNS, LABELS, LOCKS AND KEYS.
53. ELECTRICAL CONTRACTOR SHALL PROVIDE SIGNAGE AS SHOWN ON THESE DRAWINGS AND PER NEC ARTICLE 690 AND ALL OTHER APPLICABLE ARTICLES.
54. UNLESS OTHERWISE INDICATED, GROUND ALL EXPOSED NONCURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, EQUIPMENT STRUCTURES AND THE NEUTRAL OF ALL WIRING SYSTEMS IN ACCORDANCE WITH THE NEC, STATE, AND OTHER APPLICABLE LAWS AND REGULATIONS. PROVIDE SEPARATE GROUNDING CONDUCTORS WITH ALL APPLICABLE CIRCUITS AND IN ALL CONDUITS.
55. RECEPTACLES SHALL BE DUPLEX AND RATED 20 AMPS AT 120 VAC, 2 POLE, 3 WIRE, NEMA TYPE 5-20R AND SPECIFICATION GRADE. ALL RECEPTACLES SHALL BE GFI AND WEATHERPROOF TYPE. DEVICE COVER PLATES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED AND THE TYPE OF SERVICE THEY ARE USED FOR.
56. HEAVY DUTY RATED SWITCHES FUSED OR NON-FUSIBLE AS INDICATED ON THE DRAWINGS, SHALL BE PROVIDED AS REQUIRED. GENERAL DUTY SWITCHES WILL NOT BE ALLOWED. SWITCHES SHALL HAVE "QUICK-BREAK" ACTUATING MECHANISMS AND SHALL BE ENCLOSED AS REQUIRED BY THE CONDITIONS OF INSTALLATION. THE COVER SHALL BE INTERLOCKED WITH THE SWITCH SUCH THAT THE ENCLOSURE CANNOT BE OPENED WITH THE SWITCH IN THE "ON" POSITION. THE "ON" AND "OFF" POSITION SHALL BE CLEARLY MARKED BY THE MANUFACTURER. THE SWITCH SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. PROVIDE ENCLOSURES SUITABLE FOR THE SPECIFIC TYPE OF LOCATION IN WHICH THEY ARE INSTALLED. ENCLOSURES SHALL BE LOCKABLE. PROVIDE VISIBLE BLADES SWITCHES WHERE REQUIRED BY CODE OR UTILITY. DISCONNECT SWITCHES SHALL BE MANUFACTURED BY CUTLER-HAMMER, SQUARE D OR EQUAL.
57. CONTRACTOR SHALL BE REQUIRED TO REVIEW CONDUIT AND WIRING ROUTING TO PREVENT MOISTURE FROM ENTERING ANY EQUIPMENT BOXES. PROVIDE SUBMITTALS TO PROJECT OWNER AND PROJECT OWNER'S REPRESENTATIVE FOR APPROVAL OF ANY BRANCH OR SOURCE CIRCUIT TO ANY EQUIPMENT BOXES, WEATHER HEADS, AND WHERE CONDUIT STUBS UP.
58. ALL CONDUIT SHALL BE INSTALLED TO ACCOMMODATE EXPANSION AND CONTRACTION DUE TO AMBIENT TEMPERATURE CHANGES.
59. ALL POWER AND DATA WIRING SHALL BE LISTED FOR WET CONDITIONS.
60. COMPLY WITH PROJECT OWNER CLOSE-OUT, TESTING, INSPECTION, AND COMMISSIONING REQUIREMENTS.
61. THIS PHOTOVOLTAIC SYSTEM'S UTILITY INTERCONNECTION POINT SHALL MEET THE SPECIFIC REQUIREMENTS OF ARTICLE 690 AND ARTICLE 705 OF THE NATIONAL ELECTRICAL CODE. FOLLOW THE SPECIFIC INSTRUCTIONS IN THIS DRAWING SET TO MEET THIS CODE REQUIREMENT.

MODULE NOTES:

1. REFER TO THE MODULE MANUAL FOR MORE DETAILS ON RIGGING, UNPACKING, HANDLING, PLANNING, AND INSTALLATION.
2. THE MODULES MAY BE SHIPPED WITH SEVERAL MODULES PER BOX. TAKE CARE WHEN OPENING THE BOX TO ENSURE THAT ALL MODULES ARE SECURELY HANDLED.
3. NEVER LEAVE A MODULE UNSUPPORTED OR UNSECURED. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL HANDLING ON THE JOB SITE.
4. UPON RECEIPT, CONTRACTOR SHALL INSPECT MODULE SHIPMENTS FOR SIGNS OF DAMAGE. CONTRACTOR SHALL ALSO INSPECT MODULES FOR DAMAGE DURING INSTALLATION.
5. CONTRACTOR SHALL QUARANTINE MODULES SUSPECTED OF DAMAGE. IF DAMAGE IS FOUND ON PANELS IN BUNDLES OR PALLETS, THE ENTIRE BUNDLE OR PALLET SHALL BE QUARANTINED FOR FURTHER INSPECTION/TESTING.
6. CONTRACTOR SHALL RECORD, TRACK, AND REPORT DAMAGED MODULE QUANTITIES TO EPC REPRESENTATIVE.

COMMISSIONING NOTES:

1. PRIOR TO FINAL REQUEST FOR PAYMENT, CONTRACTOR SHALL PROVIDE THE SERVICES OF A THIRD PARTY ELECTRICAL INSPECTOR TO OBTAIN A CERTIFICATE OF INSPECTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, SCHEDULING, PAYING FOR, AND DOCUMENTING ALL INSPECTIONS OR TESTING REQUIRED BY THE AHJ AND UTILITY, INCLUDING BUT NOT LIMITED TO PROGRESS INSPECTIONS, TRANSFORMER TEST RESULTS, RELAY FUNCTIONAL TESTING, CT RATIO AND SATURATION TESTING, PT TESTING, GROUND GRID RESISTANCE TESTING, CIRCUIT BREAKER ACCEPTANCE TESTING, VERIFICATION OF ADEQUACY OF DC BATTERY SUPPLY, OR ANTI-ISLANDING UTILITY WITNESS TESTING.

SOLAR ARRAY COMMISSIONING:

1. BEFORE CLOSING DISCONNECTS, CONNECTING STRINGS, OR ATTEMPTING TO ENERGIZE THE INVERTERS, THE FOLLOWING COMMISSIONING PROCEDURE SHALL BE COMPLETED (IN THIS ORDER). TESTS SHALL BE PERFORMED UNDER THE DIRECTION OF A NABCEP CERTIFIED INSTALLER USING TEST PROCEDURES DEFINED BY THE MOST RECENT VERSION OF IEC 62446. ALL TEST RESULTS ARE SUBJECT TO THE REVIEW OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ANY CORRECTIVE ACTION REQUIRED BY THE ENGINEER IN ORDER TO SATISFY TEST CRITERIA.
   - 1.1. TEST THE CONTINUITY OF ALL CONNECTIONS BETWEEN ALL BONDING JUMPERS AND THE GROUNDING ELECTRODE SYSTEM (RACKING, MODULES, EQUIPMENT BOXES, GROUND RINGS OR RODS, AND ANY OTHER METALLIC COMPONENTS REQUIRED TO BE BONDED TO THE GES PER THE DESIGN DRAWINGS). PRIOR TO SITE INSPECTION BY THE ENGINEER, CONTRACTOR SHALL PHYSICALLY MARK ALL CONNECTIONS THAT WERE TESTED FOR CONTINUITY, AND SHALL PREPARE DOCUMENTATION OF CONTINUITY TEST RESULTS.
   - 1.1. TEST POLARITY OF ALL DC CABLES. FOR SYSTEMS WITH INVERTERS AND/OR DC COMBINER BOXES THAT AUTOMATICALLY DETECT POLARITY ERRORS, ADDITIONAL TESTING AND DOCUMENTATION IS NOT REQUIRED. ON OTHER INVERTERS, CONTRACTOR SHALL PROVIDE A CHECKLIST DOCUMENTING THAT ALL DC CIRCUITS WERE CHECKED FOR POLARITY PRIOR TO ENERGIZING.
   - 1.2. WHERE DC COMBINER BOXES (DCCB) ARE INSTALLED, PERFORM PV COMBINER BOX TESTING TO FURTHER CONFIRM THE ABSENSE OF REVERSE POLARITY CONDITIONS. CONTRACTOR SHALL PROVIDE A CHECKLIST DOCUMENTING THAT ALL DC CIRCUITS WERE CHECKED FOR POLARITY PRIOR TO ENERGIZING.
   - 1.3. TEST THE OPEN CIRCUIT VOLTAGE (VOC) ON ALL SOURCE CIRCUITS AND CONFIRM MAXIMUM VOLTAGE LIMITS ARE NOT EXPECTED TO BE EXCEEDED AFTER ENERGIZING. IV CURVE TESTING MAY BE USED TO VERIFY VOC IF COMPLETED AT THIS STAGE IN COMMISSIONING.
   - 1.4. TEST THE SHORT CIRCUIT CURRENT (ISC) FOR EACH SOURCE CIRCUIT TO CONFIRM MAXIMUM CURRENT LIMITS ARE NOT EXPECTED TO BE EXCEEDED AFTER ENERGIZING. IV CURVE TESTING MAY BE USED TO VERIFY ISC IF COMPLETED AT THIS STAGE IN COMMISSIONING.
   - 1.5. CHECK THAT ALL FUSES, DISCONNECTS AND OTHER BALANCE OF SYSTEM COMPONENTS ARE RATED FOR THEIR INTENDED USE.
   - 1.6. COMPLETE A VISUAL INSPECTION OF ALL THE MODULES TO CHECK FOR BROKEN GLASS, FRAYED WIRES, EXPOSED CONDUCTORS AND ANY OTHER PROBLEMS THAT MAY CAUSE A FAULT.
   - 1.7. TEST FUNCTIONALITY OF ALL SWITCHES, DISCONNECTS, CIRCUIT BREAKERS, AND ANY OTHER CONTROL APPARATUS. CONTRACTOR TO PROVIDE A LIST OF ALL EQUIPMENT THAT WAS TESTED WITH NOTES ON WHAT WAS CHECKED, AND ANY OBSERVED ABNORMALITIES. THE ENGINEER OR INOVATEUS SOLAR MAY REQUEST ADDITIONAL FUNCTIONAL TESTING AS NEEDED TO CONFIRM ALL EQUIPMENT IS FUNCTIONING AS NEW AT THE COMPLETION OF COMMISSIONING. FUNCTIONAL TESTS THAT REQUIRE THE AC SUPPLY TO BE PRESENT, SUCH AS INVERTER ANTI-ISLANDING TESTING, SHALL BE PERFORMED AFTER ENERGIZING THE INVERTERS.
   - 1.8. TEST INSULATION RESISTANCE OF ALL AC AND DC CIRCUITS.
     - 1.8.1. BEFORE IRT TESTING THE SOLAR MODULES, CONTRACTOR SHALL CONFIRM WITH THE MODULE MANUFACTURER THAT TESTING WILL NOT DAMAGE THE INTERNAL DIODES OR VOID THE WARRANTY. CONTRACTOR TO FOLLOW ALL MANUFACTURER REQUIREMENTS.
     - 1.8.2. REFER TO INOVATEUS SOLAR PROVIDED TESTING SPREADSHEET FOR SPECIFIC VOLTAGE AND MINIMUM VOLTAGE.
     - 1.8.3. WHERE PERMISSIBLE BY THE MODULE MANUFACTURER, IRT TESTING MAY BE PERFORMED ON MULTIPLE DC CIRCUITS AT ONCE USING "TEST METHOD B" IN IEC 62446. IF RESULTS ARE NOT ACCEPTABLE, CONTRACTOR TO TEST SUBSETS OF THE FULL ARRAY UNTIL THE COMPROMISED CABLE IS IDENTIFIED.
     - 1.8.4. WHERE MINIMUM INSULATION RESISTANCE IS NOT ACHIEVABLE ON AN INDIVIDUAL CIRCUIT, CONTRACTOR MAY SUBMIT DATA TO ENGINEER FOR REVIEW. THE ENGINEER MAY REQUIRE CONTRACTOR PERFORM WET INSULATION TESTING ON QUESTIONABLE CIRCUITS. CONTRACTOR SHALL REPLACE ANY CONDUCTORS THAT ARE NOT DEEMED ACCEPTABLE BY THE ENGINEER.

INVERTER COMMISSIONING:

1. BEFORE TURNING THE INVERTER ON, OR CLOSING ANY OF THE INVERTER DISCONNECTS, THE FOLLOWING COMMISSIONING PROCEDURE SHALL BE COMPLETED:
   - 1.1 CHECK AC INPUT VOLTAGE IS IN THE PROPER PHASE SEQUENCE (CLOCKWISE) IF APPLICABLE.
   - 1.2 CHECK THAT THE AC GRID VOLTAGE AT THE INVERTER AC TERMINALS IS WITHIN THE PROPER RANGE AS DEFINED BY THE INVERTER RATING LABEL AND ACCOMPANIED MANUAL.
   - 1.3 FOLLOW START-UP SEQUENCE IN MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL.

PERFORMANCE TESTING:

1. SEE EXHIBIT H OF THE CONTRACT.

O&M NOTES:

1. THE FACILITY SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH SOLAR INDUSTRY BEST PRACTICES, NFPA 70E, AND ALL APPLICABLE OSHA REQUIREMENTS.
2. THE FACILITY SHALL COMPLY WITH THE FOLLOWING FIRE MITIGATION PLAN PER NEC 691.10:
   - 2.1. PERFORM INSPECTION OF THE PV ARRAY USING IR IMAGING, DURING COMMISSIONING AND ANNUALLY THEREAFTER TO IDENTIFY POTENTIAL ARC FAULTS VIA THERMAL MEANS, WITH PARTICULAR ATTENTION TO ALL MC4 CONNECTIONS BETWEEN PV MODULES.

STATE OF NEW YORK · HAMEED SUZANNE CROWDER · 110556 · LICENSED PROFESSIONAL ENGINEER

5/1/2024

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

CONSTRUCTION NOTES
SHEET 2

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

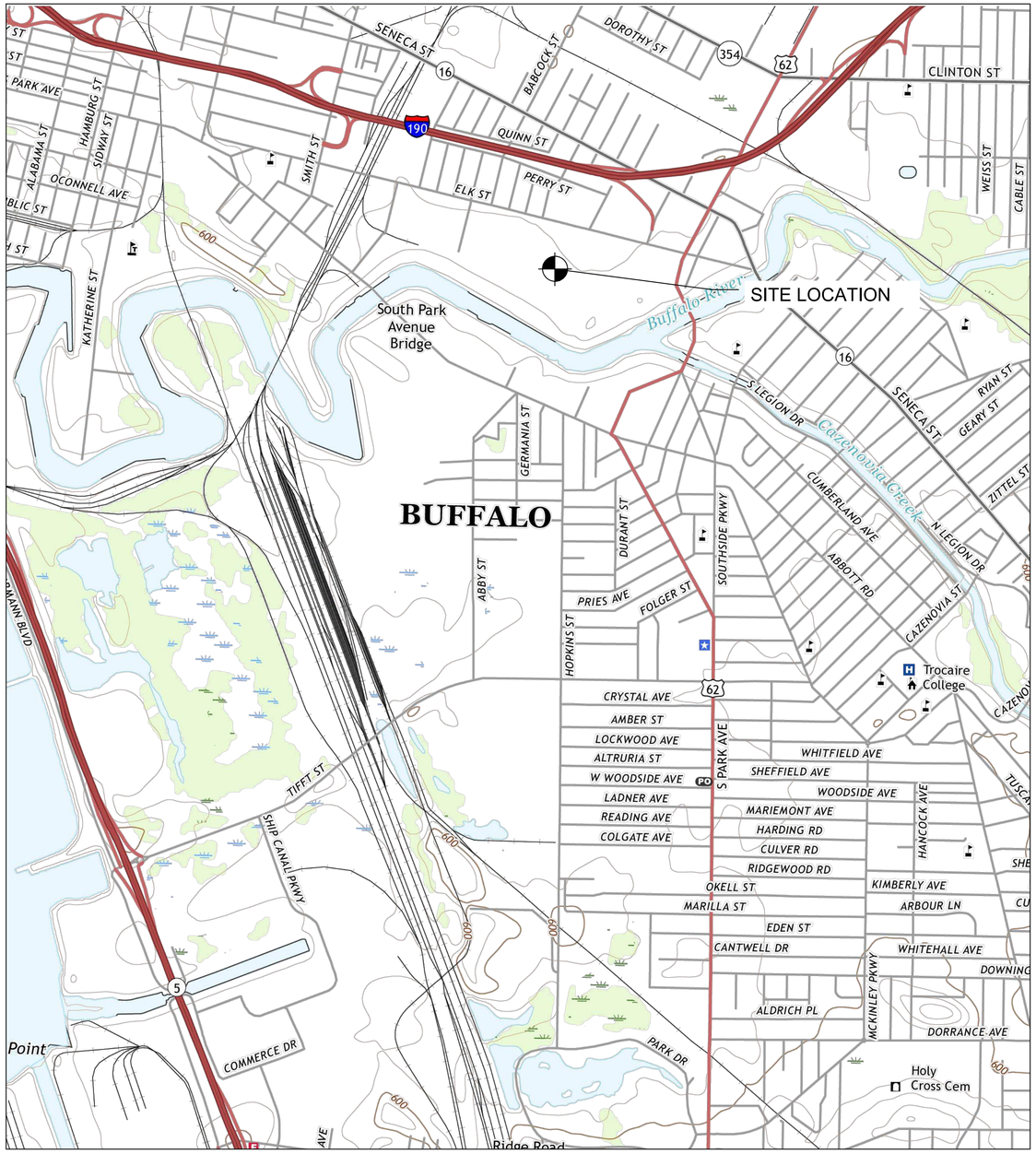
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DATE 9/5/2023	DRAWN BY: TSB, JAT, ESA	H:\WORK\5566.02 Elk Street\DWG\5566.02 TITLE AND NOTES.dwg	
	DESIGNED BY: TSB, JAT	C&A JOB# 5566.03	DRAWING: T-0.2
SCALE AS SHOWN	CHECKED BY: TSB, JSC		
	APPROVED BY: JSC		

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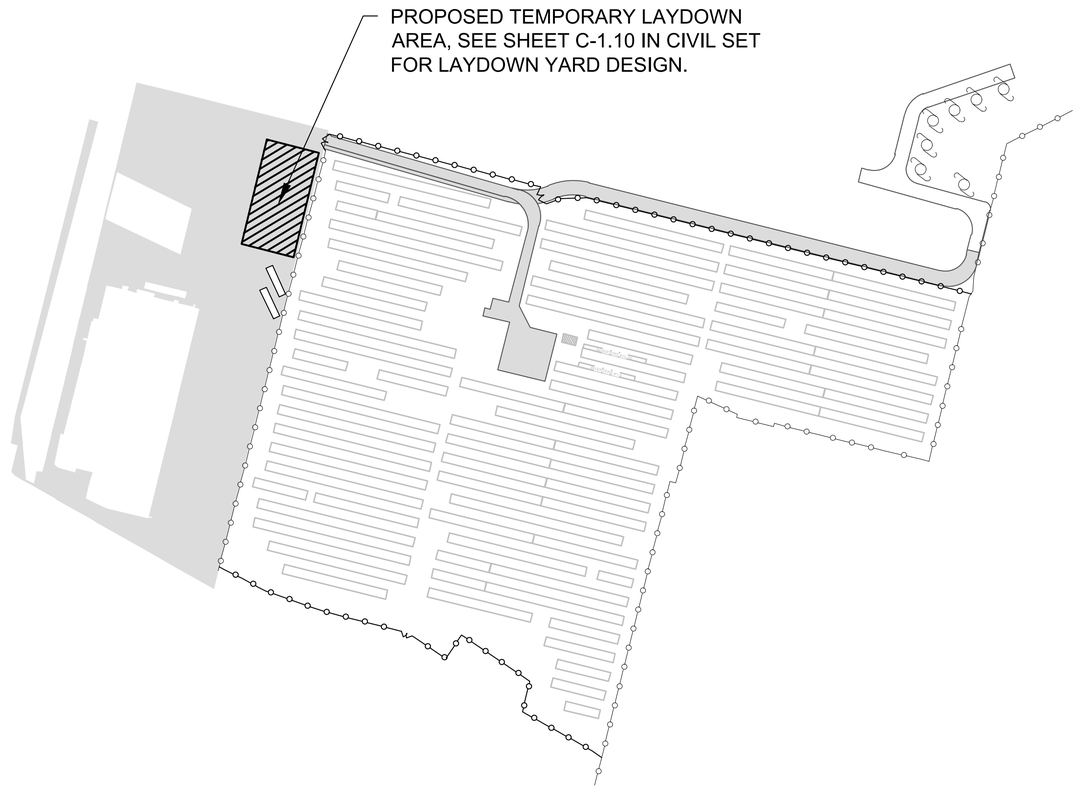
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GRAPHIC SCALE

1000 0 500 1000 2000 4000

(IN FEET)
1 inch = 1000 ft.



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

CONSTRUCTION ACCESS AND STAGING

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

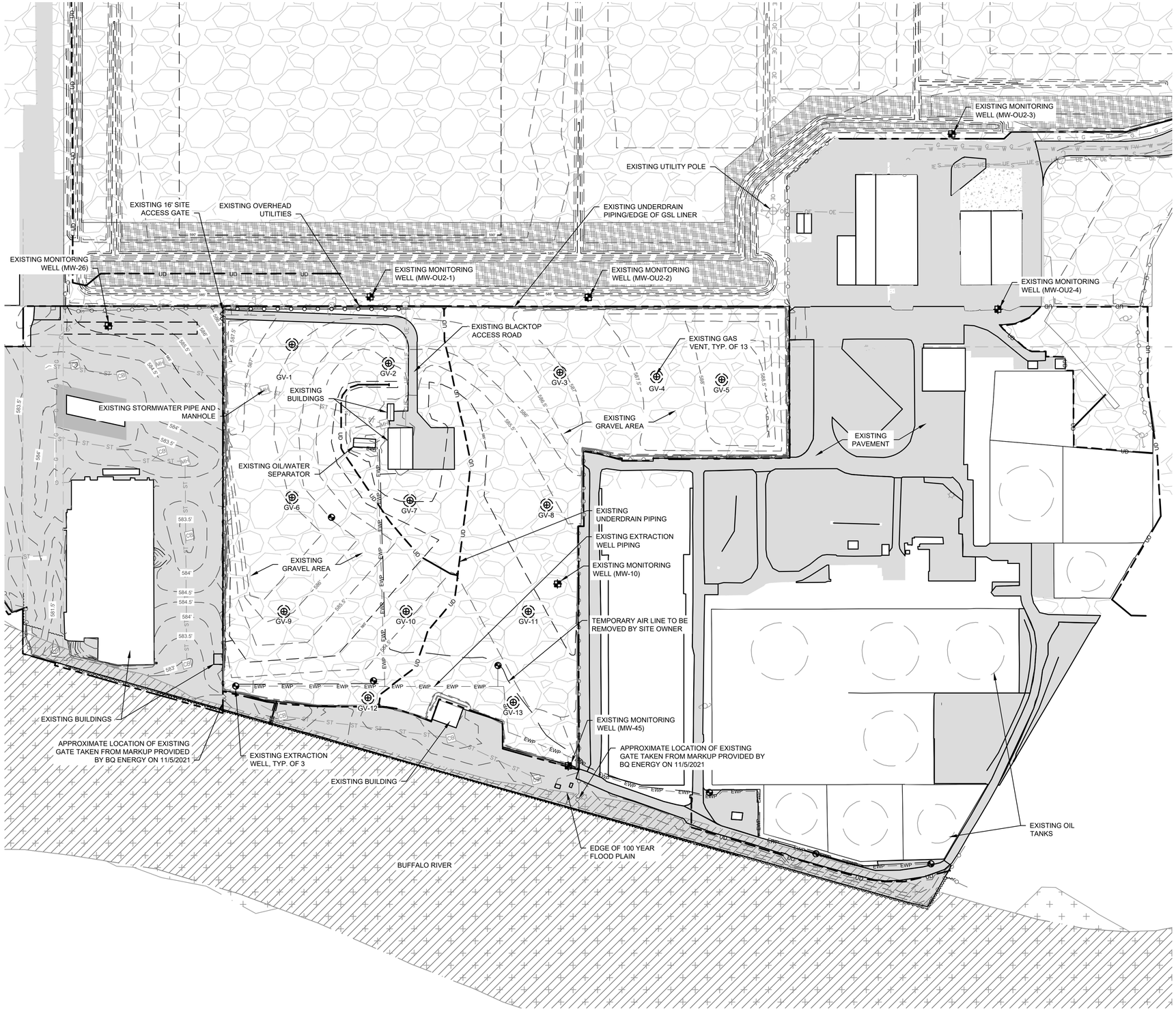
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ENGINEERING & LAND SURVEYING, PC
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www.crawfordandassociates.com fax: (518) 828-2723

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STATE OF NEW YORK · JENNIFER SUZANNE CROWLEY · 125056 · LICENSED PROFESSIONAL ENGINEER
9/5/2024

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	APPROVED BY: JSC		



EXISTING CONDITIONS SITE MAP

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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LEGEND

- EXISTING CONTOUR .5' INTERVAL (586.5)
- EXISTING CONTOUR 5' INTERVAL (585)
- EXISTING LEASE LINE
- EXISTING/PROPOSED ROAD EDGE
- EXISTING/PROPOSED FENCE
- EXISTING STORMWATER LINE (ST)
- EXISTING GAS LINE (G)
- EXISTING WATER LINE (W)
- EXISTING FIRE WATER LINE (FW)
- EXISTING SEWER LINE (S)
- EXISTING OVERHEAD ELECTRIC (OE)
- EXISTING UNDERGROUND ELECTRIC (UE)
- EXISTING EXTRACTION WELL PIPE (EWP)
- EXISTING TEMPORARY AIR LINE
- EXISTING UNDERDRAIN (UD)
- EXTENT OF GSL LINER/EXISTING UNDERDRAIN
- EXISTING/PROPOSED STORMWATER MANHOLE (MH)
- EXISTING/PROPOSED STORMWATER CATCH BASIN (CB)
- EXISTING BUILDING
- EXISTING PAVEMENT HATCH
- REGULATORY FLOODWAY
- EXISTING CRUSHED STONE CAP MATERIAL
- EXISTING STORMWATER BASIN
- 100-YEAR FLOODPLAIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED LIGHT POLE
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- APPROXIMATE EXISTING UTILITY EASEMENT

REV #	DESCRIPTION	DATE	BY
1	DRAWING NOTES UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

EXISTING CONDITIONS SITE MAP

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

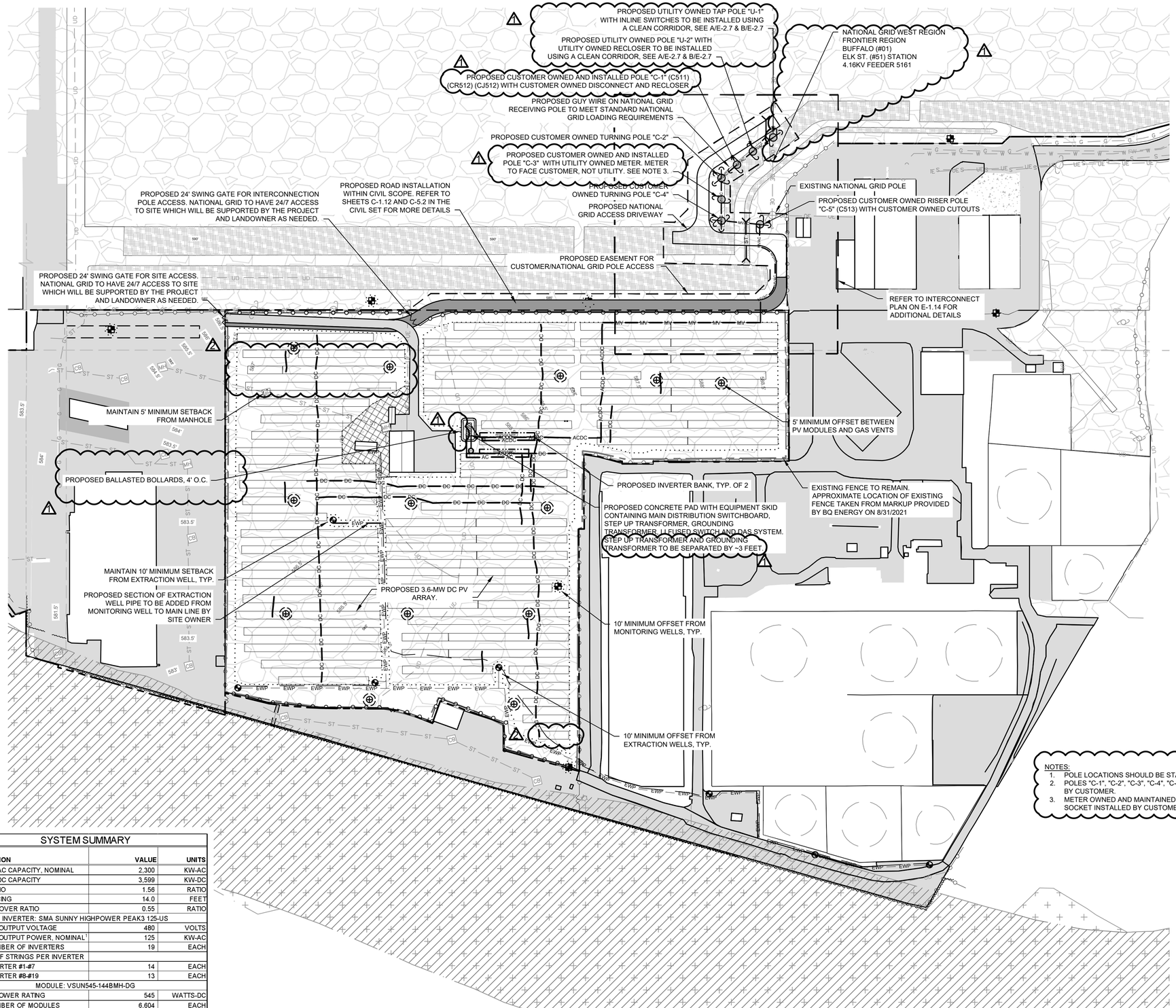
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3/22/2024

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AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.0



PROPOSED ELECTRICAL SITE PLAN

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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LEGEND

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- EXISTING/PROPOSED FENCE
- EXISTING STORMWATER LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING FIRE WATER LINE
- EXISTING SEWER LINE
- EXISTING OVERHEAD/UNDERGROUND ELECTRIC
- EXISTING/OWNER ADDED EXTRACTION WELL PIPE
- EXISTING UNDERDRAIN
- EXTENT OF GSL LINER/EXISTING UNDERDRAIN
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING BUILDING
- EXISTING/PROPOSED PAVEMENT HATCH
- PV MODULE EXCLUSION AREA PER ESCP
- FEMA REGULATORY FLOODWAY
- EXISTING CRUSHED STONE CAP MATERIAL
- EXISTING STORMWATER BASIN
- FEMA 1% ANNUAL CHANCE FLOOD ZONE HATCH
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET, SEE NOTE 5.
- EXISTING/PROPOSED LIGHT POLE
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- APPROXIMATE EXISTING UTILITY EASEMENT
- PROPOSED MODULE SETBACK
- PROPOSED DC ELECTRIC
- PROPOSED LOW VOLTAGE AC ELECTRIC
- PROPOSED MEDIUM VOLTAGE AC ELECTRIC
- PROPOSED AC & DC ELECTRIC
- PROPOSED CONCRETE EQUIPMENT PAD
- PROPOSED NATIONAL GRID ACCESS AREA

NOTES:
1. POLE LOCATIONS SHOULD BE STAKED IN FIELD BY A SURVEYOR.
2. POLES "C-1", "C-2", "C-3", "C-4", "C-5" TO BE OWNED AND INSTALLED BY CUSTOMER.
3. METER OWNED AND MAINTAINED BY NATIONAL GRID, METER SOCKET INSTALLED BY CUSTOMER.

SYSTEM SUMMARY

DESCRIPTION	VALUE	UNITS
MAXIMUM AC CAPACITY, NOMINAL	2,300	KW-AC
MAXIMUM DC CAPACITY	3,599	KW-DC
DC-AC RATIO	1.56	RATIO
ROW SPACING	14.0	FEET
GROUND COVER RATIO	0.55	RATIO
INVERTER: SMA SUNNY HIGHPOWER PEAK3 125-US		
INVERTER OUTPUT VOLTAGE	480	VOLTS
INVERTER OUTPUT POWER, NOMINAL[1]	125	KW-AC
TOTAL NUMBER OF INVERTERS	19	EACH
NUMBER OF STRINGS PER INVERTER		
INVERTER #1-#7	14	EACH
INVERTER #8-#19	13	EACH
MODULE: VSUN545-144BMH-DG		
MODULE POWER RATING	545	WATTS-DC
TOTAL NUMBER OF MODULES	6,604	EACH
MODULES PER RACK, VERTICALLY	2	PORTRAIT
MODULES PER STRING	26	EACH
MAX DC SYSTEM VOLTAGE	1,500	VOLTS
NUMBER OF STRINGS	254	EACH
TILT ANGLE	30	DEGREES
AZIMUTH ANGLE	14	DEGREES

[1] INVERTER #1-10 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.1KW-AC. INVERTER #11-19 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.0KW-AC.

REV #	DESCRIPTION	DATE	BY
2	UPDATES PER NYSDEC COMMENTS	3/22/24	JAT
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	ESA

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

PROPOSED ELECTRICAL SITE PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
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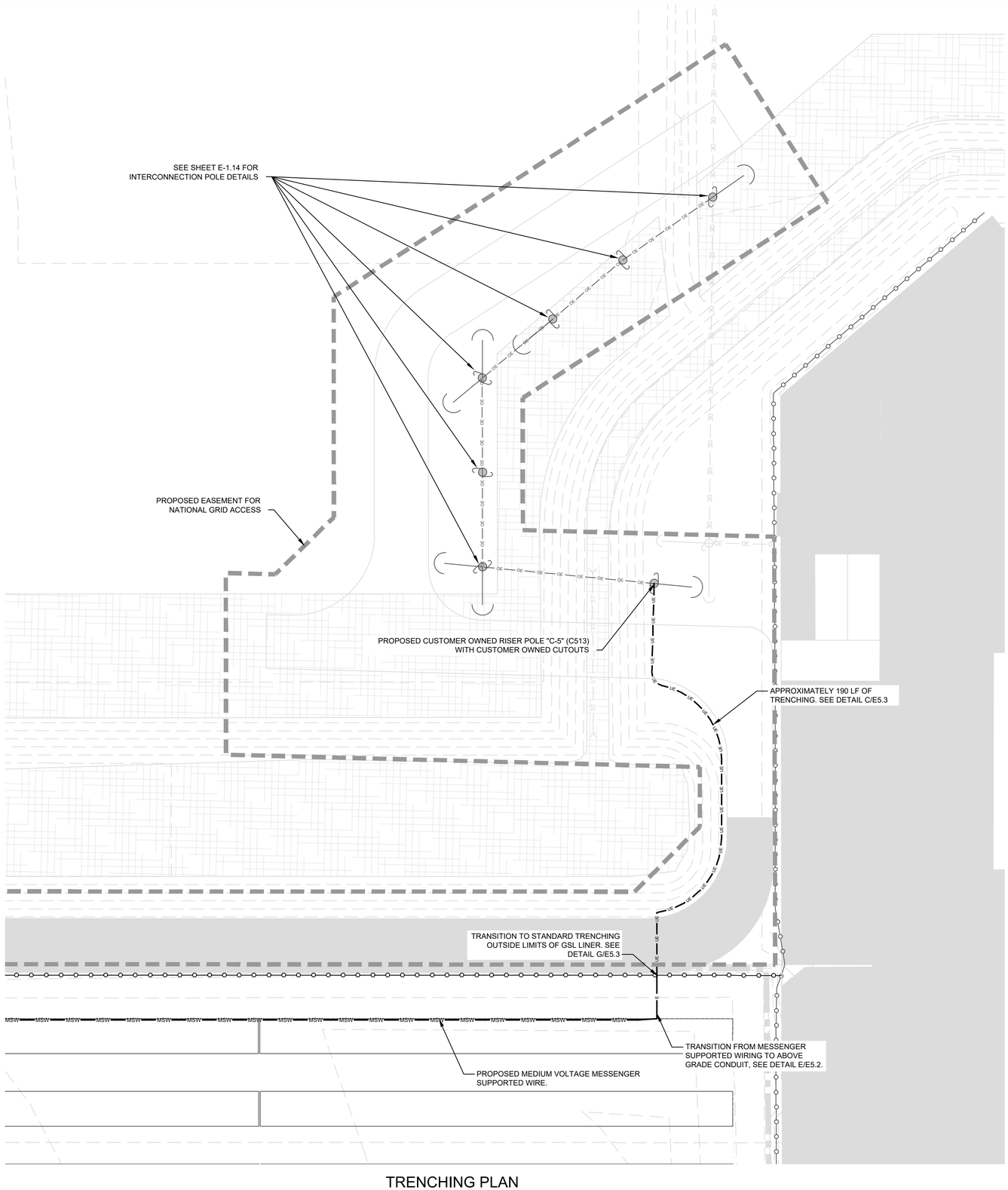
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9/5/2023	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.1



TRENCHING PLAN

SCALE: 1"= 20'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- EXISTING/PROPOSED FENCE
- PROPOSED SHALLOW TRENCHING
- EXTENT OF GEOMEMBRANE/EXISTING UNDERDRAIN
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED MESSENGER WIRE SUPPORTED WIRING
- PROPOSED ABOVE GRADE CONDUIT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
1	DRAWING NOTES UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

TRENCHING PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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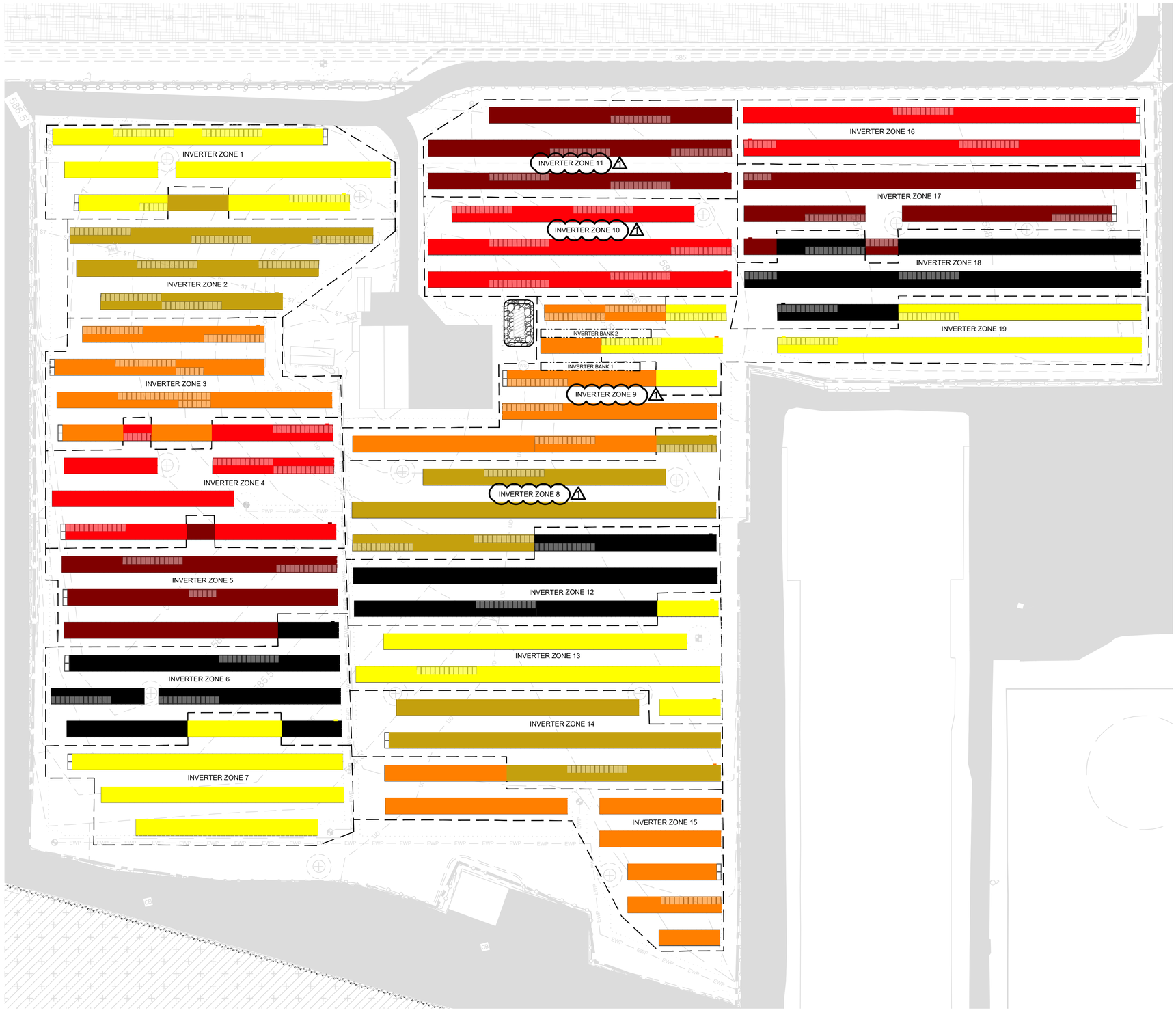
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9/5/2024

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AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.2



INVERTER ZONES
SCALE: 1"= 80'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- INVERTER ZONE BOUNDARY
- INVERTER BANK X — INVERTER BANK LOCATION

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
1	INVERTER ZONES NUMBERING UPDATE	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INVERTER ZONES

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
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LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE GRONTKOWSKI — 120556 — STATE OF NEW YORK

9/5/2024

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		APPROVED BY: JSC	DRAWING: E-1.3



GROUNDING PLAN
SCALE: 1"= 80'

LEGEND

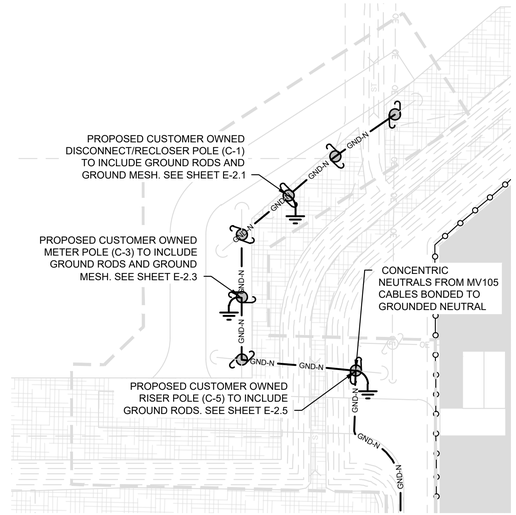
- GND — GND — PROPOSED EQUIPMENT GROUNDING CONDUCTOR (EGC) ROUTE
- GND-N — GND-N — PROPOSED GROUNDED CONDUCTOR (NEUTRAL) ROUTE
- PROPOSED GROUNDING ELECTRODE
- EXISTING/PROPOSED FENCE
- INVERTER BANK X — PROPOSED INVERTER BANK
- DCCB-X — PROPOSED DC COMBINER BOX

GROUNDING NOTES:

1. GROUNDING DIAGRAM IS SCHEMATIC. ACTUAL PHYSICAL LOCATIONS TO BE DETERMINED IN FIELD.
2. ALL METALLIC ENCLOSURES MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.
3. RACKING SYSTEM IS UL LISTED 2703.
4. ALL RACKING TO FOLLOW MANUFACTURER'S GROUNDING GUIDELINES, REFER TO INSTALLATION MANUAL.
5. BOND EVERY FENCE AND GATE POST TO BARBED WIRE AND MESH ON EITHER SIDE OF THE POST USING #6 SOLID COPPER EGC.
6. THE GROUNDING CONNECTION SHALL BE MADE TO THE GROUNDING SYSTEM OF THE ENCLOSURE EQUIPMENT.
7. SEE SHEET E-6.5 AND E-6.6 FOR CABLE AND CONDUIT SCHEDULES.
8. SEE SHEET E-1.2 FOR TRENCHING PLAN.
9. SEE SHEET E-5.1 FOR GROUNDING RING DETAIL.

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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INSET A - POLE LINEUP GROUNDING
SCALE: 1"= 80'

GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
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REV #	DESCRIPTION	DATE	BY
1	UPDATED MSW ROUTE	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

GROUNDING PLAN

INOVATEUS SOLAR LLC
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South Bend, IN 46637

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3/22/2024

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		CHECKED BY: TSB, JSC	
		APPROVED BY: JSC	
C&A JOB#	5566.03	DRAWING:	E-1.4



AC CABLE PLAN
SCALE: 1"= 40'

DRAWING NOTES:

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LEGEND

- MSW MSW MSW — PROPOSED MESSENGER SUPPORTED WIRING
- E E E — PROPOSED ABOVE GRADE CONDUIT
- CT CT CT — PROPOSED CABLE TRAY
- UE UE — PROPOSED UNDERGROUND ELECTRIC
- PROPOSED EQUIPMENT PAD

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
1	DRAWING NOTES UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

AC CABLE PLAN

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19890 State Line Road
South Bend, IN 46637

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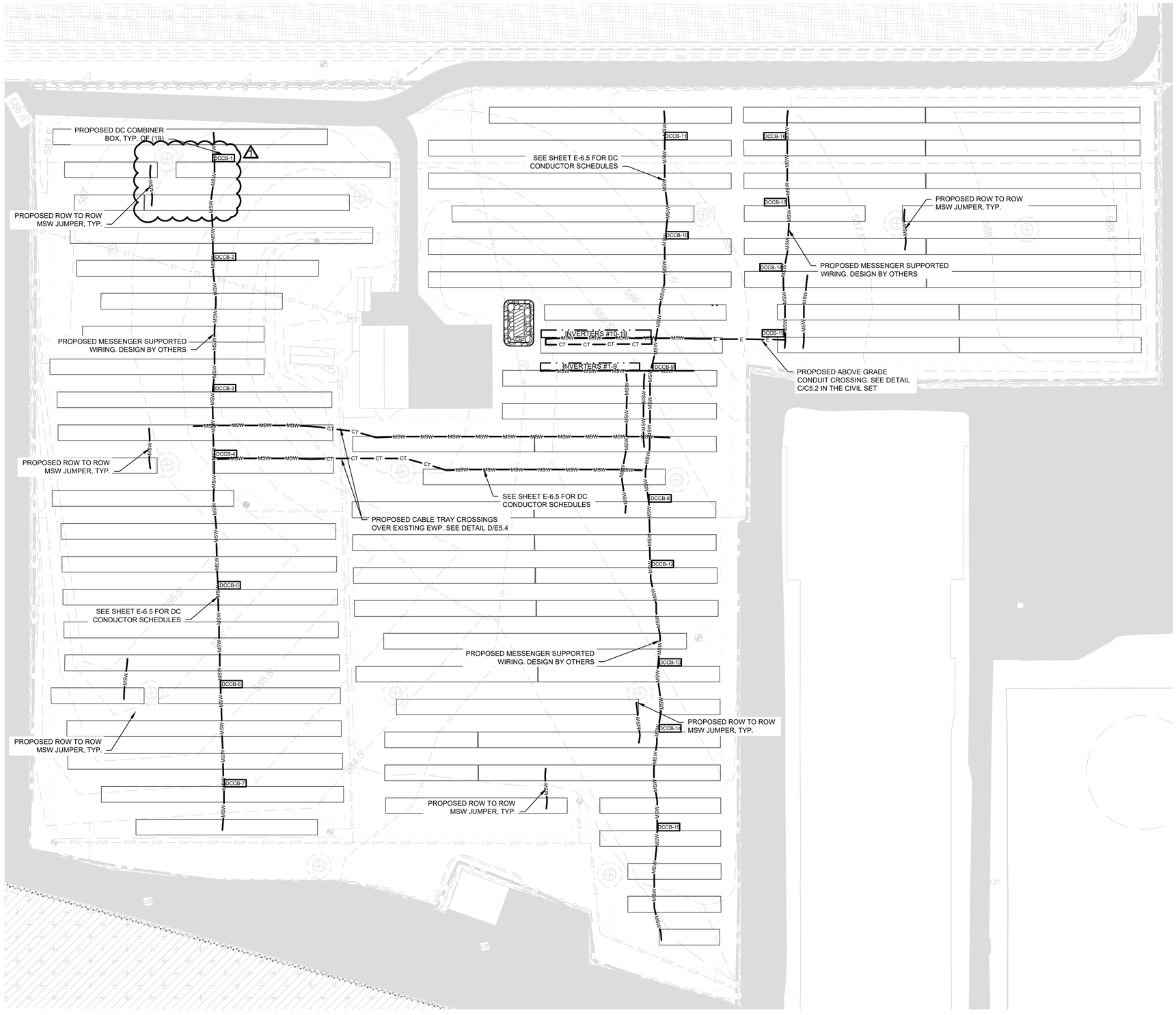
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		APPROVED BY:	JSC
C&A JOB#	5566.03	DRAWING:	E-1.5

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DC CABLE PLAN

SCALE: 1"= 40'

DRAWING NOTES:

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- DCCB-X — PROPOSED DC COMBINER BOX
- PROPOSED EQUIPMENT PAD

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

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SUZANNE GRACE CROWFORD
100556
STATE OF NEW YORK
9/5/2024

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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

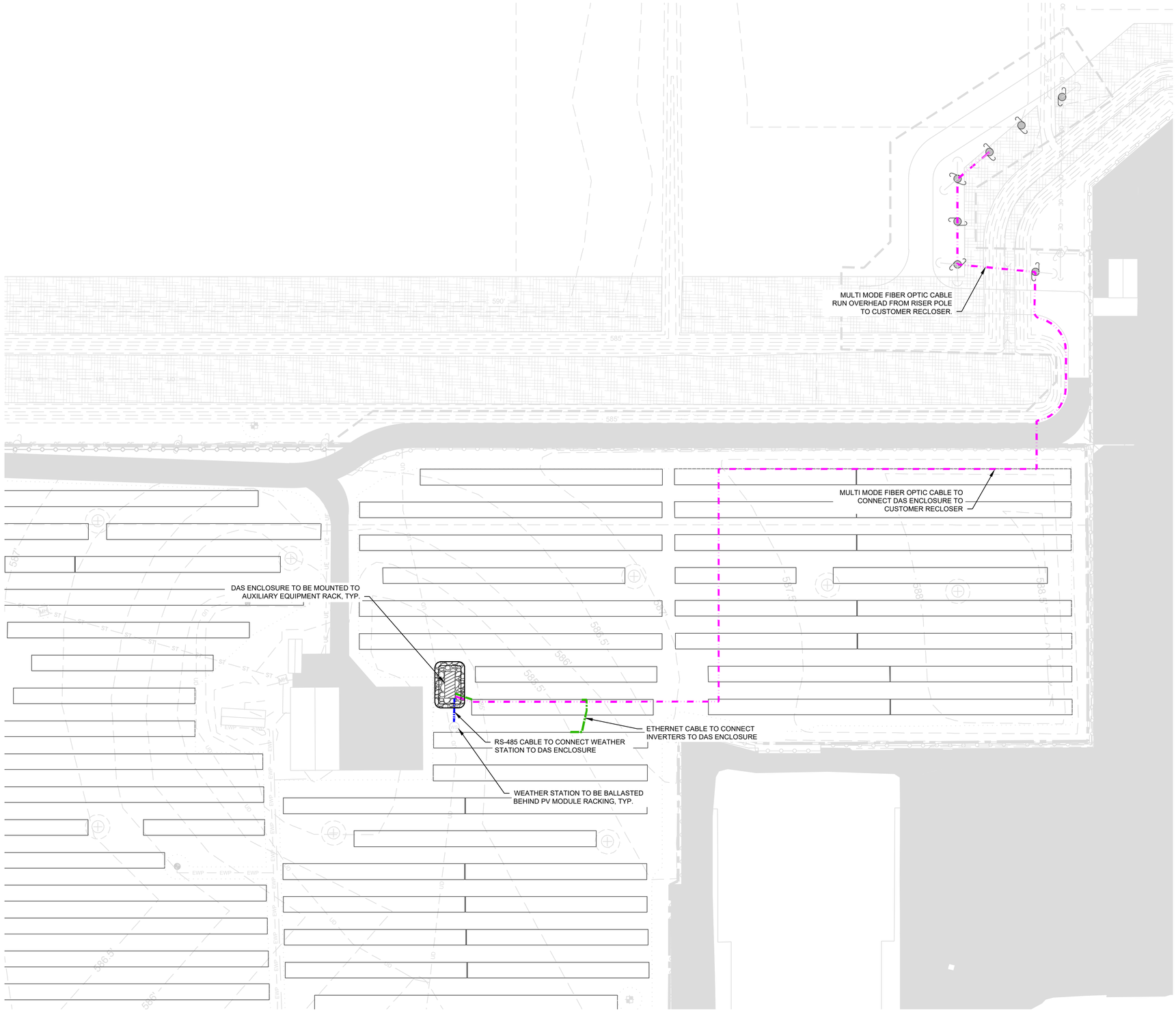
DC CABLE PLAN

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SCALE	CHECKED BY: TSB, JSC	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.6



COMMUNICATION LAYOUT
SCALE: 1"= 40'

DRAWING NOTES:

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LEGEND

- ETHERNET CAT5E
- SERIAL / RS-485
- FIBER MULTI-MODE

COMMUNICATIONS NOTES:

1. CABLE LOCATIONS ARE DIAGRAMMATIC IN NATURE AND DO NOT REFLECT EXACT ROUTING OF CABLES, SEE ELECTRICAL PLAN SHEET E-1.2 FOR TRENCHING LOCATIONS.
2. CONTRACTOR TO PROVIDE CABLES AND CONNECTIONS BETWEEN DAS SYSTEM ENCLOSURES, SENSORS, AND SYSTEM EQUIPMENT.
3. WIRE TYPES AND SIZES TO BE PER ALSO ENERGY RECOMMENDATIONS.

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REV #	DESCRIPTION	DATE	BY
1	DRAWING NOTES UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMMUNICATION LAYOUT

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South Bend, IN 46637

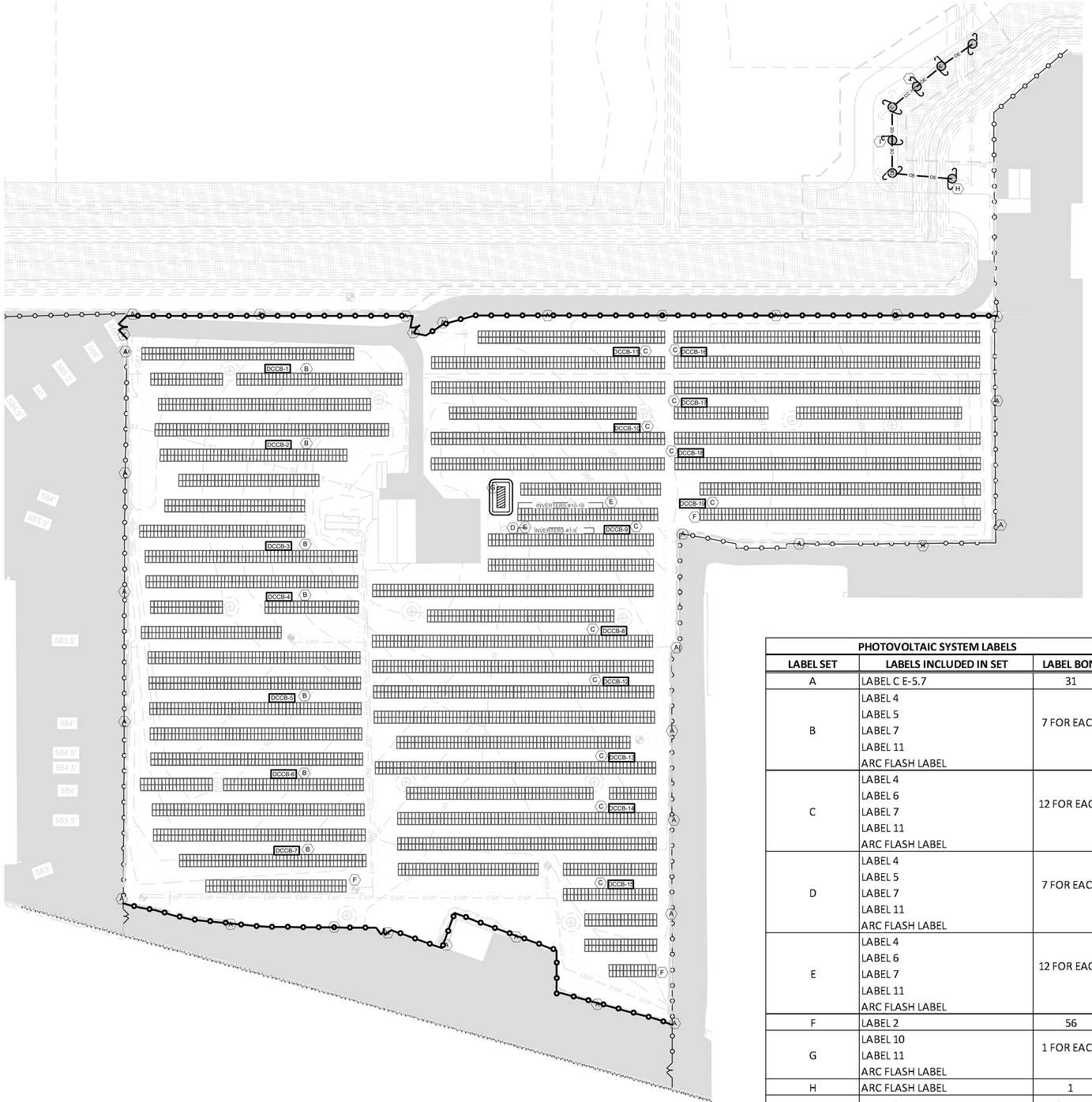
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9/5/2023	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB# / DRAWING:
AS SHOWN	APPROVED BY: JSC	5566.03 / E-1.7



ARRAY MAPPING PLAN

SCALE: 1"= 60'

PHOTOVOLTAIC SYSTEM LABELS		
LABEL SET	**LABELS INCLUDED IN SET**	**LABEL BOM**
A	LABEL C E-5.7	31
B	LABEL 4 LABEL 5 LABEL 7 LABEL 11 ARC FLASH LABEL	7 FOR EACH
C	LABEL 4 LABEL 6 LABEL 7 LABEL 11 ARC FLASH LABEL	12 FOR EACH
D	LABEL 4 LABEL 5 LABEL 7 LABEL 11 ARC FLASH LABEL	7 FOR EACH
E	LABEL 4 LABEL 6 LABEL 7 LABEL 11 ARC FLASH LABEL	12 FOR EACH
F	LABEL 2	56
G	LABEL 10 LABEL 11 ARC FLASH LABEL	1 FOR EACH
H	ARC FLASH LABEL	1
I	LABEL 8B	1 FOR EACH
J	LABEL 8 LABEL 9 LABEL 10 LABEL 11 LABEL E E-5.6	1 FOR EACH
K	LABEL C E-5.7 LABEL 10	3 FOR EACH

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LEGEND

- EXISTING/PROPOSED FENCE
- INVERTER BANK X — PROPOSED INVERTER BANK
- (X) — LABEL SET

GENERAL NOTES:

1. SEE E-5.5, E-5.6 AND E-5.7 FOR SIGNAGE DETAILS.
2. END-OF-ROW LABEL SETS "F" ARE SHOWN IN TYPICAL LOCATION. THE INSTALLER IS TO MOUNT THEM AT THE END OF THE ROW ON THE SIDE OF THE RACKING.
3. LABELS AROUND FENCE ARE APPROXIMATE AND TO BE PLACED EVERY 100 FEET.

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

REV #	DESCRIPTION	DATE	BY
1	DRAWING NOTES UPDATES	3/22/24	JAT

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY MAPPING PLAN

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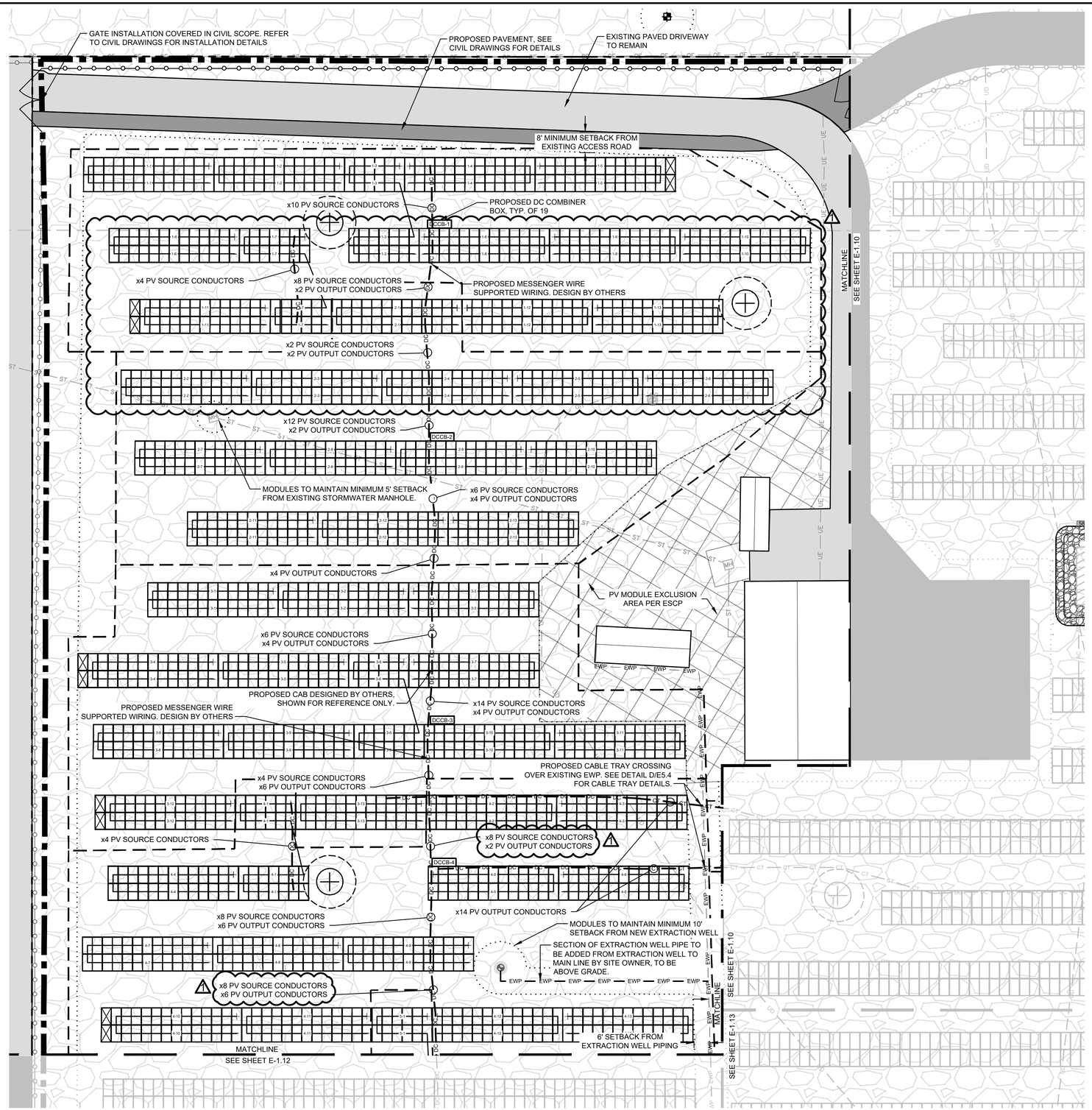
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SCALE AS SHOWN	CHECKED BY: TSB, JSC	C&A JOB# 5566.03	DRAWING: E-1.8
	APPROVED BY: JSC		



COMBINER BOX ZONES - AREA 1

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST

TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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4. 10 FOOT OFFSET FROM GAS VENTS FOR COMBINER BOXES, INVERTERS AND JUNCTIONS OTHER THAN PV SOURCE STRINGS. 5 FOOT OFFSETS FROM GAS VENTS FOR MODULES.
5. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION, AND MAY BE CHANGED BY THE UTILITY AT ANY TIME IN THE FUTURE.

NOTES:

1. MSW FILLS BASED ON PRELIMINARY COORDINATION WITH TERRASMART. FILLS TO BE VERIFIED BY EOR PRIOR TO CONSTRUCTION

LEGEND

- EXISTING/PROPOSED FENCE
- UE — EXISTING UNDERGROUND ELECTRIC
- EWP — EXISTING EXTRACTION WELL PIPING
- EWP — EXTRACTION WELL PIPING TO BE COMPLETED BY OWNER
- UD — EXISTING UNDERDRAIN
- EXTENT OF GEOMEMBRANE/EXISTING UNDERDRAIN
- MH / MH — EXISTING/PROPOSED STORMWATER MANHOLE
- CB / CB — EXISTING/PROPOSED STORMWATER CATCH BASIN
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- EXISTING GAS VENT W/ 5' AND 10' OFFSET
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- DC — PROPOSED DC ELECTRIC
- AC — PROPOSED LV-AC ELECTRIC
- MV — PROPOSED MV-AC ELECTRIC
- ACDC — PROPOSED AC & DC ELECTRIC
- INVERTER ZONE BOUNDARY
- DCCB-X — PROPOSED DC COMBINER BOX
- INVERTER BANK X — PROPOSED INVERTER BANK
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP
- EXISTING/PROPOSED PAVEMENT HATCH
- WS — PROPOSED WEATHER STATION
- X-X — MODULE STRING

REV #	DESCRIPTION	DATE	BY
1	LAYOUT UPDATE	3/22/24	JAT

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 1

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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DESIGNED BY:	TSB, JAT
CHECKED BY:	TSB, JSC
APPROVED BY:	JSC
C&A JOB#	5566.03
DRAWING:	E-1.9

N:\WORK\5566.02 Elk Street\DWG\5566.02 SITE - ELEC.dwg



COMBINER BOX ZONES - AREA 2

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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NOTES:

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LEGEND

- EXISTING/PROPOSED FENCE
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- EXISTING EXTRACTION WELL PIPING
- EXTRACTION WELL PIPING TO BE COMPLETED BY OWNER
- EXISTING UNDERDRAIN
- EXTENT OF GEOMEMBRANE/EXISTING UNDERDRAIN
- EXISTING/PROPOSED STORMWATER MANHOLE
- EXISTING/PROPOSED STORMWATER CATCH BASIN
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- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- PROPOSED MODULE SETBACK
- PROPOSED DC ELECTRIC
- PROPOSED LV-AC ELECTRIC
- PROPOSED MV-AC ELECTRIC
- PROPOSED AC & DC ELECTRIC
- INVERTER ZONE BOUNDARY
- DCCB-X PROPOSED DC COMBINER BOX
- INVERTER BANK X PROPOSED INVERTER BANK
- PROPOSED EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP
- EXISTING/PROPOSED PAVEMENT HATCH
- WS PROPOSED WEATHER STATION
- MODULE STRING

REV #	DESCRIPTION	DATE	BY
1	LABELS AND STRINGING UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 2

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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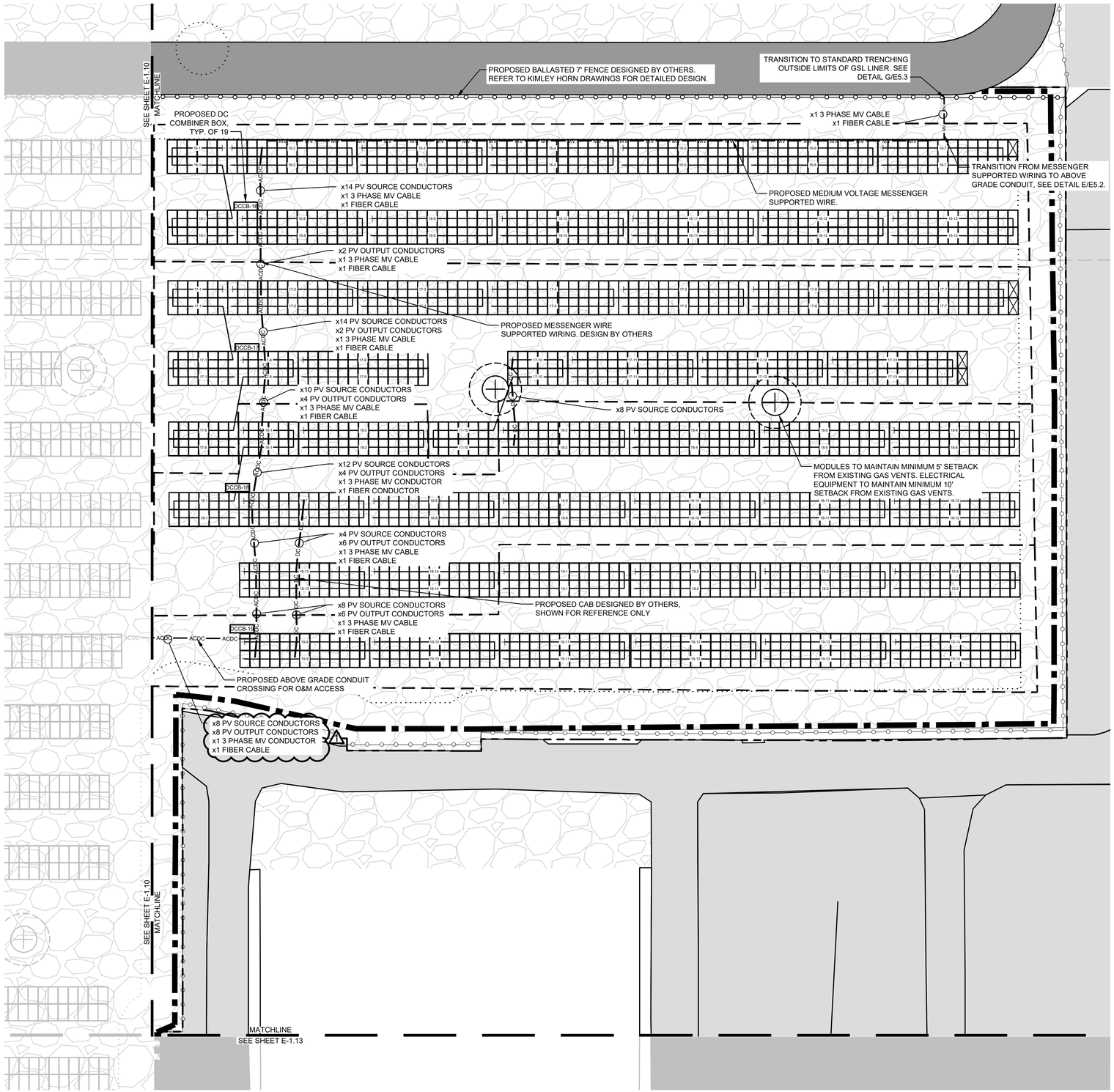
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SCALE	CHECKED BY: TSB, JSC	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.10



COMBINER BOX ZONES - AREA 3

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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- PV MODULE EXCLUSION AREA PER ESCP
- EXISTING/PROPOSED PAVEMENT HATCH
- WS — PROPOSED WEATHER STATION
- X X — MODULE STRING

REV #	DESCRIPTION	DATE	BY
1	LABEL UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 3

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

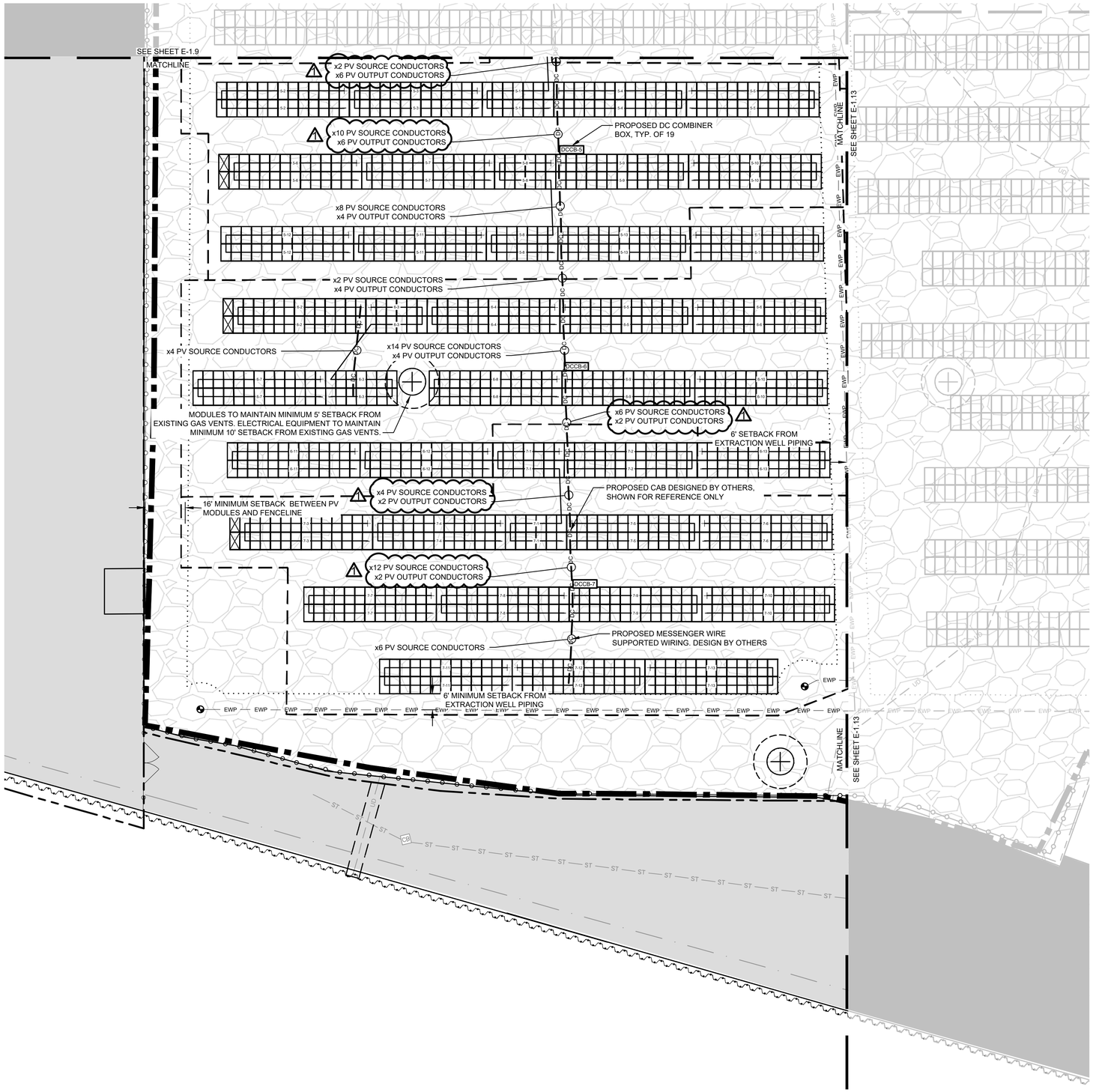
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		CHECKED BY: TSB, JSC	C&A JOB# 5566.03
		APPROVED BY: JSC	DRAWING: E-1.11



COMBINER BOX ZONES - AREA 4

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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- MODULE STRING

REV #	DESCRIPTION	DATE	BY
1	LABEL UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 4

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19890 State Line Road
South Bend, IN 46637

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AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.12



COMBINER BOX ZONES - AREA 5

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

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- EXISTING UNDERDRAIN
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REV #	DESCRIPTION	DATE	BY
1	LAYOUT AND LABEL UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 5

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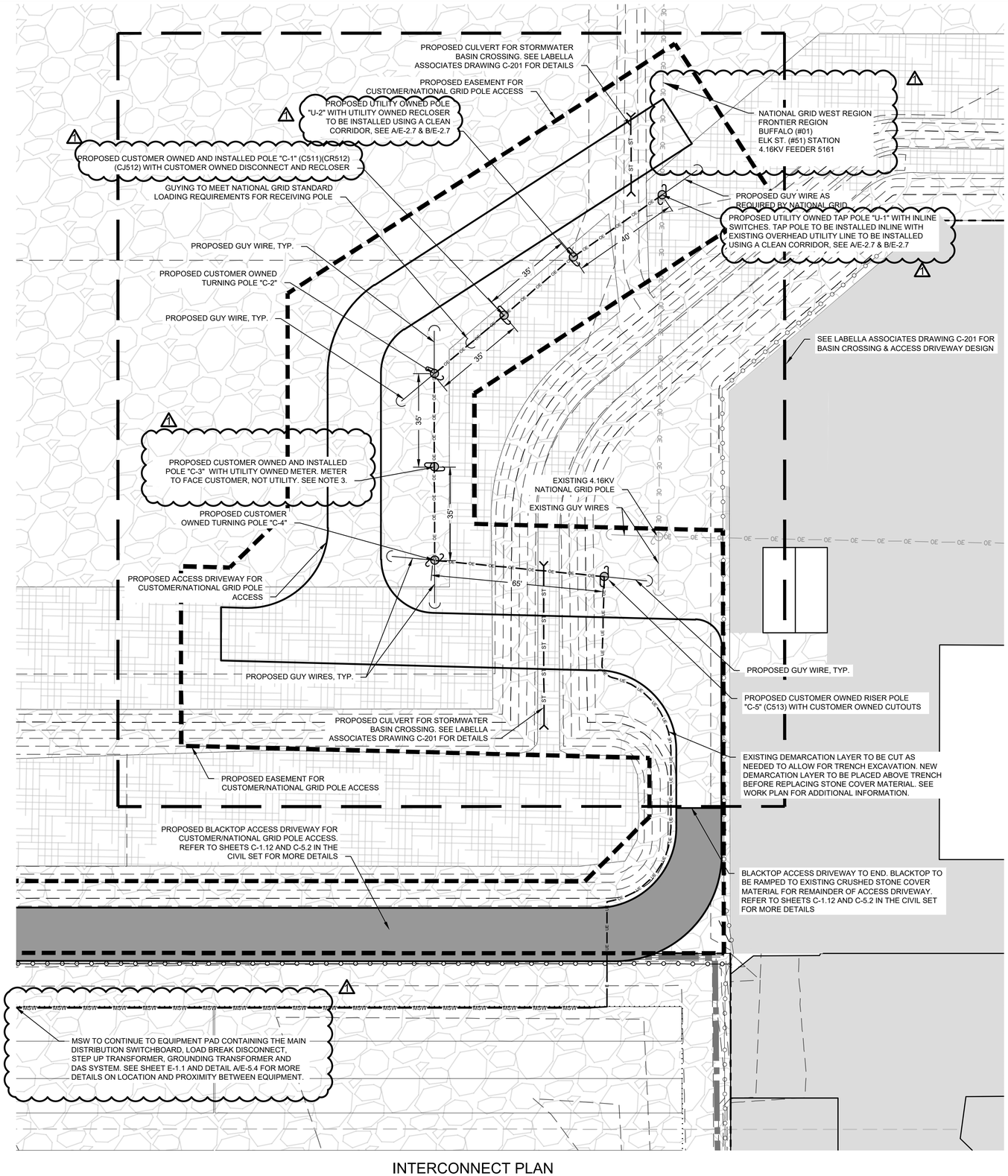
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9/5/2023	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.13



INTERCONNECT PLAN

SCALE: 1"= 20'

DRAWING NOTES:

1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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NOTES:

1. POLE LOCATIONS SHOULD BE STAKED IN FIELD BY A SURVEYOR.
2. POLES "C-1", "C-2", "C-3", "C-4", "C-5" TO BE OWNED AND INSTALLED BY CUSTOMER.
3. METER OWNED AND MAINTAINED BY NATIONAL GRID, METER SOCKET INSTALLED BY CUSTOMER.

LEGEND

- EXISTING CONTOUR .5' INTERVAL (586.5)
- EXISTING CONTOUR 5' INTERVAL (585)
- EXISTING/PROPOSED FENCE
- EXISTING/PROPOSED DRIVEWAY
- EXISTING/PROPOSED OVERHEAD ELECTRIC (OE)
- EXISTING UNDERGROUND ELECTRIC (UE)
- PROPOSED SHALLOW TRENCHING (UE)
- EXISTING/PROPOSED EXTRACTION WELL PIPING (EWP)
- PROPOSED ABOVE GRADE CONDUIT (E)
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED GUY WIRE
- EXTENT OF GSL LINER/EXISTING UNDERDRAIN
- EXISTING BUILDING
- EXISTING PAVEMENT HATCH
- PROPOSED PAVEMENT HATCH
- EXISTING CRUSHED STONE CAP MATERIAL
- EXISTING STORMWATER BASIN
- PROPOSED UTILITY EASEMENT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY
2	DRAWING NOTES UPDATES	3/22/24	JAT
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	ESA

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INTERCONNECT PLAN

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DATE	9/5/2023	DRAWN BY: TSB, JAT, ESA	H:\WORK\5566.02 Elk Street\DWG\5566.02 SITE - ELEC.dwg
SCALE	AS SHOWN	DESIGNED BY: TSB, JAT	C&A JOB# 5566.03
		CHECKED BY: TSB, JSC	DRAWING: E-1.14
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1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
2. EXISTING MONITORING WELL LOCATIONS TAKEN FROM GPS COORDINATES PROVIDED BY LABELLA ASSOCIATES, P.C. THROUGH BQ ENERGY ON JANUARY 12, 2022, AND APPROXIMATED FROM PDF TITLED "GROUNDWATER CONTOURS FIGURE 4" BY LABELLA ASSOCIATES, P.C. DATED MAY 2021.
3. CAB DESIGN AND LOCATION OF PV MODULES TAKEN FROM A REVISED TERRASMART DESIGN PROVIDED TO C&A IN CAD FORMAT ON 03/13/2024. CAB DESIGN LOCATION AND PV ARRAY DIMENSIONS ARE FOR REFERENCE ONLY AND ARE BASED ON THESE CAD FILES. REFER TO TERRASMART DESIGN DRAWINGS FOR EXACT DIMENSIONS.
4. 10 FOOT OFFSET FROM GAS VENTS FOR COMBINER BOXES, INVERTERS AND JUNCTIONS OTHER THAN PV SOURCE STRINGS. 5 FOOT OFFSETS FROM GAS VENTS FOR MODULES.
5. UTILITY EQUIPMENT IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION, AND MAY BE CHANGED BY THE UTILITY AT ANY TIME IN THE FUTURE.

LEGEND

- MSW MSW MSW — PROPOSED MESSENGER SUPPORTED WIRING
- E E E — PROPOSED ABOVE GRADE CONDUIT
- CT CT CT — PROPOSED CABLE TRAY
- PROPOSED EQUIPMENT PAD

EQUIPMENT PAD NOTES:

1. ALL ITEMS, INCLUDING CABLE ROUTING, SUBJECT TO CHANGE PENDING RECEIPT OF SKID LAYOUT DESIGN.

PROPOSED CONCRETE PAD WITH EQUIPMENT SKID CONTAINING MAIN DISTRIBUTION SWITCHBOARD, STEP UP TRANSFORMER, GROUNDING TRANSFORMER, LI FUSED SWITCH AND DAS SYSTEM

PROPOSED ABOVE GRADE CONDUIT CROSSING FOR MEDIUM VOLTAGE OUTPUT FROM LI FUSED SWITCH TO RISER POLE.

PROPOSED ABOVE GRADE CONDUIT CROSSING FOR INVERTERS #10-19 OUTPUT TO SWITCHBOARD.

INVERTERS #10-19

INVERTERS #1-9

PROPOSED ABOVE GRADE CONDUIT CROSSING FOR INVERTERS #1-9 OUTPUT TO SWITCHBOARD.

14'

586.5'

586'

585.5'

WS

EQUIPMENT PAD LAYOUT PLAN

SCALE: 1"= 10'

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

STATE OF NEW YORK — JENNIFER SUZANNE CROUCH — LICENSED PROFESSIONAL ENGINEER — 150555

9/5/2024

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REV #	DESCRIPTION	DATE	BY
1	DRAWING NOTES UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

EQUIPMENT PAD
LAYOUT PLAN

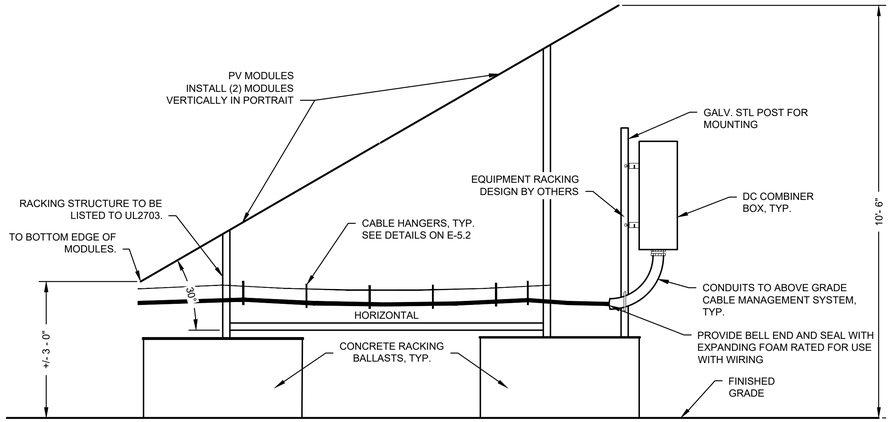
INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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9/5/2023	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.15

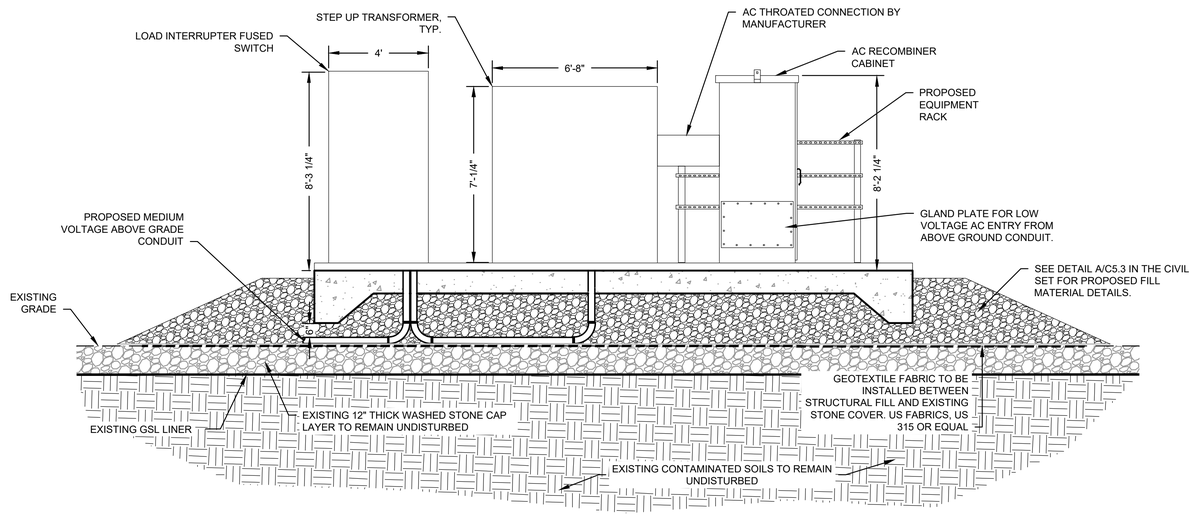


A E2.0 EQUIPMENT MOUNTING DETAIL

NTS

NOTES:

1. DRAWING DOES NOT REFLECT ACTUAL HEIGHT OR DEPTH OF THE RACKING FOUNDATIONS. REFER TO RACKING MANUFACTURER INSTALLATION MANUAL
2. EQUIPMENT SHALL BE MOUNTED SUCH THAT IT DOES NOT CAUSE ANY SHADING OF PV MODULES.
3. RACKING STRUCTURE IS REPRESENTATIVE ONLY
4. REFER TO SCHEDULE FOR CONDUIT SIZES
5. CONDUITS SHALL BE ROUTED SUCH THAT ARRAY FOUNDATIONS ARE AVOIDED.
6. ENCLOSURE SHALL BE MOUNTED SUCH THAT ALL CODE REQUIRED CLEARANCES ARE MET. (REFER TO NEC ARTICLE 110.32)
7. REFER TO RACKING MANUFACTURER MANUAL FOR MORE INFORMATION.
8. EQUIPMENT RACKING DESIGN BY OTHERS

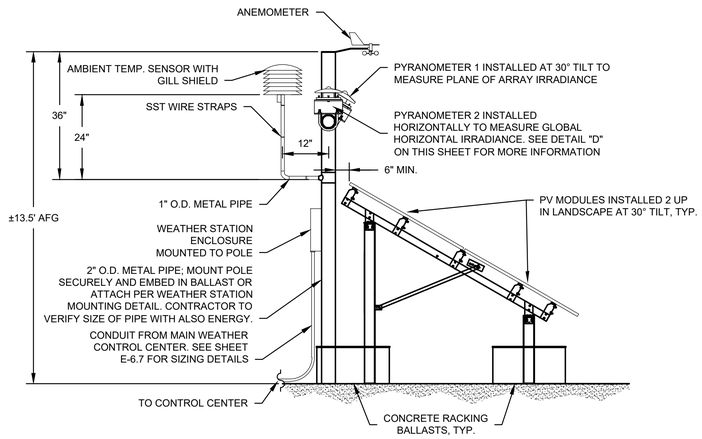


B E2.0 EQUIPMENT PAD ELEVATION VIEW

SCALE: N.T.S.

NOTES:

1. EQUIPMENT LAYOUT IS DIAGRAMMATIC IN NATURE, DETAILED LAYOUT IN E-1.14. LAYOUT SUBJECT TO CHANGE BASED ON SKID DESIGN.
2. SEE DETAIL 1 ON SHEET S500 FROM KIMLEY-HORN STRUCTURAL DRAWINGS FOR DETAILED DESIGN.
3. SEE SHEET E-5.1 FOR GROUNDING RING DETAILS

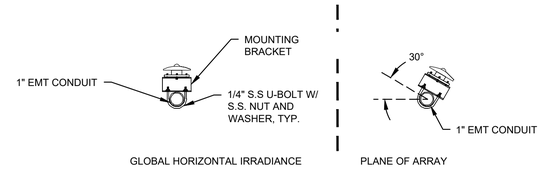


C E2.0 TYPICAL WEATHER STATION SECTION VIEW

SCALE: N.T.S.

NOTES:

1. EQUIPMENT RACKING DESIGN BY OTHERS



D E2.0 PYRANOMETER EAST ELEVATION

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

EQUIPMENT
ELEVATIONS

INOVATEUS SOLAR LLC
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South Bend, IN 46637

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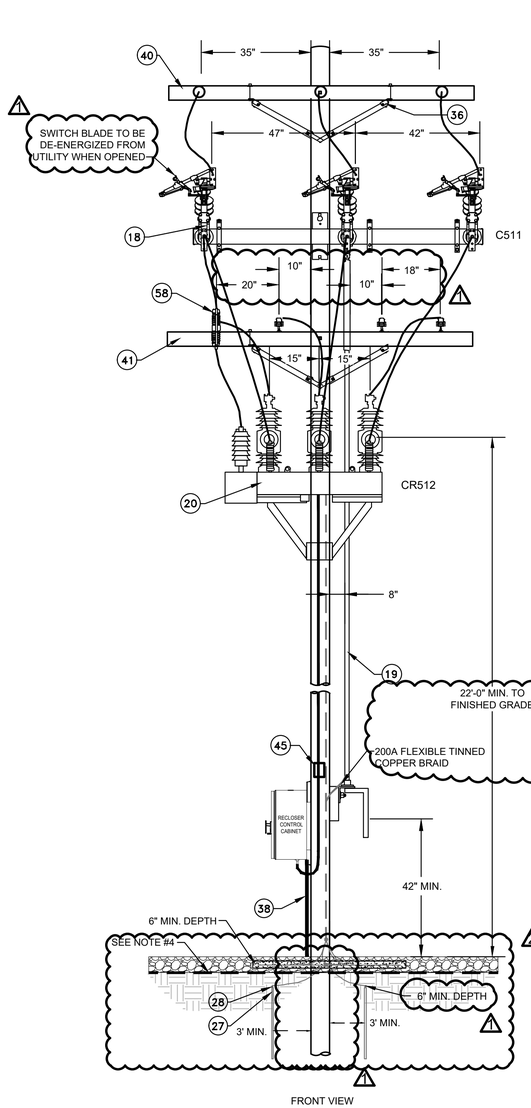
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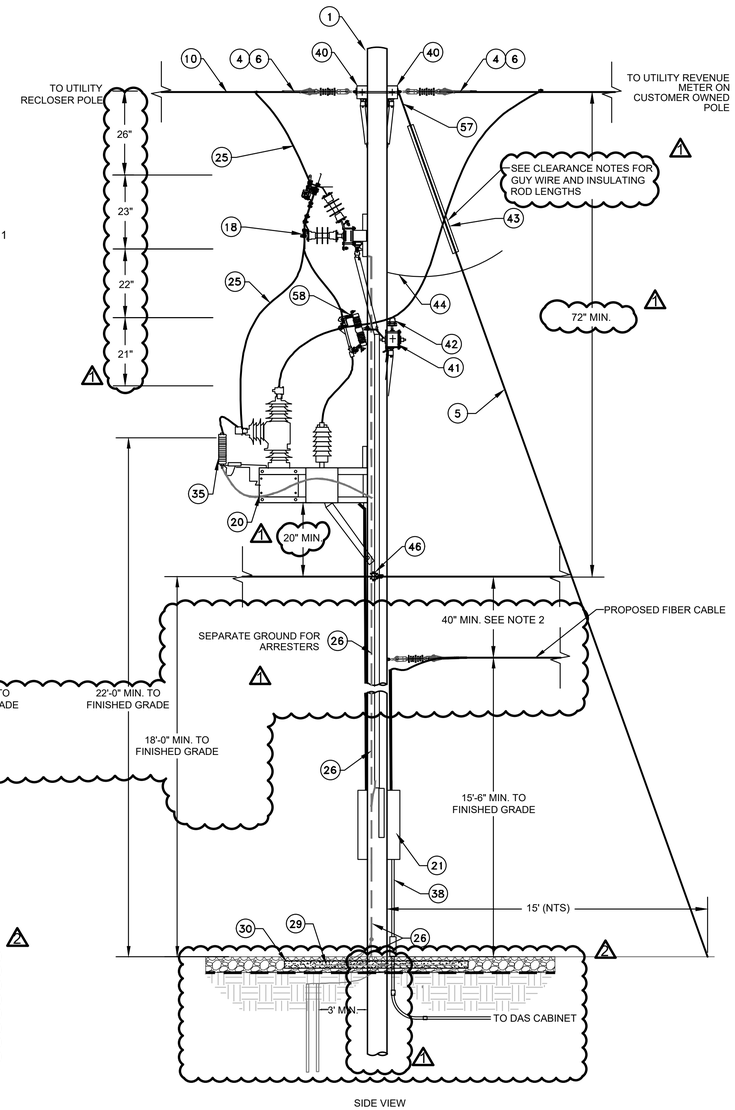
LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — JENNIFER SUZANNE CROCKETT — 100556

9/5/2024

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AS SHOWN	APPROVED BY: JSC	5566.03 / E-2.0



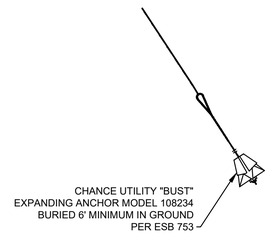


A / E2.1 CUSTOMER OWNED DISCONNECT/RECLOSER POLE (C-1)

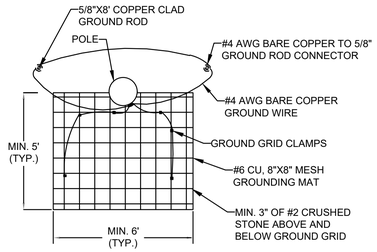
SCALE: N.T.S.

NOTES:

1. POLE DRAWINGS TAKEN FROM UTILITY COORDINATION DRAWING TITLED "INTERCONNECT POLE#1 DISCONNECT / RECLOSER", REVISION NUMBER 1, DATED 10/17/2022 BY IEM ENGINEERING.
2. CONTRACTOR TO PROVIDE AS-BUILT DISTANCES FOR USE IN RECORD DRAWINGS.
3. CUSTOMER TO OWN AND INSTALL POLE.
4. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.



GUY ANCHOR DETAIL



GROUND GRID DETAIL

CLEARANCE NOTES:

1. GUY WIRES SHALL BE 25 FT. MINIMUM LEAD WITH INSULATOR.
2. GUY WIRES SHALL UTILIZE AN INSULATING ROD THAT IS MINIMUM 54" LONG, BUT LONGER IF THERE IS THE POTENTIAL TO COME INTO CONTACT WITH ENERGIZED EQUIPMENT UPON FAILURE OF THE GUY WIRE ANCHOR.
3. THE SECTION OF THE GUY WIRE BELOW THE INSULATING ROD SHALL BE BONDED TO NEUTRAL.
4. CLEARANCE FROM THE INSULATING ROD TO THE PRIMARY CONDUCTOR SHALL BE A MINIMUM OF 6" FOR DOWN GUYS, OR 11" MINIMUM FOR SPAN GUYS.
5. ANCHOR SHALL BE BURIED 6 FT. IN GROUND MINIMUM.

SCHEDULE OF POLE EQUIPMENT

NO.	DESCRIPTION
1	40' SOUTHERN YELLOW PINE CLASS 2 POLE
2	CORRUGATED METAL PIPE - 4' DIAMETER
4	INSULATOR SUSPENSION TYPE 5 KV
5	7/16" HIGH STRENGTH GALV STEEL GUY WIRE
6	STRAIGHT STRAIN DEAD END CLAMP
8	RIGID CONDUIT RISER WITH END FITTING, 5" UNLESS OTHERWISE INDICATED
9	1/C TERMINATION, 15 KV
10	PRIMARY CONDUCTOR
18	SIEMENS SWITCH, 25KV, 150KV BIL, 900A VERTICAL MOUNT
19	SIEMENS SWITCH CONTROL ROD
20	G&W RECLOSER, 15KV WITH 400:1 CTS, VOLTAGE SENSING (X6), EXTERNAL CPT
21	SEL-651R RECLOSER CONTROLLER
24	POTHEAD BRACKET - ALUMA-FORM TB-EMB-13PA
25	SOLID COPPER CONDUCTOR
26	#4 SOLID COPPER
27	5/8" x 8' GROUND ROD
28	GROUND ROD CLAMP
29	8" X 8" COPPER GROUND MESH (5' x 6' GRID)
30	#2 CRUSHED STONE, 6" MIN. DEPTH
35	LIGHTNING ARRESTOR - EATON HEAVY DUTY, 3KV, 2.55MCOV
36	METAL CROSSARM BRACE - 26"
37	3CT / 3PT METER CLUSTER - (BY NATIONAL GRID)
38	1.5" RIGID CONDUIT, LENGTH AS REQD. FOR SECONDARY METERING AND RECLOSER
39	15KV, 600A SINGLE PHASE DISCONNECT
40	DOUBLE 8' WOOD CROSSARM (8' L x 4.25" H x 3.25" W)
41	SINGLE 8' WOOD CROSSARM (8' L x 4.25" H x 3.25" W)
42	STANDOFF INSULATOR, 5KV
43	FIBERGLASS GUY STRAIN INSULATOR, 60" MINIMUM
44	BONDING JUMPER TO GUY WIRE
45	LABEL INDICATING SWITCH DESIGNATION
46	SECONDARY CLEVIS WITH SPOOL INSULATOR
51	1/2" EXTRA HIGH STRENGTH, 7 STRAND GALV. STEEL GUY WIRE
52	1/2" UTILITY GRADE DEAD END FORMED WIRE
53	YELLOW GUY MARKER, 96" LONG
54	EXTRA HIGH STRENGTH STEEL, ALUMOWELD, STRANDVICE (RANGE 0.455"-0.520")
55	CHANCE SS5 SCREW ANCHOR EXTENSIONS (AS REQUIRED)
56	CHANCE SS5 SCREW ANCHOR, 8"-10"-12" HELIX COMBO W/ TWINEYE PULLING EYE OR APPROVED EQUAL (CHANCE CAT #012642AEJ)
57	SINGLE DOWN GUY ASSEMBLY - HEAVY DUTY (THROUGH BOLT)
58	0.5A FUSED CUTOUT

GENERAL NOTES:

1. UTILITY POLES ARE SHOWN AS CONCEPTUAL AND ARE FOR DIAGRAMMATIC PURPOSES ONLY. SCHEDULE ABOVE LISTS THE MAJOR ITEMS OF EQUIPMENT ONLY. ALL OTHER EQUIPMENT NECESSARY FOR PURPOSE INDICATED SHALL BE PROVIDED UNDER THIS CONTRACT.
2. ALL EQUIPMENT AND MATERIALS SHALL BE LISTED FOR THE PURPOSE AND INSTALLED IN ACCORDANCE WITH THE CURRENT VERSION OF THE NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRIC SAFETY CODE.
3. RECLOSER SHALL BE EQUIPPED WITH THREE (3) 400:1 CURRENT TRANSFORMERS AND SIX(6) LOW ENERGY VOLTAGE SENSING DEVICES ON LINE/UTILITY SIDE. CPT TO BE MOUNTED TO RECLOSER FRAME BY VENDOR.
4. RECLOSER CONTROLLER SHALL BE PROVIDED BY RECLOSER MANUFACTURER AND BE EQUIPPED WITH LOW ENERGY ANALOG INPUTS. ALL NECESSARY CABLING SHALL BE PROVIDED BY RECLOSER MANUFACTURER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
5. CONTRACTOR SHALL LEAVE ADEQUATE CONDUCTOR LENGTH PER PHASE FOR UTILITY CONNECTION.
6. CONTRACTOR SHALL INSTALL AND MAKE ALL ELECTRICAL AND COMMUNICATION CONNECTIONS AS SHOWN ON THESE CONTRACT DOCUMENTS.
7. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE CURRENT VERSION OF THE NEC AND ALL LOCAL APPLICABLE CODES AND STANDARDS.
8. THE SWITCH OPERATING HANDLE SHALL BE GROUNDED AND CONNECTED TO A GROUND EQUIPOTENTIAL MAT AT THE BASE OF THE POLE. HANDLE TO BE MOUNTED BETWEEN 3' AND 4' TO GROUND
9. ALL CLEARANCES TO MEET NESC AND NATIONAL GRID 753 SPECIFICATIONS

ESB 753 CLEARANCES (RECOMMENDED / MINIMUM):

BETWEEN LIVE PARTS: 12" / 7"
LIVE PARTS TO GROUND: 8" / 6"
LIVE PARTS TO VEHICULAR TRAFFIC: 22" (N/A)

POLE BURIAL DEPTH

POLE	DEPTH
40'	6'-0"
45'	6'-6"
50'	7'-0"
55'	7'-6"

REV #	DESCRIPTION	DATE	BY
2	UPDATES PER DEC COMMENTS	3/22/24	JAT
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

UTILITY POLE ELEVATIONS - SHEET 1

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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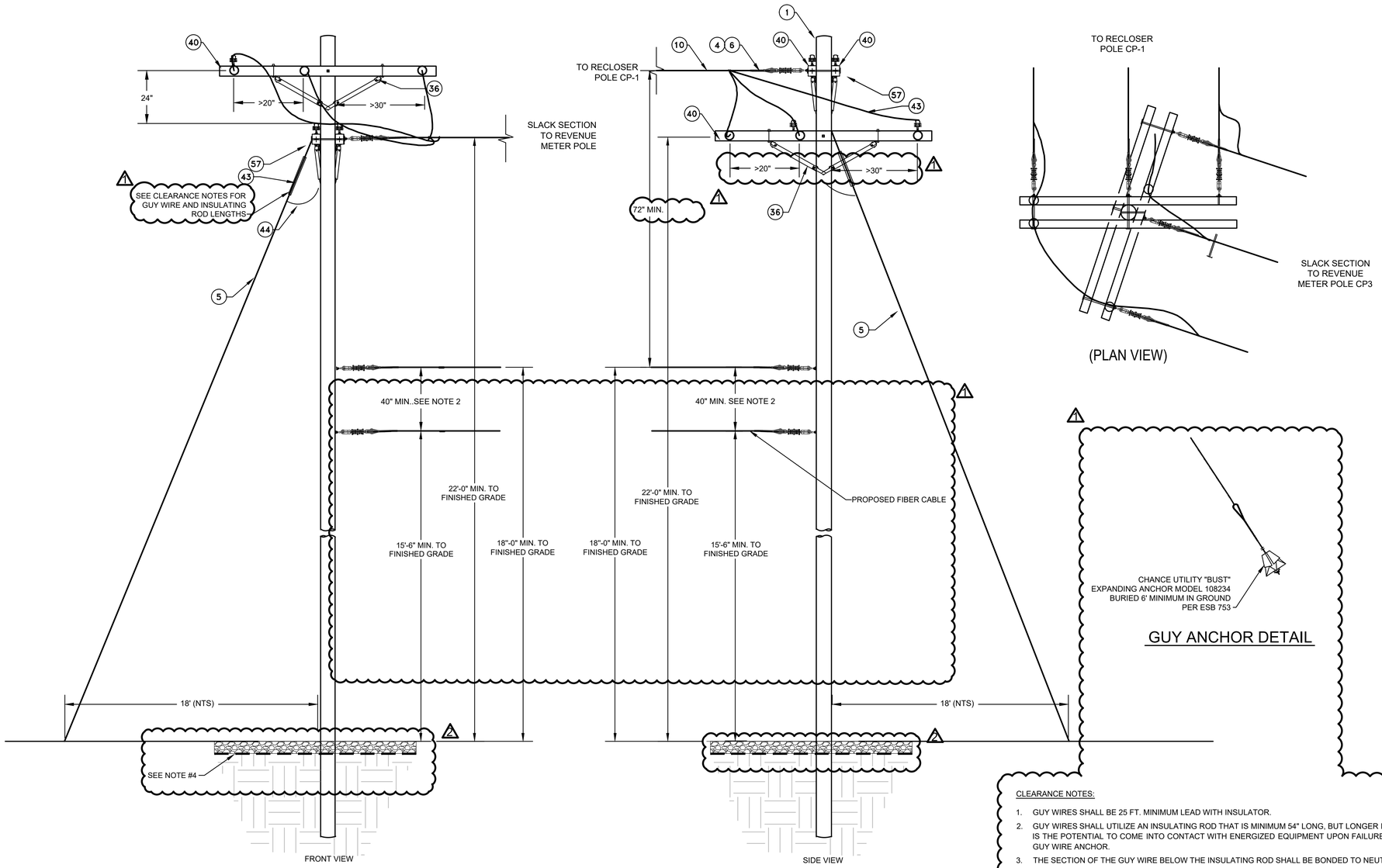
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LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE CRAWFORD — 150556 — STATE OF NEW YORK

3/22/2024

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9/5/2023	DESIGNED BY:	JAT	
SCALE	CHECKED BY:	JSC	C&A JOB#: 5566.03
AS SHOWN	APPROVED BY:	JSC	DRAWING: E-2.1



A E2.2 CUSTOMER TURNING POLE (C-2)

SCALE: N.T.S.

NOTES:
1. POLE DRAWINGS TAKEN FROM UTILITY COORDINATION DRAWING TITLED "INTERCONNECT CP#2 TURNING POLE", REVISION NUMBER 1, DATED 10/17/2022 BY JEM ENGINEERING.
2. CONTRACTOR TO PROVIDE AS-BUILT DISTANCES FOR USE IN RECORD DRAWINGS.
3. CUSTOMER TO OWN AND INSTALL POLE.
4. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.

(PLAN VIEW)

GUY ANCHOR DETAIL

CLEARANCE NOTES:
1. GUY WIRES SHALL BE 25 FT. MINIMUM LEAD WITH INSULATOR.
2. GUY WIRES SHALL UTILIZE AN INSULATING ROD THAT IS MINIMUM 54" LONG, BUT LONGER IF THERE IS THE POTENTIAL TO COME INTO CONTACT WITH ENERGIZED EQUIPMENT UPON FAILURE OF THE GUY WIRE ANCHOR.
3. THE SECTION OF THE GUY WIRE BELOW THE INSULATING ROD SHALL BE BONDED TO NEUTRAL.
4. CLEARANCE FROM THE INSULATING ROD TO THE PRIMARY CONDUCTOR SHALL BE A MINIMUM OF 6" FOR DOWN GUYS, OR 11" MINIMUM FOR SPAN GUYS.
5. ANCHOR SHALL BE BURIED 6 FT. IN GROUND MINIMUM.

SCHEDULE OF POLE EQUIPMENT

NO.	DESCRIPTION
1	40' SOUTHERN YELLOW PINE CLASS 2 POLE
2	CORRUGATED METAL PIPE - 4' DIAMETER
4	INSULATOR SUSPENSION TYPE 5 KV
5	7/16" HIGH STRENGTH GALV STEEL GUY WIRE
6	STRAIGHT STRAIN DEAD END CLAMP
8	RIGID CONDUIT RISER WITH END FITTING, 5" UNLESS OTHERWISE INDICATED
9	1/C TERMINATION, 15 KV
10	PRIMARY CONDUCTOR
18	SIEMENS SWITCH, 25KV, 150KV BIL, 900A VERTICAL MOUNT
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37	3CT / 3PT METER CLUSTER - (BY NATIONAL GRID)
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39	15KV, 600A SINGLE PHASE DISCONNECT
40	DOUBLE 8' WOOD CROSSARM (8' L x 4.25" H x 3.25" W)
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46	SECONDARY CLEVIS WITH SPOOL INSULATOR
51	1/2" EXTRA HIGH STRENGTH, 7 STRAND GALV. STEEL GUY WIRE
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56	CHANCE SS5 SCREW ANCHOR, 8"-10"-12" HELIX COMBO W/ TWINEYE PULLING EYE OR APPROVED EQUAL (CHANCE CAT #012642AEJ)
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1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

UTILITY POLE ELEVATIONS - SHEET 2

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

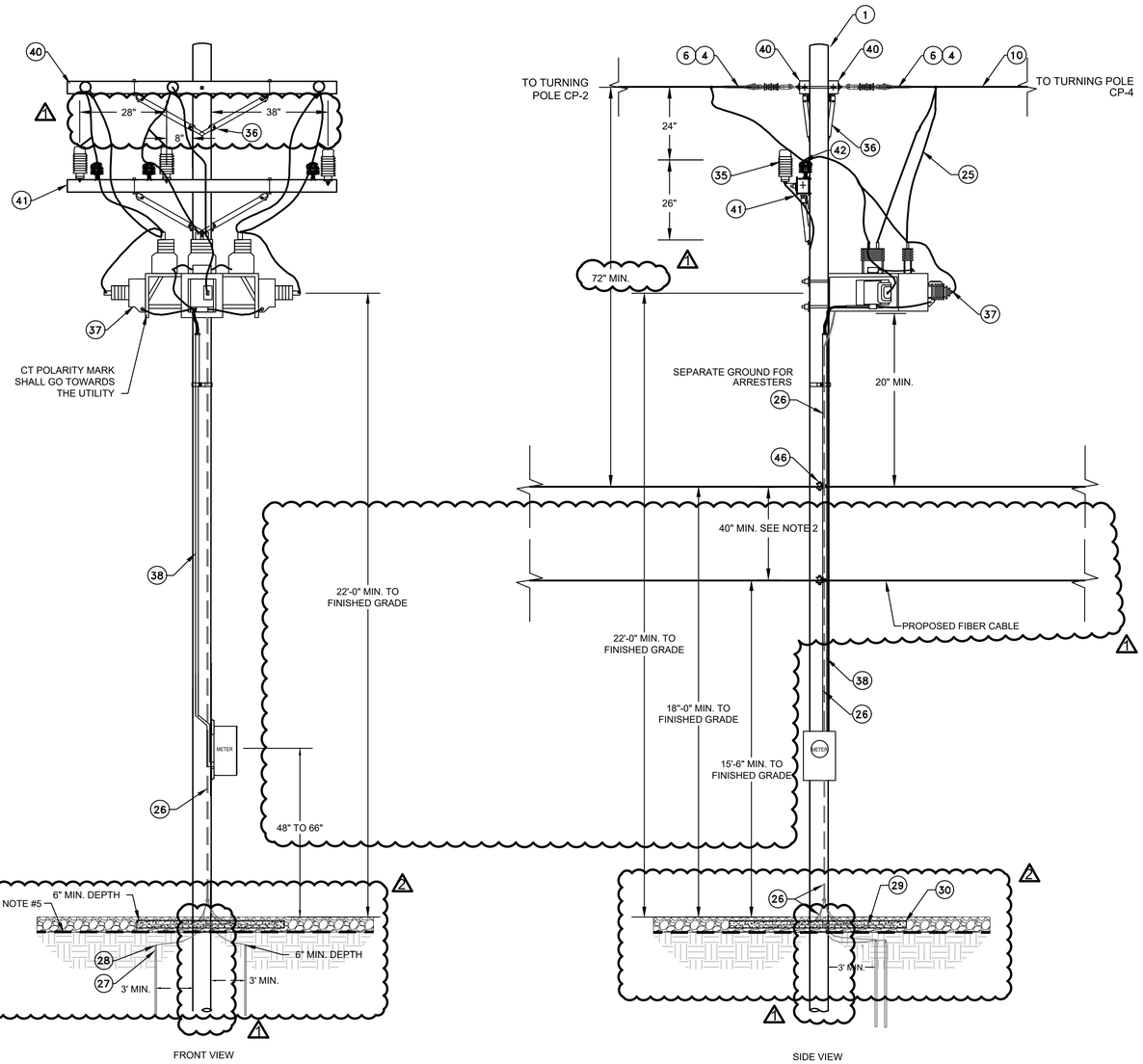
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9/5/2024

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9/5/2023	DESIGNED BY: JAT	
SCALE	CHECKED BY: JSC	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: JSC	DRAWING: E-2.2

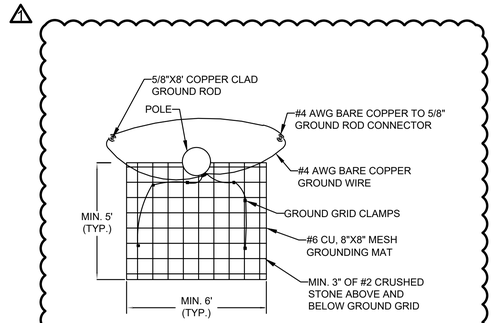


A E2.3 CUSTOMER OWNED POLE WITH UTILITY OWNED METER (C-3)

SCALE: N.T.S.

NOTES:

1. POLE DRAWINGS TAKEN FROM UTILITY COORDINATION DRAWING TITLED "INTERCONNECT CP#3 REVENUE METER", REVISION NUMBER 1, DATED 10/17/2022 BY JEM ENGINEERING.
2. CONTRACTOR TO PROVIDE AS-BUILT DISTANCES FOR USE IN RECORD DRAWINGS.
3. METER OWNED AND MAINTAINED BY NATIONAL GRID, METER SOCKET INSTALLED BY CUSTOMER.
4. CUSTOMER TO OWN AND INSTALL POLE.
5. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.



GROUND GRID DETAIL

SCHEDULE OF POLE EQUIPMENT

NO.	DESCRIPTION
1	40' SOUTHERN YELLOW PINE CLASS 2 POLE
2	CORRUGATED METAL PIPE - 4' DIAMETER
4	INSULATOR SUSPENSION TYPE 5 KV
5	7/16" HIGH STRENGTH GALV STEEL GUY WIRE
6	STRAIGHT STRAIN DEAD END CLAMP
8	RIGID CONDUIT RISER WITH END FITTING, 5" UNLESS OTHERWISE INDICATED
9	1/C TERMINATION, 15 KV
10	PRIMARY CONDUCTOR
18	SIEMENS SWITCH, 25KV, 150KV BIL, 900A VERTICAL MOUNT
19	SIEMENS SWITCH CONTROL ROD
20	G&W RECLOSER, 15KV WITH 400:1 CTS, VOLTAGE SENSING (X6), EXTERNAL CPT
21	SEL-651R RECLOSER CONTROLLER
24	POTHEAD BRACKET - ALUMA-FORM TB-EMB-13PA
25	SOLID COPPER CONDUCTOR
26	#4 SOLID COPPER
27	5/8" x 8' GROUND ROD
28	GROUND ROD CLAMP
29	8" X 8" COPPER GROUND MESH (5' x 6' GRID)
30	#2 CRUSHED STONE, 6" MIN. DEPTH
35	LIGHTNING ARRESTOR - EATON HEAVY DUTY, 3KV, 2.55MCOV
36	METAL CROSSARM BRACE - 26"
37	3CT / 3PT METER CLUSTER - (BY NATIONAL GRID)
38	1.5" RIGID CONDUIT, LENGTH AS REQD. FOR SECONDARY METERING AND RECLOSER
39	15KV, 600A SINGLE PHASE DISCONNECT
40	DOUBLE 8' WOOD CROSSARM (8' L x 4.25" H x 3.25" W)
41	SINGLE 8' WOOD CROSSARM (8' L x 4.25" H x 3.25" W)
42	STANDOFF INSULATOR, 5KV
43	FIBERGLASS GUY STRAIN INSULATOR, 60" MINIMUM
44	BONDING JUMPER TO GUY WIRE
45	LABEL INDICATING SWITCH DESIGNATION
46	SECONDARY CLEVIS WITH SPOOL INSULATOR
51	1/2" EXTRA HIGH STRENGTH, 7 STRAND GALV. STEEL GUY WIRE
52	1/2" UTILITY GRADE DEAD END FORMED WIRE
53	YELLOW GUY MARKER, 96" LONG
54	EXTRA HIGH STRENGTH STEEL, ALUMOWELD, STRANDVICE (RANGE 0.455"-0.520")
55	CHANCE SS5 SCREW ANCHOR EXTENSIONS (AS REQUIRED)
56	CHANCE SS5 SCREW ANCHOR, 8"-10"-12" HELIX COMBO W/ TWINEYE PULLING EYE OR APPROVED EQUAL (CHANCE CAT #012642AEJ)
57	SINGLE DOWN GUY ASSEMBLY - HEAVY DUTY (THROUGH BOLT)
58	0.5A FUSED CUTOUT

GENERAL NOTES:

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2. ALL EQUIPMENT AND MATERIALS SHALL BE LISTED FOR THE PURPOSE AND INSTALLED IN ACCORDANCE WITH THE CURRENT VERSION OF THE NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRIC SAFETY CODE.
3. RECLOSER SHALL BE EQUIPPED WITH THREE (3) 400:1 CURRENT TRANSFORMERS AND SIX(6) LOW ENERGY VOLTAGE SENSING DEVICES ON LINE/UTILITY SIDE. CPT TO BE MOUNTED TO RECLOSER FRAME BY VENDOR.
4. RECLOSER CONTROLLER SHALL BE PROVIDED BY RECLOSER MANUFACTURER AND BE EQUIPPED WITH LOW ENERGY ANALOG INPUTS. ALL NECESSARY CABLING SHALL BE PROVIDED BY RECLOSER MANUFACTURER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
5. CONTRACTOR SHALL LEAVE ADEQUATE CONDUCTOR LENGTH PER PHASE FOR UTILITY CONNECTION.
6. CONTRACTOR SHALL INSTALL AND MAKE ALL ELECTRICAL AND COMMUNICATION CONNECTIONS AS SHOWN ON THESE CONTRACT DOCUMENTS.
7. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE CURRENT VERSION OF THE NEC AND ALL LOCAL APPLICABLE CODES AND STANDARDS.
8. THE SWITCH OPERATING HANDLE SHALL BE GROUNDED AND CONNECTED TO A GROUND EQUIPOTENTIAL MAT AT THE BASE OF THE POLE. HANDLE TO BE MOUNTED BETWEEN 3' AND 4' TO GROUND
9. ALL CLEARANCES TO MEET NESC AND NATIONAL GRID 753 SPECIFICATIONS

ESB 753 CLEARANCES (RECOMMENDED / MINIMUM):
BETWEEN LIVE PARTS: 12" / 7"
LIVE PARTS TO GROUND: 8" / 6"
LIVE PARTS TO VEHICULAR TRAFFIC: 22" (N/A)

POLE BURIAL DEPTH

POLE	DEPTH
40'	6'-0"
45'	6'-6"
50'	7'-0"
55'	7'-6"

REV #	DESCRIPTION	DATE	BY
2	UPDATES PER DEC COMMENTS	3/22/24	JAT
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

UTILITY POLE ELEVATIONS - SHEET 3

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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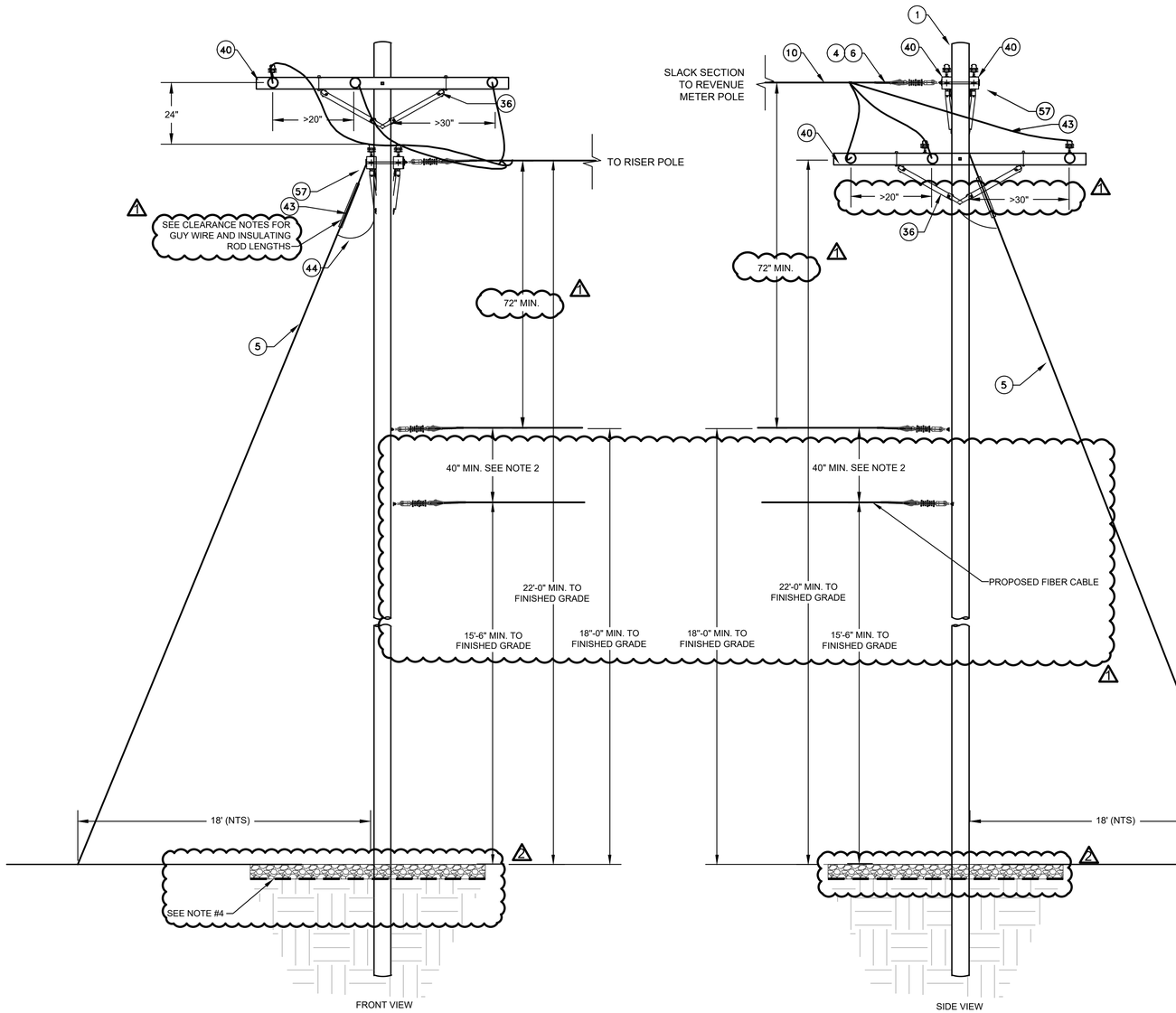
JENNIFER SUZANNE GRANCHELLI — LICENSED PROFESSIONAL ENGINEER — 150556 — STATE OF NEW YORK — 3/22/2024

DATE	9/5/2023	DRAWN BY:	JAT
SCALE	AS SHOWN	DESIGNED BY:	JAT
		CHECKED BY:	JSC
		APPROVED BY:	JSC

H:\WORK\5566.02 Elk Street\DWG\5566.02 DETAILS.dwg

C&A JOB#: 5566.03

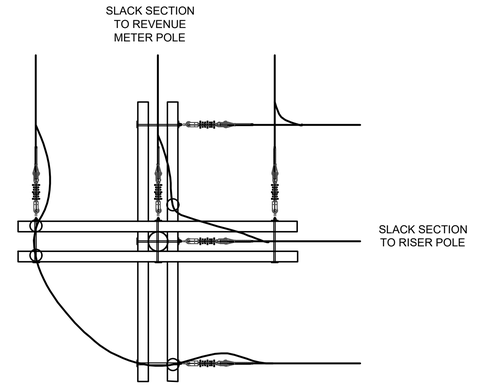
DRAWING: E-2.3



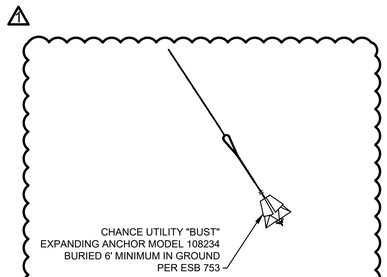
A
E2.4
CUSTOMER TURNING POLE (C-4)

SCALE: N.T.S.

NOTES:
1. POLE DRAWINGS TAKEN FROM UTILITY COORDINATION DRAWING TITLED "INTERCONNECT POLE#4 TURNING POLE", REVISION NUMBER 1, DATED 10/17/2022 BY JEM ENGINEERING.
2. CONTRACTOR TO PROVIDE AS-BUILT DISTANCES FOR USE IN RECORD DRAWINGS.
3. CUSTOMER TO OWN AND INSTALL POLE.
4. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.



(PLAN VIEW)



GUY ANCHOR DETAIL

CLEARANCE NOTES:
1. GUY WIRES SHALL BE 25 FT. MINIMUM LEAD WITH INSULATOR.
2. GUY WIRES SHALL UTILIZE AN INSULATING ROD THAT IS MINIMUM 54" LONG, BUT LONGER IF THERE IS THE POTENTIAL TO COME INTO CONTACT WITH ENERGIZED EQUIPMENT UPON FAILURE OF THE GUY WIRE ANCHOR.
3. THE SECTION OF THE GUY WIRE BELOW THE INSULATING ROD SHALL BE BONDED TO NEUTRAL.
4. CLEARANCE FROM THE INSULATING ROD TO THE PRIMARY CONDUCTOR SHALL BE A MINIMUM OF 6" FOR DOWN GUYS, OR 11" MINIMUM FOR SPAN GUYS.
5. ANCHOR SHALL BE BURIED 6 FT. IN GROUND MINIMUM.

SCHEDULE OF POLE EQUIPMENT

NO.	DESCRIPTION
1	40' SOUTHERN YELLOW PINE CLASS 2 POLE
2	CORRUGATED METAL PIPE - 4' DIAMETER
4	INSULATOR SUSPENSION TYPE 5 KV
5	7/16" HIGH STRENGTH GALV STEEL GUY WIRE
6	STRAIGHT STRAIN DEAD END CLAMP
8	RIGID CONDUIT RISER WITH END FITTING, 5" UNLESS OTHERWISE INDICATED
9	1/C TERMINATION, 15 KV
10	PRIMARY CONDUCTOR
18	SIEMENS SWITCH, 25KV, 150KV BIL, 900A VERTICAL MOUNT
19	SIEMENS SWITCH CONTROL ROD
20	G&W RECLOSER, 15KV WITH 400:1 CTS, VOLTAGE SENSING (X6), EXTERNAL CPT
21	SEL-651R RECLOSER CONTROLLER
24	POTHEAD BRACKET - ALUMA-FORM TB-EMB-13PA
25	SOLID COPPER CONDUCTOR
26	#4 SOLID COPPER
27	5/8" x 8' GROUND ROD
28	GROUND ROD CLAMP
29	8" X 8" COPPER GROUND MESH (5' x 6' GRID)
30	#2 CRUSHED STONE, 6" MIN. DEPTH
35	LIGHTNING ARRESTOR - EATON HEAVY DUTY, 3KV, 2.55MCOV
36	METAL CROSSARM BRACE - 26"
37	3CT / 3PT METER CLUSTER - (BY NATIONAL GRID)
38	1.5" RIGID CONDUIT, LENGTH AS REQD. FOR SECONDARY METERING AND RECLOSER
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45	LABEL INDICATING SWITCH DESIGNATION
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51	1/2" EXTRA HIGH STRENGTH, 7 STRAND GALV. STEEL GUY WIRE
52	1/2" UTILITY GRADE DEAD END FORMED WIRE
53	YELLOW GUY MARKER, 96" LONG
54	EXTRA HIGH STRENGTH STEEL, ALUMOWELD, STRANDVICE (RANGE 0.455"-0.520")
55	CHANCE SS5 SCREW ANCHOR EXTENSIONS (AS REQUIRED)
56	CHANCE SS5 SCREW ANCHOR, 8"-10"-12" HELIX COMBO W/ TWINEYE PULLING EYE OR APPROVED EQUAL (CHANCE CAT #012642AEJ)
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4. RECLOSER CONTROLLER SHALL BE PROVIDED BY RECLOSER MANUFACTURER AND BE EQUIPPED WITH LOW ENERGY ANALOG INPUTS. ALL NECESSARY CABLING SHALL BE PROVIDED BY RECLOSER MANUFACTURER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
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8. THE SWITCH OPERATING HANDLE SHALL BE GROUNDED AND CONNECTED TO A GROUND EQUIPOTENTIAL MAT AT THE BASE OF THE POLE. HANDLE TO BE MOUNTED BETWEEN 3' AND 4' TO GROUND
9. ALL CLEARANCES TO MEET NESC AND NATIONAL GRID 753 SPECIFICATIONS

ESB 753 CLEARANCES (RECOMMENDED / MINIMUM):
BETWEEN LIVE PARTS: 12" / 7"
LIVE PARTS TO GROUND: 8" / 6"
LIVE PARTS TO VEHICULAR TRAFFIC: 22" (N/A)

POLE BURIAL DEPTH

POLE	DEPTH
40'	6'-0"
45'	6'-6"
50'	7'-0"
55'	7'-6"

REV #	DESCRIPTION	DATE	BY
2	UPDATES PER DEC COMMENTS	3/22/24	JAT
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
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CITY OF BUFFALO — ERIE COUNTY, NY

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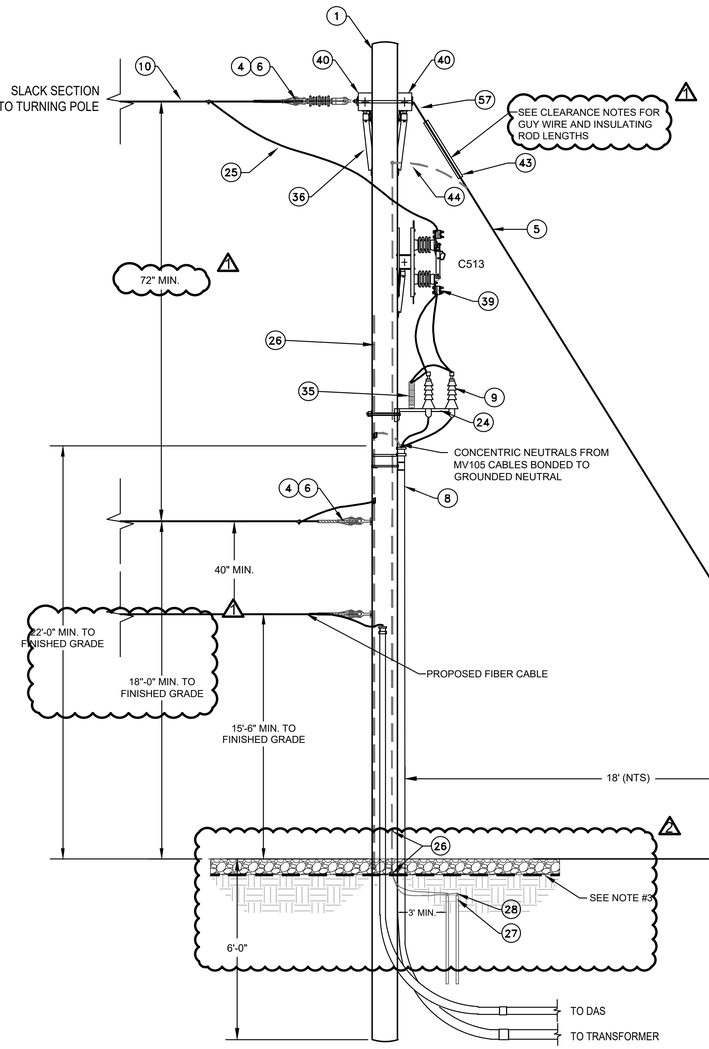
STATE OF NEW YORK — JENNIFER SUZANNE CROWLEY — LICENSED PROFESSIONAL ENGINEER — 150556
9/5/2024

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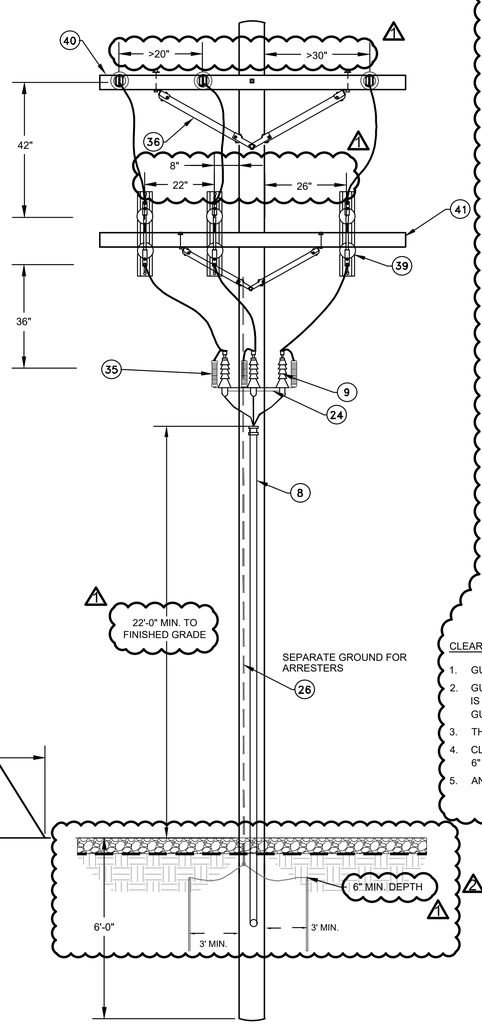
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SCALE	AS SHOWN	DESIGNED BY:	JAT
		CHECKED BY:	JSC
		APPROVED BY:	JSC

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C&A JOB#	DRAWING:
5566.03	E-2.4



FRONT VIEW

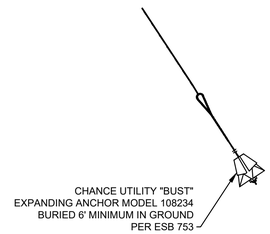


SIDE VIEW

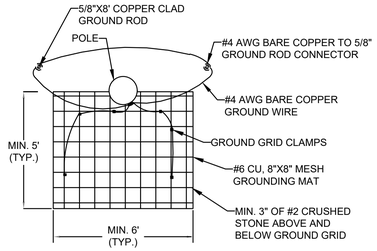
A E2.5 CUSTOMER OWNED RISER POLE (C-5)

SCALE: N.T.S.

NOTES:
1. POLE DRAWINGS TAKEN FROM UTILITY COORDINATION DRAWING TITLED "INTERCONNECT POLE#5 RISER POLE", REVISION NUMBER 1, DATED 10/17/2022 BY JEM ENGINEERING.
2. CUSTOMER TO OWN AND INSTALL POLE.
3. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.



GUY ANCHOR DETAIL



GROUND GRID DETAIL

CLEARANCE NOTES:

1. GUY WIRES SHALL BE 25 FT. MINIMUM LEAD WITH INSULATOR.
2. GUY WIRES SHALL UTILIZE AN INSULATING ROD THAT IS MINIMUM 54" LONG, BUT LONGER IF THERE IS THE POTENTIAL TO COME INTO CONTACT WITH ENERGIZED EQUIPMENT UPON FAILURE OF THE GUY WIRE ANCHOR.
3. THE SECTION OF THE GUY WIRE BELOW THE INSULATING ROD SHALL BE BONDED TO NEUTRAL.
4. CLEARANCE FROM THE INSULATING ROD TO THE PRIMARY CONDUCTOR SHALL BE A MINIMUM OF 6" FOR DOWN GUYS, OR 11" MINIMUM FOR SPAN GUYS.
5. ANCHOR SHALL BE BURIED 6 FT. IN GROUND MINIMUM.

SCHEDULE OF POLE EQUIPMENT

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LIVE PARTS TO GROUND: 8" / 6"
LIVE PARTS TO VEHICULAR TRAFFIC: 22" (N/A)

POLE BURIAL DEPTH

POLE	DEPTH
40'	6'-0"
45'	6'-6"
50'	7'-0"
55'	7'-6"

REV #	DESCRIPTION	DATE	BY
2	UPDATES PER DEC COMMENTS	3/22/24	JAT
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

UTILITY POLE ELEVATIONS - SHEET 5

INOVATEUS SOLAR LLC
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STATE OF NEW YORK — JENNIFER SUZANNE CROUTER — 110566 — LICENSED PROFESSIONAL ENGINEER
5/22/2024

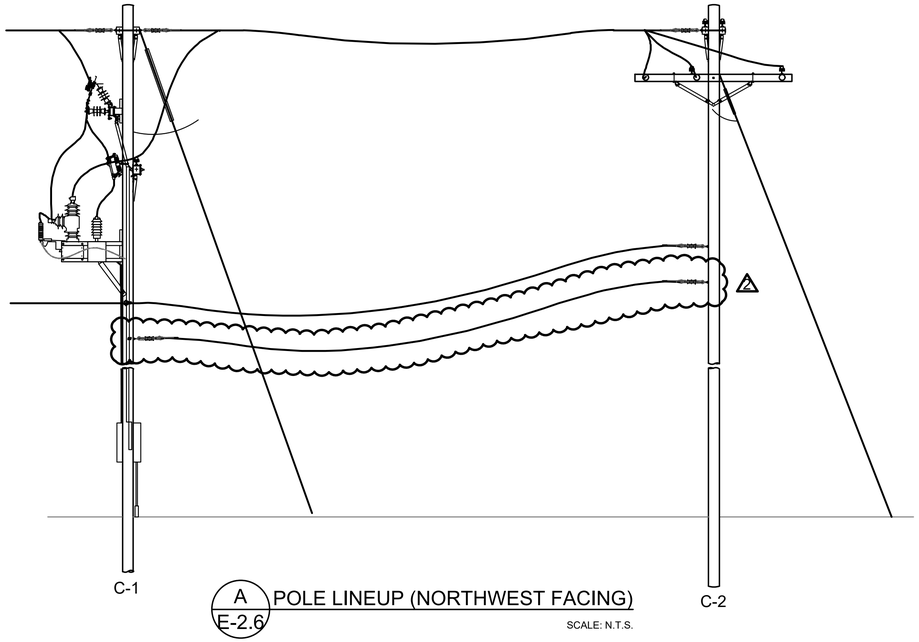
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DATE	9/5/2023
SCALE	AS SHOWN
DRAWN BY:	JAT
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CHECKED BY:	JSC
APPROVED BY:	JSC

N:\WORK\5566.02 Elk Street\DWG\5566.02 DETAILS.dwg

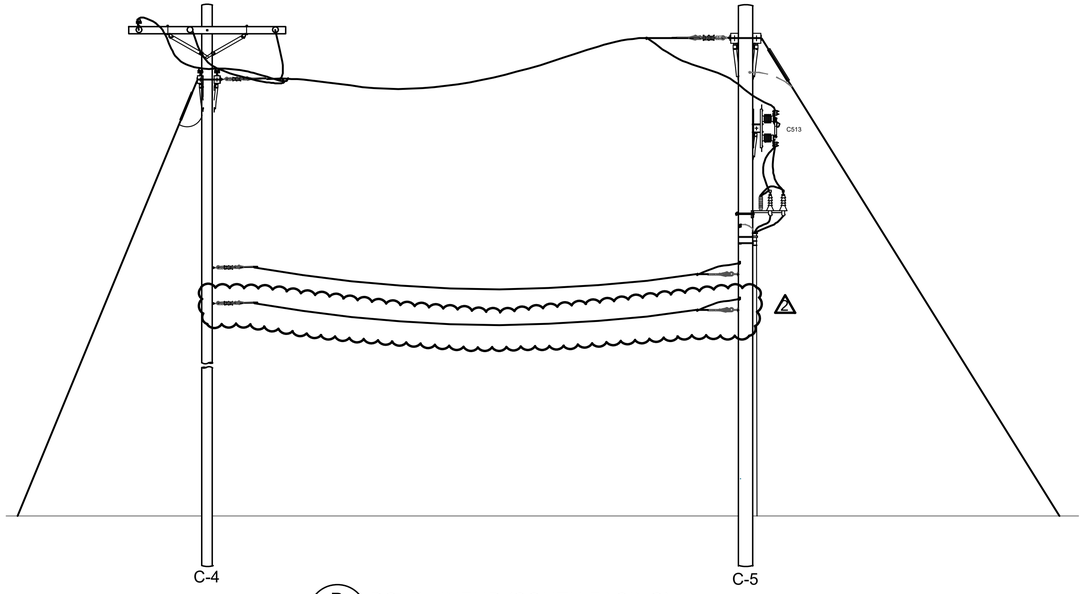
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DRAWING: E-2.5



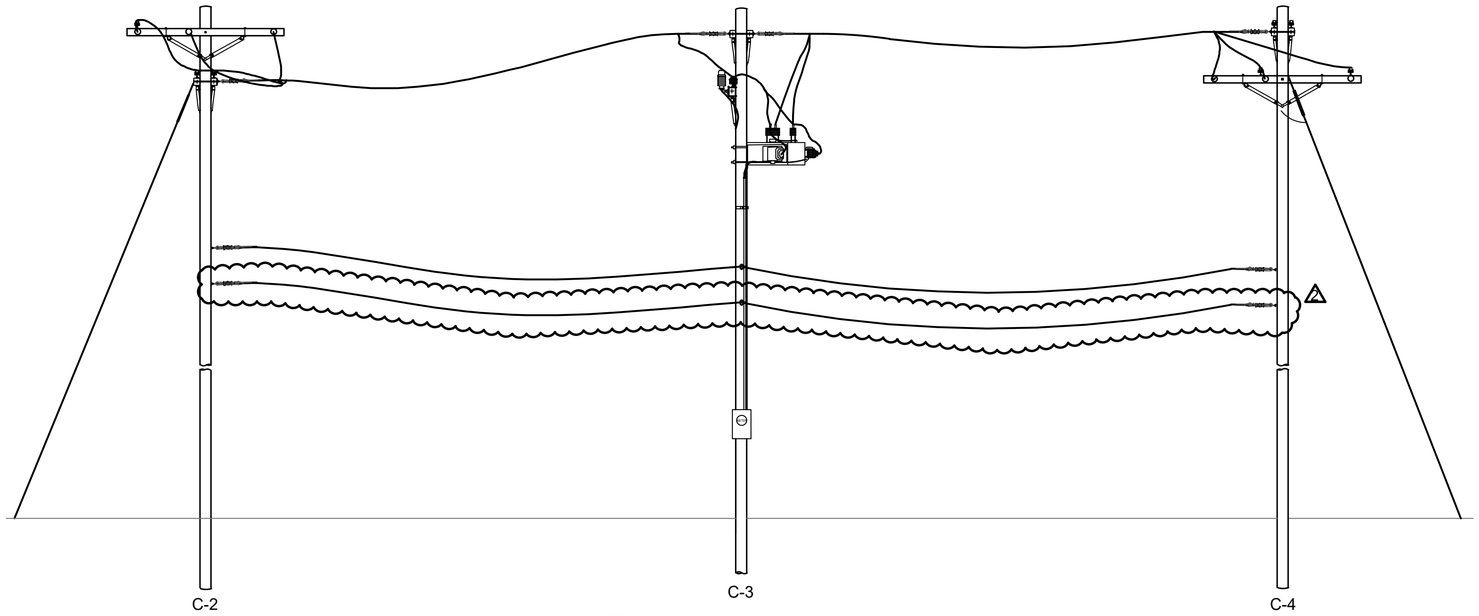
A E-2.6 POLE LINEUP (NORTHWEST FACING)

SCALE: N.T.S.



B E-2.6 POLE LINEUP (SOUTH FACING)

SCALE: N.T.S.



C E-2.6 POLE LINEUP (WEST FACING)

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
2	OVERHEAD COMMUNICATION CABLE UPDATE	3/22/24	JAT
1	SHEET TITLE UPDATE	9/7/23	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

UTILITY POLE ELEVATIONS - SHEET 6

1

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

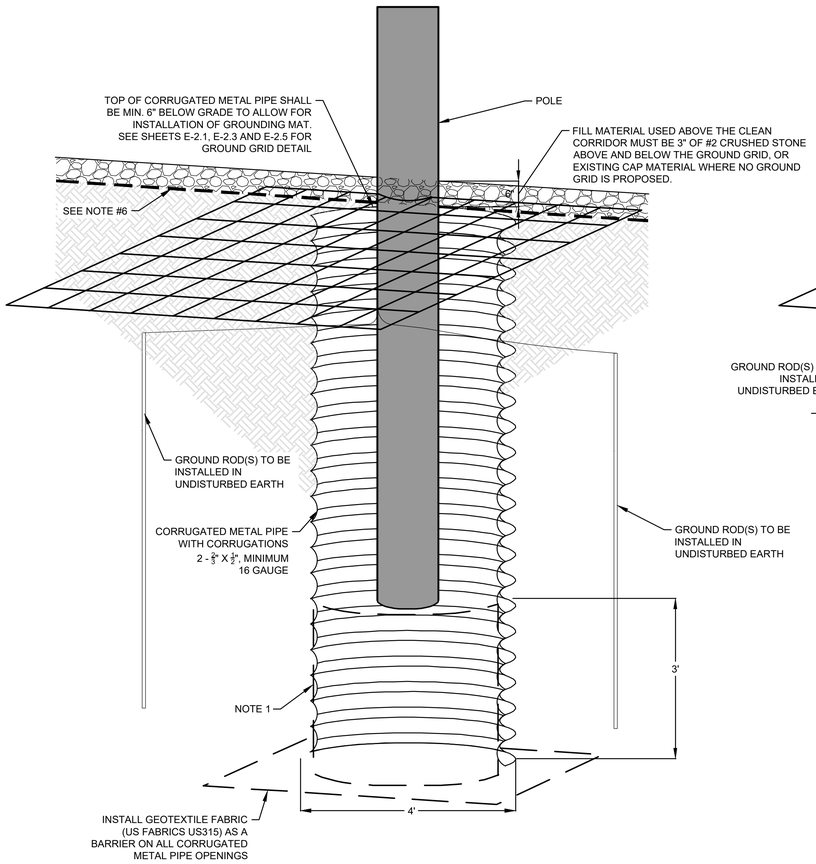
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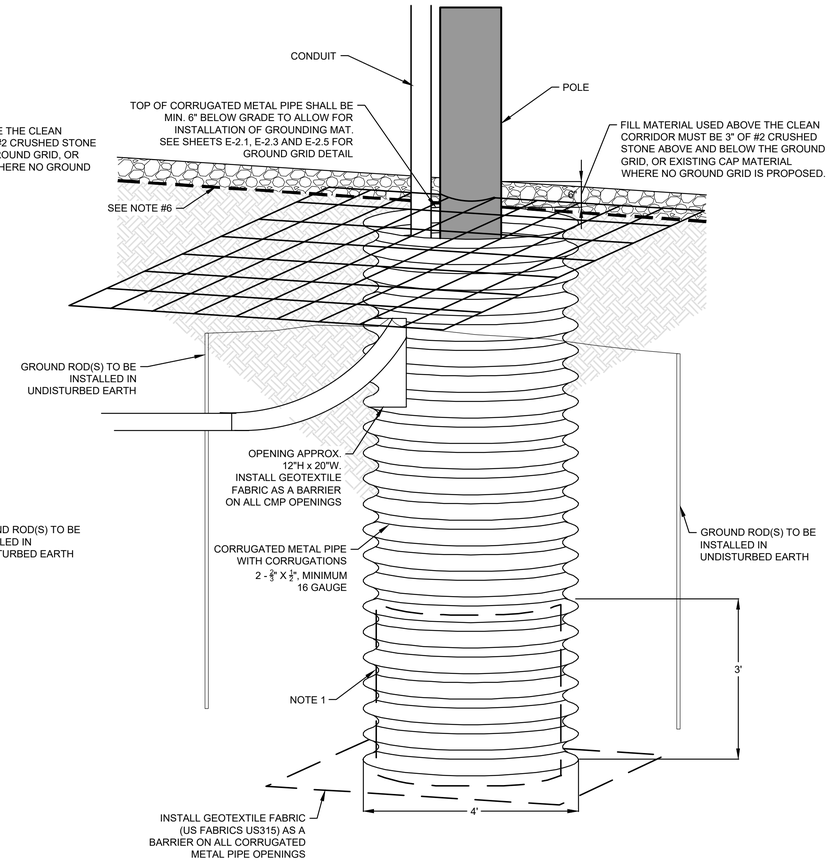
LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE CRAWFORD — STATE OF NEW YORK — 100556

9/7/2024

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

DATE: 9/5/2023	DRAWN BY: JAT	N:\WORK\5566.02 Elk Street\DWG\5566.02 DETAILS.dwg
SCALE: AS SHOWN	DESIGNED BY: JAT	
	CHECKED BY: JSC	C&A JOB#: 5566.03
	APPROVED BY: JSC	DRAWING: E-2.6





A E-2.7 CLEAN CORRIDOR DETAIL

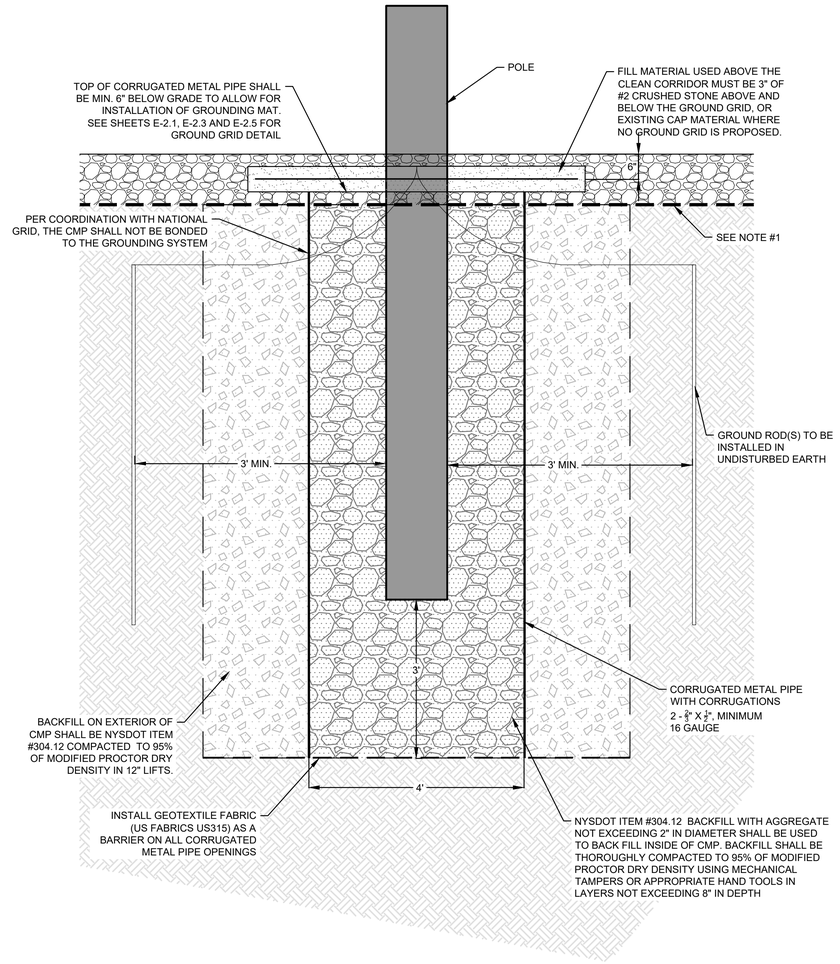
SCALE: N.T.S.

NOTES:

1. NYSDOT ITEM #304.12 BACKFILL WITH AGGREGATE NOT EXCEEDING 2" IN DIAMETER SHALL BE USED TO BACK FILL POLES. BACKFILL SHALL BE THOROUGHLY COMPACTED TO 95% OF MODIFIED PROCTOR DRY DENSITY USING MECHANICAL TAMPERS OR APPROPRIATE HAND TOOLS IN LAYERS NOT EXCEEDING 8" IN DEPTH.
2. UTILITY CREWS TO INSTALL POLE AND CONNECT TO GROUNDING ALREADY INSTALLED WITH CORRUGATED PIPE, GEOTEXTILE BARRIER AND NYSDOT ITEM #304.12 COMPACTED IN 8" LIFTS.
3. BACKFILL SHALL BE NYSDOT ITEM #304.12 COMPACTED IN 12" LIFTS.
4. CORRUGATED STEEL PIPE SHALL BE FREE OF ALL BURRS AND JAGGED EDGES IN ORDER TO REDUCE THE RISK OF CUTTING INJURIES DURING HANDLING. CORRUGATED PIPE SHALL BE FITTED WITH EDGE TRIM SUCH AS NEOPRENE RUBBER TO COVER BURRS AND JAGGED EDGES.
5. GROUND MATS INSTALLED ABOVE CORRUGATED METAL PIPES SHALL BE LEFT EXPOSED AND BLOCKED OFF WITH CAUTION TAPE FOR AUDIT, THEN COVERED AS NECESSARY. GROUND MAT SHALL BE INSTALLED AFTER THE POLE IS INSTALLED.
6. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION

CORRUGATED METAL PIPE DEPTH TABLE	
POLE	DEPTH
40'	9'-0"
45'	9'-6"
50'	10'-0"
55'	10'-6"

NOTE:
1. CLEAN CORRIDOR TO BE USED ON ALL UTILITY OWNED AND INSTALLED POLES, "U-1" AND "U-2"



B E-2.7 CLEAN CORRIDOR PROFILE VIEW

SCALE: N.T.S.

NOTES:

1. EXISTING DEMARCATION LAYER TO BE CUT AS NEEDED TO ALLOW FOR POLE INSTALLATION. NEW DEMARCATION LAYER TO BE PLACED AROUND POLE DURING BACKFILL PRIOR TO REPLACING STONE COVER MATERIAL. SEE WORK PLAN FOR ADDITIONAL INFORMATION.

REV #	DESCRIPTION	DATE	BY
1	SHEET ADDED PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

UTILITY POLE ELEVATIONS - SHEET 7

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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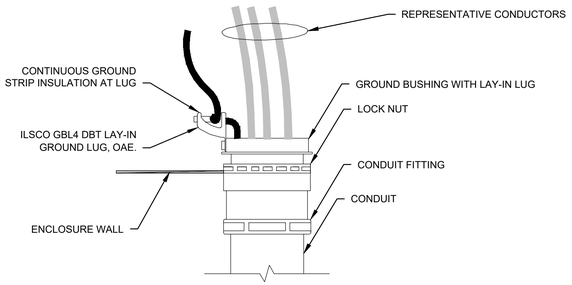
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STATE OF NEW YORK — JENNIFER SUZANNE CRAWFORD — LICENSED PROFESSIONAL ENGINEER — 110556

3/5/2024

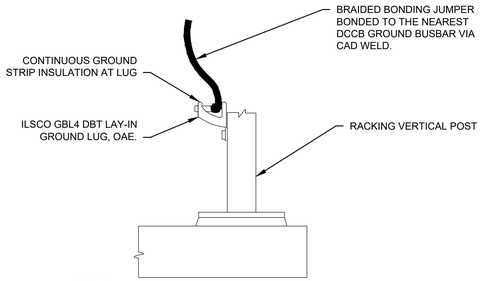
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DESIGNED BY:	JAT
CHECKED BY:	JSC
APPROVED BY:	JSC
H:\WORK\5566.02 Elk Street\DWG\5566.02 DETAILS.dwg	
C&A JOB#	5566.03
DRAWING:	E-2.7



A E5.0 CONDUIT GROUNDING DETAIL

SCALE: N.T.S.

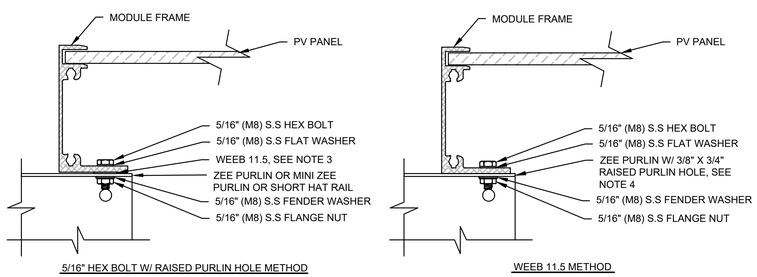


NOTES:

1. REMOVE ANY PAINT OR COATINGS TO ENSURE ADEQUATE ELECTRICAL CONTACT

C E5.0 RACKING GROUNDING

SCALE: N.T.S.

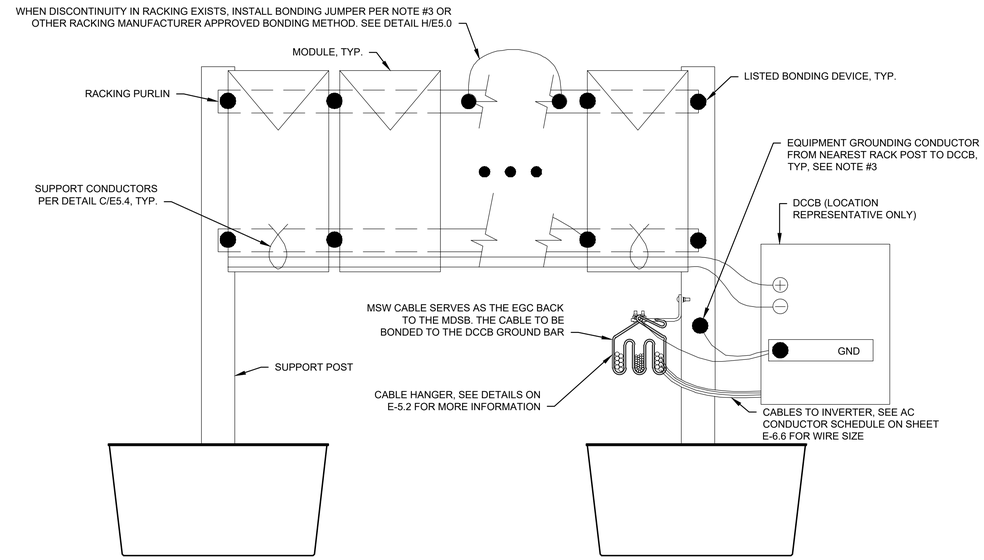


NOTES:

1. DRILLING A HOLE OR ALTERING THE MODULE FRAME IN ANY WAY MAY INVALIDATE THE MODULE WARRANTY.
2. "5/16" HEX BOLT W/ RAISED PURLIN HOLE" AND "WEEB 11.5" ARE UL 2703 APPROVED BONDING METHODS FOR VSUN545-144BMH-DG MODULES PER THE RBI GLIDE WAVE INSTALLATION GUIDE.
3. WEEB 11.5 REQUIRED IN 1 OF 4 PV MODULE MOUNTING HOLE LOCATIONS.
4. RAISED PURLIN HOLES TYPICALLY IN 2 OF 4 PV MODULE MOUNTING HOLE LOCATIONS, BUT ONLY REQUIRED IN 1. ZEE PURLINS WITHOUT RAISED PURLIN HOLES MAY BE USED FOR THE REMAINING MOUNTING HOLE LOCATIONS.

E E5.0 MODULE GROUNDING DETAIL

SCALE: N.T.S.

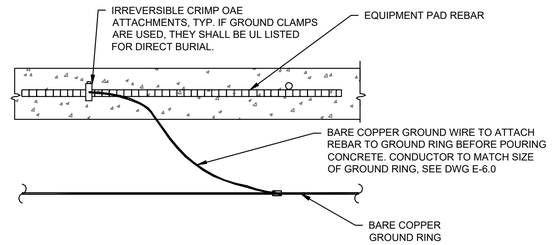


NOTES:

1. ALL EXPOSED CURRENT CARRYING METAL LIKELY TO BECOME ENERGIZED SHALL BE GROUNDED PER NEC690.43
2. ALL LUGS USED FOR BONDING SHALL BE RATED FOR DIRECT BURIAL AND LISTED FOR THE PURPOSE OF BONDING.
3. ARRAY EGC SHALL BE PROTECTED FROM PHYSICAL DAMAGE PER NEC 250.120(C). IF EGC IS SUBJECT TO PHYSICAL DAMAGE, USE #6 AWG MIN. OR INSTALL EGC IN A CONDUIT. IF INSTALLED IN CONDUIT, REFER TO CONDUCTOR SCHEDULE FOR SIZE. WHERE INSTALLED IN CONDUIT, AT LEAST ONE EGC IS REQUIRED WITHIN EACH CONDUIT.
4. MODULE GROUNDING REPRESENTATIVE. REFER TO RACKING MANUFACTURER INSTALLATION MANUAL FOR MORE INFORMATION.

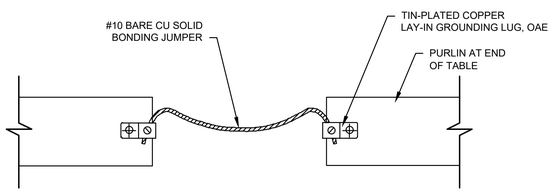
F E5.0 GROUND MOUNT MODULE GROUNDING

SCALE: N.T.S.



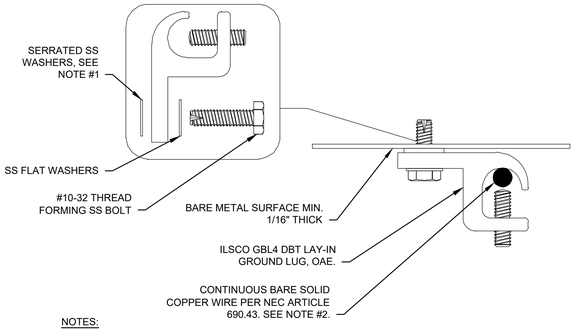
G E5.0 GROUND RING-PAD BONDING

SCALE: N.T.S.



H E5.0 RACKING STRUCTURE ADJACENT TABLE BONDING CONNECTION

SCALE: N.T.S.

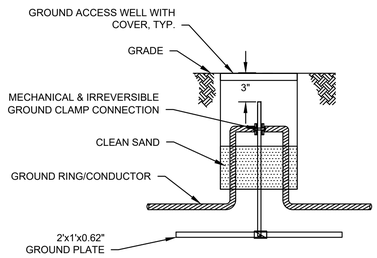


NOTES:

1. BARE METAL OR GALVANIZED SURFACES DO NOT REQUIRE ADDITIONAL STAR WASHER
2. ARRAY EGC SHALL BE PROTECTED FROM PHYSICAL DAMAGE PER NEC 250.120(C). IF EGC IS SUBJECT TO PHYSICAL DAMAGE, USE #6 AWG MIN.

B E5.0 EQUIPMENT GROUNDING

SCALE: N.T.S.



D E5.0 GROUND TEST WELL

SCALE: N.T.S.

NOTES:

1. SEE DETAIL A/E5.1 FOR MORE INSTALLATION DETAILS.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

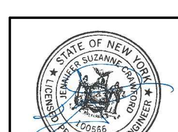
CITY OF BUFFALO — ERIE COUNTY, NY

GROUNDING DETAILS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

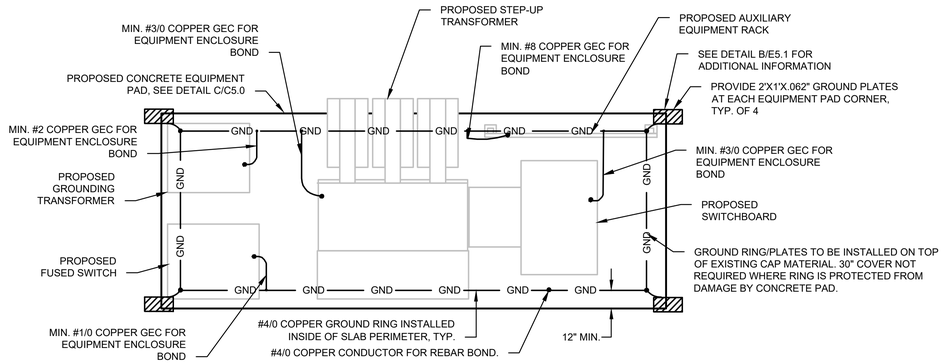
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5/9/2024

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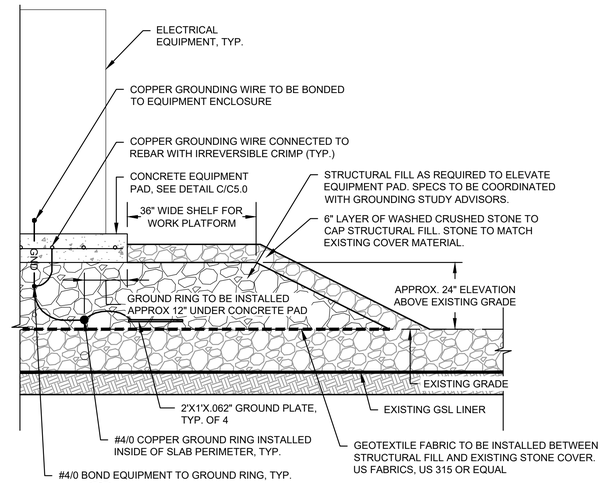
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9/5/2023	DESIGNED BY: TSB	
SCALE	CHECKED BY: JSC	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: JSC	DRAWING: E-5.0



A E5.1 GROUND RING DETAIL

SCALE: N.T.S.

NOTES:
1. EQUIPMENT LAYOUT IN THIS DETAIL IS REPRESENTATIVE ONLY AND IS SUBJECT TO CHANGE BASED ON SKID DESIGN. REFER TO DETAIL A/E5.4 FOR EQUIPMENT PAD LAYOUT.
2. GROUND RING/PLATES TO BE INSTALLED ON TOP OF EXISTING CAP MATERIAL.
3. GROUNDING RESISTANCE IS TO BE 5 OHMS OR LESS.
4. IF GROUNDING RESISTANCE VALUES CANNOT BE OBTAINED, INSTALL ADDITIONAL GROUNDING ELECTRODES AND RE-TEST.
5. GROUNDING RODS MAY NOT BE USED AS THEY WILL DAMAGE THE EXISTING GSL LINER.
6. EXTREME CAUTION MUST BE TAKEN TO ENSURE GROUND RING AND/OR ELECTRODES DO NOT PUNCTURE THE GSL LINER.
7. ALL UNDERGROUND CONDUCTOR TERMINATIONS AND SPLICES SHALL BE IRREVERSIBLY CRIMPED, AND CONNECTORS SHALL BE LISTED FOR USE IN GROUNDING SYSTEMS RATED FOR DIRECT BURIAL.
8. EQUIPMENT PAD GROUNDING DESIGN PENDING FINALIZATION OF GROUNDING STUDY.



B E5.1 GROUND RING TRENCHING DETAIL

SCALE: N.T.S.

NOTES:
1. GROUND RING/PLATES TO BE INSTALLED ON TOP OF EXISTING CAP MATERIAL.
2. GROUNDING RESISTANCE IS TO BE 5 OHMS OR LESS. GROUNDING RESISTANCE TO BE MEASURED AND RECORDED BEFORE CONCRETE EQUIPMENT PAD IS POURED.
3. IF GROUNDING RESISTANCE VALUES CANNOT BE OBTAINED, INSTALL ADDITIONAL GROUNDING ELECTRODES AND RE-TEST.
4. GROUNDING RODS MAY NOT BE USED AS THEY WILL DAMAGE THE EXISTING GSL LINER.
5. EXTREME CAUTION MUST BE TAKEN TO ENSURE GROUND RING AND/OR ELECTRODES DO NOT PUNCTURE THE GSL LINER.
6. NO EXCAVATION SHALL OCCUR ABOVE THE GSL LINER UNLESS SPECIFICALLY NOTED IN THIS DRAWING SET.
8. EQUIPMENT PAD GROUNDING DESIGN PENDING FINALIZATION OF GROUNDING STUDY.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

GROUNDING RING DETAILS

INOVATEUS SOLAR LLC
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9/5/2024

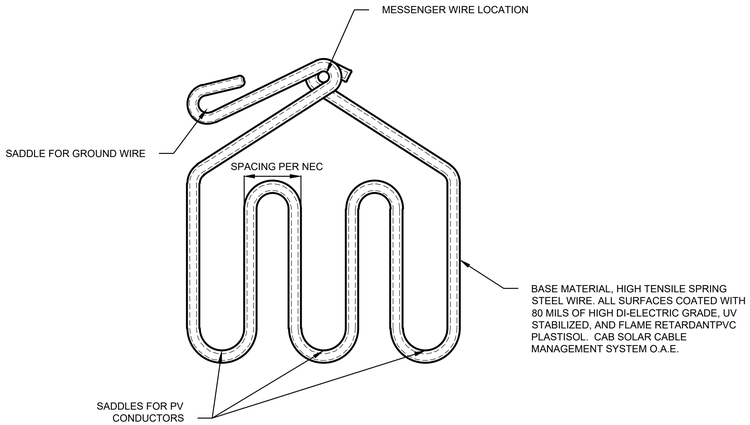
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		CHECKED BY:	JSC
		APPROVED BY:	JSC

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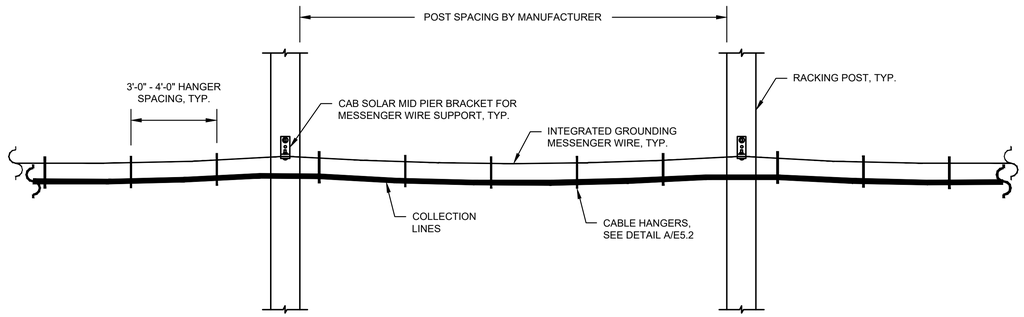
DRAWING: E-5.1



A E5.2 MSW HANGER, TYP.

SCALE: N.T.S.

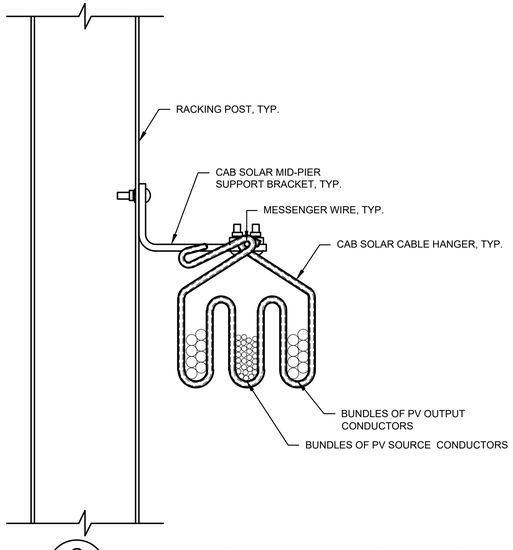
NOTE:
1. DETAIL PROVIDED BY CAMBRIA COUNTY ASSOCIATION FOR THE BLIND AND HANDICAPPED (CAB SOLAR), AND MODIFIED BY CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, PC.



B E5.2 TYPICAL MESSENGER SUPPORTED WIRING (MSW) DETAIL

SCALE: N.T.S.

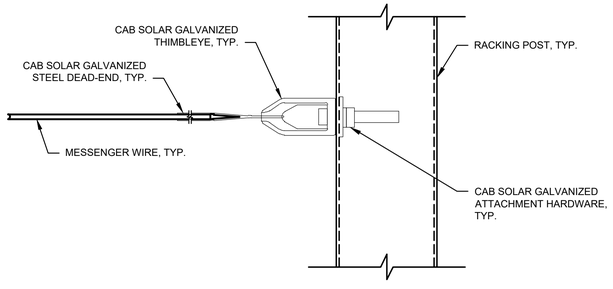
NOTE:
1. DETAIL FOR PATENTED SOLAR CABLE MANAGEMENT SYSTEM PROVIDED BY CAMBRIA COUNTY ASSOCIATION FOR THE BLIND AND HANDICAPPED (CAB SOLAR), AND MODIFIED FOR PRESENTATION BY CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, PC.
2. MESSENGER SUPPORTED WIRING TO COMPLY WITH NYSERDA GUIDELINES. MIN. HEIGHT ABOVE GRADE TBD PENDING FINAL RESOLUTION.



C E5.2 MSW HANGER CROSS SECTION DETAIL

SCALE: N.T.S.

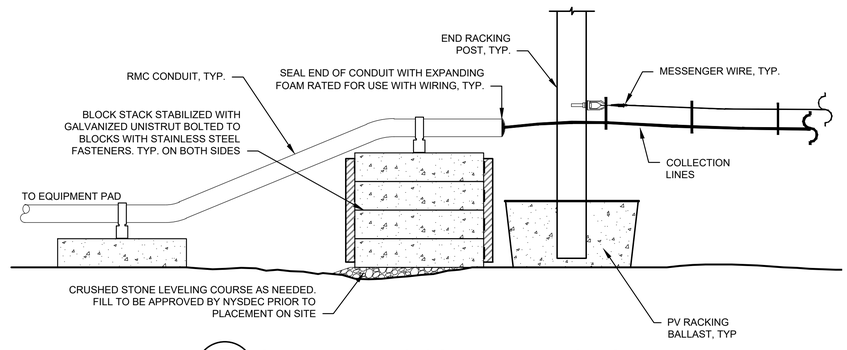
NOTE:
1. DETAIL PROVIDED BY CAMBRIA COUNTY ASSOCIATION FOR THE BLIND AND HANDICAPPED (CAB SOLAR), AND MODIFIED BY CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, PC.
2. BUNDLED CONDUCTORS TO BE SIZED IN ACCORDANCE WITH THERMAL AMPACITY LIMITS AS REQUIRED BY NEC. CONDUCTOR SIZE AND GROUPING TO BE REVIEWED BY EOR PRIOR TO CONSTRUCTION.



D E5.2 MSW END PIER ATTACHEMENT DETAIL

SCALE: N.T.S.

NOTE:
1. DETAIL PROVIDED BY CAMBRIA COUNTY ASSOCIATION FOR THE BLIND AND HANDICAPPED (CAB SOLAR), AND MODIFIED BY CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, PC.



E E5.2 CABLE TRAY TO CONDUIT TRANSITION

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

WIRE MANAGEMENT DETAILS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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ENGINEERING & LAND SURVEYING, PC
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9/5/2024

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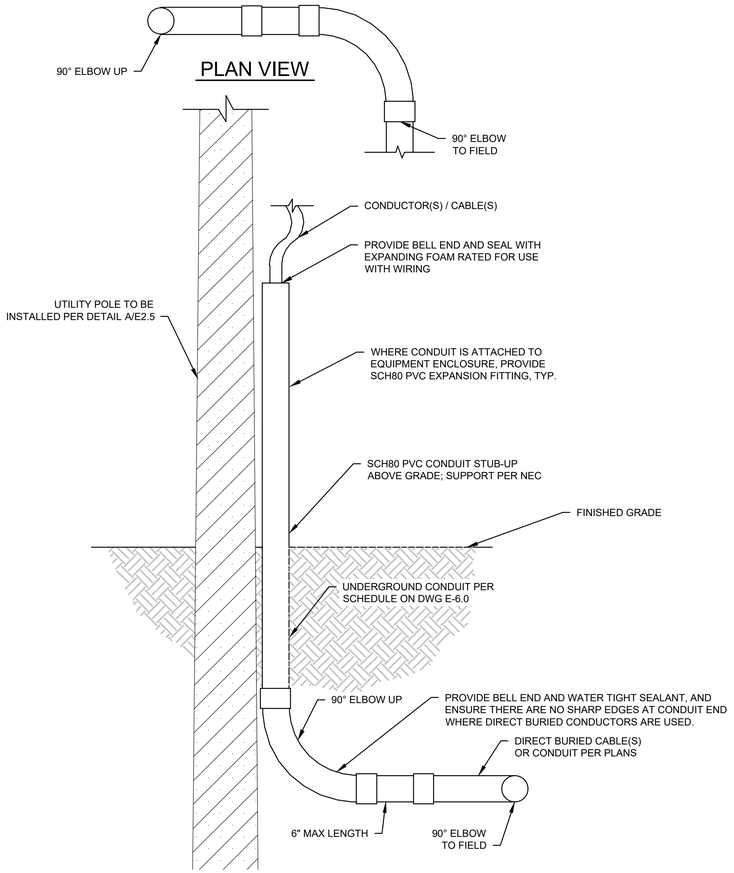
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SCALE	AS SHOWN

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DESIGNED BY:	TSB
CHECKED BY:	JSC
APPROVED BY:	JSC

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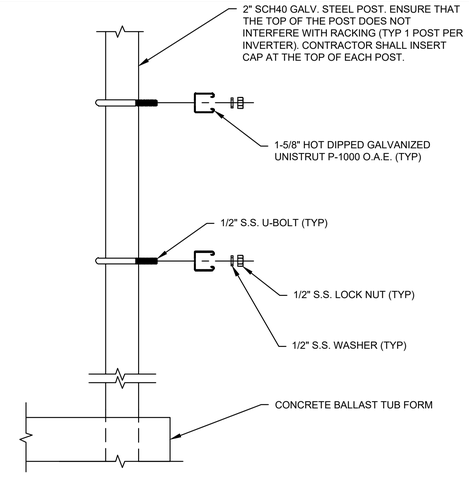
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DRAWING: E-5.2



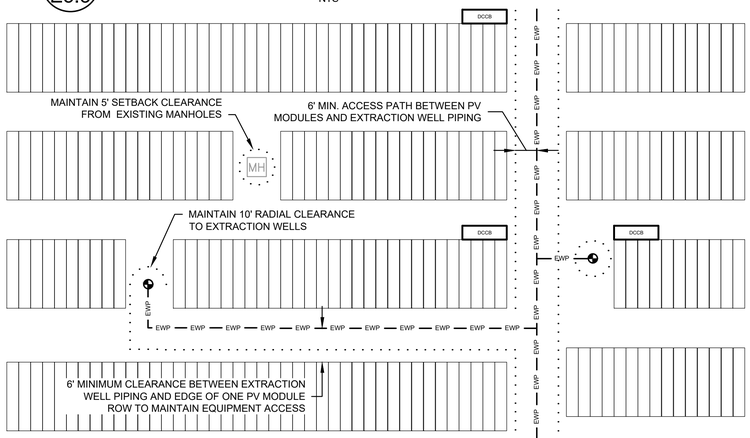
A E5.3 TYPICAL CONDUIT STUB-UP AND TRANSITION BELOW GRADE AT RISER POLE

SCALE: N.T.S.



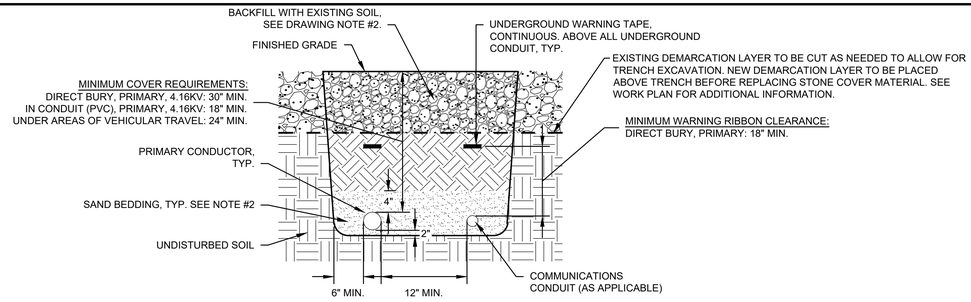
B E5.3 EQUIPMENT MOUNTING

NTS



F E5.3 EXTRACTION SYSTEM OFFSET DETAIL

SCALE: N.T.S.

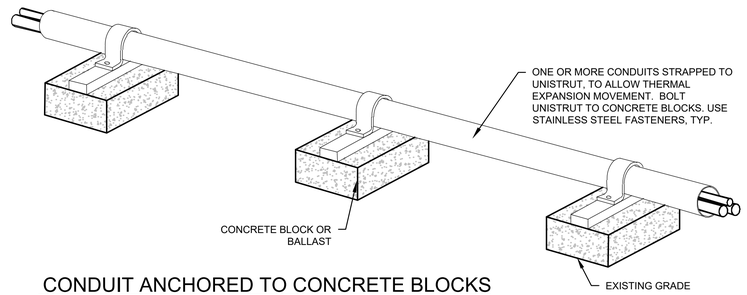


C E5.3 CONDUIT TRENCH DETAIL OFF EXTENT OF GSL LINER

SCALE: N.T.S.

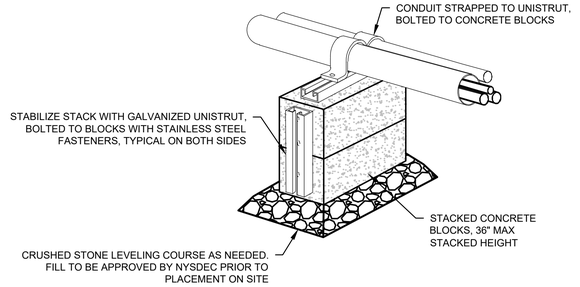
TRENCHING NOTES:

1. VEHICLE ACTIVITY AND SURFACE LOADING OVER THE BURIED CONDUIT OR CONDUCTORS SHALL NOT EXCEED THEIR RATED CRUSH TEST CAPACITY.
2. BACKFILL MATERIAL SHALL BE SPOILS FROM EXCAVATION, COMPACTED. NATIVE BACKFILL MATERIAL ONLY ACCEPTABLE IF IT CAN PASS THROUGH A 3" SCREEN. SAND BEDDING SHALL BE USED AROUND CONDUCTORS FOR PADDING, TYP.
3. THE NUMBER OF CONDUITS/CIRCUITS SHOWN IS REPRESENTATIVE AND WILL VARY PER THE PLANS AND SCHEDULES.
4. 12" MIN. CLEARANCE SHALL BE MAINTAINED BETWEEN POWER AND DATA WIRING.
5. EDGE OF TRENCH SHALL BE A MIN. OF 3' CLEAR FROM THE EDGE OF EQUIPMENT PAD UNLESS APPROVED BY E.O.R.
6. ALL CONDUIT INSTALLATION TO CONFORM TO NEC TABLE 300.5.



CONDUIT ANCHORED TO CONCRETE BLOCKS

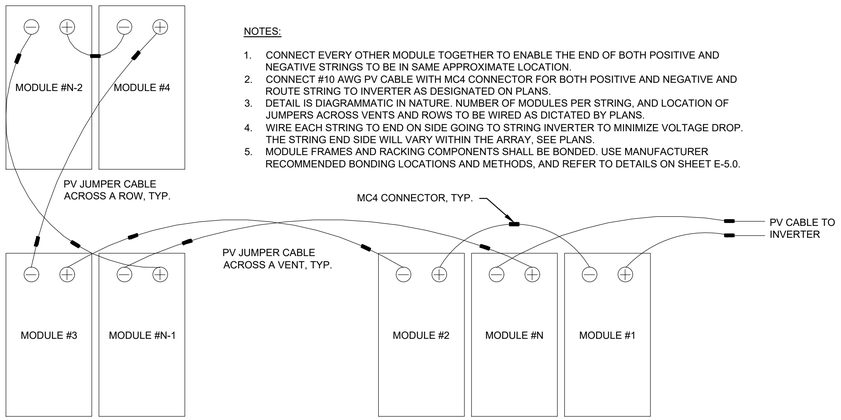
SCALE: N.T.S.



CONDUIT ANCHORED TO STACKED BLOCKS

E E5.3 CONDUIT ANCHORED TO CONCRETE BLOCKS

SCALE: N.T.S.

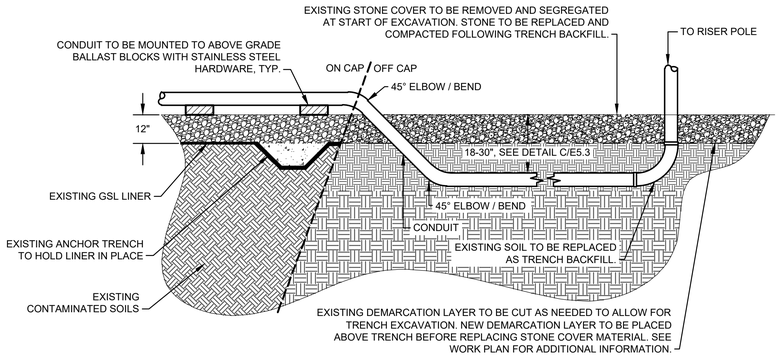


NOTES:

1. CONNECT EVERY OTHER MODULE TOGETHER TO ENABLE THE END OF BOTH POSITIVE AND NEGATIVE STRINGS TO BE IN SAME APPROXIMATE LOCATION.
2. CONNECT #10 AWG PV CABLE WITH MC4 CONNECTOR FOR BOTH POSITIVE AND NEGATIVE AND ROUTE STRING TO INVERTER AS DESIGNATED ON PLANS.
3. DETAIL IS DIAGRAMMATIC IN NATURE. NUMBER OF MODULES PER STRING, AND LOCATION OF JUMPERS ACROSS VENTS AND ROWS TO BE WIRED AS DICTATED BY PLANS.
4. WIRE EACH STRING TO END ON SIDE GOING TO STRING INVERTER TO MINIMIZE VOLTAGE DROP. THE STRING END SIDE WILL VARY WITHIN THE ARRAY, SEE PLANS.
5. MODULE FRAMES AND RACKING COMPONENTS SHALL BE BONDED. USE MANUFACTURER RECOMMENDED BONDING LOCATIONS AND METHODS, AND REFER TO DETAILS ON SHEET E-5.0.

D E5.3 STRING WIRING DETAIL, TYP.

SCALE: N.T.S.



G E5.3 CONDUIT TRENCH AT EDGE OF CAP

SCALE: N.T.S.

NOTES:

1. NO EXCAVATION SHALL OCCUR ABOVE THE GSL LINER UNLESS SPECIFICALLY NOTED.
2. SEE DETAIL C/E-5.3 ON THIS SHEET FOR TRENCHING SPECIFICATIONS.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

MISC. ELECTRICAL DETAILS-SHEET 1

INOVATEUS SOLAR LLC
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www.crawfordandassociates.com fax: (518) 828-2723

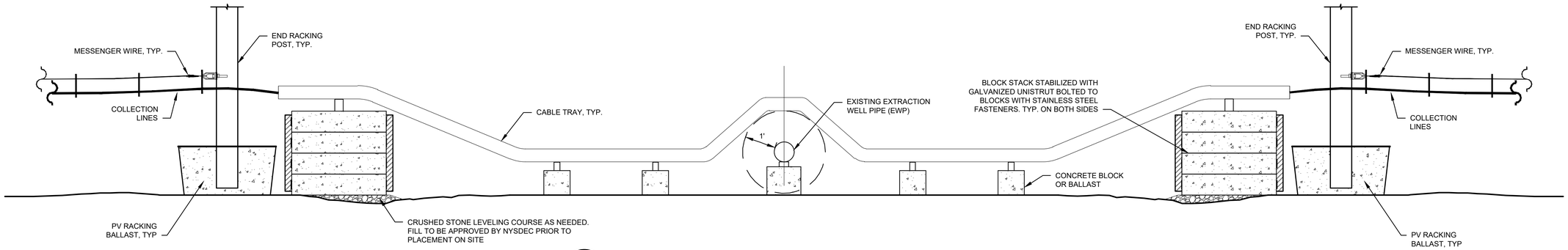
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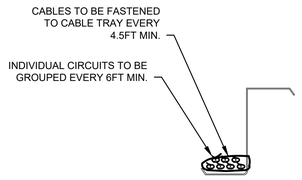


E / E5.4 EXTRACTION WELL PIPING CROSSING - SECTION VIEW

SCALE: N.T.S.

GENERAL NOTES:

1. ENCLOSURES SHOULD BE MOUNTED TO NEC STANDARDS AND IN A SHADED AREA.
2. ALL PENETRATIONS SHOULD BE MADE ON THE BOTTOM WITH WATER TIGHT CONNECTORS.
3. ONE STRAIN RELIEF COUPLING FOR EACH SENSOR WIRE RUN FREE AIR TO SENSOR WITH PROPER CABLE SECURING AND ROUTING TO INSURE A MAINTENANCE FREE LIFE.
4. FOR REMOTE WS: ONE TO CONNECT CONDUIT FOR MAIN TO REMOTE CAT 5 COMMUNICATION AND 24 VDC
5. MODULE TEMP SENSOR (BAPI BA/T1K-RPP-10'-BB2) RATED FOR -47 TO 57°C. THIS MODULE SHALL BE MOUNTED IN A SHADED AREA NEAR A MODULE. SENSOR SHOULD BE SECURED WITH CLEAR EPOXY AND FOIL TAPE IN THE MIDDLE OF A MODULE AND THE MIDDLE OF A STRING. SENSOR PROVIDED IN WEATHER PROOF MOUNTING. 2 WIRES NEED TO BE EXTENDED TO THE WEATHER STATION BOARD WITH INSTALLER SUPPLIED OUTDOOR SHIELDED CAT 5 (STP OR FTP) OR BELDEN 9842.
6. FOR THE AMBIENT TEMPERATURE SENSOR (BAPI BA/T1K-0-BB2) SHOULD BE MOUNTED IN THE SHADE NEAR THE WEATHER STATION BOARD. AMBIENT TEMPERATURE SENSOR PROVIDED IN WEATHER PROOF MOUNTING. 2 WIRES NEED TO BE EXTENDED (MAX. 30 FT) TO THE WEATHER STATION BOARD WITH INSTALLER SUPPLIED OUTDOOR SHIELDED CAT 5 (STP OR FTP) OR OR BELDEN 9842.
7. WIND SPEED AND DIRECTION ANEMOMETER SHALL BE A DAVIS 7911. MOUNTING BRACKET, SCREWS AND 1.25 INCHES U-BOLTS INCLUDED. MOUNTED TO A POLE OR STRUT 3 TO 4 FEET ABOVE SURROUNDING SURFACES. CONNECTED TO WEATHER STATION BOARD, INCLUDES 30 FEET OF CAT 5 (STP OR FTP) AND SHOULD NOT BE EXTENDED.
8. PRECISION PYRANOMETER FOR GLOBAL HORIZONTAL IRRADIATION (GHI) MEASUREMENTS SHOULD BE MOUNTED LEVEL AT THE HIGHEST POINT OF THE ARRAY. CLEAR OF ANY SHADOWS THROUGHOUT THE YEAR. IF ANY OBJECT IS HIGHER IT NEEDS TO BE GREATER THAN 10 TIMES FARTHER AWAY THAN IT IS HIGHER IN ORDER TO NOT EFFECT THE MEASUREMENT. CONNECT TO THE WEATHER STATION BOARD, 30FT CABLE IS PROVIDED AND SHOULD NOT BE EXTENDED OR CUT.

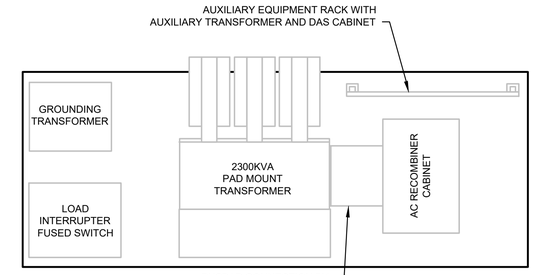


C / E5.4 CABLE TRAY DETAIL

SCALE: N.T.S.

NOTES:

1. THE CABLE TRAYS ON THE RACKING SYSTEM MAY SUPPORT THE SPECIFIED 1500V PV CABLES. WHERE AC CONDUCTORS RATED LESS THAN 1500V ARE INSTALLED IN THE SAME CABLE TRAY, THEY MUST BE SEPARATED BY A SOLID FIXED BARRIER OF MATERIAL COMPATIBLE WITH THE CABLE TRAY.
2. CABLES SHALL BE SECURED TO THE CABLE TRAY AT LEAST EVERY 4.5FT.
3. CABLES OF THE SAME CIRCUIT SHALL BE BOUND TOGETHER AT LEAST EVERY 6FT.
4. WHERE CABLES ENTER AND EXIT THE CABLE TRAY, THEY SHALL BE SECURED SO AS TO PREVENT STRESS ON CABLES. CABLES SHALL BE ROUTED IN A STRAIGHT PATH FROM PANEL CONNECTION TO FASTENER ON CABLE TRAY WHILE MAINTAINING A MINIMUM BEND RADIUS PER THE MANUFACTURER'S SPECIFICATIONS. LOOSE SECTIONS OF CABLE SHALL NOT BE PERMITTED.
5. ON ROWS CONTAINING MORE THAN (4) STRINGS, PV CABLES SHALL BE DISTRIBUTED TO UTILIZE EACH OF THE (4) CABLE TRAYS PROVIDED BY THE RACKING SYSTEM.

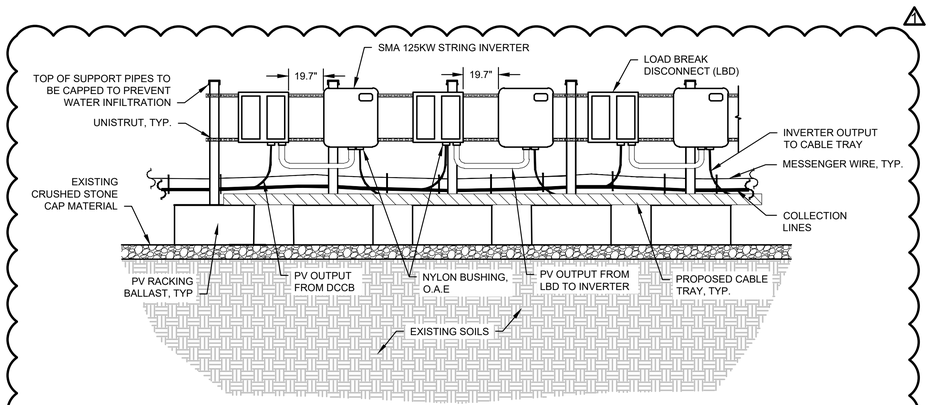


A / E-5.4 TYPICAL EQUIPMENT PAD PLAN VIEW

SCALE: N.T.S.

NOTES:

1. EQUIPMENT LAYOUT IS DIAGRAMMATIC IN NATURE, PAD LAYOUT DEPENDANT ON SKID DESIGN.
2. PAD MOUNT TRANSFORMER AND GROUNDING TRANSFORMER DIMENSIONS WILL BE UPDATED WHEN SCHEMATICS ARE AVAILABLE.

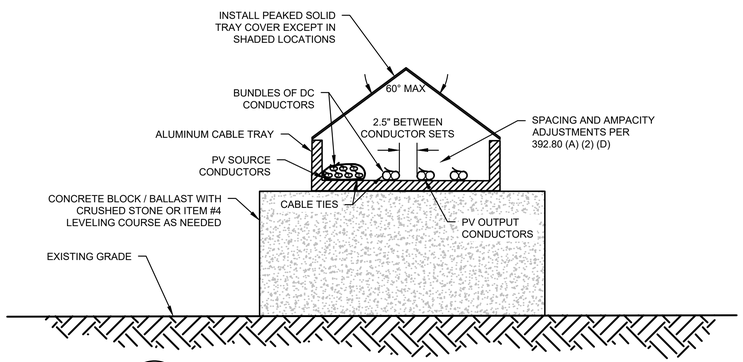


B / E5.4 INVERTER MOUNTING SYSTEM DETAIL

SCALE: N.T.S.

NOTES:

1. SUPPORT PIPES TO SHARE CONCRETE RACKING BALLASTS WHEN POSSIBLE. ADDITIONAL BALLASTS TO BE ADDED AS REQUIRED.
2. INVERTERS TO BE SPACED 12" MINIMUM FROM BACK OF RACKING POSTS.
3. SEE CONDUCTOR SCHEDULES ON SHEETS E-6.5 AND E-6.6 FOR DETAILS ON CONDUIT SIZING.



D / E5.4 ABOVE GRADE ELECTRIC IN CABLE TRAY

SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
1	INVERTER RACK DETAIL UPDATES	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

MISC. ELECTRICAL
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C&A JOB# 5566.03

DRAWING: E-5.4

PHOTOVOLTAIC SYSTEM LABELS		
LABEL ID	DESCRIPTION	LABEL LOCATION
1	*LEAD WIRES SHALL HAVE POLARITY MARKING OVERCURRENT PROTECTION = 30A OPEN-CIRCUIT VOLTAGE = 49.81VDC RATED VOLTAGE = 41.8VDC MAXIMUM SYSTEM VOLTAGE =1500VDC RATED CURRENT = 13.04A SHORT CIRCUIT CURRENT = 13.92A RATED MAXIMUM POWER = 545W	PV MODULES
2	ELK STREET SOLAR - ROW __ ⚠1	PERMANENTLY AFFIXED TO THE OUTERMOST RACKING POST OF EACH ROW, FACING THE ROW ACCESS POINT . LABELS SHALL BE BLUE BACKGROUND WITH WHITE CAPITAL LETTERS
3	INVERTER ___ STRING ___ (+ / -)	PERMANENTLY AFFIXED TO THE BOTTOM OF THE MODULE AT THE BEGINNING/END OF EACH STRING TO IDENTIFY EACH DC HOMERUN. NEGATIVE HOMERUN LABELS SHALL BE BLACK WITH WHITE CAPITAL LETTERS, POSITIVE LABELS SHALL BE RED WITH WHITE CAPITAL LETTERS. EACH LABEL SHALL INCLUDE THE CORRECT POLARITY MARKING (+ OR -)
4	WARNING ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED.	ALL UNGROUNDED JUNCTION BOXES, COMBINER BOXES, AND DISCONNECTS. LABELS SHALL BE REFLECTIVE ORANGE BACKGROUND WITH BLACK CAPITAL LETTERS
5	PHOTOVOLTAIC SYSTEM DC DISCONNECT MAXIMUM RATED POWER POINT CURRENT: 182.6A-DC MAXIMUM RATED POWER POINT VOLTAGE: 1086.8V-DC MAXIMUM RATED SYSTEM CURRENT: 214.4A-DC MAXIMUM RATED SYSTEM VOLTAGE:1460.1 V-DC	DC DISCONNECTS INCLUDING DCCB-1 THROUGH DCCB-7 AND LBD-1 THROUGH LBD-7. LABELS SHALL BE RED BACKGROUND WITH WHITE CAPITAL LETTERS
6	PHOTOVOLTAIC SYSTEM DC DISCONNECT MAXIMUM RATED POWER POINT CURRENT: 169.5A-DC MAXIMUM RATED POWER POINT VOLTAGE: 1086.8V-DC MAXIMUM RATED SYSTEM CURRENT: 199.1A-DC MAXIMUM RATED SYSTEM VOLTAGE:1460.1 V-DC	DC DISCONNECTS INCLUDING DCCB-8 THROUGH DCCB-19 AND LBD-8 THROUGH LBD-19. LABELS SHALL BE RED BACKGROUND WITH WHITE CAPITAL LETTERS
7	WARNING! ELECTRIC SHOCK HAZARD - TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.	ALL DC DISCONNECTS WHERE LINE AND LOAD TERMINALS MAY BE ENERGIZED IN THE OPEN (OFF) POSITION. LABELS SHALL BE REFLECTIVE ORANGE BACKGROUND WITH BLACK CAPITAL LETTERS
8	PHOTOVOLTAIC GENERATOR DISCONNECT SWITCH	UTLITY DISCONNECT POLE (SEE LABELS C AND D ON SHEET E-5.6)
8B	PHOTOVOLTAIC GENERATOR DISCONNECT IS LOCATED AT CUSTOMER POLE "C-1"	UTILITY METER POLE
9	PHOTOVOLTAIC GENERATOR DISCONNECT WARNING DUAL POWER SOURCE SECOND SOURCE IS A PV SYSTEM MAX OPERATING CURRENT: 331.0A MAX OPERATING VOLTAGE: 4.16KV	AT POINT OF INTERCONNECTION TO EXISTING SYSTEM. LABELS SHALL BE REFLECTIVE ORANGE BACKGROUND WITH BLACK CAPITAL LETTERS (SEE LABEL B ON SHEET E-5.6)

PHOTOVOLTAIC SYSTEM LABELS		
LABEL ID	DESCRIPTION	LABEL LOCATION
10	A PERMANENT PLAQUE INDICATED LOCATION OF ALL ELECTRIC POWER SOURCES ON OR IN THE PREMISES	ALL SERVICE EQUIPMENT AND AC DISCONNECTS AT INTERCONNECTION EQUIPMENT PADS.PLAQUES SHALL BE BLUE BACKGROUND WITH WHITE CAPITAL LETTERS (SEE LABEL A ON SHEET E-5.6)
11	LABELS ON ALL ELECTRICAL EQUIPMENT INSTALLED AS PART OF THE SOLAR INSTALLATION, CORRESPONDING TO THE LABELS ON E-6.0 AND E-6.2	ALL INVERTERS, COMBINERS, AND DISCONNECTS. LABELS SHALL BE BLUE BACKGROUND WITH WHITE CAPITAL LETTERS

NOTES:
1. SEE SHEETS E-5.6 AND E-5.7 FOR ADDITIONAL EQUIPMENT LABELING REQUIREMENTS.
2. FLASH HAZARD BOUNDARY, CAL/CM2 AND APPROACH BOUNDARY LABELS TO BE PROVIDED BY E.O.R. THROUGH ETAP PENDING FINAL ARC FLASH ANALYSIS REPORT.
3. ALL SIGNAGE AND LABELS TO BE COMPLIANT WITH NFPA70-110.20, ANSI Z535.4 AND UL969
4. LABEL & TEXT SIZES SHOWN ARE ENGINEERING RECOMMENDATIONS. SIZES ARE PERMITTED TO BE ADJUSTED. FINAL LABELS MUST BE LEGIBLE AND MEET ALL CODE REQUIREMENTS.

REV #	DESCRIPTION	DATE	BY
1	ROW LABEL UPDATE	3/22/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SYSTEM SIGNAGE AND LABELING - SHEET 1

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DRAWING:	E-5.5

CAUTION

POWER IS SUPPLIED
FROM THE FOLLOWING SOURCES WITH
DISCONNECTS LOCATED AS SHOWN.

3/4" (TYP)

1/4" (TYP)



APPROX
NORTH

503 ELK STREET
BUFFALO, NY 14210

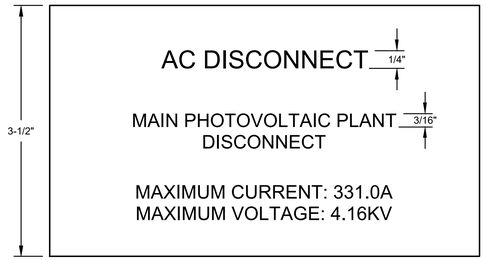
MAP OF POWER SOURCE
DISCONNECTING MEANS

1/4" (TYP)

1'0"

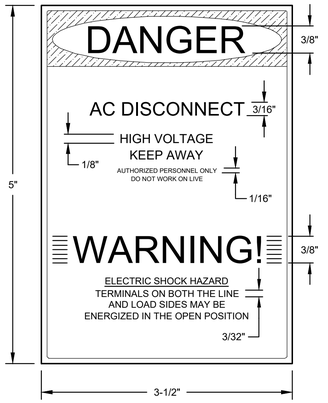
TO BE INSTALLED AT:
- PV SYSTEM AC SERVICE DISCONNECTING MEANS
- UTILITY MAIN SERVICE DISCONNECTING MEANS
- MAIN SITE ACCESS GATE

A / E5.6 FACILITIES WITH UTILITY SERVICES AND PV SYSTEMS DIRECTORY NTS



NOTES:
1. LABEL TO BE INSTALLED AT POLE "C-1"

B / E5.6 INTERACTIVE SYSTEM POI LABEL NTS



NOTES:
1. LABEL TO BE INSTALLED AT POLE "C-1"

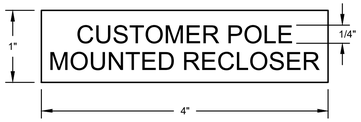
C / E5.6 PV SYSTEM DISCONNECTING MEANS LABEL NTS

NOTES:
1. SEE SHEETS E-5.5 AND E-5.7 FOR ADDITIONAL EQUIPMENT LABELING REQUIREMENTS.
2. FLASH HAZARD BOUNDARY, CAL/CM2 AND APPROACH BOUNDARY LABELS TO BE PROVIDED BY E.O.R. THROUGH ETAP PENDING FINAL ARC FLASH ANALYSIS REPORT.
3. ALL SIGNAGE AND LABELS TO BE COMPLIANT WITH NFPA70-110.20, ANSI Z535.4 AND UL969
4. LABEL & TEXT SIZES SHOWN ARE ENGINEERING RECOMMENDATIONS. SIZES ARE PERMITTED TO BE ADJUSTED. FINAL LABELS MUST BE LEGIBLE AND MEET ALL CODE REQUIREMENTS.



NOTES:
1. LABEL TO BE INSTALLED AT POLE "C-1"

D / E5.6 MAIN DISCONNECT EQUIPMENT LABEL NTS



NOTES:
1. LABEL TO BE INSTALLED AT POLE "C-1"

E / E5.6 CUSTOMER RECLOSER EQUIPMENT LABEL NTS

REV #	DESCRIPTION	DATE	BY
1	UPDATED LAYOUT	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SYSTEM SIGNAGE AND
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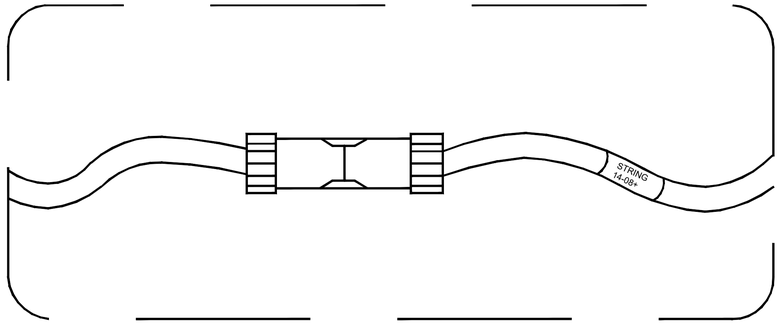
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AS SHOWN	APPROVED BY: JSC	5566.03

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A E5.7 STRING WIRE LABEL

SCALE: N.T.S.



B E5.7 CONDUIT LABEL

SCALE: N.T.S.

⚠ WARNING

HAZARDOUS VOLTAGE INSIDE

FOR YOUR SAFETY

-KEEP OUT-

CAN SHOCK, BURN, OR CAUSE DEATH

AUTHORIZED PERSONNEL ONLY



C E5.7 FENCE LABEL

SCALE: N.T.S.

NOTES:
1. SEE SHEETS E-5.5 AND E-5.6 FOR ADDITIONAL EQUIPMENT LABELING REQUIREMENTS.
2. FLASH HAZARD BOUNDARY, CAL/CM2 AND APPROACH BOUNDARY LABELS TO BE PROVIDED BY E.O.R. THROUGH ETAP PENDING FINAL ARC FLASH ANALYSIS REPORT.
3. ALL SIGNAGE AND LABELS TO BE COMPLIANT WITH NFPA70-110.20, ANSI Z535.4 AND UL969
4. CONDUIT LABEL TO BE PERMANENTLY AFFIXED TO RACEWAYS, CABLE TRAYS, AND JUNCTION BOXES THAT CONTAIN PV CONDUCTORS EVERY 10'. LABEL TO BE REFLECTIVE WITH RED BACKGROUND AND LETTERS WITH A MINIMUM HEIGHT OF 3/8".

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SYSTEM SIGNAGE AND LABELING - SHEET 3

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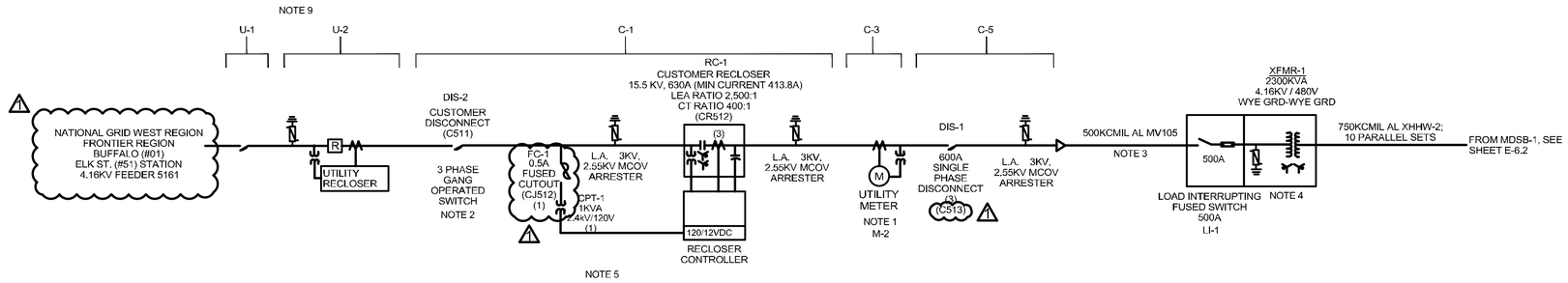
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AS SHOWN	APPROVED BY: JSC	DRAWING: E-5.7



SMA SUNNY HIGHPOWER PEAK3 125-US

NOMINAL APPARENT POWER AC	125 KVA
RATED OUTPUT POWER AC	125 KW
OPERATING VOLTAGE	480 V
ELECTRICAL SERVICE	3 AC 480V WYE + N
MAX CONTINUOUS CURRENT	151 RMS
PEAK EFFICIENCY	98.5%
WEIGHTED EFFICIENCY	98%
REGULATORY COMPLIANCE	UL 1741SB, IEEE 1547(2018)

SYSTEM CAPACITY

NUMBER OF INVERTERS	19 (NOTE 8)
TOTAL CAPACITY (AC)	2300 KVA/ 2300KW (NOTE 8)
TOTAL CAPACITY (DC)	3,599 KW
MODULE WATTAGE/QTY	545W/ 6,604

DRAWING NOTES:

1. EPC TO SUPPLY POLE MOUNTED METERING EQUIPMENT PER UTILITY SPECIFICATIONS.
2. SIGNAGE TO INCLUDE "PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH" DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION. DISCONNECT TO BE A 900A (MINIMUM CURRENT RATING TO BE AT LEAST 413.8A), 15KV GANG OPERATED DISCONNECT THAT CAN BE LOCKED IN THE OPEN POSITION.
3. 5KV CABLE TO BE IN CONDUIT. MV-105 WITH 133% INSULATION LEVEL AND FULL CONCENTRIC NEUTRAL.
4. TRANSFORMER TO BE 5-LEGGED CORE CONSTRUCTION, 5.75%Z, Z/R=8 AND DESIGNED FOR STEP UP OPERATION.
5. THE RECLOSER TO BE A G&W VIPER RECLOSER WITH 5V MAX LEA (PT) RATIO OF 2,500:1 AND CT RATIO OF 400:1. THE RECLOSER CONTROLLER TO BE A SEL-651R2 AND WILL OPEN THE RECLOSER FOR THE INDICATED SYSTEM CONDITIONS. THE SEL651R WILL ALSO PROVIDE FAIL SAFE CONTROLS BY TRIPPING FOR LOSS OF AC POWER AND BTFAIL (12VDC BATTERY AND/OR TEST FAILURE) CONDITIONS. THE RECLOSER WILL PROVIDE OPEN PHASE PROTECTION AND RECLOSING WILL BE ALLOWED ONCE VOLTAGE AND FREQUENCY IS RESTORED TO NORMAL LEVELS.
6. C-1 TO INCLUDE THE CUSTOMER OWNED GOAB AND THE CUSTOMER OWNED RECLOSER, C-3 TO INCLUDE THE UTILITY OWNED METER, C-5 TO INCLUDE THE DISCONNECT AND RISER. U-2 TO BE UTILITY OWNED AND TO INCLUDE UTILITY OWNED RECLOSER. POLES TO BE LOCATED 20 FT APART.
7. CONDUCTOR SIZES AND EQUIPMENT RATINGS TO BE REVIEWED BY EOR PRIOR TO CONSTRUCTION, PENDING FINAL EQUIPMENT SUBMITTALS BY INOVATEUS SOLAR, LLC.
8. PROJECT TO BE SOFTWARE LIMITED TO 2300KW AT THE POI BY LIMITING INVERTER #1-10 TO 121.1KW AND #11-19 TO 121.0KW.
9. U-1 AND U-2 TO BE INSTALLED BY THE UTILITY.

INTERCONNECTION SINGLE LINE DIAGRAM

WIRE AND CONDUIT SCHEDULE - INTERCONNECTION

FROM	TO	COMMENT	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[1] (%)	MIN. NEUTRAL WIRE SIZE	EQUIPMENT GROUNDING CONDUCTOR (CU)	SHALLOW BURIED ON LANDFILL/ABOVE GROUND CONDUIT TYPE	NORMAL BURIAL DEPTH CONDUIT TYPE	CONDUIT SIZE[3]
XFMR-1	LBD	AC INTERCONNECT CIRCUIT	3	MV-105 (AL, FULL CONCENTRIC NEUTRAL, 15KV 133%)	2	250	10	0.01%	N/A	N/A	N/A	PVC	6"[2]
LBD	C-5	AC INTERCONNECT CIRCUIT	3	MV-105 (AL, FULL CONCENTRIC NEUTRAL, 15KV 133%)	2	250	950	0.50%	N/A	N/A	RMC	PVC	6"[2]
C-5	C-4	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	75	0.11%	WAXWING	#2	N/A	N/A	N/A
C-4	C-3	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
C-3	C-2	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
C-2	C-1	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
C-1	U-2	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
U-2	U-1	BY UTILITY	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:
1. AC VOLTAGE DROP CALCULATIONS ASSUME POWER FACTOR = 1.
2. CIRCUIT MAY BE SEPARATED INTO PARALLEL CONDUITS OF A SMALLER SIZE.
3. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

REV #	DESCRIPTION	DATE	BY
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INTERCONNECTION
SINGLE LINE DIAGRAM

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

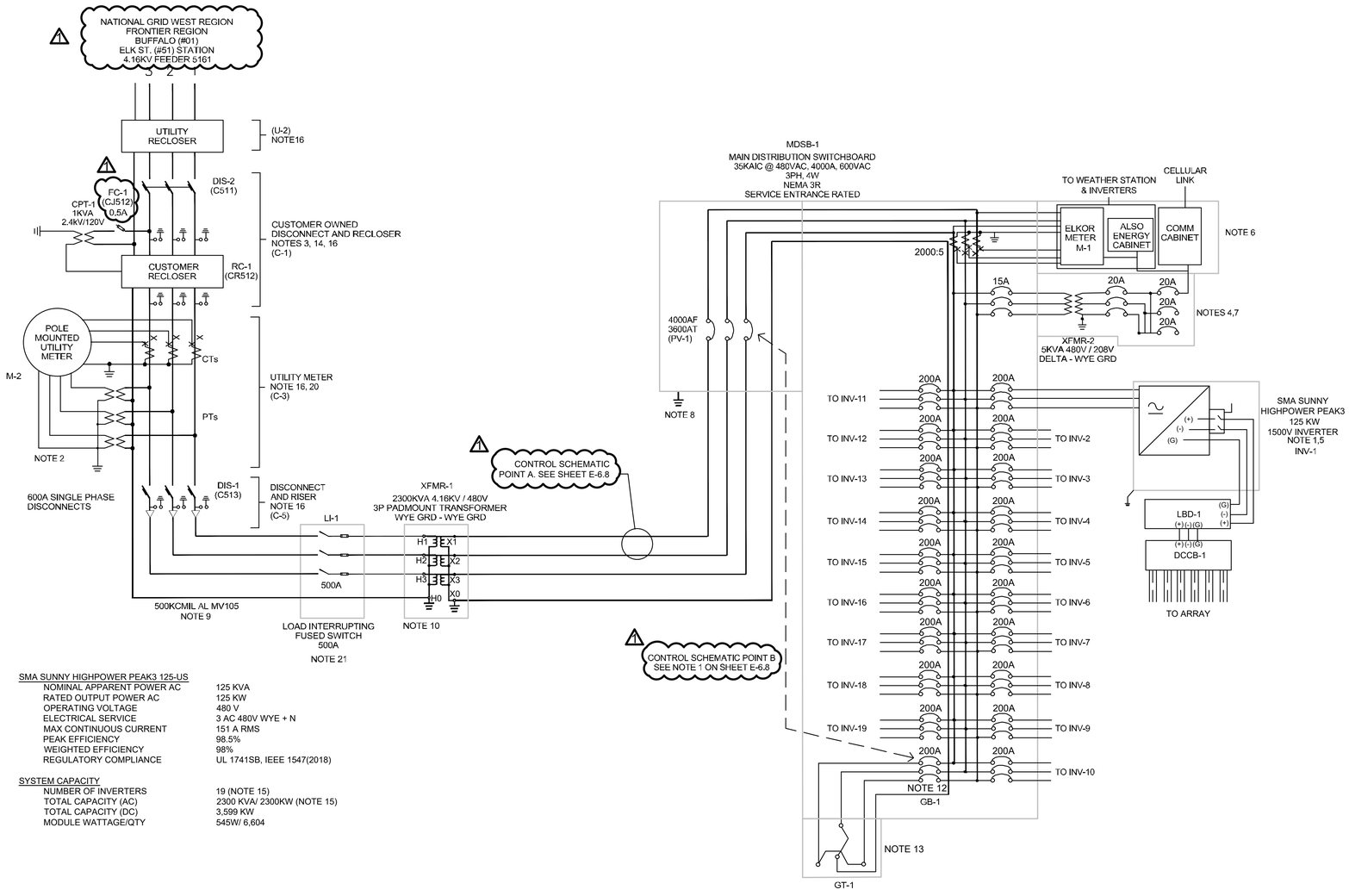
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9/5/2024

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	DESIGNED BY: TSB, JAT	C&A JOB# 5566.03	DRAWING: E-6.0
SCALE AS SHOWN	CHECKED BY: TSB, JSC		
	APPROVED BY: JSC		



SYSTEM THREE LINE DIAGRAM

DRAWING NOTES:

1. THE INVERTERS WILL AUTOMATICALLY DE-ENERGIZE THE OUTPUTS IF THE UTILITY GRID IS REMOVED AND WILL NOT RE-ENERGIZE FOR 5 MINUTES AFTER ACCEPTABLE UTILITY VOLTAGE LEVELS ARE ESTABLISHED.
2. EPC TO SUPPLY POLE MOUNTED METERING EQUIPMENT PER UTILITY SPECIFICATIONS.
3. SIGNAGE TO INCLUDE "PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH". DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION. DISCONNECT TO BE A 900A, 15KV GANG OPERATED DISCONNECT THAT CAN BE LOCKED IN THE OPEN POSITION.
4. LIGHTS AND 120V GFI OUTLETS TO BE INCLUDED IN SWITCHPAD.
5. WIRES TO INVERTERS WILL BE 3W, 1GRD. SIZE TO BE DETERMINED BASED ON FINAL PANEL LAYOUT FOR VOLTAGE DROP CONSIDERATIONS.
6. WEATHER STATION, PV METER AND TELECOMMUNICATIONS EQUIPMENT TO BE MOUNTED IN NEMA 3R PANEL AND MOUNTED TO SWITCHBOARD. POWER TO BE SUPPLIED FROM MINI POWER ZONE.
7. 120V POWER TO BE FED FROM SQUARE D MINI POWER ZONE (MPZ5S40F) OR EQUIVALENT.
8. THE GROUND GRID WILL BE CONSTRUCTED OF 4/0 BARE CONDUCTOR WITH A MAXIMUM RESISTANCE TO GROUND OF 5 OHMS.
9. 5KV CABLE TO BE IN CONDUIT. MV-105 WITH 133% INSULATION LEVEL AND FULL CONCENTRIC NEUTRAL.
10. TRANSFORMER AS-BUILT TO BE TRIPLEX CORE, 5.75%Z, Z/R=8 AND DESIGNED FOR STEP UP OPERATION.
11. MAIN BREAKER AS-BUILT TO BE 100% RATED.
12. GB-1 BREAKER AS-BUILT WILL BE A SQUARE D J FRAME TYPE BREAKER WITH AUXILIARY CONTACTS. PV-1 BREAKER WILL BE INTERLOCKED TO TRIP WHEN THE GB-1 BREAKER IS OPEN.
13. GROUNDING TRANSFORMER AS-BUILT TO BE A 3 PHASE ZIG-ZAG 119.3KVA GROUNDING TRANSFORMER RATED FOR 430A NEUTRAL CURRENT, 144A PHASE CURRENT, X/R OF 4, ZERO SEQ IMPEDANCE (ZG) OF 0.10 OHMS AND SHORT CIRCUIT RATING OF 6143A.
14. THE RECLOSER AS-BUILT TO BE A G&W VIPER RECLOSER WITH 5V MAX LEA (PT) RATIO OF 2,500:1 AND CT RATIO OF 400:1. THE RECLOSER CONTROLLER TO BE A SEL-651R2 AND WILL OPEN THE RECLOSER FOR THE INDICATED SYSTEM CONDITIONS. THE SEL651R WILL ALSO PROVIDE FAIL SAFE CONTROLS BY TRIPPING FOR LOSS OF AC POWER AND BTFAIL (12VDC BATTERY AND/OR TEST FAILURE) CONDITIONS. THE RECLOSER WILL PROVIDE OPEN PHASE PROTECTION AND RECLOSING WILL BE ALLOWED ONCE VOLTAGE AND FREQUENCY IS RESTORED TO NORMAL LEVELS.
15. PROJECT TO BE SOFTWARE LIMITED TO 2300KW AT THE POI BY DERATING INVERTERS #1-10 TO 121.1KW AND #11-19 TO 121.0KW. A LETTER FROM THE MANUFACTURER IS REQUIRED SHOWING INVERTERS ARE DERATED.
16. C-1 TO INCLUDE THE CUSTOMER OWNED GOAB AND THE CUSTOMER OWNED RECLOSER. C-3 TO INCLUDE THE UTILITY OWNED METER, C-5 TO INCLUDE THE DISCONNECT AND RISER. U-2 TO BE UTILITY OWNED AND TO INCLUDE UTILITY OWNED RECLOSER.
17. THREE LINE DIAGRAM BASED ON UTILITY COORDINATION DRAWING TITLED "THREE LINE UTILITY INTERCONNECTION", REVISION NUMBER 6, DATED JANUARY 13, 2022 BY JEM ENGINEERING SERVICES, LLC.
18. CONDUCTOR SIZES AND EQUIPMENT RATINGS TO BE REVIEWED BY EOR PRIOR TO CONSTRUCTION, PENDING FINAL EQUIPMENT SUBMITTALS BY INOVATEUS SOLAR, LLC.
19. BIFACIAL GAIN ASSUMED TO BE 12%.
20. UTILITY METER CT AND PT RATIOS TO BE PROVIDED BY THE UTILITY.
21. FINAL COORDINATION ANALYSIS TO BE REVIEWED UPON RECEIPT OF FUSE SPECIFICATIONS.
22. XFMR-1 AND GT-1 ARE SPACED 3 FT APART ON THE EQUIPMENT PAD.

SMA SUNNY HIGHPOWER PEAK3 125-US

NOMINAL APPARENT POWER AC	125 KVA
RATED OUTPUT POWER AC	125 KW
OPERATING VOLTAGE	480 V
ELECTRICAL SERVICE	3 AC 480V WYE + N
MAX CONTINUOUS CURRENT	151 A RMS
PEAK EFFICIENCY	98.5%
WEIGHTED EFFICIENCY	98%
REGULATORY COMPLIANCE	UL 1741SB, IEEE 1547(2018)

SYSTEM CAPACITY

NUMBER OF INVERTERS	19 (NOTE 15)
TOTAL CAPACITY (AC)	2300 KVA/ 2300KW (NOTE 15)
TOTAL CAPACITY (DC)	3,599 KW
MODULE WATTAGE/QTY	545W/ 6,604

REV #	DESCRIPTION	DATE	BY
1	UPDATES PER NATIONAL GRID COMMENTS	3/5/24	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SYSTEM THREE LINE DIAGRAM

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

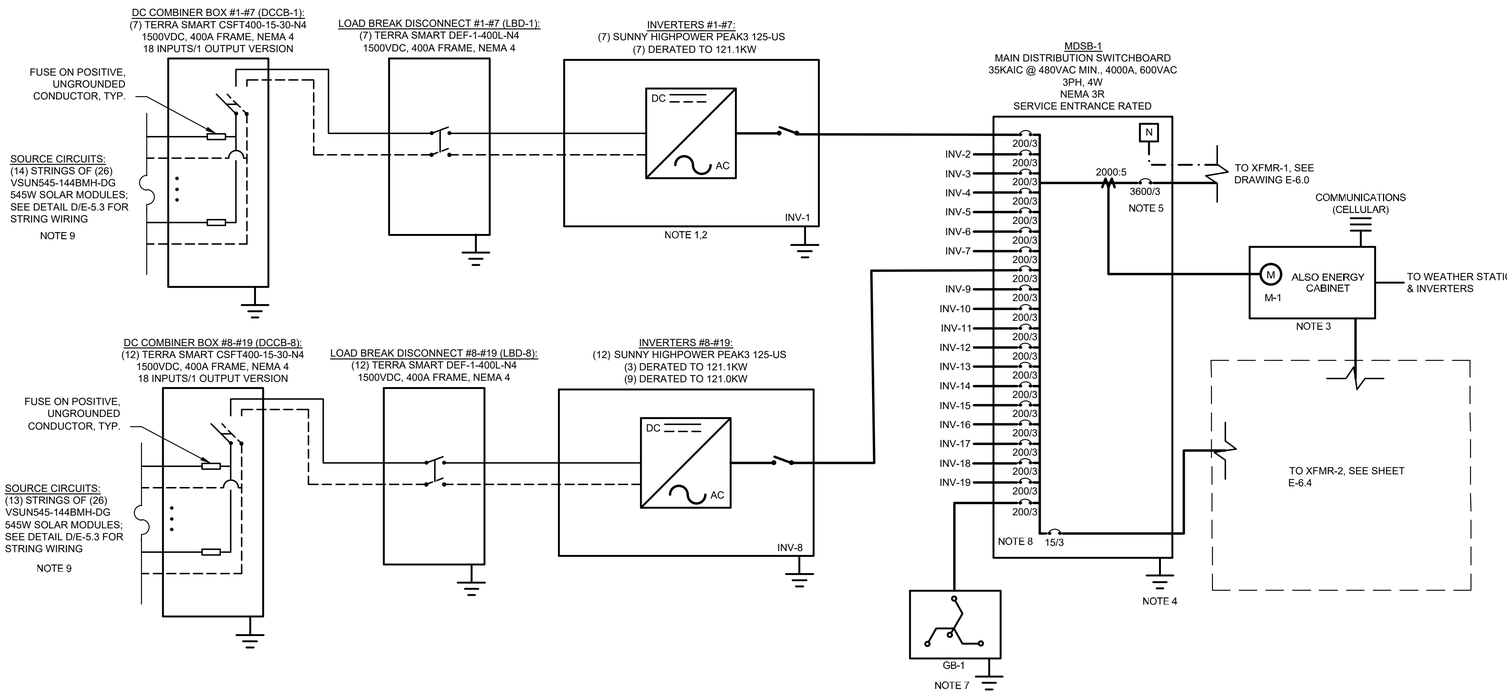
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5/5/2024

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		APPROVED BY: JSC	DRAWING: E-6.1



LEGEND

- DC POWER - POSITIVE
- DC POWER - NEGATIVE
- AC POWER, 3 PHASE

DRAWING NOTES:

1. THE INVERTERS WILL AUTOMATICALLY DE-ENERGIZE THE OUTPUTS IF THE UTILITY GRID IS REMOVED AND WILL NOT RE-ENERGIZE FOR 5 MINUTES AFTER ACCEPTABLE UTILITY VOLTAGE LEVELS ARE ESTABLISHED.
2. WIRES TO INVERTERS WILL BE 3W, 1GRD. SIZE TO BE DETERMINED BASED ON FINAL PANEL LAYOUT FOR VOLTAGE DROP CONSIDERATIONS.
3. WEATHER STATION, PV METER AND TELECOMMUNICATIONS EQUIPMENT TO BE MOUNTED IN NEMA 3R PANEL AND MOUNTED TO SWITCHBOARD. POWER TO BE SUPPLIED FROM MINI POWER ZONE.
4. THE GROUND GRID WILL BE CONSTRUCTED OF 4/0 BARE CONDUCTOR WITH A MAXIMUM RESISTANCE TO GROUND OF 5 OHMS.
5. MAIN BREAKER TO BE 100% RATED.
6. GB-1 BREAKER WILL BE A SQUARE D J FRAME TYPE BREAKER WITH AUXILIARY CONTACTS. PV-1 BREAKER WILL BE INTERLOCKED TO TRIP WHEN THE GB-1 BREAKER IS OPEN.
7. GROUNDING TRANSFORMER TO BE A 3 PHASE ZIG-ZAG 119.3KVA GROUNDING TRANSFORMER RATED FOR 430A NEUTRAL CURRENT, 144A PHASE CURRENT, X/R OF 4, ZERO SEQ IMPEDANCE (ZG) OF 0.10 OHMS AND SHORT CIRCUIT RATING OF 6143A.
8. PROJECT TO BE SOFTWARE LIMITED TO 2300KW AT THE POI BY LIMITING INVERTER #1-10 TO 121.1KW AND #11-19 TO 121.0KW.
9. BIFACIAL GAIN ASSUMED TO BE LESS THAN 25%.

INVERTER WIRING DIAGRAM

SYSTEM DESIGN CALCULATIONS

DESCRIPTION	CALCULATION
THE NUMBER OF MODULES IN A STRING IS BASED ON MANUFACTURER'S SPECIFICATIONS FOR THE TEMPERATURE CO-EFFICIENT FOR VOLTAGE. FOR THE VSUN545-144BMH-DG (545W) MODULE IS -0.27%/ºC AT AN AMBIENT TEMPERATURE OF 25ºC. BASED ON THE RECORD LOW OF -18.6ºC THE TEMPERATURE DIFFERENTIAL IS 43.6ºC. FORMULA: VOC*TEMPERATURE DIFFERENTIAL*TEMPERATURE COEFFICIENT	VOLTAGE INCREASE FOR 43.6ºC DIFFERENTIAL IS = 49.81Vx(43.6Vx0.0027) = 5.86V MODULE MAXIMUM ALLOWABLE MODULES IN SERIES FOR A 1500V SYSTEM = 1500V/(49.81V+5.86V) = 26.94 NUMBER OF MODULES IN SERIES IN ONE STRING SELECTED = 26 MODULES TOTAL OPEN CIRCUIT VOLTAGE WITH CORRECTION FACTOR = 26x(49.81V+5.86V) = **1447.42V**
BIFACIAL GAIN OF 12% INCLUDED IN CALCULATIONS (PER NEC 2017 690.8(A)(1)(1), SAM SIMULATION RESULTS) FORMULA: I_{MPP} OF MODULE*1.12	I_{MAX} = 13.04A*1.12 = **14.605A**
STRING FUSE DISCONNECT SIZING (PER NEC 2017 690.9B) FORMULA: I_{MAX}*1.25	1 STRING (26 MODULES) = 14.605A*1.25 = 18.256A. NEXT SIZE UP = **20A**
COMBINER BOX MAX CURRENT FORMULA (PER NEC 2017 690.8(A)(1)) FORMULA: I_{MAX} *NUMBER OF STRINGS	$ISC_{MAX,DCCB}$ =14.605A*14 = **204.47A**
COMBINER BOX FUSE DISCONNECT SIZING (PER NEC 2017 690.9(B)) FORMULA: I_{MAX} *1.25*NUMBER OF STRINGS	14 STRING COMBINER BOX =14.605A*1.25*14 = 255.58A. NEXT SIZE UP = **300A**
14 STRING COMBINER BOX OUTPUT CONDUCTOR SIZING PER NEC 2017 690.8(A)&(B): FORMULA: I_{MAX} *1.25*NUMBER OF STRINGS	14 STRING COMBINER BOX = 14.605A*1.25*14 = **255.58A** PER NEC 2017 TABLE 310.15(B)(16) FOR ALUMINUM CONDUCTORS WITH 90ºC TEMPERATURE RATING, 300KCMIL CONDUCTOR CAN HANDLE UP TO 260A.
THERMAL AMPACITY CORRECTIONS	SEE ELK STREET PRELIMINARY THERMAL AMPACITY AND CONDUIT FILL STUDY

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INVERTER WIRING DIAGRAM

INOVATEUS SOLAR LLC
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South Bend, IN 46637

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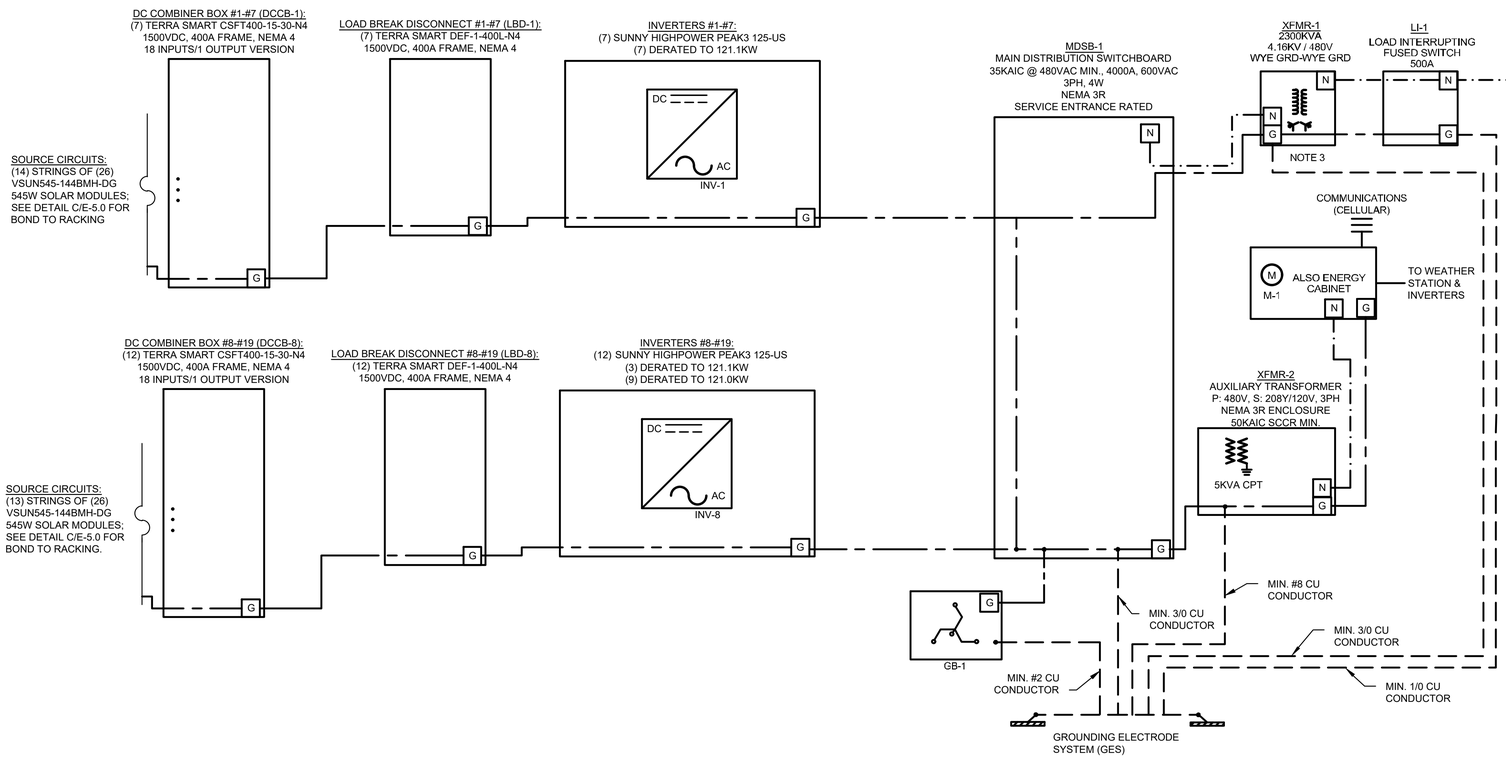
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5/1/2024

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DRAWING: E-6.2



LEGEND

- EQUIPMENT GROUNDING CONDUCTOR (EGC)
- GROUNDING ELECTRODE CONDUCTOR (GEC)
- GROUNDED CONDUCTOR (NEUTRAL)
- GROUND PLATE

DRAWING NOTES:

1. THE GROUND GRID WILL BE CONSTRUCTED OF 4/0 BARE CONDUCTOR WITH A MAXIMUM RESISTANCE TO GROUND OF 5 OHMS.
2. SEE CONDUCTOR SCHEDULES ON SHEETS E-6.5 THROUGH E-6.6 FOR EGC SIZES.
3. N-G BOND TO OCCUR AT XFMR-1 AND RISER POLE (C-5) WITH MIN. 1/0 CU CONDUCTOR.
4. N-G BOND TO OCCUR AT XFMR-2 WITH MIN. #8 CU CONDUCTOR.
5. TO BE FINALIZED BASED ON FINAL GROUNDING STUDY.

GROUNDING DIAGRAM

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

GROUNDING DIAGRAM

INOVATEUS SOLAR LLC
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9/5/2024

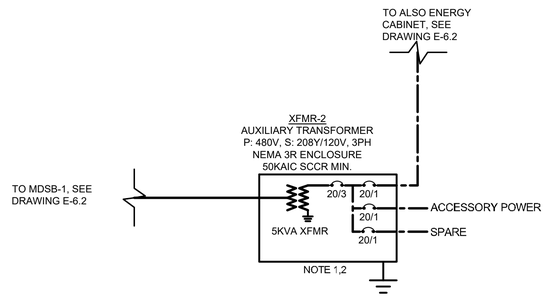
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LEGEND

AC POWER, SINGLE PHASE

AC POWER, 3 PHASE

DRAWING NOTES:
1. LIGHTS AND 120V GFI OUTLETS TO BE INCLUDED IN SWITCHPAD.
2. 120V POWER TO BE FED FROM SQUARE D MINI POWER ZONE (MPZ5S40F) OR EQUIVALENT.



AUXILIARY POWER DIAGRAM

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AUXILIARY POWER
DIAGRAM

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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9/5/2024

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WIRE AND CONDUIT SCHEDULE - DC

FROM	TO	COMMENT	OCPD RATING	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS[4]	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[5] (%)	EQUIPMENT GROUNDING CONDUCTOR WIRE SIZE (CU)[6]	SHALLOW BURIED ON LANDFILL/ABOVE GROUND CONDUIT TYPE	NORMAL BURIAL DEPTH CONDUIT TYPE	CONDUIT SIZE[7]
PV MODULES	INVERTERS	PV SOURCE CIRCUITS, TYP.	30	2	PV CABLE (CU, 1500V)	1	#10	250	0.87%	#6	N/A	N/A	SEE NOTE 5
DCCB-01	LBD-01	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	500	750	1.11%	#1	RMC	N/A	3-1/2"
DCCB-02	LBD-02	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	500	660	0.98%	#1	RMC	N/A	3-1/2"
DCCB-03	LBD-03	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	545	1.01%	#2	RMC	N/A	3"
DCCB-04	LBD-04	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	585	1.08%	#2	RMC	N/A	3"
DCCB-05	LBD-05	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	500	695	1.03%	#1	RMC	N/A	3-1/2"
DCCB-06	LBD-06	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	600	785	0.97%	#1	RMC	N/A	3-1/2"
DCCB-07	LBD-07	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	600	850	1.05%	#1	RMC	N/A	3-1/2"
DCCB-08	LBD-08	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	235	0.63%	#4	RMC	N/A	3"
DCCB-09	LBD-09	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	105	0.28%	#4	RMC	N/A	3"
DCCB-10	LBD-10	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	205	0.55%	#4	RMC	N/A	3"
DCCB-11	LBD-11	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	290	0.77%	#4	RMC	N/A	3"
DCCB-12	LBD-12	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	320	0.85%	#4	RMC	N/A	3"
DCCB-13	LBD-13	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	410	1.01%	#4	RMC	N/A	3"
DCCB-14	LBD-14	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	470	0.87%	#2	RMC	N/A	3"
DCCB-15	LBD-15	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	560	1.04%	#2	RMC	N/A	3"
DCCB-16	LBD-16	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	410	1.01%	#4	RMC	N/A	3"
DCCB-17	LBD-17	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	350	0.86%	#4	RMC	N/A	3"
DCCB-18	LBD-18	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	290	0.77%	#4	RMC	N/A	3"
DCCB-19	LBD-19	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	230	0.61%	#4	RMC	N/A	3"
LBD-01	INV-01	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-02	INV-02	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-03	INV-03	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-04	INV-04	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-05	INV-05	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-06	INV-06	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-07	INV-07	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	RMC	N/A	3"
LBD-08	INV-08	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-09	INV-09	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-10	INV-10	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-11	INV-11	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-12	INV-12	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-13	INV-13	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-14	INV-14	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-15	INV-15	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-16	INV-16	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-17	INV-17	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-18	INV-18	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"
LBD-19	INV-19	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	RMC	N/A	3"

NOTES:

1. CONDUCTOR SIZING ASSUMES THAT NO MORE THAN ONE CIRCUIT WILL BE INSTALLED IN EACH CONDUIT. SEE THE "MAXIMUM # OF CONDUCTORS ALLOWABLE" TABLE IF MSW HANGERS ARE TO BE SHARED BY MULTIPLE CIRCUITS.
2. EQUIPMENT GROUNDING CONDUCTORS SIZED 8AWG AND SMALLER THAT ARE SUBJECT TO PHYSICAL DAMAGE MUST BE INSTALLED IN A RACEWAY. WHERE MULTIPLE CIRCUITS ARE IN THE SAME MSW, USE THE MAX EGC FOR ALL CIRCUITS IN THAT BUNDLE.
3. CONDUCTOR TERMINALS SHALL BE RATED TO 75°C MINIMUM ON AC EQUIPMENT, 90°C ON DC EQUIPMENT.
4. EACH PARALLEL SET IS ASSUMED TO CONTAIN (2) CONDUCTORS AND (1) EGC CONTAINED IN (1) CONDUIT FOR DC CIRCUITS.
5. INSTALL PV WIRE IN MESSENGER SUPPORTED WIRING OR USING CABLE CLIPS ATTACHED TO THE RACKING. WHERE INSTALLING IN MSW IS NOT POSSIBLE, INSTALL IN 1/2" CONDUIT. WHEN PENETRATING EQUIPMENT ENCLOSURES, CONDUIT IS NOT NECESSARY, BUT NYLON BUSHINGS, OR APPROVED EQUAL, ARE NECESSARY FOR ABRASION RESISTANCE.
6. DC FUSES SHALL BE LISTED FOR 1,500 VDC. & BE RATED FOR USE IN PV SYSTEMS.
7. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

DC CONDUCTOR SCHEDULE

MAXIMUM # OF CONDUCTORS ALLOWABLE							
	PV SOURCE CONDUCTORS	PV OUTPUT CONDUCTORS				INVERTER OUTPUT CONDUCTORS	
	#10 AWG	300 KCMIL	400 KCMIL	500 KCMIL	600 KCMIL	250 KCMIL	300 KCMIL
IN MSW[1]							
1 BUNDLE	36	4	8	10	14	6	9
IN CONDUIT[2,3]							
1-1/2"	6	N/A	N/A	N/A	N/A	N/A	N/A
2"	10						
2-1/2"	16						
3"	26	2	2			3	3
3-1/2"	N/A	2	2	2	2	3	3
4"		4	2	2	2	6	3
5"		6	6	4	4	9	6

[1] MAXIMUM # OF CONDUCTORS SHOWN LIMITED BY AMPACITY AND MAY BE FURTHER LIMITED BY MECHANICAL CONSTRAINTS. WIND SPEED = 1.34 MPH AND AMBIENT TEMP = 30 °C USED IN AMPCALC CALCULATIONS.

[2] MAXIMUM # OF CONDUCTORS LIMITED BY AMPACITY AND MAXIMUM OF 20% CONDUIT FILL. WIND SPEED = 1.34 MPH AND AMBIENT TEMP = 30 °C USED IN AMPCALC CALCULATIONS.

[3] CONDUIT ASSUMED TO BE ABOVE GRADE WITH MIN. 1" SPACING.

[4] CONDUCTORS OF DIFFERENT VOLTAGES MUST BE KEPT IN SEPARATE BUNDLES/CONDUITS, SEPARATED BY MIN. 1" SPACING.

[4] MINIMUM EGC SIZE PER BUNDLE/CONDUIT TO CORRESPOND TO SPECIFIED GROUND WIRE SIZE FOR LARGEST CONDUCTOR INCLUDED IN THE BUNDLE/CONDUIT.

MAXIMUM # OF CONDUCTORS ALLOWABLE TABLE

REV #	DESCRIPTION	DATE	BY
1	UPDATED DC CONDUCTOR SIZING	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

DC CONDUCTOR SCHEDULE

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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STATE OF NEW YORK — JENNIFER SUZANNE CRAWFORD — 100556 — LICENSED PROFESSIONAL ENGINEER

3/22/2024

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WIRE AND CONDUIT SCHEDULE - AC

		COMMENT	OCPD RATING	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS[4]	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[5] (%)	MIN. NEUTRAL WIRE SIZE	EQUIPMENT GROUND CONDUCTOR WIRE SIZE (CU)[2]	SHALLOW BURIED ON LANDFILL/ABOVE GROUND CONDUIT TYPE	NORMAL BURIAL DEPTH CONDUIT TYPE	CONDUIT SIZE[6]
INV-01	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	75	0.34%	N/A	#4	RMC	N/A	3"
INV-02	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	85	0.38%	N/A	#4	RMC	N/A	3"
INV-03	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	95	0.42%	N/A	#4	RMC	N/A	3"
INV-04	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	105	0.47%	N/A	#4	RMC	N/A	3"
INV-05	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	110	0.49%	N/A	#4	RMC	N/A	3"
INV-06	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	120	0.54%	N/A	#4	RMC	N/A	3"
INV-07	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	130	0.58%	N/A	#4	RMC	N/A	3"
INV-08	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	135	0.60%	N/A	#4	RMC	N/A	3"
INV-09	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	145	0.65%	N/A	#4	RMC	N/A	3"
INV-10	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	40	0.18%	N/A	#4	RMC	N/A	3"
INV-11	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	50	0.22%	N/A	#4	RMC	N/A	3"
INV-12	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	60	0.27%	N/A	#4	RMC	N/A	3"
INV-13	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	65	0.29%	N/A	#4	RMC	N/A	3"
INV-14	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	75	0.33%	N/A	#4	RMC	N/A	3"
INV-15	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	85	0.38%	N/A	#4	RMC	N/A	3"
INV-16	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	90	0.40%	N/A	#4	RMC	N/A	3"
INV-17	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	100	0.45%	N/A	#4	RMC	N/A	3"
INV-18	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	110	0.49%	N/A	#4	RMC	N/A	3"
INV-19	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	120	0.54%	N/A	#4	RMC	N/A	3"
MDSB-1	XFMR-1	AC BRANCH CIRCUIT	3600	3	BUSBAR CONNECTION	N/A	N/A	N/A	N/A	BUSBAR NEUTRAL	N/A	N/A	N/A	N/A
MDSB-1	AUX-1	AC BRANCH CIRCUIT	15	3	XHHW-2 (CU)	1	#12	20	0.14%	N/A	#12	RMC	N/A	3/4"
MDSB-1	GB-1	AC BRANCH CIRCUIT	200	3	XHHW-2 (AL)	1	#4/0	20	0.10%	(2)500	#6	RMC	N/A	4"

NOTES:
1. CONDUCTOR SIZING ASSUMES THAT NO MORE THAN THREE-CURRENT CARRYING CONDUCTORS WILL BE INSTALLED IN EACH CONDUIT. SEE THE "MAXIMUM # OF CONDUCTORS ALLOWABLE" TABLE IF MSW HANGERS ARE TO BE SHARED BY MULTIPLE CIRCUITS.
2. EQUIPMENT GROUNDING CONDUCTORS SIZED 8AWG AND SMALLER THAT ARE SUBJECT TO PHYSICAL DAMAGE MUST BE INSTALLED IN A RACEWAY. WHERE MULTIPLE CIRCUITS ARE IN THE SAME MSW, USE THE MAX EGC FOR ALL CIRCUITS IN THAT BUNDLE.
3. CONDUCTOR TERMINALS SHALL BE RATED TO 75°C MINIMUM ON AC EQUIPMENT, 90°C ON DC EQUIPMENT.
4. EACH PARALLEL SET IS ASSUMED TO CONTAIN (2-3) PHASE CONDUCTORS, (1) NEUTRAL AND (1) EGC CONTAINED IN (1) CONDUIT FOR AC CIRCUITS.
5. AC VOLTAGE DROP CALCULATIONS ASSUME POWER FACTOR = 1.
6. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

AC CONDUCTOR SCHEDULE

REV #	DESCRIPTION	DATE	BY
1	UPDATED AC CONDUCTOR SIZING	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AC CONDUCTOR SCHEDULE

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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3/22/2024

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	APPROVED BY: JSC		

AUXILIARY POWER SCHEDULE

FROM	TO	COMMENT	OCPD RATING	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS[4]	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[5] (%)	MIN. NEUTRAL WIRE SIZE	GROUND WIRE SIZE (CU)[2]	CONDUIT TYPE	CONDUIT SIZE[6]
AUX-1	A.E. CABINET	AC BRANCH CIRCUIT	20	1	XHHW-2 (CU)	1	#12	10	0.40%	#12	#12	PVC	3/4"
AUX-1	ACCESSORY POWER	AC BRANCH CIRCUIT	20	1	XHHW-2 (CU)	1	#12	10	0.40%	#12	#12	PVC	3/4"
AUX-1	SPARE	AC BRANCH CIRCUIT	20	1	XHHW-2 (CU)	1	#12	10	0.40%	#12	#12	PVC	3/4"
A.E DAS (L1)	WEATHER STATION (L31)	WEATHER STATION POWER	N/A	2	XHHW-2 (CU)	1	#14	40	0.09%	N/A	#14	RMC	1-1/2"
A.E DAS (L1)	PY1 (L31)	COMMUNICATION/POWER	N/A	N/A	RS-485	1	N/A	40	N/A	N/A	N/A		
A.E. DAS (L1)	WEATHER STATION (L31)	COMMUNICATION	N/A	N/A	RS-485	1	N/A	40	N/A	N/A	N/A		
SEL-651R RELAY	POI(L51)	SWITCH POWER	N/A	2	XHHW-2 (CU)	1	#14	15	0.26%	N/A	#14	PVC	1"
POI (L51)	RECLOSER	COMM	N/A	N/A	CAT 5E	1	N/A	15	N/A	N/A	N/A		
INV-1 THROUGH INV-19	A.E. DAS (L1)	COMMUNICATION	N/A	N/A	CAT 5E	1	N/A	285	N/A	N/A	N/A	PVC	3/4"
A.E. DAS (L1)	POI (L51)	COMMUNICATION	N/A	N/A	MM FIBER OPTIC	1	N/A	1200	N/A	N/A	N/A	PVC	3/4"

NOTES:
1. CONDUCTOR SIZING ASSUMES THAT NO MORE THAN THREE-CURRENT CARRYING CONDUCTORS WILL BE INSTALLED IN EACH CONDUIT. SIZES MUST BE INCREASED IF CONDUIT IS TO BE SHARED BY MULTIPLE CIRCUITS.
2. EQUIPMENT GROUNDING CONDUCTORS SIZED 8AWG AND SMALLER THAT ARE SUBJECT TO PHYSICAL DAMAGE MUST BE INSTALLED IN A RACEWAY.
3. CONDUCTOR TERMINALS SHALL BE RATED TO 75°C MINIMUM ON AC EQUIPMENT, 90°C ON DC EQUIPMENT.
4. EACH PARALLEL SET IS ASSUMED TO CONTAIN (2-3) PHASE CONDUCTORS, (1) NEUTRAL AND (1) EGC CONTAINED IN (1) CONDUIT.
5. AC VOLTAGE DROP CALCULATIONS ASSUME POWER FACTOR = 1.
6. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

AUXILIARY POWER SCHEDULE

REV #	DESCRIPTION	DATE	BY
1	UPDATED AUXILIARY CONDUCTOR SCHEDULE	3/22/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AUXILIARY POWER SCHEDULE

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

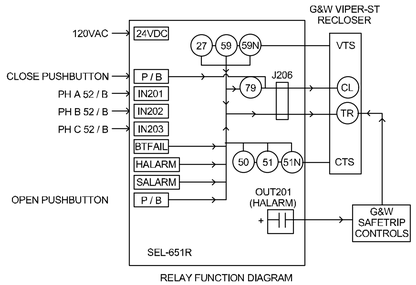
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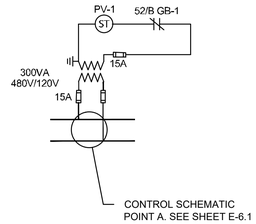
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3/22/2024

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C&A JOB#	5566.03
DRAWING:	E-6.7



RELAY FUNCTION DIAGRAM



CONTROL SCHEMATIC
POINT A. SEE SHEET E-6.1

DRAWING NOTES:

1. PV-1 BREAKER WILL BE INTERLOCKED TO TRIP WHEN THE GB-1 BREAKER IS OPEN. SEE CONTROL SCHEMATIC POINT B ON SHEET E-6.1.

AC CONTROL SCHEMATIC

REV #	DESCRIPTION	DATE	BY
1	SHEET ADDED PER NATIONAL GRID COMMENTS	3/5/24	JAT

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AC CONTROL SCHEMATIC

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DESIGN INFORMATION FOR PV MODULES TO BE INSTALLED

VSUN
Innovative & Smart

VSUN545-144BMH-DG

545W
Highest power output

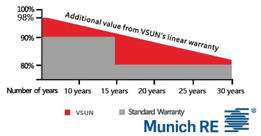
21.32%
Module efficiency

12years
Material & Workmanship warranty

30years
Linear power output warranty

VSUN545-144BMH-DG VSUN540-144BMH-DG
VSUN535-144BMH-DG VSUN530-144BMH-DG





- MBB technology with Circular Ribbon
- Higher output power
- Half-cell Technology
- Positive tolerance offer
- Micro Gap
- Up to 30% extra power generation yield from the back side
- Certified for salt/ammonia corrosion resistance
- Load certificates: wind to 2400Pa and snow to 5400Pa
- Lower LCOE

VSUN, a BNEF Tier-1 PV module manufacturer invested by Fuji Solar, has been committed to providing greener, cleaner and more intelligent renewable energy solutions. VSUN is dedicated to bringing reliable, customized and high-efficient products into various markets and customers worldwide.

Engineered in Japan
www.vsun-solar.com

最も信頼出来る再エネパートナー

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN545-144BMH-DG	VSUN540-144BMH-DG	VSUN535-144BMH-DG	VSUN530-144BMH-DG
Maximum Power - Pmax (W)	545	540	535	530
Open Circuit Voltage - Voc (V)	49.81	49.65	49.5	49.35
Short Circuit Current - Isc (A)	13.92	13.85	13.78	13.71
Maximum Power Voltage - Vmpp (V)	41.8	41.65	41.5	41.35
Maximum Power Current - Impp (A)	13.04	12.97	12.9	12.82
Module Efficiency	21.32%	21.13%	20.93%	20.74%

Standard Test Conditions (STC): irradiance 1,000 W/m², AM 1.5, module temperature 25°C. Pmax Sorting : 0~5W. Measuring Tolerance: ±3%.
Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Electrical Characteristics with different rear side power gain(reference to 540 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
567	49.65	14.54	41.65	13.62	5%
594	49.65	15.24	41.65	14.27	10%
648	49.75	16.62	41.61	15.56	20%
675	49.75	17.31	41.61	16.21	25%

Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.27%/°C
Current Temperature Coefficient	+0.048%/°C
Power Temperature Coefficient	-0.32%/°C

Maximum Ratings

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	70%±10%

Material Characteristics

Dimensions	2256×1133×35mm (L×W×H)
Weight	32.5kg
Frame	Silver anodized aluminum profile
Front Glass	High transparency,Antireflection coated,Semi-toughened safety glass, 2.0mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back Glass	Glazed & Semi-toughened safety glass, 2.0mm
Cells	12×12 pieces bifacial monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable&Connector	Potrait: 500 mm (cable length can be customized) , 1×4 mm 2 , compatible with MC4

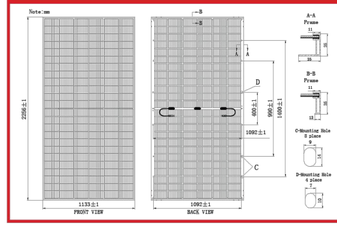
Packaging

Dimensions(L×W×H)	2290×1125×1253mm
Container 20'	150
Container 40'	300
Container 40'HC	600

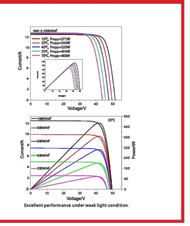
System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Maximum Surface Load	5,400 Pa
Application class	class A

Dimensions



IV-Curves



MODULE DATASHEET

NOTES:
1. CONNECTORS USED TO STRING VSUN MODULES TO BE PV-ZH202B-SCNR62 CONNECTORS. NO OTHER CONNECTOR TYPES ARE ACCEPTABLE FOR MATING TO THE MODULE CONNECTORS.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

MODULE DATASHEET

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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9/5/2024

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SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-7.0

DESIGN INFORMATION FOR INVERTERS TO BE INSTALLED

SUNNY HIGHPOWER PEAK3
125-US / 150-US / 165-US / 172-US



Cost effective
- Modular architecture reduces BOS and maximizes system uptime
- Compact design and high power density maximize transportation and logistical efficiency

Maximum flexibility
- Scalable 1,500 VDC building block with best-in-class performance
- Flexible architecture creates scalability while maximizing land usage

Simple install, commissioning
- Ergonomic handling and simple connections enable quick installation
- Centralized commissioning and control with SMA Data Manager

Highly innovative
- SMA Smart Connected reduces O&M costs and simplifies field-service
- Powered by award winning ennexOS cross sector energy management platform

SUNNY HIGHPOWER PEAK3
125-US / 150-US / 165-US / 172-US

A superior modular solution for large-scale power plants

The PEAK3 1,500 VDC inverter offers high power density in a modular architecture that achieves a cost-optimized solution for large-scale PV integrators. With fast, simple installation and commissioning, the Sunny Highpower PEAK3 is accelerating the path to energization. SMA has also brought its field-proven Smart Connected technology to the PEAK3, which simplifies O&M and contributes to lower lifetime service costs. The PEAK3 power plant solution is powered by the ennexOS cross sector energy management platform, 2018 winner of the Intersolar smarter E AWARD.

Technical Data	Sunny Highpower PEAK3 125-US	Sunny Highpower PEAK3 150-US	Sunny Highpower PEAK3 165-US	Sunny Highpower PEAK3 172-US
Input (DC)				
Maximum array power 1)	250 kWp	300 kWp	330 kWp	344 kWp
Maximum system voltage	1500 Vdc			
Rated MPP voltage range	705 V ... 1450 V	880 V ... 1450 V	924 V ... 1450 V	968 V ... 1450 V
MPPT operating voltage range	684 V ... 1500 V	855 V ... 1500 V	898 V ... 1500 V	941 V ... 1500 V
MPP trackers	1			
Maximum operating input current	180 A			
Maximum input short-circuit current	325 A			
Output (AC)				
Nominal AC power	125 kW	150 kW	165 kW	172 kW
Maximum apparent power	125 kVA	150 kVA	165 kVA	172 kVA
Output phases / line connections	3 / 3-PE			
Nominal AC voltage	480 V	600 V	630 V	660 V
Compatible transformer winding configuration	Wye-grounded			
Maximum output current	151 A			
Rated grid frequency	60 Hz			
Grid frequency / range	50 Hz, 60 Hz / -6 Hz ... +6 Hz			
Power factor at rated power / adjustable displacement	1 / 0.8 leading ... 0.8 lagging			
Harmonics (THD)	<3%			
Efficiency				
CEC efficiency	98.5 %	99.0 %	99.0 %	99.0 %
Protection and safety features				
Ground fault monitoring: Riso / Differential current	● / ●			
DC reverse polarity protection	●			
AC short circuit protection	●			
Monitored surge protection (Type 2): DC / AC	● / ●			
Protection class / overvoltage category (as per UL 840)	I / IV			
General data				
Device dimensions (W / H / D)	770 / 830 / 462 mm (30.3 / 32.7 / 18.2 in)			
Device weight	99 kg (218 lbs)			
Operating temperature range	-25°C ... +60°C (-13°F ... +140°F)			
Storage temperature range	-40°C ... +70°C (-40°F ... +158°F)			
Audible noise emission (full power @ 1m and 25°C)	< 69 dB(A)			
Internal consumption at night	< 5 W			
Topology	Transformerless			
Cooling concept	OptiCool (forced convection, variable speed fans)			
Enclosure protection rating	Type 4X			
Maximum permissible relative humidity (non-condensing)	100%			
Additional information				
Mounting	Rack mount			
DC connection	Terminal lug (up to 600 kcmil CU/AL)			
AC connection	Screw terminal (up to 300 kcmil CU/AL)			
LED indicators (Status/Fault/Communication)	●			
SMA Speedwire (Ethernet network interface)	● (2 x RJ45 ports)			
Data protocols: SMA Modbus / SunSpec Modbus	● / ●			
Integrated Plant Control / Q on Demand 24/7	● / ●			
Off-grid capable / SMA Hybrid Controller compatible	– / ●			
Monitoring				
SMA Sunny Portal (monitoring portal)	No cost for the lifetime of the system			
SMA Smart Connected (monitoring and remote O&M service)	No cost on inverters under warranty			
Supported protocols for outbound data	SMA external API, Modbus, FTP			
Certifications				
Certifications and approvals (pending)	UL 62109, UL 1998, CAN/CSA-C22.2 No.62109			
Manufacturer's Declaration of Design Life	25 years			
FCC compliance	FCC Part 15, Class A			
Grid interconnection standards	IEEE 1547:2018, UL 1741-SA - CA Rule 21, HECO Rule 14H, UL1741SB			
Advanced grid support capabilities	L/HFRT, L/HVRT, Volt-VAr, Volt-Watt, Frequency-Watt, Ramp Rate Control, Fixed Power Factor			
Warranty				
Standard	5 years			
Optional extensions	10 / 15 / 20 / 25 years			
Type designation	SHP 125-US-21	SHP 150-US-21	SHP 165-US-21	SHP 172-US-21

1) Higher DC array power permitted via site inverter load modeling in SMA Sunny Design

● Standard features ○ Optional features – Not available

Toll Free +1 888 4 SMA USA
www.SMA-America.com

SMA America, LLC

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INVERTER DATASHEET

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INVERTER DATASHEET

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
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	APPROVED BY: JSC		

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Job-Site Specific Health and Safety Plan

Elk St. Solar Project

Inovateus Solar™
DEVELOPMENT | ENGINEERING | PROCUREMENT | CONSTRUCTION

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Policies, Procedures, and other guidance documents that are referenced within this document are considered part of this Site-Specific Safety Plan and are compiled and maintained under separate cover

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1 Project/Site Information

Elk Street Solar Project – CleanCapital
503 Elk Street
Buffalo, NY 14210
Erie County

System Size: 3.6MW DC/2.3 MWAC

Latitude (Decimal): 42.864775 º N Longitude (Decimal): 78.834031 º W



1.1 Emergency Contact Information

Emergency Response Agencies	
Fire Department (Tell 911 operator which county you are in)	911 – Emergency
Police Department (Tell 911 operator which county you are in)	911 – Emergency
Emergency Medical Service	911
Mercy Hospital of Buffalo 565 Abbot Road Buffalo, NY 14220	(716) 826-7000
Nationwide Underground Utility Locate Center	811

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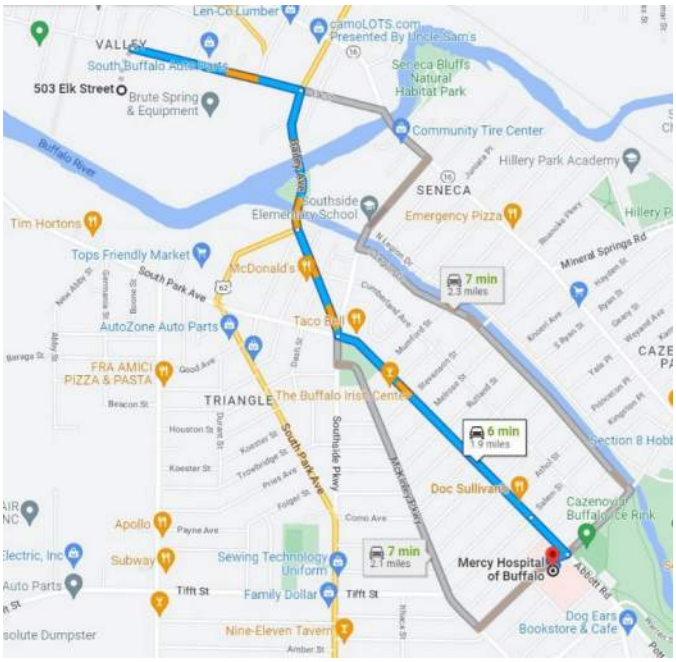
1.2 Onsite Emergency Contacts

Job-Site Project Personnel	
[Joaquin Corona] Inovateus Solar Construction Manager	Cell: (620) 388-0009 Email: joaquin.corona@inovateus.com
[Megan Drean] Inovateus Solar Project Manager	Cell: (248) 672-0620 Email: megan.drean@inovateus.com
[Elana Smith] Inovateus Solar Assistant Project Manager	Cell: (716) 310-3409 Email: Elana.smith@inovateus.com
[George Boyd] Inovateus Solar Project Quality Manager	Cell: (530) 340-1863 Email: George.Boyd@inovateus.com
[Dan Foster] Milestone Construction Partners Civil Subcontractor Project Manager	Cell: TBD Email: TBD
[Bryan Lampson] LBFNY Mechanical Project Manager	Cell: (585) 507-8271 Email: bryan@lbfny.com
[Yogi Gaona] LBFNY Mechanical Foreman	Cell: (863) 517-9343 Email: Yogi@lbfny.com
[Devyn Smith] Schuler-Haas Electrical Project Manager	Cell: (607) 481-8933 Email: Djsmith@schuler-haas.com
[Mike Rowntree] Schuler-Haas Electrical Foreman	Cell: TBD Email: mrowntree@schuler-haas.com

Note: Communication devices that will be used are verbal, cell phone or radios.

Mercy Hospital of Buffalo
565 Abbot Road
Buffalo, NY 14220
(716) 826-7000

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East on Elk Street, turn right onto Bailey Avenue. Left onto McKinlney Parkway, turn left onto Abbot Road, then right on Lorraine Avenue.

Travel time = 6 minutes

1.3 Job-Site COVID-19

Inovateus Solar takes the health and safety of our employees very seriously. With the spread of the coronavirus or "COVID-19," a respiratory disease caused by the SARS-CoV-2 virus, the Company must remain vigilant in mitigating the outbreak. In order to be safe and maintain operations, we have developed a COVID-19 Exposure Prevention, Preparedness, and Response Plan to be implemented, to the extent feasible and appropriate, throughout the Company and at all of our job sites. This Plan is based on information available from the CDC and OSHA at the time of its development, and is subject to change based on further information provided by the CDC, OSHA, and other public officials.

The Exposure Action Plan will be posted at the Job-Site and will cover the following:

1. Responsibilities of Managers and Supervisors
2. Responsibilities of Employees
3. Job-Site Protective Measures
4. Job-Site Cleaning and Disinfecting
5. Job-Site Exposure Situations
6. OSHA Recordkeeping
7. Confidential/Privacy
8. General Questions

OSHA and the CDC have provided the following control and preventative guidance for all employees, regardless of exposure risk:

- Frequently wash your hands with soap and water for at least 20 seconds. When soap and running water are unavailable, use an alcohol-based hand rub with at least 60% alcohol.

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- Avoid touching your eyes, nose, or mouth with unwashed hands.
- Follow appropriate respiratory etiquette, which includes covering for coughs and sneezes.
- Avoid close contact with people who are sick.

In addition, all employees and job-site personnel must familiarize themselves with the symptoms of COVID-19, which include the following:

- Coughing;
- Fever;
- Shortness of breath, difficulty breathing; and
- Early symptoms such as chills, body aches, sore throat, headache, diarrhea, nausea/vomiting, and runny nose.

If you develop a fever and symptoms of respiratory illness, such as cough or shortness of breath, DO NOT GO TO WORK and call your supervisor and healthcare provider right away. Likewise, if you come into close contact with someone showing these symptoms, call your supervisor and healthcare provider right away.

NOTE: If an employee has tested POSITIVE for COVID-19, they are required to be tested twice (tests 24 hours apart) with NEGATIVE test results before returning to work.

COVID-19 Health Assessment

1. Are you currently experiencing, or recently experienced, any acute respiratory illness symptoms such as fever, cough, or shortness of breath?
2. Have you been in close contact with any person who has been confirmed positive for COVID-19?
3. Have you been in close contact with any person who may have COVID-19, but is yet to be confirmed?
4. Have you been in close contact with any person, such as a family member, who is experiencing symptoms or has been confirmed positive with COVID-19?
5. Have you traveled internationally in the last 14 days?

If you answer **YES** to any of the questions above, **DO NOT** come to the job-site.

1.4 Site Security and Access

Access to the Project Job Site is restricted to authorized personnel only. All employees, subcontractors, suppliers and visitors must report to the Inovateus trailer to sign-in and receive a site safety orientation.

Site visitors will be required to give a 48-hour notice prior to their arrival and check-in at the site trailer when they arrive. Site visitors will be given a brief site safety orientation and PPE requirements.

Cameras or other electronic equipment may not be used without prior approval from the Construction Manager and Client's Project Manager.

No weapons of any kind are allowed on site.

1.4.1 Security of Personnel and Assets

Site security is vital for protecting not only equipment and other valuable assets, but protects on-site personnel as well.

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The Inovateus Solar Construction Manager and Inovateus Solar Project Manager are responsible for ensuring that tools, vehicles, equipment, computers and facilities are secured at the end of the workday. Thefts and vandalism are crimes of opportunity that can often be prevented by removing the keys from vehicles and equipment, locking office doors, securing supplies and equipment and providing exterior lighting. Under certain circumstances and when authorized by the client, private security patrols may be provided.

1.4.2 Workplace Violence

Inovateus Solar has a zero-tolerance policy towards acts of workplace violence. Inovateus Solar will not tolerate threats, threatening behavior, harassment, stalking, or any other acts of violence against any of its employees, or any other person on Inovateus Solar job sites by anyone, including members of the public and an employee's family or household members.

Any individual who makes threats, stalks, displays threatening behavior, or commits violent acts on Inovateus Solar job sites shall be removed from the premises as quickly as safety permits, and law enforcement will be immediately contacted. Inovateus Solar will respond to the behavior based on the needs of the affected employees and in a manner that protects all job site personnel and eliminates the threat of further such acts, to the extent possible.

Job site personnel shall assist Inovateus Solar in maintaining a violence-free workplace by reporting warning signs or incidents of violent behavior immediately to their supervisor. All reports will be investigated and kept strictly confidential.

All job site personnel are responsible for making this report regardless of the relationship between the individual who initiated the behavior and the person(s) who were threatened or were the focus of the threatening behavior.

1.5 Site Safety and PPE Requirements

All authorized site personnel will:

- Understand and comply with all applicable regulations, standards, and requirements
- Follow the requirements of the Site-Specific Health and Safety Plan
- Follow safe work and conduct practices at all times
- Wear the appropriate Personal Protective Equipment (PPE) at all times
- Use the appropriate tools and equipment required for the job in the way they were meant to be used
- Operate machinery and equipment only if qualified and authorized to do so
- Remove from service any defective or malfunctioning tools, equipment, structures, and protective clothing
- Refuse to perform work that may cause imminent danger to one's self or others
- Report all unsafe conditions or conduct immediately to their Foreman and the Inovateus Project Safety Manager
- Keep the workplace tidy and safe
- Report any near misses, injuries, illnesses, or property damage immediately
- Report to work in a condition to perform his/her job in a safe, competent manner

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1.6 Project Safety Kick-Off Meeting

A project safety kick-off meeting to review this site-specific health and safety plan shall be held before commencing any construction. All personnel directly involved with the Project Job Site will attend and acknowledge attendance to this meeting. This meeting will establish:

- Project safety objectives
- COVID-19 requirements
- Subcontractor Foreman safety responsibility
- General safety and conduct rules
- Fall protection methods
- First aid requirements, emergency phone numbers and map to nearest Urgent Care Center
- Fire hazard protection requirements
- Safety orientation requirements
- Potential hazards and special conditions
- Inclement weather response procedures
- Hazardous chemicals and required SDS sheets
- Essential coordination requirements with the site host
- Staging plan
- Delivery schedule and procedures

Upon completion of this meeting, attending personnel will receive a safety sticker for their hard hat that identifies them as having attended this meeting. New personnel to the site must be given the same site-specific project safety orientation prior to beginning any work.

2 Management Commitment to Safety

Our Health and Safety Program, and specific individual programs, have been developed to assure compliance with federal, state, and local regulations. We believe all accidents are preventable. Therefore, we will make every effort to prevent accidents and comply with all established safety and health laws and regulations.

3 Inovateus Health and Safety Policy

Inovateus Solar is committed to an Occupational Health and Safety (OHS) program that provides a safe and healthy work environment for all of its employees, subcontractors, and customers. Inovateus Solar will follow operating practices that will safeguard employees, the public and company operations.

The safety objective for lost time and medical aid injuries by personnel on Inovateus Solar facilities and Inovateus Solar project sites is set at ZERO. A teamwork approach focusing on a cooperative effort between management, employees, subcontractors, and site owners is essential in order to meet this objective. Every person, to the highest level of management, must exert every effort to eliminate personal injury, equipment loss, or damage to facilities.

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In order to achieve this, Inovateus Solar management and staff will:

- Demonstrate leadership and commitment through all its managers and supervisors.
- Provide and maintain a working environment that is safe and without risk to health, and provide appropriate facilities for welfare from the start of all projects.
- Establish measurable objectives and goals to ensure continued improvement aimed at elimination of work-related injury and illness.
- Ensure that there are clear lines of communication between management and on-site operations, and that this Policy is made available to all interested parties.
- Ensure that adequate arrangements are put in place for the effective planning, development and review of this Health and Safety Policy.
- Ensure that the Policy and implementation of the arrangements are monitored and reviewed on a regular basis and that they reflect the Company's performance objectives and targets, and to ensure continuous improvement.

Safety is never an accident. It is always the result of high intention, sincere effort, intelligent direction and skillful execution. It represents the wise choice of many alternatives.

John Jackson
COO, Inovateus Solar



(Signature) 02/17/2022 (Date)

4 Objective

All work practices and procedures implemented on site will be designed to minimize associate contact with hazardous materials and to reduce the possibility of physical injury. The Inovateus PM, FPM and Project Safety Manager shall ensure that all subcontractors comply with federal, state, local, and client site safety rules and regulations as well as their own safety programs. All work will be performed in accordance with the following:

- Occupational Safety and Health Administration (OSHA) regulations found in Title 29 of the Code of Federal Regulations (CFR) Parts 1910 and 1926
- National Institute for Occupational Safety and Health (NIOSH) Publications 85-115
- American Conference of Governmental Industrial Hygienists (ACGIH) Publication Threshold Limit Values and Biological Exposure Indices
- US Environmental Protection Agency (EPA) Publication No. PB9285.1-03
- American National Standards Institute (ANSI) guidelines (various)

4.1 Modifications to the Site-Specific Health and Safety Plan

The procedures and guidelines contained herein were based upon the best available information at the time of the plan's preparation. Specific requirements will be revised when new information is

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received or conditions change. Any amendments to this plan will be documented and approved by the Sr VP of Corporate Safety and the onsite Field Project Manager.

4.2 Application of Behavior Based Safety (BBS)

Behavior Based Safety (BBS) is utilized to prevent or reduce losses and safety incidents using tools and management techniques to achieve a safe work environment. This is accomplished by focusing on work activities and behaviors and identifying and eliminating hazards before an incident occurs. BBS is implemented as follows:

- Job Hazard Analysis (JHA) – developed for all major work tasks and processes, reviewed before the task is done (daily, if applicable,) and updated or revised as needed to address changes in the workplace, equipment, personnel, etc.

4.3 Stop Work Authority

All on-site personnel are empowered, are expected, and have the responsibility to stop their own work and the work of co-workers, client employees, or other contractors if any person's safety or the environment is at risk. NO repercussions will result from this action.

Site or project conditions that are possible reasons to stop work and to consider modifications to the Site-Specific Health and Safety Plan include:

- Deviation from planned work activities. The deviation must be discussed and approved by the Project Manager and the Field Project Manager before work can proceed.
- Recognition of new or unidentified hazards
- Site temperatures (possibly resulting in greater risk of heat or cold stress)
- PPE breakthrough or unexpected degradation
- Unusual odors that can't be identified

This list is not a comprehensive list and should be used only as guidance.

4.4 Subcontractor Coordination

Supporting the Inovateus Site-Specific Health and Safety Plan is a requirement for all subcontractor personnel. Inovateus' Site-Specific Health and Safety Plan will be made available for review and will be adopted by the subcontractor. This plan is applicable to the subcontractors insofar as Inovateus will be directing the work. If subcontractors perform work not addressed in Inovateus' Site-Specific Health and Safety Plan, a pre-task meeting shall be held to define the scope of work, hazards, mitigations, responsible personnel, and safe work procedures. The subcontractor will provide Inovateus with a copy of their Health and Safety Plan and/or safe work procedures and JHA's applicable to the job tasks being performed.

All subcontractors will:

- Participate in site safety meetings and safe work practices.
- Supply their own PPE and other safety equipment.
- Be responsible for the safety and wellbeing of their personnel and the condition and maintenance of their equipment, vehicles, and tools.
- Engage in pre-task meetings with the Inovateus Field Project Manager and Project Safety Manager to establish scope of work, hazard assessment, mitigation actions, and responsible persons.

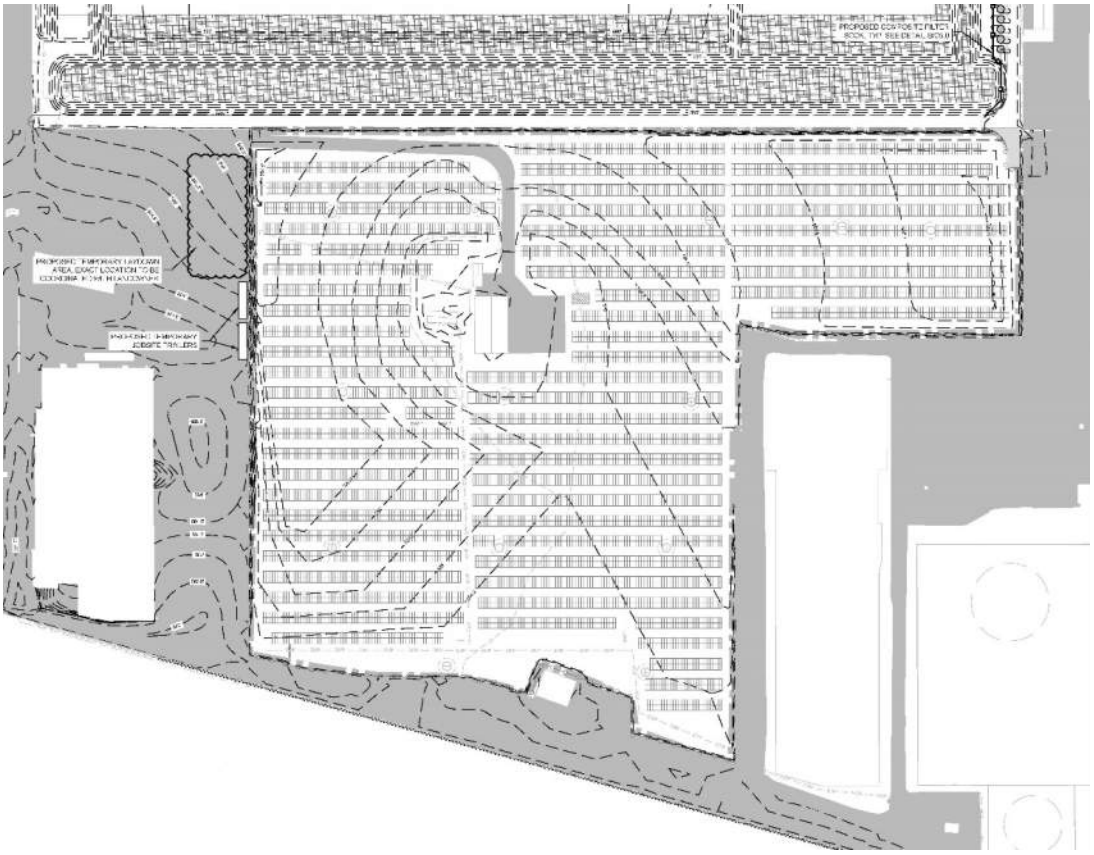
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5 Scope of Work

The scope of work includes work associated with constructing a 3.6 MW DC ballasted mount solar array on approximately 11 acres of a capped brownfield in Erie County, New York. The solar installation will consist of 1 fenced in array located south of Elk Street, bordered by Babcock Street to the west and Buckeye Terminals to the east. This Plan covers the following construction components:

- Mobilization
- Perimeter Fencing
- Civil Installation
- Construction of Solar Array (Mechanical & Electrical)
- Restoration

5.1 Site Plan



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6 Safety Plan-at-a-Glance

6.1 Mobilization

Acknowledgements - *See table of emergency contacts for telephone numbers.*

Responsibility	Name	Signature	Date
Inovateus Construction Manager	Joaquin Corona	DocuSigned by: 58EFEE42E36542F...	1/15/2024 | 9:00 A

This summary is provided for a quick reference for field activities at the project site. The remainder of this site-specific health and safety plan provides general health and safety procedures that must be adhered to while conducting work at the project site. Procedures for updating or amending this site-specific health and safety plan are outlined in Section 4.1.

Project Activities

Mobilization includes establishment of the field office, mobilizing equipment to the work area, locating utilities, and reviewing existing site conditions. Most activities will be performed in and around the area designated for Inovateus support activities.

Hazard Analysis

Mobilization activities could be affected by the following physical hazards:

- Exposure to nuisance dust
- Pinch points/sharp objects
- Noise
- Vehicle traffic
- Slip, trips, falls
- Heavy lifting
- Fires
- Weather, including heat or cold stress
- Underground and overhead utilities
- Uneven terrain
- Hand injuries

Mobilization activities could be affected by the following biological hazards:

- Insect bites and stings
- Poisonous plants
- Snakes

Minimum Protective Clothing and Equipment Requirements

Level D personal protective equipment (PPE) is anticipated for this task and is defined below.

Level D PPE	
Protective Gear	**Type**
Respiratory protection	None

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Hand protection: inner gloves	None
Hand protection: outer gloves	None
Foot protection: inner boots	Safety toe, leather work boots
Foot protection: outer boots	None; metatarsal guards
Head protection	Standard hard hat
Eye protection	Standard safety glasses with side shield or goggles
Splash protection	Standard face shield
Other protective clothing	High visibility, reflective vest or class 3 shirt
Hearing protection	Ear plugs or muffs with NRR of at least 25
Associates may wear Tyvek or similar coveralls as protection from ticks and insects.	

Engineering and Administrative Controls

All activities will be conducted in accordance with provisions outlined in Section 9. All field personnel will notify the site Inovateus Construction Manager (CM) when reporting for and leaving work by signing in at the on-site trailer.

Fire extinguishers must be available in the trailer and each vehicle or piece of equipment.

Dust suppression will be accomplished using water trucks to keep dust levels low.

6.2 Construction of the Solar Array

Acknowledgements - *See table of emergency contacts for telephone numbers.*

Responsibility	Name	Signature	Date
Inovateus Director of Project Management	Todd Collins	DocuSigned by: Todd Collins 6BD858F1A601419...	1/23/2024 | 11:19 A
Inovateus Construction Manager	Joaquin Corona	DocuSigned by: 58EFEE42E36542F...	1/15/2024 | 9:00 A
Inovateus Project Manager	Megan Drean	DocuSigned by: Megan Drean DC48D49B8E6444A...	1/12/2024 | 1:50 PI
Civil Subcontractor (Milestone Construction)	Matthew Beres	DocuSigned by: Matthew Beres B810E65968ED447...	1/15/2024 | 3:02 P
Electrical Subcontractor (Schuler-Haas)	Devyn Smith	DocuSigned by: Devyn Smith 6C8A8482C0E4489...	1/15/2024 | 3:16 P
Mechanical Subcontractor (LBFNY)	Bryan Lampson	DocuSigned by: Bryan Lampson 6DBFB77E41C5474...	1/15/2024 | 3:43 P

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Fencing Subcontractor	Christine Watt	DocuSigned by: Christine Watt C18A01424C0E43B...	1/20/2024 | 5:51
Surveying GPI	Mark Andrews	DocuSigned by: Mark Andrews 7D5F9C1FF4F046F...	1/22/2024 | 1:28

This summary is provided for a quick reference for field activities. The remainder of this site-specific health and safety plan provides general health and safety procedures that must be adhered to while conducting work at the project site. Procedures for updating or amending this site-specific health and safety plan are outlined in Section 4.1.

Project Activities

Solar Array Construction includes establishment of an access road, staging area, and construction of the array itself. This task will be conducted in accordance with project specification and will utilize heavy equipment (skid steer, fork lift, utility vehicle, crane, and tugger).

Hazard Analysis

Solar Array Construction activities could be affected by the following physical hazards:

- Exposure to nuisance dust
- Pinch points/sharp objects
- Noise
- Vehicle traffic
- Slip, trips, falls
- Heavy lifting
- Fires
- Weather, including heat or cold stress
- Underground and overhead utilities
- Uneven terrain
- Hand injuries
- Thunderstorms (tornado, flash flood)
- Penetration of brownfield cap

Solar Array Construction activities could be affected by the following biological hazards:

- Insect bites and stings
- Poisonous plants
- Snakes

Minimum Protective Clothing and Equipment Requirements

Level D personal protective equipment (PPE) is anticipated for this task and is defined below.

Level D PPE	
Protective Gear	**Type**
Respiratory protection	None
Hand protection: inner gloves	None
Hand protection: outer gloves	CUT3 rated work gloves as needed

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Foot protection: inner boots	Safety toe, leather work boots
Foot protection: outer boots	None; metatarsal guards
Head protection	Standard hard hat
Eye protection	Standard safety glasses with side shield or goggles
Splash protection	Standard face shield
Other protective clothing	High visibility, reflective vest or class 3 shirt
Hearing protection	Ear plugs or muffs with NRR of at least 25
Associates may wear Tyvek or similar coveralls as protection from ticks and insects.	

Engineering and Administrative Controls

All activities will be conducted in accordance with provisions outlined in Section 9. All field personnel will notify the site Inovateus Field Project Manager (FPM) when reporting for and leaving work by signing in at the on-site trailer.

Fire extinguishers must be available in the trailer and each vehicle or piece of equipment.

Dust suppression will be accomplished using water trucks to keep dust levels low.

6.3 Construction of Overhead Lines

Acknowledgements - *See table of emergency contacts for telephone numbers.*

Responsibility	Name	Signature	Date
Inovateus Construction Manager	Joaquin Corona	DocuSigned by:	1/15/2024 | 9:00 A
Electrical Subcontractor (Schuler-Haas)	Devyn Smith	DocuSigned by: Devyn Smith 6C6A8462C0F4489...	1/15/2024 | 3:16 P

This summary is provided for a quick reference for field activities at the project site. The remainder of this site-specific health and safety plan provides general health and safety procedures that must be adhered to while conducting work at the project site. Procedures for updating or amending this site-specific health and safety plan are outlined in Section 4.1.

Project Activities

This task involves the construction of the overhead lines. This includes erection of the poles, attachment of equipment, and associated overhead line work. All spoils resulting from pole drilling are to be redeposited at the base of each pole once erected. A combination of heavy equipment (bucket truck, mini-excavator, skid steer, power auger) and manual labor will be utilized to accomplish this task.

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Hazard Analysis

Overhead Line Construction activities could be affected by the following physical hazards:

- Exposure to nuisance dust
- Pinch points/sharp objects
- Noise
- Vehicle traffic
- Slip, trips, falls
- Heavy lifting
- Fires
- Weather, including heat or cold stress
- Underground and overhead utilities
- Uneven terrain
- Hand injuries
- Thunderstorms

Overhead Line Construction activities could be affected by the following biological hazards:

- Insect bites and stings
- Poisonous plants
- Snakes

Minimum Protective Clothing and Equipment Requirements

Level D personal protective equipment (PPE) is anticipated for this task and is defined below.

Level D PPE

Protective Gear	Type
Respiratory protection	None
Hand protection: inner gloves	None
Hand protection: outer gloves	CUT3 rated work gloves as needed
Foot protection: inner boots	Safety toe, leather work boots
Foot protection: outer boots	None; metatarsal guards
Head protection	Standard hard hat
Eye protection	Standard safety glasses with side shield or goggles
Splash protection	Standard face shield
Other protective clothing	High visibility, reflective vest or class 3 shirt
Hearing protection	Ear plugs or muffs with NRR of at least 25
Associates may wear Tyvek or similar coveralls as protection from ticks and insects.	

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Engineering and Administrative Controls

All activities will be conducted in accordance with provisions outlined in Section 9. All field personnel will notify the site Inovateus Field Project Manager (FPM) when reporting for and leaving work by signing in at the on-site trailer.

Fire extinguishers must be available in the trailer and each vehicle or piece of equipment.

Dust suppression will be accomplished using water trucks to keep dust levels low.

6.4 Restoration

Acknowledgements - *See table of emergency contacts for telephone numbers.*

Responsibility	Name	Signature	Date
Inovateus Construction Manager	Joaquin Corona	DocuSigned by: 58EFEE42E36542F...	1/15/2024 | 9:00 A
Civil Subcontractor (Milestone Construction)	Matthew Beres	DocuSigned by: Matthew Beres B810F65968ED447...	1/15/2024 | 3:02 P

This summary is provided for a quick reference for field activities at the project site. The remainder of this site-specific health and safety plan provides general health and safety procedures that must be adhered to while conducting work at the project site. Procedures for updating or amending this site-specific health and safety plan are outlined in Section 4.1.

Project Activities

Restoration includes seeding and resurfacing of turf areas impacted by construction of the solar arrayand overhead line work. This task will be conducted in accordance with project specification and will utilize heavy equipment (skid steer, wheel loader, seeding equipment) and manual labor to accomplish this task.

Restoration activities could be affected by the following physical hazards:

- Exposure to nuisance dust
- Pinch points/sharp objects
- Noise
- Vehicle traffic
- Slip, trips, falls
- Heavy lifting
- Fires
- Weather, including heat or cold stress
- Underground and overhead utilities
- Uneven terrain
- Hand injuries
- Thunderstorms

Restoration activities could be affected by the following biological hazards:

- Insect bites and stings
- Poisonous plants
- Snakes

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Minimum Protective Clothing and Equipment Requirements

Level D personal protective equipment (PPE) is anticipated for this task and is defined below.

Level D PPE	
Protective Gear	**Type**
Respiratory protection	None
Hand protection: inner gloves	None
Hand protection: outer gloves	CUT3 rated work gloves as needed
Foot protection: inner boots	Safety toe, leather work boots
Foot protection: outer boots	None; metatarsal guards
Head protection	Standard hard hat
Eye protection	Standard safety glasses with side shield or goggles
Splash protection	Standard face shield
Other protective clothing	High visibility, reflective vest or class 3 shirt
Hearing protection	Ear plugs or muffs with NRR of at least 25
Associates may wear Tyvek or similar coveralls as protection from ticks and insects.	

Engineering and Administrative Controls

All activities will be conducted in accordance with provisions outlined in Section 9. All field personnel will notify the site Inovateus Field Project Manager (FPM) when reporting for and leaving work by signing in at the on-site trailer.

Fire extinguishers must be available in the trailer and each vehicle or piece of equipment.

Dust suppression will be accomplished using water trucks to keep dust levels low.

6.5 Maintenance

Acknowledgements - *See table of emergency contacts for telephone numbers.*

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Responsibility	Name	Signature	Date
Inovateus Director of Project Management	Todd Collins	DocuSigned by: Todd Collins 6BD858F1A601419...	1/23/2024 | 11:19 A
Inovateus Construction Manager	Joaquin Corona	DocuSigned by: 58EFEE42E36542F...	1/15/2024 | 9:00 A
Inovateus Project Manager	Megan Drean	DocuSigned by: Megan Drean	1/12/2024 | 1:50 P
Civil Subcontractor (Milestone Construction)	Matthew Beres	DocuSigned by: Matthew Beres	1/15/2024 | 3:02 PM
Electrical Subcontractor (Schuler-Haas)	Devyn Smith	DocuSigned by: Devyn Smith 6C6A8462C0F4489...	1/15/2024 | 3:16 P
Mechanical Subcontractor (LBFNY)	Bryan Lampson	DocuSigned by: Bryan Lampson	1/15/2024 | 3:43 PM
Fencing Subcontractor	Christine Watt	DocuSigned by: Christine Watt C18A01424C0E43B...	1/20/2024 | 5:51 PM

This summary is provided for a quick reference for field activities at the project site. The remainder of this site-specific health and safety plan provides general health and safety procedures that must be adhered to while conducting work at the project site. Procedures for updating or amending this site-specific health and safety plan are outlined in Section 4.1.

Project Activities

This task includes maintenance of the access road, staging area, and solar array. This task will be conducted in accordance with project specification and will utilize heavy equipment (skid steer) and manual labor to accomplish this task.

Maintenance activities could be affected by the following physical hazards:

- Exposure to nuisance dust
- Pinch points/sharp objects
- Noise
- Vehicle traffic
- Slip, trips, falls
- Heavy lifting
- Fires
- Weather, including heat or cold stress
- Underground and overhead utilities
- Uneven terrain
- Hand injuries
- Thunderstorms

Maintenance activities could be affected by the following biological hazards:

- Insect bites and stings

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- Poisonous plants
- Snakes

Minimum Protective Clothing and Equipment Requirements

Level D personal protective equipment (PPE) is anticipated for this task and is defined below.

Level D PPE	
Protective Gear	**Type**
Respiratory protection	None
Hand protection: inner gloves	None
Hand protection: outer gloves	CUT3 rated work gloves as needed
Foot protection: inner boots	Safety toe, leather work boots
Foot protection: outer boots	None; metatarsal guards
Head protection	Standard hard hat
Eye protection	Standard safety glasses with side shield or goggles
Splash protection	Standard face shield
Other protective clothing	High visibility, reflective vest or class 3 shirt
Hearing protection	Ear plugs or muffs with NRR of at least 25
Associates may wear Tyvek or similar coveralls as protection from ticks and insects.	

Engineering and Administrative Controls

All activities will be conducted in accordance with provisions outlined in Section 9. All field personnel will notify the site Inovateus Field Project Manager (FPM) when reporting for and leaving work by signing in at the on-site trailer.

Fire extinguishers must be available in the trailer and each vehicle or piece of equipment.

Dust suppression will be accomplished using water trucks to keep dust levels low.

7 Assignment of Responsibilities

7.1 Inovateus Project Manager

The Project Manager will report directly to the client and ensure all project members strive for zero incidents. The responsibilities of the Project Manager will be the successful completion of the project, but the number one goal will be a safe and healthy work site with zero incidents.

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7.2 Inovateus Field Project Manager

The Inovateus Field Project Manager (FPM) will be responsible for directing all site personnel, equipment, subcontractors, and activities to ensure a safe and successful implementation of the on-site activities. The FPM will have overall responsibility for the health and safety of site personnel which will include the following:

- The FPM will ensure adequate resources are provided to carry out established health and safety responsibilities,
- will enforce the Site-Specific Health and Safety Plan,
- will ensure proper communications are established for emergency response,
- will coordinate the planning and implementation of all site activities,
- and ensure site personnel are knowledgeable of site hazards.

7.3 Job-Site QC/Closeout Engineer

The QC/Closeout Engineer assists with and monitors quality control activities (inspections/observations) which directly affect customer requirements and final completion. He also oversees and coordinates all project commissioning and closeout activities associated to Mechanical Completion, Substantial Completion and Final Completion.

- The QC/Closeout Engineer will coordinate QC activities, resolve quality issues and monitor project progress,
- will approve all finished commissioning activities by confirming specifications and conducting required tests,
- will document and update inspection results by completing reports and logs,
- and approve in-process activities (Quality at the Source) by confirming required specifications, conducting visual and measurement tests, and communicating the required adjustments to the Project Manager and FPM.

7.4 Job-Site Field Project Supervisor

The Inovateus Field Project Supervisor will mirror the FPM's responsibilities in assigned areas by directing site personnel, equipment, subcontractors, and activities to ensure a safe and successful implementation of the on-site activities. The Field Project Supervisor will be responsible for the health and safety of site personnel in assigned area which will include the following:

- The Field Project Supervisor will ensure adequate resources are provided to carry out established health and safety responsibilities,
- will enforce the Site-Specific Health and Safety Plan,
- will ensure proper communications are established for emergency response,
- will coordinate the planning and implementation of assigned area's activities,
- and ensure personnel are knowledgeable of site hazards.

7.5 Job-Site Project Safety Manager

Working under the direction of the FPM, the Job-Site Project Safety Manager has the authority to provide job-site safety leadership and ensures project compliance with OSHA safety standards, implements safety directives, improves safety performance, and ensures on-site safety policies and procedures are aligned with customer's safety plan by performing the following:

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Essential Duties and Responsibilities include the following. Other duties may be assigned.

- Identify best practices and lead continuous improvement initiatives to reduce work process risks, raise safety awareness, and improve safe work practices.
- Facilitate a work environment that supports a safe and healthy culture.
- Perform safety audits and inspects job-site, machinery, and safety equipment to identify and correct potential hazards, and to ensure safety regulation compliance.
- Investigate accidents, near-miss incidents, property damage incidents and occupational injuries to determine causes, and install preventive measures.
- Work within company policy as outlined in the Inovateus Solar's Health & Safety Program Handbook, this Job-Site Specific Health and Safety Plan, and in compliment with customer job-site Safety Manual and OSHA Safety rules.

7.6 Inovateus Subcontractors

Subcontractors shall establish and maintain an effective safety and health program that at the least equals that of the Inovateus Solar's Safety and Health Program. The subcontractor shall be solely responsible for implementing the safety program and shall have sole responsibility for monitoring the work of its employees, subcontractors, agents, vendors and suppliers to ensure compliance.

7.6.1 Designation of Competent Person

Each subcontractor shall designate a competent person as defined by OSHA to implement and enforce the safety requirements. A competent person from each subcontractor must be on site whenever they have employees working on site, and the name of that person shall be submitted on the Inovateus Solar Daily Report. Each subcontractor is required to maintain this position, and a competent person[s] will remain on-site until the completion of their work. The subcontractor shall not relinquish or defer responsibility for project safety to his own or subcontractor employees at any time under any circumstances. Inovateus Solar may require the subcontractor to employ a full-time qualified safety representative.

7.6.2 Communication

Each Inovateus subcontractor is responsible for consistently completing their work in a safe manner with a common goal of zero incidents, asking questions if the task is not understood, and communicating the Site-Specific Health and Safety Plan to their employees. Each subcontractor will also be responsible for the following:

- Report any unsafe or potentially hazardous conditions to the Project Safety Manager
- Comply with rules, regulations, and procedures as set forth in this Site-Specific Health and Safety Plan
- Express safety ideas or concerns in the daily safety meetings
- Perform a JHA before performing any task
- Utilize "Stop Work Authority" if required

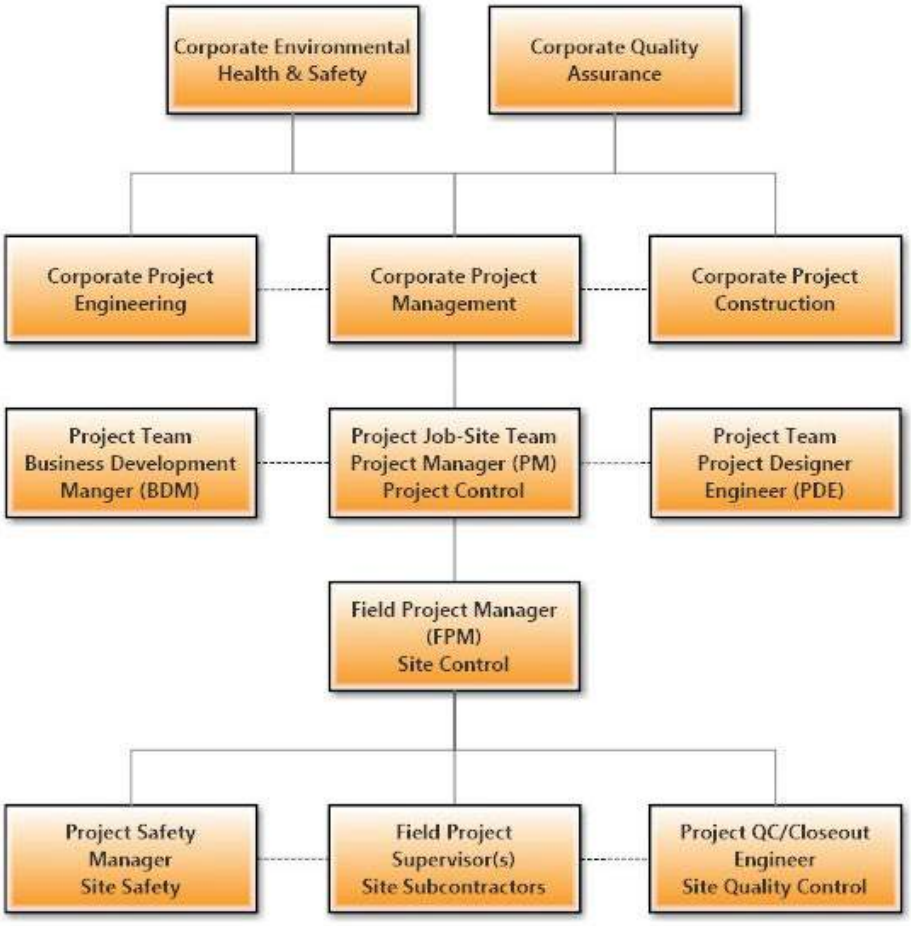
By signing the Health and Safety Plan Acknowledgment Form, subcontractors are recognizing the potential hazards present on-site and the policies and procedures required to minimize exposure and/or adverse effects of these hazards.

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In addition to following the Site-Specific Health and Safety Plan, subcontractors are obligated to abide by Inovateus' Subcontractor Site Safety Requirements and Procedures defined under separate cover.

7.7 Other Job-Site Personnel

Examples of other personnel that may be on site include representatives of the Federal, State, and county agencies, other Inovateus employees, as well as Inovateus' client. Any person who observes safety problems should immediately report observations or concerns to appropriate key personnel. Although other personnel typically only make on-site observations, they will be expected to read and abide by the Site-Specific Health and Safety Plan, and receive a documented site orientation. Should the above-mentioned personnel refuse to abide by site safety requirements, work will be stopped while these personnel are on site. Every Inovateus associate has the authority and obligation to stop work to prevent incidents and injuries.



Project Organizational Chart

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8 Training and Monitoring Requirements

8.1 Site-Specific Training

All job site personnel will receive instruction on this Site-Specific Health and Safety Plan as part of the Project orientation. The instructions will cover the contents of this Health and Safety Plan, including roles and responsibilities, a review of job hazard analysis, and safe work practices. The site's emergency response and evacuation practices will be reviewed as well.

Additional training must be provided:

- when there are any changes to the plan or facility, and
- when an employee's responsibilities change.

Items for review during the training include:

- PPE requirements,
- proper housekeeping,
- individual responsibilities,
- Emergency Action Plan,
- equipment being used,
- site layout,
- locations of fire extinguishers, eye wash stations, and first aid locations,
- reporting of all incidents, including vehicle or equipment damage,
- daily safety meetings,
- hazards associated with working near overhead or underground utilities, and
- hazardous chemicals present at the site.

Attendance at tailgate safety meetings, which are held each morning, is also required. Topics of the tailgate safety meetings will include a discussion of that day's activities and the potential hazards which may be encountered. The Inovateus Project Safety Manager or designee will lead the meetings and record the topic(s) discussed. All field team members are required to sign-in to document their attendance. Meeting topics will include pertinent safety information.

9 Job Site Hazard Analysis

While not all potential site hazards can be identified during site-specific safety development, many can be anticipated. This section discusses the anticipated hazards and offers controls to minimize risk.

9.1 Chemical Hazards

The use of chemicals is anticipated to be minimal at the site. A brief list is included below of certain chemicals that may be necessary. Any additional chemicals used will be added to the list and the SDS will be added to the SDS folder located at the Inovateus project trailer or administrative offices.

- Gasoline
- Diesel
- Hydraulic Oil
- Motor Oil
- Petroleum Grease

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SDS will be discussed at the initial site safety orientation and daily safety meetings as applicable. Site personnel will comply with OSHA Hazard Communication Standards (Right-To-Know) and Inovateus Hazard Communication Program. All containers received on site will be inspected by the FPM/Designee.

OSHA and the EPA have established a chemical safety data bank for quick reference to over 800 chemicals. While this does not replace the need for an SDS, it is a quick reference for chemical safety and PEL information.

9.2 Non-Chemical Hazards

Physical hazards, such as those associated with excavation, heavy equipment, debris removal, and other construction activities, will likely pose the greatest potential for injury at the site. Physical hazards can be caused by the following:

- Underground and overhead utilities
- Heavy equipment
- Noise
- Weather
- Slip, trip, and fall
- Fire protection
- Debris removal
- Traffic
- Water hazards
- Hazardous energy sources (lock-out/tag-out)
- Hand injury hazards
- Hot work
- Unique site-specific hazards

Injuries that may result from these physical hazards can range from simple slip-trip-fall types of incidents to casualties, including fatalities due to moving or rotating equipment, electrocution, engulfment, or other activities related to construction. If there is any deviation from planned work activities, stop work authority must be initiated immediately. The deviation must be discussed and approved by the FPM before work can proceed.

Each of the above-mentioned physical hazards are discussed below.

9.2.1 Underground and Overhead Utilities

Before heavy equipment is used, all utilities (electric, natural gas, water, sewer lines, etc.) must be identified. Inovateus will contact the Nationwide Underground Utility Locate Center at 811 for locating utilities and pipelines on the property. Each day before work begins utility locations will be discussed as they relate to planned activities. Deviation from planned activities must be discussed and approved by the FPM. Additional training that addresses working around high voltage overhead electrical lines will be completed in the site orientation.

CALL BEFORE YOU DIG

YOU MUST CALL FOR A FREE MARKOUT THREE FULL BUSINESS DAYS BEFORE YOU DIG

811

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9.2.1.1 Power Line Safety for Motor Vehicles and Mechanized Equipment

Power line safety for motor vehicles and mechanized equipment shall comply with 29 CFR 1926.600(a)(6). The operation of equipment including excavators, dump trucks, loaders, and motor vehicles, in the vicinity of overhead utilities shall comply with the following requirements when working or being moved in the vicinity of power lines or energized transmitters, except where electrical distribution and transmission lines have been de-energized and visibly grounded at point of work or where insulating barriers, not a part of or an attachment to the equipment or machinery, have been erected to prevent physical contact with the lines:

MOTOR VEHICLES AND MECHANIZED EQUIPMENT SAFE WORKING DISTANCES		
Line Voltage	**Required Clearance**	**Comments**
50 kV or less	10 feet	Based on 1926.600(a)(6)
> 50 kV to 345 kV	10 feet + 0.4 inch for additional kV above 50	Example for 60 kV clearance is 10 feet + 4 inches
> 345 kV to 750 kV	16 feet	
IN TRANSIT NO LOAD BOOM LOWERED SAFE DISTANCES		
< 50 kV	4 feet	Based on 1926.600(a)(6)(iii)
50 kV to 345 kV	10 feet	
>345 kV to 750 kV	16 feet	

9.2.1.2 Power Line Safety for Cranes

Although not anticipated for this project, power line safety for cranes shall comply with 29 CFR 1926.1408.

CRANES MINIMUM SAFE WORKING DISTANCES		
Line Voltage	**Minimum Clearance**	**Comments**
Up to 50 kV	10 feet	Based on 1926.1408 Table A
Over 50 to 200 kV	15 feet	
Over 200 to 350 kV	20 feet	
Over 350 to 500 kV	25 feet	
Over 500 to 750 kV	35 feet	
Over 750 to 1000 kV	45 feet	
Over 1000 kV	As established by utility owner or PE	

9.2.1.3 Additional Requirements for Working Near Power Lines

(1) A person shall be designated to observe clearance of the equipment and give timely warning for all operations where it is difficult for the operator to maintain the desired clearance by visual means;

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(2) Cage-type boom guards, insulating links, or proximity warning devices may be used on cranes, but the use of such devices shall not alter the requirements of any other regulation of 29 CFR 1926.600 even if such device is required by law or regulation;
(3) Any overhead wire shall be considered to be an energized line unless and until the person owning such line or the electrical utility authorities indicate that it is not an energized line and it has been visibly grounded;
(4) Prior to work near transmitter towers where an electrical charge can be induced in the equipment or materials being handled, the transmitter shall be de-energized or tests shall be made to determine if electrical charge is induced on the crane. The following precautions shall be taken when necessary to dissipate induced voltages:
    a. The equipment shall be provided with an electrical ground directly to the upper rotating structure supporting the boom; and
    b. Ground jumper cables shall be attached to materials being handled by boom equipment when electrical charge is induced while working near energized transmitters. Crews shall be provided with nonconductive poles having large alligator clips or other similar protection to attach the ground cable to the load.
    c. Combustible and flammable materials shall be removed from the immediate area prior to operations.

In addition to the above information:

(1) Equipment shall be operated no closer than 15 feet to a power line except when the lines have been de-energized, visibly grounded and LO/TO procedures have been implemented or barriers are present to prevent physical contact with the lines.
(2) Where spacing does not provide 15 feet of clearance in the fall radius area for the height of the equipment plus appendages, de-energize or ensure that work crews are trained in recognizing the extraordinary electrical hazards prior to starting work.
(3) Post “CAUTION – ENERGIZED OVERHEAD POWER LINE” sign to warn against potential overhead power line hazards or unsafe practices.
(4) Conduct tailgate safety meeting on electrical and rig safety. Identify hazardous energy sources and proper lock-out/tag-out procedures (i.e., electrical, mechanical, hydraulic, pneumatic, chemical, and thermal).
(5) Review emergency response plan.

9.2.2 Heavy Equipment

Heavy equipment and its operation can represent a significant safety hazard if proper experience is not combined with site-required procedures. Only trained and experienced personnel will operate heavy equipment. Equipment will have a fire extinguisher on board, audible backup alarm, and spill kit.

Equipment Requirements

All self-propelled construction equipment shall be maintained, equipped and operated in accordance with all OSHA and manufactures’ requirements. Material handling equipment [as defined by OSHA] shall be equipped with Roll-over Protective Structures (ROPS) and seat belts.

- Only authorized and trained personnel shall operate equipment.
- Cell phone use is prohibited while operating a piece of equipment.

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- Equipment operators and truck drivers shall make a pre-shift safety inspection of their equipment. Any conditions that effect safe operation shall be corrected before use.
- Personnel shall not be transported or ride on equipment or vehicles that are not equipped with seats for passengers. Riding in the back of pickup trucks or on equipment without the use of a seatbelt is prohibited.

9.2.3 Trenching and Excavation

All excavation and trenching activities shall be made in accordance with the rules, regulations, requirements, and guidelines set forth in 29 CFR 1926.650, .651, and .652, the Occupational Safety and Health Administration's standards on Excavations. A competent person (Field Project Manager, supervisor) shall be placed in charge of all excavations.

Most solar installation require very little excavations or trenching that would fall within the 4 feet or greater in-depth category. In those cases that do the OSHA standards on excavations and trenching shall apply.

9.2.3.1 Before Beginning the Job

Underground utilities must be located and marked before excavation begins. Where the excavation is in close proximity to underground utilities, sufficient hand digging must be done in advance of using power equipment. Carefully use a wooden handled shovel for probing or uncovering a pipe, cable, or a structure so as not to damage it. All exposed utilities shall be supported to prevent damage from cave-ins, pipe movement, settlement, and washouts.

9.2.3.2 Other Safety Considerations

If markings locating underground lines are obliterated or knocked down, or become faded due to weather, construction, or any other cause, the Field Project Manager will be notified for a re-stake. Excavation operations are not permitted until the site has been re-staked.

Prior to back filling, notify the Field Project Manager if there has been damage to the underground utility (coating, nicks, dents, gouges, cuts, scrapes or scratches) so proper repair can be made.

Employees are not allowed in the excavation while heavy equipment is digging.

9.2.4 Noise

Heavy equipment, power tools, and other construction equipment and activities may produce noise levels above acceptable standards. All personnel shall wear hearing-protective devices with a minimum noise reduction rating (NRR) of at least 25 (either ear plugs or muffs) if they are within 25 feet of such operating equipment or when noise levels interfere with normal speech. Hand signals will be established by on-site personnel as appropriate to facilitate communications while involved in high-noise activities.

9.2.5 Weather

Adverse weather conditions will be important considerations when planning and conducting site operations. Hot and cold weather may be encountered as well as thunderstorms and lightning. A break trailer or field office equipped with air conditioning and heating will be part of the site setup.

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Buffalo, New York Weather Averages (Degrees Fahrenheit)				
Date	**Average Low**	**Average High**	**Average Precipitation**	**Average Snow**
January	21°	32°	0.8”	4.7”
February	21°	33°	0.7”	5.1”
March	28°	42°	1.2”	4.4”
April	39°	55°	2.0”	0.9”
May	50°	66°	2.4”	0”
June	59°	75°	2.6”	0”
July	64°	79°	2.6”	0”
August	63°	78°	2.5”	0”
September	56°	71°	2.9”	0”
October	45°	59°	2.7”	0”
November	36°	48°	2.1”	1.3”
December	27°	37°	1.4”	4.1”

9.2.5.1 Heat Stress Prevention

The project will use the following plan to mitigate heat stress based on the Heat Index which will be measured with the OSHA Heat App. Construction site managers will be accountable for Heat Stress Prevention and on how to implement the following program.

Heat Index	Risk Level	Protective Measures
Less than 70° F to 91° F (21° C to 33° C)	Lower (Caution)	**No Limits on Self-Paced Work** Employees must do the following: • Drink water throughout the day. Do not wait until you are thirsty. Supervisors must do the following: • Monitor the heat index regularly. • Observe employees who are wearing heavy, non-breathable coveralls or chemical resistant suits and ensure employees do not show signs of heat-related illness. • Acclimate new and returning employees who perform strenuous work.
91° F to 103° F (33° C to 39° C)	Moderate	**Conditions May Limit Work Activities** Employees must do the following: • Drink approximately 4 cups of water every hour.

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		• Rest for 5 minutes every hour. • Observe coworkers for signs of heat-related illness. Supervisors must do the following: • Ensure that shaded or air-conditioned areas for breaks are close to the work area. • Acclimate new and returning employees. Those who are not acclimated fall under 'High' risk protocols until acclimated. • Ensure that employees are drinking enough water, resting adequately, and not experiencing heat-related symptoms.
103°F-115°F (39°C-46°C)	High	**Conditions Will Limit Work Activities** Employees must do the following: • Drink, at minimum, 4 but no more than 6 cups of water per hour. If possible, water should be between 50° F and 60° F (10° C and 16° C). • Rest for 10 minutes (suggest removing impermeable clothing) every hour. Supervisors must do the following: • Set up a buddy system so that no one is working alone. • Ensure employees are acclimated to the weather conditions. Those who are not acclimated fall under 'Very High to Extreme' risk protocols until acclimated. • Closely supervise new employees for the first 7 days until fully acclimated. • Observe employees several times per hour for signs of heat-related illness. • Use non-invasive thermometers on all employees during rest periods and breaks to ensure heat-related illnesses are avoided.
Greater than 115° F (46° C)	Very High to Extreme	**Work Limited to Essential Functions** Employees must do the following: • Drink, at minimum, 4 but no more than 6 cups of water per hour. If possible, water should be between 50° F and 60° F (10° C and 16° C). Supervisors must do the following: • Provide employees with personal cooling measures. • Schedule 50 percent work/rest ratio with no working duration greater than 20 minutes. • Set up shade canopies over work areas that are in direct sunshine or, if possible, move jobs to naturally shaded areas. • Ensure that the buddy system is in place. Working alone is prohibited. • Never leave employees unattended, constantly observe for signs of heat-related illness. • Use non-invasive thermometers on all employees during rest periods and breaks to ensure heat-related illnesses are avoided.

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Water must be provided. Cool individual bottled drinking water will be supplied in coolers throughout the site being accessible to all employees to encourage frequent drinking. Electrolyte supplements can also be made available upon request. When temperatures are expected to exceed 85 deg. Fahrenheit employees will be reminded during the morning safety meeting to take needed breaks and to drink plenty of water as well as the symptoms and treatment of heat illness.

Access to shade. Shade tents or equivalent will be placed throughout the site being accessible to all employees. In situations where it is not safe to have tents erected (ex. Due to high winds, energized substations) employees will rest in the break room/tool trailer.

9.2.5.2 Cold Weather Awareness

1. When working in cold environments, dress to stay warm and dry. Use rain gear, layered or insulated clothing as appropriate.
2. Observe co-workers for symptoms of frostbite and hypothermia. When necessary, use warming shelters or vehicle cabs for temporary relief. Seek medical attention when appropriate.
3. Walk carefully on snowy and icy surfaces.
4. Soaking wet clothing contributes to hypothermia and should be removed as soon as possible.
5. Be aware that alcohol consumption at night can cause dehydration the next morning.
6. Coffee, Tea, and Energy Drinks cause dehydration. Drink even more water than normal.

Work/Warm-up Schedule for a 4-Hour Shift

Air Temp-Sunny Sky	No Wind		5 mph Wind		10 mph Wind		15 mph Wind		20 mph Wind	
°F (Approximate)	Max Work Period	# of Breaks	Max Work Period	# of Breaks	Max Work Period	# of Breaks	Max Work Period	# of Breaks	Max Work Period	# of Breaks
-15 to -19	(Normal Breaks) 1		(Normal Breaks) 1		75 min	2	55 min	3	40 min	4
-20 to -24	(Normal Breaks) 1		75 min	2	55 min	3	40 min	4	30 min	5
-25 to -29	75 min	2	55 min	3	40 min	4	30 min	5	Non-Emergency work should cease	
-30 to -34	55 min	3	40 min	4	30 min	5	Non-Emergency work should cease			
-35 to -39	40 min	4	30 min	5	Non-Emergency work should cease					
-40 to -44	30 min	5	Non-Emergency work should cease							
-45 & below	Non-Emergency work should cease									

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The above schedule applies to any 4-hour work period with moderate to heavy work activity; with warm-up periods of ten (10) minutes in a warm location and with an extended break (e.g., lunch) at the end of the 4-hour work period in a warm location.

9.2.5.3 Weather Emergency Notification

Keep an eye on the weather! It may seem like simple advice, but keeping an eye on the weather is one of the first steps in keeping workers and the job-site safe. That way, workers will be aware of impending weather and can prepare accordingly. Be sure to go over the plan at the beginning of the work day if severe weather is possible.

Severe thunderstorms, tornados, heavy snow, ice storms and flooding are weather events that can directly impact the safety of job-site personnel. Many of these events are preceded by two levels of advance public notification:

Watch: A forecast issued well in advance of a severe weather event to alert the public of the possibility of a particular hazard, such as tornadoes, severe thunderstorms, flash and river floods, winter storms, heavy snows. The purpose of the watch is to make you aware of what could happen, and allow you to plan and prepare for the possible weather event. This is the time to:

- Turn on NOAA radio,
- verify location of fellow workers and subcontractors,
- watch the sky,
- make sure you have ready access to safe shelter,
- contact your Project Manager so they are aware of the weather conditions.

Warning: A forecast issued when severe weather has developed, is already occurring and reported, or is detected on radar. Warnings state a particular hazard or imminent danger, such as tornadoes, severe thunderstorms, flash and river floods, winter storms, heavy snows, etc. A severe weather warning means the mentioned weather situation is imminent or taking place at that moment in the warning area.

9.2.5.4 Lightning Alert System

Lightning may pose a threat well before strong winds/rain affect the job-site. Workers out in open fields, or on roof tops, need to be especially cautious. Inovateus Solar supervisor will monitor weather on a daily basis, either by visual, weather services and/or weather App.

- Thunderstorms that reach a 30-mile distance:
  - Inovateus Solar will communicate a **"WATCH"** is in effect for all workers
- Thunderstorms that reach a 20-mile distance:
  - Inovateus Solar will communicate a **"WARNING"** is in effect for all workers and to be prepared to take shelter. All outdoor high work (cranes, aerial lifts, etc.) will be discontinued
- Thunderstorms that reach 10-miles distance:
  - Inovateus Solar will communicate **"TAKE IMMEDIATE SHELTER"** to all workers

Inovateus Solar will announce an **"ALL CLEAR"** when the 10-mile radius has been verified and free from the last audible thunder or lightning for 30 minutes. Communication devices that will be used are verbal, cell phone or radios.

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NOTE: The possibility exists that not all workers will be aware of the alert, especially those working within construction equipment. Workers should communicate with one another and make sure all workers are aware of the lightning alert.

9.2.5.5 Lightning Safety

Workers account for about one-third of the total number of people struck by lightning; roofers, construction workers, road crews, pipe fitters and farm workers are especially at high risk. Lightning typically strikes tall objects, including people standing on open ground or a roof.

Lightning Safety Policy for Outdoor Work Sites:

- Monitor weather conditions in the early morning hours for reports of impending severe weather in your area. If warranted, continue to monitor weather conditions throughout the day.
- All workers should understand what lightning safety plans are in place, which includes what shelters are available to them at the job-site and the Lightning Alert System above.
- It's easy to determine when to take shelter. If you hear thunder, the associated lightning is within 8 miles. Suspend activities, allowing sufficient time to get to shelter. A good lightning safety motto is: "If you can see it (lightning), flee it; if you can hear it (thunder), clear it."
- If you feel your hair standing on end, and/or hear "crackling noises," you are in the lightning electrical field. If caught outside during a lightning storm, immediately remove all metal objects (including hats), place your feet together, duck your head, and crouch down low in baseball catcher's stance with hands covering your ears.
- Wait a minimum of 30 minutes from the last observed lightning or thunder before resuming normal work activities. Be extra cautious during this phase, as the storm may not be over.
- If someone has been struck by lightning, get emergency help promptly and apply first aid. It is a myth that lightning victims carry a charge after the strike—they are safe to handle and may need first aid immediately.

Safe Shelter Considerations:
Ordinary wood buildings provided for worker lunch breaks, or shelter from rain or sun, are not safe from lightning. Similarly, small post-supported structures, such as bus stops or picnic shelters, are not safe either and cannot be made safe for people.

Fully enclosed metal vehicles are safe shelters, as well as other all-metal, mobile equipment. This includes airplanes, buses, vans and construction equipment with enclosed metal cabs, provided the "outer metal shield" is fully intact. All windows must be rolled up and people inside should avoid touching all objects that penetrate from inside to outside (e.g., radio dials, metal door handles, two-way radio microphones, etc.).

Unsafe vehicles include those made of fiberglass and other plastics, plus small riding machinery or vehicles without enclosed canopies, such as motorcycles, farm tractors, golf carts and ATVs.

SAFE:

- Fully enclosed metal vehicles with windows up
- Fully enclosed buildings with plumbing and/or electrical service
- Low ground, ditches, or clumps of bushes

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- Trees of uniform height, such as a forest

UNSAFE:

- Outdoor areas with metal objects such as power poles, fences, high-mast light poles, metal bleachers, electrical equipment, mowing and road machinery
- Solitary trees
- Bodies of water, open fields, high ground and caves

9.2.6 Slip, Trip, and Fall Hazards

Slip, trip, and fall hazards may exist throughout the site. Protection from slip, trip and fall hazards will be provided through standard safety procedures including good housekeeping. Properly locating equipment and tools, removing debris and trash, and taking general precautions during site operations will be standard operating procedures. Whenever possible, trip and fall hazards will be eliminated or clearly identified with yellow “caution” tape. Impalement hazards to associates will be neutralized as soon as they are identified. Subcontractors will be responsible for the use of safety harnesses, lifelines, lanyards, safety nets, etc., for safeguarding their employees when performing elevated work in compliance with 29 CFR 1926.500 Subpart M.

9.2.7 Fire and Flammable Liquids

Fire extinguishers shall be provided in fuel areas, storage areas, portable buildings, and equipment. All extinguishers will be inspected, serviced, and maintained. No burning of materials will take place at the project site. All flammable liquids and combustibles will be marked and stored in a manner to conform to NFPA and OSHA 29 CFR 1926.151 & 152 requirements. A hot work permit will be used when welding or cutting work is performed.

9.2.8 Debris Removal

Debris removal will be accomplished with equipment and manual labor. Proper PPE, daily work requirements, manual lifting techniques, and good housekeeping must be discussed and maintained. Debris removal will be an ongoing process that has many slip, trip, and fall hazards that must be addressed. Nails, metal panels, sharp edges, heavy loads, and biological hazards are some of the hazards associated with this job. Daily work activities will be discussed each day.

Housekeeping

Housekeeping is the foundation of a good safety program. Keep your work area clean. A clean work area is a safe area. Dispose of or clean up spilled material, scrap, and other tripping hazards out of walkways, stairs, and away from emergency equipment. Cover all exposed re-bar ends that pose an impalement hazard with appropriate protection, such as re-bar caps, lumber in combination with yellow caps, and wooden troughs.

9.2.9 Traffic Management

A more detailed and comprehensive job site traffic management plan is under separate cover and shall be followed by all subcontractors, suppliers, delivery vehicles and job site visitors.

9.2.10 Hand Injuries

ANSI A3 (CUT3) rated gloves will be required for all project activities.

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Hand injuries may be encountered in various ways at this job site:

- Absorption of harmful substances
- Severe cuts or lacerations
- Severe abrasions
- Punctures
- Pinch points
- Crushing
- Thermal burns

Hand hazards and protection specific to the job task will be discussed in the daily tailgate meetings prior to beginning every job task in order to prevent hand injuries.

Associates will know and understand the hazards that exist while performing their job task. Hazards will be mitigated by:

- Applying the correct level of hand protection as described in Section 7 – Personal Protective Equipment.
- Reviewing the hasp and signing the Acknowledgement Form acknowledging they understand the scope of work and hazards involved.
- Inspecting hand protection PPE prior to use and are responsible for immediate replacement of damaged or worn PPE.
- Following the "Rules for Safe Use of Hand Tools."
- Associates verbally communicate with each other what is going on and what your co-worker(s) will be doing next.
- Associates will stop all moving parts before placing hands on them, let the energy out of moving parts, and make sure hands are away from potentially moving parts before adding energy. Follow Lock-out/Tag-out Procedure.
- Use Stop Work Authority should any unsafe condition exist.
- Fixed open blade knives are prohibited to be used as a tool. Exceptions can be made, but must be approved by the Field Project Manager.

9.2.11 Ladders

According to OSHA statistics, falls from portable ladders are a major cause of serious injury. Ladders shall be inspected before and after each use for any cracks or defects. If defective, a ladder shall be repaired immediately, or tagged and removed from service. Proper precautions shall be taken prior to the use of a ladder.

- Do not erect ladders on boxes, carts, tables, or other unstable surfaces.
- Clean muddy or slippery footwear before mounting a ladder, whenever possible.
- Employees shall face the ladder when going up or down or performing work activities.
- Employees shall maintain a three-point contact on the ladder at all times. Small articles should be carried in pockets or in a belt. Larger articles shall be lifted to or lowered from elevated locations by hand line or a hoist.
- Employees shall use the proper type of ladder best suited for the job (step, extension, or fiberglass).
- Only non-metallic ladders shall be used in or around electrical cubicles, switchgear, or when working on any electrical installation and should be carried horizontally below shoulder level.

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- No aluminum ladders shall be utilized.
- Ladders shall not be loaded beyond the maximum intended load for which they were built, nor beyond their manufacturer's rated capacity.

Step Ladders

- Employees shall open step ladders fully and check the stability of the ladder, ensuring that all four legs are on firm, level ground.
- Employee shall use a step ladder perpendicular to the work.
- Employee shall use a step ladder that is about three feet shorter than the highest point needed to reach.
- Employees shall not stand any higher than the second step from the top.
- A step ladder shall not be used to brace or support a work platform or plank.

Extension Ladders

- The base of the ladder shall be ¼ of its working length form the vertical to obtain a safe working angle (one foot out for every four feet in height).
- Ladders shall be extended at least three feet above the upper working surface.
- Set the ladder on a secure footing. Ensure that the ladder has slip-resistant feet, secure blocking, or have someone hold the base of the ladder.
- Grasp the rungs, not the side rails, when climbing the ladder.
- Erect the ladder so that the upper section rests on the bottom section maintaining the minimum overlap of sections as shown on the ladder label.
- Ensure that the locking ladder hooks are secured before climbing.
- Tie off the ladder at the top to prevent it from slipping or blowing over.
- Stand no higher than the fourth rung from the top.

Stairways/Ramps

- All rises over 19” require a ladder, stairway, or ramp.
- Proper railings must be installed.
- Jobsite trailers require stairways and platforms for swing doors. Guardrails shall be provided around the platforms.

9.2.12 Hazardous Energy Sources (Lock-out/Tag-out)

Inovateus personnel will not install or uninstall electrical power connections to any building or facility. Only qualified electricians will connect, disconnect, re-wire or maintain electrical power service.

Site specific lock-out tag-out requirements will be implemented to prevent incidents and injury associated with inspection, maintenance, and/or setup of equipment, machines, or processes where unintentional startup, or release of stored energy would be expected to cause harm to persons involved in such work, bystanders or property.

Lock-out/Tag-out

The purpose of a lock-out/tag-out procedure is to prevent the unexpected or unwanted activation of equipment or processes during scheduled maintenance work or working in proximity to an active

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system. A good example of when a lock-out/tag-out procedure needs to be in place is when an employee is making wiring repairs on an electrical outlet. The procedure would enable us to physically lock down the electrical system with a "master lock" so another employee could not walk by and turn the power on. Some general requirements are as follows:

- All hazardous energy sources with electrical, chemical, thermal, pneumatic, hydraulic, and mechanical potential must be locked or secured prior to performing activities.
- Individual employee locks must be used to secure energy-isolating devices.
- Only the individual employee applying the lock may remove the lock.
- Energy control must be verified before working on equipment or processes. An attempt to start the equipment or the use of measurement instruments are examples of verification.
- All lock-out devices are to be removed promptly after work has been completed.

9.2.13 Hot Work

Although hot work is not anticipated for this project, it may be necessary for maintenance or equipment repair. All hot work will be conducted under the subcontractor's Hot Work Program and will require issuance of a Hot Work Permit prior to initiation of hot work.

9.2.14 Hauling Trailers

Inovateus personnel are not permitted to haul trailers. This activity will be the responsibility of job-site subcontractors. Hauling with trailers is limited to shipment, delivery and relocation of construction equipment and shall comply with the subcontractor's Trailer Towing SOP.

9.2.15 Confined Space

A confined space is defined as any location that has limited openings for entry and egress, is not intended for continuous employee occupancy, and is so enclosed that natural ventilation may not reduce air contaminants to levels below the threshold limit value (TLV). Examples of confined spaces include: manholes, stacks, pipes, storage tanks, trailers, tank cars, pits, sumps, hoppers, and bins. Entry into confined spaces without proper precautions could result in injury, impairment, or death.

All activities involving a Confined Space shall comply with all applicable OSHA standards.

- Subcontractors are responsible to train employees who are involved with confined space entry. No one may enter a confined space area until properly trained.
- Prior to the start of such an entry, each subcontractor involved in the work shall develop a Confined Space Entry Procedure.
- Subcontractors are required to identify all confined spaces on their project with a sign identifying the area as a confined space.
- Subcontractors are responsible for providing and using all atmospheric testing devices.

NOTE: Confined space entry is not anticipated for this project.

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9.2.16 Unique Site-Specific Hazards

Acknowledgements - *See table of emergency contacts for telephone numbers.*

Responsibility	Name	Signature	Date
Inovateus Director of Project Management	Todd Collins	DocuSigned by: Todd Collins 6BD858F1A601419...	1/23/2024 | 11:19 A
Inovateus Construction Manager	Joaquin Corona	DocuSigned by: 58EFEE42E36542F...	1/15/2024 | 9:00 AI
Inovateus Project Manager	Megan Drean	Megan Drean	1/12/2024 | 1:50 P
Civil Subcontractor (Milestone Construction)	Matthew Beres	DocuSigned by: Matthew Beres B810F65988ED447...	1/15/2024 | 3:02 PI
Electrical Subcontractor (Schuler-Haas)	Devyn Smith	DocuSigned by: Devyn Smith 6C6AB462C0F4489...	1/15/2024 | 3:16 PM
Mechanical Subcontractor (LBFNY)	Bryan Lampson	DocuSigned by: Bryan Lampson 6DBFB77E41C5474...	1/15/2024 | 3:43 PM
Fencing Subcontractor	Christine Watt	DocuSigned by: C18A01424C0E4...	1/20/2024 | 5:51 PM
GPI Survey	Mark Andrews	DocuSigned by: Mark Andrews 7D5F9C1FF4F046F...	22/2024 | 1:28

This is a solar construction project involving mechanical and electrical constr... ...es typically don't present unique hazards. Hazards that are unique and outside of these activities will be addressed during the initial site orientation, tailgate safety meetings and identified in the subcontractor's JHA's. Since the construction of the solar array will be performed on the Operable Unit No. 3 (OU-3) and Operable Unit No. 2 East (OU-2E) of the ExxonMobil Former Buffalo Terminal site (NYSDEC Sites #C915201D and #C915201B), it will require extensive planning and monitoring of all construction activities. Inovateus Solar and their subcontractors should reference and review the LaBella Change of Use Letter Work Plan and the Excavation Work Plans (EWPs) for OU-3 and OU-2E contained in the Site Management Plans (SMPs). The site will follow a strict NO SMOKING POLICY for the duration of construction.

This site contains a GSL liner (cap). Maintaining the integrity of this liner is required to protect from previous industrial activities. Per note 6 of drawing T-0.1, **"DO NOT USE STEEL PINS, GRADE STAKES, OR OTHER MARKING DEVICES THAT COULD PUNCTURE THE GSL LINER."** Therefore, routine brownfield inspections will be performed by QA/QC to ensure construction activities do not penetrate the liner.

9.3 Biological Hazards

Personnel will be cautioned not to disturb insects or animals. Personnel with particular allergies to bee or wasp stings will not work in areas where contact is possible unless they notify the CM of the allergy and carry appropriate anti-venom kits as necessary. First aid kits should include remedies for possible encounters, including equipment for poisonous snakebites. Insect repellents will be

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available on the site at all times. Personnel with particular allergies to such compounds will be cautioned prior to their application of the chemical makeup.

The following biological hazards may be present at the site. The CM will instruct the field crew of the applicable biological hazards during the site orientation and periodically throughout the project.

9.3.1 Insect Bites and Stings

Insects could be present at this site making the chance of bites possible. Although they can be painful, they rarely cause death. However, some people have a severe allergic reaction to an insect bite or sting that can result in a life-threatening condition. The following is a list of preventive measures:

- Apply insect repellent prior to fieldwork and/or as often as needed throughout the work shift.
- Wear proper protective clothing (work boots, socks, and light-colored pants).
- Field personnel that may have insect allergies should provide this information to the CM prior to commencing work.

Bee, Wasp, Hornet, and Yellow Jacket Stings

- A bee will leave behind a stinger attached to a venom sac. Try to remove it as quickly as possible. One way is to gently scrape it out with a blunt-edged object, such as a credit card.
- Wash the area carefully with soap and water. Do this two to three times a day until the skin is healed.
- Apply a cold pack, an ice pack wrapped in a cloth, or a cold, wet washcloth for a few minutes.
- Give acetaminophen for pain.
- For pain and itching, give an over-the-counter oral antihistamine. You could also apply a corticosteroid cream or calamine lotion to the sting area.
- A sting anywhere in the mouth warrants immediate medical attention. That is because stings in the mucous membranes of the mouth can quickly cause severe swelling that may block airways. You should seek medical care if you note a large skin rash, a large area of swelling around the sting site, or if swelling or pain persists for more than 72 hours. You should seek immediate medical care if you notice any of the following signs, which may indicate a serious or even potentially life-threatening allergic reaction:
    - wheezing or difficulty breathing
    - tightness in throat or chest
    - swelling of the lips
    - dizziness or fainting
    - nausea or vomiting

Spider Bites

Most spiders found in the United States are harmless, with the exception of the black widow and the brown recluse (or violin) spider. Both of these are found in warm climates.

- Wash the area carefully with soap and water. Do this two to three times a day until skin is healed.
- Apply cool compresses.
- Give acetaminophen for pain.
- To protect against infection, apply an antibiotic ointment and keep hands washed.
- If you have any reason to suspect a bite from a black widow or brown recluse spider, apply

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ice to the bite site and head for the emergency room. Symptoms include:

- a deep blue or purple area around the bite, surrounded by a whitish ring and a large outer red ring
- body rash
- muscle spasms, tightness, and stiffness
- abdominal pain
- headache or fever
- general feeling of sickness
- lack of appetite
- joint pain
- nausea or vomiting

Tick Bites

Check for ticks carefully after you have been in or around a wooded area. Common types of ticks include dog ticks and deer ticks (deer ticks may be carriers of Lyme disease). If you find a tick:

- Call a physician. The doctor may want you to save the tick after removal (you can put it in a jar of alcohol to kill it).
- Use tweezers to grasp the tick firmly at its head or mouth, next to the skin.
- Pull firmly and steadily on the tick until it lets go, then swab the bite site with alcohol.
- **Don't** use petroleum jelly or a lit match to kill and remove a tick.

9.3.2 Plants

The potential for contact with poisonous plants exists when performing fieldwork at the site. Poison ivy, sumac, and oak may be present on site. Poison ivy can be found as vines on tree trunks or as upright bushes (poison oak is another name for the bush form of poison ivy). Poison ivy consists of three leaflets with notched edges. Two leaflets form a pair on opposite sides of the stalk, and the third leaflet stands by itself at the tip. Poison ivy is red in the early spring and turns shiny green later in the spring.

Poison sumac can be present in the form of flat-topped shrub or tree. It has fern-like leaves that are velvety dark green on top and pale underneath. The branches of immature trees have a velvety “down.” Poison sumac is white and has “hairy” berry clusters.

Contact with poison ivy, sumac or oak may lead to a skin rash, characterized by reddened, itchy, blistering skin that needs first aid treatment. If you believe you have contacted one of these plants, immediately wash skin thoroughly with soap and water, taking care not to touch your face or other body parts.

The following is a list of preventive measures:

- Know what the plants look like and avoid them.
- Use OTC poison ivy blocker.
- Wear appropriate protective clothing (long sleeves, pants, gloves, etc.)

If you are exposed, according to the FDA, you should quickly (within 10 minutes):

- First, cleanse exposed areas with rubbing alcohol.
- Next, wash the exposed areas with water only (no soap yet, since soap can move the urushiol, which is the oil from the poison ivy that triggers the rash, around your body and

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actually make the reaction worse).
- Now, take a shower with soap and warm water.
- Lastly, put gloves on and wipe everything you had with you, including shoes, tools, and your clothes, with rubbing alcohol and water.

9.3.3 Snake Bites

There could be the potential for contact with snakes when performing field work. If bitten by a snake, remain calm, keep the affected area below the level of the heart and walk, do not run, to the nearest aid station for assistance. The CM will immediately transport the victim to the closest medical facility for treatment or send for appropriate medical assistance, whichever is faster.

The following precautions should be used when working in areas with snakes:

- Wear appropriate protective equipment (work boots).
- Be alert and aware of surroundings.
- Avoid walking in wooded areas and through bushes, tall grass, or brush as much as possible.

The following is a list of preventive measures:

- Be familiar with your surroundings.
- If you see a snake, back away slowly and do not touch it.
- Leave snakes alone. Many people are bitten because they try to kill a snake or get a closer look at it.
- Stay out of tall grass unless you wear thick leather boots or chaps.
- Keep hands and feet out of areas you cannot see.
- Be cautious and alert when working around brush and debris.

The American Red Cross recommends the following first aid treatment:

- Wash the bite with soap and water.
- Immobilize the bitten area and keep it lower than the heart.
- Get medical help.

9.3.4 Wildlife

Coyotes and other wildlife present a potential hazard to workers. Avoid contact with wildlife and never feed the animals.

9.4 Hazard Analysis and Mitigations by Tasks

This section assesses the risks of each major project task, as listed in Table 10.4A. The corresponding tables have been prepared to develop awareness of chemical and physical hazards specific to these major project tasks. Information in this section should be discussed prior to the start of each new task to be performed and during daily tailgate safety meetings.

It is the responsibility of each associate to assess their task, analyze potential risk reduction procedures and complete a JHA before performing their job task. Sources and hazards will be addressed for job tasks with reference made to applicable control measures in the following tables and site-specific plans. Tables 10.4B to 10.4F should be posted at the field office.

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Table 10.4A

Overview of Major Project Job Tasks			
Table	**Job Task**	**Hazard Rating**	**PPE Level**
10.4B	Mobilization and Site Preparation, including Utility Locates	Low	D
10.4C	Construction of Solar Array	Low to Med	D
10.4D	Construction of Overhead Lines	Low to Med	D
10.4E	Restoration	Low	D
10.4F	Maintenance	Low	D

Table 10.4B

Mobilization and Site Preparation		
PPE: Level D	**Hazard Rating:** Low	
Hazard	**Sources**	**Control Measures**
Manual Labor	Materials Equipment	Stretching and proper lifting techniques and possible use of mechanical equipment or hand trucks. Working in minimum groups of two.
Slip/Trip/Falls	Various Sources	Housekeeping rules shall be established and followed. Pre-existing slip, trip, and fall hazards will be marked, barricaded, or eliminated. Areas will be discussed in safety orientation.
Electrocution	Electrical utilities	Only qualified electrician will be allowed to hook-up circuits. Extension cords will be inspected. GFCI will be used. Verification that electrical services have been disconnected from the exclusion zone or properly marked and identified.
Heat Stress	Summer Temperatures	Shade and drinking water will be readily available at field locations.
Lightning	Thunderstorms	Discuss daily weather forecast in tailgate safety meetings. Follow 30/30 rule for lightning safety.
Incidental Injury	Mis-communications; General work activities	Site orientation and training. Positive attitude and behavior will show active participation of self-safety analysis by all associates of tasks to be performed.
Biological Hazards	Insects, Snakes, Ticks, Plants	See Section 5.3.
Vehicle Accident	Traffic	Develop/establish authorized parking area at field office. Always Park for first move forward. When parking along active roadway use 4-way flashers and pull off roadway as far as possible.

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Hand Injuries	Pinch points and hand traps	Utilize proper glove for the task. Think before placing hands into hazard zone. Utilize chemical resistant gloves in wet locations.

Table 10.4C

Construction of Solar Array		
PPE: Level D	**Hazard Rating:** Low	
Hazard	**Sources**	**Control Measures**
Hazardous Atmosphere	Nuisance Dust	Dust suppression. Application of water to prevent dust.
Slips/Trips/Falls	Various Locations	Identifiable areas will be either eliminated or marked. Discuss in safety meetings.
Electrocution	Electrical utilities	Only qualified electrician will be allowed to hook-up circuits. Extension cords will be inspected. GFCI will be used. Verification that electrical services have been disconnected from the exclusion zone or properly marked and identified.
Heat Stress	Summer Temperatures	See Section 5.2.5. Shade and drinking water will be readily available at field locations.
Biological Hazards	Insects Snakes	See Section 5.3.
Lightning	Thunderstorms	Discuss daily weather forecast in tailgate safety meetings. Follow 30/30 rule for lightning safety.
Noise	Machinery	Hearing protection with a NRR of at least 25 will be worn.
Physical Labor	Moving heavy objects and routine tasks	Use moving equipment to construct SWPPP. A minimum of two people will be used to move heavy items on uneven surfaces.
Heavy Equipment Injury	Machinery	Qualified operators, daily inspection of equipment. Site orientation will include discussion of swing radius hazards and blind spots. Utilize 3-point mount and dismount procedures at all times.
Vehicle Accident	Traffic	Develop/establish authorized parking area at Repository. Always Park for first move forward. When parking along active roadway use 4-way flashers and pull off roadway as far as possible.
Hand Injuries	Pinch points and hand traps	Utilize proper glove for the task. Think before placing hands into hazard zone. Utilize chemical resistant gloves in wet locations.

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Table 10.4D

Construction of Overhead Lines		
PPE: Level D		**Hazard Rating:** Low
Hazard	**Sources**	**Control Measures**
Hazardous Atmosphere	Nuisance Dust	Dust suppression. Application of water to prevent dust.
Slips/Trips/Falls	Various Locations	Identifiable areas will be either eliminated or marked. Discuss in safety meetings.
Electrocution	Electrical utilities	Only qualified electrician will be allowed to hook-up circuits. Extension cords will be inspected. GFCI will be used. Verification that electrical services have been disconnected from the exclusion zone or properly marked and identified.
Heat Stress	Summer Temperatures	See Section 5.2.5. Shade and drinking water will be readily available at field locations.
Biological Hazards	Insects Snakes	See Section 5.3.
Lightning	Thunderstorms	Discuss daily weather forecast in tailgate safety meetings. Follow 30/30 rule for lightning safety.
Noise	Machinery	Hearing protection with a NRR of at least 25 will be worn.
Physical Labor	Moving heavy objects and routine tasks	Use moving equipment to erect poles and lines. A minimum of two people will be used to move heavy items on uneven surfaces.
Heavy Equipment Injury	Machinery	Qualified operators, daily inspection of equipment. Site orientation will include discussion of swing radius hazards and blind spots. Utilize 3-point mount and dismount procedures at all times.
Vehicle Accident	Traffic	Develop/establish authorized parking area. Always Park for first move forward. When parking along active roadway use 4-way flashers and pull off roadway as far as possible.
Hand Injuries	Pinch points and hand traps	Utilize proper glove for the task. Think before placing hands into hazard zone. Utilize chemical resistant gloves in wet locations.

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Table 10.4E

Restoration		
PPE: Level D		**Hazard Rating:** Low
Hazard	**Sources**	**Control Measures**
Hazardous Atmosphere	Nuisance Dust	Dust suppression. Application of water to prevent dust.
Slips/Trips/Falls	Various Locations	Identifiable areas will be either eliminated or marked. Discuss in safety meetings.
Heat Stress	Summer Temperatures	See Section 5.2.5. Shade and drinking water will be readily available at field locations.
Biological Hazards	Insects Snakes	See Section 5.3.
Lightning	Thunderstorms	Discuss daily weather forecast in tailgate safety meetings. Follow 30/30 rule for lightning safety.
Noise	Machinery	Hearing protection with a NRR of at least 25 will be worn.
Physical Labor	Moving heavy objects and routine tasks	Use moving equipment for restoration tasks. A minimum of two people will be used to move heavy items on uneven surfaces.
Heavy Equipment Injury	Machinery	Qualified operators, daily inspection of equipment. Site orientation will include discussion of swing radius hazards and blind spots. Utilize 3-point mount and dismount procedures at all times.
Vehicle Accident	Traffic	Always Park for first move forward. When parking along active roadway use 4-way flashers and pull off roadway as far as possible.
Hand Injuries	Pinch points and hand traps	Utilize proper glove for the task. Think before placing hands into hazard zone. Utilize chemical resistant gloves in wet locations.

Table 10.4F

Maintenance		
PPE: Level D		**Hazard Rating:** Low
Hazard	**Sources**	**Control Measures**
Hazardous Atmosphere	Nuisance Dust	Dust suppression. Application of water to prevent dust.

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Misuse Of Tools	Hand Tools	Tools will be inspected and maintained in safe working conditions. All tools shall be secured when not in use and during transport.
Biological Hazards	Insects, Snakes, Ticks, Plants	See Section 5.3.
Back Strain	Lifting heavy objects	Use proper lifting technique.
Noise	Machinery	Hearing protection with a NRR of at least 25 will be worn.
Manual Labor	Materials Equipment	Stretching and proper lifting techniques and possible use of mechanical equipment or hand trucks. Working in minimum groups of two.
Heat Stress	Summer Temperatures	See Section 5.2.5. Shade and drinking water will be readily available at field locations.
Lightning	Thunderstorms	Discuss daily weather forecast in tailgate safety meetings. Follow 30/30 rule for lightning safety.
Incidental Injury	Mis-communications; General work activities	Site orientation and training. Positive attitude and behavior will show active participation of self-safety analysis by all associates of tasks to be performed.
Uneven terrain	Slope/grade of excavated hillside	Operators must know and work within limitations of equipment.
Hand Injuries	Pinch points and hand traps	Utilize proper glove for the task. Think before placing hands into hazard zone.
Vehicle Accident	Traffic	Always Park for first move forward. When parking along active roadway use 4-way flashers and pull off roadway as far as possible. Use flagger/spotter when pulling out into traffic.

9.4.1 Job Hazard Analysis (JHA)

Prior to the start of work activities, subcontractors shall complete a detailed Job Hazard Analysis of tasks to be performed for each construction work activity that is potentially hazardous in nature, such as work from heights, scaffold use, trenching operations, steel erection, electrical, crane operations. The JHA shall be a comprehensive evaluation of the work activity broken down into basic job steps, hazards identified for each step and contain hazard control measures for each hazard identified.

Identifying Workplace Hazards

A job hazard analysis is an exercise in detective work. Our goal is to discover the following:

- What can go wrong?
- What are the consequences?
- How could it arise?
- What are other contributing factors?
- How likely is it that the hazard will occur?

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JHA's shall be ongoing and shall be updated as necessary and completed for new tasks prior to the start of work activity. JHA's must be reviewed with applicable employees prior to the start of work at each occurrence and when changes are made. All approved JHA's will be place in a binder and kept at the job-site.

10 Incident/Accident/Near-Miss Reporting

Any incident resulting in personal injury, close calls, or property damage shall be reported to the Inovateus Field Project Manager and/or the Job-Site Project Safety Manager immediately. The Subcontractor Foreman shall then submit a written incident report involving injuries within 24 hours. OSHA required incidents must be reported within 8 hours and shared with the client within 24 hours. Incidents may involve but are not limited to:

- Lost time injuries
- Medical aid injuries
- First aid injuries
- Vehicle accidents
- Any property damages
- Fires or explosions
- Close call incidents
- Lifting device failures
- Near Misses

10.1 Incident Investigation

The investigation process should begin after arranging for first aid or medical treatment for the injured person(s). In getting started, remind everyone involved—especially workers— the investigation is to learn and prevent, not find fault. Steps of the investigation process include:

1. Call or gather the necessary person(s) to conduct the investigation and obtain the investigation kit.
2. Secure the area where the injury occurred and preserve the work area as it is.
3. Identify and gather witnesses to the injury event.
4. Interview the involved worker.
5. Interview all witnesses.
6. Document the scene of the injury through photos or videos.
7. Complete the investigation report, including determination of what caused the incident and what corrective actions will prevent recurrences.
8. Use results to improve the injury and illness prevention program to better identify and control hazards before they result in incidents.
9. Ensure follow-up on completion of corrective actions.

To complete an investigation promptly following an incident, have the following items available (Investigation Kit):

- Incident/Investigation Form and Instructions
- Camera/Phone
- PPE
- Pen

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10.2 Incident Reporting

All incidents, injuries, and near misses must be reported immediately to the associate's supervisor. Subcontractors will promptly report any incident to the Inovateus FPM. Work will stop until the situation is addressed and work can safely resume. Incident information will be forwarded to the Project Health and Safety Manager and Corporate Health and Safety Director within 24-hours. The client's construction manager will be notified at the earliest opportunity and will be provided with a copy of the incident investigation.

A thorough investigation will commence to determine the facts of the incident, root causes, solutions, and verification and validation of solutions. A completed Loss Investigation/Near Loss Investigation report and supplemental information (first report of injury, witness statements, supervisor statement, police report, damaged equipment report, monitoring reports, etc.) must be provided to Corporate Health and Safety within 5 working days of all incidents. If applicable, a Why Tree Incident Investigation will commence following established protocol and final report submitted to the Health and Safety Director within two weeks of the incident. Inovateus' Post Accident Drug and Alcohol testing procedures will be followed.

10.3 Emergency Notification

The Field Project Manager shall post onsite emergency numbers and directions to the site in each job trailer and gang box.

In emergency medical situations, if the injured employee cannot be transferred by a company vehicle to the posted medical facility, the posted emergency number will be called to dispatch the emergency medical responders to the site. The Subcontractor Foreman will assign an employee to go meet the ambulance at the site entrance and direct them to the injured employee.

11 Emergency Action Plan

Under separate cover, the Project Safety Manager, with assistance from the Field Project Manager, will manage the Emergency Action Plan for Inovateus Solar. The Project Safety Manager will also maintain all training records pertaining to this plan. The Project Safety Manager is responsible for scheduling routine tests of the emergency notification system with the appropriate authorities.

The Project Safety Manager will also coordinate with local public resources, such as fire department and emergency medical personnel, to ensure that they are prepared to respond as detailed in the plan. This includes allowing emergency responders to perform a walkthrough of the facility to familiarize themselves with the layout of the job site and hazards they might encounter when responding to an emergency. Emergency-responder input will be incorporated into this Emergency Action Plan.

12 Electrical Safety

Electrical work is inherently dangerous due to the potentially lethal hazards of electrical shock and arc flash. This section identifies electrical hazards, establishes means of assessing the associated risks, and

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identifies methods of hazard mitigation. Only Qualified Electrical Workers (QEW) shall perform the electrical tasks associated with the solar array installation.

All electrical tasks will be evaluated prior to work being performed and the degree of training shall be determined by the risk to the employee for the hazards involved, and shall include safety-related work practices. The following are general safety tips:

- All electrical tools and equipment must have a functional ground pin (3-prong) or be of the doubled insulated (2-prong) type.
- All electrical cords shall be plugged into ground fault circuit interrupters (GFCI).
- All extension cords must be of the heavy-duty type. Flat house-type cords are not permitted.
- Tools and extension cord with the ground prong missing shall not be used.
- Energized wiring in junction boxes, circuit breakers, etc. must be labeled and covered at all times.
- Faceplates must be on receptacles in construction trailers.
- All temporary outlets must be fixed and located in proper outlet boxes.
- Know whether a circuit is energized before beginning work near any electrical wiring.
- Don't make electrical repairs, connections, or installations unless you are qualified to do so.
- All extension cords must be checked before use. Remove damaged cords from service and report them to your supervisor.
- Protect extension cords and wiring from damage from sharp corners, pinching and being run over.
- Do not wear metal or conductive hard hats when working near electrical circuits.
- Know the location of electrical circuits whether it be underground or in a concrete slab before beginning such work as drilling, jack hammering, or excavating to prevent accidental contact.

12.1 Shock and Arc Flash Incidents

Shock - All incidents involving electrical contact (shock) with equipment energized at ≥ 50 volts (AC or DC) shall immediately be reported to the employee's leader and medical attention sought as soon as possible for the injured person(s).

Arc Flash - All incidents involving electrical arc flash are to be reviewed by the job leader. The job leader shall have the answers to the following questions prior to contacting medical.

a. Does the employee show signs of any physical (medical) symptoms of injury [i.e., blurred vision, burns, shock (medical condition), etc.]?
b. When the arc flash occurred, was the employee wearing the appropriate level of ARA and PPE/UV to perform the task inside the arc flash boundary?
c. If outside of the arc flash boundary, what was the proximity of the employee to the arc flash?

Based on the answers to the above questions, Inovateus HR will determine whether the employee will report for medical attention.

12.2 Hazard Risk Assessment

The Hazard Risk Assessment components:

- Identify hazard identification task.
- Identify the group performing task.

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- Select the hazard categories/potential outcome for each task identified.
- Rate the severity level and the probability level using a rating scale.
- Identify and select what controls are in place to eliminate or control the hazards identified with each task.

12.2.1 Shock Hazard Risk Assessment

Employee shall be protected from contact with voltages greater than a nominal 50 volts (AC or DC).

Avoid Contact

When working near exposed energized parts of 50 to 300 volts (AC or DC) qualified electrical workers shall avoid contact by using insulating barriers (e.g., rubber insulating gloves, rubber insulating blankets or insulating (PVC) roll blankets, approved insulated tools, etc.).

Conductive Articles

Conductive articles of jewelry and clothing, such as any of the following, shall not be worn inside the minimum/restricted approach distance (e.g., watchbands, bracelets, rings, key chains, necklaces, etc.).

12.2.2 Minimum/Restricted Approach Distances for Qualified Personnel

Nominal Voltage	Distance
50 V - 300 V	Avoid Contact
> 300 V - 750 V	1 ft. 1 in.
> 750 V - 2 kV	1 ft. 6 in.
> 2 kV - 15 kV	2 ft. 3 in.
> 15 kV - 37 kV	3 ft. 0 in
> 37 kV - 87.5 kV	3 ft. 6 in.
> 87.5 kV - 121 kV	4 ft. 8 in.
> 121 kV - 140 kV	5 ft. 5 in.
230 kV	10 ft. 1 in.
345 kV	18 ft. 1 in.

NOTE: Shock protection PPE must cover all body parts that enter the restricted approach distance. There is no shock PPE rated above 36 kV.

NOTE: Shock PPE must be rated for the maximum voltage exposure and tested periodically in accordance with established ASTM standards. No uninsulated tools or body parts may enter the minimum/restricted approach distance.

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12.2.3 Limited Approach Distance for Non-Qualified Personnel

Nominal Voltage	Distance
50 V - 750 V	5 ft. 0 in.
> 750 V - 2 kV	10 ft. 0 in.
> 2 kV - 15 kV	10 ft. 0 in.
> 15 kV - 37 kV	10 ft. 0 in.
> 37 kV - 87.5 kV	10 ft. 0 in..
> 87.5 kV - 121 kV	20 ft. 0 in.
> 121 kV - 140 kV	20 ft. 0 in..
230 kV	20 ft. 0 in.
345 kV	20 ft. 0 in.

NOTE: Non-qualified persons must be escorted by a qualified electrical worker to pass the limited approach boundary. Non-qualified persons shall not pass the minimum/restricted approach boundary for energized parts and equipment.

12.2.4 Arc Flash Risk Assessment

Employees shall be protected from exposures greater than 2 cal/cm2. When employees are exposed to the hazard of arc flash, they must wear Arc Related Apparel rated for at least the maximum estimated incident energy of the exposure.

12.3 Grounding for Employee Protection

Guidelines for protective grounding equipment are contained in ASTM F855. Protective grounds shall have an impedance low enough to cause immediate operation of protective devices.

The section applies to the grounding of transmission and distribution lines and equipment for the purpose of protecting employees.

For the employee to work lines or equipment as deenergized, the lines or equipment shall be de-energized and shall be grounded as specified in this section. However, if the employer can demonstrate that installation of a ground is impracticable or that the conditions resulting from the installation of a ground would present greater hazards than working without grounds, the lines and equipment may be treated as deenergized provided all of the following conditions are met:

a. The lines and equipment have been de-energized, and
b. there is no possibility of contact with another energy source, and
c. the hazard of induced voltage is not present.

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12.3.1 Equipotential Zone

Equipotential zone means that temporary protective grounds shall be placed at such locations and arranged in such a manner as to prevent each employee from being exposed to hazardous differences in electrical potential.

Protective grounding equipment shall be capable of conducting the maximum fault current that could flow at the point of grounding for the time necessary to clear the fault.

12.3.2 Testing

Before any ground is installed, lines and equipment shall be direct contact tested and found absent of nominal (AC or DC) voltage.

12.3.3 Order of Connection

When a ground is to be attached to a line or to equipment, the ground-end connection shall be attached first, and then the other end shall be attached by means of a live-line tool.

12.3.4 Order of Removal

When a ground is to be removed, the grounding device shall be removed from the line or equipment using a live-line tool before the ground-end connection is removed.

12.3.5 Additional Precautions

When work is performed on a cable at a location remote from the cable terminal, the cable may not be grounded at the cable terminal if there is a possibility of hazardous transfer of potential should a fault occur.

12.3.6 Removal of Grounds for Test

Grounds may be removed temporarily during tests. During the test procedure, the employer shall ensure that each employee uses insulating equipment and is isolated from any hazards involved, and the employer shall institute any additional measures as may be necessary to protect each exposed employee in case the previously grounded lines and equipment become energized.

12.4 Working on or Near Exposed Energized Equipment

12.4.1 Two Person Rule

If working inside the minimum/restricted approach distance for equipment with exposed parts or conductors energized at 600 Volts or more, two persons must be present. Also, when working on or near energized equipment at least as dangerous, such as racking 480-volt breakers with the door open, two persons are required.

12.4.2 Exceptions to Two Person Rule

a. Routine circuit switching where by virtue of distance or enclosure, the person is not exposed to electrical hazards, or
b. work performed with live line tools when the person is outside the minimum approach distance, or

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c. emergency repairs to the extent necessary to safeguard the public.

12.5 Fall Protection

Fall protection harnesses used to protect employees from falls while performing work inside the arc flash boundary for conductors or equipment shall be constructed to survive a drop test after receiving arc flash. This requirement applies to both harnesses used in conjunction with aerial work platforms and wood pole climbing.

12.6 Electrical Equipment

All electrical protective equipment requiring inspection and retesting shall use months as the unit of measure for frequency.

12.6.1 Measurement & Test Equipment (M&TE)

- The selection of M&TE shall assure that the requirements of the measurement activity are achieved, and
- selected M&TE shall be utilized within the equipment's ratings to assure the safety of the user, and
- calibrated M&TE shall be used where accuracy of the measurement can impact safety and reliability, and
- M&TE that requires calibration shall be clearly identified with an appropriate label, and
- M&TE shall not be used beyond its calibration due date.

12.6.2 Insulated Tools

Insulated tools must be clearly marked with voltage ratings and meet the requirements of ASTM F1505. Insulated tools are typically rated at 1000 volts or less. Insulated tools shall have a two color/two-layer insulating coating that facilitates visual inspection and damage identification. Surface imperfections in the outer color/layer are acceptable. If the inner color/layer is visible, the tool must not be used and shall be immediately discarded.

12.6.3 Live-Line Tools

Live-Line Tools must be inspected and tested annually in accordance with ASTM F1825, F1826 and IEEE 516 Standards.

12.6.4 Proximity Voltage Detectors

Proximity voltage detectors shall not be used when physical contact testing is required. It can be used for absence of nominal voltage, troubleshooting and additional verification.

NOTE: Refer to manufacturer's instructions prior to use. Proximity voltage detectors may not accurately indicate the presence of voltage in certain circumstances. Proximity voltage detectors utilize the electrical field to determine voltage and can be affected by such factors as geometric relationship to the conductor under test, shielding, phase cancellation, or grounding a phase of a delta circuit. During these situations, proximity voltage detectors may indicate a false negative, failing to indicate voltage (shock hazard) when it is present

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12.6.5 Temporary Protective Grounds

Temporary Protective Grounds used for employee protection shall be constructed in accordance with ASTM F855 and receive an annual inspection and test using methods specified in ASTM F2249.

12.6.6 Hydraulic and Pneumatic Tools

Shall provide dielectric withstand capabilities corresponding to the nominal voltage which they are exposed.

12.6.7 GFCI's

Cord and Plug tools/equipment must incorporate the GFCIs in all locations. Grounds used in cord and plug equipment must connect to an actual earth or equipment ground. They cannot be terminated on the neutral of the circuit.

NOTE: Some equipment may not function properly when used in conjunction with GFCI (i.e. Oscilloscope, Variac, HI-Potters, Meggers, Portable Welders, etc.) equipment of this nature may be used without connecting to a GFCI.

12.7 Troubleshooting

When troubleshooting electrical problems, a plan with expected results shall be established prior to beginning the work. If the plan is completed without achieving the expected results and the problem is not identified, a new plan must be developed prior to proceeding with the work.

Proximity voltage tester can be used for troubleshooting applications. They cannot be used to provide protection since they only detect AC and not DC voltage. A test for protection must determine a circuit is below 50 volts (AC or DC), which requires a contact test.

12.8 Temporary Power

Temporary power must be mechanically protected and have the disconnecting means clearly identified. It must also have the estimated incident energy value identified prior to being placed in service.

12.9 Training Requirements

12.9.1 Qualified Electrical Worker (QEW)

Qualified Electrical Worker is a documented authorization for an employee to work on or near energized parts or conductors. This means to perform any work that occurs inside the minimum/restricted approach boundaries. An employee must also have training specific to the equipment on which work is performed. The degree of training shall be determined by the risk to the employee for the hazards involved, and shall include safety-related work practices. At a minimum, training shall include the subjects listed as follow:

a. The skills and techniques necessary to distinguish exposed energized parts from other parts of electric lines and equipment, and
b. the skills and techniques necessary to determine the nominal voltage of exposed energized lines and equipment, and

DocuSign Envelope ID: C73F39C0-D772-41EB-B982-69083A143CC2

c. the ability to determine minimum/restricted approach distances corresponding to the nominal voltage(s) to which qualified employees will be exposed and the skills and techniques necessary to prevent uninsulated body parts and tools from entering those boundaries. Also, the ability to determine the Arc Flash Boundaries corresponding to the appropriate incident energy estimates for the work and the skills and techniques necessary to identify and don the appropriate ARA and PPE, and
d. the proper use of special precautionary techniques, PPE, insulating and shielding materials, and insulated tools for working on or near exposed energized lines and equipment, and
e. the recognition of electrical shock and arc flash hazards to which the employee may be exposed and the skills and techniques necessary to control or avoid those hazards, and
f. 1st Aid training is required to include CPR.

12.9.2 Other Training

QEWs shall also receive training in new technology, new types of equipment or changes in procedures necessitating the use of electrical safety-related work practices different from those the employee would normally use in the performance of their duties.

12.9.3 Proficiency

Ensure each QEW employee has demonstrated proficiency in the electrical safety-related work practices required to perform their job safely before that employee is considered to have completed training. This proficiency may be performed by interview, examination, observation, or any combination of these methods. Evidence of proficiency shall be documented.

13 Revision History

Date	Rev	Description of Revision
9-13-2023	1	Revised Section 1.2, 1.4.1, 9.2.5.1 and 9.2.16
12-13-2023	2	Added reference to drawing T-0.1, note 6, in section 9.2.16. Added additional signature blocks to sections 6.2, 6.3, 6.4, 6.5, and 9.2.16.
12-26-2023	3	Added no weapons statement to section 1.4. Changed to new logo.

Responsibility	Name	Signature	Date
Inovateus Director of Project Management	Todd Collins	DocuSigned by: Todd Collins 6BD858F1A601419...	1/23/2024 | 11:19 A
Inovateus Construction Manager	Joaquin Corona	DocuSigned by: 58EFEE42E36542F...	1/15/2024 | 9:00 A
Inovateus Project Manager	Megan Drean	DocuSigned by: Megan Drean DC48D49B8E6444A...	1/12/2024 | 1:50 PM
Civil Subcontractor (Milestone Construction)	Matthew Beres	DocuSigned by: Matthew Beres B810F65968ED447...	1/15/2024 | 3:02 PM
Electrical Subcontractor (Schuler-Haas)	Devyn Smith	DocuSigned by: Devyn Smith 6C6A8462C0F4489...	1/15/2024 | 3:16 PM

Mechanical Subcontractor (LBFNY)	Bryan Lampson	DocuSigned by: Bryan Lampson 6DBFB77E41C5474...	1/15/2024 | 3:43 PM
Fencing Subcontractor	Christine Watt	DocuSigned by: Christine Watt C18A01424C0E43B...	1/20/2024 | 5:51 PM
Surveying GPI	Mark Andrews	DocuSigned by: Mark Andrews 7D5F9C1FF4F046F...	1/22/2024 | 1:28 P

Approval Letters

RECEIVED
JAN 2 1 2021
Bur. Of Tech. Support

Elk Street Commerce Park LLC

Resubmitted January 18, 2021
January 14, 2021

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7020

Re: ExxonMobil Oil Former Buffalo Terminal OU-3
Site 915201D

Subj: 60-Day Advance Notification of Site Change of Use
Resubmission to include Figure 1

Ladies and Gentlemen:

Elk Street Commerce Park, LLC hereby resubmits the 60-Day Advance Notification of Site Change of Use. The original submission sent on January 14, 2021 inadvertently excluded Figure 1 showing the area of proposed solar development. The Figure is now included.

Elk Street Commerce Park, LLC (ESCP), the owner of the referenced site, hereby submits the 60-day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership, thereby notifying the NYSDEC that ESCP has leased a portion of the site to Elk Street Solar LLC for the purpose of constructing and operating a solar energy generating facility. The purpose of this notification is to add Elk Street Solar LLC to the Certificate of Completion.

ESCP shall remain the property owner, Remedial Party and COC holder for the site and will continue to submit all required reports.

We trust that this notice is in order. Should there be any question, please feel free to contact me at (716) 289-6976 or by email at paul.r.neureuter@gmail.com.

Thank you for your cooperation in this matter.

Very truly yours,
Elk Street Commerce Park, LLC

Paul R. Neureuter
Co-Manager

Cc w/ Encl: Tim Ryan – Elk Street Solar LLC
Gene Melnyk – NYSDEC Region 9
Marc Romanowski – Rupp Baase
Scott Fairbrother - ESCP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership
Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

RECEIVED

JAN 2 1 2021

Bur. Of Tech. Support

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: ExxonMobil Oil Former Buffalo Terminal OU-3 **DEC Site ID No.** C915201D

II. Contact Information of Person Submitting Notification:

Name: Paul Neureuter
Address1: c/o Elk Street Commerce Park, LLC, 4 Centre Drive
Address2: Orchard Park, NY 14217
Phone: (716) 289-6976 E-mail: paul.r.neureuter@gmail.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- ☐ Change in Ownership or Change in Remedial Party(ies)
- ☑ Transfer of Certificate of Completion (CoC)
- ☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): 04/01/2021

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Elk Street Solar will lease an 11-acre portion of the site and will build, own, and operate a solar energy ~~generating facility. Elk Street Solar LLC will be a partial transferee of the Certificate of Completion.~~ Critically, Elk Street Commerce Park, LLC will remain a COC holder for the remainder of Site and ~~continue to submit all required reports.~~

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Elk Street Solar LLC proposes to construct and operate a commercial photovoltaic solar electricity ~~generation system as shown on Figure 1. Currently the Site is vacant except for a remediation treatment~~ building. This change of use will not affect the Site's proposed, ongoing, or completed remedial program.

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ _____
(Signature) (Date)

_____
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VI. **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☑ Prospective CoC Holder

Name: Timothy M. Ryan, Director, Elk Street Solar LLC

Address1: 400 Market Industrial Park, Suite 32

Address2: Wappingers Falls, NY 12590

Phone: (845) 218-8074 E-mail: tim.ryan@bqenergy.com

Certifying Party Name: Paul R. Neureuter Co-Manager Elk Street Commerce Park, LLC

Address1: _____

Address2: c/o The KrogGroup LLC 4 Central Drive Orchard Park, NY 14127

Phone: 716-667-1234 E-mail: pneureuter@kroggrp.com
paul.r.neureuter@gmail.com



DRAWING NOTES:

1. BACKGROUND IMAGERY TAKEN FROM NYS GIS CLEARINGHOUSE, DATED 2017 IMAGERY ACCESSED APRIL, 2026
2. WETLAND DATA USING NATIONAL WETLANDS INVENTORY SURFACE WATERS AND WETLANDS ONLINE MAPPER. NO WETLANDS PRESENT WITHIN SITE AREA. DATA ACCESSED APRIL, 2026
3. EXISTING FENCE LINE, GAS VENTS AND MONITORING WELL LOCATIONS BASED ON AS BUILT DRAWINGS DATED 6-23-2026

LEGEND

- PROPERTY LINE
- REQUIRED SETBACKS
- EXISTING EDGE OF PAVEMENT
- EXISTING STORMWATER LINE
- EXISTING/PROPOSED FENCE
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING WATERCOURSE
- EXISTING/PROPOSED UTILITY POLE
- EXISTING BUILDING
- FEMA FLOODWAY
- EXISTING GAS VENT OR BURNER W/ 5' X 10' OFFSET
- EXISTING EXTRACTION WELL

GRAPHIC SCALE

(IN FEET)
1 inch = 60 ft.

MODEL NV-EAST
TRUE NORTH TO GRID V.I.F.

SYSTEM SUMMARY		
DESCRIPTION	VALUE	UNITS
MAXIMUM AC CAPACITY, NOMINAL	3,000	KW-AC
MAXIMUM DC CAPACITY	3,727	KW-DC
DC-AC RATIO	1.07	RATIO
ROW SPACING	11.0	FEET
GROUND COVER RATIO	0.60	RATIO
INVERTER: SMA SUNNY HIGHPOWER PEAK3 125-US		
INVERTER OUTPUT VOLTAGE	480	VOLTS
INVERTER OUTPUT POWER, NOMINAL	125	KW-AC
TOTAL NUMBER OF INVERTERS	26	EACH
NUMBER OF STRINGS PER INVERTER	10-11	EACH
MODULE: HANWHA Q.PEAK DUO L-G5 395FG 430W		
MODULE POWER RATING	430	WATTS-DC
TOTAL NUMBER OF MODULES	8,660	EACH
MODULES PER RACK, VERTICALLY	2	PORTRAIT
MODULES PER STRING	27	EACH
MAX DC SYSTEM VOLTAGE	1,500	VOLTS
NUMBER OF STRINGS	320	EACH
TILT ANGLE	20	DEGREES
AZIMUTH ANGLE	180	DEGREES

NO.	ZONE	DATE	BY

ELK STREET PV SOLAR PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INTERCONNECTION SITE PLAN

BQ ENERGY LLC
PROJECT DEVELOPER
420 Lexington Avenue, Suite 2449
New York, NY 10170

CRAWFORD & ASSOCIATES
ENGINEERING, P.C.
4041 Veterans Memorial Highway, Suite 200, Holbrook, New York 11741
www.crawfordandassociates.com

DATE	DRAWN BY	CHECKED BY	APPROVED BY
4/28/2026	ASL	ASL	AAA
SCALE: AS SHOWN			

SHEET NO.	DRAWING
SSN-17	FIGURE 1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS SUCH ALTERATION IS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

FILED
JAN 04 2022
ERIE COUNTY
CLERK'S OFFICE

NOTICE OF TRANSFER OF CERTIFICATE OF COMPLETION
Brownfield Cleanup Program
Pursuant to 6 NYCRR Part 375-1.9(f)

ExxonMobil Oil Former Buffalo Terminal OU-3, Site ID No. C915201D (hereinafter "Site")
503 Elk Street , Buffalo, NY, 14210
City of Buffalo, Erie County Tax Map Identification Numbers:
123.13-1-2.111

PLEASE TAKE NOTICE, that pursuant to Article 27, title 14 of the Environmental Conservation Law and 6 NYCRR 375-1.9(f), Elk Street Commerce Park, LLC ("ESCP") hereby adds Elk Street Solar LLC ("Elk Street Solar") as lessee to the Certificate of Completion ("COC") issued by the Department of Environmental Conservation on December 30, 2019 for the site described below. Such COC was issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Cleanup Agreement, as well as any other relevant information regarding the Site, that the remediation requirements set forth in ECL Article 27, title 14 had been or would be achieved in accordance with the time frame, if any, established in the remedial work plan.

PLEASE TAKE NOTICE, that the 11-acre Elk Street Solar site is encompasses a portion 503 Elk Street, Buffalo, New York in Erie County. The area leased by Elk Street Solar bears DEC site number: C915201D and is more fully described on **Schedule A** and its figures attached hereto ("Lease Area"). The Tax Map Identification Number for the parcel of real property, within which the Lease Area is County of Erie tax map section 123.13-1-2.111.

PLEASE TAKE NOTICE, that a Notice of Certificate of Completion for the Site was filed in the Erie County Clerk's Office on February 18, 2020 in Liber 11357 Of Deeds at Page 2388.

PLEASE TAKE NOTICE, that, pursuant to a lease agreement by and among Elk Street Solar and ESCP as of May 27, 2020, Elk Street Solar will construct and operate a solar energy generation facility on a portion of the Site while ESCP shall remain the property owner, Remedial Party and COC holder for the Site.

PLEASE TAKE NOTICE, ESCP hereby adds Elk Street Solar to the Certificate of Completion as lessee as provided for pursuant to Article 27, title 14 of the Environmental Conservation Law and 6 NYCRR 375-1.9(f):

Elk Street Solar LLC *Federal ID# 85-1277675*	400 Market Industrial Park, Suite 32 Wappingers Falls, New York 12590
Paul Curran *Managing Director*	c/o BQ Energy Development, LLC 400 Market Industrial Park, Suite 32 Wappingers Falls, New York 12590

PLEASE TAKE FURTHER NOTICE, that there is an environmental easement for this

site, and ESCP is responsible for implementing the Department-approved Site Management Plan, and any amendments thereto, Elk Street Solar, as lessee, will fully comply with all restrictions and affirmative obligations contained therein as well as in the Environmental Easement for the Site.

WHEREFORE, the undersigned have signed this Notice of Transfer of Certificate of Completion as of the 23rd December day of 20 21 .

ELK STREET COMMERCE PARK, LLC
Certificate holder

By: _____
Paul Neureuter — Co-Manager
authorized signatory

STATE OF NEW YORK)
COUNTY OF ERIE)ss.

On the 23rd day of December, in the year 2021, before me, the undersigned, personally appeared Paul Neureuter, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

Susan Coughlin
Notary Public, State of New York
Qualified in Erie County
My commission expires May/5/2024

ELK STREET SOLAR LLC
New Lessee

By: _____
Paul Curran, Managing Director
authorized signatory

STATE OF NEW YORK)
COUNTY OF DUTCHESS)ss.

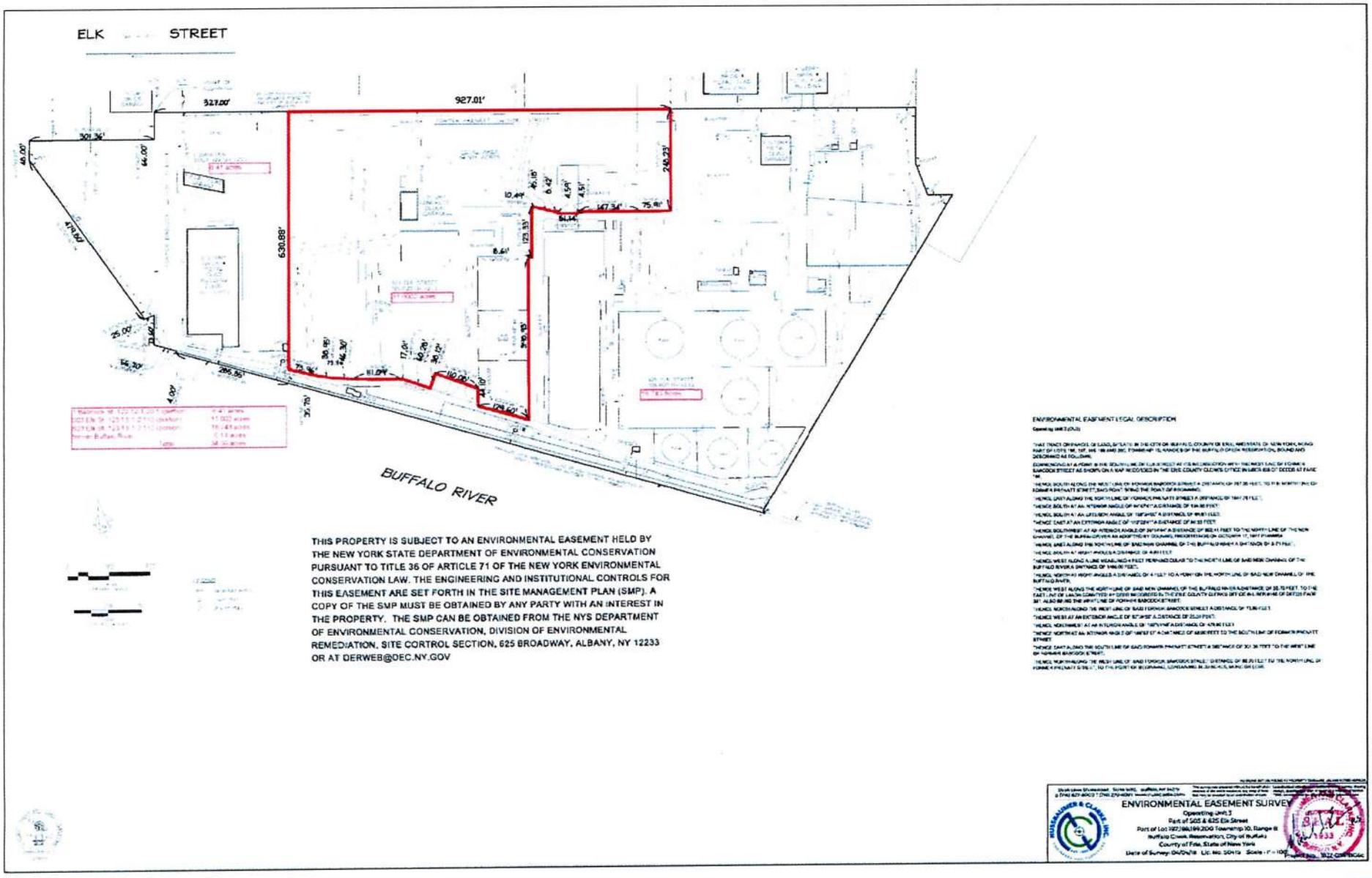
On the 16th day of December, in the year 2021, before me, the undersigned, personally appeared Paul Curran, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Alicia Scott
Notary Public - State of New York



Schedule A
Map of Site No. C915201D

Figure showing the 11 acre portion of the Site as described in the COC



THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

ENVIRONMENTAL EASEMENT LEGAL DESCRIPTION

ENVIRONMENTAL EASEMENT SURVEY

Operating Unit 3
Part of 505 & 625 Elk Street
Part of Lot 127/86/99/200 Township 10, Range 8
Buffalo Creek Reservation, City of Buffalo
County of Erie, State of New York

ERIE COUNTY CLERK'S OFFICE

County Clerk's Recording Page

Return to:
BOX 108

Party 1:
NEW YORK STATE DEPT OF
ENVIRONMENTAL CONSERVATION

Party 2:
ELK STREET COMMERCE PARK LLC

Book Type: D Book: 11357 Page: 2388
Page Count: 27
Doc Type: AMEND/SUPPLEMNT
Rec Date: 02/18/2020
Rec Time: 01:08:13 PM
Control #: 2020037036
UserID: David M
Trans #: 20232131
Document Sequence Number

Recording Fees:

RECORDING	$155.00
COE CO $1 RET	$1.00
COE STATE $14.25 GEN	$14.25
COE STATE $4.75 RM	$4.75
MARKOFF FEE	$0.50

Consideration Amount:

BASIC MT	$0.00
SONYMA MT	$0.00
ADDL MT/NFTA	$0.00
SP MT/M-RAIL	$0.00
NY STATE TT	$0.00
ROAD FUND TT	$0.00

Total: $175.50

STATE OF NEW YORK
ERIE COUNTY CLERK'S OFFICE

WARNING – THIS SHEET CONSTITUTES THE CLERK'S ENDORSEMENT REQUIRED BY SECTION 319&316-a (5) OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK. DO NOT DETACH. THIS IS NOT A BILL.

Michael P. Kearns
Erie County Clerk

Box 103

CORRECTED FILING

This document is being recorded in the Erie County Clerk's office to correct a Certificate of Completion recorded on January 31, 2020 (Book Type: D; Book: 11356; Page: 4017). The previously filed instrument inadvertently contained duplicate pages or pages irrelevant to the instrument (pages 5, 7, 9, and 10 of the previously filed instrument).

AMD-26-1

37036

NYSDEC BROWNFIELD CLEANUP PROGRAM (BCP)

CERTIFICATE OF COMPLETION

CERTIFICATE HOLDER(S):

Name	**Address**
Elk Street Commerce Park, LLC	4 Centre Drive, Orchard Park, NY 14127

BROWNFIELD CLEANUP AGREEMENT:

Application Approval: 9/12/17 **Agreement Execution:** 10/2/17
Agreement Index No.:C915201D-08-17

Application Approval Amendment: 5/20/19 **Agreement Execution Amendment:** 5/20/19

Application Approval Amendment: 11/18/19 **Agreement Execution Amendment:** 11/18/19

Application Approval Amendment: 11/25/19 **Agreement Execution Amendment:** 11/25/19

SITE INFORMATION:

Site No.: C915201D **Site Name:** ExxonMobil Oil Former Buffalo Terminal OU-3
Site Owner: Elk Street Commerce Park, LLC
Buckeye Terminals, LLC
Street Address: 503/625 Elk Street and 1 Babcock St.
Municipality: Buffalo **County:** Erie **DEC Region:** 9
Site Size: 33.120 Acres
Tax Map Identification Number(s): 123.13-1-2.111, 123.13-1-2.112, 123.13-1-21
Percentage of site located in an EnZone: 100 %

A description of the property subject to this Certificate is attached as Exhibit A and a site survey is attached as Exhibit B.

CERTIFICATE ISSUANCE

This Certificate of Completion, hereinafter referred to as the "Certificate," is issued pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law ("ECL").

This Certificate has been issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the applicable remediation requirements set forth in the ECL have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

The remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

Allowable Uses under the BCP: Commercial and Industrial
Cleanup Track: Track 4: Restricted use with site-specific soil cleanup objectives
Tax Credit Provisions:
Site Preparation and On-Site Groundwater Remediation Credit Component Rate is 25 %.

Tangible Property Credit is 15%. Comprised of 10% Base, 5% EnZone.

Dependent upon the project being developed in a manner consistent with the approved Brownfield Cleanup Program application, additional rate increases may be available if the site is developed as affordable housing (5%), if the Certificate Holder receives a separate Determination of Conformance with the BOA from the Secretary of State (5%), or if the site is used primarily for manufacturing activities (5%) not to exceed a maximum 24 %.

The Remedial Program includes use restrictions or reliance on the long-term employment of institutional or engineering controls which are contained in the approved Site Management Plan and an Environmental Easement granted pursuant to ECL Article 71, Title 36 which has been duly recorded in the Recording Office for Erie County as BK/PG D 11353/9441 and BK/PG D 11353/9483.

LIABILITY LIMITATION

Upon issuance of this Certificate of Completion, and subject to the terms and conditions set forth herein, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

CERTIFICATE TRANSFERABILITY

This Certificate may be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6NYCRR Part 375-1.9.

CERTIFICATE MODIFICATION/REVOCATION

This Certificate of Completion may be modified or revoked by the Commissioner following notice and an opportunity for a hearing in accordance with ECL Section 27-1419 and 6NYCRR Part 375-1.9(e) upon a finding that:

(1) either the Applicant or the Applicant's successors or assigns have failed to comply with the terms and conditions of the Brownfield Site Cleanup Agreement;

(2) the Applicant made a misrepresentation of a material fact tending to demonstrate that it was qualified as a Volunteer;

(3) either the Applicant or the Applicant's successors or assigns made a misrepresentation of a material fact tending to demonstrate that the cleanup levels identified in the Brownfield Site Cleanup Agreement were reached;

(4) there is good cause for such modification or revocation;

(5) either the Applicant or the Applicant's successors or assigns failed to manage the controls or monitoring in full compliance with the terms of the remedial program;

(6) the terms and conditions of the environmental easement have been intentionally violated or found to be not protective or enforceable.

The Certificate holder(s) (including its successors or assigns) shall have thirty (30) days within which to cure any deficiency or to seek a hearing. If the deficiency is not cured or a request for a hearing is not received within such 30-day period, the Certificate shall be deemed modified or vacated on the 31st day after the Department's notice.

Basil Seggos
Commissioner
New York State Department of Environmental Conservation

By: _____ Date: 12/30/19

Michael J. Ryan, P.E., Director
Division of Environmental Remediation

NOTICE OF CERTIFICATE OF COMPLETION
Brownfield Cleanup Program
6 NYCRR Part 375-1.9(d)

ExxonMobil Oil Former Buffalo Terminal OU-3, Site ID No. C915201D
503 Elk Street and 1 Babcock Street, Buffalo, NY, 14210
City of Buffalo, Erie County Tax Map Identification Numbers:
123.13-1-2.111 and 123.13-1-21

PLEASE TAKE NOTICE, the New York State Department of Environmental Conservation (Department) has issued a Certificate of Completion (Certificate) pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law (ECL) to Elk Street Commerce Park, LLC for a site approximately 17.44 acres in size located at 503 Elk Street and 1 Babcock Street in the City of Buffalo, Erie County.

PLEASE TAKE NOTICE, the Certificate was issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the remediation requirements set forth in ECL Article 27, Title 14 have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

PLEASE TAKE NOTICE, the remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

- ☐ Unrestricted Use, as set forth in 6 NYCRR 375-1.8(g)(1)i
- ☐ Residential Use, as set forth in 6 NYCRR 375-1.8(g)(2)i.
- ☐ Restricted Residential Use, as set forth in 6 NYCRR 375-1.8(g)(2)ii.
- ☒ Commercial Use, as set forth in 6 NYCRR 375-1.8(g)(2)iii.
- ☒ Industrial Use, as set forth in 6 NYCRR 375-1.8(g)(2)iv.

Further, the use of groundwater is restricted and may not be used, unless treated in accordance with the requirements provided by the New York State Department of Health, or a local County Health Department with jurisdiction in such matters and such is approved by the Department as not inconsistent with the remedy.

PLEASE TAKE NOTICE, since the remedial program relies upon use restrictions or the long-term employment of institutional or engineering controls; such institutional or engineering controls are contained in an Environmental Easement granted pursuant to ECL Article 71, Title 36 which has been duly recorded in the Recording Office for Erie County as BK/PG D 11353/9483.

PLEASE TAKE NOTICE, the Environmental Easement requires that the approved site management plan (SMP) for this property be adhered to. The SMP, which may be amended from time to time, may include sampling, monitoring, and/or operating a treatment system on the property, providing certified reports to the NYSDEC, and generally provides for the management of any and all plans and limitations on the property. A copy of the SMP is available upon request by writing to the Department's Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, New York 12233.

PLEASE TAKE NOTICE, provided that the Environmental Easement, SMP and Certificate are complied with, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability

limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

PLEASE TAKE NOTICE, any change of use of the site, as defined in 6 NYCRR 375, must be preceded by notice to the Department in accordance with 6 NYCRR 375-1.11(d). A transfer of any or all of the property constitutes a change of use.

PLEASE TAKE NOTICE, the Certificate may be revoked if the Environmental Easement as implemented, if applicable, is not protective or enforceable.

PLEASE TAKE NOTICE, the Certificate may entitle the Certificate holder to tax credits in accordance with Tax Law Sections 21, 22 and 23.

PLEASE TAKE NOTICE, the Certificate may only be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6 NYCRR Part 375-1.9. Failure to comply with the regulatory requirements for transfer WILL bar the successors and assigns from the benefits of the Certificate.

PLEASE TAKE NOTICE, the Certificate may be modified or revoked by the Commissioner as set forth in the applicable regulations.

PLEASE TAKE NOTICE, a copy of the Certificate can be reviewed at the NYSDEC's Region 9 located at 270 Michigan Avenue, Buffalo, NY 14203, by contacting the Regional Environmental Remediation Engineer.

WHEREFORE, the undersigned has signed this Notice of Certificate

Elk Street Commerce Park, LLC

By: _____

Title: Co-Manager

Date: 1/31/20

STATE OF NEW YORK) SS:
COUNTY OF)

On the 31st day of January, in the year 2020 before me, the undersigned, personally appeared Paul Neureuter, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Signature and Office of individual taking acknowledgment

MARC A. ROMANOWSKI
Notary Public, State of New York
Registration No. 02RO6066651
Qualified in Erie County
My Commission Expires 11/19/2021

Please record and return to:
Elk Street Commerce Park, LLC
Attn: Paul Neureuter – Krog Development
4 Centre Drive
Orchard Park, NY 14127

limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

PLEASE TAKE NOTICE, any change of use of the site, as defined in 6 NYCRR 375, must be preceded by notice to the Department in accordance with 6 NYCRR 375-1.11(d). A transfer of any or all of the property constitutes a change of use.

PLEASE TAKE NOTICE, the Certificate may be revoked if the Environmental Easement as implemented, if applicable, is not protective or enforceable.

PLEASE TAKE NOTICE, the Certificate may entitle the Certificate holder to tax credits in accordance with Tax Law Sections 21, 22 and 23.

PLEASE TAKE NOTICE, the Certificate may only be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6 NYCRR Part 375-1.9. Failure to comply with the regulatory requirements for transfer **WILL** bar the successors and assigns from the benefits of the Certificate.

PLEASE TAKE NOTICE, the Certificate may be modified or revoked by the Commissioner as set forth in the applicable regulations.

PLEASE TAKE NOTICE, a copy of the Certificate can be reviewed at the NYSDEC's Region 9 located at 270 Michigan Avenue, Buffalo, NY 14203, by contacting the Regional Environmental Remediation Engineer.

WHEREFORE, the undersigned has signed this Notice of Certificate

Elk Street Commerce Park, LLC

By: _____

Title: Co-Manager

Date: 1/31/2020

STATE OF NEW YORK) SS:
COUNTY OF)

On the 31st day of January, in the year 2020 before me, the undersigned, personally appeared Paul Neureuter, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Signature and Office of individual taking acknowledgment

MARC A. ROMANOWSKI
Notary Public, State of New York
Registration No. 02RO6088851
Qualified in Erie County
My Commission Expires 11/18/2021

Please record and return to:
Elk Street Commerce Park, LLC
Attn: Paul Neureuter – Krog Development
4 Centre Drive
Orchard Park, NY 14127

NOTICE OF CERTIFICATE OF COMPLETION
Brownfield Cleanup Program
6 NYCRR Part 375-1.9(d)

ExxonMobil Oil Former Buffalo Terminal OU-3, Site ID No. C915201D
625 Elk Street, Buffalo, NY, 14210
City of Buffalo, Erie County Tax Map Identification Numbers 123.13-1-2.112

PLEASE TAKE NOTICE, the New York State Department of Environmental Conservation (Department) has issued a Certificate of Completion (Certificate) pursuant to Article 27, Title 14 of the New York State Environmental Conservation Law (ECL) to Elk Street Commerce Park, LLC for a parcel approximately 15.68 acres in size located at 625 Elk Street in the City of Buffalo, Erie County.

PLEASE TAKE NOTICE, the Certificate was issued upon satisfaction of the Commissioner, following review by the Department of the final engineering report and data submitted pursuant to the Brownfield Site Cleanup Agreement, as well as any other relevant information regarding the Site, that the remediation requirements set forth in ECL Article 27, Title 14 have been or will be achieved in accordance with the time frames, if any, established in the remedial work plan.

PLEASE TAKE NOTICE, the remedial program for the Site has achieved a cleanup level that would be consistent with the following categories of uses (actual site use is subject to local zoning requirements):

- ☐ Unrestricted Use, as set forth in 6 NYCRR 375-1.8(g)(1)i
- ☐ Residential Use, as set forth in 6 NYCRR 375-1.8(g)(2)i.
- ☐ Restricted Residential Use, as set forth in 6 NYCRR 375-1.8(g)(2)ii.
- ☒ Commercial Use, as set forth in 6 NYCRR 375-1.8(g)(2)iii.
- ☒ Industrial Use, as set forth in 6 NYCRR 375-1.8(g)(2)iv.

Further, the use of groundwater is restricted and may not be used, unless treated in accordance with the requirements provided by the New York State Department of Health, or a local County Health Department with jurisdiction in such matters and such is approved by the Department as not inconsistent with the remedy.

PLEASE TAKE NOTICE, since the remedial program relies upon use restrictions or the long-term employment of institutional or engineering controls; such institutional or engineering controls are contained in an Environmental Easement granted pursuant to ECL Article 71, Title 36 which has been duly recorded in the Recording Office for Erie County as BK/PG D 11353/9441.

PLEASE TAKE NOTICE, the Environmental Easement requires that the approved site management plan (SMP) for this property be adhered to. The SMP, which may be amended from time to time, may include sampling, monitoring, and/or operating a treatment system on the property, providing certified reports to the NYSDEC, and generally provides for the management of any and all plans and limitations on the property. A copy of the SMP is available upon request by writing to the Department's Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, New York 12233.

PLEASE TAKE NOTICE, provided that the Environmental Easement, SMP and Certificate are complied with, the Certificate holder(s) shall be entitled to the liability limitation provided in ECL Section 27-1421. The liability limitation shall run with the land, extending to the Certificate holder's successors or assigns through acquisition of title to the Site and to a person who develops or otherwise occupies the Site, subject to certain limitations as set forth in ECL Section 27-1421. The liability limitation shall be subject to all rights reserved to the State by ECL Section 27-1421.2 and any other applicable provision of law.

ExxonMobil Oil Former Buffalo Terminal OU-3, C915201D
625 Elk Street, Buffalo NY 14210

PLEASE TAKE NOTICE, any change of use of the site, as defined in 6 NYCRR 375, must be preceded by notice to the Department in accordance with 6 NYCRR 375-1.11(d). A transfer of any or all of the property constitutes a change of use.

PLEASE TAKE NOTICE, the Certificate may be revoked if the Environmental Easement as implemented, if applicable, is not protective or enforceable.

PLEASE TAKE NOTICE, the Certificate may entitle the Certificate holder to tax credits in accordance with Tax Law Sections 21, 22 and 23.

PLEASE TAKE NOTICE, the Certificate may only be transferred to the Certificate holder's successors or assigns upon transfer or sale of the Site as provided by ECL Section 27-1419.5 and 6 NYCRR Part 375-1.9. Failure to comply with the regulatory requirements for transfer **WILL** bar the successors and assigns from the benefits of the Certificate.

PLEASE TAKE NOTICE, the Certificate may be modified or revoked by the Commissioner as set forth in the applicable regulations.

PLEASE TAKE NOTICE, a copy of the Certificate can be reviewed at the NYSDEC's Region 9 located at 270 Michigan Avenue, Buffalo, NY 14203, by contacting the Regional Environmental Remediation Engineer.

WHEREFORE, the undersigned has signed this Notice of Certificate

Buckeye Terminals, LLC

By: _____

Title: Snr VP Buckeye Partners

Date: Jan 13, 2020

Texas
STATE OF ~~NEW YORK~~) SS:
COUNTY OF Harris)

On the 13th day of January, in the year 2020 before me, the undersigned, personally appeared William Hellis, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Signature and Office of individual
taking acknowledgment

APRIL GRAVIS
Notary Public, State of Texas
Comm. Expires 05-18-2022
Notary ID 124570687

Please record and return to:
Elk Street Commerce Park, LLC
Attn: Paul Neureuter – Krog Development
4 Centre Drive
Orchard Park, NY 14127

Exhibit A-1

Site Description

Property owned by
Elk Street Commerce Park, LLC
503 Elk Street and 1 Babcock Street

SCHEDULE "A" PROPERTY DESCRIPTION

OU3 Description
Property Owned by Elk Street Commerce Park, LLC

THAT TRACT OR PARCEL OF LAND, situate in the City of Buffalo, County of Erie, and State of New York, Being part of Lots 196, 197, 198, 199 and 200, Township 10, Range 8 of the Buffalo Creek Reservation, bound and described as follows;

Commencing at a point in the south line of Elk Street at its intersection with the west line of former Babcock Street;

Thence S 14°04'02" W along the west line of former Babcock Street, to the north line of former Prenatt Street, a distance of 757.05 feet, being the point of BEGINNING;

THENCE S 75°58'26" E, along the north line of former Prenatt Street, a distance of 1254.01 feet;

THENCE S 13°52'57" W, a distance of 248.23 feet;

THENCE N 76°43'41" W, a distance of 75.91 feet;

THENCE N 75°46'54" W, a distance of 147.34 feet;

THENCE S 14°13'06" W, a distance of 4.51 feet;

THENCE N 75°52'22" W, a distance of 51.14 feet;

THENCE N 14°13'06" E, a distance of 4.59 feet;

THENCE N 75°46'54" W, a distance of 8.42 feet;

THENCE N 62°28'23" W, a distance of 45.18 feet;

THENCE N 70°59'33" W, a distance of 10.49 feet;

THENCE S 13°56'18" W, a distance of 123.33 feet;

THENCE N 76°03'42" W, a distance of 8.61 feet;

THENCE S 13°53'44" W, a distance of 398.93 feet;

THENCE N 60°26'26" W, a distance of 129.60 feet;

THENCE N 13°53'44" E, a distance of 44.10 feet;

THENCE N 56°16'16" W, a distance of 110.08 feet;

THENCE S 33°38'09" W, a distance of 38.12 feet;
THENCE N 56°30'40" W, a distance of 60.28 feet;

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THENCE N 66°27'07" W, a distance of 17.01 feet;

THENCE N 75°32'46" W, a distance of 111.09 feet;

THENCE N 72°19'41" W, a distance of 46.30 feet;

THENCE N 68°43'57" W, a distance of 38.95 feet;

THENCE N 62°46'42" W, a distance of 73.96 feet;

THENCE S 14°01'34" W, a distance of 35.78 feet;

THENCE N 60°05'04" W, along a line being measured 4 feet perpendicular to the north line of the New Channel of the Buffalo River as adopted by Counsel Proceedings on October 17, 1917 P1958#54 a distance of 285.85 feet;

THENCE N 29°54'56" E, to the said north line of the New Channel of the Buffalo River, a distance of 4.00 feet;

THENCE N 60°04'54" W, along the said north line of the New Channel of the Buffalo River, to the east line of lands conveyed by deed recorded in the Erie County Clerk's Office in Liber 8145 of Deeds page 391, also being the west line of former Babcock Street, a distance of 55.70 feet;

THENCE N 14°04'02" E, along the east line of said lands of Liber 8145, page 391 and the west line of former Babcock Street, a distance of 73.60 feet;

THENCE S 81°30'54" W, a distance of 25.00 feet;

THENCE N 21°20'16" W, a distance of 479.80 feet;

THENCE N 13°42'27" E, to the south line of former Prenatt Street, a distance of 48.00 feet;

THENCE S 75°58'26" E, along the south line of former Prenatt Street, a distance of 301.36 feet;

THENCE N 14°04'02" E, a distance of 66.00 feet, to the point of BEGINNING, containing 17.44 acres, more or less.

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Exhibit A-2

Site Description

Property owned by
Buckeye Terminals, LLC
625 Elk Street

SCHEDULE "A" PROPERTY DESCRIPTION

OU3 Description
Property Owned by Buckeye Terminals, LLC

THAT TRACT OR PARCEL OF LAND, situate in the City of Buffalo, County of Erie, and State of New York, Being part of Lots 196, 197, 198, 199 and 200, Township 10, Range 8 of the Buffalo Creek Reservation, bound and described as follows;

Commencing at a point in the south line of Elk Street at its intersection with the west line of former Babcock Street;

THENCE S14°04'02" W, along the west line of former Babcock Street, to the north line of former Prenatt Street, a distance of 757.05 feet;

THENCE S75°58'26" E, along the north line of former Prenatt Street, a distance of 1847.78 feet to the point being the point of Beginning;

THENCE S 13°52'57" W, a distance of 248.23 feet;

THENCE N 76°43'41" W, a distance of 75.91 feet;

THENCE N 75°46'54" W, a distance of 147.34 feet;

THENCE S 14°13'06" W, a distance of 4.51 feet;

THENCE N 75°52'22" W, a distance of 51.14 feet;

THENCE N 14°13'06" E, a distance of 4.59 feet;

THENCE N 75°46'54" W, a distance of 8.42 feet;

THENCE N 62°28'23" W, a distance of 45.18 feet;

THENCE N 70°59'33" W, a distance of 10.49 feet;

THENCE S 13°56'18" W, a distance of 123.33 feet;

THENCE N 76°03'42" W, a distance of 8.61 feet;

THENCE S 13°53'44" W, a distance of 398.93 feet;

THENCE N 60°26'26" W, a distance of 129.60 feet;

THENCE N 13°53'44" E, a distance of 44.10 feet;

THENCE N 56°16'16" W, a distance of 110.08 feet;

THENCE S 33°38'09" W, a distance of 38.12 feet;

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THENCE N 56°30'40" W, a distance of 60.28 feet;

THENCE N 66°27'07" W, a distance of 17.01 feet;

THENCE N 75°32'46" W, a distance of 111.09 feet;

THENCE N 72°19'41" W, a distance of 46.30 feet;

THENCE N 68°43'57" W, a distance of 38.95 feet;

THENCE N 62°46'42" W, a distance of 73.96 feet;

THENCE S 14°01'34" W, a distance of 35.78 feet;

THENCE S 60°05'04" E, along a line being measured 4 feet perpendicular to the north line of the New Channel of the Buffalo River as adopted by Counsel Proceedings on October 17, 1917 P1958#54, a distance of 1199.15 feet;

THENCE N 29°51'17" E, to the said north line of the New Channel of the Buffalo River, a distance of 4.00 feet;

THENCE N 60°05'04" W, along the said north line of the New Channel of the Buffalo River, a distance of 5.71 feet;

THENCE N 44°46'50" E, a distance of 902.41 feet;

THENCE N 75°58'26" W, a distance of 60.53 feet;

THENCE N 06°22'06" W, the west line of Lot 200, a distance of 84.81 feet;

THENCE N 14°13'54" E, along the west line of lot 200, to the north line of former Prenatt Street, a distance of 134.56 feet;

THENCE N 75°58'26" W, along the north line of said Prenatt Street, a distance of 593.77 feet to the point of beginning, containing 16.85 acres, more or less.

Excluding the following areas:

Exception Area 'A'

THAT TRACT OR PARCEL OF LAND, situate in the City of Buffalo, County of Erie, and State of New York, Being part of Lots 198, and 199, Township 10, Range 8 of the Buffalo Creek Reservation, bound and described as follows;

Commencing at the point of beginning for the OU3 Buckeye Terminals, LLC. parcel;

THENCE S75°58'26" E, along the north line of former Prenatt Street, a distance of 180.26 feet;

THENCE S 14°01'34" W, a distance of 374.82 feet to the point of beginning;

THENCE S 13°17'19" W, a distance of 23.31 feet;

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THENCE S 27°04'32" E, a distance of 13.69 feet;

THENCE S 14°15'03" W, a distance of 39.16 feet;

THENCE N 76°48'55" W, a distance of 44.23 feet;

THENCE N 13°35'48" E, a distance of 25.36 feet;

THENCE N 76°07'28" W, a distance of 80.13 feet;

THENCE S 14°14'35" W, a distance of 30.92 feet;

THENCE N 76°14'57" W, a distance of 94.37 feet;

THENCE N 10°31'36" E, a distance of 1.53 feet;

THENCE N 77°46'01" W, a distance of 8.34 feet;

THENCE S 69°32'12" W, a distance of 33.03 feet;

THENCE N 76°12'35" W, a distance of 74.89 feet;

THENCE S 14°20'39" W, a distance of 318.91 feet;

THENCE S 73°49'47" E, a distance of 9.04 feet;

THENCE S 12°33'22" W, a distance of 12.47 feet;

THENCE S 76°33'42" E, a distance of 15.63 feet;

THENCE N 58°29'44" E, a distance of 11.02 feet;

THENCE S 76°35'31" E, a distance of 58.42 feet;

THENCE S 13°53'00" W, a distance of 74.60 feet;

THENCE S 60°05'27" E, a distance of 181.11 feet;

THENCE S 78°19'01" E, a distance of 20.73 feet;

THENCE N 11°30'15" E, a distance of 10.75 feet;

THENCE N 78°25'51" W, a distance of 27.13 feet;

THENCE N 60°00'15" W, a distance of 164.28 feet;

THENCE N 13°59'31" E, a distance of 80.19 feet;

THENCE N 76°11'39" W, a distance of 84.73 feet;

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THENCE N 13°45'35" E, a distance of 288.42 feet;

THENCE S 76°04'27" E, a distance of 503.65 feet;

THENCE S 78°07'11" E, a distance of 8.59 feet;

THENCE N 02°32'47" W, a distance of 19.45 feet;

THENCE N 75°54'43" W, a distance of 49.42 feet;

THENCE N 14°47'00" E, a distance of 24.63 feet;

THENCE S 76°06'56" E, a distance of 47.08 feet;

THENCE N 13°38'28" E, a distance of 30.60 feet;

THENCE N 76°10'05" W, a distance of 19.16 feet;

THENCE N 14°03'00" E, a distance of 4.98 feet;

THENCE N 76°02'09" W, a distance of 26.71 feet;

THENCE N 47°25'41" W, a distance of 11.26 feet;

THENCE N 76°00'01" W, a distance of 22.70 feet;

THENCE S 14°36'57" W, a distance of 37.64 feet;

THENCE N 74°08'00" W, a distance of 51.40 feet;

THENCE N 09°41'20" E, a distance of 2.55 feet;

THENCE N 74°50'25" W, a distance of 6.30 feet;

THENCE S 22°54'10" W, a distance of 3.46 feet;

THENCE N 73°16'26" W, a distance of 10.13 feet;

THENCE N 13°55'13" E, a distance of 48.56 feet;

THENCE S 78°07'08" E, a distance of 1.71 feet;

THENCE N 16°11'38" E, a distance of 7.40 feet;

THENCE S 77°02'44" E, a distance of 19.29 feet;

THENCE N 14°45'39" E, a distance of 11.66 feet;

THENCE N 74°05'23" W, a distance of 46.09 feet;

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THENCE N 59°02'40" W, a distance of 7.56 feet;

THENCE N 76°52'49" W, a distance of 17.53 feet to the point of beginning containing 0.84 acres, more or less.

Exception Area 'B'

THAT TRACT OR PARCEL OF LAND, situate in the City of Buffalo, County of Erie, and State of New York, Being part of Lots 199, Township 10, Range 8 of the Buffalo Creek Reservation, bound and described as follows;

Commencing at the point of beginning for the OU3 Buckeye Terminals, LLC. parcel;

THENCE S75°58'26" E, along the north line of former Prenatt Street, a distance of 285.55 feet;

THENCE S 14°01'34" W, a distance of 67.71 feet to the point of beginning;

THENCE S 13°29'41" W, a distance of 87.58 feet;

THENCE S 76°25'16" E, a distance of 15.66 feet;

THENCE S 14°18'59" W, a distance of 17.27 feet;

THENCE S 75°44'07" E, a distance of 18.80 feet;

THENCE S 14°05'51" W, a distance of 17.57 feet;

THENCE N 77°13'06" W, a distance of 17.52 feet;

THENCE S 13°42'04" W, a distance of 79.25 feet;

THENCE N 77°30'43" W, a distance of 2.90 feet;

THENCE S 13°47'42" W, a distance of 41.45 feet;

THENCE N 73°13'45" W, a distance of 2.05 feet;

THENCE S 13°50'53" W, a distance of 81.42 feet;

THENCE S 76°01'11" E, a distance of 23.73 feet;

THENCE N 61°32'45" E, a distance of 7.96 feet;

THENCE N 13°55'08" E, a distance of 168.09 feet;

THENCE N 18°10'44" E, a distance of 113.97 feet;

THENCE S 75°45'03" E, a distance of 53.44 feet;

THENCE N 13°16'10" E, a distance of 14.93 feet;

Book11257/Page2405

THENCE N 59°55'47" W, a distance of 26.17 feet;

THENCE N 76°00'22" W, a distance of 62.51 feet;

THENCE N 64°06'49" W, a distance of 10.63 feet;

THENCE N 10°42'37" E, a distance of 13.36 feet;

THENCE N 73°24'45" W, a distance of 5.52 feet to the point of beginning containing 0.25 acres, more or less;

Exception Area 'C'

THAT TRACT OR PARCEL OF LAND, situate in the City of Buffalo, County of Erie, and State of New York, Being part of Lots 199, Township 10, Range 8 of the Buffalo Creek Reservation, bound and described as follows;

Commencing at the point of beginning for the OU3 Buckeye Terminals, LLC. parcel;

THENCE S75°58'26" E, along the north line of former Prenatt Street, a distance of 433.68 feet;

THENCE S 14°01'34" W, a distance of 472.68 feet to the point of beginning;

THENCE N 76°35'43" W, a distance of 36.36 feet;

THENCE S 03°38'37" W, a distance of 11.42 feet;

THENCE on a curve to the left with an arc length of34.32 feet and radius of 25.00 feet;
THENCE S 75°00'53" E, a distance of 85.96 feet;

THENCE N 44°46'50" E, a distance of 33.20 feet;

THENCE N 75°52'53" W, a distance of 92.81 feet;

THENCE N 14°07'56" E, a distance of 4.88 feet, to the point of beginning, containing 0.08 acres, more or less;

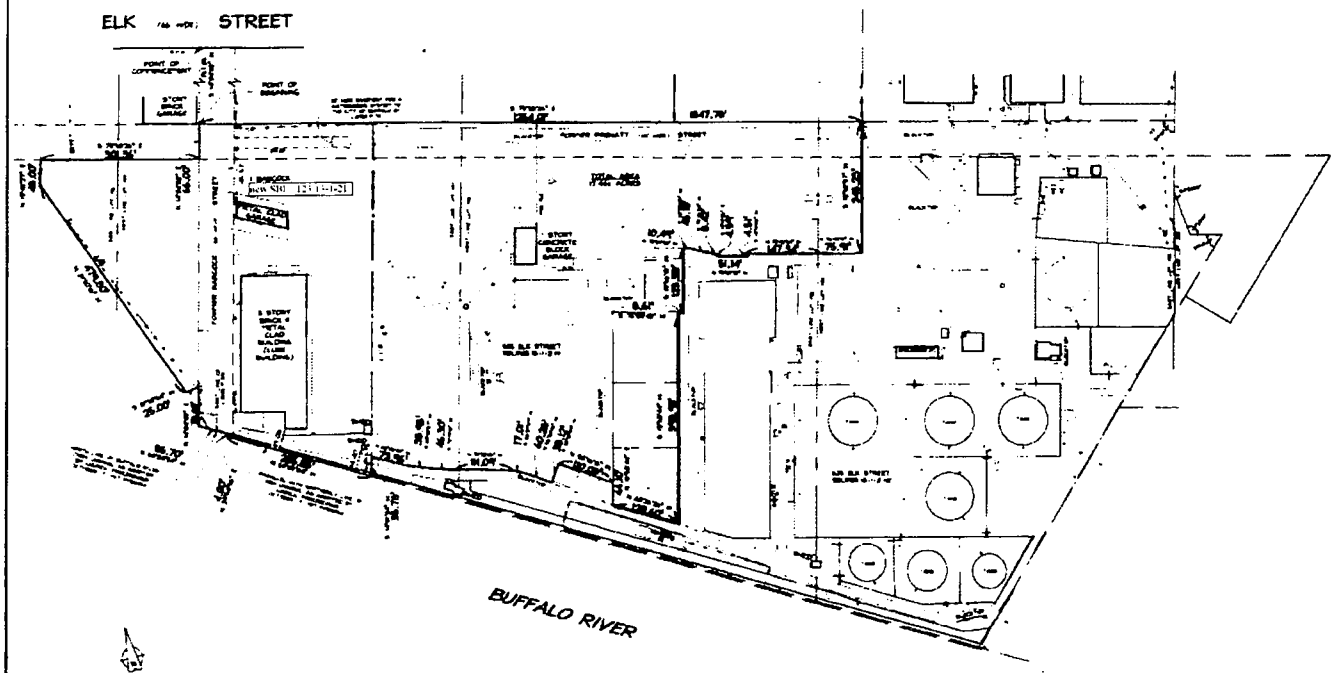
Containing a total area of 15.68 acres, more or less.

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Exhibit B-1

Site Survey

Property owned by
Elk Street Commerce Park, LLC
503 Elk Street and 1 Babcock Street



THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

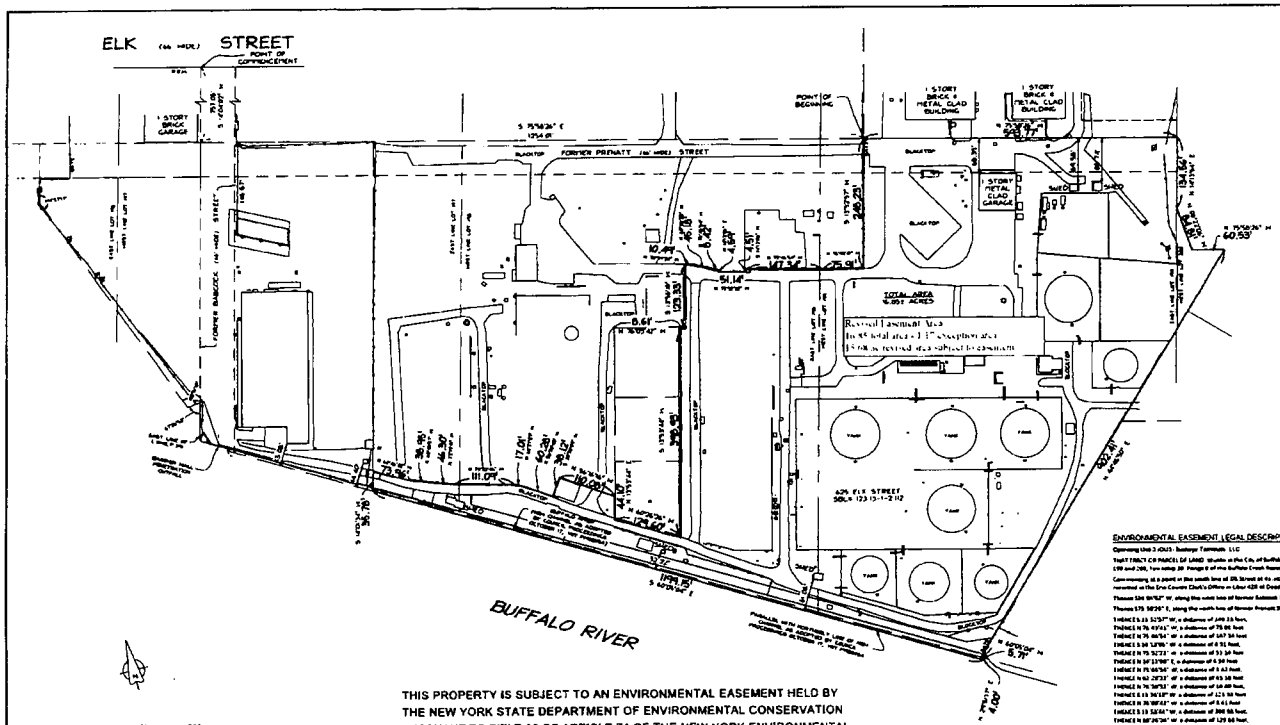
OPERATING UNIT 3 - LANDS OWNED BY ELK STREET COMMERCE PARK, LLC
BCP SITE ID NO. C915201D

ENVIRONMENTAL EASEMENT SURVEY

Exhibit B-2

Site Survey

Property owned by
Buckeye Terminals, LLC
625 Elk Street



THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV

NOTE
BEARINGS AS SHOWN ARE REFERENCED TO NAD83

ENVIRONMENTAL EASEMENT LEGAL DESCRIPTION

Operating Unit 3 (OU3): Buckeye Terminals, LLC

THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie, and State of New York, being part of Lots 198, 197, 199 and 200, Township 10, Range 8 of the Buffalo Creek Reservation, bound and described as follows:

Commencing at a point on the south line of Elk Street at its intersection with the west line of former Babcock Street as shown on a map recorded in the Erie County Clerk's Office in Liber 428 of Deeds at page 113;

Thence S84°56'57" W, along the south line of former Babcock Street, to the north line of former Prospect Street, a distance of 717.95 feet;

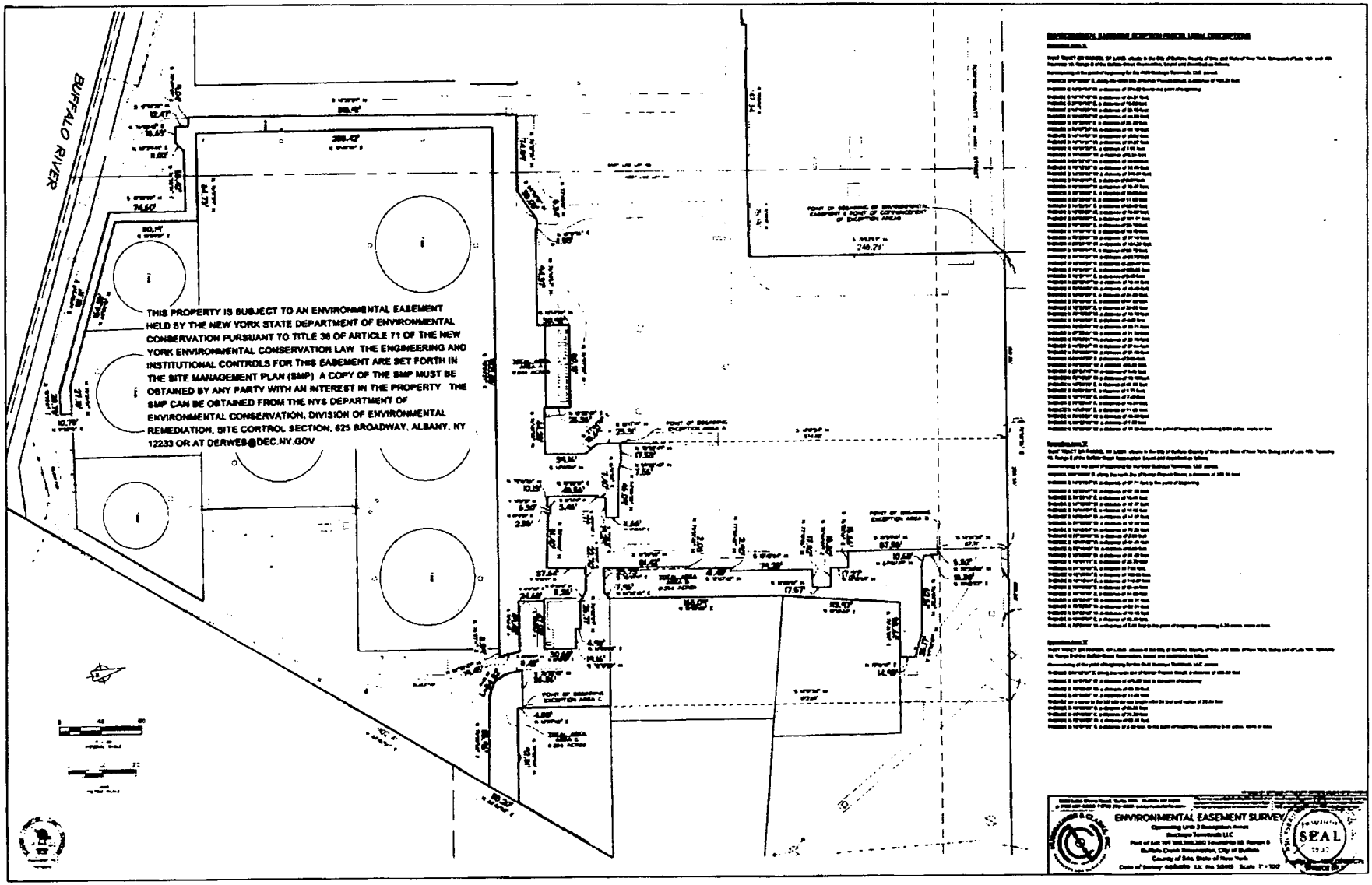
Thence S75°58'26" E, along the north line of former Prospect Street, a distance of 1267.76 feet to the point along the point of Beginning;

THENCE S 11°52'57" W, a distance of 249.23 feet;
THENCE N 76°49'43" W, a distance of 79.86 feet;
THENCE S 74°06'54" W a distance of 147.34 feet;
THENCE S 54°58'06" W a distance of 6.91 feet;
THENCE N 75°52'23" W a distance of 51.34 feet;
THENCE N 34°33'06" E, a distance of 6.94 feet;
THENCE N 75°06'54" W a distance of 5.62 feet;
THENCE N 62°28'33" W a distance of 65.38 feet;
THENCE N 76°58'53" W a distance of 10.69 feet;
THENCE S 11°06'47" W a distance of 123.98 feet;
THENCE N 78°08'03" W a distance of 5.61 feet;
THENCE S 11°52'57" W a distance of 366.98 feet;
THENCE N 88°26'06" W a distance of 129.66 feet;
THENCE N 15°50.84' E a distance of 44.19 feet;
THENCE N 86°18'39" W a distance of 138.66 feet;
THENCE S 5°00'00" W, a distance of 88.12 feet;
THENCE N 86°54'00" W a distance of 99.26 feet;
THENCE N 86°37'0" W a distance of 17.01 feet;
THENCE N 75°32'06" W a distance of 111.66 feet;
THENCE N 75°18'11" W a distance of 66.36 feet;
THENCE N 80°57'5"" W a distance of 88.86 feet;
THENCE N 82°48'43" W a distance of 79.86 feet;
THENCE S 84°00'56" W a distance of 35.76 feet;
THENCE S 84°00'56" E, along a line being measured 4 feet perpendicular to the north line of the New Channel of the Buffalo River as established by Counsel Proceedings on October 27 1857 Fl/350/54, a distance of 1139.23 feet;
THENCE N 39°32'17" E to the west north line of the New Channel of the Buffalo River, a distance of 4.99 feet;
THENCE N 88°00'56" W along the west north line of the New Channel of the Buffalo River, a distance of 3.74 feet;
THENCE N 84°56'06" E a distance of 662.81 feet;
THENCE N 75°30'06" W a distance of 87.55 feet;
THENCE N 88°32'06" W the west line of Lot 200 a distance of 84.81 feet;
THENCE N 34°43'54" E along the west line of lot 200 to the north line of former Prospect Street, a distance of 150.34 feet;
THENCE N 75°58'26" E along the north line of said Prospect Street, a distance of 365.71 feet to the point of beginning, containing 16.95 acres, more or less

OPERATING UNIT 3 - LANDS OWNED BY BUCKEYE TERMINALS, LLC
BCP SITE ID NO. C915201D

2336 Lake Shore Road, Suite 300 Buffalo, NY 14219
p (716) 827-9000 f (716) 270-6091 www.nussercable.com

ENVIRONMENTAL EASEMENT SURVEY
Operating Unit 3
625 Elk Street Buckeye Terminals LLC
Part of Lot 197 198 199 200 Township 10 Range 8
Buffalo Creek Reservation City of Buffalo
County of Erie State of New York
Date of Survey 06/28/19 Lic. No 50475 Scale 1" = 100' Project No 18JJ-03618C.N


BUFFALO RIVER
THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP) A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY THE SMP CAN BE OBTAINED FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV
ENVIRONMENTAL EASEMENT SURVEY
SEAL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Form
12/23/2019

SITE DESCRIPTION

SITE NO. **C915201D**

SITE NAME ExxonMobil Oil Former Buffalo Terminal OU-3

SITE ADDRESS: 503/625 Elk Street and 1 Babcock St. ZIP CODE: 14210

CITY/TOWN: Buffalo

COUNTY: Erie

ALLOWABLE USE: Commercial and Industrial

SITE MANAGEMENT DESCRIPTION

SITE MANAGEMENT PLAN INCLUDES:	YES	NO
IC/EC Certification Plan	■	□
Monitoring Plan	■	□
Operation and Maintenance (O&M) Plan	■	□

Periodic Review Frequency: once a year

Periodic Review Report Submitted Date: 04/30/2021

Description of Institutional Control

Buckeye Terminals, LLC
Five Tek Park - 9999 Hamilton Blvd.
625 Elk Street
Environmental Easement
Block: 1
Lot: 2
Sublot: 112
Section: 123
Subsection: 13
S_B_L Image: 123.13-1-2.112
Building Use Restriction
Ground Water Use Restriction
IC/EC Plan
Landuse Restriction
Monitoring Plan
O&M Plan
Site Management Plan
Soil Management Plan

Elk Street Commerce Park, LLC

4 Centre Drive

1 Babcock Street

Environmental Easement

Block: 1

Lot: 21

Sublot:

Section: 123

Subsection: 13

S_B_L Image: 123.13-1-21

Building Use Restriction

Ground Water Use Restriction

IC/EC Plan

Landuse Restriction

Monitoring Plan

O&M Plan

Site Management Plan

Soil Management Plan

503 Elk Street

Environmental Easement

Block: 1

Lot: 2

Sublot: 111

Section: 123

Subsection: 13

S_B_L Image: 123.13-1-2.111

Building Use Restriction

Ground Water Use Restriction

IC/EC Plan

Landuse Restriction

Monitoring Plan

O&M Plan

Site Management Plan

Soil Management Plan

Description of Engineering Control

Buckeye Terminals, LLC

Five Tek Park - 9999 Hamilton Blvd.

625 Elk Street

Environmental Easement

Block: 1

Lot: 2

Sublot: 112

Section: 123

Subsection: 13

S_B_L Image: 123.13-1-2.112

Cover System

Groundwater Containment

Groundwater Treatment System

Monitoring Wells

Subsurface Barriers

Elk Street Commerce Park, LLC

4 Centre Drive

1 Babcock Street

Environmental Easement

Block: 1

Lot: 21

Sublot:

Section: 123

Subsection: 13

S_B_L Image: 123.13-1-21

Cover System

Groundwater Containment

Groundwater Treatment System

Monitoring Wells

Subsurface Barriers

503 Elk Street

Environmental Easement

Block: 1

Lot: 2

Sublot: 111

Section: 123

Subsection: 13

S_B_L Image: 123.13-1-2.111

Cover System

Groundwater Containment

Groundwater Treatment System

Monitoring Wells

Subsurface Barriers

New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

Basil Seggos
Commissioner

March 1, 2021

Paul Neureuter
Elk Street Commerce Park, LLC
4 Centre Drive
Orchard Park, NY 14127

Re: Change of Use
ExxonMobil Oil Former Buffalo
Terminal OU-3, C915201D

Dear Paul Neureuter:

This letter acknowledges receipt of your January 18, 2021 60-Day Advance Notification of Change of Use for the above referenced site, wherein the type of change was indicated as a proposed transfer of the Certificate of Completion (CoC) and installation of a solar energy generating facility. This acknowledgement is not intended to imply approval or concurrence with the proposed change of use.

Please ensure that post-transfer notification is submitted within 30 days of the transfer, as required under 6 NYCRR Part 375-1.11(d)(3)(ii) and 375-1.9(f)(1)(ii). These notifications must include the name of the new owner, new owner's contact information, contact representative, contact information for such representative, and proof of filing of the Notice of Transfer of CoC.

Failure to comply with the regulatory requirements of transfer notices may prevent successors and assigns from receiving any rights benefits, or protections as provided by statute or regulation.

If you have any questions or need additional information, you may contact me at the address given above.

Sincerely,

Megan Kuczka
Environmental Program Specialist 1

ec: Andrea Caprio – NYSDEC
Eugene Melnyk – NYSDEC
Timothy Ryan – Elk Street Solar LLC
Marc Romanowksi – Rupp Baase Pfalzgraph Cunningham, LLC
Krista Manley – Buckeye Terminals, LLC
Robert Napieralski – LaBella Associates
Andy Janik – LaBella Associates

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220| F: (716) 851-7226
www.dec.ny.gov

February 3, 2022

Andy Janik
LaBella Associates
300 Pearl Street
Suite 130
Buffalo, NY 14202

Re: Change of Use - Work Plan
ExxonMobil Oil Former Buffalo Terminal
OU-3 & OU-2 East
Buffalo, Erie County, Site No.: **C915201D & B**

Dear Andy Janik:

The Department has reviewed and hereby accepts the *ExxonMobil Former Buffalo Terminal Operable Units 2 East and 3 – BQ Energy Development, LLC Change of Use Letter Work Plan* submitted February 1, 2022. As noted within the Work Plan, please submit copies of any City of Buffalo approvals or permits to the Department once received. If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

ec: Andrea Caprio – NYSDEC
Eugene Melnyk – NYSDEC
Shaun Surani – NYSDOH
Charlotte Bethoney - NYSDOH
Paul Neureuter – Elk Street Commerce Park, LLC
Timothy Ryan – Elk Street Solar LLC
Alicia Scott – BQ Energy Development, LLC
Krista Manley – Buckeye Terminals, LLC
Robert Napieralski – LaBella Associates

From:	Kuczka, Megan E (DEC)
To:	"Janik, Andrew"
Cc:	"megan.drean@inovateus.com"; "Matthew Pearson"; "Todd Collins"; "Finn, Christopher"; Melnyk, Eugene W (DEC)
Subject:	RE: Elk Street Solar Excavation Notification - OU2-East (Site #915201B)
Date:	Friday, March 8, 2024 2:44:00 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png

Andy –

The Department has no comments on the proposed excavations and cover system modifications noted within the March 6th letter. Please proceed as indicated in the letter.

Have a great weekend,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov |

From: Kuczka, Megan E (DEC)
Sent: Thursday, March 7, 2024 7:59 AM
To: Janik, Andrew <ajanik@LaBellaPC.com>
Cc: megan.drean@inovateus.com; Matthew Pearson <mpearson@kroggrp.com>; Todd Collins <todd.collins@inovateus.com>; Finn, Christopher <cfinn@LaBellaPC.com>; Melnyk, Eugene W (DEC) <eugene.melnyk@dec.ny.gov>
Subject: RE: Elk Street Solar Excavation Notification - OU2-East (Site #915201B)

Andy –

The excavation notification has been received. NYSDEC will review and will reach out with any questions.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |
NEW YORK STATE | Department of Environmental Conservation

From: Janik, Andrew <ajanik@LaBellaPC.com>
Sent: Wednesday, March 6, 2024 1:30 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: megan.drean@inovateus.com; Matthew Pearson <mpearson@kroggrp.com>; Todd Collins <todd.collins@inovateus.com>; Finn, Christopher <cfinn@LaBellaPC.com>
Subject: Elk Street Solar Excavation Notification - OU2-East (Site #915201B)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Megan,

As you are aware, work has been ongoing at the Elk Street Solar site (primarily OU-3) since the beginning of the year. In the sequence of construction, we are ready to begin the intrusive and cover system modification tasks. These tasks are outlined in the attached letter notification.

Should you have any questions or comments, please let me know. You will notice a request to begin these tasks on 3/12/24. Hopefully, this can be accommodated!

Thanks,

Andy Janik, PG
LaBella Associates | Project Manager
LaBella Powered by partnership.

300 Pearl Street, Suite 130
Buffalo, NY 14202
716-345-6709 Cell
labellapc.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

March 25, 2024

Andy Janik
LaBella Associates
300 Pearl Street, Suite 130
Buffalo, New York 14202

Dear Andy Janik:

Site Management (SM)
Revised Change of Use Work Plan
ExxonMobil Oil Former Buffalo Terminal
OU-2 East & OU-3
Buffalo, Erie County, Site No.: **C915201B & D**

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed and hereby approve the *ExxonMobil Former Buffalo Terminal Operable Units 2 East and 3 – Clean Capital (formerly BQ Energy Development, LLC) Change of Use Letter Work Plan* received March 25, 2024. Please notify the Department 7-days in advance of beginning onsite activities and note these activities within the upcoming Periodic Review Report. If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

ec: Andrea Caprio, P.E., Regional Remediation Engineer, NYSDEC Region 9
Eugene Melnyk, P.E., Project Manager, NYSDEC Region 9
Charlotte Bethoney, Region Chief, Public Specialist IV, NYSDOH Albany
Wendy Kuehner, P.E., Assistant Bureau Director, NYSDOH Albany
Shaun Surani, Public Health Specialist, NYSDOH Albany
Paul Neureuter, Elk Street Commerce Park, LLC
Timothy Ryan, Elk Street Solar LLC
Alicia Scott, Clean Capital
Alyssa Hartigan, Clean Capital
Sierra Haney, Clean Capital
Robert Napieralski, LaBella Associates
Matt Pearson, Elk Street Commerce Park, LLC

APPENDIX 3

Waste Manifest

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	42152416596	10/30/2027	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 4215 - Niagara Falls LF

Generator Name: Elk Street Commerce Park LLC

Generator Site Address: 503 Elk Street

City: Buffalo **County:** **State:** NY **Zip:**

Name of Waste: Soil

Estimated Annual Volume: 60 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

NY State Dept of Environmental Conservation Division of Materials Management, Region 9 approved application # 4928 on 11/1/24.

Special Waste Analyst Signature: J Maul **Name (Printed):** Jennifer Maul

Date: 11/4/2024

III. Facility Decision: ○ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Russell Capizzi **Name (Printed):** Russell Capizzi

Date: 11/4/2024

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	42152416596	10/30/2027	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 4215 - Niagara Falls LF

Generator Name: Elk Street Commerce Park LLC

Generator Site Address: 503 Elk Street

City: Buffalo **County:** **State:** NY **Zip:**

Name of Waste: Soil

Estimated Annual Volume: 60 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

NY State Dept of Environmental Conservation Division of Materials Management, Region 9 approved application # 4928 on 11/1/24.

Special Waste Analyst Signature: J Maul **Name (Printed):** Jennifer Maul

Date: 11/4/2024

III. Facility Decision: ○ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 11/4/2024

Special Waste Profile

Disposal Facility: 4215 Pine Avenue Landfill NY

Waste Profile # 42152416596

Sales Rep #: Jack Palermo

I. Generator Information

Generator Name: Elk Street Commerce Park, LLC

Generator Site Address: 503 Elk Street

City: Buffalo County: Erie State: New York ZIP: 14210

State ID/Reg. No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☑ (if different 4 Centre Drive

City: Orchard Park County: Erie State: New York ZIP: 14127

Generator Contact Name: Matthew Pearson Email: mpearson@kroggrp.com

Phone Number: 716-667-1234 Ext: Fax Number:

II. Billing Information

Bill to: LaBella Associates Contact Name: Gregory Czworka

Billing Address: 300 State St., Ste. 201 Email: AP@LaBellapc.com

City: Rochester State: New York ZIP: 14614 Phone: 585-402-7015

III. Waste Stream Information

Name of Waste: Soil

Process Generating Waste: Excavation of soil to accommodate the installation of utility poles.

Type of Waste: Pollution Control Waste Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 60 Volume Type: Tons

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☐ **No Sample Taken**

☑ **Sample Taken** **Type of Sample** Composite Sample

Is the representative sample collected to prepare this profile and laboratory analysis collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☑ **Yes** ☐ **No**

Sample Date: 6/27/24 Sample ID Numbers or SDS: "WC-1"

Initial here

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):	% By Weight (out of 100% – ranges acceptable):
1. 98% Soil	98%
2. 2% gravel/stone	2%
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Brown	N/A	☐ Yes ☑ No	100	NA	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following pesticides and/or herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33	☐ Yes ☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761	☐ Yes ☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-listed solvents?	☐ Yes ☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6. Does this waste exhibit a hazardous characteristic as defined by federal and/or state regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by federal, state or both	☐ Yes ☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31	☐ Yes ☑ No
8. Is this a regulated medical or infectious waste as defined by federal and/or state regulations	☐ Yes ☑ No
9. Is this a regulated radioactive waste as defined by federal and/or state regulations	☐ Yes ☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2. Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3. Is this waste generated at a state or federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?	☐ Yes ☑ No
4b. If yes to the above question, please provide clarification	

Initial here

Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Matthew Pearson	Property Manager	Elk Street Commerce Park, LLC
Authorized Representative Name (Printed)	Title (Printed)	Company Name

Matt Pearson

Representative Signature

10/30/24

Date

Third Party Signature Authorization For Special Waste Disposal

Date: 10/30/24

Profile Number:

For office use only.

This Authorization is only valid for 3 years from the above date.

To Whom It May Concern:

Please be advised that the following company/individual has been appointed to work as our agent for purposes of managing waste materials that we may generate.

Name of Waste: Soil/Excavation Spoils

Andy Janik
Name of Authorized Agent

Project Manager
Title

LaBella Associates
Name of Company

716-345-6709
Telephone Number

The above broker/individual is authorized to act as our authorized agent for the following purposes:

- ☑ Complete and sign Special Waste Profile
- ☑ Complete and sign Special Waste Profile-Recertification
- ☑ Authorize amendments to Special Waste Profile
- ☑ Sign contracts to dispose and/or transport material
- ☑ Sign certifications necessary to comply with landfill requirements
- ☑ Sign manifests to initiate shipment to disposal facilities

I hereby certify that I have the requisite authority to grant agency authority on the behalf of Company to the Authorized Agent identified on this Third Party Signature Authorization form ("Authorization"). Our Authorized Agent will notify Company prior to taking any of the actions authorized above and will provide Company with copies of any documents bearing Company's name.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Authorization may be accepted with the same authority as the original.

Elk Street Commerce Park, LLC
Name of Company

4 Centre Drive, Orchard Park, NY 14127
Mailing Address

Matthew Pearson
Generator Contact (Print Name)

Property Manager
Title

Matt Pearson
Signature

716-667-1234
Telephone Number

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

November 1, 2024

Rhonda Gora
Special Waste Coordinator
Republic Services
1220 Commerce Street SW
Conover, North Carolina 28613

Dear Rhonda Gora:

Elk Street Commerce Park, LLC
503 Elk Street, Buffalo, New York 14210
Soil
Application # 4928

The Department has reviewed the above referenced application for treatment or Disposal of an Industrial Waste Stream (Form 47-17-7). Based on the information provided, this waste stream is **approved for 1000 tons for disposal at the Allied Waste Niagara Falls Landfill** in Niagara Falls, New York. This approval expires on October 30, 2027.

You have also requested that this material be approved for alternate daily cover (ADC). Based on the analytical data submitted with this application, this material appears to be acceptable for this purpose. This letter shall serve notice that the above referenced material has been approved for use as an ADC at your facility. Please note; material shall not contain free liquids.

As with all daily covers, these materials must be spread in six-inch layers unless otherwise pre-approved and they must control vectors, fires, blowing litter, odors and scavenging. Furthermore, the use of ADCs must not in itself produce nuisances (e.g. dusting and odors). In the event that nuisances do develop, this approval will be rescinded. In addition, runoff from the ADCs must be collected by the landfill's leachate collection system and tracking of the material out of the landfill footprint must be prevented. It is also understood that ADCs are not to be reused after initial placement. Finally, the ADC shall be used where it will be covered by the next day's waste or by clean soil.

Temporary storage of the ADC material is acceptable, provided that the following conditions are met. The storage area must be on an active portion of the landfill that allows run-off from the stockpile to be collected in the leachate collection system. The storage area should be located away from truck and equipment traffic to prevent tracking of the stockpiled material. Stockpiles should not be created next to slopes which may promote the dispersion of the ADC material due to erosion of the stockpile. Also, stockpiled material must not produce any nuisances (e.g. dusting or odors). If nuisances do develop, the stockpiled material must be promptly disposed in the landfill. Stockpiles of ADC should, in no way, interfere with the normal daily operation of the landfill. Finally, the amount and length of storage for ADCs should be minimized.

Should you have any questions, please contact this office at 716-851-7220.

Sincerely,

Matthew Slominski

Matthew Slominski
Assistant Engineer

ec: Beverly Lewinski, P.E., Professional Engineer 1, NYSDEC Region 9

47-19-7 (10/86) - Text 12 (E-Reproduction)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE • BUREAU OF HAZARDOUS WASTE OPERATIONS
50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

FOR STATE USE ONLY		
SITE NO. **32S11**	APPLICATION NO. 4928, ADC	DATE RECEIVED 10/30/2024
DEPARTMENT ACTION ☒ Approved ☐ Disapproved MRS		DATE 11/1/2024

APPLICATION FOR TREATMENT OR DISPOSAL OF AN INDUSTRIAL WASTE STREAM

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

1. NAME OF PROJECT/FACILITY	2. COUNTY	3. SITE NUMBER
Allied Niagara Falls Landfill	**Niagara**	**32S11**
4. NAME OF OWNER **Allied Waste Systems**	5. ADDRESS (Street, City, State, Zip Code) **5600 Niagara Falls Blvd., Niagara Falls, New York 14304-0354**	6. TELEPHONE NO. **(716) 285-3344**
7. NAME OF OPERATOR **Allied Waste Systems**	8. ADDRESS (Street, City, State, Zip Code) **Same as Section 5 above**	9. TELEPHONE NO. **(716) 285-3344**

10. METHOD OF TREATMENT OR DISPOSAL

Sanitary Landfill
Disposal Code D90

11. COMPANY GENERATING WASTE	12. ADDRESS OF FACILITY GENERATING WASTE (Street, City, State, Zip Code)
Elk Street Commerce Park, LLC.	**503 Elk Street, Buffalo, NY 14210**

13. REPRESENTATIVE OF WASTE GENERATOR	14. MAILING ADDRESS OF REPRESENTATIVE	15. TELEPHONE NO.
Matthew Pearson	**4 Centre Drive, Orchard Park, NY 14127**	**716-667-1234**

16. DESCRIPTION OF PROCESS PRODUCING WASTE

Excavation of soil to accommodate the installation of utility poles

17. EXPECTED ANNUAL WASTE PRODUCTION: **60** Tons/Year _____ Gallons/Year

18. WASTE HAULED IN: ☐ Drums ☐ Bulk Tank ☐ Roll-Off Container ☒ Other **Truck**

19. WASTE COMPOSITION
19a. Average Percent Solids: **100 %**

19b. PHYSICAL STATE: ☐ Liquid ☐ Slurry ☐ Sludge ☒ Solid ☐ Contained Gas

19c. pH Range: **~6** to **~8**

19. COMPONENTS	CONCENTRATION (Dry Weight) Upper	Lower	Typical	UNIT (Check One) Wt.%	PPM
1) **Soil**			**100%**	☐	☐
2)				☐	☐
3)				☐	☐
4)				☐	☐

20. IS AN ANALYSIS OF WASTE ATTACHED?	21. WAS A TCLP TEST CONDUCTED ON THE WASTE?	22. MATERIAL IS:
☒ Yes ☐ No	☒ Yes ☐ No If "Yes", attach results	☐ Hazardous ☒ Non-Hazardous

23. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIATED WITH THE WASTES. List necessary safety, handling, treatment, and disposal precautions.

24. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?
N/A

25. NAME OF WASTE TRANSPORTER	26. ADDRESS (Street, City, State, Zip Code)	27. NYSDEC PERMIT NO.	28. TELEPHONE NO.

29. CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

a. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR	DATE
Matt Pearson	10/30/24
b. SIGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY	DATE
Jack Palermo	10/30/2024

SITE **NIAGARA FALLS LANDFILL 716-282-6381**
5600 Niagara Falls Blvd -Niagara Falls, NY 14304

CUSTOMER 392085
LABELLA ASSOCIATES DPC
300 STATE STREET
ROCHESTER, NY 14614
Contract:42152416596
Generator:Elk Street Commerce Park LLC

SITE 5B	TICKET # 1280281	CELL	
WEIGHMASTER	Pam S.		
DATE/TIME IN	12/4/24 10:58 am	DATE/TIME OUT	12/4/24 10:58 am
VEHICLE	SWAN 113	CONTAINER	
REFERENCE			
BILL OF LADING	3818984		

SCALE IN GROSS WEIGHT 72,560 NET TONS 21.78
TARE OUT TARE WEIGHT 29,000 NET WEIGHT 43,560

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
12.00	YD	Tracking QTY				
21.78	tn	SW-CONT SOIL Origin:NY-ERIE 100%				

Have a nice day. Thank you for your business!

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR2 (12-20)

SIGNATURE

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3818984

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of

d. Generator's Name and Location:	e. Generator's Mailing Address:
Elk Street Commerce Park, LLC 603 Elk Street, Buffalo, NY 14210 f. Phone:	Elk Street Commerce Park, LLC 4 Centre Drive, Orchard Park, NY 14127 g. Phone:
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
A. 42152416596	10/30/2027	Soil	1	T	12yds	
B.						
C.						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Carly Hepka behalf of E.S.C.P	behalf of ESCP	12/4/24

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
Scott trucking Truck # 115

b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Joe Youngs		12/4/24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Allied Waste Niagara Falls Landfill LLC 5600 Niagara Falls Blvd, Niagara Falls NY 716-285-3344 b.		

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
	PO# 22814	12/04/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE **NIAGARA FALLS LANDFILL 716-282-6381**
5600 Niagara Falls Blvd -Niagara Falls, NY 14304

CUSTOMER 392085
LABELLA ASSOCIATES DPC
300 STATE STREET
ROCHESTER, NY 14614
Contract:42152416596
Generator:Elk Street Commerce Park LLC

SITE 5B	TICKET # 1280308	CELL	
WEIGHMASTER	Pam S.		
DATE/TIME IN	12/4/24 12:58 pm	DATE/TIME OUT	12/4/24 12:58 pm
VEHICLE	SWAN 113	CONTAINER	
REFERENCE			
BILL OF LADING	3818983		

SCALE IN GROSS WEIGHT 62,680 NET TONS 16.84
TARE OUT TARE WEIGHT 29,000 NET WEIGHT 33,680

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
12.00	YD	Tracking QTY				
16.84	tn	SW-CONT SOIL Origin:NY-ERIE 100%				

Have a nice day. Thank you for your business!

NET AMOUNT
TENDERED
CHANGE
CHECK#

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SIGNATURE

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3818983

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a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of

d. Generator's Name and Location:	e. Generator's Mailing Address:
Elk Street Commerce Park, LLC 503 Elk Street, Buffalo, NY 14210 f. Phone:	Elk Street Commerce Park, LLC 4 Centre Drive, Orchard Park, NY 14127 g. Phone:
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
A. 42152416596	10/30/2027	Soil	1	T	12yds	
B.						
C.						

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p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Cody Rooka behalf of E.S.C.P.	Cody Rooka behalf of E.S.C.P.	12/4/24

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
Tract 44 113
Seven Hydro NY

b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Joe Kasper		12/04/24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Allied Waste Niagara Falls Landfill LLC 5600 Niagara Falls Blvd, Niagara Falls NY 716-285-9344 b.		

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
	POScott	12/04/24

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE **NIAGARA FALLS LANDFILL 716-282-6381**
5600 Niagara Falls Blvd -Niagara Falls, NY 14304

CUSTOMER 392085
LABELLA ASSOCIATES DPC
300 STATE STREET
ROCHESTER, NY 14614
Contract:42152416596
Generator:Elk Street Commerce Park LLC

SITE 5B	TICKET # 1280259	CELL	
WEIGHMASTER	Pam S.		
DATE/TIME IN	12/4/24 9:13 am	DATE/TIME OUT	12/4/24 9:13 am
VEHICLE	SWAN 113	CONTAINER	
REFERENCE			
BILL OF LADING	3818979		

SCALE IN GROSS WEIGHT 69,540 NET TONS 20.27
TARE OUT TARE WEIGHT 29,000 NET WEIGHT 40,540

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
12.00	YD	Tracking QTY				
20.27	tn	SW-CONT SOIL Origin:NY-ERIE 100%				

Have a nice day. Thank you for your business!

NET AMOUNT
TENDERED
CHANGE
CHECK#

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SIGNATURE

RS-F042UPR2 (12-20)

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3818979

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a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of 1

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Elk Street Commerce Park, LLC 503 Elk Street, Buffalo, NY 14210 f. Phone:	Elk Street Commerce Park, LLC 4 Centre Drive, Orchard Park, NY 14127 g. Phone:
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

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A. 42152416596	10/30/2027	Soil	1	T	12yds	
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p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Andrew Janik on behalf of ESCP	on behalf of ESCP	12/4/24

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Swan Trucking West Truck # 113

b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Joe Hansen		12/4/24

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Allied Waste Niagara Falls Landfill, LLC 5600 Niagara Falls Blvd, Niagara Falls NY 716-285-3344 b.		

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		12/04/24

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a. Operator's Name and Address:	c. Responsible Agency Name and Address:
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APPENDIX 4

Analytical Laboratory Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andy Janik
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Generated 7/10/2024 1:39:21 PM

JOB DESCRIPTION

(ESCP) Elk St Job# 2231211

JOB NUMBER

480-221212-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
7/10/2024 1:39:21 PM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

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Definitions/Glossary

Client: LaBella Associates DPC
Job ID: 480-221212-1
Project/Site: (ESCP) Elk St Job# 2231211

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-221212-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 6/27/2024 2:00 PM. Unless otherwise noted below, the sample arrived in good condition. The temperature of the cooler at receipt time was 26.1°C.

GC/MS VOA
Method 8260C - TCLP: The following samples were diluted due to the nature of the TCLP matrix: WC-1 (480-221212-1) and (LB 480-717319/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270D - TCLP: The continuing calibration verification (CCV) analyzed in batch 480-717750 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D - TCLP: The continuing calibration verification (CCV) associated with batch 480-717750 recovered above the upper control limit for Hexachlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: WC-1 (480-221212-1).

Method 8270D - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-717317 and 480-717519 and analytical batch 480-717750 recovered outside control limits for the following analytes: Hexachlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

Client Sample ID: WC-1

Lab Sample ID: 480-221212-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012	J B	0.015	0.0056	mg/L	1		6010D	TCLP
Barium	0.72	J	1.0	0.10	mg/L	1		6010D	TCLP
Cadmium	0.0031		0.0020	0.00050	mg/L	1		6010D	TCLP
Lead	0.076		0.020	0.0030	mg/L	1		6010D	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-1

Date Collected: 06/27/24 09:00
Date Received: 06/27/24 14:00

Lab Sample ID: 480-221212-1

Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			07/03/24 14:38	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			07/03/24 14:38	10
Benzene	ND		0.010	0.0041	mg/L			07/03/24 14:38	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			07/03/24 14:38	10
Chlorobenzene	ND		0.010	0.0075	mg/L			07/03/24 14:38	10
Chloroform	ND		0.010	0.0034	mg/L			07/03/24 14:38	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			07/03/24 14:38	10
Trichloroethene	ND		0.010	0.0046	mg/L			07/03/24 14:38	10
Vinyl chloride	ND		0.010	0.0090	mg/L			07/03/24 14:38	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			07/03/24 14:38	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - TCLP

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*07/03/24 14:38*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*07/03/24 14:38*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/03/24 14:38*	*10*
Dibromofluoromethane (Surr)	*92*		*75 - 123*		*07/03/24 14:38*	*10*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		07/03/24 13:20	07/09/24 04:04	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		07/03/24 13:20	07/09/24 04:04	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		07/03/24 13:20	07/09/24 04:04	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		07/03/24 13:20	07/09/24 04:04	1
2-Methylphenol	ND		0.020	0.0016	mg/L		07/03/24 13:20	07/09/24 04:04	1
3-Methylphenol	ND		0.040	0.0016	mg/L		07/03/24 13:20	07/09/24 04:04	1
4-Methylphenol	ND		0.040	0.0014	mg/L		07/03/24 13:20	07/09/24 04:04	1
Hexachlorobenzene	ND	*+	0.020	0.0020	mg/L		07/03/24 13:20	07/09/24 04:04	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		07/03/24 13:20	07/09/24 04:04	1
Hexachloroethane	ND		0.020	0.0023	mg/L		07/03/24 13:20	07/09/24 04:04	1
Nitrobenzene	ND		0.020	0.0011	mg/L		07/03/24 13:20	07/09/24 04:04	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		07/03/24 13:20	07/09/24 04:04	1
Pyridine	ND		0.10	0.0016	mg/L		07/03/24 13:20	07/09/24 04:04	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*120*		*25 - 144*	*07/03/24 13:20*	*07/09/24 04:04*	*1*
2-Fluorobiphenyl (Surr)	*91*		*53 - 126*	*07/03/24 13:20*	*07/09/24 04:04*	*1*
2-Fluorophenol (Surr)	*52*		*24 - 120*	*07/03/24 13:20*	*07/09/24 04:04*	*1*
Nitrobenzene-d5 (Surr)	*86*		*29 - 129*	*07/03/24 13:20*	*07/09/24 04:04*	*1*
p-Terphenyl-d14 (Surr)	*97*		*33 - 132*	*07/03/24 13:20*	*07/09/24 04:04*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*07/03/24 13:20*	*07/09/24 04:04*	*1*

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J B**	0.015	0.0056	mg/L		07/03/24 09:20	07/03/24 17:48	1
Barium	**0.72**	**J**	1.0	0.10	mg/L		07/03/24 09:20	07/03/24 17:48	1
Cadmium	**0.0031**		0.0020	0.00050	mg/L		07/03/24 09:20	07/03/24 17:48	1
Chromium	ND		0.020	0.010	mg/L		07/03/24 09:20	07/03/24 17:48	1
Lead	**0.076**		0.020	0.0030	mg/L		07/03/24 09:20	07/05/24 12:03	1

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

Client Sample ID: WC-1
Date Collected: 06/27/24 09:00
Date Received: 06/27/24 14:00

Lab Sample ID: 480-221212-1
Matrix: Solid

Method: SW846 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		07/03/24 09:20	07/03/24 17:48	1
Silver	ND		0.0060	0.0017	mg/L		07/03/24 09:20	07/03/24 17:48	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		07/03/24 09:21	07/03/24 13:35	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
LCS 480-717460/6	Lab Control Sample	97	96	97	94
MB 480-717460/9	Method Blank	102	97	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-221212-1	WC-1	107	94	98	92
LB 480-717319/1-A	Method Blank	91	88	91	83

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
LCS 480-717519/2-A	Lab Control Sample	136	105	63	98	113	46
LCSD 480-717519/3-A	Lab Control Sample Dup	130	102	56	94	108	43
MB 480-717519/1-A	Method Blank	112	95	57	93	103	38

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(33-132)	(10-120)
480-221212-1	WC-1	120	91	52	86	97	35
LB 480-717317/1-F	Method Blank	127	99	55	96	110	39

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-717460/9
Matrix: Solid
Analysis Batch: 717460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			07/03/24 12:03	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			07/03/24 12:03	1
Benzene	ND		0.0010	0.00041	mg/L			07/03/24 12:03	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			07/03/24 12:03	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			07/03/24 12:03	1
Chloroform	ND		0.0010	0.00034	mg/L			07/03/24 12:03	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			07/03/24 12:03	1
Trichloroethene	ND		0.0010	0.00046	mg/L			07/03/24 12:03	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			07/03/24 12:03	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			07/03/24 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*07/03/24 12:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*07/03/24 12:03*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/03/24 12:03*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*07/03/24 12:03*	*1*

Lab Sample ID: LCS 480-717460/6
Matrix: Solid
Analysis Batch: 717460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	0.0250	0.0229		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.146		mg/L		117	57 - 140
Benzene	0.0250	0.0244		mg/L		98	71 - 124
Carbon tetrachloride	0.0250	0.0248		mg/L		99	72 - 134
Chlorobenzene	0.0250	0.0241		mg/L		96	80 - 120
Chloroform	0.0250	0.0217		mg/L		87	73 - 127
Tetrachloroethene	0.0250	0.0263		mg/L		105	74 - 122
Trichloroethene	0.0250	0.0258		mg/L		103	74 - 123
Vinyl chloride	0.0250	0.0238		mg/L		95	65 - 133
1,1-Dichloroethene	0.0250	0.0252		mg/L		101	66 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

Lab Sample ID: LB 480-717319/1-A
Matrix: Solid
Analysis Batch: 717460

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			07/03/24 13:04	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			07/03/24 13:04	10
Benzene	ND		0.010	0.0041	mg/L			07/03/24 13:04	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			07/03/24 13:04	10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-717319/1-A
Matrix: Solid
Analysis Batch: 717460

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.010	0.0075	mg/L			07/03/24 13:04	10
Chloroform	ND		0.010	0.0034	mg/L			07/03/24 13:04	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			07/03/24 13:04	10
Trichloroethene	ND		0.010	0.0046	mg/L			07/03/24 13:04	10
Vinyl chloride	ND		0.010	0.0090	mg/L			07/03/24 13:04	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			07/03/24 13:04	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*07/03/24 13:04*	*10*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*07/03/24 13:04*	*10*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/03/24 13:04*	*10*
Dibromofluoromethane (Surr)	*83*		*75 - 123*		*07/03/24 13:04*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-717519/1-A
Matrix: Solid
Analysis Batch: 717750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00045	mg/L		07/03/24 13:20	07/09/24 02:14	1
2,4-Dinitrotoluene	ND		0.0050	0.00043	mg/L		07/03/24 13:20	07/09/24 02:14	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		07/03/24 13:20	07/09/24 02:14	1
2,4,6-Trichlorophenol	ND		0.0050	0.00060	mg/L		07/03/24 13:20	07/09/24 02:14	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		07/03/24 13:20	07/09/24 02:14	1
3-Methylphenol	ND		0.010	0.00040	mg/L		07/03/24 13:20	07/09/24 02:14	1
4-Methylphenol	ND		0.010	0.00035	mg/L		07/03/24 13:20	07/09/24 02:14	1
Hexachlorobenzene	ND		0.0050	0.00050	mg/L		07/03/24 13:20	07/09/24 02:14	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		07/03/24 13:20	07/09/24 02:14	1
Hexachloroethane	ND		0.0050	0.00058	mg/L		07/03/24 13:20	07/09/24 02:14	1
Nitrobenzene	ND		0.0050	0.00028	mg/L		07/03/24 13:20	07/09/24 02:14	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		07/03/24 13:20	07/09/24 02:14	1
Pyridine	ND		0.025	0.00040	mg/L		07/03/24 13:20	07/09/24 02:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*112*		*25 - 144*	*07/03/24 13:20*	*07/09/24 02:14*	*1*
2-Fluorobiphenyl (Surr)	*95*		*53 - 126*	*07/03/24 13:20*	*07/09/24 02:14*	*1*
2-Fluorophenol (Surr)	*57*		*24 - 120*	*07/03/24 13:20*	*07/09/24 02:14*	*1*
Nitrobenzene-d5 (Surr)	*93*		*29 - 129*	*07/03/24 13:20*	*07/09/24 02:14*	*1*
p-Terphenyl-d14 (Surr)	*103*		*33 - 132*	*07/03/24 13:20*	*07/09/24 02:14*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*07/03/24 13:20*	*07/09/24 02:14*	*1*

Lab Sample ID: LCS 480-717519/2-A
Matrix: Solid
Analysis Batch: 717750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.0400	0.0290		mg/L		72	42 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-717519/2-A
Matrix: Solid
Analysis Batch: 717750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717519

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-Dinitrotoluene			0.0400	0.0433		mg/L		108	69 - 120		
2,4,5-Trichlorophenol			0.0400	0.0431		mg/L		108	65 - 126		
2,4,6-Trichlorophenol			0.0400	0.0442		mg/L		110	64 - 120		
2-Methylphenol			0.0400	0.0358		mg/L		89	39 - 120		
3-Methylphenol			0.0400	0.0339		mg/L		85	39 - 120		
4-Methylphenol			0.0400	0.0339		mg/L		85	29 - 131		
Hexachlorobenzene			0.0400	0.0523	*+	mg/L		131	61 - 120		
Hexachlorobutadiene			0.0400	0.0320		mg/L		80	35 - 120		
Hexachloroethane			0.0400	0.0269		mg/L		67	33 - 120		
Nitrobenzene			0.0400	0.0422		mg/L		105	53 - 123		
Pentachlorophenol			0.0800	0.0699		mg/L		87	10 - 136		
Pyridine			0.0800	0.0177	J	mg/L		22	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*136*		*25 - 144*
2-Fluorobiphenyl (Surr)	*105*		*53 - 126*
2-Fluorophenol (Surr)	*63*		*24 - 120*
Nitrobenzene-d5 (Surr)	*98*		*29 - 129*
p-Terphenyl-d14 (Surr)	*113*		*33 - 132*
Phenol-d5 (Surr)	*46*		*10 - 120*

Lab Sample ID: LCSD 480-717519/3-A
Matrix: Solid
Analysis Batch: 717750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 717519

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			0.0400	0.0278		mg/L		69	42 - 120	4	36
2,4-Dinitrotoluene			0.0400	0.0419		mg/L		105	69 - 120	3	20
2,4,5-Trichlorophenol			0.0400	0.0406		mg/L		101	65 - 126	6	18
2,4,6-Trichlorophenol			0.0400	0.0410		mg/L		102	64 - 120	8	19
2-Methylphenol			0.0400	0.0333		mg/L		83	39 - 120	7	27
3-Methylphenol			0.0400	0.0313		mg/L		78	39 - 120	8	30
4-Methylphenol			0.0400	0.0313		mg/L		78	29 - 131	8	24
Hexachlorobenzene			0.0400	0.0513	*+	mg/L		128	61 - 120	2	15
Hexachlorobutadiene			0.0400	0.0297		mg/L		74	35 - 120	7	44
Hexachloroethane			0.0400	0.0249		mg/L		62	33 - 120	8	46
Nitrobenzene			0.0400	0.0393		mg/L		98	53 - 123	7	24
Pentachlorophenol			0.0800	0.0665		mg/L		83	10 - 136	5	37
Pyridine			0.0800	0.0175	J	mg/L		22	10 - 120	1	49

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*130*		*25 - 144*
2-Fluorobiphenyl (Surr)	*102*		*53 - 126*
2-Fluorophenol (Surr)	*56*		*24 - 120*
Nitrobenzene-d5 (Surr)	*94*		*29 - 129*
p-Terphenyl-d14 (Surr)	*108*		*33 - 132*
Phenol-d5 (Surr)	*43*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-717317/1-F
Matrix: Solid
Analysis Batch: 717750

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 717519

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		07/03/24 13:20	07/09/24 03:36	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		07/03/24 13:20	07/09/24 03:36	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		07/03/24 13:20	07/09/24 03:36	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		07/03/24 13:20	07/09/24 03:36	1
2-Methylphenol	ND		0.020	0.0016	mg/L		07/03/24 13:20	07/09/24 03:36	1
3-Methylphenol	ND		0.040	0.0016	mg/L		07/03/24 13:20	07/09/24 03:36	1
4-Methylphenol	ND		0.040	0.0014	mg/L		07/03/24 13:20	07/09/24 03:36	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		07/03/24 13:20	07/09/24 03:36	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		07/03/24 13:20	07/09/24 03:36	1
Hexachloroethane	ND		0.020	0.0023	mg/L		07/03/24 13:20	07/09/24 03:36	1
Nitrobenzene	ND		0.020	0.0011	mg/L		07/03/24 13:20	07/09/24 03:36	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		07/03/24 13:20	07/09/24 03:36	1
Pyridine	ND		0.10	0.0016	mg/L		07/03/24 13:20	07/09/24 03:36	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*127*		*25 - 144*	*07/03/24 13:20*	*07/09/24 03:36*	*1*
2-Fluorobiphenyl (Surr)	*99*		*53 - 126*	*07/03/24 13:20*	*07/09/24 03:36*	*1*
2-Fluorophenol (Surr)	*55*		*24 - 120*	*07/03/24 13:20*	*07/09/24 03:36*	*1*
Nitrobenzene-d5 (Surr)	*96*		*29 - 129*	*07/03/24 13:20*	*07/09/24 03:36*	*1*
p-Terphenyl-d14 (Surr)	*110*		*33 - 132*	*07/03/24 13:20*	*07/09/24 03:36*	*1*
Phenol-d5 (Surr)	*39*		*10 - 120*	*07/03/24 13:20*	*07/09/24 03:36*	*1*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-717471/2-A
Matrix: Solid
Analysis Batch: 717581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		07/03/24 09:20	07/03/24 17:44	1
Barium	ND		1.0	0.10	mg/L		07/03/24 09:20	07/03/24 17:44	1
Cadmium	ND		0.0020	0.00050	mg/L		07/03/24 09:20	07/03/24 17:44	1
Chromium	ND		0.020	0.010	mg/L		07/03/24 09:20	07/03/24 17:44	1
Lead	ND		0.020	0.0030	mg/L		07/03/24 09:20	07/03/24 17:44	1
Selenium	ND		0.025	0.0087	mg/L		07/03/24 09:20	07/03/24 17:44	1
Silver	ND		0.0060	0.0017	mg/L		07/03/24 09:20	07/03/24 17:44	1

Lab Sample ID: LCS 480-717471/3-A
Matrix: Solid
Analysis Batch: 717581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.944		mg/L		94	80 - 120
Barium	1.00	0.940	J	mg/L		94	80 - 120
Cadmium	0.500	0.487		mg/L		97	80 - 120
Chromium	0.500	0.462		mg/L		92	80 - 120
Lead	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	0.951		mg/L		95	80 - 120
Silver	0.0500	0.0492		mg/L		98	80 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 480-717317/1-B
Matrix: Solid
Analysis Batch: 717581

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 717471

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00711	J	0.015	0.0056	mg/L		07/03/24 09:20	07/03/24 17:42	1
Barium	ND		1.0	0.10	mg/L		07/03/24 09:20	07/03/24 17:42	1
Cadmium	ND		0.0020	0.00050	mg/L		07/03/24 09:20	07/03/24 17:42	1
Chromium	ND		0.020	0.010	mg/L		07/03/24 09:20	07/03/24 17:42	1
Selenium	ND		0.025	0.0087	mg/L		07/03/24 09:20	07/03/24 17:42	1
Silver	ND		0.0060	0.0017	mg/L		07/03/24 09:20	07/03/24 17:42	1

Lab Sample ID: LB 480-717317/1-B
Matrix: Solid
Analysis Batch: 717647

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 717471

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.020	0.0030	mg/L		07/03/24 09:20	07/05/24 12:01	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-717472/2-A
Matrix: Solid
Analysis Batch: 717524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		07/03/24 09:21	07/03/24 13:29	1

Lab Sample ID: LCS 480-717472/3-A
Matrix: Solid
Analysis Batch: 717524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717472

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00670	0.00743		mg/L		111	80 - 120		

Lab Sample ID: LB 480-717317/1-C
Matrix: Solid
Analysis Batch: 717524

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 717472

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		07/03/24 09:21	07/03/24 13:28	1

QC Association Summary

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

GC/MS VOA

Leach Batch: 717319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	1311	
LB 480-717319/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 717460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	8260C	717319
LB 480-717319/1-A	Method Blank	TCLP	Solid	8260C	717319
MB 480-717460/9	Method Blank	Total/NA	Solid	8260C	
LCS 480-717460/6	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 717317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	1311	
LB 480-717317/1-F	Method Blank	TCLP	Solid	1311	

Prep Batch: 717519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	3510C	717317
LB 480-717317/1-F	Method Blank	TCLP	Solid	3510C	717317
MB 480-717519/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-717519/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-717519/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 717750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	8270D	717519
LB 480-717317/1-F	Method Blank	TCLP	Solid	8270D	717519
MB 480-717519/1-A	Method Blank	Total/NA	Solid	8270D	717519
LCS 480-717519/2-A	Lab Control Sample	Total/NA	Solid	8270D	717519
LCSD 480-717519/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	717519

Metals

Leach Batch: 717317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	1311	
LB 480-717317/1-B	Method Blank	TCLP	Solid	1311	
LB 480-717317/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 717471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	3010A	717317
LB 480-717317/1-B	Method Blank	TCLP	Solid	3010A	717317
MB 480-717471/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 480-717471/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 717472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	7470A	717317
LB 480-717317/1-C	Method Blank	TCLP	Solid	7470A	717317

Metals (Continued)

Prep Batch: 717472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-717472/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 480-717472/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 717524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	7470A	717472
LB 480-717317/1-C	Method Blank	TCLP	Solid	7470A	717472
MB 480-717472/2-A	Method Blank	Total/NA	Solid	7470A	717472
LCS 480-717472/3-A	Lab Control Sample	Total/NA	Solid	7470A	717472

Analysis Batch: 717581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	6010D	717471
LB 480-717317/1-B	Method Blank	TCLP	Solid	6010D	717471
MB 480-717471/2-A	Method Blank	Total/NA	Solid	6010D	717471
LCS 480-717471/3-A	Lab Control Sample	Total/NA	Solid	6010D	717471

Analysis Batch: 717647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	TCLP	Solid	6010D	717471
LB 480-717317/1-B	Method Blank	TCLP	Solid	6010D	717471

General Chemistry

Analysis Batch: 717158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221212-1	WC-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: LaBella Associates DPC
Job ID: 480-221212-1
Project/Site: (ESCP) Elk St Job# 2231211

Client Sample ID: WC-1
Lab Sample ID: 480-221212-1
Date Collected: 06/27/24 09:00
Matrix: Solid
Date Received: 06/27/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			717319	SMP	EET BUF	07/02/24 06:35 - 07/03/24 09:01 [1]
TCLP	Analysis	8260C		10	717460	ZN	EET BUF	07/03/24 14:38
TCLP	Leach	1311			717317	SMP	EET BUF	07/02/24 06:28 - 07/03/24 08:34 [1]
TCLP	Prep	3510C			717519	LSC	EET BUF	07/03/24 13:20
TCLP	Analysis	8270D		1	717750	JMM	EET BUF	07/09/24 04:04
TCLP	Leach	1311			717317	SMP	EET BUF	07/02/24 06:28 - 07/03/24 08:34 [1]
TCLP	Prep	3010A			717471	EMO	EET BUF	07/03/24 09:20
TCLP	Analysis	6010D		1	717581	BMB	EET BUF	07/03/24 17:48
TCLP	Leach	1311			717317	SMP	EET BUF	07/02/24 06:28 - 07/03/24 08:34 [1]
TCLP	Prep	3010A			717471	EMO	EET BUF	07/03/24 09:20
TCLP	Analysis	6010D		1	717647	BMB	EET BUF	07/05/24 12:03
TCLP	Leach	1311			717317	SMP	EET BUF	07/02/24 06:28 - 07/03/24 08:34 [1]
TCLP	Prep	7470A			717472	ESB	EET BUF	07/03/24 09:21
TCLP	Analysis	7470A		1	717524	ESB	EET BUF	07/03/24 13:35
Total/NA	Analysis	Moisture		1	717158	EMD	EET BUF	06/28/24 14:54

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Job ID: 480-221212-1
Project/Site: (ESCP) Elk St Job# 2231211

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
1311	TCLP Extraction	SW846	EET BUF
3010A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: LaBella Associates DPC
Project/Site: (ESCP) Elk St Job# 2231211

Job ID: 480-221212-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-221212-1	WC-1	Solid	06/27/24 09:00	06/27/24 14:00

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Andrew Janik	Site Contact: Andrew Janik	Date: 6/27/2024	COC No:
LaBella	Tel:716-345-6709	Lab Contact: Fisher, Brian J	Carrier: LaBella	1 of 1 COCs
300 Pearl Street, Suite 130	Analysis Turnaround Time			Sampler: Chris Finn
Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
716-551-6281	TAT if different from Below			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: ESCP	☐ 1 week			
Site: ESCP	☐ 2 days			Job / SDG No.:
P O # 2231211	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCLP VOC	TCLP SVOC	TCLP Metals	Sample Specific Notes:
WC-1	6/27/24	9:00	C	S	2			x	x	x	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Email report to ajanik@labellapc.com

2611 #1 NO ICE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: LaBella	Date/Time: 6/27 1406	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 6/27/24 1406

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

7/10/2024

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-221212-1

Login Number: 221212
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Labella
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

REPUBLIC SERVICES

AGENT SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: _____

INVOICE TO (AGENT BILLING INFORMATION)	
AGENT NAME (the "Agent")	LaBella Associates, DPC
ATTN.	Gregory Czworka 585-402-7015
ADDRESS	300 State Street Suite 201
	aplabellapc.com
CITY STATE	Rochester, NY
ZIP CODE	14614

LANDFILL FACILITY ("Company")			
LEGAL ENTITY NAME	Allied Waste Niagara Falls Landfill, LLC		
ADDRESS	5600 Niagara Falls Blvd.		Niagara Falls, NY 14304
TEL. NO.	716 371-4217	FAX NO.	
AUTHORIZED BY:		TITLE	
CONTACT	Jack Palermo	TITLE	Special Waste Executive

Project: Elk Street Commerce Park **County and State of Origin:** Erie, NY

Generator Address: 503 Elk St. Buffalo , NY

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to accept, at the Facility designated above, Acceptable Waste (as defined in Section 6).

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
Contained in Soil	landfill	$38.00/ton	$19.71/load	N/A

Additional Information: a 3 min load charge

Cannot Exceed Daily Volume of _____ Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) _____

2) _____

C. Taxes, Fees & Other Charges. Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement.** This Agreement is effective for 12 months beginning on Oct.,31, 2024, _____ (the "Initial Term") and shall automatically renew for successive _____ month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Agent must send to multiple parties under any Applicable Laws, Agent grants to Company the right to bid and/or compete for any future services sought by Agent, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, AGENT IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Andy Janik / LaBella / PM

NAME AND TITLE (PLEASE PRINT)

DATE: 11/1/24

COMPANY Jack Palermo

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Jack Palermo

NAME AND TITLE (PLEASE PRINT)

DATE: 11/4/2024

4. **The Agreement.** This agreement of the parties (this "Agreement") for the transportation and disposal of Acceptable Waste shall consist of this Agreement, riders to this Agreement (if any), any Special Waste profile(s) (including any approved changes and re-certifications) which Agent shall ensure has the identical Special Waste profile number as this Agreement (a "Special Waste Profile"), manifests, any other documentation that Agent is required to submit to Company in connection with the transportation and disposal of Acceptable Waste, and any permits and approvals that may be applicable to the transportation and disposal of such Acceptable Waste (collectively, the "Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Agent represents, warrants and covenants that all of Agent's waste transported to and delivered for disposal at the Facility will be Acceptable Waste and will not contain any "Unacceptable Waste," which for purposes of this Agreement means any: (a) hazardous materials, substances or wastes; radioactive materials or substances; biomedical, infectious, biohazardous toxic waste or substances; or any other pollutant, contaminant, or substance that is hazardous or threatening to human health, safety or the environment, in each as determined by Company or as defined or identified by applicable federal, state, provincial, tribal and local laws, permits, licenses, regulations, rules and orders regarding the same (collectively "Applicable Laws"); or (b) waste that is not acceptable under Applicable Laws for transportation to, storage at, disposal by or processing at the applicable Facility. Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste comply with all Applicable Laws.

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for transportation to and disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for transportation to and disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such waste to Company, Agent has provided appropriate Acceptable Waste Documentation for such Acceptable Waste and Company has approved disposal of such Acceptable Waste in writing and subject to the limitations and conditions contained in Company's written notice of approval. Company shall acquire title to Acceptable Waste when it is loaded into Company's truck. Title to, and liability for, Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

7. **Rights of Refusal/Rejection.** The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.

8. **Limited License to Enter.** This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment.** Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Agent.

11. **Personnel Knowledge and Authority.** Agent represents, warrants and covenants that its personnel and agents have been advised by Agent of Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility.

12. **Indemnification.** Each party shall indemnify, defend and hold harmless the other party and its subsidiaries, affiliates and parent corporations, as applicable, and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or in connection with such party's breach of this Agreement or arising out of the negligence or willful misconduct by such party or such party's employees, agents, subcontractors or representatives. Agent further agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all Losses arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. The indemnification and other obligations stated in this Section 11 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages		Minimum Amounts of Insurance
Worker's Compensation		Statutory
Employer's Liability		$1,000,000
General Liability		$1,000,000 combined single limit
Automobile Liability	(where Agent hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located.
Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before
Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial
General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company

14. **Failure to Perform.** Except for Agent's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice; provided, however, that Agent's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services.** Agent may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste or impose any obligations on Company to transport or dispose of waste, other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** Agent has a continuing obligation to inform Company of any new information, or information not previously provided to Company by Agent, which may affect the acceptability of the waste by Company. Further, Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of this Agreement and any Acceptable Waste Documentation including without limitation to the following: (a) providing new, updated Special Waste Profiles on the waste offered for transportation and disposal, (b) providing appropriate certification that the waste being offered for transportation and disposal is accurately reflected by the appropriate Special Waste Profile and (c) re-sampling the waste at Agent's sole expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

AGENT: _____ COMPANY: LaBelle

APPENDIX 5

CAMP and Daily Inspection

DAILY INSPECTION REPORT

JOB TITLE: Elk Street Solar CAMP Monitoring
DATE: 3/18/2024
LaBella JOB NO.: #2211232
Day of Week: S **M** T W T F S
CLIENT: Elk Street Solar
I.R. No.: ----------
CONTRACTOR:
Sheet No. 1 **of** 1

Chris Finn - LaBella

PHOTOS TAKEN: YES
Weather:
Sunny **AM** Overcast **PM**
Temperature:
28 **AM** 32 **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

06:30 – LaBella arrives on-site.
07:00 – Upwind and downwind CAMP meter set up and started
0**7:15** – Milestone on-site, walking work area.
7:30 – Milestone warming up machines to begin road work.
08:00 – Milestone began grading work in the areas along the north and south sides of the treatment plant access road. A skid steer was used to remove gravel from along the south side of the treatment plant road. Gravel removal along the north side of the treatment plant road is being removed via a front loader. Gravel is being staged in piles.
10:30 - Dump trucks arrive on-site for sub-base delivery.
11:15 – Milestone began spreading sub-base and compacting via a roller.
12:00 – Lunch
12:30 – Milestone began working on laying a sub-base and compacting the sub-base via a roller.
15:30 - Milestone work completed for the day. Grading for access road completed.
15:45 – CAMP equipment shut down and put away.
16:15 – LaBella off-site

Morning Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N Lon: 78.74°W Elev: 709ft.



Partly Cloudy
28°F
-2°C

Humidity	66%
Wind Speed	W 16 G 23 mph
Barometer	29.79 in (1009.5 mb)
Dewpoint	18°F (-8°C)
Visibility	10.00 mi
Wind Chill	16°F (-9°C)
Last update	18 Mar 7:54 am EDT

Afternoon Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N Lon: 78.74°W Elev: 709ft.



Light Snow and Breezy
32°F
0°C

Humidity	73%
Wind Speed	SW 21 G 30 mph
Barometer	29.79 in (1009.5 mb)
Dewpoint	24°F (-4°C)
Visibility	7.00 mi
Wind Chill	20°F (-7°C)
Last update	18 Mar 1:54 pm EDT





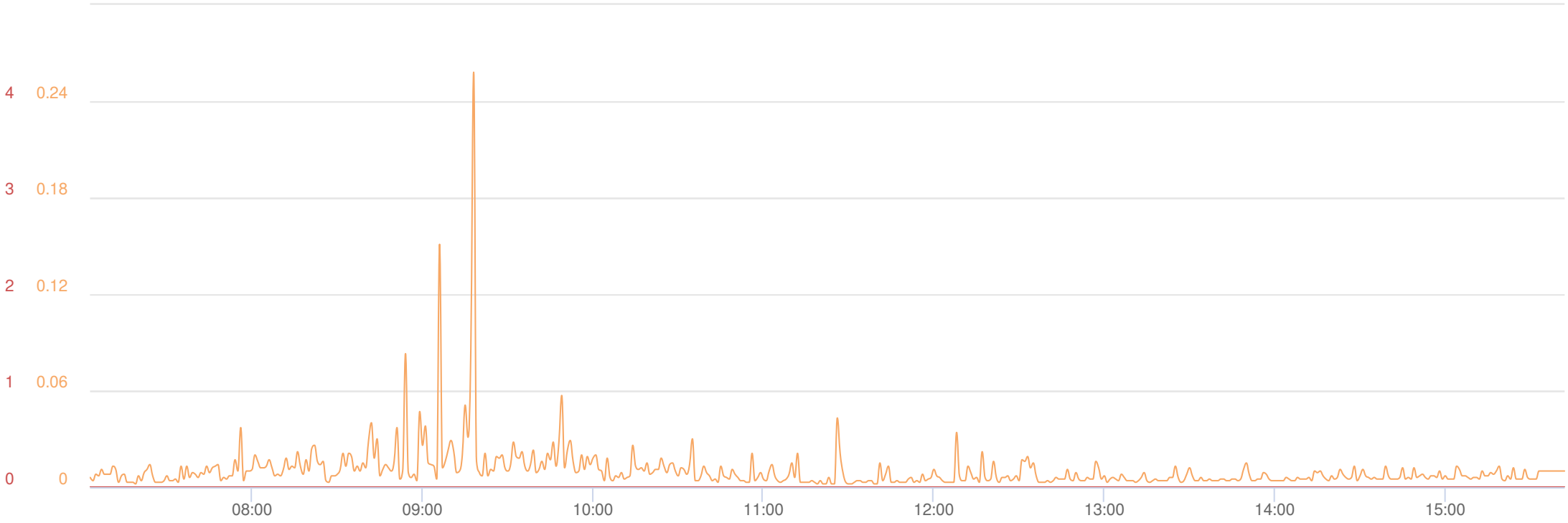






LaBella
Powered by partnership.

Mon, 18th of Mar 2024, 0:00:00 – 15:52:08
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.002	0.01	0.258

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

Name	LaBella #1 (FA05345)
S/N	2B004188
Description	FA05345
Location	503 Elk St, Buffalo, NY 14210, USA

© Netronix 2024

Upwind CAMP Data March 18, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/18/2024 7:03	0	0.006
3/18/2024 7:04	0	0.004
3/18/2024 7:05	0	0.008
3/18/2024 7:06	0	0.007
3/18/2024 7:07	0	0.011
3/18/2024 7:08	0	0.008
3/18/2024 7:09	0	0.008
3/18/2024 7:10	0	0.008
3/18/2024 7:11	0	0.013
3/18/2024 7:12	0	0.011
3/18/2024 7:13	0	0.003
3/18/2024 7:14	0	0.007
3/18/2024 7:15	0	0.008
3/18/2024 7:16	0	0.003
3/18/2024 7:17	0	0.003
3/18/2024 7:18	0	0.003
3/18/2024 7:19	0	0.002
3/18/2024 7:20	0	0.007
3/18/2024 7:21	0	0.004
3/18/2024 7:22	0	0.009
3/18/2024 7:23	0	0.011
3/18/2024 7:24	0	0.014
3/18/2024 7:25	0	0.007
3/18/2024 7:26	0	0.003
3/18/2024 7:27	0	0.003
3/18/2024 7:28	0	0.003
3/18/2024 7:29	0	0.004
3/18/2024 7:30	0	0.007
3/18/2024 7:31	0	0.004
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3/18/2024 7:33	0	0.005
3/18/2024 7:34	0	0.003
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3/18/2024 7:37	0	0.013
3/18/2024 7:38	0	0.006
3/18/2024 7:39	0	0.009
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3/18/2024 7:42	0	0.009
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3/18/2024 7:45	0	0.009
3/18/2024 7:46	0	0.012

3/18/2024 7:47	0	0.013
3/18/2024 7:48	0	0.014
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3/18/2024 7:51	0	0.005
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3/18/2024 7:53	0	0.007
3/18/2024 7:54	0	0.017
3/18/2024 7:55	0	0.01
3/18/2024 7:56	0	0.037
3/18/2024 7:57	0	0.004
3/18/2024 7:58	0	0.01
3/18/2024 7:59	0	0.01
3/18/2024 8:00	0	0.011
3/18/2024 8:01	0	0.02
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3/18/2024 8:09	0	0.008
3/18/2024 8:10	0	0.007
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3/18/2024 12:33	0	0.019
3/18/2024 12:34	0	0.012
3/18/2024 12:35	0	0.015
3/18/2024 12:36	0	0.007
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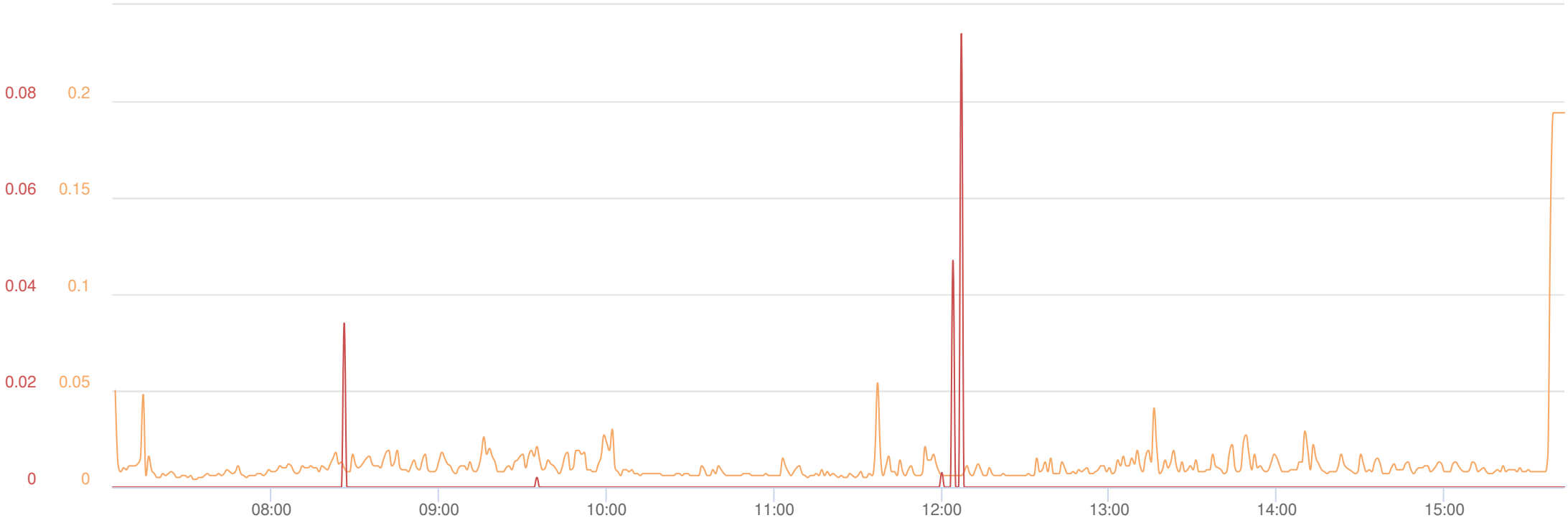
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3/18/2024 13:31	0	0.007
3/18/2024 13:32	0	0.004
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3/18/2024 15:42	0	0.01

Mon, 18th of Mar 2024, 0:00:00 – 15:51:30
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.004	0.012	0.194

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.094

Name LaBella #2 (FA05353)
S/N 2B018612
Description FA05353
Location 503 Elk St, Buffalo, NY 14210, USA

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Downwind CAMP Data March 18, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/18/2024 7:03	0	
3/18/2024 7:04	0	0.05
3/18/2024 7:05	0	0.012
3/18/2024 7:06	0	0.008
3/18/2024 7:07	0	0.01
3/18/2024 7:08	0	0.009
3/18/2024 7:09	0	0.011
3/18/2024 7:10	0	0.011
3/18/2024 7:11	0	0.011
3/18/2024 7:12	0	0.012
3/18/2024 7:13	0	0.015
3/18/2024 7:14	0	0.048
3/18/2024 7:15		0.006
3/18/2024 7:16		0.016
3/18/2024 7:17	0	0.009
3/18/2024 7:18	0	0.007
3/18/2024 7:19	0	0.005
3/18/2024 7:20	0	0.005
3/18/2024 7:21	0	0.007
3/18/2024 7:22	0	0.006
3/18/2024 7:23	0	0.007
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3/18/2024 11:24	0	0.006
3/18/2024 11:25	0	0.005
3/18/2024 11:26	0	0.005
3/18/2024 11:27	0	0.007
3/18/2024 11:28	0	0.006
3/18/2024 11:29	0	0.005
3/18/2024 11:30	0	0.006
3/18/2024 11:31	0	0.008
3/18/2024 11:32	0	0.005
3/18/2024 11:33	0	0.005
3/18/2024 11:34	0	0.007
3/18/2024 11:35	0	0.006
3/18/2024 11:36	0	0.016
3/18/2024 11:37	0	0.054
3/18/2024 11:38	0	0.018
3/18/2024 11:39	0	0.006
3/18/2024 11:40	0	0.011
3/18/2024 11:41	0	0.016

3/18/2024 11:42	0	0.008
3/18/2024 11:43	0	0.008
3/18/2024 11:44	0	0.006
3/18/2024 11:45	0	0.014
3/18/2024 11:46	0	0.008
3/18/2024 11:47	0	0.006
3/18/2024 11:48	0	0.009
3/18/2024 11:49	0	0.011
3/18/2024 11:50	0	0.007
3/18/2024 11:51	0	0.006
3/18/2024 11:52	0	0.006
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3/18/2024 12:07	0.094	0.006
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3/18/2024 12:15	0	0.006
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3/18/2024 12:29	0	0.006
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3/18/2024 12:37	0	0.013
3/18/2024 12:38	0	0.008
3/18/2024 12:39	0	0.015
3/18/2024 12:40	0	0.007
3/18/2024 12:41	0	0.007
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3/18/2024 12:43	0	0.013
3/18/2024 12:44	0	0.01
3/18/2024 12:45	0	0.007
3/18/2024 12:46	0	0.007
3/18/2024 12:47	0	0.008
3/18/2024 12:48	0	0.007
3/18/2024 12:49	0	0.009
3/18/2024 12:50	0	0.008
3/18/2024 12:51	0	0.009
3/18/2024 12:52	0	0.01
3/18/2024 12:53	0	0.007
3/18/2024 12:54	0	0.007
3/18/2024 12:55	0	0.008
3/18/2024 12:56	0	0.009
3/18/2024 12:57	0	0.011
3/18/2024 12:58	0	0.011
3/18/2024 12:59	0	0.008
3/18/2024 13:00	0	0.01
3/18/2024 13:01	0	0.007
3/18/2024 13:02	0	0.008
3/18/2024 13:03	0	0.014
3/18/2024 13:04	0	0.011
3/18/2024 13:05	0	0.016
3/18/2024 13:06	0	0.011
3/18/2024 13:07	0	0.011
3/18/2024 13:08	0	0.015
3/18/2024 13:09	0	0.012
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3/18/2024 13:11	0	0.011
3/18/2024 13:12	0	0.008
3/18/2024 13:13	0	0.016
3/18/2024 13:14	0	0.019
3/18/2024 13:15	0	0.013

3/18/2024 13:16	0	0.041
3/18/2024 13:17	0	0.02
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3/18/2024 13:19	0	0.009
3/18/2024 13:20	0	0.014
3/18/2024 13:21	0	0.01
3/18/2024 13:22	0	0.013
3/18/2024 13:23	0	0.019
3/18/2024 13:24	0	0.011
3/18/2024 13:25	0	0.008
3/18/2024 13:26	0	0.013
3/18/2024 13:27	0	0.008
3/18/2024 13:28	0	0.009
3/18/2024 13:29	0	0.011
3/18/2024 13:30	0	0.009
3/18/2024 13:31	0	0.014
3/18/2024 13:32	0	0.008
3/18/2024 13:33	0	0.008
3/18/2024 13:34	0	0.008
3/18/2024 13:35	0	0.009
3/18/2024 13:36	0	0.009
3/18/2024 13:37	0	0.017
3/18/2024 13:38	0	0.011
3/18/2024 13:39	0	0.01
3/18/2024 13:40	0	0.009
3/18/2024 13:41	0	0.007
3/18/2024 13:42	0	0.008
3/18/2024 13:43	0	0.018
3/18/2024 13:44	0	0.022
3/18/2024 13:45	0	0.01
3/18/2024 13:46	0	0.008
3/18/2024 13:47	0	0.009
3/18/2024 13:48	0	0.023
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3/18/2024 13:53	0	0.01
3/18/2024 13:54	0	0.011
3/18/2024 13:55	0	0.009
3/18/2024 13:56	0	0.008
3/18/2024 13:57	0	0.009
3/18/2024 13:58	0	0.013
3/18/2024 13:59	0	0.017
3/18/2024 14:00	0	0.015
3/18/2024 14:01	0	0.011
3/18/2024 14:02	0	0.008

3/18/2024 14:03	0	0.008
3/18/2024 14:04	0	0.008
3/18/2024 14:05	0	0.009
3/18/2024 14:06	0	0.009
3/18/2024 14:07	0	0.009
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3/18/2024 14:09	0	0.013
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3/18/2024 14:12	0	0.009
3/18/2024 14:13	0	0.022
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3/18/2024 14:15	0	0.012
3/18/2024 14:16	0	0.009
3/18/2024 14:17	0	0.008
3/18/2024 14:18	0	0.007
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3/18/2024 14:23	0	0.017
3/18/2024 14:24	0	0.012
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3/18/2024 14:27	0	0.008
3/18/2024 14:28	0	0.007
3/18/2024 14:29	0	0.008
3/18/2024 14:30	0	0.017
3/18/2024 14:31	0	0.012
3/18/2024 14:32	0	0.008
3/18/2024 14:33	0	0.009
3/18/2024 14:34	0	0.008
3/18/2024 14:35	0	0.013
3/18/2024 14:36	0	0.015
3/18/2024 14:37	0	0.012
3/18/2024 14:38	0	0.007
3/18/2024 14:39	0	0.007
3/18/2024 14:40	0	0.007
3/18/2024 14:41	0	0.01
3/18/2024 14:42	0	0.012
3/18/2024 14:43	0	0.009
3/18/2024 14:44	0	0.009
3/18/2024 14:45	0	0.009
3/18/2024 14:46	0	0.012
3/18/2024 14:47	0	0.013
3/18/2024 14:48	0	0.009
3/18/2024 14:49	0	0.007

3/18/2024 14:50	0	0.009
3/18/2024 14:51	0	0.01
3/18/2024 14:52	0	0.01
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3/18/2024 14:55	0	0.008
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3/18/2024 14:57	0	0.011
3/18/2024 14:58	0	0.013
3/18/2024 14:59	0	0.012
3/18/2024 15:00	0	0.008
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3/18/2024 15:03	0	0.012
3/18/2024 15:04	0	0.013
3/18/2024 15:05	0	0.011
3/18/2024 15:06	0	0.009
3/18/2024 15:07	0	0.008
3/18/2024 15:08	0	0.008
3/18/2024 15:09	0	0.009
3/18/2024 15:10	0	0.013
3/18/2024 15:11	0	0.012
3/18/2024 15:12	0	0.008
3/18/2024 15:13	0	0.009
3/18/2024 15:14	0	0.01
3/18/2024 15:15	0	0.008
3/18/2024 15:16	0	0.007
3/18/2024 15:17	0	0.007
3/18/2024 15:18	0	0.008
3/18/2024 15:19	0	0.009
3/18/2024 15:20	0	0.008
3/18/2024 15:21	0	0.011
3/18/2024 15:22	0	0.008
3/18/2024 15:23	0	0.009
3/18/2024 15:24	0	0.009
3/18/2024 15:25	0	0.009
3/18/2024 15:26	0	0.008
3/18/2024 15:27	0	0.01
3/18/2024 15:28	0	0.008
3/18/2024 15:29	0	0.008
3/18/2024 15:30	0	0.009
3/18/2024 15:31	0	0.008
3/18/2024 15:32	0	0.008
3/18/2024 15:33	0	0.008
3/18/2024 15:34	0	0.008
3/18/2024 15:35	0	0.008
3/18/2024 15:36	0	0.008

3/18/2024 15:37	0	0.016
3/18/2024 15:38	0	0.143
3/18/2024 15:39	0	0.194
3/18/2024 15:40	0	0.194
3/18/2024 15:41	0	0.194
3/18/2024 15:42	0	0.194
3/18/2024 15:43	0	0.194

LaBella
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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 03/18/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	3/18/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar CAMP Monitoring	**DATE:**	3/19/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	**S M T W T F S**
CLIENT:	Elk Street Solar	**I.R. No.:**	----------
CONTRACTOR:	Milestone	**Sheet No.**	1 **of** 1
	Chris Finn - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Wind **AM**	Overcast **PM**
		Temperature:	
		29 **AM**	32 **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

06:50 – LaBella and Milestone arrive on-site.

07:10 – CAMP meters set up and started.

07:30 – Excavation work began in the small culvert. Approximately 8 inches of soil will be removed from the culvert for the future installation of drainage pipes. The excavation is approximately 90 feet in length.

10:00 – Excavation work completed.

10:15 – Two dump trucks with imported material arrive on site. Stone was stockpiled on the eastern side of the site.

10:30 – Two additional dump trucks with imported material arrive on site. The material was stockpiled on the eastern side of the site.

10:45 – CAMP meters turned off and taken down for the day. Milestone work completed for the day awaiting pending import material approval from the NYSDEC. Milestone off-site

11:30 – LaBella off-site

LaBella
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Morning Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow
29°F
-2°C

Humidity	78%
Wind Speed	W 12 G 22 mph
Barometer	29.78 in (1009.3 mb)
Dewpoint	23°F (-5°C)
Visibility	7.00 mi
Wind Chill	19°F (-7°C)
Last update	19 Mar 6:54 am EDT

Afternoon Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow
32°F
0°C

Humidity	79%
Wind Speed	W 14 G 26 mph
Barometer	29.72 in (1007.2 mb)
Dewpoint	26°F (-3°C)
Visibility	4.00 mi
Wind Chill	22°F (-6°C)
Last update	19 Mar 10:54 am EDT





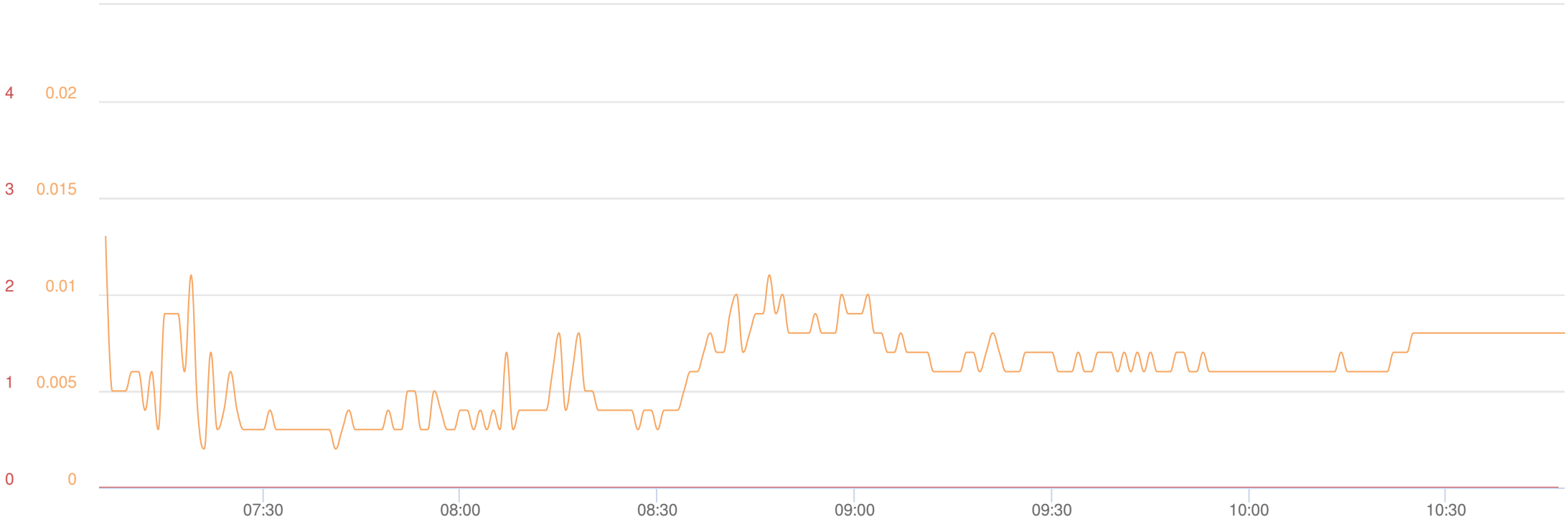






LaBella
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Tue, 19th of Mar 2024, 0:00:00 – 11:04:59
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.002	0.006	0.013

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

Name	LaBella #1 (FA05345)
S/N	2B004188
Description	FA05345
Location	503 Elk St, Buffalo, NY 14210, USA

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Upwind CAMP Data March 19, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/19/2024 7:05	0	
3/19/2024 7:06	0	0.013
3/19/2024 7:07	0	0.005
3/19/2024 7:08	0	0.005
3/19/2024 7:09	0	0.005
3/19/2024 7:10	0	0.006
3/19/2024 7:11	0	0.006
3/19/2024 7:12	0	0.004
3/19/2024 7:13	0	0.006
3/19/2024 7:14	0	0.003
3/19/2024 7:15	0	0.009
3/19/2024 7:16	0	0.009
3/19/2024 7:17	0	0.009
3/19/2024 7:18	0	0.006
3/19/2024 7:19	0	0.011
3/19/2024 7:20	0	0.004
3/19/2024 7:21	0	0.002
3/19/2024 7:22	0	0.007
3/19/2024 7:23	0	0.003
3/19/2024 7:24	0	0.004
3/19/2024 7:25	0	0.006
3/19/2024 7:26	0	0.004
3/19/2024 7:27	0	0.003
3/19/2024 7:28	0	0.003
3/19/2024 7:29	0	0.003
3/19/2024 7:30	0	0.003
3/19/2024 7:31	0	0.004
3/19/2024 7:32	0	0.003
3/19/2024 7:33	0	0.003
3/19/2024 7:34	0	0.003
3/19/2024 7:35	0	0.003
3/19/2024 7:36	0	0.003
3/19/2024 7:37	0	0.003
3/19/2024 7:38	0	0.003
3/19/2024 7:39	0	0.003
3/19/2024 7:40	0	0.003
3/19/2024 7:41	0	0.002
3/19/2024 7:42	0	0.003
3/19/2024 7:43	0	0.004
3/19/2024 7:44	0	0.003
3/19/2024 7:45	0	0.003
3/19/2024 7:46	0	0.003
3/19/2024 7:47	0	0.003
3/19/2024 7:48	0	0.003

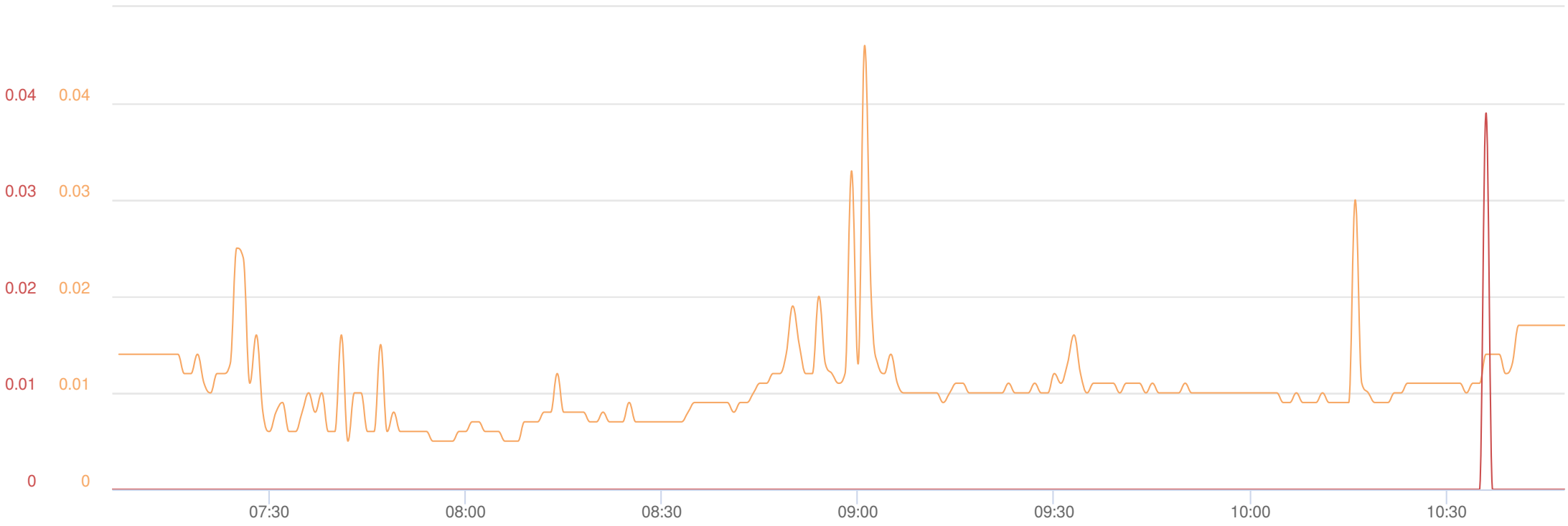
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3/19/2024 7:51	0	0.003
3/19/2024 7:52	0	0.005
3/19/2024 7:53	0	0.005
3/19/2024 7:54	0	0.003
3/19/2024 7:55	0	0.003
3/19/2024 7:56	0	0.005
3/19/2024 7:57	0	0.004
3/19/2024 7:58	0	0.003
3/19/2024 7:59	0	0.003
3/19/2024 8:00	0	0.004
3/19/2024 8:01	0	0.004
3/19/2024 8:02	0	0.003
3/19/2024 8:03	0	0.004
3/19/2024 8:04	0	0.003
3/19/2024 8:05	0	0.004
3/19/2024 8:06	0	0.003
3/19/2024 8:07	0	0.007
3/19/2024 8:08	0	0.003
3/19/2024 8:09	0	0.004
3/19/2024 8:10	0	0.004
3/19/2024 8:11	0	0.004
3/19/2024 8:12	0	0.004
3/19/2024 8:13	0	0.004
3/19/2024 8:14	0	0.006
3/19/2024 8:15	0	0.008
3/19/2024 8:16	0	0.004
3/19/2024 8:17	0	0.006
3/19/2024 8:18	0	0.008
3/19/2024 8:19	0	0.005
3/19/2024 8:20	0	0.005
3/19/2024 8:21	0	0.004
3/19/2024 8:22	0	0.004
3/19/2024 8:23	0	0.004
3/19/2024 8:24	0	0.004
3/19/2024 8:25	0	0.004
3/19/2024 8:26	0	0.004
3/19/2024 8:27	0	0.003
3/19/2024 8:28	0	0.004
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3/19/2024 8:31	0	0.004
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3/19/2024 8:33	0	0.004
3/19/2024 8:34	0	0.005
3/19/2024 8:35	0	0.006

3/19/2024 8:36	0	0.006
3/19/2024 8:37	0	0.007
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3/19/2024 8:47	0	0.011
3/19/2024 8:48	0	0.009
3/19/2024 8:49	0	0.01
3/19/2024 8:50	0	0.008
3/19/2024 8:51	0	0.008
3/19/2024 8:52	0	0.008
3/19/2024 8:53	0	0.008
3/19/2024 8:54	0	0.009
3/19/2024 8:55	0	0.008
3/19/2024 8:56	0	0.008
3/19/2024 8:57	0	0.008
3/19/2024 8:58	0	0.01
3/19/2024 8:59	0	0.009
3/19/2024 9:00	0	0.009
3/19/2024 9:01	0	0.009
3/19/2024 9:02	0	0.01
3/19/2024 9:03	0	0.008
3/19/2024 9:04	0	0.008
3/19/2024 9:05	0	0.007
3/19/2024 9:06	0	0.007
3/19/2024 9:07	0	0.008
3/19/2024 9:08	0	0.007
3/19/2024 9:09	0	0.007
3/19/2024 9:10	0	0.007
3/19/2024 9:11	0	0.007
3/19/2024 9:12	0	0.006
3/19/2024 9:13	0	0.006
3/19/2024 9:14	0	0.006
3/19/2024 9:15	0	0.006
3/19/2024 9:16	0	0.006
3/19/2024 9:17	0	0.007
3/19/2024 9:18	0	0.007
3/19/2024 9:19	0	0.006
3/19/2024 9:20	0	0.007
3/19/2024 9:21	0	0.008
3/19/2024 9:22	0	0.007

3/19/2024 9:23	0	0.006
3/19/2024 9:24	0	0.006
3/19/2024 9:25	0	0.006
3/19/2024 9:26	0	0.007
3/19/2024 9:27	0	0.007
3/19/2024 9:28	0	0.007
3/19/2024 9:29	0	0.007
3/19/2024 9:30	0	0.007
3/19/2024 9:31	0	0.006
3/19/2024 9:32	0	0.006
3/19/2024 9:33	0	0.006
3/19/2024 9:34	0	0.007
3/19/2024 9:35	0	0.006
3/19/2024 9:36	0	0.006
3/19/2024 9:37	0	0.007
3/19/2024 9:38	0	0.007
3/19/2024 9:39	0	0.007
3/19/2024 9:40	0	0.006
3/19/2024 9:41	0	0.007
3/19/2024 9:42	0	0.006
3/19/2024 9:43	0	0.007
3/19/2024 9:44	0	0.006
3/19/2024 9:45	0	0.007
3/19/2024 9:46	0	0.006
3/19/2024 9:47	0	0.006
3/19/2024 9:48	0	0.006
3/19/2024 9:49	0	0.007
3/19/2024 9:50	0	0.007
3/19/2024 9:51	0	0.006
3/19/2024 9:52	0	0.006
3/19/2024 9:53	0	0.007
3/19/2024 9:54	0	0.006
3/19/2024 9:55	0	0.006
3/19/2024 9:56	0	0.006
3/19/2024 9:57	0	0.006
3/19/2024 9:58	0	0.006
3/19/2024 9:59	0	0.006
3/19/2024 10:00	0	0.006
3/19/2024 10:01	0	0.006
3/19/2024 10:02	0	0.006
3/19/2024 10:03	0	0.006
3/19/2024 10:04	0	0.006
3/19/2024 10:05	0	0.006
3/19/2024 10:06	0	0.006
3/19/2024 10:07	0	0.006
3/19/2024 10:08	0	0.006
3/19/2024 10:09	0	0.006

3/19/2024 10:10	0	0.006
3/19/2024 10:11	0	0.006
3/19/2024 10:12	0	0.006
3/19/2024 10:13	0	0.006
3/19/2024 10:14	0	0.007
3/19/2024 10:15	0	0.006
3/19/2024 10:16	0	0.006
3/19/2024 10:17	0	0.006
3/19/2024 10:18	0	0.006
3/19/2024 10:19	0	0.006
3/19/2024 10:20	0	0.006
3/19/2024 10:21	0	0.006
3/19/2024 10:22	0	0.007
3/19/2024 10:23	0	0.007
3/19/2024 10:24	0	0.007
3/19/2024 10:25	0	0.008
3/19/2024 10:26	0	0.008
3/19/2024 10:27	0	0.008
3/19/2024 10:28	0	0.008
3/19/2024 10:29	0	0.008
3/19/2024 10:30	0	0.008
3/19/2024 10:31	0	0.008
3/19/2024 10:32	0	0.008
3/19/2024 10:33	0	0.008
3/19/2024 10:34	0	0.008
3/19/2024 10:35	0	0.008
3/19/2024 10:36	0	0.008
3/19/2024 10:37	0	0.008
3/19/2024 10:38	0	0.008
3/19/2024 10:39	0	0.008
3/19/2024 10:40	0	0.008
3/19/2024 10:41	0	0.008
3/19/2024 10:42	0	0.008
3/19/2024 10:43	0	0.008
3/19/2024 10:44	0	0.008
3/19/2024 10:45	0	0.008
3/19/2024 10:46	0	0.008
3/19/2024 10:47	0	0.008
3/19/2024 10:48		0.008

Tue, 19th of Mar 2024, 0:00:00 – 11:10:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.005	0.011	0.046

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.039

Name	LaBella #2 (FA05353)
S/N	2B018612
Description	FA05353
Location	503 Elk St, Buffalo, NY 14210, USA

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Downwind CAMP Data March 19, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/19/2024 7:06	0	
3/19/2024 7:07	0	0.014
3/19/2024 7:08	0	0.014
3/19/2024 7:09	0	0.014
3/19/2024 7:10	0	0.014
3/19/2024 7:11	0	0.014
3/19/2024 7:12	0	0.014
3/19/2024 7:13	0	0.014
3/19/2024 7:14	0	0.014
3/19/2024 7:15	0	0.014
3/19/2024 7:16	0	0.014
3/19/2024 7:17	0	0.012
3/19/2024 7:18	0	0.012
3/19/2024 7:19	0	0.014
3/19/2024 7:20	0	0.011
3/19/2024 7:21	0	0.01
3/19/2024 7:22	0	0.012
3/19/2024 7:23	0	0.012
3/19/2024 7:24	0	0.013
3/19/2024 7:25	0	0.025
3/19/2024 7:26	0	0.024
3/19/2024 7:27	0	0.011
3/19/2024 7:28	0	0.016
3/19/2024 7:29	0	0.008
3/19/2024 7:30	0	0.006
3/19/2024 7:31	0	0.008
3/19/2024 7:32	0	0.009
3/19/2024 7:33	0	0.006
3/19/2024 7:34	0	0.006
3/19/2024 7:35	0	0.008
3/19/2024 7:36	0	0.01
3/19/2024 7:37	0	0.008
3/19/2024 7:38	0	0.01
3/19/2024 7:39	0	0.006
3/19/2024 7:40	0	0.006
3/19/2024 7:41	0	0.016
3/19/2024 7:42	0	0.005
3/19/2024 7:43	0	0.01
3/19/2024 7:44	0	0.01
3/19/2024 7:45	0	0.006
3/19/2024 7:46	0	0.006
3/19/2024 7:47	0	0.015
3/19/2024 7:48	0	0.006
3/19/2024 7:49	0	0.008

3/19/2024 7:50	0	0.006
3/19/2024 7:51	0	0.006
3/19/2024 7:52	0	0.006
3/19/2024 7:53	0	0.006
3/19/2024 7:54	0	0.006
3/19/2024 7:55	0	0.005
3/19/2024 7:56	0	0.005
3/19/2024 7:57	0	0.005
3/19/2024 7:58	0	0.005
3/19/2024 7:59	0	0.006
3/19/2024 8:00	0	0.006
3/19/2024 8:01	0	0.007
3/19/2024 8:02	0	0.007
3/19/2024 8:03	0	0.006
3/19/2024 8:04	0	0.006
3/19/2024 8:05	0	0.006
3/19/2024 8:06	0	0.005
3/19/2024 8:07	0	0.005
3/19/2024 8:08	0	0.005
3/19/2024 8:09	0	0.007
3/19/2024 8:10	0	0.007
3/19/2024 8:11	0	0.007
3/19/2024 8:12	0	0.008
3/19/2024 8:13	0	0.008
3/19/2024 8:14	0	0.012
3/19/2024 8:15	0	0.008
3/19/2024 8:16	0	0.008
3/19/2024 8:17	0	0.008
3/19/2024 8:18	0	0.008
3/19/2024 8:19	0	0.007
3/19/2024 8:20	0	0.007
3/19/2024 8:21	0	0.008
3/19/2024 8:22	0	0.007
3/19/2024 8:23	0	0.007
3/19/2024 8:24	0	0.007
3/19/2024 8:25	0	0.009
3/19/2024 8:26	0	0.007
3/19/2024 8:27	0	0.007
3/19/2024 8:28	0	0.007
3/19/2024 8:29	0	0.007
3/19/2024 8:30	0	0.007
3/19/2024 8:31	0	0.007
3/19/2024 8:32	0	0.007
3/19/2024 8:33	0	0.007
3/19/2024 8:34	0	0.008
3/19/2024 8:35	0	0.009
3/19/2024 8:36	0	0.009

3/19/2024 8:37	0	0.009
3/19/2024 8:38	0	0.009
3/19/2024 8:39	0	0.009
3/19/2024 8:40	0	0.009
3/19/2024 8:41	0	0.008
3/19/2024 8:42	0	0.009
3/19/2024 8:43	0	0.009
3/19/2024 8:44	0	0.01
3/19/2024 8:45	0	0.011
3/19/2024 8:46	0	0.011
3/19/2024 8:47	0	0.012
3/19/2024 8:48	0	0.012
3/19/2024 8:49	0	0.014
3/19/2024 8:50	0	0.019
3/19/2024 8:51	0	0.015
3/19/2024 8:52	0	0.012
3/19/2024 8:53	0	0.012
3/19/2024 8:54	0	0.02
3/19/2024 8:55	0	0.013
3/19/2024 8:56	0	0.012
3/19/2024 8:57	0	0.011
3/19/2024 8:58	0	0.012
3/19/2024 8:59	0	0.033
3/19/2024 9:00	0	0.013
3/19/2024 9:01	0	0.046
3/19/2024 9:02	0	0.02
3/19/2024 9:03	0	0.013
3/19/2024 9:04	0	0.012
3/19/2024 9:05	0	0.014
3/19/2024 9:06	0	0.011
3/19/2024 9:07	0	0.01
3/19/2024 9:08	0	0.01
3/19/2024 9:09	0	0.01
3/19/2024 9:10	0	0.01
3/19/2024 9:11	0	0.01
3/19/2024 9:12	0	0.01
3/19/2024 9:13	0	0.009
3/19/2024 9:14	0	0.01
3/19/2024 9:15	0	0.011
3/19/2024 9:16	0	0.011
3/19/2024 9:17	0	0.01
3/19/2024 9:18	0	0.01
3/19/2024 9:19	0	0.01
3/19/2024 9:20	0	0.01
3/19/2024 9:21	0	0.01
3/19/2024 9:22	0	0.01
3/19/2024 9:23	0	0.011

3/19/2024 9:24	0	0.01
3/19/2024 9:25	0	0.01
3/19/2024 9:26	0	0.01
3/19/2024 9:27	0	0.011
3/19/2024 9:28	0	0.01
3/19/2024 9:29	0	0.01
3/19/2024 9:30	0	0.012
3/19/2024 9:31	0	0.011
3/19/2024 9:32	0	0.013
3/19/2024 9:33	0	0.016
3/19/2024 9:34	0	0.012
3/19/2024 9:35	0	0.01
3/19/2024 9:36	0	0.011
3/19/2024 9:37	0	0.011
3/19/2024 9:38	0	0.011
3/19/2024 9:39	0	0.011
3/19/2024 9:40	0	0.01
3/19/2024 9:41	0	0.011
3/19/2024 9:42	0	0.011
3/19/2024 9:43	0	0.011
3/19/2024 9:44	0	0.01
3/19/2024 9:45	0	0.011
3/19/2024 9:46	0	0.01
3/19/2024 9:47	0	0.01
3/19/2024 9:48	0	0.01
3/19/2024 9:49	0	0.01
3/19/2024 9:50	0	0.011
3/19/2024 9:51	0	0.01
3/19/2024 9:52	0	0.01
3/19/2024 9:53	0	0.01
3/19/2024 9:54	0	0.01
3/19/2024 9:55	0	0.01
3/19/2024 9:56	0	0.01
3/19/2024 9:57	0	0.01
3/19/2024 9:58	0	0.01
3/19/2024 9:59	0	0.01
3/19/2024 10:00	0	0.01
3/19/2024 10:01	0	0.01
3/19/2024 10:02	0	0.01
3/19/2024 10:03	0	0.01
3/19/2024 10:04	0	0.01
3/19/2024 10:05	0	0.009
3/19/2024 10:06	0	0.009
3/19/2024 10:07	0	0.01
3/19/2024 10:08	0	0.009
3/19/2024 10:09	0	0.009
3/19/2024 10:10	0	0.009

3/19/2024 10:11	0	0.01
3/19/2024 10:12	0	0.009
3/19/2024 10:13	0	0.009
3/19/2024 10:14	0	0.009
3/19/2024 10:15	0	0.009
3/19/2024 10:16	0	0.03
3/19/2024 10:17	0	0.011
3/19/2024 10:18	0	0.01
3/19/2024 10:19	0	0.009
3/19/2024 10:20	0	0.009
3/19/2024 10:21	0	0.009
3/19/2024 10:22	0	0.01
3/19/2024 10:23	0	0.01
3/19/2024 10:24	0	0.011
3/19/2024 10:25	0	0.011
3/19/2024 10:26	0	0.011
3/19/2024 10:27	0	0.011
3/19/2024 10:28	0	0.011
3/19/2024 10:29	0	0.011
3/19/2024 10:30	0	0.011
3/19/2024 10:31	0	0.011
3/19/2024 10:32	0	0.011
3/19/2024 10:33	0	0.01
3/19/2024 10:34	0	0.011
3/19/2024 10:35	0	0.011
3/19/2024 10:36	0.039	0.014
3/19/2024 10:37	0	0.014
3/19/2024 10:38	0	0.014
3/19/2024 10:39	0	0.012
3/19/2024 10:40	0	0.013
3/19/2024 10:41	0	0.017
3/19/2024 10:42	0	0.017
3/19/2024 10:43	0	0.017
3/19/2024 10:44	0	0.017
3/19/2024 10:45	0	0.017
3/19/2024 10:46	0	0.017
3/19/2024 10:47	0	0.017
3/19/2024 10:48	0	0.017

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 03/19/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ **HASP** ☒ **First-Aid Kit** ☒ **Eye wash bottle/station** ☒ **Fire Extinguisher**

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	3/19/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar CAMP Monitoring	**DATE:**	3/21/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	----------
CONTRACTOR:	Milestone	**Sheet No.**	1 **of** 1
	Chris Finn - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
			Wind, Sun **AM** Wind, sun **PM**
		Temperature:	
			29 **AM** 30s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

06:45 – LaBella and Milestone arrive on-site.

07:00 – CAMP meters set up and started.

07:30 – Milestone began working in the culvert. A new demarcation layer to be put in place across the culvert and covered with stone.

9:00 – Milestone began to cover the demarcation layer with imported stone.

10:00 – Milestone began placing 36” culvert piping.

10:30 – Milestone began backfilling with runner crush around the culvert piping and will begin constructing roadcrossing.

13:00 – Roadway across culvert piping completed. Backing filling the remaining length of the pipe continues and is planned to be finished tomorrow.

13:30 – Work on the second portion of the access road in OU-2 began.

15:00 – Two dump trucks with stone arrive on-site. Backfilling around the culvert pipe continues.

16:00 – Milestone off-site. LaBella began taking down CAMP meters.

16:30 – LaBella off-site

LaBella
Powered by partnership.

Morning Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow
24°F
-4°C

Humidity	62%
Wind Speed	W 14 mph
Barometer	30.20 in (1023.7 mb)
Dewpoint	13°F (-11°C)
Visibility	10.00 mi
Wind Chill	12°F (-11°C)
Last update	21 Mar 9:54 am EDT

Afternoon Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow
26°F
-3°C

Humidity	57%
Wind Speed	W 14 G 22 mph
Barometer	30.24 in (1025.2 mb)
Dewpoint	13°F (-11°C)
Visibility	9.00 mi
Wind Chill	14°F (-10°C)
Last update	21 Mar 1:54 pm EDT







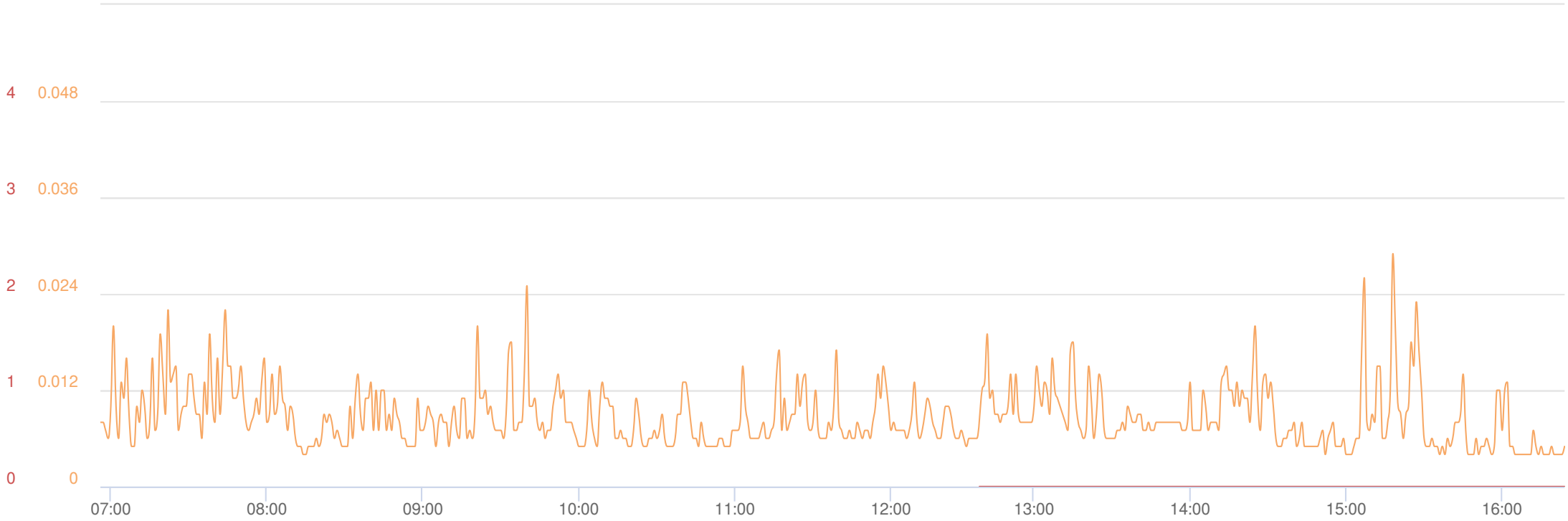






LaBella
Powered by partnership.

Thu, 21st of Mar 2024, 0:00:00 – 16:25:23
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.004	**0.009**	**0.029**

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	**0**	**0**

Name	LaBella #1 (FA05345)
S/N	2B004188
Description	FA05345
Location	5 Babcock St, Buffalo, NY 14210, USA

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Upwind CAMP Data March 21, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m³)
3/21/2024 6:56	0	0.008
3/21/2024 6:57	0	0.008
3/21/2024 6:58	0	0.007
3/21/2024 6:59	0	0.006
3/21/2024 7:00	0	0.01
3/21/2024 7:01	0	0.02
3/21/2024 7:02	0	0.01
3/21/2024 7:03	0	0.006
3/21/2024 7:04	0	0.013
3/21/2024 7:05	0	0.011
3/21/2024 7:06	0	0.016
3/21/2024 7:07	0	0.009
3/21/2024 7:08	0	0.005
3/21/2024 7:09	0	0.005
3/21/2024 7:10	0	0.01
3/21/2024 7:11	0	0.008
3/21/2024 7:12	0	0.012
3/21/2024 7:13	0	0.01
3/21/2024 7:14	0	0.006
3/21/2024 7:15	0	0.008
3/21/2024 7:16	0	0.016
3/21/2024 7:17	0	0.007
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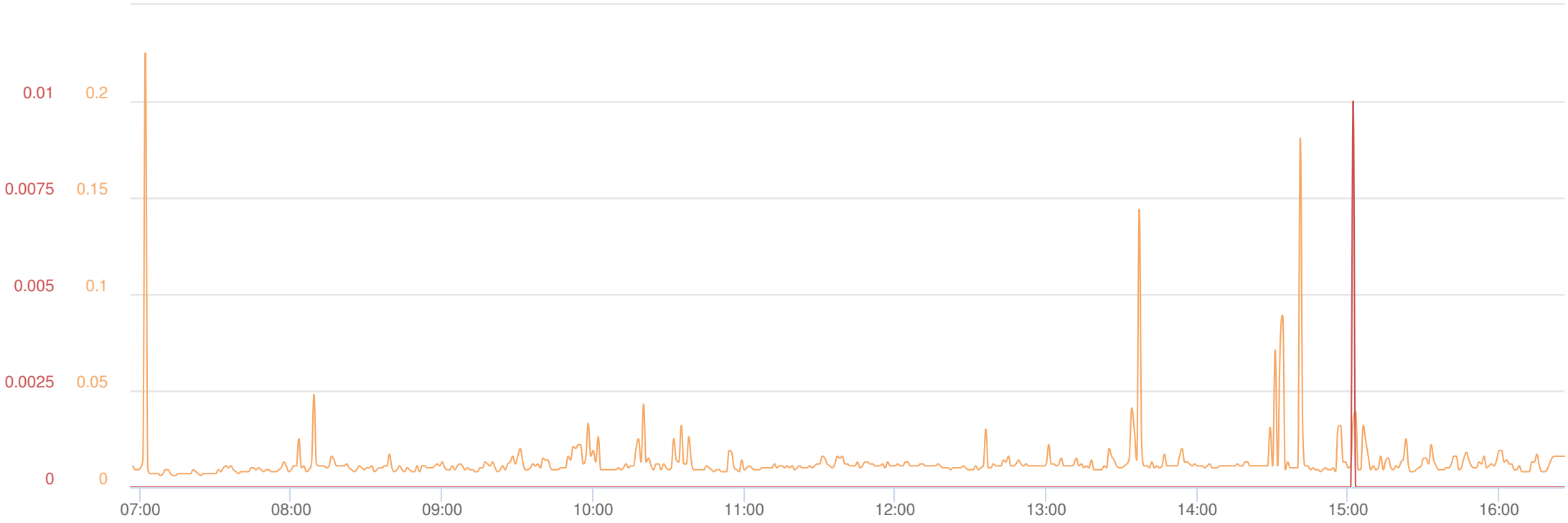
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3/21/2024 15:14	0	0.006
3/21/2024 15:15	0	0.006
3/21/2024 15:16	0	0.008
3/21/2024 15:17	0	0.012
3/21/2024 15:18	0	0.029
3/21/2024 15:19	0	0.019
3/21/2024 15:20	0	0.01
3/21/2024 15:21	0	0.009
3/21/2024 15:22	0	0.006
3/21/2024 15:23	0	0.009
3/21/2024 15:24	0	0.01
3/21/2024 15:25	0	0.018
3/21/2024 15:26	0	0.015
3/21/2024 15:27	0	0.023
3/21/2024 15:28	0	0.017
3/21/2024 15:29	0	0.012
3/21/2024 15:30	0	0.006
3/21/2024 15:31	0	0.005
3/21/2024 15:32	0	0.005
3/21/2024 15:33	0	0.006
3/21/2024 15:34	0	0.005

3/21/2024 15:35	0	0.005
3/21/2024 15:36	0	0.004
3/21/2024 15:37	0	0.005
3/21/2024 15:38	0	0.004
3/21/2024 15:39	0	0.006
3/21/2024 15:40	0	0.005
3/21/2024 15:41	0	0.006
3/21/2024 15:42	0	0.008
3/21/2024 15:43	0	0.008
3/21/2024 15:44	0	0.009
3/21/2024 15:45	0	0.014
3/21/2024 15:46	0	0.007
3/21/2024 15:47	0	0.004
3/21/2024 15:48	0	0.004
3/21/2024 15:49	0	0.004
3/21/2024 15:50	0	0.006
3/21/2024 15:51	0	0.004
3/21/2024 15:52	0	0.005
3/21/2024 15:53	0	0.005
3/21/2024 15:54	0	0.006
3/21/2024 15:55	0	0.005
3/21/2024 15:56	0	0.004
3/21/2024 15:57	0	0.005
3/21/2024 15:58	0	0.012
3/21/2024 15:59	0	0.012
3/21/2024 16:00	0	0.007
3/21/2024 16:01	0	0.012
3/21/2024 16:02	0	0.013
3/21/2024 16:03	0	0.005
3/21/2024 16:04	0	0.005
3/21/2024 16:05	0	0.004
3/21/2024 16:06	0	0.004
3/21/2024 16:07	0	0.004
3/21/2024 16:08	0	0.004
3/21/2024 16:09	0	0.004
3/21/2024 16:10	0	0.004
3/21/2024 16:11	0	0.004
3/21/2024 16:12	0	0.007
3/21/2024 16:13	0	0.005
3/21/2024 16:14	0	0.004
3/21/2024 16:15	0	0.005
3/21/2024 16:16	0	0.004
3/21/2024 16:17	0	0.004
3/21/2024 16:18	0	0.004
3/21/2024 16:19	0	0.005
3/21/2024 16:20	0	0.004
3/21/2024 16:21	0	0.004

3/21/2024 16:22	0	0.004
3/21/2024 16:23	0	0.004
3/21/2024 16:24	0	0.005
3/21/2024 16:25	0	0.005

Thu, 21st of Mar 2024, 0:00:00 – 16:26:59
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.006	0.013	0.225

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.01

Name LaBella #2 (FA05353)
S/N 2B018612
Description FA05353
Location 5 Babcock St, Buffalo, NY 14210, USA

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Downwind CAMP Data March 21, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/21/2024 6:56	0	
3/21/2024 6:57	0	0.011
3/21/2024 6:58	0	0.009
3/21/2024 6:59	0	0.009
3/21/2024 7:00	0	0.01
3/21/2024 7:01	0	0.014
3/21/2024 7:02	0	0.225
3/21/2024 7:03	0	0.009
3/21/2024 7:04	0	0.007
3/21/2024 7:05	0	0.007
3/21/2024 7:06	0	0.007
3/21/2024 7:07	0	0.007
3/21/2024 7:08	0	0.006
3/21/2024 7:09	0	0.007
3/21/2024 7:10	0	0.009
3/21/2024 7:11	0	0.009
3/21/2024 7:12	0	0.007
3/21/2024 7:13	0	0.006
3/21/2024 7:14	0	0.006
3/21/2024 7:15	0	0.007
3/21/2024 7:16	0	0.007
3/21/2024 7:17	0	0.007
3/21/2024 7:18	0	0.007
3/21/2024 7:19	0	0.007
3/21/2024 7:20	0	0.007
3/21/2024 7:21	0	0.009
3/21/2024 7:22	0	0.008
3/21/2024 7:23	0	0.007
3/21/2024 7:24	0	0.006
3/21/2024 7:25	0	0.007
3/21/2024 7:26	0	0.007
3/21/2024 7:27	0	0.007
3/21/2024 7:28	0	0.007
3/21/2024 7:29	0	0.007
3/21/2024 7:30	0	0.007
3/21/2024 7:31	0	0.009
3/21/2024 7:32	0	0.008
3/21/2024 7:33	0	0.01
3/21/2024 7:34	0	0.011
3/21/2024 7:35	0	0.01
3/21/2024 7:36	0	0.011
3/21/2024 7:37	0	0.009
3/21/2024 7:38	0	0.008
3/21/2024 7:39	0	0.007

3/21/2024 7:40	0	0.008
3/21/2024 7:41	0	0.008
3/21/2024 7:42	0	0.008
3/21/2024 7:43	0	0.008
3/21/2024 7:44	0	0.01
3/21/2024 7:45	0	0.01
3/21/2024 7:46	0	0.009
3/21/2024 7:47	0	0.01
3/21/2024 7:48	0	0.009
3/21/2024 7:49	0	0.008
3/21/2024 7:50	0	0.009
3/21/2024 7:51	0	0.009
3/21/2024 7:52	0	0.008
3/21/2024 7:53	0	0.008
3/21/2024 7:54	0	0.008
3/21/2024 7:55	0	0.009
3/21/2024 7:56	0	0.01
3/21/2024 7:57	0	0.013
3/21/2024 7:58	0	0.011
3/21/2024 7:59	0	0.008
3/21/2024 8:00	0	0.009
3/21/2024 8:01	0	0.011
3/21/2024 8:02	0	0.011
3/21/2024 8:03	0	0.025
3/21/2024 8:04	0	0.01
3/21/2024 8:05	0	0.011
3/21/2024 8:06	0	0.008
3/21/2024 8:07	0	0.009
3/21/2024 8:08	0	0.012
3/21/2024 8:09	0	0.048
3/21/2024 8:10	0	0.012
3/21/2024 8:11	0	0.011
3/21/2024 8:12	0	0.011
3/21/2024 8:13	0	0.011
3/21/2024 8:14	0	0.01
3/21/2024 8:15	0	0.011
3/21/2024 8:16	0	0.016
3/21/2024 8:17	0	0.014
3/21/2024 8:18	0	0.011
3/21/2024 8:19	0	0.011
3/21/2024 8:20	0	0.011
3/21/2024 8:21	0	0.011
3/21/2024 8:22	0	0.012
3/21/2024 8:23	0	0.01
3/21/2024 8:24	0	0.009
3/21/2024 8:25	0	0.008
3/21/2024 8:26	0	0.009

3/21/2024 8:27	0	0.011
3/21/2024 8:28	0	0.01
3/21/2024 8:29	0	0.009
3/21/2024 8:30	0	0.01
3/21/2024 8:31	0	0.01
3/21/2024 8:32	0	0.011
3/21/2024 8:33	0	0.008
3/21/2024 8:34	0	0.009
3/21/2024 8:35	0	0.01
3/21/2024 8:36	0	0.01
3/21/2024 8:37	0	0.011
3/21/2024 8:38	0	0.011
3/21/2024 8:39	0	0.017
3/21/2024 8:40	0	0.01
3/21/2024 8:41	0	0.008
3/21/2024 8:42	0	0.009
3/21/2024 8:43	0	0.011
3/21/2024 8:44	0	0.009
3/21/2024 8:45	0	0.008
3/21/2024 8:46	0	0.01
3/21/2024 8:47	0	0.009
3/21/2024 8:48	0	0.008
3/21/2024 8:49	0	0.008
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3/21/2024 8:51	0	0.008
3/21/2024 8:52	0	0.011
3/21/2024 8:53	0	0.011
3/21/2024 8:54	0	0.01
3/21/2024 8:55	0	0.01
3/21/2024 8:56	0	0.01
3/21/2024 8:57	0	0.011
3/21/2024 8:58	0	0.012
3/21/2024 8:59	0	0.011
3/21/2024 9:00	0	0.013
3/21/2024 9:01	0	0.01
3/21/2024 9:02	0	0.009
3/21/2024 9:03	0	0.009
3/21/2024 9:04	0	0.011
3/21/2024 9:05	0	0.009
3/21/2024 9:06	0	0.011
3/21/2024 9:07	0	0.012
3/21/2024 9:08	0	0.011
3/21/2024 9:09	0	0.009
3/21/2024 9:10	0	0.01
3/21/2024 9:11	0	0.009
3/21/2024 9:12	0	0.009
3/21/2024 9:13	0	0.008

3/21/2024 9:14	0	0.008
3/21/2024 9:15	0	0.01
3/21/2024 9:16	0	0.01
3/21/2024 9:17	0	0.013
3/21/2024 9:18	0	0.012
3/21/2024 9:19	0	0.011
3/21/2024 9:20	0	0.013
3/21/2024 9:21	0	0.01
3/21/2024 9:22	0	0.008
3/21/2024 9:23	0	0.009
3/21/2024 9:24	0	0.011
3/21/2024 9:25	0	0.009
3/21/2024 9:26	0	0.012
3/21/2024 9:27	0	0.013
3/21/2024 9:28	0	0.016
3/21/2024 9:29	0	0.012
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3/21/2024 9:31	0	0.02
3/21/2024 9:32	0	0.013
3/21/2024 9:33	0	0.009
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3/21/2024 9:35	0	0.01
3/21/2024 9:36	0	0.012
3/21/2024 9:37	0	0.011
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3/21/2024 9:39	0	0.01
3/21/2024 9:40	0	0.015
3/21/2024 9:41	0	0.014
3/21/2024 9:42	0	0.014
3/21/2024 9:43	0	0.01
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3/21/2024 9:46	0	0.009
3/21/2024 9:47	0	0.01
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3/21/2024 9:49	0	0.01
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3/21/2024 9:51	0	0.014
3/21/2024 9:52	0	0.021
3/21/2024 9:53	0	0.02
3/21/2024 9:54	0	0.022
3/21/2024 9:55	0	0.022
3/21/2024 9:56	0	0.012
3/21/2024 9:57	0	0.015
3/21/2024 9:58	0	0.033
3/21/2024 9:59	0	0.016
3/21/2024 10:00	0	0.019

3/21/2024 10:01	0	0.013
3/21/2024 10:02	0	0.026
3/21/2024 10:03	0	0.009
3/21/2024 10:04	0	0.009
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3/21/2024 10:15	0	0.011
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3/21/2024 10:47	0	0.009

3/21/2024 10:48	0	0.008
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3/21/2024 10:59	0	0.014
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3/21/2024 11:02	0	0.011
3/21/2024 11:03	0	0.01
3/21/2024 11:04	0	0.009
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3/21/2024 11:19	0	0.011
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3/21/2024 11:58	0	0.011
3/21/2024 11:59	0	0.011
3/21/2024 12:00	0	0.011
3/21/2024 12:01	0	0.012
3/21/2024 12:02	0	0.011
3/21/2024 12:03	0	0.011
3/21/2024 12:04	0	0.013
3/21/2024 12:05	0	0.013
3/21/2024 12:06	0	0.011
3/21/2024 12:07	0	0.011
3/21/2024 12:08	0	0.011
3/21/2024 12:09	0	0.011
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3/21/2024 12:11	0	0.012
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3/21/2024 12:18	0	0.011
3/21/2024 12:19	0	0.01
3/21/2024 12:20	0	0.01
3/21/2024 12:21	0	0.01

3/21/2024 12:22	0	0.009
3/21/2024 12:23	0	0.01
3/21/2024 12:24	0	0.01
3/21/2024 12:25	0	0.01
3/21/2024 12:26	0	0.01
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3/21/2024 12:32	0	0.011
3/21/2024 12:33	0	0.009
3/21/2024 12:34	0	0.01
3/21/2024 12:35	0	0.011
3/21/2024 12:36	0	0.03
3/21/2024 12:37	0	0.01
3/21/2024 12:38	0	0.01
3/21/2024 12:39	0	0.012
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3/21/2024 12:46	0	0.011
3/21/2024 12:47	0	0.011
3/21/2024 12:48	0	0.012
3/21/2024 12:49	0	0.014
3/21/2024 12:50	0	0.012
3/21/2024 12:51	0	0.011
3/21/2024 12:52	0	0.012
3/21/2024 12:53	0	0.011
3/21/2024 12:54	0	0.011
3/21/2024 12:55	0	0.011
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3/21/2024 12:57	0	0.011
3/21/2024 12:58	0	0.011
3/21/2024 12:59	0	0.011
3/21/2024 13:00	0	0.012
3/21/2024 13:01	0	0.022
3/21/2024 13:02	0	0.012
3/21/2024 13:03	0	0.012
3/21/2024 13:04	0	0.011
3/21/2024 13:05	0	0.012
3/21/2024 13:06	0	0.015
3/21/2024 13:07	0	0.011
3/21/2024 13:08	0	0.011

3/21/2024 13:09	0	0.011
3/21/2024 13:10	0	0.011
3/21/2024 13:11	0	0.012
3/21/2024 13:12	0	0.015
3/21/2024 13:13	0	0.011
3/21/2024 13:14	0	0.012
3/21/2024 13:15	0	0.01
3/21/2024 13:16	0	0.011
3/21/2024 13:17	0	0.01
3/21/2024 13:18	0	0.014
3/21/2024 13:19	0	0.009
3/21/2024 13:20	0	0.009
3/21/2024 13:21	0	0.009
3/21/2024 13:22	0	0.009
3/21/2024 13:23	0	0.011
3/21/2024 13:24	0	0.01
3/21/2024 13:25	0	0.02
3/21/2024 13:26	0	0.016
3/21/2024 13:27	0	0.014
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3/21/2024 13:29	0	0.01
3/21/2024 13:30	0	0.01
3/21/2024 13:31	0	0.011
3/21/2024 13:32	0	0.012
3/21/2024 13:33	0	0.015
3/21/2024 13:34	0	0.041
3/21/2024 13:35	0	0.03
3/21/2024 13:36	0	0.014
3/21/2024 13:37	0	0.144
3/21/2024 13:38	0	0.02
3/21/2024 13:39	0	0.011
3/21/2024 13:40	0	0.011
3/21/2024 13:41	0	0.01
3/21/2024 13:42	0	0.013
3/21/2024 13:43	0	0.01
3/21/2024 13:44	0	0.011
3/21/2024 13:45	0	0.01
3/21/2024 13:46	0	0.011
3/21/2024 13:47	0	0.017
3/21/2024 13:48	0	0.011
3/21/2024 13:49	0	0.011
3/21/2024 13:50	0	0.011
3/21/2024 13:51	0	0.011
3/21/2024 13:52	0	0.011
3/21/2024 13:53	0	0.016
3/21/2024 13:54	0	0.02
3/21/2024 13:55	0	0.013

3/21/2024 13:56	0	0.013
3/21/2024 13:57	0	0.012
3/21/2024 13:58	0	0.011
3/21/2024 13:59	0	0.012
3/21/2024 14:00	0	0.011
3/21/2024 14:01	0	0.011
3/21/2024 14:02	0	0.011
3/21/2024 14:03	0	0.01
3/21/2024 14:04	0	0.011
3/21/2024 14:05	0	0.012
3/21/2024 14:06	0	0.01
3/21/2024 14:07	0	0.01
3/21/2024 14:08	0	0.01
3/21/2024 14:09	0	0.011
3/21/2024 14:10	0	0.011
3/21/2024 14:11	0	0.011
3/21/2024 14:12	0	0.011
3/21/2024 14:13	0	0.011
3/21/2024 14:14	0	0.011
3/21/2024 14:15	0	0.011
3/21/2024 14:16	0	0.012
3/21/2024 14:17	0	0.011
3/21/2024 14:18	0	0.011
3/21/2024 14:19	0	0.013
3/21/2024 14:20	0	0.013
3/21/2024 14:21	0	0.011
3/21/2024 14:22	0	0.011
3/21/2024 14:23	0	0.011
3/21/2024 14:24	0	0.011
3/21/2024 14:25	0	0.011
3/21/2024 14:26	0	0.011
3/21/2024 14:27	0	0.011
3/21/2024 14:28	0	0.011
3/21/2024 14:29	0	0.031
3/21/2024 14:30	0	0.011
3/21/2024 14:31	0	0.071
3/21/2024 14:32	0	0.011
3/21/2024 14:33	0	0.074
3/21/2024 14:34	0	0.089
3/21/2024 14:35	0	0.009
3/21/2024 14:36	0	0.013
3/21/2024 14:37	0	0.01
3/21/2024 14:38	0	0.01
3/21/2024 14:39	0	0.01
3/21/2024 14:40	0	0.01
3/21/2024 14:41	0	0.181
3/21/2024 14:42	0	0.027

3/21/2024 14:43	0	0.011
3/21/2024 14:44	0	0.011
3/21/2024 14:45	0	0.009
3/21/2024 14:46	0	0.01
3/21/2024 14:47	0	0.009
3/21/2024 14:48	0	0.009
3/21/2024 14:49	0	0.008
3/21/2024 14:50	0	0.009
3/21/2024 14:51	0	0.01
3/21/2024 14:52	0	0.009
3/21/2024 14:53	0	0.009
3/21/2024 14:54	0	0.01
3/21/2024 14:55	0	0.008
3/21/2024 14:56	0	0.031
3/21/2024 14:57	0	0.032
3/21/2024 14:58	0	0.013
3/21/2024 14:59	0	0.013
3/21/2024 15:00	0	0.01
3/21/2024 15:01	0	0.011
3/21/2024 15:02	0.01	0.035
3/21/2024 15:03	0	0.039
3/21/2024 15:04	0	0.009
3/21/2024 15:05	0	0.009
3/21/2024 15:06	0	0.032
3/21/2024 15:07	0	0.024
3/21/2024 15:08	0	0.016
3/21/2024 15:09	0	0.009
3/21/2024 15:10	0	0.011
3/21/2024 15:11	0	0.009
3/21/2024 15:12	0	0.01
3/21/2024 15:13	0	0.016
3/21/2024 15:14	0	0.009
3/21/2024 15:15	0	0.014
3/21/2024 15:16	0	0.015
3/21/2024 15:17	0	0.01
3/21/2024 15:18	0	0.009
3/21/2024 15:19	0	0.011
3/21/2024 15:20	0	0.01
3/21/2024 15:21	0	0.013
3/21/2024 15:22	0	0.015
3/21/2024 15:23	0	0.025
3/21/2024 15:24	0	0.011
3/21/2024 15:25	0	0.008
3/21/2024 15:26	0	0.008
3/21/2024 15:27	0	0.009
3/21/2024 15:28	0	0.01
3/21/2024 15:29	0	0.011

3/21/2024 15:30	0	0.015
3/21/2024 15:31	0	0.015
3/21/2024 15:32	0	0.012
3/21/2024 15:33	0	0.022
3/21/2024 15:34	0	0.014
3/21/2024 15:35	0	0.011
3/21/2024 15:36	0	0.009
3/21/2024 15:37	0	0.009
3/21/2024 15:38	0	0.009
3/21/2024 15:39	0	0.01
3/21/2024 15:40	0	0.01
3/21/2024 15:41	0	0.012
3/21/2024 15:42	0	0.016
3/21/2024 15:43	0	0.016
3/21/2024 15:44	0	0.009
3/21/2024 15:45	0	0.01
3/21/2024 15:46	0	0.015
3/21/2024 15:47	0	0.018
3/21/2024 15:48	0	0.014
3/21/2024 15:49	0	0.011
3/21/2024 15:50	0	0.01
3/21/2024 15:51	0	0.01
3/21/2024 15:52	0	0.013
3/21/2024 15:53	0	0.012
3/21/2024 15:54	0	0.016
3/21/2024 15:55	0	0.01
3/21/2024 15:56	0	0.011
3/21/2024 15:57	0	0.012
3/21/2024 15:58	0	0.011
3/21/2024 15:59	0	0.014
3/21/2024 16:00	0	0.019
3/21/2024 16:01	0	0.019
3/21/2024 16:02	0	0.013
3/21/2024 16:03	0	0.014
3/21/2024 16:04	0	0.012
3/21/2024 16:05	0	0.012
3/21/2024 16:06	0	0.009
3/21/2024 16:07	0	0.009
3/21/2024 16:08	0	0.011
3/21/2024 16:09	0	0.008
3/21/2024 16:10	0	0.008
3/21/2024 16:11	0	0.008
3/21/2024 16:12	0	0.008
3/21/2024 16:13	0	0.013
3/21/2024 16:14	0	0.013
3/21/2024 16:15	0	0.017
3/21/2024 16:16	0	0.011

3/21/2024 16:17	0	0.008
3/21/2024 16:18	0	0.008
3/21/2024 16:19	0	0.009
3/21/2024 16:20	0	0.012
3/21/2024 16:21	0	0.015
3/21/2024 16:22	0	0.016
3/21/2024 16:23	0	0.016
3/21/2024 16:24	0	0.016
3/21/2024 16:25	0	0.016
3/21/2024 16:26	0	0.016

LaBella
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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 03/21/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	3/21/2024

DAILY INSPECTION REPORT

JOB TITLE: Elk Street Solar
DATE: March 22, 2024
LaBella JOB NO.: 2211232
Day of Week: S M T W T **F** S
CLIENT: Elk Street Solar
I.R. No.:
CONTRACTOR: Milestone
Sheet No. 1 **of** 1

Chris Finn – LaBella

PHOTOS TAKEN: Yes

Weather:
Snow **AM** Snow **PM**

Temperature:
20s **AM** 20s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0645 – LaBella on-site
0700 – Milestone on-site
0715 – CAMP meters set up and started
0730 – Milestone began work on backfilling the area around the newly installed culvert piping and placing subbase on the access road in OU-2E. Trucks delivering stone throughout the day.
1030 – Milestone continuing to work on backfilling and access road.
12:00 – Milestone began placing culvert piping in the smaller upper drainage ditch.
12:15 – Milestone began covering culvert piping with imported runner crush. Access road lower culvert piping work has been completed.
13:30 – Milestone work completed and off-site. LaBella began taking down CAMP meters.

LaBella
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Morning Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow
23°F
-5°C

Humidity	68%
Wind Speed	E 15 mph
Barometer	30.34 in (1028.6 mb)
Dewpoint	14°F (-10°C)
Visibility	5.00 mi
Wind Chill	10°F (-12°C)
Last update	22 Mar 10:54 am EDT

Afternoon Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow Fog/Mist
24°F
-4°C

Humidity	84%
Wind Speed	NE 9 mph
Barometer	30.24 in (1025.4 mb)
Dewpoint	20°F (-7°C)
Visibility	0.50 mi
Wind Chill	14°F (-10°C)
Last update	22 Mar 1:54 pm EDT













LaBella
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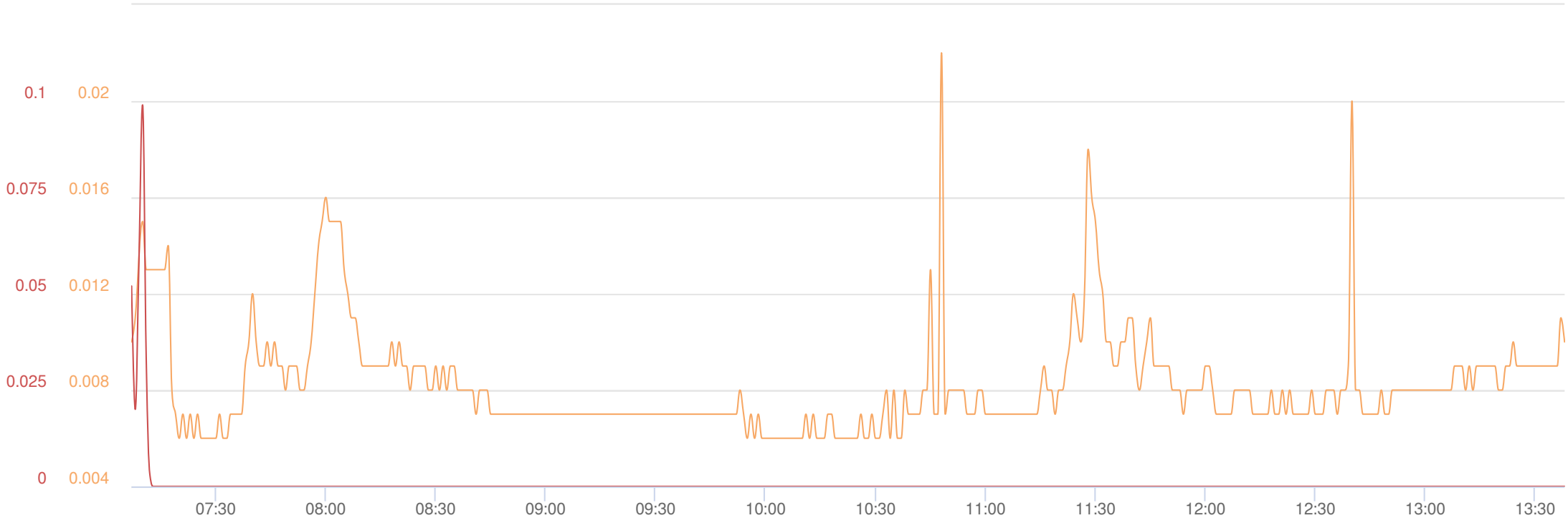






LaBella
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Fri, 22nd of Mar 2024, 0:00:00 – 13:38:58
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.006	0.008	0.022

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.001	0.099

Name	LaBella #1 (FA05345)
S/N	2B004188
Description	FA05345
Location	5 Babcock St, Buffalo, NY 14210, USA

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Upwind CAMP Monitoring Data March 22, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/22/2024 7:07	0.052	0.01
3/22/2024 7:08	0.02	0.011
3/22/2024 7:09	0.058	
3/22/2024 7:10	0.099	0.015
3/22/2024 7:11	0.033	0.013
3/22/2024 7:12	0.003	0.013
3/22/2024 7:13	0	0.013
3/22/2024 7:14	0	0.013
3/22/2024 7:15	0	0.013
3/22/2024 7:16	0	0.013
3/22/2024 7:17	0	0.014
3/22/2024 7:18	0	0.008
3/22/2024 7:19	0	0.007
3/22/2024 7:20	0	0.006
3/22/2024 7:21	0	0.007
3/22/2024 7:22	0	0.006
3/22/2024 7:23	0	0.007
3/22/2024 7:24	0	0.006
3/22/2024 7:25	0	0.007
3/22/2024 7:26	0	0.006
3/22/2024 7:27	0	0.006
3/22/2024 7:28	0	0.006
3/22/2024 7:29	0	0.006
3/22/2024 7:30	0	0.006
3/22/2024 7:31	0	0.007
3/22/2024 7:32	0	0.006
3/22/2024 7:33	0	0.006
3/22/2024 7:34	0	0.007
3/22/2024 7:35	0	0.007
3/22/2024 7:36	0	0.007
3/22/2024 7:37	0	0.007
3/22/2024 7:38	0	0.009
3/22/2024 7:39	0	0.01
3/22/2024 7:40	0	0.012
3/22/2024 7:41	0	0.01
3/22/2024 7:42	0	0.009
3/22/2024 7:43	0	0.009
3/22/2024 7:44	0	0.01
3/22/2024 7:45	0	0.009
3/22/2024 7:46	0	0.01
3/22/2024 7:47	0	0.009
3/22/2024 7:48	0	0.009
3/22/2024 7:49	0	0.008
3/22/2024 7:50	0	0.009

3/22/2024 7:51	0	0.009
3/22/2024 7:52	0	0.009
3/22/2024 7:53	0	0.008
3/22/2024 7:54	0	0.008
3/22/2024 7:55	0	0.009
3/22/2024 7:56	0	0.01
3/22/2024 7:57	0	0.012
3/22/2024 7:58	0	0.014
3/22/2024 7:59	0	0.015
3/22/2024 8:00	0	0.016
3/22/2024 8:01	0	0.015
3/22/2024 8:02	0	0.015
3/22/2024 8:03	0	0.015
3/22/2024 8:04	0	0.015
3/22/2024 8:05	0	0.013
3/22/2024 8:06	0	0.012
3/22/2024 8:07	0	0.011
3/22/2024 8:08	0	0.011
3/22/2024 8:09	0	0.01
3/22/2024 8:10	0	0.009
3/22/2024 8:11	0	0.009
3/22/2024 8:12	0	0.009
3/22/2024 8:13	0	0.009
3/22/2024 8:14	0	0.009
3/22/2024 8:15	0	0.009
3/22/2024 8:16	0	0.009
3/22/2024 8:17	0	0.009
3/22/2024 8:18	0	0.01
3/22/2024 8:19	0	0.009
3/22/2024 8:20	0	0.01
3/22/2024 8:21	0	0.009
3/22/2024 8:22	0	0.009
3/22/2024 8:23	0	0.008
3/22/2024 8:24	0	0.009
3/22/2024 8:25	0	0.009
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3/22/2024 8:27	0	0.009
3/22/2024 8:28	0	0.008
3/22/2024 8:29	0	0.008
3/22/2024 8:30	0	0.009
3/22/2024 8:31	0	0.008
3/22/2024 8:32	0	0.009
3/22/2024 8:33	0	0.008
3/22/2024 8:34	0	0.009
3/22/2024 8:35	0	0.009
3/22/2024 8:36	0	0.008
3/22/2024 8:37	0	0.008

3/22/2024 8:38	0	0.008
3/22/2024 8:39	0	0.008
3/22/2024 8:40	0	0.008
3/22/2024 8:41	0	0.007
3/22/2024 8:42	0	0.008
3/22/2024 8:43	0	0.008
3/22/2024 8:44	0	0.008
3/22/2024 8:45	0	0.007
3/22/2024 8:46	0	0.007
3/22/2024 8:47	0	0.007
3/22/2024 8:48	0	0.007
3/22/2024 8:49	0	0.007
3/22/2024 8:50	0	0.007
3/22/2024 8:51	0	0.007
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3/22/2024 8:58	0	0.007
3/22/2024 8:59	0	0.007
3/22/2024 9:00	0	0.007
3/22/2024 9:01	0	0.007
3/22/2024 9:02	0	0.007
3/22/2024 9:03	0	0.007
3/22/2024 9:04	0	0.007
3/22/2024 9:05	0	0.007
3/22/2024 9:06	0	0.007
3/22/2024 9:07	0	0.007
3/22/2024 9:08	0	0.007
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3/22/2024 9:19	0	0.007
3/22/2024 9:20	0	0.007
3/22/2024 9:21	0	0.007
3/22/2024 9:22	0	0.007
3/22/2024 9:23	0	0.007
3/22/2024 9:24	0	0.007

3/22/2024 9:25	0	0.007
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3/22/2024 9:27	0	0.007
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3/22/2024 9:51	0	0.007
3/22/2024 9:52	0	0.007
3/22/2024 9:53	0	0.008
3/22/2024 9:54	0	0.007
3/22/2024 9:55	0	0.006
3/22/2024 9:56	0	0.007
3/22/2024 9:57	0	0.006
3/22/2024 9:58	0	0.007
3/22/2024 9:59	0	0.006
3/22/2024 10:00	0	0.006
3/22/2024 10:01	0	0.006
3/22/2024 10:02	0	0.006
3/22/2024 10:03	0	0.006
3/22/2024 10:04	0	0.006
3/22/2024 10:05	0	0.006
3/22/2024 10:06	0	0.006
3/22/2024 10:07	0	0.006
3/22/2024 10:08	0	0.006
3/22/2024 10:09	0	0.006
3/22/2024 10:10	0	0.006
3/22/2024 10:11	0	0.007

3/22/2024 10:12	0	0.006
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3/22/2024 10:17	0	0.007
3/22/2024 10:18	0	0.007
3/22/2024 10:19	0	0.006
3/22/2024 10:20	0	0.006
3/22/2024 10:21	0	0.006
3/22/2024 10:22	0	0.006
3/22/2024 10:23	0	0.006
3/22/2024 10:24	0	0.006
3/22/2024 10:25	0	0.006
3/22/2024 10:26	0	0.007
3/22/2024 10:27	0	0.006
3/22/2024 10:28	0	0.006
3/22/2024 10:29	0	0.007
3/22/2024 10:30	0	0.006
3/22/2024 10:31	0	0.006
3/22/2024 10:32	0	0.007
3/22/2024 10:33	0	0.008
3/22/2024 10:34	0	0.006
3/22/2024 10:35	0	0.008
3/22/2024 10:36	0	0.006
3/22/2024 10:37	0	0.006
3/22/2024 10:38	0	0.008
3/22/2024 10:39	0	0.007
3/22/2024 10:40	0	0.007
3/22/2024 10:41	0	0.007
3/22/2024 10:42	0	0.007
3/22/2024 10:43	0	0.008
3/22/2024 10:44	0	0.008
3/22/2024 10:45	0	0.013
3/22/2024 10:46	0	0.007
3/22/2024 10:47	0	0.007
3/22/2024 10:48	0	0.022
3/22/2024 10:49	0	0.007
3/22/2024 10:50	0	0.008
3/22/2024 10:51	0	0.008
3/22/2024 10:52	0	0.008
3/22/2024 10:53	0	0.008
3/22/2024 10:54	0	0.008
3/22/2024 10:55	0	0.007
3/22/2024 10:56	0	0.007
3/22/2024 10:57	0	0.007
3/22/2024 10:58	0	0.008

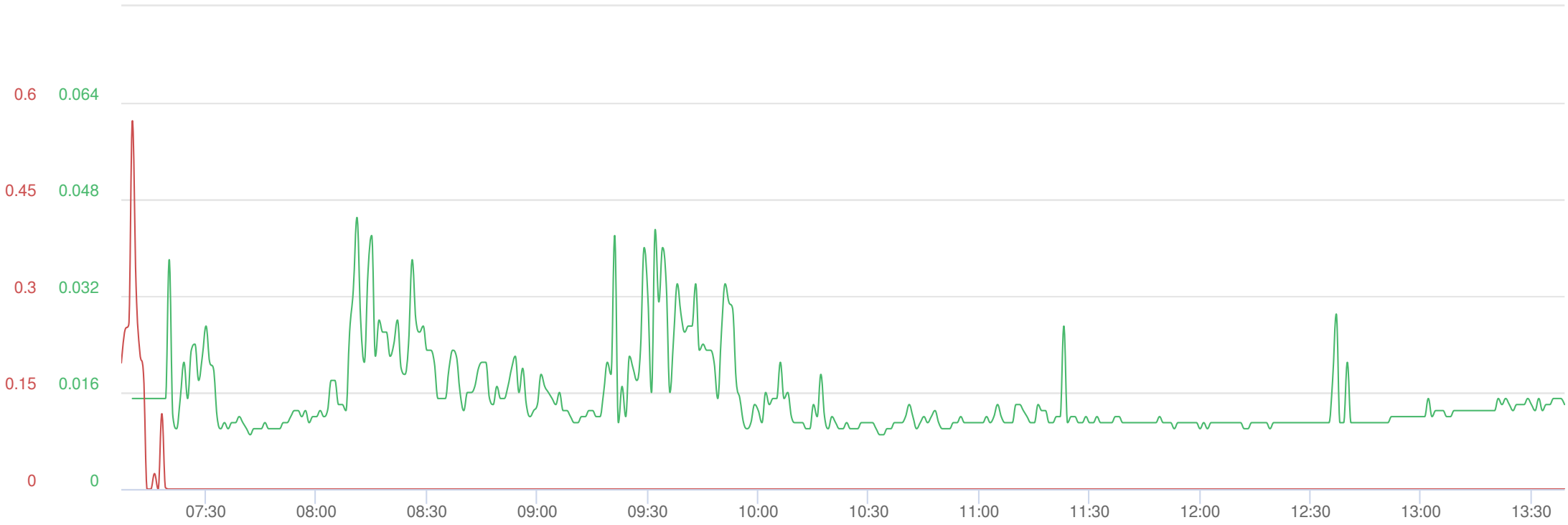
3/22/2024 10:59	0	0.008
3/22/2024 11:00	0	0.007
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3/22/2024 11:02	0	0.007
3/22/2024 11:03	0	0.007
3/22/2024 11:04	0	0.007
3/22/2024 11:05	0	0.007
3/22/2024 11:06	0	0.007
3/22/2024 11:07	0	0.007
3/22/2024 11:08	0	0.007
3/22/2024 11:09	0	0.007
3/22/2024 11:10	0	0.007
3/22/2024 11:11	0	0.007
3/22/2024 11:12	0	0.007
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3/22/2024 11:14	0	0.007
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3/22/2024 11:19	0	0.007
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3/22/2024 11:21	0	0.008
3/22/2024 11:22	0	0.009
3/22/2024 11:23	0	0.01
3/22/2024 11:24	0	0.012
3/22/2024 11:25	0	0.011
3/22/2024 11:26	0	0.01
3/22/2024 11:27	0	0.012
3/22/2024 11:28	0	0.018
3/22/2024 11:29	0	0.016
3/22/2024 11:30	0	0.015
3/22/2024 11:31	0	0.013
3/22/2024 11:32	0	0.012
3/22/2024 11:33	0	0.01
3/22/2024 11:34	0	0.01
3/22/2024 11:35	0	0.009
3/22/2024 11:36	0	0.009
3/22/2024 11:37	0	0.01
3/22/2024 11:38	0	0.01
3/22/2024 11:39	0	0.011
3/22/2024 11:40	0	0.011
3/22/2024 11:41	0	0.009
3/22/2024 11:42	0	0.008
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3/22/2024 11:44	0	0.01
3/22/2024 11:45	0	0.011

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3/22/2024 11:47	0	0.009
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3/22/2024 11:49	0	0.009
3/22/2024 11:50	0	0.009
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3/22/2024 11:52	0	0.008
3/22/2024 11:53	0	0.008
3/22/2024 11:54	0	0.007
3/22/2024 11:55	0	0.008
3/22/2024 11:56	0	0.008
3/22/2024 11:57	0	0.008
3/22/2024 11:58	0	0.008
3/22/2024 11:59	0	0.008
3/22/2024 12:00	0	0.009
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3/22/2024 12:07	0	0.007
3/22/2024 12:08	0	0.008
3/22/2024 12:09	0	0.008
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3/22/2024 12:26	0	0.007
3/22/2024 12:27	0	0.007
3/22/2024 12:28	0	0.007
3/22/2024 12:29	0	0.008
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3/22/2024 12:31	0	0.007
3/22/2024 12:32	0	0.007

3/22/2024 12:33	0	0.008
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3/22/2024 12:36	0	0.007
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3/22/2024 12:39	0	0.009
3/22/2024 12:40	0	0.02
3/22/2024 12:41	0	0.008
3/22/2024 12:42	0	0.008
3/22/2024 12:43	0	0.007
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3/22/2024 12:45	0	0.007
3/22/2024 12:46	0	0.007
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3/22/2024 12:58	0	0.008
3/22/2024 12:59	0	0.008
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3/22/2024 13:02	0	0.008
3/22/2024 13:03	0	0.008
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3/22/2024 13:13	0	0.008
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3/22/2024 13:19	0	0.009

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3/22/2024 13:23	0	0.009
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3/22/2024 13:27	0	0.009
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3/22/2024 13:33	0	0.009
3/22/2024 13:34	0	0.009
3/22/2024 13:35	0	0.009
3/22/2024 13:36	0	0.009
3/22/2024 13:37	0	0.011
3/22/2024 13:38	0	0.01

Fri, 22nd of Mar 2024, 0:00:00 – 13:40:08
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.009	0.015	0.045

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.005	0.572

Name	LaBella #2 (FA05353)
S/N	2B018612
Description	FA05353
Location	625 Elk St, Buffalo, NY 14210, USA

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Downwind CAMP Monitoring Data March 22, 2024

Timestamp	VOC (ppm)	Mass Conc. Total (mg/m^3)
3/22/2024 7:07	0.196	
3/22/2024 7:08	0.247	
3/22/2024 7:09	0.255	
3/22/2024 7:10	0.572	0.015
3/22/2024 7:11	0.315	0.015
3/22/2024 7:12	0.214	0.015
3/22/2024 7:13	0.18	0.015
3/22/2024 7:14	0	0.015
3/22/2024 7:15	0	0.015
3/22/2024 7:16	0.024	0.015
3/22/2024 7:17	0	0.015
3/22/2024 7:18	0.117	0.015
3/22/2024 7:19	0.002	0.015
3/22/2024 7:20	0	0.038
3/22/2024 7:21	0	0.012
3/22/2024 7:22	0	0.01
3/22/2024 7:23	0	0.015
3/22/2024 7:24	0	0.021
3/22/2024 7:25	0	0.015
3/22/2024 7:26	0	0.023
3/22/2024 7:27	0	0.024
3/22/2024 7:28	0	0.018
3/22/2024 7:29	0	0.022
3/22/2024 7:30	0	0.027
3/22/2024 7:31	0	0.021
3/22/2024 7:32	0	0.02
3/22/2024 7:33	0	0.012
3/22/2024 7:34	0	0.01
3/22/2024 7:35	0	0.011
3/22/2024 7:36	0	0.01
3/22/2024 7:37	0	0.011
3/22/2024 7:38	0	0.011
3/22/2024 7:39	0	0.012
3/22/2024 7:40	0	0.011
3/22/2024 7:41	0	0.01
3/22/2024 7:42	0	0.009
3/22/2024 7:43	0	0.01
3/22/2024 7:44	0	0.01
3/22/2024 7:45	0	0.01
3/22/2024 7:46	0	0.011
3/22/2024 7:47	0	0.01
3/22/2024 7:48	0	0.01
3/22/2024 7:49	0	0.01
3/22/2024 7:50	0	0.01

3/22/2024 7:51	0	0.011
3/22/2024 7:52	0	0.011
3/22/2024 7:53	0	0.012
3/22/2024 7:54	0	0.013
3/22/2024 7:55	0	0.013
3/22/2024 7:56	0	0.012
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3/22/2024 7:58	0	0.011
3/22/2024 7:59	0	0.012
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3/22/2024 8:02	0	0.012
3/22/2024 8:03	0	0.013
3/22/2024 8:04	0	0.018
3/22/2024 8:05	0	0.018
3/22/2024 8:06	0	0.014
3/22/2024 8:07	0	0.014
3/22/2024 8:08	0	0.013
3/22/2024 8:09	0	0.026
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3/22/2024 8:17	0	0.028
3/22/2024 8:18	0	0.026
3/22/2024 8:19	0	0.026
3/22/2024 8:20	0	0.022
3/22/2024 8:21	0	0.024
3/22/2024 8:22	0	0.028
3/22/2024 8:23	0	0.02
3/22/2024 8:24	0	0.019
3/22/2024 8:25	0	0.024
3/22/2024 8:26	0	0.038
3/22/2024 8:27	0	0.028
3/22/2024 8:28	0	0.026
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3/22/2024 8:35	0	0.015
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3/22/2024 8:37	0	0.023

3/22/2024 8:38	0	0.022
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3/22/2024 8:48	0	0.014
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3/22/2024 8:51	0	0.015
3/22/2024 8:52	0	0.017
3/22/2024 8:53	0	0.02
3/22/2024 8:54	0	0.022
3/22/2024 8:55	0	0.016
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3/22/2024 9:03	0	0.016
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3/22/2024 9:05	0	0.014
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3/22/2024 9:10	0	0.011
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3/22/2024 9:17	0	0.012
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3/22/2024 9:19	0	0.021
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3/22/2024 9:23	0	0.017
3/22/2024 9:24	0	0.012

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3/22/2024 9:36	0	0.016
3/22/2024 9:37	0	0.025
3/22/2024 9:38	0	0.034
3/22/2024 9:39	0	0.029
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3/22/2024 9:51	0	0.034
3/22/2024 9:52	0	0.031
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3/22/2024 9:54	0	0.018
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3/22/2024 9:59	0	0.014
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3/22/2024 10:08	0	0.016
3/22/2024 10:09	0	0.012
3/22/2024 10:10	0	0.011
3/22/2024 10:11	0	0.011

3/22/2024 10:12	0	0.011
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3/22/2024 10:14	0	0.01
3/22/2024 10:15	0	0.014
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3/22/2024 10:19	0	0.01
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3/22/2024 10:21	0	0.011
3/22/2024 10:22	0	0.01
3/22/2024 10:23	0	0.01
3/22/2024 10:24	0	0.011
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3/22/2024 10:35	0	0.01
3/22/2024 10:36	0	0.01
3/22/2024 10:37	0	0.011
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3/22/2024 10:51	0	0.01
3/22/2024 10:52	0	0.01
3/22/2024 10:53	0	0.011
3/22/2024 10:54	0	0.011
3/22/2024 10:55	0	0.012
3/22/2024 10:56	0	0.011
3/22/2024 10:57	0	0.011
3/22/2024 10:58	0	0.011

3/22/2024 10:59	0	0.011
3/22/2024 11:00	0	0.011
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3/22/2024 11:08	0	0.011
3/22/2024 11:09	0	0.011
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3/22/2024 11:12	0	0.013
3/22/2024 11:13	0	0.012
3/22/2024 11:14	0	0.011
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3/22/2024 11:20	0	0.011
3/22/2024 11:21	0	0.012
3/22/2024 11:22	0	0.012
3/22/2024 11:23	0	0.027
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3/22/2024 11:25	0	0.012
3/22/2024 11:26	0	0.012
3/22/2024 11:27	0	0.011
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3/22/2024 11:32	0	0.012
3/22/2024 11:33	0	0.011
3/22/2024 11:34	0	0.011
3/22/2024 11:35	0	0.011
3/22/2024 11:36	0	0.011
3/22/2024 11:37	0	0.012
3/22/2024 11:38	0	0.012
3/22/2024 11:39	0	0.011
3/22/2024 11:40	0	0.011
3/22/2024 11:41	0	0.011
3/22/2024 11:42	0	0.011
3/22/2024 11:43	0	0.011
3/22/2024 11:44	0	0.011
3/22/2024 11:45	0	0.011

3/22/2024 11:46	0	0.011
3/22/2024 11:47	0	0.011
3/22/2024 11:48	0	0.011
3/22/2024 11:49	0	0.012
3/22/2024 11:50	0	0.011
3/22/2024 11:51	0	0.011
3/22/2024 11:52	0	0.011
3/22/2024 11:53	0	0.01
3/22/2024 11:54	0	0.011
3/22/2024 11:55	0	0.011
3/22/2024 11:56	0	0.011
3/22/2024 11:57	0	0.011
3/22/2024 11:58	0	0.011
3/22/2024 11:59	0	0.011
3/22/2024 12:00	0	0.01
3/22/2024 12:01	0	0.011
3/22/2024 12:02	0	0.01
3/22/2024 12:03	0	0.011
3/22/2024 12:04	0	0.011
3/22/2024 12:05	0	0.011
3/22/2024 12:06	0	0.011
3/22/2024 12:07	0	0.011
3/22/2024 12:08	0	0.011
3/22/2024 12:09	0	0.011
3/22/2024 12:10	0	0.011
3/22/2024 12:11	0	0.011
3/22/2024 12:12	0	0.01
3/22/2024 12:13	0	0.01
3/22/2024 12:14	0	0.011
3/22/2024 12:15	0	0.011
3/22/2024 12:16	0	0.011
3/22/2024 12:17	0	0.011
3/22/2024 12:18	0	0.011
3/22/2024 12:19	0	0.01
3/22/2024 12:20	0	0.011
3/22/2024 12:21	0	0.011
3/22/2024 12:22	0	0.011
3/22/2024 12:23	0	0.011
3/22/2024 12:24	0	0.011
3/22/2024 12:25	0	0.011
3/22/2024 12:26	0	0.011
3/22/2024 12:27	0	0.011
3/22/2024 12:28	0	0.011
3/22/2024 12:29	0	0.011
3/22/2024 12:30	0	0.011
3/22/2024 12:31	0	0.011
3/22/2024 12:32	0	0.011

3/22/2024 12:33	0	0.011
3/22/2024 12:34	0	0.011
3/22/2024 12:35	0	0.011
3/22/2024 12:36	0	0.018
3/22/2024 12:37	0	0.029
3/22/2024 12:38	0	0.011
3/22/2024 12:39	0	0.011
3/22/2024 12:40	0	0.021
3/22/2024 12:41	0	0.011
3/22/2024 12:42	0	0.011
3/22/2024 12:43	0	0.011
3/22/2024 12:44	0	0.011
3/22/2024 12:45	0	0.011
3/22/2024 12:46	0	0.011
3/22/2024 12:47	0	0.011
3/22/2024 12:48	0	0.011
3/22/2024 12:49	0	0.011
3/22/2024 12:50	0	0.011
3/22/2024 12:51	0	0.011
3/22/2024 12:52	0	0.012
3/22/2024 12:53	0	0.012
3/22/2024 12:54	0	0.012
3/22/2024 12:55	0	0.012
3/22/2024 12:56	0	0.012
3/22/2024 12:57	0	0.012
3/22/2024 12:58	0	0.012
3/22/2024 12:59	0	0.012
3/22/2024 13:00	0	0.012
3/22/2024 13:01	0	0.012
3/22/2024 13:02	0	0.015
3/22/2024 13:03	0	0.012
3/22/2024 13:04	0	0.013
3/22/2024 13:05	0	0.013
3/22/2024 13:06	0	0.013
3/22/2024 13:07	0	0.012
3/22/2024 13:08	0	0.012
3/22/2024 13:09	0	0.013
3/22/2024 13:10	0	0.013
3/22/2024 13:11	0	0.013
3/22/2024 13:12	0	0.013
3/22/2024 13:13	0	0.013
3/22/2024 13:14	0	0.013
3/22/2024 13:15	0	0.013
3/22/2024 13:16	0	0.013
3/22/2024 13:17	0	0.013
3/22/2024 13:18	0	0.013
3/22/2024 13:19	0	0.013

3/22/2024 13:20	0	0.013
3/22/2024 13:21	0	0.015
3/22/2024 13:22	0	0.014
3/22/2024 13:23	0	0.015
3/22/2024 13:24	0	0.014
3/22/2024 13:25	0	0.013
3/22/2024 13:26	0	0.014
3/22/2024 13:27	0	0.014
3/22/2024 13:28	0	0.014
3/22/2024 13:29	0	0.015
3/22/2024 13:30	0	0.014
3/22/2024 13:31	0	0.013
3/22/2024 13:32	0	0.015
3/22/2024 13:33	0	0.013
3/22/2024 13:34	0	0.014
3/22/2024 13:35	0	0.014
3/22/2024 13:36	0	0.015
3/22/2024 13:37	0	0.015
3/22/2024 13:38	0	0.015
3/22/2024 13:39	0	0.014

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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 03/22/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ **HASP** ☒ **First-Aid Kit** ☒ **Eye wash bottle/station** ☒ **Fire Extinguisher**

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	3/22/2024

DAILY INSPECTION REPORT

JOB TITLE: Elk Street Concrete Slab #1
DATE: 4/19/2024
LaBella JOB NO.: #2211232
Day of Week: S M T **W** T F S
CLIENT: Elk Street Commerce Park
I.R. No.: ----------
CONTRACTOR: Milestone
Sheet No. 1 **of** 1

Chris Finn- LaBella

PHOTOS TAKEN: No

Weather:
Cloudy **AM** **PM**

Temperature:
62 **AM** **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 – LaBella and Milestone arrive on-site

0830 – Milestone working on completing frame for concrete slab using wood and concrete jersey barriers

0930 – Milestone laying NYSDEC approved runner crush and beginning to lay rebar

1130 – Two concrete trucks arrive on-site

1145 – Concrete pouring begins

1300 – Milestone finishing top of concrete

1400 – Milestone off-site concrete work completed

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	4/30/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus on-site, placing wooden forms (approximately 3'x3') for concrete ballasts along the perimeter of the Site.

0930 One concrete truck arrives on-site.

0940 Pouring of concrete began in pre-placed forms.

1000 Inovateus workers placing fence posts following behind the concrete truck.

1030 Concrete truck leaves the site, fence posts are still being placed.

1330 Second truck arrives on-site and begins filling wooden forms with concrete. Fence posts are being placed; fencing is starting to be installed.

1430 Second truck leaves site, placing of fence posts and hanging of fence continues.

1600 Clean-up of work is beginning.

1700 Inovateus off-site

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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 04/30/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	4/30/2024

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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 04/19/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	4/19/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/1/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	**S M T W T F S**
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		50s **AM**	60s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus on-site placing wooden forms (approximately 3'x3') for concrete ballasts along the perimeter of the Site.

0930 One concrete truck arrives on-site.

0940 Pouring of concrete in pre-placed forms commenced.

1000 Fence posts being placed in concrete following behind the concrete truck.

1030 Concrete truck leaves the site, fence posts are still being placed.

1330 Second truck with concrete arrives on-site and begins filling wooden forms. Fence posts are being placed. Chain link fencing is starting to be installed.

1430 Second truck leaves site, placing of fence posts and hanging of chain link fence continues.

1600 Clean-up of work is beginning.

1700 Inovateus off-site

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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/01/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/1/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/2/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	**S M T W T F S**
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus continues hanging fencing.

0930 One concrete truck arrives on-site.

0940 Pouring of concrete begins in pre-placed forms.

1000 Inovateus workers continue placing fence posts following behind the concrete truck.

1030 Concrete truck leaves the site, fence posts are still being placed.

1500 Second truck arrives on-site and begins filling wooden forms. Fence posts are being placed and fencing being installed.

1600 Second truck leaves site, placing of fence posts and hanging of fence continues.

1615 Clean-up of work is beginning.

1700 Inovateus off-site

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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/02/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP ☒ First-Aid Kit ☒ Eye wash bottle/station ☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/2/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/3/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Forms are being removed, fencing continues to be hung.

1000 Hanging of chain-link fence continues.

1300 Fence work still on-going along the southern border of the solar field.

1400 Clean up of work is beginning.

1500 Inovateus off-site

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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/03/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ **HASP** ☒ **First-Aid Kit** ☒ **Eye wash bottle/station** ☒ **Fire Extinguisher**

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/3/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/6/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S **M** T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus, Milestone	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus and milestone on-site

0830 Inovateus continues to install fencing along the perimeter of the solar field. Milestone using a skid steer to move stone piles and finishing work on the concrete pad installed two weeks ago.

1045 Milestone off-site stonework finished. Fence work is still on-going.

1300 Fence work continues concrete being poured along the northern side of the solar field into preplaced forms.

1430 Concrete truck leaves the site.

1500 Cleanup of work area begins.

1630 Inovateus off-site

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/06/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/6/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/7/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus, Milestone	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus continues to work on installing the fence along the site perimeter.

1000 Fence installation continues.

1300 Fence installation beginning along the northern border. Access gate was installed along the southern border of the solar field.

1500 Cleanup of work areas

1600 Inovateus off-site

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/07/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/7/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/8/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S M T **W** T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus, Milestone	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus continues to work on installing the fence along the site perimeter.

1000 Fence installation continues.

1300 Fence installation beginning along the northern border.

1500 Cleanup of work areas

1600 Inovateus off-site

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/08/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/8/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	5/9/2024
LaBella JOB NO.:	#2211232	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Inovateus, Milestone	**Sheet No.**	1 **of** 1
	Chris Finn- LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		60s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 Inovateus continues to work on installing the fence along the site perimeter.

1000 Fence installation continues.

1300 Fence installation beginning along the northern border. Access gate installed on the western side of the site. Broken fence gates were removed as part of the installation.

1500 Cleanup of work areas

1600 Inovateus off-site

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 05/09/2024 06:30

Description of Work: Oversight and CAMP Monitoring **Site Supervisor:** Chris Finn

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☐ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☐ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Chris Finn	Labella	Chris Finn	5/9/2024

DAILY INSPECTION REPORT

JOB TITLE: Elk Street Solar Telephone Pole Installation
DATE: 6/17/2024
LaBella JOB NO.: #2241401
Day of Week: S **M** T W T F S
CLIENT: Elk Street Commerce Park
I.R. No.: ----------
CONTRACTOR: Schuler Haas
Sheet No. 1 **of** 1

Chris Finn, Brent Miller, Andy Janik - LaBella

PHOTOS TAKEN: YES

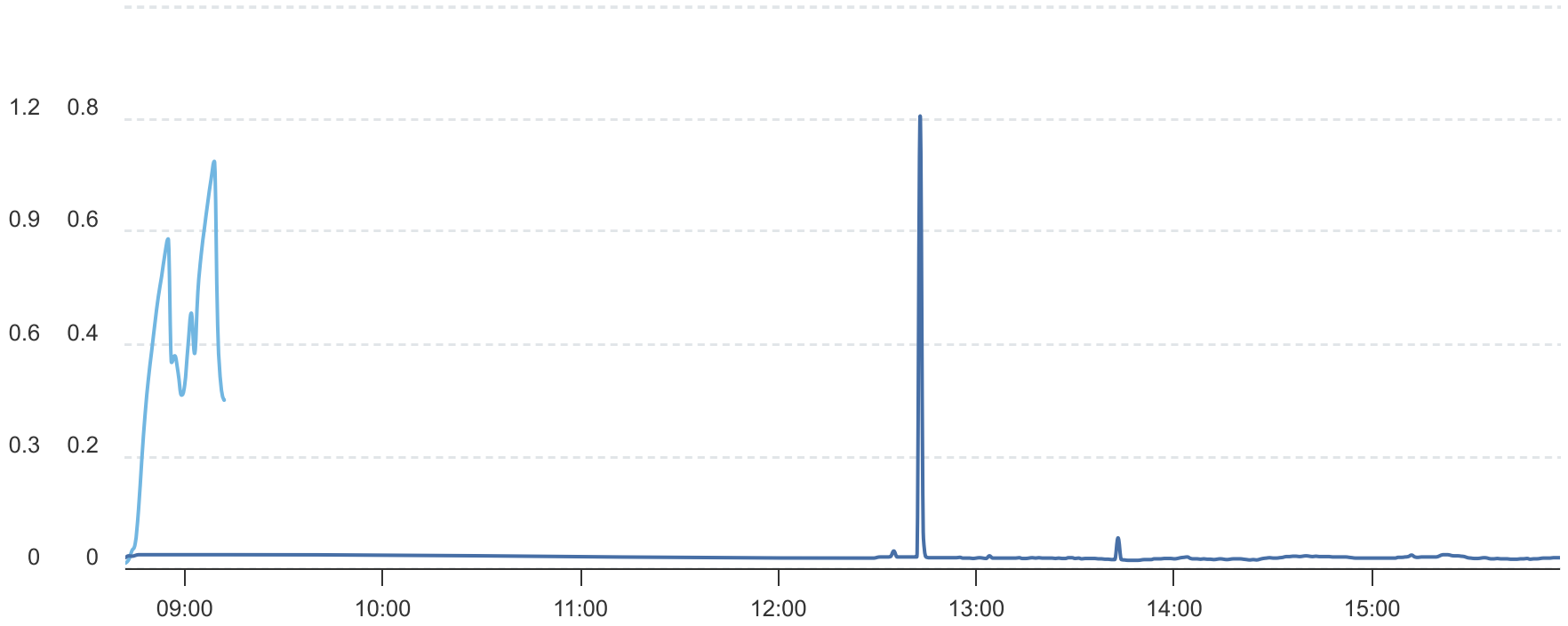
Weather:
Sun **AM** Overcast **PM**

Temperature:
80s **AM** 90s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site
0815 CAMP meters being put together, skid-steer and excavator being unloading.
1200 Schuler Haas on-site
1330 Auger work began. Schuler-Haas operating auger with oversight from LaBella. Auger depth to approximately 6 ft. Spoils being stockpiled on poly-sheeting.
1345 First utility pole installed and backfilled with stone.
1445 Second and third utility poles installed and backfilled with stone.
1500 Fourth and fifth utility poles installed. Subsurface work is finished for the day.
1515 LaBella covering spoil piles with poly-sheeting.
1600 CAMP meters taken down, Schuler Haas off-site, all spoil piles covered with poly sheeting.
1630 LaBella off-site

Mon. 17th of Jun 2024 12:00 AM - 16:03 PM
(GMT - 5:00) Eastern Time (US & Canada)



Name Labella Buffalo #1
S/N 2B504770
Description FA06180
Location 503 Elk St, Buffalo NY 14210 USA

Upwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 8:42 AM	0.028	0.009
6/17/2024, 8:43 AM	0.033	0.015
6/17/2024, 8:44 AM	0.032	0.031
6/17/2024, 8:45 AM	0.034	0.044
6/17/2024, 8:46 AM	0.036	0.104
6/17/2024, 8:47 AM	0.036	0.194
6/17/2024, 8:48 AM	0.036	0.274
6/17/2024, 8:49 AM	0.036	0.337
6/17/2024, 8:50 AM	0.036	0.387
6/17/2024, 8:51 AM	0.036	0.437
6/17/2024, 8:52 AM	0.036	0.483
6/17/2024, 8:53 AM	0.036	0.519
6/17/2024, 8:54 AM	0.036	0.559
6/17/2024, 8:55 AM	0.036	0.586
6/17/2024, 8:56 AM	0.036	0.366
6/17/2024, 8:57 AM	0.036	0.378
6/17/2024, 8:58 AM	0.036	0.348
6/17/2024, 8:59 AM	0.036	0.308
6/17/2024, 9:00 AM	0.036	0.326
6/17/2024, 9:01 AM	0.036	0.395
6/17/2024, 9:02 AM	0.036	0.454
6/17/2024, 9:03 AM	0.036	0.382
6/17/2024, 9:04 AM	0.036	0.492
6/17/2024, 9:05 AM	0.036	0.558
6/17/2024, 9:06 AM	0.036	0.606
6/17/2024, 9:07 AM	0.036	0.651
6/17/2024, 9:08 AM	0.036	0.692
6/17/2024, 9:09 AM	0.036	0.724
6/17/2024, 9:10 AM	0.036	0.432
6/17/2024, 9:11 AM	0.036	0.325
6/17/2024, 9:12 AM	0.036	0.299
6/17/2024, 12:29 PM	0.027	
6/17/2024, 12:30 PM	0.029	
6/17/2024, 12:31 PM	0.03	
6/17/2024, 12:32 PM	0.03	
6/17/2024, 12:33 PM	0.03	
6/17/2024, 12:34 PM	0.031	
6/17/2024, 12:35 PM	0.046	
6/17/2024, 12:36 PM	0.03	
6/17/2024, 12:37 PM	0.03	
6/17/2024, 12:38 PM	0.03	
6/17/2024, 12:39 PM	0.03	
6/17/2024, 12:40 PM	0.03	
6/17/2024, 12:41 PM	0.03	
6/17/2024, 12:42 PM	0.03	
6/17/2024, 12:43 PM	1.207	

Upwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 12:44 PM	0.079	
6/17/2024, 12:45 PM	0.029	
6/17/2024, 12:46 PM	0.028	
6/17/2024, 12:47 PM	0.028	
6/17/2024, 12:48 PM	0.028	
6/17/2024, 12:49 PM	0.028	
6/17/2024, 12:50 PM	0.028	
6/17/2024, 12:51 PM	0.028	
6/17/2024, 12:52 PM	0.028	
6/17/2024, 12:53 PM	0.028	
6/17/2024, 12:54 PM	0.028	
6/17/2024, 12:55 PM	0.029	
6/17/2024, 12:56 PM	0.027	
6/17/2024, 12:57 PM	0.027	
6/17/2024, 12:58 PM	0.027	
6/17/2024, 12:59 PM	0.026	
6/17/2024, 1:00 PM	0.027	
6/17/2024, 1:01 PM	0.028	
6/17/2024, 1:02 PM	0.027	
6/17/2024, 1:03 PM	0.026	
6/17/2024, 1:04 PM	0.033	
6/17/2024, 1:05 PM	0.027	
6/17/2024, 1:06 PM	0.027	
6/17/2024, 1:07 PM	0.027	
6/17/2024, 1:08 PM	0.027	
6/17/2024, 1:09 PM	0.027	
6/17/2024, 1:10 PM	0.027	
6/17/2024, 1:11 PM	0.027	
6/17/2024, 1:12 PM	0.027	
6/17/2024, 1:13 PM	0.028	
6/17/2024, 1:14 PM	0.026	
6/17/2024, 1:15 PM	0.026	
6/17/2024, 1:16 PM	0.027	
6/17/2024, 1:17 PM	0.028	
6/17/2024, 1:18 PM	0.027	
6/17/2024, 1:19 PM	0.028	
6/17/2024, 1:20 PM	0.027	
6/17/2024, 1:21 PM	0.027	
6/17/2024, 1:22 PM	0.027	
6/17/2024, 1:23 PM	0.027	
6/17/2024, 1:24 PM	0.026	
6/17/2024, 1:25 PM	0.027	
6/17/2024, 1:26 PM	0.026	
6/17/2024, 1:27 PM	0.026	
6/17/2024, 1:28 PM	0.028	
6/17/2024, 1:29 PM	0.028	

Upwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 1:30 PM	0.026	
6/17/2024, 1:31 PM	0.027	
6/17/2024, 1:32 PM	0.025	
6/17/2024, 1:33 PM	0.026	
6/17/2024, 1:34 PM	0.026	
6/17/2024, 1:35 PM	0.026	
6/17/2024, 1:36 PM	0.026	
6/17/2024, 1:37 PM	0.025	
6/17/2024, 1:38 PM	0.025	
6/17/2024, 1:39 PM	0.024	
6/17/2024, 1:40 PM	0.024	
6/17/2024, 1:41 PM	0.023	
6/17/2024, 1:42 PM	0.023	
6/17/2024, 1:43 PM	0.081	
6/17/2024, 1:44 PM	0.023	
6/17/2024, 1:45 PM	0.022	
6/17/2024, 1:46 PM	0.021	
6/17/2024, 1:47 PM	0.021	
6/17/2024, 1:48 PM	0.021	
6/17/2024, 1:49 PM	0.021	
6/17/2024, 1:50 PM	0.022	
6/17/2024, 1:51 PM	0.023	
6/17/2024, 1:52 PM	0.023	
6/17/2024, 1:53 PM	0.023	
6/17/2024, 1:54 PM	0.025	
6/17/2024, 1:55 PM	0.025	
6/17/2024, 1:56 PM	0.025	
6/17/2024, 1:57 PM	0.026	
6/17/2024, 1:58 PM	0.026	
6/17/2024, 1:59 PM	0.026	
6/17/2024, 2:00 PM	0.025	
6/17/2024, 2:01 PM	0.026	
6/17/2024, 2:02 PM	0.028	
6/17/2024, 2:03 PM	0.029	
6/17/2024, 2:04 PM	0.03	
6/17/2024, 2:05 PM	0.026	
6/17/2024, 2:06 PM	0.025	
6/17/2024, 2:07 PM	0.025	
6/17/2024, 2:08 PM	0.024	
6/17/2024, 2:09 PM	0.025	
6/17/2024, 2:10 PM	0.024	
6/17/2024, 2:11 PM	0.024	
6/17/2024, 2:12 PM	0.023	
6/17/2024, 2:13 PM	0.024	
6/17/2024, 2:14 PM	0.025	
6/17/2024, 2:15 PM	0.024	

Upwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 2:16 PM	0.023	
6/17/2024, 2:17 PM	0.024	
6/17/2024, 2:18 PM	0.025	
6/17/2024, 2:19 PM	0.025	
6/17/2024, 2:20 PM	0.025	
6/17/2024, 2:21 PM	0.024	
6/17/2024, 2:22 PM	0.023	
6/17/2024, 2:23 PM	0.022	
6/17/2024, 2:24 PM	0.023	
6/17/2024, 2:25 PM	0.022	
6/17/2024, 2:26 PM	0.024	
6/17/2024, 2:27 PM	0.026	
6/17/2024, 2:28 PM	0.027	
6/17/2024, 2:29 PM	0.028	
6/17/2024, 2:30 PM	0.027	
6/17/2024, 2:31 PM	0.027	
6/17/2024, 2:32 PM	0.028	
6/17/2024, 2:33 PM	0.029	
6/17/2024, 2:34 PM	0.031	
6/17/2024, 2:35 PM	0.031	
6/17/2024, 2:36 PM	0.032	
6/17/2024, 2:37 PM	0.032	
6/17/2024, 2:38 PM	0.031	
6/17/2024, 2:39 PM	0.032	
6/17/2024, 2:40 PM	0.033	
6/17/2024, 2:41 PM	0.032	
6/17/2024, 2:42 PM	0.031	
6/17/2024, 2:43 PM	0.032	
6/17/2024, 2:44 PM	0.031	
6/17/2024, 2:45 PM	0.031	
6/17/2024, 2:46 PM	0.031	
6/17/2024, 2:47 PM	0.031	
6/17/2024, 2:48 PM	0.03	
6/17/2024, 2:49 PM	0.03	
6/17/2024, 2:50 PM	0.03	
6/17/2024, 2:51 PM	0.03	
6/17/2024, 2:52 PM	0.03	
6/17/2024, 2:53 PM	0.029	
6/17/2024, 2:54 PM	0.028	
6/17/2024, 2:55 PM	0.027	
6/17/2024, 2:56 PM	0.027	
6/17/2024, 2:57 PM	0.027	
6/17/2024, 2:58 PM	0.027	
6/17/2024, 2:59 PM	0.027	
6/17/2024, 3:00 PM	0.027	
6/17/2024, 3:01 PM	0.027	

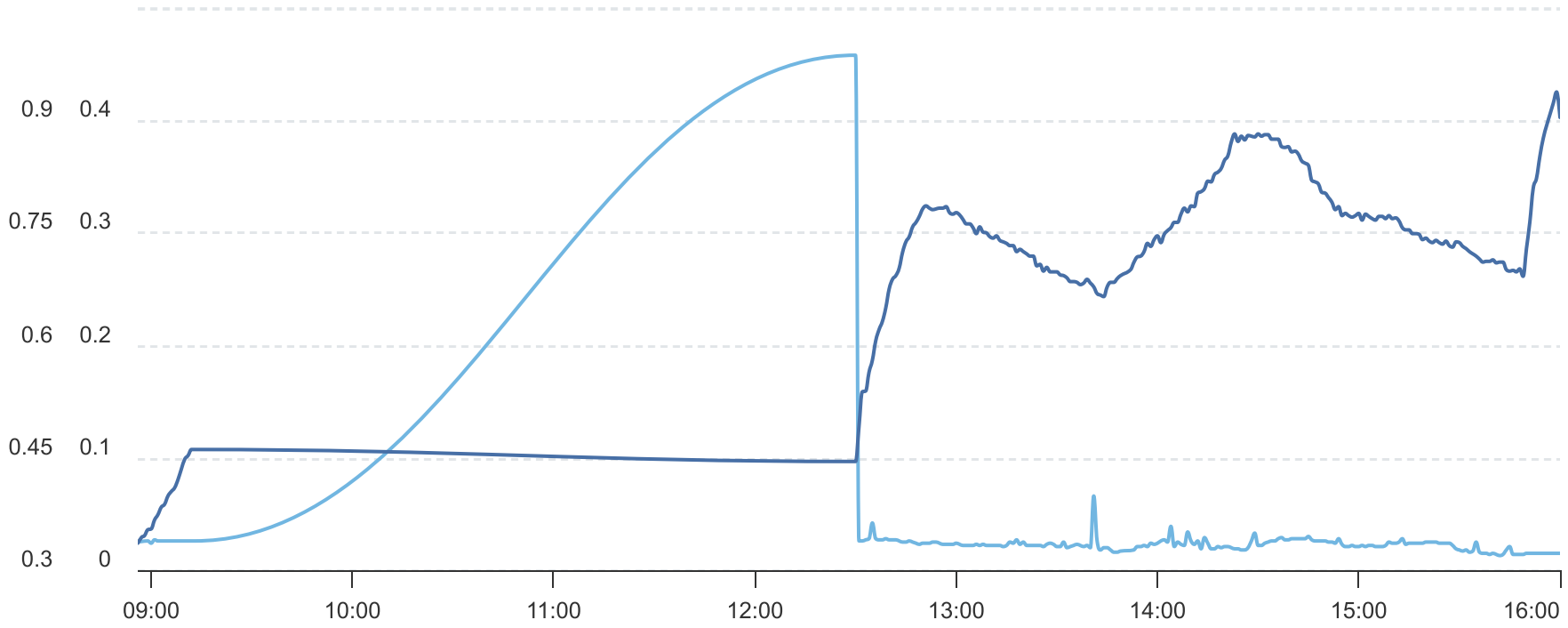
Upwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 3:02 PM	0.027	
6/17/2024, 3:03 PM	0.027	
6/17/2024, 3:04 PM	0.027	
6/17/2024, 3:05 PM	0.027	
6/17/2024, 3:06 PM	0.027	
6/17/2024, 3:07 PM	0.027	
6/17/2024, 3:08 PM	0.029	
6/17/2024, 3:09 PM	0.029	
6/17/2024, 3:10 PM	0.03	
6/17/2024, 3:11 PM	0.031	
6/17/2024, 3:12 PM	0.035	
6/17/2024, 3:13 PM	0.03	
6/17/2024, 3:14 PM	0.029	
6/17/2024, 3:15 PM	0.03	
6/17/2024, 3:16 PM	0.03	
6/17/2024, 3:17 PM	0.03	
6/17/2024, 3:18 PM	0.03	
6/17/2024, 3:19 PM	0.03	
6/17/2024, 3:20 PM	0.031	
6/17/2024, 3:21 PM	0.035	
6/17/2024, 3:22 PM	0.036	
6/17/2024, 3:23 PM	0.036	
6/17/2024, 3:24 PM	0.034	
6/17/2024, 3:25 PM	0.033	
6/17/2024, 3:26 PM	0.033	
6/17/2024, 3:27 PM	0.032	
6/17/2024, 3:28 PM	0.031	
6/17/2024, 3:29 PM	0.028	
6/17/2024, 3:30 PM	0.027	
6/17/2024, 3:31 PM	0.026	
6/17/2024, 3:32 PM	0.026	
6/17/2024, 3:33 PM	0.027	
6/17/2024, 3:34 PM	0.028	
6/17/2024, 3:35 PM	0.027	
6/17/2024, 3:36 PM	0.025	
6/17/2024, 3:37 PM	0.025	
6/17/2024, 3:38 PM	0.026	
6/17/2024, 3:39 PM	0.025	
6/17/2024, 3:40 PM	0.025	
6/17/2024, 3:41 PM	0.025	
6/17/2024, 3:42 PM	0.024	
6/17/2024, 3:43 PM	0.024	
6/17/2024, 3:44 PM	0.024	
6/17/2024, 3:45 PM	0.025	
6/17/2024, 3:46 PM	0.025	
6/17/2024, 3:47 PM	0.026	

Upwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 3:48 PM	0.024	
6/17/2024, 3:49 PM	0.025	
6/17/2024, 3:50 PM	0.025	
6/17/2024, 3:51 PM	0.026	
6/17/2024, 3:52 PM	0.027	
6/17/2024, 3:53 PM	0.027	
6/17/2024, 3:54 PM	0.027	
6/17/2024, 3:55 PM	0.028	
6/17/2024, 3:56 PM	0.028	
6/17/2024, 3:57 PM	0.028	

Mon. 17th of Jun 2024 12:00 AM - 16:05 PM
(GMT - 5:00) Eastern Time (US & Canada)



Mass Conc. Total, ms/m³

MIN 0.013 AVG 0.025 MAX 0.458

VOC , ppm

MIN 0.336 AVG 0.728 MAX 0.938

Name Labella Buffalo #2
S/N 2B553545
Description FA06182
Location 590 Elk St, Buffalo NY 14210 USA

Downwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 8:56 AM	0.025	0.336
6/17/2024, 8:59 AM	0.026	0.354
6/17/2024, 9:00 AM	0.024	0.355
6/17/2024, 9:01 AM	0.027	0.367
6/17/2024, 9:02 AM	0.026	0.374
6/17/2024, 9:03 AM	0.026	0.384
6/17/2024, 9:04 AM	0.026	0.388
6/17/2024, 9:05 AM	0.026	0.399
6/17/2024, 9:06 AM	0.026	0.405
6/17/2024, 9:07 AM	0.026	0.41
6/17/2024, 9:08 AM	0.026	0.421
6/17/2024, 9:09 AM	0.026	0.435
6/17/2024, 9:10 AM	0.026	0.448
6/17/2024, 9:11 AM	0.026	0.453
6/17/2024, 9:12 AM	0.026	0.461
6/17/2024, 9:13 AM	0.026	
6/17/2024, 12:30 PM	0.458	0.445
6/17/2024, 12:31 PM	0.026	0.491
6/17/2024, 12:32 PM	0.026	0.538
6/17/2024, 12:33 PM	0.027	0.539
6/17/2024, 12:34 PM	0.028	0.564
6/17/2024, 12:35 PM	0.042	0.58
6/17/2024, 12:36 PM	0.028	0.606
6/17/2024, 12:37 PM	0.027	0.621
6/17/2024, 12:38 PM	0.027	0.632
6/17/2024, 12:39 PM	0.028	0.65
6/17/2024, 12:40 PM	0.027	0.675
6/17/2024, 12:41 PM	0.027	0.688
6/17/2024, 12:42 PM	0.027	0.693
6/17/2024, 12:43 PM	0.026	0.703
6/17/2024, 12:44 PM	0.025	0.724
6/17/2024, 12:45 PM	0.025	0.738
6/17/2024, 12:46 PM	0.026	0.745
6/17/2024, 12:47 PM	0.025	0.758
6/17/2024, 12:48 PM	0.024	0.764
6/17/2024, 12:49 PM	0.023	0.772
6/17/2024, 12:50 PM	0.024	0.782
6/17/2024, 12:51 PM	0.024	0.786
6/17/2024, 12:52 PM	0.024	0.783
6/17/2024, 12:53 PM	0.025	0.781
6/17/2024, 12:54 PM	0.025	0.782
6/17/2024, 12:55 PM	0.024	0.783
6/17/2024, 12:56 PM	0.023	0.783
6/17/2024, 12:57 PM	0.023	0.785
6/17/2024, 12:58 PM	0.023	0.777
6/17/2024, 12:59 PM	0.023	0.775

Downwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 1:00 PM	0.024	0.777
6/17/2024, 1:01 PM	0.023	0.774
6/17/2024, 1:02 PM	0.022	0.768
6/17/2024, 1:03 PM	0.022	0.762
6/17/2024, 1:04 PM	0.022	0.762
6/17/2024, 1:05 PM	0.022	0.757
6/17/2024, 1:06 PM	0.023	0.749
6/17/2024, 1:07 PM	0.022	0.758
6/17/2024, 1:08 PM	0.023	0.751
6/17/2024, 1:09 PM	0.022	0.75
6/17/2024, 1:10 PM	0.022	0.745
6/17/2024, 1:11 PM	0.022	0.743
6/17/2024, 1:12 PM	0.022	0.746
6/17/2024, 1:13 PM	0.022	0.74
6/17/2024, 1:14 PM	0.021	0.738
6/17/2024, 1:15 PM	0.022	0.736
6/17/2024, 1:16 PM	0.025	0.733
6/17/2024, 1:17 PM	0.024	0.733
6/17/2024, 1:18 PM	0.027	0.725
6/17/2024, 1:19 PM	0.023	0.728
6/17/2024, 1:20 PM	0.025	0.725
6/17/2024, 1:21 PM	0.022	0.722
6/17/2024, 1:22 PM	0.022	0.719
6/17/2024, 1:23 PM	0.022	0.719
6/17/2024, 1:24 PM	0.022	0.706
6/17/2024, 1:25 PM	0.022	0.708
6/17/2024, 1:26 PM	0.021	0.699
6/17/2024, 1:27 PM	0.023	0.704
6/17/2024, 1:28 PM	0.024	0.698
6/17/2024, 1:29 PM	0.023	0.698
6/17/2024, 1:30 PM	0.021	0.698
6/17/2024, 1:31 PM	0.021	0.694
6/17/2024, 1:32 PM	0.025	0.693
6/17/2024, 1:33 PM	0.02	0.69
6/17/2024, 1:34 PM	0.021	0.685
6/17/2024, 1:35 PM	0.022	0.685
6/17/2024, 1:36 PM	0.023	0.684
6/17/2024, 1:37 PM	0.022	0.681
6/17/2024, 1:38 PM	0.021	0.683
6/17/2024, 1:39 PM	0.022	0.688
6/17/2024, 1:40 PM	0.02	0.683
6/17/2024, 1:41 PM	0.066	0.678
6/17/2024, 1:42 PM	0.026	0.669
6/17/2024, 1:43 PM	0.018	0.667
6/17/2024, 1:44 PM	0.02	0.665
6/17/2024, 1:45 PM	0.02	0.678

Downwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 1:46 PM	0.018	0.684
6/17/2024, 1:47 PM	0.016	0.684
6/17/2024, 1:48 PM	0.016	0.689
6/17/2024, 1:49 PM	0.017	0.693
6/17/2024, 1:53 PM	0.018	0.711
6/17/2024, 1:54 PM	0.021	0.718
6/17/2024, 1:55 PM	0.021	0.719
6/17/2024, 1:56 PM	0.022	0.725
6/17/2024, 1:57 PM	0.021	0.736
6/17/2024, 1:58 PM	0.024	0.732
6/17/2024, 1:59 PM	0.023	0.741
6/17/2024, 2:00 PM	0.024	0.746
6/17/2024, 2:01 PM	0.026	0.737
6/17/2024, 2:02 PM	0.027	0.748
6/17/2024, 2:03 PM	0.025	0.753
6/17/2024, 2:04 PM	0.039	0.757
6/17/2024, 2:05 PM	0.021	0.764
6/17/2024, 2:06 PM	0.025	0.764
6/17/2024, 2:07 PM	0.023	0.775
6/17/2024, 2:08 PM	0.022	0.783
6/17/2024, 2:09 PM	0.034	0.778
6/17/2024, 2:10 PM	0.026	0.786
6/17/2024, 2:11 PM	0.023	0.785
6/17/2024, 2:12 PM	0.026	0.803
6/17/2024, 2:13 PM	0.019	0.805
6/17/2024, 2:14 PM	0.029	0.809
6/17/2024, 2:15 PM	0.024	0.819
6/17/2024, 2:16 PM	0.019	0.818
6/17/2024, 2:17 PM	0.019	0.828
6/17/2024, 2:18 PM	0.021	0.831
6/17/2024, 2:19 PM	0.02	0.836
6/17/2024, 2:20 PM	0.021	0.847
6/17/2024, 2:21 PM	0.021	0.853
6/17/2024, 2:22 PM	0.02	0.871
6/17/2024, 2:23 PM	0.019	0.882
6/17/2024, 2:24 PM	0.019	0.872
6/17/2024, 2:25 PM	0.018	0.879
6/17/2024, 2:26 PM	0.018	0.874
6/17/2024, 2:27 PM	0.02	0.88
6/17/2024, 2:28 PM	0.026	0.879
6/17/2024, 2:29 PM	0.033	0.878
6/17/2024, 2:30 PM	0.022	0.882
6/17/2024, 2:31 PM	0.022	0.879
6/17/2024, 2:32 PM	0.024	0.881
6/17/2024, 2:33 PM	0.025	0.881
6/17/2024, 2:34 PM	0.026	0.875

Downwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 2:35 PM	0.026	0.875
6/17/2024, 2:36 PM	0.028	0.875
6/17/2024, 2:37 PM	0.029	0.865
6/17/2024, 2:38 PM	0.027	0.864
6/17/2024, 2:39 PM	0.027	0.865
6/17/2024, 2:40 PM	0.028	0.858
6/17/2024, 2:41 PM	0.028	0.859
6/17/2024, 2:42 PM	0.028	0.855
6/17/2024, 2:43 PM	0.028	0.846
6/17/2024, 2:44 PM	0.028	0.843
6/17/2024, 2:45 PM	0.03	0.84
6/17/2024, 2:46 PM	0.027	0.82
6/17/2024, 2:47 PM	0.026	0.818
6/17/2024, 2:48 PM	0.026	0.815
6/17/2024, 2:49 PM	0.026	0.804
6/17/2024, 2:50 PM	0.026	0.803
6/17/2024, 2:51 PM	0.025	0.797
6/17/2024, 2:52 PM	0.025	0.791
6/17/2024, 2:53 PM	0.024	0.781
6/17/2024, 2:54 PM	0.028	0.785
6/17/2024, 2:55 PM	0.023	0.773
6/17/2024, 2:56 PM	0.021	0.776
6/17/2024, 2:57 PM	0.021	0.773
6/17/2024, 2:58 PM	0.022	0.771
6/17/2024, 2:59 PM	0.021	0.773
6/17/2024, 3:00 PM	0.021	0.776
6/17/2024, 3:01 PM	0.022	0.767
6/17/2024, 3:02 PM	0.021	0.775
6/17/2024, 3:03 PM	0.022	0.772
6/17/2024, 3:04 PM	0.022	0.769
6/17/2024, 3:05 PM	0.021	0.767
6/17/2024, 3:06 PM	0.021	0.772
6/17/2024, 3:07 PM	0.021	0.772
6/17/2024, 3:08 PM	0.022	0.769
6/17/2024, 3:09 PM	0.025	0.773
6/17/2024, 3:10 PM	0.024	0.769
6/17/2024, 3:11 PM	0.024	0.77
6/17/2024, 3:12 PM	0.025	0.766
6/17/2024, 3:13 PM	0.028	0.757
6/17/2024, 3:14 PM	0.023	0.754
6/17/2024, 3:15 PM	0.024	0.754
6/17/2024, 3:16 PM	0.024	0.749
6/17/2024, 3:17 PM	0.024	0.749
6/17/2024, 3:18 PM	0.024	0.748
6/17/2024, 3:19 PM	0.024	0.741
6/17/2024, 3:20 PM	0.025	0.743

Downwind CAMP Data

Timestamp	Mass Conc. Total, mg/m³	VOC, ppm
6/17/2024, 3:21 PM	0.025	0.739
6/17/2024, 3:22 PM	0.025	0.737
6/17/2024, 3:23 PM	0.025	0.74
6/17/2024, 3:24 PM	0.024	0.737
6/17/2024, 3:25 PM	0.024	0.735
6/17/2024, 3:26 PM	0.024	0.739
6/17/2024, 3:27 PM	0.024	0.733
6/17/2024, 3:28 PM	0.022	0.731
6/17/2024, 3:29 PM	0.019	0.738
6/17/2024, 3:30 PM	0.018	0.737
6/17/2024, 3:31 PM	0.017	0.732
6/17/2024, 3:32 PM	0.018	0.729
6/17/2024, 3:33 PM	0.016	0.725
6/17/2024, 3:34 PM	0.017	0.722
6/17/2024, 3:35 PM	0.025	0.719
6/17/2024, 3:36 PM	0.016	0.715
6/17/2024, 3:37 PM	0.015	0.711
6/17/2024, 3:38 PM	0.015	0.712
6/17/2024, 3:39 PM	0.014	0.712
6/17/2024, 3:40 PM	0.015	0.714
6/17/2024, 3:41 PM	0.014	0.71
6/17/2024, 3:42 PM	0.013	0.711
6/17/2024, 3:43 PM	0.014	0.711
6/17/2024, 3:44 PM	0.018	0.701
6/17/2024, 3:45 PM	0.021	0.699
6/17/2024, 3:46 PM	0.014	0.7
6/17/2024, 3:47 PM	0.014	0.698
6/17/2024, 3:48 PM	0.014	0.702
6/17/2024, 3:49 PM	0.014	0.692
6/17/2024, 3:50 PM	0.015	0.729
6/17/2024, 3:51 PM	0.015	0.764
6/17/2024, 3:52 PM	0.015	0.809
6/17/2024, 3:53 PM	0.015	0.823
6/17/2024, 3:54 PM	0.015	0.852
6/17/2024, 3:55 PM	0.015	0.876
6/17/2024, 3:56 PM	0.015	0.893
6/17/2024, 3:57 PM	0.015	0.908
6/17/2024, 3:58 PM	0.015	0.923
6/17/2024, 3:59 PM	0.015	0.938
6/17/2024, 4:00 PM	0.015	0.904
6/17/2024, 8:57 AM		0.344
6/17/2024, 8:58 AM		0.346
6/17/2024, 1:52 PM		0.701

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/17/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/17/2024
Andrew Janik	Labella	Andrew Janik	6/17/2024
Chris Finn	Labella	Chris Finn	6/17/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Telephone Pole Installation	**DATE:**	6/18/2024
LaBella JOB NO.:	#2241401	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Schuler Haas	**Sheet No.**	1 **of** 1
	Chris Finn, Andy Janik, Ben Napieralski - LaBella		
	Brent Miller - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		T-Storms **AM**	Sun **PM**
		Temperature:	
		80s **AM**	90s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site

0810 No work started due to thunderstorms.

0945 Thunderstorms passed CAMP meters started. Schular Haas began work installing new transformers and power lines.

1000 Issue with upwind CAMP meter (LaBella 1) new meter ordered no data collected for upwind.

1030 LaBella began laying out trench along the eastern property boundary for underground conduit. Trench to be approximately 8-inches deep or to demarcation layer whichever is encountered first and approximately 24” wide.

1045 Trench excavation began.

12:00 Trench work continues approximately half of the trench has been completed.

1400 Trench work is completed.

1430 Clean-up along trench edges to allow bucket trucks to pass through is being completed by LaBella.

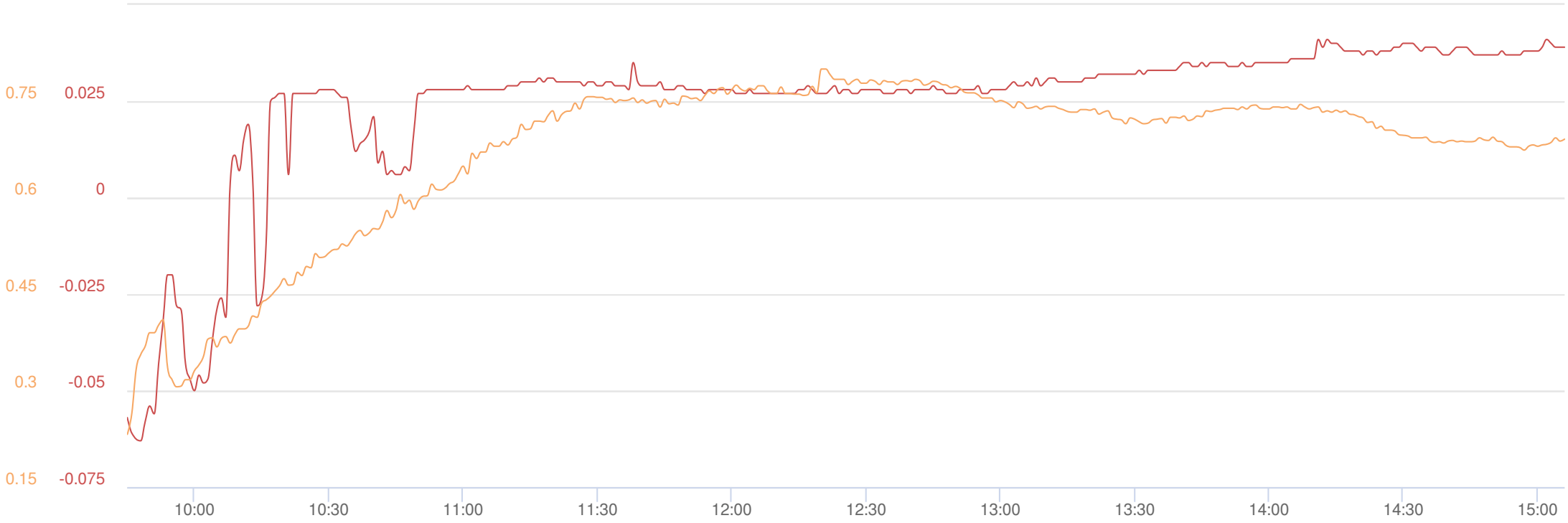
1500 Subsurface work completed for the day. CAMP meters taken down.

1515 LaBella ordering materials needed for concrete forms.

1530 CAMP meters taken down.

1600 LaBella off-site.

Tue, 18th of Jun 2024, 0:00:00 – 15:07:08
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.063	0.024	0.041

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.232	0.672	0.8

Name	Labella Buffalo #2
S/N	2B553545
Description	FA06182
Location	590 Elk St, Buffalo, NY 14210, USA

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Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 9:43	0.232	-0.057
6/18/2024 9:44	0.264	-0.061
6/18/2024 9:47	0.334	
6/18/2024 9:48	0.356	-0.063
6/18/2024 9:49	0.369	-0.058
6/18/2024 9:50	0.39	-0.054
6/18/2024 9:51	0.39	-0.056
6/18/2024 9:52	0.402	-0.043
6/18/2024 9:53	0.41	-0.032
6/18/2024 9:54	0.336	-0.02
6/18/2024 9:55	0.317	-0.02
6/18/2024 9:56	0.306	-0.028
6/18/2024 9:57	0.307	-0.029
6/18/2024 9:58	0.317	-0.043
6/18/2024 9:59	0.317	-0.047
6/18/2024 10:00	0.331	-0.05
6/18/2024 10:01	0.34	-0.046
6/18/2024 10:02	0.353	-0.048
6/18/2024 10:03	0.38	-0.047
6/18/2024 10:04	0.382	-0.037
6/18/2024 10:05	0.368	-0.029
6/18/2024 10:06	0.381	-0.026
6/18/2024 10:07	0.384	-0.031
6/18/2024 10:08	0.374	0.004
6/18/2024 10:09	0.387	0.011
6/18/2024 10:10	0.396	0.007
6/18/2024 10:11	0.396	0.015
6/18/2024 10:12	0.4	0.019
6/18/2024 10:13	0.416	0.005
6/18/2024 10:14	0.414	-0.028
6/18/2024 10:15	0.436	-0.026
6/18/2024 10:16	0.441	-0.012
6/18/2024 10:17	0.447	0.025
6/18/2024 10:18	0.455	0.026
6/18/2024 10:19	0.463	0.027
6/18/2024 10:20	0.474	0.027
6/18/2024 10:21	0.464	0.006
6/18/2024 10:22	0.465	0.027
6/18/2024 10:23	0.484	0.027
6/18/2024 10:24	0.479	0.027
6/18/2024 10:25	0.493	0.027

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 10:26	0.491	0.027
6/18/2024 10:27	0.513	0.027
6/18/2024 10:28	0.507	0.028
6/18/2024 10:29	0.508	0.028
6/18/2024 10:30	0.514	0.028
6/18/2024 10:31	0.519	0.028
6/18/2024 10:32	0.52	0.027
6/18/2024 10:33	0.528	0.026
6/18/2024 10:34	0.525	0.026
6/18/2024 10:35	0.533	0.018
6/18/2024 10:36	0.544	0.012
6/18/2024 10:37	0.549	0.014
6/18/2024 10:38	0.541	0.015
6/18/2024 10:39	0.545	0.017
6/18/2024 10:40	0.552	0.021
6/18/2024 10:41	0.551	0.009
6/18/2024 10:42	0.562	0.012
6/18/2024 10:43	0.58	0.006
6/18/2024 10:44	0.569	0.007
6/18/2024 10:45	0.58	0.006
6/18/2024 10:46	0.605	0.006
6/18/2024 10:47	0.591	0.008
6/18/2024 10:48	0.596	0.007
6/18/2024 10:49	0.582	0.017
6/18/2024 10:50	0.595	0.027
6/18/2024 10:51	0.602	0.027
6/18/2024 10:52	0.603	0.028
6/18/2024 10:53	0.621	0.028
6/18/2024 10:54	0.613	0.028
6/18/2024 10:55	0.612	0.028
6/18/2024 10:56	0.615	0.028
6/18/2024 10:57	0.622	0.028
6/18/2024 10:58	0.626	0.028
6/18/2024 10:59	0.638	0.028
6/18/2024 11:00	0.649	0.028
6/18/2024 11:01	0.637	0.029
6/18/2024 11:02	0.669	0.028
6/18/2024 11:03	0.661	0.028
6/18/2024 11:04	0.671	0.028
6/18/2024 11:05	0.671	0.028
6/18/2024 11:06	0.685	0.028

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 11:07	0.68	0.028
6/18/2024 11:08	0.68	0.028
6/18/2024 11:09	0.687	0.028
6/18/2024 11:10	0.682	0.029
6/18/2024 11:11	0.691	0.029
6/18/2024 11:12	0.694	0.029
6/18/2024 11:13	0.714	0.03
6/18/2024 11:14	0.706	0.03
6/18/2024 11:15	0.707	0.03
6/18/2024 11:16	0.719	0.03
6/18/2024 11:17	0.719	0.031
6/18/2024 11:18	0.718	0.03
6/18/2024 11:19	0.728	0.031
6/18/2024 11:20	0.735	0.031
6/18/2024 11:21	0.719	0.03
6/18/2024 11:22	0.729	0.03
6/18/2024 11:23	0.734	0.03
6/18/2024 11:24	0.735	0.03
6/18/2024 11:25	0.747	0.03
6/18/2024 11:26	0.738	0.03
6/18/2024 11:27	0.753	0.029
6/18/2024 11:28	0.757	0.03
6/18/2024 11:29	0.757	0.03
6/18/2024 11:30	0.756	0.029
6/18/2024 11:31	0.756	0.029
6/18/2024 11:32	0.753	0.03
6/18/2024 11:33	0.754	0.03
6/18/2024 11:34	0.748	0.029
6/18/2024 11:35	0.752	0.029
6/18/2024 11:36	0.751	0.029
6/18/2024 11:37	0.752	0.028
6/18/2024 11:38	0.755	0.035
6/18/2024 11:39	0.748	0.03
6/18/2024 11:40	0.752	0.029
6/18/2024 11:41	0.747	0.029
6/18/2024 11:42	0.75	0.029
6/18/2024 11:43	0.751	0.029
6/18/2024 11:44	0.741	0.03
6/18/2024 11:45	0.753	0.028
6/18/2024 11:46	0.746	0.028
6/18/2024 11:47	0.747	0.028

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 11:48	0.744	0.029
6/18/2024 11:49	0.758	0.029
6/18/2024 11:50	0.757	0.028
6/18/2024 11:51	0.754	0.028
6/18/2024 11:52	0.755	0.028
6/18/2024 11:53	0.751	0.028
6/18/2024 11:54	0.759	0.027
6/18/2024 11:55	0.766	0.028
6/18/2024 11:56	0.762	0.028
6/18/2024 11:57	0.769	0.028
6/18/2024 11:58	0.771	0.028
6/18/2024 11:59	0.761	0.028
6/18/2024 12:00	0.768	0.028
6/18/2024 12:01	0.775	0.027
6/18/2024 12:02	0.769	0.027
6/18/2024 12:03	0.766	0.027
6/18/2024 12:04	0.77	0.028
6/18/2024 12:05	0.768	0.027
6/18/2024 12:06	0.774	0.027
6/18/2024 12:07	0.774	0.027
6/18/2024 12:08	0.766	0.027
6/18/2024 12:09	0.762	0.027
6/18/2024 12:10	0.762	0.027
6/18/2024 12:11	0.772	0.027
6/18/2024 12:12	0.762	0.027
6/18/2024 12:13	0.762	0.027
6/18/2024 12:14	0.761	0.027
6/18/2024 12:15	0.761	0.028
6/18/2024 12:16	0.759	0.028
6/18/2024 12:17	0.76	0.029
6/18/2024 12:18	0.773	0.028
6/18/2024 12:19	0.763	0.027
6/18/2024 12:20	0.8	0.027
6/18/2024 12:21	0.8	0.027
6/18/2024 12:22	0.791	0.028
6/18/2024 12:23	0.784	0.029
6/18/2024 12:24	0.784	0.027
6/18/2024 12:25	0.784	0.028
6/18/2024 12:26	0.776	0.028
6/18/2024 12:27	0.781	0.027
6/18/2024 12:28	0.784	0.027

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 12:29	0.778	0.028
6/18/2024 12:30	0.778	0.028
6/18/2024 12:31	0.783	0.028
6/18/2024 12:32	0.781	0.028
6/18/2024 12:33	0.776	0.028
6/18/2024 12:34	0.782	0.027
6/18/2024 12:35	0.78	0.027
6/18/2024 12:36	0.78	0.027
6/18/2024 12:37	0.776	0.028
6/18/2024 12:38	0.781	0.028
6/18/2024 12:39	0.782	0.028
6/18/2024 12:40	0.781	0.027
6/18/2024 12:41	0.784	0.028
6/18/2024 12:42	0.782	0.028
6/18/2024 12:43	0.775	0.028
6/18/2024 12:44	0.777	0.028
6/18/2024 12:45	0.781	0.029
6/18/2024 12:46	0.78	0.028
6/18/2024 12:47	0.776	0.028
6/18/2024 12:48	0.775	0.027
6/18/2024 12:49	0.771	0.027
6/18/2024 12:50	0.773	0.027
6/18/2024 12:51	0.77	0.028
6/18/2024 12:52	0.764	0.028
6/18/2024 12:53	0.763	0.028
6/18/2024 12:54	0.763	0.028
6/18/2024 12:55	0.76	0.029
6/18/2024 12:56	0.755	0.027
6/18/2024 12:57	0.755	0.027
6/18/2024 12:58	0.755	0.028
6/18/2024 12:59	0.749	0.028
6/18/2024 13:00	0.751	0.028
6/18/2024 13:01	0.749	0.028
6/18/2024 13:02	0.745	0.029
6/18/2024 13:03	0.74	0.03
6/18/2024 13:04	0.749	0.029
6/18/2024 13:05	0.746	0.029
6/18/2024 13:06	0.739	0.03
6/18/2024 13:07	0.74	0.029
6/18/2024 13:08	0.742	0.031
6/18/2024 13:09	0.738	0.029

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 13:10	0.741	0.03
6/18/2024 13:11	0.742	0.031
6/18/2024 13:12	0.742	0.031
6/18/2024 13:13	0.739	0.03
6/18/2024 13:14	0.737	0.03
6/18/2024 13:15	0.734	0.03
6/18/2024 13:16	0.733	0.03
6/18/2024 13:17	0.733	0.03
6/18/2024 13:18	0.737	0.03
6/18/2024 13:19	0.737	0.031
6/18/2024 13:20	0.736	0.031
6/18/2024 13:21	0.738	0.031
6/18/2024 13:22	0.73	0.032
6/18/2024 13:23	0.733	0.032
6/18/2024 13:24	0.735	0.032
6/18/2024 13:25	0.724	0.032
6/18/2024 13:26	0.722	0.032
6/18/2024 13:27	0.721	0.032
6/18/2024 13:28	0.715	0.032
6/18/2024 13:29	0.724	0.032
6/18/2024 13:30	0.722	0.032
6/18/2024 13:31	0.718	0.033
6/18/2024 13:32	0.715	0.032
6/18/2024 13:33	0.716	0.033
6/18/2024 13:34	0.721	0.033
6/18/2024 13:35	0.722	0.033
6/18/2024 13:36	0.723	0.033
6/18/2024 13:37	0.716	0.033
6/18/2024 13:38	0.725	0.033
6/18/2024 13:39	0.725	0.033
6/18/2024 13:40	0.724	0.034
6/18/2024 13:41	0.727	0.035
6/18/2024 13:42	0.72	0.035
6/18/2024 13:43	0.722	0.034
6/18/2024 13:44	0.727	0.034
6/18/2024 13:45	0.726	0.035
6/18/2024 13:46	0.735	0.034
6/18/2024 13:47	0.734	0.035
6/18/2024 13:48	0.736	0.035
6/18/2024 13:49	0.737	0.035
6/18/2024 13:50	0.739	0.035

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 13:51	0.739	0.034
6/18/2024 13:52	0.739	0.034
6/18/2024 13:53	0.737	0.034
6/18/2024 13:54	0.741	0.035
6/18/2024 13:55	0.738	0.034
6/18/2024 13:56	0.743	0.034
6/18/2024 13:57	0.744	0.035
6/18/2024 13:58	0.739	0.035
6/18/2024 13:59	0.738	0.035
6/18/2024 14:00	0.738	0.035
6/18/2024 14:01	0.741	0.035
6/18/2024 14:02	0.741	0.035
6/18/2024 14:03	0.74	0.035
6/18/2024 14:04	0.741	0.035
6/18/2024 14:05	0.738	0.036
6/18/2024 14:06	0.738	0.036
6/18/2024 14:07	0.745	0.036
6/18/2024 14:08	0.741	0.036
6/18/2024 14:09	0.738	0.036
6/18/2024 14:10	0.74	0.036
6/18/2024 14:11	0.741	0.041
6/18/2024 14:12	0.733	0.039
6/18/2024 14:13	0.735	0.041
6/18/2024 14:14	0.733	0.04
6/18/2024 14:15	0.736	0.04
6/18/2024 14:16	0.733	0.039
6/18/2024 14:17	0.735	0.038
6/18/2024 14:18	0.73	0.038
6/18/2024 14:19	0.729	0.038
6/18/2024 14:20	0.726	0.038
6/18/2024 14:21	0.724	0.037
6/18/2024 14:22	0.717	0.038
6/18/2024 14:23	0.718	0.038
6/18/2024 14:24	0.708	0.037
6/18/2024 14:25	0.711	0.038
6/18/2024 14:26	0.705	0.038
6/18/2024 14:27	0.705	0.038
6/18/2024 14:28	0.704	0.039
6/18/2024 14:29	0.698	0.039
6/18/2024 14:30	0.697	0.04
6/18/2024 14:31	0.696	0.04

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/18/2024 14:32	0.693	0.04
6/18/2024 14:33	0.693	0.039
6/18/2024 14:34	0.693	0.038
6/18/2024 14:35	0.694	0.039
6/18/2024 14:36	0.688	0.039
6/18/2024 14:37	0.686	0.039
6/18/2024 14:38	0.687	0.038
6/18/2024 14:39	0.685	0.037
6/18/2024 14:40	0.688	0.037
6/18/2024 14:41	0.689	0.038
6/18/2024 14:42	0.687	0.039
6/18/2024 14:43	0.688	0.039
6/18/2024 14:44	0.687	0.039
6/18/2024 14:45	0.687	0.038
6/18/2024 14:46	0.688	0.037
6/18/2024 14:47	0.693	0.037
6/18/2024 14:48	0.69	0.037
6/18/2024 14:49	0.689	0.037
6/18/2024 14:50	0.694	0.037
6/18/2024 14:51	0.688	0.037
6/18/2024 14:52	0.687	0.038
6/18/2024 14:53	0.681	0.037
6/18/2024 14:54	0.679	0.037
6/18/2024 14:55	0.679	0.037
6/18/2024 14:56	0.678	0.037
6/18/2024 14:57	0.674	0.038
6/18/2024 14:58	0.68	0.038
6/18/2024 14:59	0.682	0.038
6/18/2024 15:00	0.68	0.038
6/18/2024 15:01	0.682	0.039
6/18/2024 15:02	0.683	0.041
6/18/2024 15:03	0.686	0.04
6/18/2024 15:04	0.693	0.039
6/18/2024 15:05	0.688	0.039
6/18/2024 15:06	0.691	0.039
6/18/2024 15:07	0.693	0.039

LaBella
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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/18/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/18/2024
Andrew Janik	Labella	Andrew Janik	6/18/2024
Chris Finn	Labella	Chris Finn	6/18/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Telephone Pole Installation	**DATE:**	6/19/2024
LaBella JOB NO.:	#2241404	**Day of Week:**	S M T **W** T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Schuler Haas	**Sheet No.**	1 **of** 1
	Chris Finn, Brent Miller, Andy Janik - LaBella		
	Ben Napieralski - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		80s **AM**	90s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site no subsurface work today, CAMP meters not setup.

0830 LaBella on-site with equipment and materials to construct concrete forms.

0900 Work began on cutting ½" OSB into various sizes for forms.

1000 Work began on constructing concrete form in trench.

1100 Work on concrete forms continues.

1200 Break for lunch.

1300 Concrete form work continues.

1500 Majority of concrete forms were constructed, the two end lengths will be finished in on Thursday. Clean-up of work area began.

1600 LaBella off-site

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/19/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/19/2024
Andrew Janik	Labella	Andrew Janik	6/19/2024
Chris Finn	Labella	Chris Finn	6/19/2024
Ben Napieralski	Labella	Ben Napieralski	6/19/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Telephone Pole Installation	**DATE:**	6/20/2024
LaBella JOB NO.:	#2241401	**Day of Week:**	**S M T W T F S**
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Schuler Haas	**Sheet No.**	1 **of** 1
	Chris Finn, Brent Miller, Andy Janik - LaBella		
	Ben Napieralski - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		80s **AM**	90s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site no subsurface work today

0900 Hand clearing of gravel overlaying the geomembrane in OU-3 started. Gravel is being removed to allow concrete forms to fit in the area.

1000 Removal of gravel completed.

1030 Work on concrete forms constructed of OSB and 2x4s began.

1130 Concrete forms on south side of trench have been completed. Break for lunch.

1230 Work on the northern most portion of the concrete form began.

1300 All concrete forms completed. Backfilling along the edges of the forms has begun using a skid-steer.

1500 Back filling completed, and clean-up of work area has started.

1600 LaBella off-site.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/20/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/20/2024
Andrew Janik	Labella	Andrew Janik	6/20/2024
Chris Finn	Labella	Chris Finn	6/20/2024
Ben Napieralski	Labella	Ben Napieralski	6/20/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Telephone Pole Installation	**DATE:**	6/21/2024
LaBella JOB NO.:	#2241401	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Schuler Haas	**Sheet No.**	1 **of** 1
	Chris Finn, Brent Miller, Andy Janik - LaBella		
	Carly Repka - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		80s **AM**	90s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site no subsurface work today

0900 Hand clearing of gravel overlaying the geomembrane in OU-3 started. Gravel is being removed to allow concrete forms to fit in the area.

1000 Removal of gravel completed.

1030 Concrete for the electrical ductbank onsite.

1130 Concrete truck off site. Break for lunch.

1230 Work on the finishing of the concrete.

1300 All concrete forms completed. Backfilling along the edges of the forms has begun using a skid-steer.

1500 Concrete completed, and clean-up of work area has started.

1600 LaBella off-site.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/21/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/21/2024
Andrew Janik	Labella	Andrew Janik	6/21/2024
Chris Finn	Labella	Chris Finn	6/21/2024
Carly Repka	Labella	Carly Repka	6/21/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Utility Pole Installation	**DATE:**	6/24/2024
LaBella JOB NO.:	#2241401	**Day of Week:**	S **M** T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Schuler Haas	**Sheet No.**	1 **of** 1
	Chris Finn, Brent Miller - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		80s **AM**	80s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site

0900 CAMP meters started.

0915 Work began on digging an approximately 4’x4’x9’ pit for future clean corridor utility pole installation.

1000 Excavation work on-going, spoils being in a stockpile on poly-sheeting.

1130 Break for lunch.

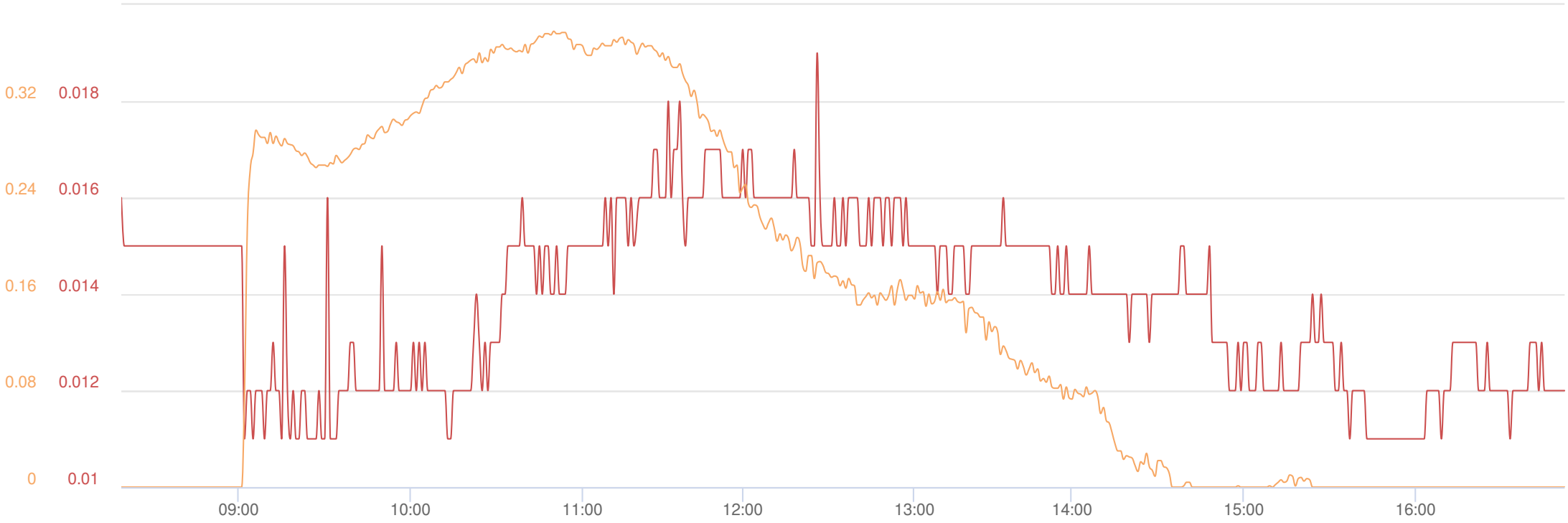
1245 Excavation work starting, excavation is approximately five feet deep.

1400 Excavation work still on-going approximately eight feet deep.

1530 Depth of nine feet reached. All soils stockpiled on poly-sheeting.

1730 LaBella off-site. Stockpile is covered with poly-sheeting, and excavation is covered with 2x4s and OSB sheeting.

Mon, 24th of Jun 2024, 0:00:00 – 16:58:49
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.011	0.014	0.019

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.151	0.378

Name	Labella Buffalo #1
S/N	2B504770
Description	FA06180
Location	503 Elk St, Buffalo, NY 14210, USA

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Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 8:19	0	0.016
6/24/2024 8:20	0	0.015
6/24/2024 8:21	0	0.015
6/24/2024 8:22	0	0.015
6/24/2024 8:23	0	0.015
6/24/2024 8:24	0	0.015
6/24/2024 8:25	0	0.015
6/24/2024 8:26	0	0.015
6/24/2024 8:27	0	0.015
6/24/2024 8:28	0	0.015
6/24/2024 8:29	0	0.015
6/24/2024 8:30	0	0.015
6/24/2024 8:31	0	0.015
6/24/2024 8:32	0	0.015
6/24/2024 8:33	0	0.015
6/24/2024 8:34	0	0.015
6/24/2024 8:35	0	0.015
6/24/2024 8:36	0	0.015
6/24/2024 8:37	0	0.015
6/24/2024 8:38	0	0.015
6/24/2024 8:39	0	0.015
6/24/2024 8:40	0	0.015
6/24/2024 8:41	0	0.015
6/24/2024 8:42	0	0.015
6/24/2024 8:43	0	0.015
6/24/2024 8:44	0	0.015
6/24/2024 8:45	0	0.015
6/24/2024 8:46	0	0.015
6/24/2024 8:47	0	0.015
6/24/2024 8:48	0	0.015
6/24/2024 8:49	0	0.015
6/24/2024 8:50	0	0.015
6/24/2024 8:51	0	0.015
6/24/2024 8:52	0	0.015
6/24/2024 8:53	0	0.015
6/24/2024 8:54	0	0.015
6/24/2024 8:55	0	0.015
6/24/2024 8:56	0	0.015
6/24/2024 8:57	0	0.015
6/24/2024 8:58	0	0.015
6/24/2024 8:59	0	0.015

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 9:00	0	0.015
6/24/2024 9:01	0	0.015
6/24/2024 9:02	0.077	0.011
6/24/2024 9:03	0.216	0.012
6/24/2024 9:04	0.263	0.012
6/24/2024 9:05	0.277	0.011
6/24/2024 9:06	0.296	0.012
6/24/2024 9:07	0.292	0.012
6/24/2024 9:08	0.29	0.012
6/24/2024 9:09	0.29	0.011
6/24/2024 9:10	0.285	0.012
6/24/2024 9:11	0.294	0.012
6/24/2024 9:12	0.285	0.013
6/24/2024 9:13	0.291	0.012
6/24/2024 9:14	0.286	0.012
6/24/2024 9:15	0.283	0.011
6/24/2024 9:16	0.289	0.015
6/24/2024 9:17	0.285	0.012
6/24/2024 9:18	0.284	0.011
6/24/2024 9:19	0.283	0.012
6/24/2024 9:20	0.279	0.011
6/24/2024 9:21	0.278	0.011
6/24/2024 9:22	0.275	0.012
6/24/2024 9:23	0.277	0.012
6/24/2024 9:24	0.274	0.011
6/24/2024 9:25	0.269	0.011
6/24/2024 9:26	0.267	0.011
6/24/2024 9:27	0.265	0.011
6/24/2024 9:28	0.267	0.012
6/24/2024 9:29	0.267	0.011
6/24/2024 9:30	0.267	0.011
6/24/2024 9:31	0.266	0.016
6/24/2024 9:32	0.269	0.011
6/24/2024 9:33	0.268	0.011
6/24/2024 9:34	0.275	0.011
6/24/2024 9:35	0.272	0.012
6/24/2024 9:36	0.269	0.012
6/24/2024 9:37	0.271	0.012
6/24/2024 9:38	0.273	0.012
6/24/2024 9:39	0.276	0.013
6/24/2024 9:40	0.28	0.013

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 9:41	0.281	0.012
6/24/2024 9:42	0.28	0.012
6/24/2024 9:43	0.284	0.012
6/24/2024 9:44	0.285	0.012
6/24/2024 9:45	0.292	0.012
6/24/2024 9:46	0.29	0.012
6/24/2024 9:47	0.289	0.012
6/24/2024 9:48	0.294	0.012
6/24/2024 9:49	0.297	0.012
6/24/2024 9:50	0.299	0.015
6/24/2024 9:51	0.294	0.012
6/24/2024 9:52	0.295	0.012
6/24/2024 9:53	0.301	0.012
6/24/2024 9:54	0.305	0.012
6/24/2024 9:55	0.303	0.013
6/24/2024 9:56	0.302	0.012
6/24/2024 9:57	0.3	0.012
6/24/2024 9:58	0.304	0.012
6/24/2024 9:59	0.305	0.012
6/24/2024 10:00	0.308	0.012
6/24/2024 10:01	0.31	0.013
6/24/2024 10:02	0.311	0.012
6/24/2024 10:03	0.31	0.013
6/24/2024 10:04	0.316	0.012
6/24/2024 10:05	0.322	0.013
6/24/2024 10:06	0.323	0.012
6/24/2024 10:07	0.329	0.012
6/24/2024 10:08	0.33	0.012
6/24/2024 10:09	0.333	0.012
6/24/2024 10:10	0.331	0.012
6/24/2024 10:11	0.332	0.012
6/24/2024 10:12	0.336	0.012
6/24/2024 10:13	0.336	0.011
6/24/2024 10:14	0.338	0.011
6/24/2024 10:15	0.34	0.012
6/24/2024 10:16	0.344	0.012
6/24/2024 10:17	0.348	0.012
6/24/2024 10:18	0.343	0.012
6/24/2024 10:19	0.35	0.012
6/24/2024 10:20	0.352	0.012
6/24/2024 10:21	0.354	0.012

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 10:22	0.355	0.013
6/24/2024 10:23	0.352	0.014
6/24/2024 10:24	0.36	0.013
6/24/2024 10:25	0.352	0.012
6/24/2024 10:26	0.356	0.013
6/24/2024 10:27	0.353	0.012
6/24/2024 10:28	0.363	0.013
6/24/2024 10:29	0.36	0.013
6/24/2024 10:30	0.365	0.013
6/24/2024 10:31	0.365	0.013
6/24/2024 10:32	0.367	0.014
6/24/2024 10:33	0.364	0.014
6/24/2024 10:34	0.363	0.015
6/24/2024 10:35	0.364	0.015
6/24/2024 10:36	0.362	0.015
6/24/2024 10:37	0.361	0.015
6/24/2024 10:38	0.362	0.015
6/24/2024 10:39	0.361	0.016
6/24/2024 10:40	0.367	0.015
6/24/2024 10:41	0.36	0.015
6/24/2024 10:42	0.367	0.015
6/24/2024 10:43	0.368	0.015
6/24/2024 10:44	0.371	0.014
6/24/2024 10:45	0.374	0.015
6/24/2024 10:46	0.373	0.014
6/24/2024 10:47	0.376	0.015
6/24/2024 10:48	0.376	0.015
6/24/2024 10:49	0.375	0.014
6/24/2024 10:50	0.378	0.014
6/24/2024 10:51	0.376	0.015
6/24/2024 10:52	0.376	0.014
6/24/2024 10:53	0.377	0.014
6/24/2024 10:54	0.377	0.014
6/24/2024 10:55	0.372	0.015
6/24/2024 10:56	0.371	0.015
6/24/2024 10:57	0.363	0.015
6/24/2024 10:58	0.367	0.015
6/24/2024 10:59	0.367	0.015
6/24/2024 11:00	0.366	0.015
6/24/2024 11:01	0.36	0.015
6/24/2024 11:02	0.358	0.015

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 11:03	0.358	0.015
6/24/2024 11:04	0.364	0.015
6/24/2024 11:05	0.363	0.015
6/24/2024 11:06	0.365	0.015
6/24/2024 11:07	0.368	0.015
6/24/2024 11:08	0.366	0.016
6/24/2024 11:09	0.366	0.015
6/24/2024 11:10	0.366	0.016
6/24/2024 11:13	0.371	0.014
6/24/2024 11:14	0.369	0.016
6/24/2024 11:15	0.372	0.016
6/24/2024 11:16	0.373	0.016
6/24/2024 11:17	0.367	0.016
6/24/2024 11:18	0.371	0.015
6/24/2024 11:19	0.369	0.016
6/24/2024 11:20	0.367	0.015
6/24/2024 11:23	0.359	
6/24/2024 11:24	0.364	0.016
6/24/2024 11:25	0.368	0.016
6/24/2024 11:26	0.365	0.016
6/24/2024 11:27	0.366	0.016
6/24/2024 11:28	0.366	0.016
6/24/2024 11:29	0.363	0.017
6/24/2024 11:30	0.361	0.017
6/24/2024 11:31	0.357	0.016
6/24/2024 11:32	0.36	0.016
6/24/2024 11:33	0.354	0.016
6/24/2024 11:34	0.357	0.018
6/24/2024 11:35	0.35	0.016
6/24/2024 11:36	0.348	0.017
6/24/2024 11:37	0.348	0.017
6/24/2024 11:38	0.351	0.018
6/24/2024 11:39	0.343	0.016
6/24/2024 11:40	0.337	0.015
6/24/2024 11:41	0.333	0.016
6/24/2024 11:42	0.324	0.016
6/24/2024 11:43	0.329	0.016
6/24/2024 11:44	0.32	0.016
6/24/2024 11:45	0.306	0.016
6/24/2024 11:46	0.309	0.016
6/24/2024 11:47	0.307	0.017

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 11:48	0.303	0.017
6/24/2024 11:49	0.295	0.017
6/24/2024 11:50	0.296	0.017
6/24/2024 11:51	0.291	0.017
6/24/2024 11:52	0.296	0.017
6/24/2024 11:53	0.289	0.016
6/24/2024 11:54	0.282	0.016
6/24/2024 11:55	0.278	0.016
6/24/2024 11:56	0.278	0.016
6/24/2024 11:57	0.265	0.016
6/24/2024 11:58	0.267	0.016
6/24/2024 11:59	0.244	0.016
6/24/2024 12:00	0.248	0.017
6/24/2024 12:01	0.251	0.016
6/24/2024 12:02	0.235	0.017
6/24/2024 12:03	0.232	0.017
6/24/2024 12:04	0.234	0.016
6/24/2024 12:05	0.233	0.016
6/24/2024 12:06	0.224	0.016
6/24/2024 12:07	0.218	0.016
6/24/2024 12:08	0.214	0.016
6/24/2024 12:09	0.219	0.016
6/24/2024 12:10	0.223	0.016
6/24/2024 12:11	0.215	0.016
6/24/2024 12:12	0.204	0.016
6/24/2024 12:13	0.21	0.016
6/24/2024 12:14	0.205	0.016
6/24/2024 12:15	0.209	0.016
6/24/2024 12:16	0.206	0.016
6/24/2024 12:17	0.196	0.016
6/24/2024 12:18	0.2	0.017
6/24/2024 12:19	0.207	0.016
6/24/2024 12:20	0.202	0.016
6/24/2024 12:21	0.183	0.016
6/24/2024 12:22	0.179	0.016
6/24/2024 12:23	0.192	0.016
6/24/2024 12:24	0.192	0.015
6/24/2024 12:25	0.173	0.015
6/24/2024 12:26	0.186	0.019
6/24/2024 12:27	0.187	0.016
6/24/2024 12:28	0.184	0.015

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 12:29	0.178	0.015
6/24/2024 12:30	0.177	0.015
6/24/2024 12:31	0.174	0.015
6/24/2024 12:32	0.175	0.016
6/24/2024 12:33	0.174	0.015
6/24/2024 12:34	0.167	0.015
6/24/2024 12:35	0.171	0.016
6/24/2024 12:36	0.165	0.015
6/24/2024 12:37	0.173	0.016
6/24/2024 12:38	0.168	0.016
6/24/2024 12:39	0.167	0.016
6/24/2024 12:40	0.151	0.016
6/24/2024 12:41	0.151	0.015
6/24/2024 12:42	0.155	0.015
6/24/2024 12:43	0.158	0.015
6/24/2024 12:44	0.161	0.016
6/24/2024 12:45	0.157	0.015
6/24/2024 12:46	0.159	0.016
6/24/2024 12:47	0.151	0.016
6/24/2024 12:48	0.161	0.016
6/24/2024 12:49	0.158	0.015
6/24/2024 12:50	0.155	0.016
6/24/2024 12:51	0.159	0.016
6/24/2024 12:52	0.167	0.015
6/24/2024 12:53	0.151	0.016
6/24/2024 12:54	0.164	0.016
6/24/2024 12:55	0.172	0.016
6/24/2024 12:56	0.164	0.015
6/24/2024 12:57	0.155	0.016
6/24/2024 12:58	0.159	0.015
6/24/2024 12:59	0.159	0.015
6/24/2024 13:00	0.156	0.015
6/24/2024 13:01	0.167	0.015
6/24/2024 13:02	0.161	0.015
6/24/2024 13:03	0.162	0.015
6/24/2024 13:04	0.15	0.015
6/24/2024 13:05	0.16	0.015
6/24/2024 13:06	0.152	0.015
6/24/2024 13:07	0.154	0.015
6/24/2024 13:08	0.162	0.014
6/24/2024 13:09	0.155	0.015

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 13:10	0.164	0.015
6/24/2024 13:11	0.153	0.015
6/24/2024 13:12	0.155	0.014
6/24/2024 13:13	0.155	0.014
6/24/2024 13:14	0.157	0.015
6/24/2024 13:15	0.154	0.015
6/24/2024 13:16	0.153	0.015
6/24/2024 13:17	0.154	0.015
6/24/2024 13:18	0.128	0.014
6/24/2024 13:19	0.148	0.014
6/24/2024 13:20	0.149	0.015
6/24/2024 13:21	0.145	0.015
6/24/2024 13:22	0.144	0.015
6/24/2024 13:23	0.141	0.015
6/24/2024 13:24	0.141	0.015
6/24/2024 13:25	0.122	0.015
6/24/2024 13:26	0.137	0.015
6/24/2024 13:27	0.129	0.015
6/24/2024 13:28	0.133	0.015
6/24/2024 13:29	0.129	0.015
6/24/2024 13:30	0.11	0.015
6/24/2024 13:31	0.117	0.016
6/24/2024 13:32	0.113	0.015
6/24/2024 13:38	0.107	0.015
6/24/2024 13:39	0.106	0.015
6/24/2024 13:40	0.105	0.015
6/24/2024 13:41	0.098	0.015
6/24/2024 13:42	0.105	0.015
6/24/2024 13:43	0.1	0.015
6/24/2024 13:44	0.093	0.015
6/24/2024 13:45	0.098	0.015
6/24/2024 13:46	0.103	0.015
6/24/2024 13:47	0.095	0.015
6/24/2024 13:48	0.098	0.015
6/24/2024 13:49	0.088	0.015
6/24/2024 13:50	0.09	0.015
6/24/2024 13:51	0.087	0.015
6/24/2024 13:52	0.092	0.015
6/24/2024 13:53	0.083	0.014
6/24/2024 13:54	0.082	0.014
6/24/2024 13:55	0.082	0.015

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 13:56	0.085	0.014
6/24/2024 13:57	0.073	0.014
6/24/2024 13:58	0.083	0.015
6/24/2024 13:59	0.074	0.014
6/24/2024 14:00	0.073	0.014
6/24/2024 14:01	0.081	0.014
6/24/2024 14:02	0.078	0.014
6/24/2024 14:03	0.077	0.014
6/24/2024 14:04	0.075	0.014
6/24/2024 14:05	0.083	0.014
6/24/2024 14:06	0.077	0.015
6/24/2024 14:07	0.078	0.014
6/24/2024 14:08	0.08	0.014
6/24/2024 14:09	0.075	0.014
6/24/2024 14:10	0.061	0.014
6/24/2024 14:11	0.066	0.014
6/24/2024 14:12	0.055	0.014
6/24/2024 14:13	0.053	0.014
6/24/2024 14:14	0.045	0.014
6/24/2024 14:15	0.036	0.014
6/24/2024 14:16	0.03	0.014
6/24/2024 14:17	0.03	0.014
6/24/2024 14:18	0.023	0.014
6/24/2024 14:19	0.026	0.014
6/24/2024 14:20	0.025	0.013
6/24/2024 14:21	0.024	0.014
6/24/2024 14:22	0.018	0.014
6/24/2024 14:23	0.013	0.014
6/24/2024 14:24	0.021	0.014
6/24/2024 14:25	0.019	0.014
6/24/2024 14:26	0.028	0.014
6/24/2024 14:27	0.017	0.013
6/24/2024 14:28	0.014	0.014
6/24/2024 14:29	0.009	0.014
6/24/2024 14:30	0.022	0.014
6/24/2024 14:31	0.022	0.014
6/24/2024 14:32	0.017	0.014
6/24/2024 14:33	0.016	0.014
6/24/2024 14:34	0.011	0.014
6/24/2024 14:35	0	0.014
6/24/2024 14:36	0	0.014

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 14:37	0	0.014
6/24/2024 14:38	0	0.015
6/24/2024 14:39	0.001	0.015
6/24/2024 14:40	0.004	0.014
6/24/2024 14:41	0.004	0.014
6/24/2024 14:42	0	0.014
6/24/2024 14:43	0	0.014
6/24/2024 14:44	0	0.014
6/24/2024 14:45	0	0.014
6/24/2024 14:46	0	0.014
6/24/2024 14:47	0	0.014
6/24/2024 14:48	0	0.015
6/24/2024 14:49	0	0.013
6/24/2024 14:50	0	0.013
6/24/2024 14:51	0	0.013
6/24/2024 14:52	0	0.013
6/24/2024 14:53	0	0.013
6/24/2024 14:54	0	0.013
6/24/2024 14:55	0	0.012
6/24/2024 14:56	0	0.012
6/24/2024 14:57	0	0.012
6/24/2024 14:58	0.001	0.013
6/24/2024 14:59	0	0.012
6/24/2024 15:00	0	0.013
6/24/2024 15:01	0	0.013
6/24/2024 15:02	0	0.012
6/24/2024 15:03	0	0.012
6/24/2024 15:04	0	0.012
6/24/2024 15:05	0	0.013
6/24/2024 15:06	0	0.013
6/24/2024 15:07	0	0.012
6/24/2024 15:08	0	0.012
6/24/2024 15:09	0.001	0.012
6/24/2024 15:10	0	0.012
6/24/2024 15:11	0.002	0.012
6/24/2024 15:12	0.004	0.012
6/24/2024 15:13	0.006	0.013
6/24/2024 15:14	0.004	0.012
6/24/2024 15:15	0.005	0.012
6/24/2024 15:16	0.01	0.012
6/24/2024 15:17	0.009	0.012

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 15:18	0.001	0.012
6/24/2024 15:19	0.007	0.012
6/24/2024 15:20	0.008	0.013
6/24/2024 15:21	0.005	0.013
6/24/2024 15:22	0.007	0.013
6/24/2024 15:23	0.006	0.013
6/24/2024 15:24	0	0.014
6/24/2024 15:25	0	0.013
6/24/2024 15:26	0	0.013
6/24/2024 15:27	0	0.014
6/24/2024 15:28	0	0.013
6/24/2024 15:29	0	0.013
6/24/2024 15:30	0	0.013
6/24/2024 15:31	0	0.013
6/24/2024 15:32	0	0.012
6/24/2024 15:33	0	0.012
6/24/2024 15:34	0	0.013
6/24/2024 15:35	0	0.012
6/24/2024 15:36	0	0.012
6/24/2024 15:37	0	0.011
6/24/2024 15:38	0	0.012
6/24/2024 15:39	0	0.012
6/24/2024 15:40	0	0.012
6/24/2024 15:41	0	0.012
6/24/2024 15:42	0	0.012
6/24/2024 15:43	0	0.011
6/24/2024 15:44	0	0.011
6/24/2024 15:45	0	0.011
6/24/2024 15:46	0	0.011
6/24/2024 15:47	0	0.011
6/24/2024 15:48	0	0.011
6/24/2024 15:49	0	0.011
6/24/2024 15:50	0	0.011
6/24/2024 15:51	0	0.011
6/24/2024 15:52	0	0.011
6/24/2024 15:53	0	0.011
6/24/2024 15:54	0	0.011
6/24/2024 15:55	0	0.011
6/24/2024 15:56	0	0.011
6/24/2024 15:57	0	0.011
6/24/2024 15:58	0	0.011

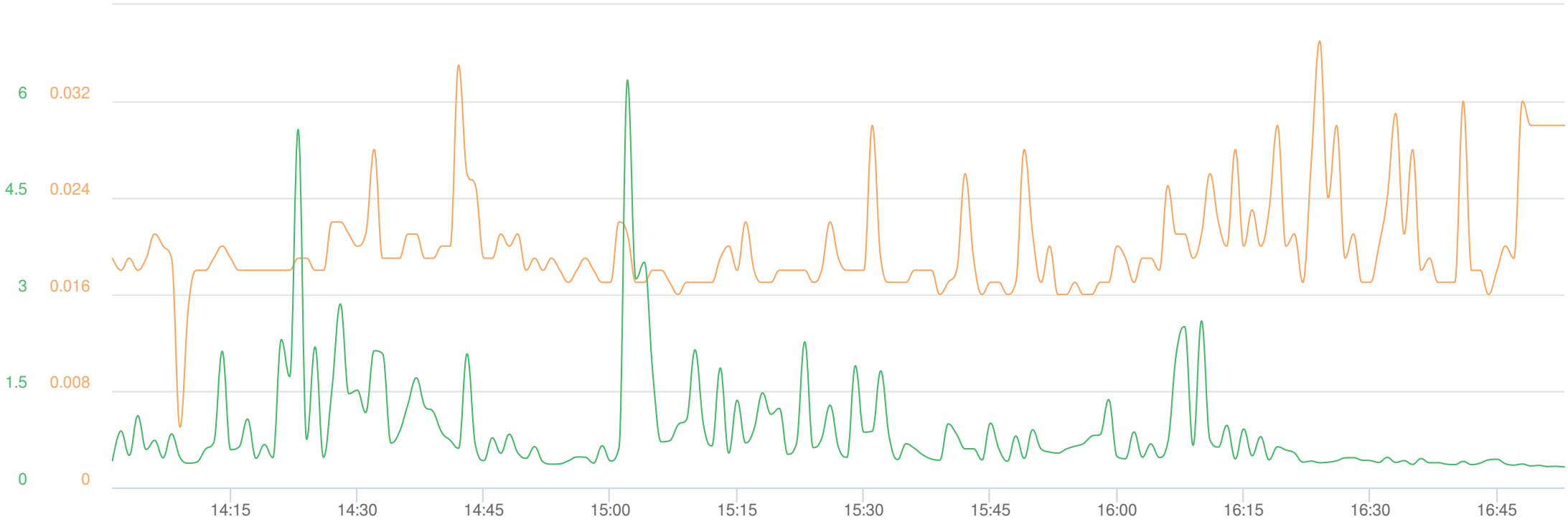
Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 15:59	0	0.011
6/24/2024 16:00	0	0.011
6/24/2024 16:01	0	0.011
6/24/2024 16:02	0	0.011
6/24/2024 16:03	0	0.011
6/24/2024 16:04	0	0.012
6/24/2024 16:05	0	0.012
6/24/2024 16:06	0	0.012
6/24/2024 16:07	0	0.012
6/24/2024 16:08	0	0.012
6/24/2024 16:09	0	0.011
6/24/2024 16:10	0	0.012
6/24/2024 16:11	0	0.012
6/24/2024 16:12	0	0.012
6/24/2024 16:13	0	0.013
6/24/2024 16:14	0	0.013
6/24/2024 16:15	0	0.013
6/24/2024 16:16	0	0.013
6/24/2024 16:17	0	0.013
6/24/2024 16:18	0	0.013
6/24/2024 16:19	0	0.013
6/24/2024 16:20	0	0.013
6/24/2024 16:21	0	0.013
6/24/2024 16:22	0	0.012
6/24/2024 16:23	0	0.012
6/24/2024 16:24	0	0.012
6/24/2024 16:25	0	0.013
6/24/2024 16:26	0	0.012
6/24/2024 16:27	0	0.012
6/24/2024 16:28	0	0.012
6/24/2024 16:29	0	0.012
6/24/2024 16:30	0	0.012
6/24/2024 16:31	0	0.012
6/24/2024 16:32	0	0.012
6/24/2024 16:33	0	0.011
6/24/2024 16:34	0	0.012
6/24/2024 16:35	0	0.012
6/24/2024 16:36	0	0.012
6/24/2024 16:37	0	0.012
6/24/2024 16:38	0	0.012
6/24/2024 16:39	0	0.012

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 16:40	0	0.013
6/24/2024 16:41	0	0.013
6/24/2024 16:42	0	0.013
6/24/2024 16:43	0	0.012
6/24/2024 16:44	0	0.013
6/24/2024 16:45	0	0.012
6/24/2024 16:46	0	0.012
6/24/2024 16:47	0	0.012
6/24/2024 16:48	0	0.012
6/24/2024 16:49	0	0.012
6/24/2024 16:50	0	0.012
6/24/2024 16:51	0	0.012
6/24/2024 16:52	0	0.012

Mon, 24th of Jun 2024, 14:02:07 – 17:02:07
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.005	0.02	0.037

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.326	0.893	6.33

Name	Labella Buffalo #2
S/N	2B553545
Description	FA06182
Location	476 Elk St, Buffalo, NY 14210, USA

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Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 8:24		0.022
6/24/2024 8:25	0.008	0.022
6/24/2024 8:26	0.012	0.022
6/24/2024 8:27	0.013	0.022
6/24/2024 8:28	0.027	0.022
6/24/2024 8:29	0.031	0.022
6/24/2024 8:30	0.036	0.022
6/24/2024 8:31	0.044	0.022
6/24/2024 8:32	0.051	0.022
6/24/2024 8:33	0.053	0.022
6/24/2024 8:34	0.062	0.022
6/24/2024 8:35	0.066	0.022
6/24/2024 8:36	0.067	0.022
6/24/2024 8:37	0.068	0.022
6/24/2024 8:38	0.079	0.022
6/24/2024 8:39	0.081	0.022
6/24/2024 8:40	0.085	0.022
6/24/2024 8:41	0.09	0.022
6/24/2024 8:42	0.099	0.022
6/24/2024 8:43	0.102	0.022
6/24/2024 8:44	0.105	0.022
6/24/2024 8:45	0.107	0.022
6/24/2024 8:46	0.111	0.022
6/24/2024 8:47	0.115	0.022
6/24/2024 8:48	0.119	0.022
6/24/2024 8:49	0.127	0.022
6/24/2024 8:50	0.128	0.022
6/24/2024 8:51	0.132	0.022
6/24/2024 8:52	0.133	0.022
6/24/2024 8:53	0.138	0.022
6/24/2024 8:54	0.141	0.022
6/24/2024 8:55	0.147	0.022
6/24/2024 8:56	0.145	0.022
6/24/2024 8:57	0.165	0.022
6/24/2024 8:58	0.147	0.022
6/24/2024 8:59	0.136	0.022
6/24/2024 9:00	0.14	0.022
6/24/2024 9:01	0.132	0.022
6/24/2024 9:02	0.211	0.022
6/24/2024 9:03	0.137	0.022
6/24/2024 9:04	0.14	0.022

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 9:05	0.145	0.022
6/24/2024 9:06	0.14	0.022
6/24/2024 9:07	0.146	0.022
6/24/2024 9:08	0.141	0.022
6/24/2024 9:09	0.136	0.017
6/24/2024 9:10	0.127	0.02
6/24/2024 9:11	0.134	0.017
6/24/2024 9:12	0.129	0.017
6/24/2024 9:13	0.135	0.017
6/24/2024 9:14	0.142	0.016
6/24/2024 9:15	0.137	0.016
6/24/2024 9:16	0.142	0.017
6/24/2024 9:17	0.146	0.017
6/24/2024 9:18	0.146	0.017
6/24/2024 9:19	0.144	0.017
6/24/2024 9:20	0.145	0.017
6/24/2024 9:21	0.144	0.017
6/24/2024 9:22	0.142	0.017
6/24/2024 9:23	0.151	0.017
6/24/2024 9:24	0.147	0.017
6/24/2024 9:25	0.153	0.016
6/24/2024 9:26	0.157	0.016
6/24/2024 9:27	0.157	0.016
6/24/2024 9:28	0.159	0.016
6/24/2024 9:29	0.16	0.016
6/24/2024 9:30	0.168	0.016
6/24/2024 9:33	0.166	0.015
6/24/2024 9:34	0.171	0.016
6/24/2024 9:35	0.17	0.016
6/24/2024 9:36	0.175	0.017
6/24/2024 9:37	0.177	0.017
6/24/2024 9:38	0.179	0.017
6/24/2024 9:39	0.182	0.017
6/24/2024 9:40	0.188	0.017
6/24/2024 9:41	0.191	0.017
6/24/2024 9:42	0.193	0.016
6/24/2024 9:43	0.194	0.016
6/24/2024 9:44	0.198	0.016
6/24/2024 9:45	0.206	0.017
6/24/2024 9:46	0.207	0.017
6/24/2024 9:47	0.206	0.016

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 9:48	0.212	0.016
6/24/2024 9:49	0.216	0.017
6/24/2024 9:50	0.214	0.017
6/24/2024 9:51	0.219	0.016
6/24/2024 9:52	0.226	0.017
6/24/2024 9:53	0.228	0.017
6/24/2024 9:54	0.23	0.016
6/24/2024 9:55	0.232	0.017
6/24/2024 9:56	0.228	0.017
6/24/2024 9:57	0.232	0.016
6/24/2024 9:58	0.232	0.016
6/24/2024 9:59	0.232	0.017
6/24/2024 10:00	0.232	0.016
6/24/2024 10:01	0.237	0.017
6/24/2024 10:02	0.241	0.016
6/24/2024 10:03	0.244	0.016
6/24/2024 10:04	0.245	0.017
6/24/2024 10:05	0.244	0.017
6/24/2024 10:06	0.248	0.016
6/24/2024 10:07	0.252	0.016
6/24/2024 10:08	0.253	0.016
6/24/2024 10:09	0.259	0.016
6/24/2024 10:10	0.254	0.016
6/24/2024 10:11	0.26	0.016
6/24/2024 10:12	0.264	0.016
6/24/2024 10:13	0.261	0.016
6/24/2024 10:14	0.265	0.016
6/24/2024 10:15	0.27	0.016
6/24/2024 10:16	0.277	0.016
6/24/2024 10:17	0.272	0.017
6/24/2024 10:18	0.276	0.017
6/24/2024 10:19	0.283	0.017
6/24/2024 10:20	0.278	0.017
6/24/2024 10:21	0.283	0.017
6/24/2024 10:22	0.279	0.019
6/24/2024 10:23	0.286	0.017
6/24/2024 10:24	0.288	0.017
6/24/2024 10:25	0.292	0.017
6/24/2024 10:26	0.29	0.017
6/24/2024 10:27	0.288	0.017
6/24/2024 10:28	0.295	0.017

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 10:29	0.298	0.017
6/24/2024 10:30	0.299	0.017
6/24/2024 10:31	0.298	0.017
6/24/2024 10:32	0.294	0.017
6/24/2024 10:33	0.297	0.017
6/24/2024 10:34	0.302	0.017
6/24/2024 10:35	0.296	0.018
6/24/2024 10:36	0.299	0.018
6/24/2024 10:37	0.3	0.018
6/24/2024 10:38	0.302	0.018
6/24/2024 10:39	0.303	0.018
6/24/2024 10:40	0.307	0.023
6/24/2024 10:41	0.304	0.019
6/24/2024 10:42	0.309	0.018
6/24/2024 10:43	0.314	0.019
6/24/2024 10:44	0.311	0.019
6/24/2024 10:45	0.314	0.018
6/24/2024 10:46	0.316	0.019
6/24/2024 10:47	0.322	0.018
6/24/2024 10:48	0.314	0.019
6/24/2024 10:49	0.319	0.018
6/24/2024 10:50	0.319	0.018
6/24/2024 10:51	0.322	0.018
6/24/2024 10:52	0.327	0.018
6/24/2024 10:53	0.318	0.018
6/24/2024 10:54	0.323	0.019
6/24/2024 10:55	0.319	0.019
6/24/2024 10:56	0.321	0.019
6/24/2024 10:57	0.325	0.019
6/24/2024 10:58	0.322	0.019
6/24/2024 10:59	0.323	0.019
6/24/2024 11:00	0.321	0.02
6/24/2024 11:01	0.32	0.019
6/24/2024 11:02	0.326	0.019
6/24/2024 11:03	0.327	0.019
6/24/2024 11:04	0.331	0.019
6/24/2024 11:05	0.332	0.019
6/24/2024 11:06	0.336	0.019
6/24/2024 11:07	0.338	0.019
6/24/2024 11:08	0.341	0.019
6/24/2024 11:09	0.346	0.019

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 11:10	0.349	0.019
6/24/2024 11:11	0.349	0.019
6/24/2024 11:12	0.35	0.018
6/24/2024 11:13	0.355	0.019
6/24/2024 11:14	0.356	0.019
6/24/2024 11:15	0.358	0.02
6/24/2024 11:16	0.357	0.02
6/24/2024 11:17	0.358	0.02
6/24/2024 11:18	0.357	0.019
6/24/2024 11:19	0.356	0.019
6/24/2024 11:20	0.355	0.019
6/24/2024 11:21	0.352	0.02
6/24/2024 11:22	0.353	0.02
6/24/2024 11:23	0.356	0.02
6/24/2024 11:24	0.353	0.019
6/24/2024 11:25	0.354	0.02
6/24/2024 11:26	0.354	0.02
6/24/2024 11:27	0.355	0.02
6/24/2024 11:28	0.356	0.02
6/24/2024 11:29	0.358	0.021
6/24/2024 11:30	0.357	0.021
6/24/2024 11:31	0.36	0.021
6/24/2024 11:32	0.355	0.021
6/24/2024 11:33	0.357	0.02
6/24/2024 11:34	0.358	0.021
6/24/2024 11:35	0.361	0.022
6/24/2024 11:36	0.36	0.021
6/24/2024 11:37	0.359	0.021
6/24/2024 11:38	0.367	0.021
6/24/2024 11:39	0.355	0.021
6/24/2024 11:40	0.342	0.02
6/24/2024 11:41	0.338	0.02
6/24/2024 11:42	0.342	0.021
6/24/2024 11:43	0.34	0.02
6/24/2024 11:44	0.339	0.02
6/24/2024 11:45	0.334	0.021
6/24/2024 11:46	0.33	0.02
6/24/2024 11:47	0.325	0.02
6/24/2024 11:48	0.336	0.02
6/24/2024 11:49	0.32	0.02
6/24/2024 11:50	0.318	0.02

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 11:51	0.316	0.02
6/24/2024 11:52	0.325	0.02
6/24/2024 11:53	0.331	0.02
6/24/2024 11:54	0.322	0.02
6/24/2024 11:55	0.311	0.02
6/24/2024 11:56	0.309	0.019
6/24/2024 11:57	0.309	0.02
6/24/2024 11:58	0.313	0.019
6/24/2024 11:59	0.296	0.02
6/24/2024 12:00	0.319	0.019
6/24/2024 12:01	0.302	0.021
6/24/2024 12:02	0.319	0.021
6/24/2024 12:03	0.313	0.02
6/24/2024 12:04	0.311	0.02
6/24/2024 12:05	0.308	0.02
6/24/2024 12:06	0.317	0.021
6/24/2024 12:07	0.299	0.021
6/24/2024 12:08	0.3	0.038
6/24/2024 12:09	0.311	0.02
6/24/2024 12:10	0.318	0.02
6/24/2024 12:11	0.307	0.02
6/24/2024 12:12	0.297	0.02
6/24/2024 12:13	0.296	0.02
6/24/2024 12:14	0.301	0.02
6/24/2024 12:15	0.31	0.021
6/24/2024 12:16	0.306	0.021
6/24/2024 12:17	0.313	0.02
6/24/2024 12:18	0.315	0.058
6/24/2024 12:19	0.319	0.021
6/24/2024 12:20	0.298	0.02
6/24/2024 12:21	0.306	0.02
6/24/2024 12:22	0.297	0.021
6/24/2024 12:23	0.308	0.02
6/24/2024 12:24	0.3	0.019
6/24/2024 12:25	0.304	0.02
6/24/2024 12:26	0.297	0.02
6/24/2024 12:27	0.289	0.02
6/24/2024 12:28	0.3	0.019
6/24/2024 12:29	0.291	0.019
6/24/2024 12:30	0.295	0.018
6/24/2024 12:31	0.293	0.019

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 12:32	0.289	0.019
6/24/2024 12:33	0.288	0.018
6/24/2024 12:34	0.297	0.019
6/24/2024 12:35	0.292	0.019
6/24/2024 12:36	0.296	0.02
6/24/2024 12:37	0.31	0.019
6/24/2024 12:38	0.306	0.019
6/24/2024 12:39	0.315	0.019
6/24/2024 12:40	0.326	0.022
6/24/2024 12:41	0.308	0.019
6/24/2024 12:42	0.309	0.019
6/24/2024 12:43	0.313	0.018
6/24/2024 12:44	0.313	0.019
6/24/2024 12:45	0.311	0.019
6/24/2024 12:46	0.313	0.019
6/24/2024 12:47	0.318	0.019
6/24/2024 12:48	0.317	0.019
6/24/2024 12:49	0.311	0.019
6/24/2024 12:50	0.321	0.019
6/24/2024 12:51	0.322	0.021
6/24/2024 12:52	0.322	0.019
6/24/2024 12:53	0.327	0.019
6/24/2024 12:54	0.331	0.02
6/24/2024 12:55	0.346	0.021
6/24/2024 12:56	0.343	0.019
6/24/2024 12:57	0.33	0.019
6/24/2024 12:58	0.342	0.02
6/24/2024 12:59	0.331	0.02
6/24/2024 13:00	0.331	0.019
6/24/2024 13:01	0.326	0.019
6/24/2024 13:02	0.339	0.019
6/24/2024 13:03	0.334	0.019
6/24/2024 13:04	0.328	0.019
6/24/2024 13:05	0.337	0.019
6/24/2024 13:06	0.332	0.019
6/24/2024 13:07	0.331	0.018
6/24/2024 13:08	0.332	0.018
6/24/2024 13:09	0.333	0.018
6/24/2024 13:10	0.338	0.019
6/24/2024 13:11	0.329	0.018
6/24/2024 13:12	0.337	0.018

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 13:13	0.332	0.018
6/24/2024 13:14	0.336	0.018
6/24/2024 13:15	0.335	0.018
6/24/2024 13:16	0.352	0.019
6/24/2024 13:17	0.34	0.019
6/24/2024 13:18	0.347	0.019
6/24/2024 13:19	0.338	0.018
6/24/2024 13:20	0.355	0.019
6/24/2024 13:21	0.351	0.019
6/24/2024 13:22	0.364	0.019
6/24/2024 13:23	0.673	0.02
6/24/2024 13:24	0.624	0.022
6/24/2024 13:25	0.768	0.025
6/24/2024 13:26	0.497	0.021
6/24/2024 13:27	0.715	0.025
6/24/2024 13:28	0.73	0.026
6/24/2024 13:29	0.718	0.022
6/24/2024 13:30	1.136	0.023
6/24/2024 13:31	0.487	0.02
6/24/2024 13:32	0.383	0.019
6/24/2024 13:33	0.471	0.019
6/24/2024 13:34	0.391	0.019
6/24/2024 13:35	0.608	0.019
6/24/2024 13:36	0.502	0.02
6/24/2024 13:37	0.395	0.022
6/24/2024 13:38	0.692	0.021
6/24/2024 13:39	0.595	0.076
6/24/2024 13:40	0.417	0.027
6/24/2024 13:41	0.807	0.028
6/24/2024 13:42	0.537	0.023
6/24/2024 13:43	0.44	0.033
6/24/2024 13:44	0.569	0.026
6/24/2024 13:45	0.63	0.025
6/24/2024 13:46	0.486	0.023
6/24/2024 13:47	0.386	0.023
6/24/2024 13:48	0.379	0.026
6/24/2024 13:49	0.394	0.022
6/24/2024 13:50	0.565	0.023
6/24/2024 13:51	0.376	0.025
6/24/2024 13:52	0.377	0.02
6/24/2024 13:53	0.367	0.019

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 13:54	0.528	0.02
6/24/2024 13:55	0.583	0.021
6/24/2024 13:56	0.382	0.021
6/24/2024 13:57	0.445	0.02
6/24/2024 13:58	0.482	0.023
6/24/2024 13:59	0.447	0.026
6/24/2024 14:00	0.506	0.02
6/24/2024 14:01	0.415	0.019
6/24/2024 14:02	0.879	0.018
6/24/2024 14:03	0.499	0.019
6/24/2024 14:04	1.115	0.018
6/24/2024 14:05	0.591	0.019
6/24/2024 14:06	0.733	0.021
6/24/2024 14:07	0.462	0.02
6/24/2024 14:08	0.833	0.019
6/24/2024 14:09	0.467	0.005
6/24/2024 14:10	0.378	0.015
6/24/2024 14:11	0.395	0.018
6/24/2024 14:12	0.592	0.018
6/24/2024 14:13	0.697	0.019
6/24/2024 14:14	2.116	0.02
6/24/2024 14:15	0.588	0.019
6/24/2024 14:16	0.63	0.018
6/24/2024 14:17	1.063	0.018
6/24/2024 14:18	0.456	0.018
6/24/2024 14:19	0.667	0.018
6/24/2024 14:20	0.465	0.018
6/24/2024 14:21	2.297	0.018
6/24/2024 14:22	1.723	0.018
6/24/2024 14:23	5.563	0.019
6/24/2024 14:24	0.747	0.019
6/24/2024 14:25	2.184	0.018
6/24/2024 14:26	0.47	0.018
6/24/2024 14:27	1.53	0.022
6/24/2024 14:28	2.851	0.022
6/24/2024 14:29	1.457	0.021
6/24/2024 14:30	1.512	0.02
6/24/2024 14:31	1.164	0.021
6/24/2024 14:32	2.124	0.028
6/24/2024 14:33	2.08	0.019
6/24/2024 14:34	0.69	0.019

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 14:35	0.865	0.019
6/24/2024 14:36	1.293	0.021
6/24/2024 14:37	1.703	0.021
6/24/2024 14:38	1.261	0.019
6/24/2024 14:39	1.176	0.019
6/24/2024 14:40	0.858	0.02
6/24/2024 14:41	0.735	0.02
6/24/2024 14:42	0.609	0.035
6/24/2024 14:43	2.076	0.026
6/24/2024 14:44	0.655	0.025
6/24/2024 14:45	0.419	0.019
6/24/2024 14:46	0.77	0.019
6/24/2024 14:47	0.533	0.021
6/24/2024 14:48	0.828	0.02
6/24/2024 14:49	0.543	0.021
6/24/2024 14:50	0.454	0.018
6/24/2024 14:51	0.635	0.019
6/24/2024 14:52	0.397	0.018
6/24/2024 14:53	0.363	0.019
6/24/2024 14:54	0.368	0.018
6/24/2024 14:55	0.414	0.017
6/24/2024 14:56	0.474	0.018
6/24/2024 14:57	0.47	0.019
6/24/2024 14:58	0.379	0.018
6/24/2024 14:59	0.648	0.017
6/24/2024 15:00	0.412	0.017
6/24/2024 15:01	0.617	0.022
6/24/2024 15:02	6.33	0.021
6/24/2024 15:03	3.241	0.017
6/24/2024 15:04	3.5	0.017
6/24/2024 15:05	1.781	0.018
6/24/2024 15:06	0.71	0.018
6/24/2024 15:07	0.727	0.017
6/24/2024 15:08	0.974	0.016
6/24/2024 15:09	1.053	0.017
6/24/2024 15:10	2.138	0.017
6/24/2024 15:11	0.982	0.017
6/24/2024 15:12	0.646	0.017
6/24/2024 15:13	1.857	0.019
6/24/2024 15:14	0.535	0.02
6/24/2024 15:15	1.355	0.018

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 15:16	0.693	0.022
6/24/2024 15:17	0.908	0.018
6/24/2024 15:18	1.47	0.017
6/24/2024 15:19	1.139	0.017
6/24/2024 15:20	1.229	0.018
6/24/2024 15:21	0.517	0.018
6/24/2024 15:22	0.67	0.018
6/24/2024 15:23	2.264	0.018
6/24/2024 15:24	0.62	0.017
6/24/2024 15:25	0.758	0.018
6/24/2024 15:26	1.279	0.022
6/24/2024 15:27	0.624	0.019
6/24/2024 15:28	0.47	0.018
6/24/2024 15:29	1.892	0.018
6/24/2024 15:30	0.86	0.018
6/24/2024 15:31	0.875	0.03
6/24/2024 15:32	1.81	0.019
6/24/2024 15:33	0.793	0.017
6/24/2024 15:34	0.435	0.017
6/24/2024 15:35	0.679	0.017
6/24/2024 15:36	0.608	0.018
6/24/2024 15:37	0.506	0.018
6/24/2024 15:38	0.443	0.018
6/24/2024 15:39	0.425	0.016
6/24/2024 15:40	0.988	0.017
6/24/2024 15:41	0.825	0.018
6/24/2024 15:42	0.601	0.026
6/24/2024 15:43	0.601	0.019
6/24/2024 15:44	0.428	0.016
6/24/2024 15:45	0.999	0.017
6/24/2024 15:46	0.6	0.017
6/24/2024 15:47	0.408	0.016
6/24/2024 15:48	0.799	0.017
6/24/2024 15:49	0.453	0.028
6/24/2024 15:50	0.896	0.021
6/24/2024 15:51	0.599	0.017
6/24/2024 15:52	0.552	0.02
6/24/2024 15:53	0.534	0.016
6/24/2024 15:54	0.599	0.016
6/24/2024 15:55	0.641	0.017
6/24/2024 15:56	0.682	0.016

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 15:57	0.798	0.016
6/24/2024 15:58	0.823	0.017
6/24/2024 15:59	1.366	0.017
6/24/2024 16:00	0.482	0.02
6/24/2024 16:01	0.447	0.019
6/24/2024 16:02	0.863	0.017
6/24/2024 16:03	0.471	0.019
6/24/2024 16:04	0.676	0.019
6/24/2024 16:05	0.467	0.018
6/24/2024 16:06	0.694	0.025
6/24/2024 16:07	2.068	0.021
6/24/2024 16:08	2.499	0.021
6/24/2024 16:09	0.655	0.019
6/24/2024 16:10	2.589	0.021
6/24/2024 16:11	0.739	0.026
6/24/2024 16:12	0.628	0.022
6/24/2024 16:13	0.966	0.02
6/24/2024 16:14	0.446	0.028
6/24/2024 16:15	0.908	0.02
6/24/2024 16:16	0.494	0.023
6/24/2024 16:17	0.789	0.02
6/24/2024 16:18	0.43	0.023
6/24/2024 16:19	0.632	0.03
6/24/2024 16:20	0.583	0.02
6/24/2024 16:21	0.538	0.021
6/24/2024 16:22	0.394	0.017
6/24/2024 16:23	0.41	0.027
6/24/2024 16:24	0.385	0.037
6/24/2024 16:25	0.393	0.024
6/24/2024 16:26	0.415	0.03
6/24/2024 16:27	0.46	0.019
6/24/2024 16:28	0.463	0.021
6/24/2024 16:29	0.425	0.017
6/24/2024 16:30	0.418	0.017
6/24/2024 16:31	0.39	0.02
6/24/2024 16:32	0.468	0.024
6/24/2024 16:33	0.39	0.031
6/24/2024 16:34	0.417	0.021
6/24/2024 16:35	0.359	0.028
6/24/2024 16:36	0.449	0.018
6/24/2024 16:37	0.384	0.019

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/24/2024 16:38	0.386	0.017
6/24/2024 16:39	0.363	0.017
6/24/2024 16:40	0.355	0.017
6/24/2024 16:41	0.405	0.032
6/24/2024 16:42	0.355	0.018
6/24/2024 16:43	0.379	0.018
6/24/2024 16:44	0.43	0.016
6/24/2024 16:45	0.439	0.018
6/24/2024 16:46	0.369	0.02
6/24/2024 16:47	0.348	0.019
6/24/2024 16:48	0.365	0.032
6/24/2024 16:49	0.336	0.03
6/24/2024 16:50	0.343	0.03
6/24/2024 16:51	0.326	0.03
6/24/2024 16:52	0.329	0.03
6/24/2024 16:53	0.318	0.03

LaBella
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DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/24/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/24/2024
Chris Finn	Labella	Chris Finn	6/24/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Utility Pole Installation	**DATE:**	6/25/2024
LaBella JOB NO.:	#2241401	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	Schuler Haas	**Sheet No.**	1 **of** 1
	Chris Finn, Brent Miller - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Overcast **AM**	Overcast **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site

0930 CAMP Meters started.

1000 Excavation uncovered, LaBella tamping of bottom of excavation using an excavator.

1045 Tamping completed geotextile fabricate is being installed in the excavation.

1115 Nine-foot corrugated metal pipe is being placed into the excavation.

1130 First load of runner crush stone arrives on-site. Stone will be used to backfill around the pipe.

1200 Break for lunch

1300 Second load of runner crush arrive on-site.

1315 Back filling around pipe has begun. Tamping of stone occurring at various depths.

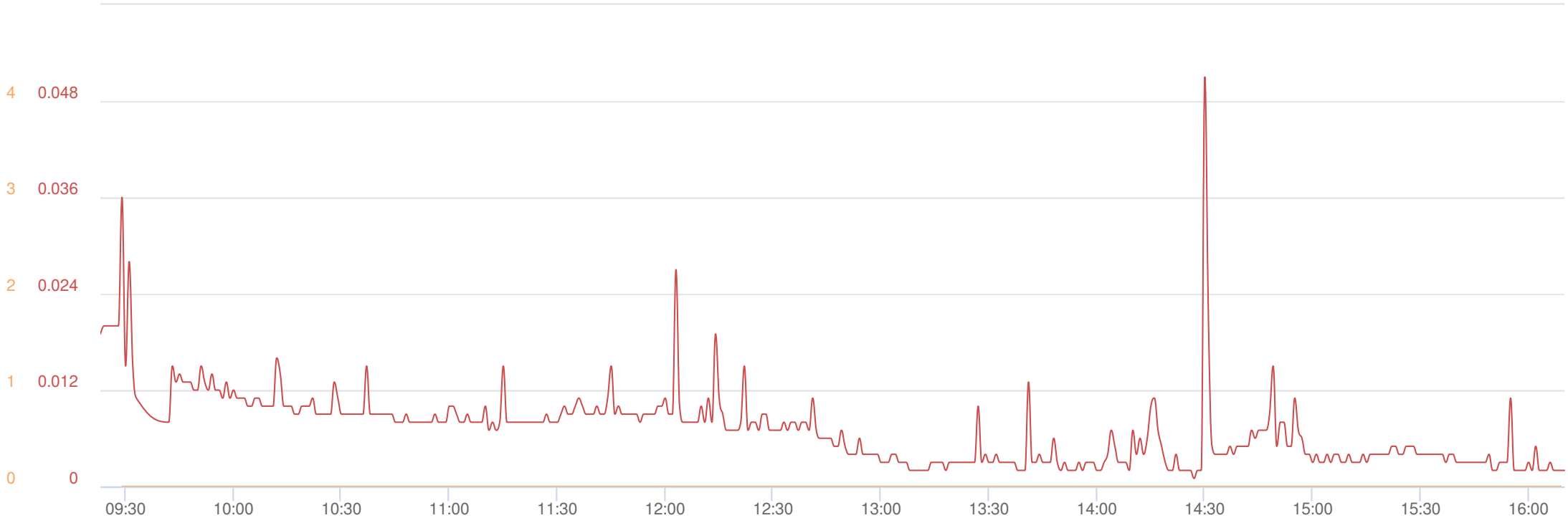
1515 Back filling complete to approximately the demarcation layer.

1530 Pipe has been covered with OSB supported by 2x4s. CAMP meters taken down.

1645 LaBella off-site.

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Tue, 25th of Jun 2024, 0:00:00 – 16:16:12
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.001	0.007	0.051

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

Name	Labella Buffalo #1
S/N	2B504770
Description	FA06180
Location	503 Elk St, Buffalo, NY 14210, USA

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Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 9:21		0.019
6/25/2024 9:22		0.02
6/25/2024 9:23		0.02
6/25/2024 9:24		0.02
6/25/2024 9:25		0.02
6/25/2024 9:26		0.02
6/25/2024 9:29	0	0.036
6/25/2024 9:30	0	0.015
6/25/2024 9:31		0.028
6/25/2024 9:33		0.015
6/25/2024 9:34		0.011
6/25/2024 9:34	0	
6/25/2024 9:35	0	
6/25/2024 9:36	0	
6/25/2024 9:37	0	
6/25/2024 9:38	0	
6/25/2024 9:39	0	
6/25/2024 9:40	0	
6/25/2024 9:41	0	
6/25/2024 9:42	0	0.008
6/25/2024 9:43	0	0.015
6/25/2024 9:44	0	0.013
6/25/2024 9:45	0	0.014
6/25/2024 9:46	0	0.013
6/25/2024 9:47	0	0.013
6/25/2024 9:48	0	0.013
6/25/2024 9:49	0	0.012
6/25/2024 9:50	0	0.012
6/25/2024 9:51	0	0.015
6/25/2024 9:52	0	0.013
6/25/2024 9:53	0	0.012
6/25/2024 9:54	0	0.014
6/25/2024 9:55	0	0.012
6/25/2024 9:56	0	0.012
6/25/2024 9:57	0	0.011
6/25/2024 9:58	0	0.013
6/25/2024 9:59	0	0.011
6/25/2024 10:00	0	0.012
6/25/2024 10:01	0	0.011
6/25/2024 10:02	0	0.011
6/25/2024 10:03	0	0.011

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 10:04	0	0.01
6/25/2024 10:05	0	0.01
6/25/2024 10:06	0	0.011
6/25/2024 10:07	0	0.011
6/25/2024 10:08	0	0.01
6/25/2024 10:09	0	0.01
6/25/2024 10:10	0	0.01
6/25/2024 10:11	0	0.01
6/25/2024 10:12	0	0.016
6/25/2024 10:13	0	0.014
6/25/2024 10:14	0	0.01
6/25/2024 10:15	0	0.01
6/25/2024 10:16	0	0.01
6/25/2024 10:17	0	0.009
6/25/2024 10:18	0	0.009
6/25/2024 10:19	0	0.01
6/25/2024 10:20	0	0.01
6/25/2024 10:21	0	0.01
6/25/2024 10:22	0	0.011
6/25/2024 10:23	0	0.009
6/25/2024 10:24	0	0.009
6/25/2024 10:25	0	0.009
6/25/2024 10:26	0	0.009
6/25/2024 10:27	0	0.009
6/25/2024 10:28	0	0.013
6/25/2024 10:29	0	0.011
6/25/2024 10:30	0	0.009
6/25/2024 10:31	0	0.009
6/25/2024 10:32	0	0.009
6/25/2024 10:33	0	0.009
6/25/2024 10:34	0	0.009
6/25/2024 10:35	0	0.009
6/25/2024 10:36	0	0.009
6/25/2024 10:37	0	0.015
6/25/2024 10:38	0	0.009
6/25/2024 10:39	0	0.009
6/25/2024 10:40	0	0.009
6/25/2024 10:41	0	0.009
6/25/2024 10:42	0	0.009
6/25/2024 10:43	0	0.009
6/25/2024 10:44	0	0.009

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 10:45	0	0.008
6/25/2024 10:46	0	0.008
6/25/2024 10:47	0	0.008
6/25/2024 10:48	0	0.009
6/25/2024 10:49	0	0.008
6/25/2024 10:50	0	0.008
6/25/2024 10:51	0	0.008
6/25/2024 10:52	0	0.008
6/25/2024 10:53	0	0.008
6/25/2024 10:54	0	0.008
6/25/2024 10:55	0	0.008
6/25/2024 10:56	0	0.009
6/25/2024 10:57	0	0.008
6/25/2024 10:58	0	0.008
6/25/2024 10:59	0	0.008
6/25/2024 11:00	0	0.01
6/25/2024 11:01	0	0.01
6/25/2024 11:02	0	0.009
6/25/2024 11:03	0	0.008
6/25/2024 11:04	0	0.008
6/25/2024 11:05	0	0.009
6/25/2024 11:06	0	0.008
6/25/2024 11:07	0	0.008
6/25/2024 11:08	0	0.008
6/25/2024 11:09	0	0.008
6/25/2024 11:10	0	0.01
6/25/2024 11:11	0	0.007
6/25/2024 11:12	0	0.008
6/25/2024 11:13	0	0.007
6/25/2024 11:14	0	0.008
6/25/2024 11:15	0	0.015
6/25/2024 11:16	0	0.008
6/25/2024 11:17	0	0.008
6/25/2024 11:18	0	0.008
6/25/2024 11:19	0	0.008
6/25/2024 11:20	0	0.008
6/25/2024 11:21	0	0.008
6/25/2024 11:22	0	0.008
6/25/2024 11:23	0	0.008
6/25/2024 11:24	0	0.008
6/25/2024 11:25	0	0.008

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 11:26	0	0.008
6/25/2024 11:27	0	0.009
6/25/2024 11:28	0	0.008
6/25/2024 11:29	0	0.008
6/25/2024 11:30	0	0.008
6/25/2024 11:31	0	0.009
6/25/2024 11:32	0	0.01
6/25/2024 11:33	0	0.009
6/25/2024 11:34	0	0.009
6/25/2024 11:35	0	0.01
6/25/2024 11:36	0	0.011
6/25/2024 11:37	0	0.01
6/25/2024 11:38	0	0.009
6/25/2024 11:39	0	0.009
6/25/2024 11:40	0	0.009
6/25/2024 11:41	0	0.01
6/25/2024 11:42	0	0.009
6/25/2024 11:43	0	0.009
6/25/2024 11:44	0	0.011
6/25/2024 11:45	0	0.015
6/25/2024 11:46	0	0.009
6/25/2024 11:47	0	0.01
6/25/2024 11:48	0	0.009
6/25/2024 11:49	0	0.009
6/25/2024 11:50	0	0.009
6/25/2024 11:51	0	0.009
6/25/2024 11:52	0	0.009
6/25/2024 11:53	0	0.008
6/25/2024 11:54	0	0.009
6/25/2024 11:55	0	0.009
6/25/2024 11:56	0	0.009
6/25/2024 11:57	0	0.009
6/25/2024 11:58	0	0.01
6/25/2024 11:59	0	0.01
6/25/2024 12:00	0	0.011
6/25/2024 12:01	0	0.009
6/25/2024 12:02	0	0.009
6/25/2024 12:03	0	0.027
6/25/2024 12:04	0	0.01
6/25/2024 12:05	0	0.008
6/25/2024 12:06	0	0.008

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 12:07	0	0.008
6/25/2024 12:08	0	0.008
6/25/2024 12:09	0	0.008
6/25/2024 12:10	0	0.01
6/25/2024 12:11	0	0.008
6/25/2024 12:12	0	0.011
6/25/2024 12:13	0	0.008
6/25/2024 12:14	0	0.019
6/25/2024 12:15	0	0.011
6/25/2024 12:16	0	0.009
6/25/2024 12:17	0	0.007
6/25/2024 12:18	0	0.007
6/25/2024 12:19	0	0.007
6/25/2024 12:20	0	0.007
6/25/2024 12:21	0	0.008
6/25/2024 12:22	0	0.015
6/25/2024 12:23	0	0.007
6/25/2024 12:24	0	0.008
6/25/2024 12:25	0	0.008
6/25/2024 12:26	0	0.007
6/25/2024 12:27	0	0.009
6/25/2024 12:28	0	0.009
6/25/2024 12:29	0	0.007
6/25/2024 12:30	0	0.007
6/25/2024 12:31	0	0.007
6/25/2024 12:32	0	0.007
6/25/2024 12:33	0	0.008
6/25/2024 12:34	0	0.007
6/25/2024 12:35	0	0.008
6/25/2024 12:36	0	0.008
6/25/2024 12:37	0	0.007
6/25/2024 12:38	0	0.008
6/25/2024 12:39	0	0.008
6/25/2024 12:40	0	0.007
6/25/2024 12:41	0	0.011
6/25/2024 12:42	0	0.007
6/25/2024 12:43	0	0.006
6/25/2024 12:44	0	0.006
6/25/2024 12:45	0	0.006
6/25/2024 12:46	0	0.006
6/25/2024 12:47	0	0.005

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 12:48	0	0.005
6/25/2024 12:49	0	0.007
6/25/2024 12:50	0	0.005
6/25/2024 12:51	0	0.004
6/25/2024 12:52	0	0.004
6/25/2024 12:53	0	0.004
6/25/2024 12:54	0	0.006
6/25/2024 12:55	0	0.004
6/25/2024 12:56	0	0.004
6/25/2024 12:57	0	0.004
6/25/2024 12:58	0	0.004
6/25/2024 12:59	0	0.004
6/25/2024 13:00	0	0.003
6/25/2024 13:01	0	0.003
6/25/2024 13:02	0	0.003
6/25/2024 13:03	0	0.004
6/25/2024 13:04	0	0.004
6/25/2024 13:05	0	0.003
6/25/2024 13:06	0	0.003
6/25/2024 13:07	0	0.003
6/25/2024 13:08	0	0.002
6/25/2024 13:09	0	0.002
6/25/2024 13:10	0	0.002
6/25/2024 13:11	0	0.002
6/25/2024 13:12	0	0.002
6/25/2024 13:13	0	0.002
6/25/2024 13:14	0	0.003
6/25/2024 13:15	0	0.003
6/25/2024 13:16	0	0.003
6/25/2024 13:17	0	0.003
6/25/2024 13:18	0	0.002
6/25/2024 13:19	0	0.003
6/25/2024 13:20	0	0.003
6/25/2024 13:21	0	0.003
6/25/2024 13:22	0	0.003
6/25/2024 13:23	0	0.003
6/25/2024 13:24	0	0.003
6/25/2024 13:25	0	0.003
6/25/2024 13:26	0	0.003
6/25/2024 13:27	0	0.01
6/25/2024 13:28	0	0.003

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 13:29	0	0.004
6/25/2024 13:30	0	0.003
6/25/2024 13:31	0	0.003
6/25/2024 13:32	0	0.004
6/25/2024 13:33	0	0.003
6/25/2024 13:34	0	0.003
6/25/2024 13:35	0	0.003
6/25/2024 13:36	0	0.003
6/25/2024 13:37	0	0.003
6/25/2024 13:38	0	0.002
6/25/2024 13:39	0	0.002
6/25/2024 13:40	0	0.002
6/25/2024 13:41	0	0.013
6/25/2024 13:42	0	0.003
6/25/2024 13:43	0	0.003
6/25/2024 13:44	0	0.004
6/25/2024 13:45	0	0.003
6/25/2024 13:46	0	0.003
6/25/2024 13:47	0	0.003
6/25/2024 13:48	0	0.006
6/25/2024 13:49	0	0.003
6/25/2024 13:50	0	0.002
6/25/2024 13:51	0	0.003
6/25/2024 13:52	0	0.002
6/25/2024 13:53	0	0.002
6/25/2024 13:54	0	0.002
6/25/2024 13:55	0	0.003
6/25/2024 13:56	0	0.002
6/25/2024 13:57	0	0.003
6/25/2024 13:58	0	0.003
6/25/2024 13:59	0	0.003
6/25/2024 14:00	0	0.002
6/25/2024 14:01	0	0.002
6/25/2024 14:02	0	0.003
6/25/2024 14:03	0	0.004
6/25/2024 14:04	0	0.007
6/25/2024 14:05	0	0.005
6/25/2024 14:06	0	0.003
6/25/2024 14:07	0	0.003
6/25/2024 14:08	0	0.003
6/25/2024 14:09	0	0.002

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 14:10	0	0.007
6/25/2024 14:11	0	0.004
6/25/2024 14:12	0	0.006
6/25/2024 14:13	0	0.004
6/25/2024 14:14	0	0.006
6/25/2024 14:15	0	0.01
6/25/2024 14:16	0	0.011
6/25/2024 14:17	0	0.007
6/25/2024 14:18	0	0.005
6/25/2024 14:19	0	0.003
6/25/2024 14:20	0	0.002
6/25/2024 14:21	0	0.002
6/25/2024 14:22	0	0.004
6/25/2024 14:23	0	0.002
6/25/2024 14:24	0	0.002
6/25/2024 14:25	0	0.002
6/25/2024 14:26	0	0.002
6/25/2024 14:27	0	0.001
6/25/2024 14:28	0	0.002
6/25/2024 14:29	0	0.002
6/25/2024 14:30	0	0.051
6/25/2024 14:31	0	0.021
6/25/2024 14:32	0	0.005
6/25/2024 14:33	0	0.004
6/25/2024 14:34	0	0.004
6/25/2024 14:35	0	0.004
6/25/2024 14:36	0	0.004
6/25/2024 14:37	0	0.005
6/25/2024 14:38	0	0.004
6/25/2024 14:39	0	0.005
6/25/2024 14:40	0	0.005
6/25/2024 14:41	0	0.005
6/25/2024 14:42	0	0.005
6/25/2024 14:43	0	0.007
6/25/2024 14:44	0	0.006
6/25/2024 14:45	0	0.007
6/25/2024 14:46	0	0.007
6/25/2024 14:47	0	0.007
6/25/2024 14:48	0	0.009
6/25/2024 14:49	0	0.015
6/25/2024 14:50	0	0.005

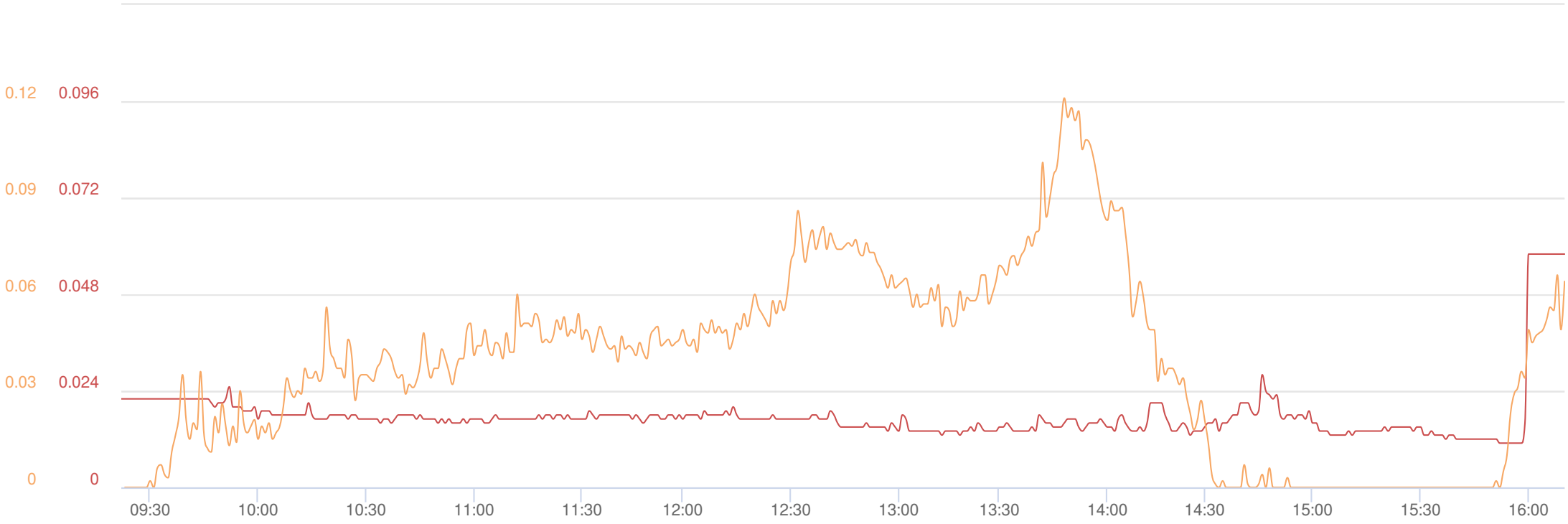
Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 14:51	0	0.008
6/25/2024 14:52	0	0.008
6/25/2024 14:53	0	0.005
6/25/2024 14:54	0	0.005
6/25/2024 14:55	0	0.011
6/25/2024 14:56	0	0.007
6/25/2024 14:57	0	0.006
6/25/2024 14:58	0	0.004
6/25/2024 14:59	0	0.004
6/25/2024 15:00	0	0.003
6/25/2024 15:01	0	0.004
6/25/2024 15:02	0	0.003
6/25/2024 15:03	0	0.003
6/25/2024 15:04	0	0.004
6/25/2024 15:05	0	0.003
6/25/2024 15:06	0	0.004
6/25/2024 15:07	0	0.004
6/25/2024 15:08	0	0.003
6/25/2024 15:09	0	0.003
6/25/2024 15:10	0	0.004
6/25/2024 15:11	0	0.003
6/25/2024 15:12	0	0.003
6/25/2024 15:13	0	0.003
6/25/2024 15:14	0	0.004
6/25/2024 15:15	0	0.003
6/25/2024 15:16	0	0.004
6/25/2024 15:17	0	0.004
6/25/2024 15:18	0	0.004
6/25/2024 15:19	0	0.004
6/25/2024 15:20	0	0.004
6/25/2024 15:21	0	0.004
6/25/2024 15:22	0	0.005
6/25/2024 15:23	0	0.005
6/25/2024 15:24	0	0.004
6/25/2024 15:25	0	0.004
6/25/2024 15:26	0	0.005
6/25/2024 15:27	0	0.005
6/25/2024 15:28	0	0.005
6/25/2024 15:29	0	0.004
6/25/2024 15:30	0	0.004
6/25/2024 15:31	0	0.004

Upwind CAMP Data

Device	RAE RS232(A) 2B504770	DustTrak RS232(C) 2B504770
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 15:32	0	0.004
6/25/2024 15:33	0	0.004
6/25/2024 15:34	0	0.004
6/25/2024 15:35	0	0.004
6/25/2024 15:36	0	0.004
6/25/2024 15:37	0	0.003
6/25/2024 15:38	0	0.004
6/25/2024 15:39	0	0.004
6/25/2024 15:40	0	0.003
6/25/2024 15:41	0	0.003
6/25/2024 15:42	0	0.003
6/25/2024 15:43	0	0.003
6/25/2024 15:44	0	0.003
6/25/2024 15:45	0	0.003
6/25/2024 15:46	0	0.003
6/25/2024 15:47	0	0.003
6/25/2024 15:48	0	0.003
6/25/2024 15:49	0	0.004
6/25/2024 15:50	0	0.002
6/25/2024 15:51	0	0.002
6/25/2024 15:52	0	0.003
6/25/2024 15:53	0	0.003
6/25/2024 15:54	0	0.003
6/25/2024 15:55	0	0.011
6/25/2024 15:56	0	0.002
6/25/2024 15:57	0	0.002
6/25/2024 15:58	0	0.002
6/25/2024 15:59	0	0.002
6/25/2024 16:00	0	0.003
6/25/2024 16:01	0	0.002
6/25/2024 16:02	0	0.005
6/25/2024 16:03	0	0.002
6/25/2024 16:04	0	0.002
6/25/2024 16:05	0	0.002
6/25/2024 16:06	0	0.003
6/25/2024 16:07	0	0.002
6/25/2024 16:08	0	0.002
6/25/2024 16:09	0	0.002
6/25/2024 16:10		0.002

Tue, 25th of Jun 2024, 0:00:00 – 16:17:47
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.011	0.018	0.058

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.039	0.121

Name	Labella Buffalo #2
S/N	2B553545
Description	FA06182
Location	590 Elk St, Buffalo, NY 14210, USA

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Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 9:22		0.022
6/25/2024 9:23	0	0.022
6/25/2024 9:24	0	0.022
6/25/2024 9:25	0	0.022
6/25/2024 9:26	0	0.022
6/25/2024 9:27	0	0.022
6/25/2024 9:28	0	0.022
6/25/2024 9:29	0	0.022
6/25/2024 9:30	0.002	0.022
6/25/2024 9:31	0	0.022
6/25/2024 9:32	0.006	0.022
6/25/2024 9:33	0.007	0.022
6/25/2024 9:34	0.004	0.022
6/25/2024 9:35	0.003	0.022
6/25/2024 9:36	0.011	0.022
6/25/2024 9:37	0.016	0.022
6/25/2024 9:38	0.022	0.022
6/25/2024 9:39	0.035	0.022
6/25/2024 9:40	0.021	0.022
6/25/2024 9:41	0.015	0.022
6/25/2024 9:42	0.02	0.022
6/25/2024 9:43	0.018	0.022
6/25/2024 9:44	0.036	0.022
6/25/2024 9:45	0.016	0.022
6/25/2024 9:46	0.012	0.022
6/25/2024 9:47	0.011	0.021
6/25/2024 9:48	0.022	0.02
6/25/2024 9:49	0.017	0.021
6/25/2024 9:50	0.026	0.021
6/25/2024 9:51	0.019	0.022
6/25/2024 9:52	0.013	0.025
6/25/2024 9:53	0.019	0.02
6/25/2024 9:54	0.014	0.02
6/25/2024 9:55	0.03	0.02
6/25/2024 9:56	0.02	0.019
6/25/2024 9:57	0.017	0.019
6/25/2024 9:58	0.019	0.019
6/25/2024 9:59	0.021	0.02
6/25/2024 10:00	0.015	0.017
6/25/2024 10:01	0.019	0.019
6/25/2024 10:02	0.017	0.019

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 10:03	0.02	0.019
6/25/2024 10:04	0.015	0.018
6/25/2024 10:05	0.017	0.018
6/25/2024 10:06	0.019	0.018
6/25/2024 10:07	0.025	0.018
6/25/2024 10:08	0.034	0.018
6/25/2024 10:09	0.03	0.018
6/25/2024 10:10	0.028	0.018
6/25/2024 10:11	0.03	0.018
6/25/2024 10:12	0.029	0.018
6/25/2024 10:13	0.037	0.018
6/25/2024 10:14	0.034	0.021
6/25/2024 10:15	0.034	0.018
6/25/2024 10:16	0.036	0.017
6/25/2024 10:17	0.033	0.017
6/25/2024 10:18	0.036	0.017
6/25/2024 10:19	0.056	0.017
6/25/2024 10:20	0.043	0.018
6/25/2024 10:21	0.04	0.018
6/25/2024 10:22	0.037	0.018
6/25/2024 10:23	0.037	0.018
6/25/2024 10:24	0.034	0.018
6/25/2024 10:25	0.046	0.017
6/25/2024 10:26	0.041	0.018
6/25/2024 10:27	0.027	0.018
6/25/2024 10:28	0.034	0.017
6/25/2024 10:29	0.035	0.017
6/25/2024 10:30	0.035	0.017
6/25/2024 10:31	0.034	0.017
6/25/2024 10:32	0.033	0.017
6/25/2024 10:33	0.037	0.017
6/25/2024 10:34	0.039	0.016
6/25/2024 10:35	0.043	0.017
6/25/2024 10:36	0.042	0.017
6/25/2024 10:37	0.04	0.016
6/25/2024 10:38	0.036	0.017
6/25/2024 10:39	0.034	0.018
6/25/2024 10:40	0.035	0.018
6/25/2024 10:41	0.029	0.018
6/25/2024 10:42	0.032	0.018
6/25/2024 10:43	0.031	0.018

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 10:44	0.033	0.017
6/25/2024 10:45	0.038	0.018
6/25/2024 10:46	0.048	0.017
6/25/2024 10:47	0.039	0.017
6/25/2024 10:48	0.034	0.017
6/25/2024 10:49	0.037	0.017
6/25/2024 10:50	0.037	0.016
6/25/2024 10:51	0.043	0.017
6/25/2024 10:52	0.04	0.016
6/25/2024 10:53	0.036	0.017
6/25/2024 10:54	0.032	0.016
6/25/2024 10:55	0.037	0.016
6/25/2024 10:56	0.04	0.016
6/25/2024 10:57	0.04	0.017
6/25/2024 10:58	0.049	0.016
6/25/2024 10:59	0.051	0.017
6/25/2024 11:00	0.041	0.017
6/25/2024 11:01	0.044	0.017
6/25/2024 11:02	0.044	0.017
6/25/2024 11:03	0.049	0.016
6/25/2024 11:04	0.043	0.016
6/25/2024 11:05	0.041	0.017
6/25/2024 11:06	0.045	0.018
6/25/2024 11:07	0.044	0.017
6/25/2024 11:08	0.04	0.017
6/25/2024 11:09	0.048	0.017
6/25/2024 11:10	0.042	0.017
6/25/2024 11:11	0.042	0.017
6/25/2024 11:12	0.06	0.017
6/25/2024 11:13	0.05	0.017
6/25/2024 11:14	0.051	0.017
6/25/2024 11:15	0.051	0.017
6/25/2024 11:16	0.05	0.017
6/25/2024 11:17	0.054	0.017
6/25/2024 11:18	0.052	0.018
6/25/2024 11:19	0.045	0.017
6/25/2024 11:20	0.046	0.018
6/25/2024 11:21	0.045	0.018
6/25/2024 11:22	0.047	0.017
6/25/2024 11:23	0.052	0.018
6/25/2024 11:24	0.049	0.018

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 11:25	0.053	0.017
6/25/2024 11:26	0.047	0.018
6/25/2024 11:27	0.049	0.017
6/25/2024 11:28	0.048	0.017
6/25/2024 11:29	0.054	0.017
6/25/2024 11:30	0.046	0.017
6/25/2024 11:31	0.049	0.017
6/25/2024 11:32	0.047	0.019
6/25/2024 11:33	0.042	0.018
6/25/2024 11:34	0.046	0.017
6/25/2024 11:35	0.05	0.018
6/25/2024 11:36	0.047	0.018
6/25/2024 11:37	0.044	0.018
6/25/2024 11:38	0.043	0.018
6/25/2024 11:39	0.044	0.018
6/25/2024 11:40	0.039	0.018
6/25/2024 11:41	0.047	0.018
6/25/2024 11:42	0.043	0.018
6/25/2024 11:43	0.044	0.018
6/25/2024 11:44	0.043	0.017
6/25/2024 11:45	0.041	0.018
6/25/2024 11:46	0.045	0.017
6/25/2024 11:49	0.042	0.016
6/25/2024 11:50	0.04	0.017
6/25/2024 11:51	0.047	0.018
6/25/2024 11:52	0.049	0.018
6/25/2024 11:53	0.05	0.018
6/25/2024 11:54	0.044	0.017
6/25/2024 11:55	0.045	0.017
6/25/2024 11:56	0.046	0.018
6/25/2024 11:57	0.044	0.018
6/25/2024 11:58	0.045	0.017
6/25/2024 11:59	0.046	0.018
6/25/2024 12:00	0.049	0.017
6/25/2024 12:01	0.045	0.018
6/25/2024 12:02	0.044	0.018
6/25/2024 12:03	0.046	0.018
6/25/2024 12:04	0.042	0.018
6/25/2024 12:05	0.051	0.017
6/25/2024 12:06	0.049	0.019
6/25/2024 12:07	0.048	0.018

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 12:08	0.052	0.018
6/25/2024 12:09	0.048	0.018
6/25/2024 12:10	0.05	0.018
6/25/2024 12:11	0.048	0.018
6/25/2024 12:12	0.049	0.019
6/25/2024 12:13	0.043	0.018
6/25/2024 12:14	0.046	0.02
6/25/2024 12:15	0.051	0.018
6/25/2024 12:16	0.049	0.017
6/25/2024 12:17	0.054	0.017
6/25/2024 12:18	0.05	0.017
6/25/2024 12:19	0.055	0.017
6/25/2024 12:20	0.06	0.017
6/25/2024 12:21	0.056	0.017
6/25/2024 12:22	0.054	0.017
6/25/2024 12:23	0.052	0.017
6/25/2024 12:24	0.05	0.017
6/25/2024 12:25	0.058	0.018
6/25/2024 12:26	0.054	0.017
6/25/2024 12:27	0.058	0.017
6/25/2024 12:28	0.055	0.017
6/25/2024 12:29	0.06	0.017
6/25/2024 12:30	0.07	0.017
6/25/2024 12:31	0.074	0.017
6/25/2024 12:32	0.086	0.017
6/25/2024 12:33	0.078	0.017
6/25/2024 12:34	0.07	0.017
6/25/2024 12:35	0.076	0.017
6/25/2024 12:36	0.08	0.018
6/25/2024 12:37	0.074	0.018
6/25/2024 12:38	0.078	0.017
6/25/2024 12:39	0.081	0.017
6/25/2024 12:40	0.074	0.017
6/25/2024 12:41	0.079	0.019
6/25/2024 12:42	0.076	0.018
6/25/2024 12:43	0.074	0.016
6/25/2024 12:44	0.074	0.015
6/25/2024 12:45	0.075	0.015
6/25/2024 12:46	0.076	0.015
6/25/2024 12:47	0.075	0.015
6/25/2024 12:48	0.077	0.015

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 12:49	0.073	0.015
6/25/2024 12:50	0.072	0.015
6/25/2024 12:51	0.076	0.016
6/25/2024 12:52	0.073	0.015
6/25/2024 12:53	0.073	0.015
6/25/2024 12:54	0.07	0.015
6/25/2024 12:55	0.068	0.015
6/25/2024 12:56	0.065	0.015
6/25/2024 12:57	0.062	0.014
6/25/2024 12:58	0.066	0.016
6/25/2024 12:59	0.062	0.015
6/25/2024 13:00	0.063	0.014
6/25/2024 13:01	0.064	0.018
6/25/2024 13:02	0.065	0.017
6/25/2024 13:03	0.061	0.014
6/25/2024 13:04	0.056	0.014
6/25/2024 13:05	0.06	0.014
6/25/2024 13:06	0.056	0.014
6/25/2024 13:07	0.057	0.014
6/25/2024 13:08	0.057	0.014
6/25/2024 13:09	0.062	0.014
6/25/2024 13:10	0.058	0.014
6/25/2024 13:11	0.063	0.014
6/25/2024 13:12	0.05	0.013
6/25/2024 13:13	0.056	0.014
6/25/2024 13:14	0.055	0.014
6/25/2024 13:15	0.05	0.014
6/25/2024 13:16	0.052	0.014
6/25/2024 13:17	0.061	0.013
6/25/2024 13:18	0.055	0.014
6/25/2024 13:19	0.059	0.014
6/25/2024 13:20	0.058	0.015
6/25/2024 13:21	0.058	0.014
6/25/2024 13:22	0.06	0.016
6/25/2024 13:25	0.066	
6/25/2024 13:26	0.066	0.014
6/25/2024 13:27	0.057	0.014
6/25/2024 13:28	0.06	0.014
6/25/2024 13:29	0.064	0.014
6/25/2024 13:30	0.069	0.015
6/25/2024 13:31	0.068	0.015

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 13:32	0.066	0.016
6/25/2024 13:33	0.071	0.015
6/25/2024 13:34	0.072	0.014
6/25/2024 13:35	0.069	0.014
6/25/2024 13:36	0.072	0.014
6/25/2024 13:37	0.074	0.014
6/25/2024 13:38	0.078	0.014
6/25/2024 13:39	0.075	0.015
6/25/2024 13:40	0.079	0.014
6/25/2024 13:41	0.08	0.018
6/25/2024 13:42	0.101	0.017
6/25/2024 13:43	0.084	0.016
6/25/2024 13:44	0.09	0.016
6/25/2024 13:45	0.097	0.015
6/25/2024 13:46	0.1	0.015
6/25/2024 13:47	0.111	0.015
6/25/2024 13:48	0.121	0.016
6/25/2024 13:49	0.115	0.017
6/25/2024 13:50	0.118	0.017
6/25/2024 13:51	0.114	0.017
6/25/2024 13:52	0.117	0.015
6/25/2024 13:53	0.105	0.014
6/25/2024 13:54	0.108	0.015
6/25/2024 13:55	0.107	0.016
6/25/2024 13:56	0.103	0.016
6/25/2024 13:57	0.097	0.016
6/25/2024 13:58	0.09	0.017
6/25/2024 13:59	0.085	0.016
6/25/2024 14:00	0.083	0.015
6/25/2024 14:01	0.089	0.015
6/25/2024 14:02	0.086	0.014
6/25/2024 14:03	0.086	0.017
6/25/2024 14:04	0.087	0.018
6/25/2024 14:05	0.079	0.016
6/25/2024 14:09	0.068	
6/25/2024 14:10	0.053	0.014
6/25/2024 14:11	0.058	0.014
6/25/2024 14:12	0.064	0.015
6/25/2024 14:13	0.059	0.014
6/25/2024 14:14	0.051	0.016
6/25/2024 14:15	0.049	0.021

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 14:16	0.049	0.021
6/25/2024 14:17	0.033	0.021
6/25/2024 14:18	0.04	0.021
6/25/2024 14:19	0.035	0.018
6/25/2024 14:20	0.037	0.016
6/25/2024 14:21	0.037	0.014
6/25/2024 14:22	0.035	0.014
6/25/2024 14:23	0.032	0.015
6/25/2024 14:24	0.034	0.016
6/25/2024 14:25	0.028	0.015
6/25/2024 14:26	0.023	0.013
6/25/2024 14:27	0.018	0.014
6/25/2024 14:28	0.021	0.014
6/25/2024 14:29	0.027	0.014
6/25/2024 14:30	0.021	0.015
6/25/2024 14:31	0.014	0.016
6/25/2024 14:32	0.004	0.016
6/25/2024 14:33	0.001	0.017
6/25/2024 14:34	0	0.014
6/25/2024 14:35	0.002	0.016
6/25/2024 14:36	0	0.016
6/25/2024 14:37	0	0.017
6/25/2024 14:38	0	0.018
6/25/2024 14:39	0	0.018
6/25/2024 14:40	0	0.021
6/25/2024 14:41	0.007	0.021
6/25/2024 14:42	0.001	0.021
6/25/2024 14:43	0	0.019
6/25/2024 14:44	0	0.018
6/25/2024 14:45	0.001	0.019
6/25/2024 14:46	0.004	0.028
6/25/2024 14:47	0	0.024
6/25/2024 14:48	0.006	0.023
6/25/2024 14:49	0	0.022
6/25/2024 14:50	0	0.023
6/25/2024 14:51	0	0.018
6/25/2024 14:52	0	0.017
6/25/2024 14:53	0.003	0.018
6/25/2024 14:54	0	0.018
6/25/2024 14:55	0	0.017
6/25/2024 14:56	0	0.018

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 14:57	0	0.018
6/25/2024 14:58	0	0.017
6/25/2024 14:59	0	0.019
6/25/2024 15:00	0	0.016
6/25/2024 15:01	0	0.016
6/25/2024 15:02	0	0.014
6/25/2024 15:03	0	0.014
6/25/2024 15:04	0	0.014
6/25/2024 15:05	0	0.013
6/25/2024 15:06	0	0.013
6/25/2024 15:07	0	0.013
6/25/2024 15:08	0	0.013
6/25/2024 15:09	0	0.013
6/25/2024 15:10	0	0.014
6/25/2024 15:11	0	0.013
6/25/2024 15:12	0	0.014
6/25/2024 15:13	0	0.014
6/25/2024 15:14	0	0.014
6/25/2024 15:15	0	0.014
6/25/2024 15:16	0	0.014
6/25/2024 15:17	0	0.014
6/25/2024 15:18	0	0.014
6/25/2024 15:19	0	0.014
6/25/2024 15:20	0	0.015
6/25/2024 15:21	0	0.014
6/25/2024 15:22	0	0.015
6/25/2024 15:23	0	0.015
6/25/2024 15:24	0	0.015
6/25/2024 15:25	0	0.015
6/25/2024 15:26	0	0.015
6/25/2024 15:27	0	0.015
6/25/2024 15:28	0	0.014
6/25/2024 15:29	0	0.015
6/25/2024 15:30	0	0.015
6/25/2024 15:31	0	0.013
6/25/2024 15:32	0	0.013
6/25/2024 15:33	0	0.014
6/25/2024 15:34	0	0.013
6/25/2024 15:35	0	0.013
6/25/2024 15:36	0	0.013
6/25/2024 15:37	0	0.012

Downwind CAMP Data

Device	RAE RS232(A) 2B553545	DustTrak RS232(C) 2B553545
Timestamp (America/New_York)	VOC (ppm)	Mass Conc. Total (mg/m³)
6/25/2024 15:38	0	0.013
6/25/2024 15:39	0	0.013
6/25/2024 15:40	0	0.012
6/25/2024 15:41	0	0.012
6/25/2024 15:42	0	0.012
6/25/2024 15:43	0	0.012
6/25/2024 15:44	0	0.012
6/25/2024 15:45	0	0.012
6/25/2024 15:46	0	0.012
6/25/2024 15:47	0	0.012
6/25/2024 15:48	0	0.012
6/25/2024 15:49	0	0.012
6/25/2024 15:50	0	0.012
6/25/2024 15:51	0.002	0.012
6/25/2024 15:52	0	0.011
6/25/2024 15:53	0.005	0.011
6/25/2024 15:54	0.01	0.011
6/25/2024 15:55	0.023	0.011
6/25/2024 15:56	0.029	0.011
6/25/2024 15:57	0.031	0.011
6/25/2024 15:58	0.036	0.011
6/25/2024 15:59	0.034	0.016
6/25/2024 16:00	0.049	0.058
6/25/2024 16:01	0.045	0.058
6/25/2024 16:02	0.047	0.058
6/25/2024 16:03	0.048	0.058
6/25/2024 16:04	0.049	0.058
6/25/2024 16:05	0.052	0.058
6/25/2024 16:06	0.056	0.058
6/25/2024 16:07	0.055	0.058
6/25/2024 16:08	0.066	0.058
6/25/2024 16:09	0.049	0.058
6/25/2024 16:10	0.064	0.058

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/25/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/25/2024
Chris Finn	Labella	Chris Finn	6/25/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar Utility Pole Installation	**DATE:**	6/26/2024
LaBella JOB NO.:	#2241401	**Day of Week:**	S M T **W** T F S
CLIENT:	Elk Street Commerce Park	**I.R. No.:**	----------
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Chris Finn, Brent Miller, Ben Napieralski - LaBella		
PHOTOS TAKEN:	YES	**Weather:**	
		Sun **AM**	Sun **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED

0800 LaBella on-site, no sub-surface work occurring today.

0830 Work to remove concrete forms using a skid-steer and pry bar has begun.

1000 Concrete form removal on-going.

1030 Waste characterization sampling of the soil stockpile collected.

1200 Break for lunch

1300 Concrete form removal continues.

1430 All concrete forms removed.

1600 LaBella off-site

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/26/2024 06:30

Description of Work: Oversight and CAMP Monitoring. Utility pole excavtion.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/26/2024
Chris Finn	Labella	Chris Finn	6/26/2024
Ben Napieralski	Labella	Ben Napieralski	6/26/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	June 27, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 of 1
	Brent Miller-LaBella		
	Ben Napieralski-LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Sunny **AM**	Sunny **PM**
		Temperature:	
		70s **AM**	80s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0645-LaBella on-site

0700-Tailgate meeting.

0730-Start work for the day. Continue to work on the pole excavations. Prepare materials for the next location.

1200-lunch.

1230-Clean up and grade out the work area. Pick up trash and debris. Secure the poly on the soil pile.

1545-Offsite.

LaBella
Powered by partnership.

Morning Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow
23°F
-5°C

Humidity	68%
Wind Speed	E 15 mph
Barometer	30.34 in (1028.6 mb)
Dewpoint	14°F (-10°C)
Visibility	5.00 mi
Wind Chill	10°F (-12°C)
Last update	22 Mar 10:54 am EDT

Afternoon Weather Forecast

Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
Lat: 42.94°N **Lon:** 78.74°W **Elev:** 709ft.



Light Snow Fog/Mist
24°F
-4°C

Humidity	84%
Wind Speed	NE 9 mph
Barometer	30.24 in (1025.4 mb)
Dewpoint	20°F (-7°C)
Visibility	0.50 mi
Wind Chill	14°F (-10°C)
Last update	22 Mar 1:54 pm EDT

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 06/27/2024 07:00

Description of Work: Utility pole excavtion. **Site**

Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

_____

_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	6/27/2024
Ben Napieralski	Labella	Ben Napieralski	6/27/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	July 10, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T **W** T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	Yes	**Weather:**	
		Sunny **AM**	Sunny **PM**
		Temperature:	
		70s **AM**	80s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0800-LaBella on-site. Tailgate safety meeting.

Grade the road and area around the electrical ductbank.

1100-Off site.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 07/10/2024 08:00

Description of Work: Utility pole excavtion. **Site**
Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____
_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____
_____

Site Specific Health & Safety Topics Discussed:_____
_____
_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	7/10/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	July 26, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W T **F** S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	Sunny **AM** Partly Cloudy **PM**
		Temperature:	70s **AM** 70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0800-LaBella on-site. Grade out road near the electrical ductbank and corner of road. This is for the pavers.

15:00-Offsite.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 07/26/2024 08:00

Description of Work: Utility pole excavtion. **Site**
Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____
_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____
_____

Site Specific Health & Safety Topics Discussed:_____
_____
_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	7/26/2024

Terracon Consultants – NY, Inc
461 Tonawanda Street
Buffalo, New York 14207
P (585) 247-3471
Terracon.com

Inovateus Solar LLC
19890 State Line Road
South Bend, Indiana 46637

Attn: Andrew Proctor
Director of Engineering
Dir: (574) 485-1413
Cel: (574) 383-0435
andrew.proctor@inovateus.com
http://www.inovateus.com

Re: Report of Geophysical Exploration Services
Elk Street Solar
503 Elk Street
Buffalo, New York 14210
Terracon Project No. J5235152

Dear Mr. Proctor:

As requested, Terracon recently conducted geophysical exploration services for the referenced project. The purpose of this geophysical exploration was to gather soil resistivity information needed for the Elk Street Solar project.

Geophysical Exploration Methods

Terracon used a MiniRes earth resistivity meter and the Wenner 4-point method of testing. In general, field data collection is accomplished as referenced in ASTM G57 and IEEE 81, more information on both the general method and collection procedures can be found in the standard. The two arrays were acquired at the approximate locations requested by Inovateus; minor locational adjustments were made to accommodate the size of the arrays at each location. The 'on cap' location was moved approximately 10 feet to the south and the 'off cap' location was moved approximately 45 feet to the north.

At each array two lines were collected at the site with the requested measurements of "A" spacings up to approximately 5, 10, 20 and 30 feet. To avoid the possibility of penetrating the HDPE cap at the 'on-cap' location approximately 6-inch-deep small diameter holes were hand dug (by hand not hand dug with shovels) and the electrodes were placed in a saturated paper towel to minimize the contact resistance and minimize possible liner impact. The 'off-cap' location was shovel dug to a depth of approximately 1 foot and the electrodes were driven to approximately 1 foot below that to maximize electrical connectivity.

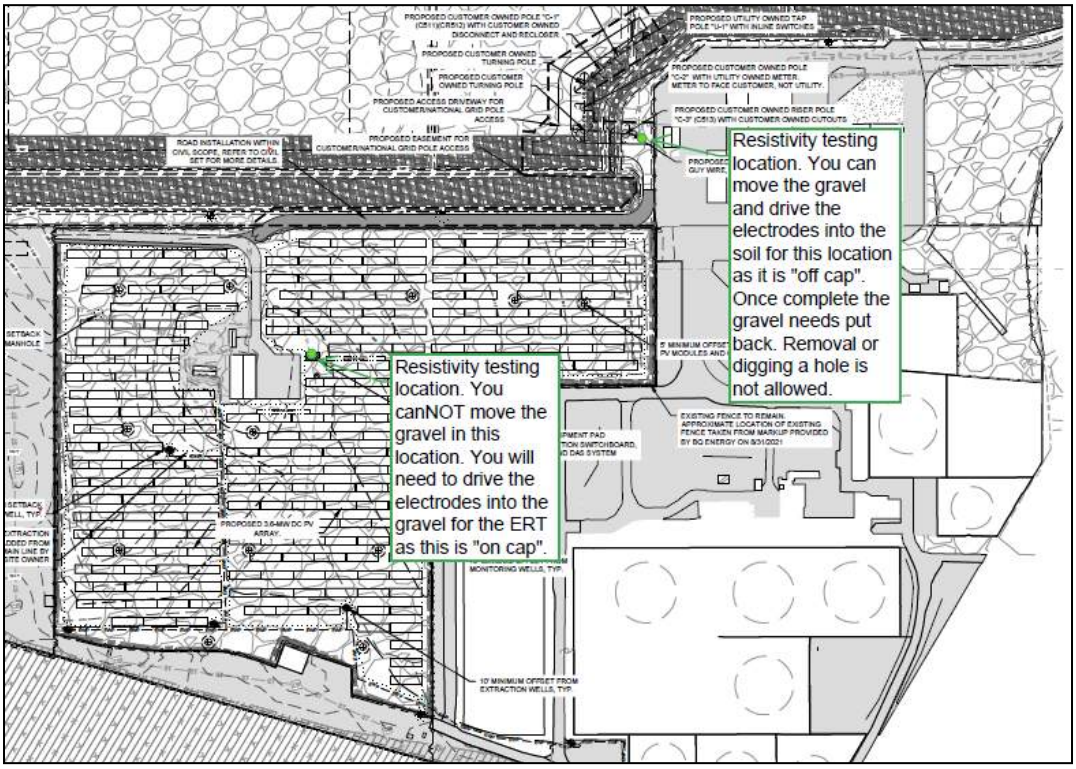


Figure 1: Resistivity Testing Location

Geophysical Findings

The coordinates of the lines as well as their approximate layout are referenced in Figure 1. The results pertaining to the requested "A" spacings are referenced in Exhibit 1.
There is a significant difference in the array 'on-cap' vs the array 'off-cap'. As mentioned during discussions prior to mobilization and in the proposal, the HDPE cap resulted in a high electrical resistance at the 'on-cap' location.

Limitations

It should be noted these geophysical processes rely on instrument signals to indicate physical conditions in the field. Signal information can be affected by on-site conditions beyond the control of the operator such as, but not limited to, soil types, soil moisture, and/or groundwater table depth. Interpretation of those signals is based on a combination of known factors combined with the experience of the operator and geophysical scientist evaluating the results. Utilizing conventional direct observation and sampling methods is recommended to confirm the results from the geophysical surveys. The geophysical results provide a level of confidence but should not be considered absolute.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geophysical practices. No warranties, either express or implied, are intended or made.

The results presented in this report are based upon the data obtained from the geophysical surveys and from other information discussed in this report. This report does not reflect variations that may occur in areas inaccessible to the geophysical equipment, across the site, or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction.

We appreciate the opportunity to work with you on this project. Please do not hesitate to contact the undersigned if you have any questions regarding this information or if we can be of further service to you.

Sincerely,
Terracon-NY, Inc.

Eric Rickert
Senior Geophysicist – Project Manager

Michele A. Fiorillo, P.E.
Department Manager

Attachments:

- Field Soil Electrical Resistivity Test Data (2 pages)

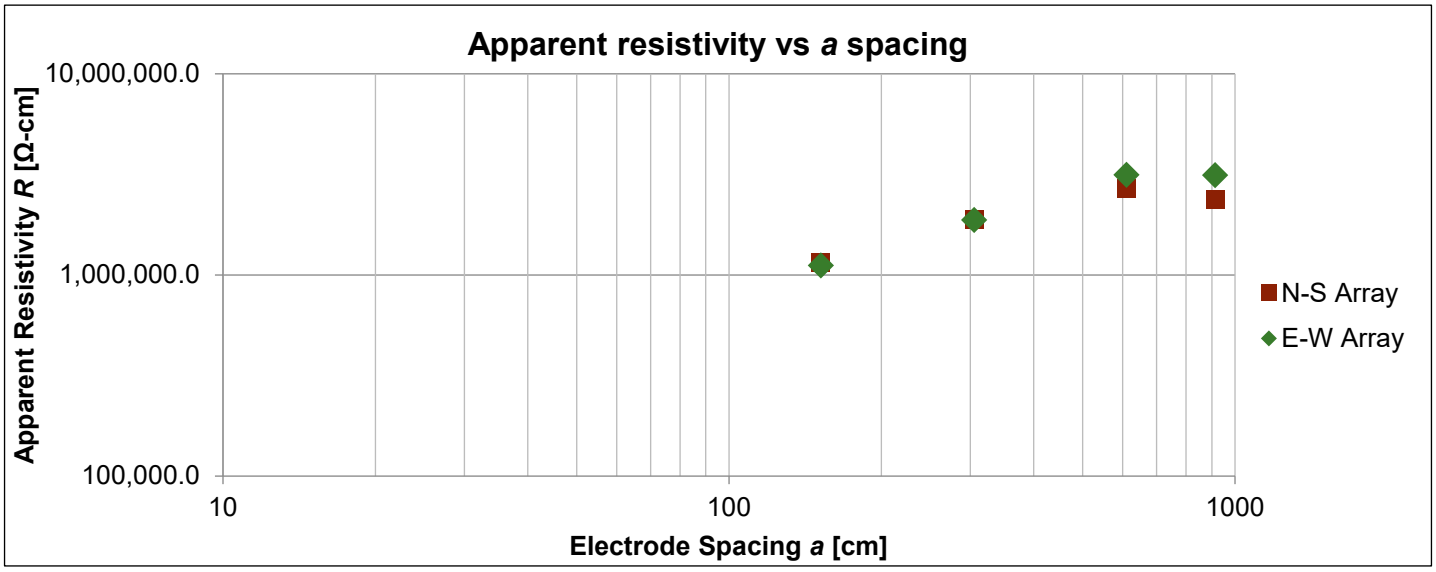
Distribution: Addressee (pdf)

Field Soil Electrical Resistivity Test Data

Array Loc.	Inovateus Solar - Elm St Solar - On Cap		
Instrument	MiniRes	**Weather**	65 degrees Hazy
Serial #	283	**Ground Cond.**	Gravel over HDPE Cap 62 degrees
Cal. Check	7/24/2023	**Tested By**	E. Rickert
Test Date	July 24, 2023	**Method**	enner 4-pin (ASTM G57-06 (2012); IEEE 81-201
Notes & Conflicts	Pins hand dug and not driven - water added for contact resistance / 42.863653N, -78.834705W		at

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi a R}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		**Electrode Depth *b***		**N-S Test**		**E-W Test**	
[feet]	[centimeters]	[inches]	[centimeters]	Measured Resistance *R* Ω	Apparent Resistivity ρ [Ω-cm]	Measured Resistance *R* Ω	Apparent Resistivity ρ [Ω-cm]
5	152	4.0	10	1,196.000	1150830	1,160.000	1116190
10	305	4.0	10	985.800	1892710	979.400	1880420
20	610	4.0	10	702.000	2691850	821.900	3151610
30	914	4.0	10	415.100	2384350	546.800	3140840

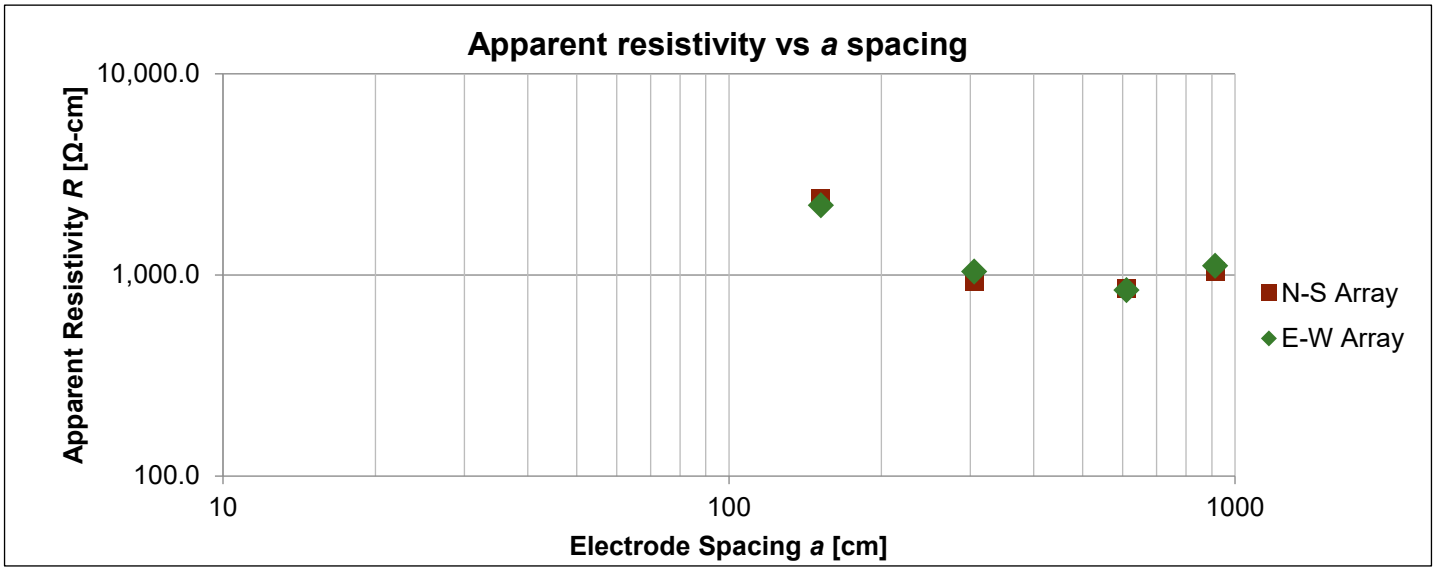


Field Soil Electrical Resistivity Test Data

Array Loc.	Inovateus Solar - Elm St Solar - Off Cap		
Instrument	MiniRes	**Weather**	72 degrees Hazy
Serial #	283	**Ground Cond.**	Gravel Driveway 66 degrees
Cal. Check	7/24/2023	**Tested By**	E. Rickert
Test Date	July 24, 2023	**Method**	enner 4-pin (ASTM G57-06 (2012); IEEE 81-201
Notes & Conflicts	Pins dug 6 inches of gravel then driven 12 inches / at 42.864200N, -78.832518W		

Apparent resistivity ρ is calculated as : $\rho = \dfrac{4\pi a R}{1 + \dfrac{2a}{\sqrt{a^2+4b^2}} - \dfrac{a}{\sqrt{a^2+b^2}}}$

Electrode Spacing *a*		**Electrode Depth *b***		**N-S Test**		**E-W Test**	
[feet]	[centimeters]	[inches]	[centimeters]	Measured Resistance *R* Ω	Apparent Resistivity ρ [Ω-cm]	Measured Resistance *R* Ω	Apparent Resistivity ρ [Ω-cm]
5	152	12.0	30	2.357	2400	2.188	2220
10	305	12.0	30	0.475	930	0.533	1040
20	610	12.0	30	0.223	860	0.219	840
30	914	12.0	30	0.181	1040	0.193	1110



DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	July 31, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T **W** T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Mostly Cloudy **AM**	Mostly Cloudy **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0700-LaBella on-site. Grade out road near the electrical ductbank and corner of road. This is for the pavers.

1200-Lunch.

1230-Clear off overburden material for the last pole location.

15:00-Offsite.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 07/31/2024 07:00

Description of Work: Utility pole excavtion. **Site**
Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	7/31/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	August 01, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W **T** F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Mostly Cloudy **AM**	Mostly Cloudy **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0700-LaBella on-site. Grade out road near the electrical ductbank and corner of road. This is for the pavers.

0800-Clear off overburden material for the last pole location.

0900-Offsite.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 08/01/2024 07:00

Description of Work: Utility pole excavtion. **Site**

Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	8/1/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	August 02, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W T **F** S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Cloudy **AM**	Cloudy **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0700-LaBella on-site.

Grade for road subbase/restoration, electrical pole installation, grade out road around electrical power ductbank. Oversight of paving contractor for final grade of road for paving.

1500-Offsit

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 08/02/2024 07:00

Description of Work: Utility pole excavtion. **Site**
Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____
_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____
_____

Site Specific Health & Safety Topics Discussed:_____
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_____

Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	8/2/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	August 05, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S **M** T W T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Partly Cloudy **AM**	Partly Cloudy **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0600-LaBella on-site.

Paving contractor is onsite and paving binder and topcoat today. Oversight of paving and help with saving location of monitoring well in the road so to not be paved over and lost.

1800-Offsite.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 08/05/2024 06:00

Description of Work: Utility pole excavtion. Oversight of paving contractor.
Site Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

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Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	8/5/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	August 07, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W **T** F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		Mostly Cloudy **AM**	Mostly Cloudy **PM**
		Temperature:	
		70s **AM**	70s **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0700-LaBella on-site.

Remove the topcoat of paving and locate MW-OU2-2. Prep for road box. Clean up trash and unused materials from the parking lot.

1300-Offsite.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 08/07/2024 07:00

Description of Work: Utility pole excavtion. **Site**
Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

_____

Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	8/7/2024

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	August 08, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 of 1
	Brent Miller – LaBella		
PHOTOS TAKEN:	No	**Weather:**	
		AM: Mostly Cloudy	PM: Mostly Cloudy
		Temperature:	
		AM: 70s	PM: 70s

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0700-LaBella on-site.

Install of new road box on MW-OU2-1 and MW-OU2-2.

1200-Offsite.

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	September 19, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W **T** F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	Andy Janik, Carly Repka, Andrew Eaton – LaBella		
	NG subcontractor		
PHOTOS TAKEN:	Yes	**Weather:**	
		Mostly Cloudy **AM**	Mostly Cloudy **PM**
		Temperature:	
		65 **AM**	82 **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0730-LaBella on-site.

Install of new NG pole within “clean corridor”.

1200-Offsite.

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	September 23, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S **M** T W T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	LaBella/NG/NG Contractor/Nat.Vac./ESG		
PHOTOS TAKEN:	Yes	**Weather:**	
			Light Rain **AM** Mostly Cloudy **PM**
		Temperature:	
			65 **AM** 78 **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0640 - LaBella on-site.

Set up CAMP monitoring.

Safety/scope discussion with all parties.

Install of new NG pole within “clean corridor”. Soft dig excavation begins.

1200 - Last pole has been installed.

1400 – All offsite.

DAILY INSPECTION REPORT

JOB TITLE:	Elk Street Solar	**DATE:**	September 24, 2024
LaBella JOB NO.:	2241401	**Day of Week:**	S M T W T F S
CLIENT:	Elk Street Solar	**I.R. No.:**	
CONTRACTOR:	LaBella	**Sheet No.**	1 **of** 1
	LaBella/Milestone		
PHOTOS TAKEN:	Yes	**Weather:**	Light Rain **AM** Mostly Cloudy **PM**
		Temperature:	63 **AM** 75 **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0645 - LaBella on-site. General clean up of debris from pole install on 9/23/24

0830 – Milestone onsite. Discussion of safety/scope. Milestone to feather in sides along new pavement, build access ramp over piping in south-central area of array, rip rap over swale piping, and clean up of wash out pit.

1400 – All offsite.

LaBella
Powered by partnership.

DAILY SAFETY TAILGATE /TOOLBOX MEETING FORM

Site: Elk Street Solar **Date & Time:** 08/08/2024 07:00

Description of Work: Utility pole excavtion. **Site**

Supervisor: Brent Miller

REQUIRED EMERGENCY RESPONSE ITEMS ON-SITE

☒ HASP	☒ First-Aid Kit	☒ Eye wash bottle/station	☒ Fire Extinguisher

Potential Hazards

☐ Pinch Points	☒ Rotating Equipment	☐ Boom Swing	☐ Hand and Power Tools
☐ Sharps Edges / Impalement	☒ Excavation	☐ Suspended Loads	☐ Spills
☒ Heat/Cold Stress/ Weather	☐ Confined Space	☐ Rigging	☐ Pressure Lines
☐ Handling Rods / Casing	☒ One Call / Underground Utilities	☐ Material Handling/Lifting	☐ Electrical - General
☐ Vibration	☐ Slopes / Terrain	☐ Hot Works	☐ Electrical - Power lines
☐ Repetitive Motion	☒ Vehicle Safety / Traffic	☒ Heavy Equipment	☐ Grout Burns
☒ Noise	☐ Tracking Equipment	☐ Overhead Work	☐ Dust / Mist / Fumes
☐ Pois. Plants / Animals / Insect	☐ Congested Area	☐ Working at Heights	☐ Silica
☒ slippery surf.- icy/wet /muddy	☐ Loading / Unloading Equipment	☒ Trip / Slip / Fall Hazards	☐ Chemical Exposure

Other_____

_____

Required PPE and Safety Precautions

☒ Safety Glasses	☐ Utility One-Call	☐ Crane Mats	☐ Point of Operation Guards
☒ Hard Hat	☐ Personal Fall Arrest System	☐ Taglines	☐ Whipchecks
☒ Safety Boots	☐ Personal Flotation Device	☐ Spotter / Qualified Signal Person	☐ Back-up Alarms
☒ Gloves	☐ Hearing Protection	☐ Lockout-Tagout	☐ Visqueen / Silt Fencing
☒ Safety Vest	☒ Fire Extinguisher	☐ GFCI's	☐ Fuel Containment
☐ Face / Welding Shield	☐ Fire Watch	☐ Confined Space Attendant	☐ Spill Kit
☐ Respirator	☐ Barricades / Warning Signs	☐ Atmospheric Monitoring	☐ Topical Creams / Repellants
☐ FR Clothing	☐ Guardrails / Hole Covers	☐ Ladders Tied off / Spotted	☒ First Aid / Eye Wash

Other_____

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Site Specific Health & Safety Topics Discussed:_____

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Name	Company	Sign	Date
Brent Miller	Labella	Brent Miller	8/8/2024

DAILY INSPECTION REPORT

JOB TITLE: Waste Load Out
DATE: December 4, 2025
LaBella JOB NO.: 2251277
Day of Week: S M T **W** T F S
CLIENT: ESCP
I.R. No.:
CONTRACTOR:
Sheet No. 1 **of** 1

Carly Repka – LaBella

PHOTOS TAKEN: Yes

Weather:
Snow **AM** Snow **PM**

Temperature:
20s **AM** **PM**

DESCRIPTION OF WORK PERFORMED AND INSPECTED:

0730 – LaBella on-site

0800 – Trucking on site to begin loadout

0815 – CAMP turned on and soil load out began

1200 – A total of 3 truck loads were sent to the landfill for disposal, CAMP turned off

LaBella
Powered by partnership.

Weather Forecast

December 04, 2024

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	+34°	+27°	29.5	SW 9.6	86%
Morning	+28°	+16°	29.4	S 16.1	73%
Day	+34°	+21°	29.1	S 17.4	72%
Evening	+34°	+21°	28.9	S 20.8	78%






CAT


UNIVERSAL ENGINE
CAT 930M

Instrument	DustTrak II
Model Nun	8530
Serial Num	8.53E+09
Firmware V	3.1
Calibration	10/11/24
Test Name	MANUAL_001
Test Start T	8:16 AM
Test Start D	12/4/24
Test Length	0:04:13
Test Interva	1:00
Mass Avera	0.023
Mass Minir	0.018
Mass Maxi	0.043
Mass TWA	0.012
Photometr	1
Flow User C	0
Errors	
Number of	253

Elapsed Tir	Mass [mg/r	Alarms	Errors
60	0.043		
120	0.027		
180	0.026		
240	0.028		
300	0.026		
360	0.026		
420	0.026		
480	0.026		
540	0.026		
600	0.026		
660	0.026		
720	0.026		
780	0.026		
840	0.027		
900	0.027		
960	0.027		
1020	0.027		
1080	0.028		
1140	0.029		
1200	0.028		
1260	0.028		
1320	0.028		
1380	0.028		
1440	0.028		

1500	0.028
1560	0.028
1620	0.028
1680	0.031
1740	0.028
1800	0.028
1860	0.028
1920	0.028
1980	0.028
2040	0.028
2100	0.028
2160	0.028
2220	0.028
2280	0.028
2340	0.028
2400	0.028
2460	0.027
2520	0.029
2580	0.027
2640	0.027
2700	0.027
2760	0.027
2820	0.026
2880	0.026
2940	0.026
3000	0.027
3060	0.026
3120	0.027
3180	0.027
3240	0.026
3300	0.026
3360	0.026
3420	0.026
3480	0.028
3540	0.026
3600	0.026
3660	0.026
3720	0.025
3780	0.025
3840	0.025
3900	0.025
3960	0.025
4020	0.025
4080	0.025

4140	0.024
4200	0.024
4260	0.024
4320	0.024
4380	0.024
4440	0.024
4500	0.024
4560	0.024
4620	0.023
4680	0.023
4740	0.024
4800	0.023
4860	0.023
4920	0.023
4980	0.023
5040	0.023
5100	0.023
5160	0.023
5220	0.023
5280	0.023
5340	0.023
5400	0.023
5460	0.023
5520	0.023
5580	0.023
5640	0.023
5700	0.023
5760	0.023
5820	0.023
5880	0.023
5940	0.024
6000	0.024
6060	0.024
6120	0.023
6180	0.023
6240	0.023
6300	0.023
6360	0.023
6420	0.024
6480	0.024
6540	0.023
6600	0.024
6660	0.023
6720	0.023

6780	0.023
6840	0.024
6900	0.023
6960	0.023
7020	0.023
7080	0.023
7140	0.023
7200	0.023
7260	0.023
7320	0.023
7380	0.023
7440	0.023
7500	0.023
7560	0.023
7620	0.023
7680	0.023
7740	0.023
7800	0.023
7860	0.023
7920	0.025
7980	0.025
8040	0.027
8100	0.027
8160	0.026
8220	0.026
8280	0.025
8340	0.024
8400	0.023
8460	0.023
8520	0.023
8580	0.023
8640	0.023
8700	0.022
8760	0.023
8820	0.022
8880	0.022
8940	0.022
9000	0.022
9060	0.022
9120	0.022
9180	0.022
9240	0.021
9300	0.021
9360	0.021

9420	0.021
9480	0.021
9540	0.02
9600	0.02
9660	0.02
9720	0.021
9780	0.022
9840	0.021
9900	0.021
9960	0.022
10020	0.021
10080	0.021
10140	0.02
10200	0.02
10260	0.021
10320	0.021
10380	0.021
10440	0.021
10500	0.021
10560	0.021
10620	0.02
10680	0.021
10740	0.02
10800	0.02
10860	0.02
10920	0.02
10980	0.02
11040	0.02
11100	0.02
11160	0.02
11220	0.02
11280	0.02
11340	0.02
11400	0.02
11460	0.021
11520	0.021
11580	0.02
11640	0.02
11700	0.02
11760	0.02
11820	0.02
11880	0.019
11940	0.02
12000	0.02

12060	0.02
12120	0.019
12180	0.019
12240	0.02
12300	0.02
12360	0.019
12420	0.019
12480	0.019
12540	0.019
12600	0.019
12660	0.019
12720	0.019
12780	0.019
12840	0.019
12900	0.019
12960	0.019
13020	0.019
13080	0.019
13140	0.019
13200	0.019
13260	0.019
13320	0.019
13380	0.019
13440	0.019
13500	0.019
13560	0.019
13620	0.019
13680	0.019
13740	0.019
13800	0.019
13860	0.025
13920	0.02
13980	0.019
14040	0.019
14100	0.019
14160	0.019
14220	0.019
14280	0.019
14340	0.018
14400	0.019
14460	0.018
14520	0.018
14580	0.018
14640	0.018

14700	0.019
14760	0.018
14820	0.018
14880	0.018
14940	0.018
15000	0.018
15060	0.018
15120	0.018
15180	0.018

APPENDIX 6

Imported Fill Material Documentation

DEC Approval for 500 ton

Elk Street Solar
2" Run-of-Crusher

Date	Trucking Company	Material	Tonnage	Approval (Yes/No)	Source
3/21/2024	County Line Stone Co., Inc.	CR-2	21.26	Yes	County Line Stone Co., Inc.
3/21/2024	County Line Stone Co., Inc.	CR-2	19.80	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	22.27	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	20.25	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	21.35	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	23.09	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	20.22	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	21.53	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	20.50	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	CR-2	22.39	Yes	County Line Stone Co., Inc.

Total Tonnage: 212.66

These totals reflect the material imported to the site by LaBella LLC and Milestone Construction.

256336

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001
OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670
CRUSHED STONE AG LIME BLACK TOP

Ticket No. 1-256336

P.O. _____

Customer MILESTONE CONST. PARTNERS,INC. Date 03/21/24

Job Site ELK ST., BUFFALO Time 12:43:05

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
42,520.00	21.26 TN 19.26 Mg		

Trucking

Hauler _____

Tax NYE

Trucker NCH40

Total

Gross _____ Tare _____

Driver Signature

REMARKS

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

Loads : 1

Tonnage: 21.26

Our Responsibility Ends at the Scale

256359

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001
OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670
CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256359

Customer MILESTONE CONST. PARTNERS,INC. Date 03/21/24

Job Site ELK ST., BUFFALO Time 14:19:00

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
39,600.00	19.80 TN 17.94 Mg		

Trucking

Hauler _____

Tax NYE

Trucker NCH40

Total

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 2

Tonnage: 41.06

Our Responsibility Ends at the Scale

256384

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256384

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 07:49:47

Job Site Id 5275.001 Weigh Master Bailey

Deliver To ,

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
44,540.00	22.27 TN 20.18 Mg		

Hauler _____ Trucking

Trucker NCH44 Tax NYE

Gross _____ Tare _____ Total

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 1

Tonnage: 22.27

Our Responsibility Ends at the Scale

256386

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256386

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 07:55:03

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
40,500.00	20.25 TN 18.35 Mg		

Hauler _____ Trucking

Trucker CURT24 Tax NYE

Gross _____ Tare _____ Total

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 2

Tonnage: 42.52

Our Responsibility Ends at the Scale

256388

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256388

Customer MILESTONE CONST. PARTNERS,INC Date 03/22/24

Job Site ELK ST., BUFFALO Time 07:58:10

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
42,708.00	21.35 TN 19.35 Mg		

Trucking

Hauler _____

Tax NYE

Trucker NCH40

Total

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 3

Tonnage: 63.87

Our Responsibility Ends at the Scale

256391

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256391

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 08:05:35

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
46,180.00	23.09 TN 20.92 Mg		

Hauler _____ Trucking

Trucker NCH54 Tax NYE

Total

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 4

Tonnage: 86.96

Our Responsibility Ends at the Scale

2

256419

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256419

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 09:51:39

Job Site Id 5275.001 Weigh Master Bailey

Deliver To ,

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
40,440.00	20.22 TN 18.32 Mg		

Hauler _____ Trucking

Trucker CURT24 Tax NYE

Gross _____ Tare _____ Total

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 5

Tonnage: 107.18

Our Responsibility Ends at the Scale

256421

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____

Ticket No. 1-256421

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 10:05:24

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
43,052.00	21.53 TN 19.50 Mg		
		Trucking	
		Tax	NYE
		Total	

Hauler _____

Trucker NCH54

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed Amount _____ Hours _____ Minutes

REMARKS

Loads : 6

Tonnage: 128.71

Our Responsibility Ends at the Scale

3

256443

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256443

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 11:22:46

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
41,000.00	20.50 TN 18.57 Mg		

Trucking

Tax NYE

Total

Hauler _____

Trucker CURT24

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 7

Tonnage: 149.21

Our Responsibility Ends at the Scale

256449

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

Ticket No. 1-256449

P.O. _____

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 11:47:14

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material CR-2

Pounds	Tons	Unit Price	Amount
44,780.00	22.39 TN 20.29 Mg		

Trucking

Hauler _____

Tax NYE

Trucker NCH54

Total

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 8

Tonnage: 171.6

Our Responsibility Ends at the Scale

Our Responsibility Ends at the Scale

DEC Approval for 500 ton

Elk Street Solar
Surge Stone

Date	Trucking Company	Material	Tonnage	Approval (Yes/No)	Source
3/22/2024	County Line Stone Co., Inc.	Surge	22.67	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	Surge	21.20	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	Surge	23.09	Yes	County Line Stone Co., Inc.
3/22/2024	County Line Stone Co., Inc.	Surge	20.67	Yes	County Line Stone Co., Inc.

Total Tonnage: 87.63

These totals reflect the material imported to the site by LaBella LLC and Milestone Construction.

256410

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256410

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 09:25:07

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material SURGE

Pounds	Tons	Unit Price	Amount
45,348.00	22.67 TN 20.54 Mg		
		Trucking	
		Tax	NYE
		Total	

Hauler _____

Trucker NCH44

Gross _____ Tare _____

Driver Signature

REMARKS

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours Minutes

Allowed _____

Amount _____ Hours Minutes

Loads : 1

Tonnage: 22.67

Our Responsibility Ends at the Scale

256411

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256411

Customer MILESTONE CONST. PARTNERS,INC Date 03/22/24

Job Site ELK ST., BUFFALO Time 09:26:52

Job Site Id 5275.001 Weigh Master Bailey

Deliver To ,

Customer Signature

Material SURGE

Pounds	Tons	Unit Price	Amount
42,396.00	21.20 TN 19.21 Mg		

Trucking

Tax NYE

Total

Hauler _____

Trucker NCH40

Gross _____ Tare _____

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 2

Tonnage: 43.87

Our Responsibility Ends at the Scale

256436

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

Ticket No. 1-256436

P.O. _____

Customer MILESTONE CONST. PARTNERS,INC. Date 03/22/24

Job Site ELK ST., BUFFALO Time 11:02:43

Job Site Id 5275.001 Weigh Master Bailey

Deliver To _____

Customer Signature

Material SURGE

Pounds	Tons	Unit Price	Amount
46,180.00	23.09 TN 20.92 Mg		
		Trucking	
			NYE
		Tax	
		Total	

Hauler _____

Trucker NCH44

Gross _____ Tare _____

Driver Signature

REMARKS

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours Minutes

Allowed _____

Amount _____ Hours Minutes

Loads : 3

Tonnage: 66.96

Our Responsibility Ends at the Scale

256437

County Line STONE Co., Inc.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

OFFICE (716) 542-5435 SCALE (716) 442-5512 DISPATCH (716) 970-5670

CRUSHED STONE AG LIME BLACK TOP

P.O. _____ Ticket No. 1-256437

Customer MILESTONE CONST. PARTNERS,INC Date 03/22/24

Job Site ELK ST., BUFFALO Time 11:04:15

Job Site Id 5275.001 Weigh Master Bailey

Deliver To ,

Customer Signature

Material SURGE

Pounds	Tons	Unit Price	Amount
41,340.00	20.67 TN 18.73 Mg		

Hauler _____ Trucking

Trucker NCH40 Tax NYE

Gross _____ Tare _____ Total

Driver Signature

Waiting Time

Finish Job _____

Arrive Job _____

Difference _____ Hours _____ Minutes

Allowed _____

Amount _____ Hours _____ Minutes

REMARKS

Loads : 4

Tonnage: 87.63

Our Responsibility Ends at the Scale

New Enterprise Stone & Lime Co., Inc.

Buffalo, NY 14227
(716) 826-7310

INVOICE

Invoice No.
8358186
Invoice Date
6/25/2024

INVOICE

Sold To: LaBella Associates DPC
300 State ST Ste 201
Rochester , NY 14641

Ship To:
, NY

SERVICE CHARGE OF 1 1/2% PER MONTH (18% PER ANNUM) WILL BE APPLIED TO THE ACCOUNT ON ALL PAST DUE INVOICES.

TERMS	ACCT. NO.
Net 30 Days	91767

PURCHASE ORDER	SALES ORDER	PLANT
2024 1 Babcock St Buffalo	1000421944	54230100 Wehrle Aggregates

JOB NO.	JOB NAME
2024 1 Babcock St Buffalo	2024 1 Babcock St Buffalo

Date	Ticket	Description	Qty	Unit
6/25/2024	50260045	STONE, 2" CRUSHER RUN	22.82	Ton
6/25/2024	50260045	FREIGHT	22.82	Ton
6/25/2024	50260108	STONE, 2" CRUSHER RUN	22.97	Ton
6/25/2024	50260108	FREIGHT	22.97	Ton

Received By
LaBella Associates, P.C.
JUL 01 2024

Client: _____
Proj.#: _____

MAIL TO: **New Enterprise Stone & Lime Co., Inc.**
PO BOX 645211
Pittsburgh, PA 15264-5211

Amount Remitted $_____

-AUTO EMAILING NOW AVAILABLE-
Avoid waiting for the USPS Mail to arrive
Please contact Heather Long to be set up, hlong@nesl.com

Customer: LaBella Associates DPC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

March 20, 2024

Andy Janik
LaBella Associates
300 Pearl Street, Suite 130
Buffalo, New York 14202

Dear Andy Janik:

Site Management (SM)
Import Request
ExxonMobil Oil Former Buffalo Terminal
OU-2 East
Buffalo, Erie County, Site No.: **C915201B**

The Department has reviewed your request dated March 19, 2024 to import approximately 500 cubic yards of 2" run-of-crusher and approximately 200 cubic yards of surge stone from County Line Stone Co., Inc. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

ec: Megan Drean, Inovateus
Todd Collins, Inovateus
Matthew Beres, Milestone Construction Partners
Matthew Pearson, Elk Street Commerce Park, LLC
Christopher Finn, LaBella Associates

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

March 25, 2024

Andy Janik
LaBella Associates
300 Pearl Street, Suite 130
Buffalo, New York 14202

Dear Andy Janik:

Site Management (SM)
Import Request
ExxonMobil Oil Former Buffalo Terminal
OU-2 East
Buffalo, Erie County, Site No.: **C915201B**

The Department has reviewed your request dated March 25, 2024 to import approximately 200 cubic yards of concrete sand from County Line Stone Co., Inc. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

MK/ds

ec: Megan Drean, Inovateus
Todd Collins, Inovateus
Matthew Beres, Milestone Construction Partners
Matthew Pearson, Elk Street Commerce Park, LLC
Christopher Finn, LaBella Associates

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

June 25, 2024

Andy Janik
LaBella Associates
300 Pearl Street, Suite 130
Buffalo, New York 14202

Dear Andy Janik:

Site Management (SM) –
Import Request
ExxonMobil Oil Former Buffalo Terminal OU-3
Buffalo, Erie County, Site No.: **C915201D**

The Department has reviewed your request dated June 24, 2024 to import approximately 100 cubic yards of 2" run-of-crusher from New Enterprise Stone & Lime Co, Inc. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

MK/ds

ec: Megan Drean, Inovateus
Todd Collins, Inovateus
Christopher Finn, LaBella Associates
Brent Miller, LaBella Associates
Matthew Pearson, Elk Street Commerce Park, LLC

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 50-100

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The import of #2 run of crusher will be utilized to restore the interconnection trench electrical duct bank and provide sub base for the access road. A gradation sheet for this material has been provided. Please refer to, "Item 304.12 - Sub base Type II", on the attached.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

New Enterprise Stone & Lime Co., Inc.

Location where fill was obtained:

500 Como Park Blvd. Buffalo, NY 14227

Identification of any state or local approvals as a fill source:

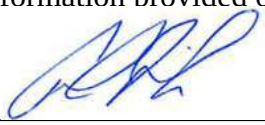
NYS Source Number 5-3R / Mining Permit Number 90018

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attached

The information provided on this form is accurate and complete.



Signature

6/24/24

Date

Andy Janik

Print Name

LaBella

Firm

NEW ENTERPRISE STONE & LIME CO., INC.

500 Como Park Boulevard • Buffalo NY 14227

Office: (716) 826-7310
Fax: (716) 826-1342
Dispatch: (716) 566-9690

June 24, 2024

Andy Janik

Labella Associates

300 Pearl St
Buffalo NY 14202

Re: Elk Street Solar

Dear Andy,

The 2" Crusher Run stone to be supplied to the above referenced project was extracted, crushed & screened at our Lancaster, NY facility. The material is produced from a virgin stone source, un-impacted by hazardous materials or contaminants and free of loom, organic matter including clay. The quarry is a NYSDOT approved source; the Wehrle Drive source number is 5-3R and our mining permit # is 90018.

Sincerely,

Robert Warrington

CME Associates, Inc.

2727 Broadway St., Suite 2
Cheektowaga, New York 14227
(716) 877-9577
(716) 877-9629 (Fax)

www.cmeassociates.com

LAB REPORT SUMMARY

PROJECT: NESL Source Pre-Qual
CLIENT: NESL
DATE: 08/15/2023

REPORT NO.: 17330L-14
REPRESENTATIVE: Austin Glasier

This CME Associates, Inc representative performed a sieve analysis and moisture density test (Modified Proctor) on a 2" R.O.C. sample BL3223 sampled by client representative and delivered to CME's Buffalo laboratory on 08/03/2023. Tests were performed in accordance with ASTM Standards C136, C117, and D1557.
The following table distinguishes your sample from some common NYSDOT items:

Sample No.:	Location:
BL3223	NESL Wehrle Dr. 5-3R

MECHANICAL ANALYSIS (ASTM C136, C117)

Sieve Size	Percent Passing by Weight Sample BL3223	Item 304.14 Subbase Type IV	Item 304.13 Subbase Type III	Item 304.12 Subbase Type II	Item 203.7 Select Granular Fill
4"	100		100		100
2"	100	100		100	
1"	93				
3/4"	85				
1/2"	68				
3/8"	58				
1/4"	47	30-65	30-75	25-60	
No. 4	42				
No. 10	27				
No. 40	12	5-40	5-40	5-40	0-70
No. 80	8				
No. 200	7.3	0-10	0-10	0-10	0-15

CLASSIFICATION

Gray cmf Gravel and cmf Sand; trace Silt/Clay

LABORATORY MOISTURE-DENSITY RELATIONSHIP (ASTM D1557)

Corrected Maximum Dry Density	=	**141.8**	**Pcf**
Corrected Optimum Moisture Content	=	**6.3**	**%**

It is recommended the engineer of record review and comment on the use of this material. Please see attached documents for lab test results.
Feel free to contact this office should you have any questions.

CME Associates, Inc.

2727 Broadway Ave, Suite #2
Buffalo, New York 14227
(716) 877-9577
(716) 877-9629 (Fax)

www.cmeassociates.com

LABORATORY TEST SUMMARY
NESL
NESL Source Pre-Qual
CME Report Number: 17330L-14
8/15/2023

The CME Associates Representative obtained a sample at the above referenced project. The sample was delivered to CME's Buffalo facility, an AASHTO[1] accredited laboratory, for a Particle Size Analysis and a Moisture Density Relationship determination. The results are as follow:

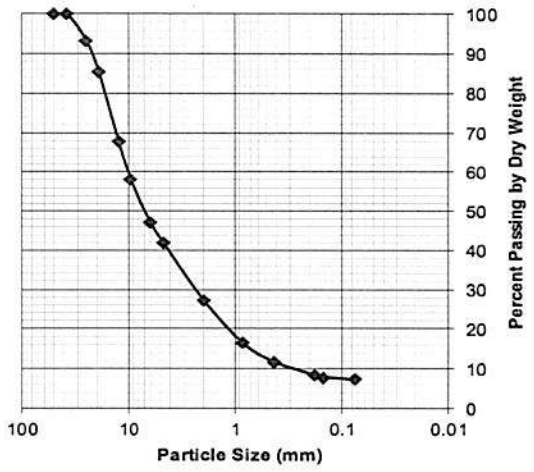
1) Material Identification

Sample #	Date Sampled	Classification	Source
BL3223	08/03/23	Gray cmf Gravel and cmf Sand; trace Silt/Clay	5-3R NESL Wehrle Dr.

2) Particle Size Analysis ASTM C136/C117

Sieve Size	Sieve Size (mm)	% Passing by Dry Weight Sample # BL3223
2"	50	100
1-1/2'	37.5	100
1"	25	93
3/4"	19	85
1/2"	12.5	68
3/8"	9.50	58
1/4"	6.25	47
#4	4.75	42
#10	2.00	27
#20	0.850	16
#40	0.425	12
#80	0.180	8
#100	0.150	8
#200	0.075	7

Grain Size Distribution



3) Moisture-Density Relationsh (ASTM D-1557: Modified Proctor)

	Sample # BL3223
Corrected Maximum Dry Density (pcf)	= **141.8**
Corrected Optimum Moisture Content (%)	= **6.3**
Oversized Particles, Percent by Weight (%)	= **15** *

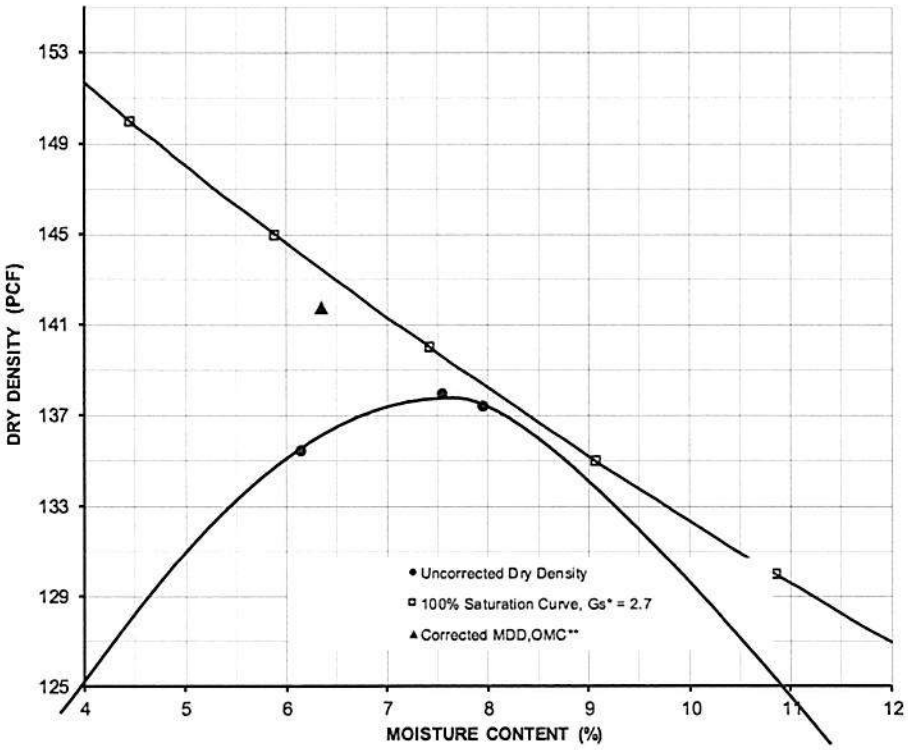
* Particles retained on 3/4-inch sieve

[1]AASHTO - American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory. CME Buffalo accreditation includes tests of Portland Cement Concrete, Aggregate and Soil Materials. www.aashtoresource.org

LABORATORY TEST SUMMARY
NESL
NESL Source Pre-Qual
CME Report Number: 17330L-14

SAMPLE LOCATION:	**5-3R NESL Wehrle Dr.**	DATE SAMPLED:	**8/3/23**
SOIL CLASSIFICATION:	**Gray cmf Gravel and cmf Sand; trace Silt/Clay**	SAMPLE NO.:	**BL3223**

Moisture - Density Relationship Curve



Particle Size Analysis ASTM C136

Sieve Size	% Passing
2"	100
1-1/2"	100
1"	93
3/4"	85
1/2"	68
3/8"	58
1/4"	47
No.4	42
No.10	27
No.20	16
No.40	12
No.80	8
No.100	8
No.200	7

Test Procedure Information

Test Method	☑ ASTM D-1557 (Modified)		☐ ASTM D-698
Procedure Used	☐ A	☐ B	☑ C
Preparation Method	☐ Dry	☑ Moist	
Description of Rammer	☐ Manual	☑ Mechanical	

Test Results

Corrected MDD (PCF) = **141.8**
Corrected OMC (%) = **6.3**

Oversize Fraction by Dry Weight
15 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☑ 3/4" Sieve

* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content
Please feel free to contact our office if you have any questions.

Austin Glasier
Supervising Laboratory Technician

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Please see attached gradation for "Concrete Sand". This material will be used for trench backfill around conduit.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

County Line Stone Co.

Location where fill was obtained:

4515 Crittenden Rd. Akron, NY 14001

Identification of any state or local approvals as a fill source:

NYSDOT Source 5-102F

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

"Concrete Sand" gradation

The information provided on this form is accurate and complete.

Signature

3/25/24
Date

Andy Janik
Print Name

La Bella
Firm

County Line STONE CO., INC.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

Phone 716-542-5435 **Fax 716-542-5442**

ALL SIZES CRUSHED STONE BITUMINOUS CONCRETE AGRICULTURAL LIME

Material Concrete Sand **Date** 2/27/2024

Sieve	% Passing	Specification
4"(100mm)		
3"(75mm)		
2 1/2"(63mm)		
2"(50mm)		
1 1/2"(37.5mm)		
1"(25mm)		
3/4"(19mm)		
5/8"(16.0mm)		
1/2"(12.5mm)		
3/8"(9.5mm)	100.0	100
1/4"(6.3mm)		
#4(4.75mm)	100	90-100
1/8"(3.2mm)		
#8(2.36mm)	89.7	75-100
#10(2.00mm)		
#16(1.18mm)	74.6	50-85
#20(850um)		
#30(600um)	52.3	25-60
#40(425um)		
#50(300um)	21.6	10-30
#80(180um)		
#100(150um)	5.4	0-10
#200(75um)	2.4	0-3
PAN		
TOTAL		

FM = 2.71

New York State Specifications

Size	Screen Sizes											
Designation	4"	3"	2 1/2"	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No 40	No 80	No 200
Screenings							100	90-100				0-1.0
1B								100	90-100		0-15	0-1.0
1A							100	90-100	0-15			0-1.0
1ST							100	0-15				0-1.0
1						100	90-100	0-15				0-1.0
2					100	90-100	0-15					0-1.0
3A				100	90-100	0-15						0-0.7
3			100	90-100	35-70	0-15						0-0.7
4A		100	90-100		0-20							0-0.7
4	100	90-100		0-15								0-0.7
5	90-100	0-15										0-0.7
TYPE 1		100		90-100				30-65		5-40		0-10
TYPE 2				100				25-60		5-40		0-10
TYPE 3	100							30-75		5-40		0-10
TYPE 4				100				30-65		5-40		0-10

Comments: Meets all requirements of NYSDOT Item No. 703-02

Results are Wet-Wash #200 Sieve

NYSDOT Source 5-102F

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? Choose an item

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

See Attach for the import of 200 ton of 1" screened sand or "cushion sand". This material will be used as backfill around conduit.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

County Line Stone

Location where fill was obtained:

4515 Crittenden Road Akron, NY 14001

Identification of any state or local approvals as a fill source:

NYSDOT 703-06

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Seive analysis attached.

The information provided on this form is accurate and complete.

Signature

3/22/24
Date

Andy Janik
Print Name

LaBella
Firm

CME Associates, Inc.

2727 Broadway St., Suite 2
Cheektowaga, New York 14227
(716) 877-9577
(716) 877-9629 (Fax)

www.cmeassociates.com

LAB REPORT SUMMARY

This CME Associates, Inc representative performed a sieve analysis and moisture density test (Modified Proctor) on 1" Screened Sand (designated NYSDOT Item 703-06) sampled from County Line Stone on 01/04/2022. Tests were performed according to ASTM standards C136, C117, and D1557.

The following table distinguishes your sample from some common NYSDOT items:

Sample No.:	Location:
BL3111	County Line Stone

MECHANICAL ANALYSIS (ASTM C136, C117)

Sieve Size	Percent Passing by Weight Sample BL3111	**Item 703-06 Cushion Sand**	Item 203.07 Select Granular Fill	Item 203.25 Sand Backfill	Item 605.0901 Underdrain Filter Type 1
1"	100				100
3/4"	100				
1/2"	99			100	30-100
3/8"	99				
1/4"	96	**100**		90-100	0-30
No. 4	95				
No. 10	91				0-10
No. 40	85		0-70		
No. 50	80	0-35			
No. 80	36				
No. 100	23	**0-10**			
No. 200	4		0-15	0-5	0-5

CLASSIFICATION

Brown cmf Sand; trace f Gravel; trace Silt/Clay

LABORATORY MOISTURE-DENSITY RELATIONSHIP (ASTM D1557)

Corrected Maximum Dry Density	=	**109.9**	**Pcf**
Corrected Optimum Moisture Content	=	**14.0**	**%**

It is recommended the engineer of record review and comment on the use of this material. Please see attached documents for lab test results. Feel free to contact this office should you have any questions.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Please see attached documentation of material source. This import request is for Surge Stone.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Attached.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

County Line Stone Co., Inc.

Location where fill was obtained:

4515 Crittenden Road Akron, NY 14001

Identification of any state or local approvals as a fill source:

NYSDOT Source 5-7RS

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

- Surge Stone Sieve Analysis

The information provided on this form is accurate and complete.

Signature

3/19/24
Date

Andy Janik
Print Name

LaBella
Firm

County Line STONE CO., INC.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

Phone 716-542-5435 **Fax 716-542-5442**

ALL SIZES CRUSHED STONE BITUMINOUS CONCRETE AGRICULTURAL LIME

Material **620.02 Fine Stone Filling (Surge)** **Date** **1/31/2024**

Sieve	%	Specification
<50kg(110lbs)		
<200mm(8in)	94	90-100
<3"(76mm)	25	0-50
2"(50mm)		
1 1/2"(37.5mm)		
1"(25mm)		
3/4"(19mm)		
5/8"(16.0mm)		
1/2"(12.5mm)		
3/8"(9.5mm)		
5/16 "(8.0mm)		
1/4"(6.3mm)		
#4(4.75mm)		
1/8"(3.2mm)		
#10(2mm)	1.8	0-10
#16(1.18mm)		
#20(850um)		
#30(600um)		
#40(425um)		
#50(300um)		
#80(180um)		
#100(150um)		
#200(75um)		
PAN		
TOTAL		

New York State Specifications

Size	Screen Sizes											
Designation	4"	3"	2 1/2"	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No 40	No 80	No 200
Screenings							100	90-100				0-1.0
1B								100	90-100		0-15	0-1.0
1A							100	90-100	0-15			0-1.0
1ST							100	0-15				0-1.0
1						100	90-100	0-15				0-1.0
2					100	90-100	0-15					0-1.0
3A				100	90-100	0-15						0-0.7
3			100	90-100	35-70	0-15						0-0.7
4A		100	90-100		0-20							0-0.7
4	100	90-100		0-15								0-0.7
5	90-100	0-15										0-0.7
TYPE 1		100		90-100				30-65		5-40		0-10
TYPE 2				100				25-60		5-40		0-10
TYPE 3	100							30-75		5-40		0-10
TYPE 4				100				30-65		5-40		0-10

Comments: **Meets all requirements of NYSDOT Standard Specification 620-2**

NYSDOT Source 5-7RS

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 400-500

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Please see attached documentation of material source. This import request is for 400-500 ton of 2" run-of-crusher stone.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Attached.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

County Line Stone Co., Inc.

Location where fill was obtained:

4515 Crittenden Road Akron, NY 14001

Identification of any state or local approvals as a fill source:

NYSDOT Source 5-7RS

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

- 2" Run-of-Crusher Sieve Analysis

The information provided on this form is accurate and complete.

Signature

3/19/24
Date

Andy Janik
Print Name

LaBella
Firm

Revised April 2023

County Line STONE CO., INC.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

Phone 716-542-5435 **Fax 716-542-5442**

ALL SIZES CRUSHED STONE BITUMINOUS CONCRETE AGRICULTURAL LIME

Material Crusher Run 2" (CR2) **Date** 1/31/2024

Sieve	% Passing	Specification
4"(100mm)		
3"(75mm)		
2 1/2"(63mm)		
2"(50mm)	100	100
1 1/2"(37.5mm)	98	
1"(25mm)	87	
3/4"(19mm)	78	
5/8"(16.0mm)		
1/2"(12.5mm)	66	
3/8"(9.5mm)		
5/16 "(8.0mm)		
1/4"(6.3mm)	47	25-60
#4(4.75mm)		
1/8"(3.2mm)		
#10(2.0mm)		
#16(1.18mm)		
#20(850um)		
#30(600um)		
#40(425um)	12	5-40
#50(300um)		
#80(180um)		
#100(150um)		
#200(75um)	6.0	
PAN		
TOTAL		

New York State Specifications

Size	Screen Sizes											
Designation	4"	3"	2 1/2"	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No 40	No 80	No 200
Screenings							100	90-100				0-1.0
1B								100	90-100		0-15	0-1.0
1A							100	90-100	0-15			0-1.0
1ST							100	0-15				0-1.0
1						100	90-100	0-15				0-1.0
2					100	90-100	0-15					0-1.0
3A				100	90-100	0-15						0-0.7
3			100	90-100	35-70	0-15						0-0.7
4A		100	90-100		0-20							0-0.7
4	100	90-100		0-15								0-0.7
5	90-100	0-15										0-0.7
TYPE 1		100		90-100				30-65		5-40		0-10
TYPE 2				100				25-60		5-40		0-10
TYPE 3	100							30-75		5-40		0-10
TYPE 4				100				30-65		5-40		0-10

Comments:

Meet all requirements of NYSDOT Item No. 703-02

NYSDOT Source 5-7R

Particle Size Analysis Report

Report #: SL08A-000002

Buffalo Testing
5167 South Park Ave
Hamburg, NY 14075
Phone: 716.649.8110

Client:

County Line Stone Co Inc
4515 Crittenden Road
PO Box 150
Akron, NY 14001

Project:

BT186
LSA-County Line Stone Co., Inc.
Hamburg, NY
Hamburg, NY 14075

Sampling Information

Sample Number:	87442	**Sampled By:**	Client
Sampling Method:	Not Provided	**Sample Date:**	08/23/2023
Sample From:	Stockpile	**Material Description:**	Crushed Stone
Supplier:	County Line Stone	**Plant or Source:**	Akron, NY
Color/Material Description:	Gray crushed stone		

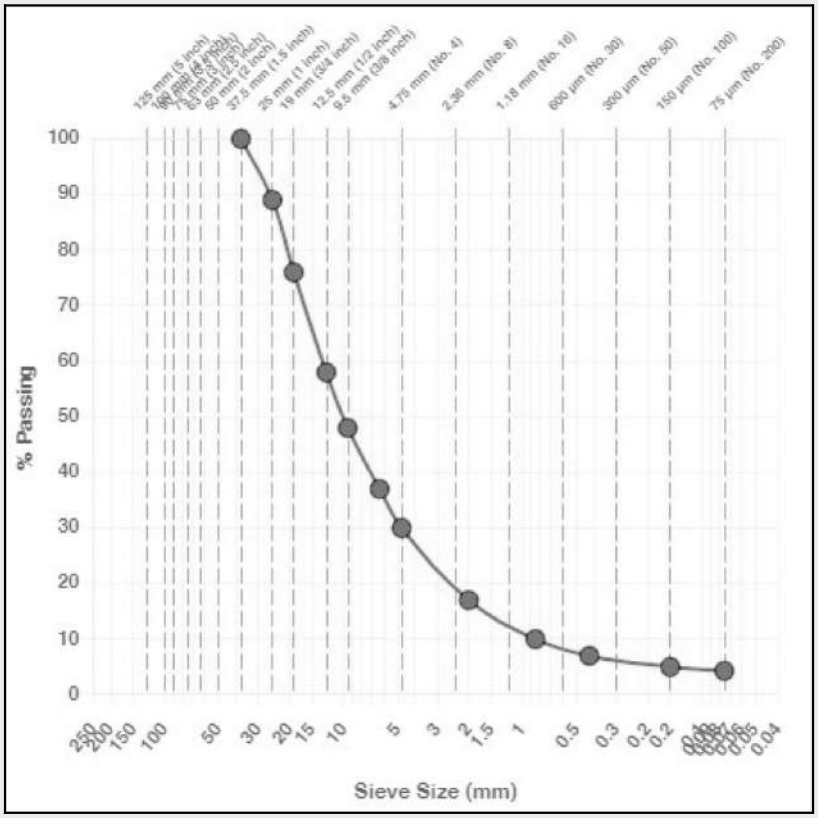
Test Results

Test Completed By:	Medler, Zachary	**Test Completed Date:**	09/20/2023

Sieve Analysis Data

Sieve Size	Percent Passing	Spec. Range	Spec. Result
37.5 mm (1.5 inch)	100	---	---
25 mm (1 inch)	89	---	---
19 mm (3/4 inch)	76	---	---
12.5 mm (1/2 inch)	58	---	---
9.5 mm (3/8 inch)	48	---	---
6.3 mm (1/4 inch)	37	---	---
4.75 mm (No. 4)	30	---	---
2 mm (No. 10)	17	---	---
850 µm (No. 20)	10	---	---
425 µm (No. 40)	7	---	---
150 µm (No. 100)	5	---	---
75 µm (No. 200)	4.3	---	---

Test Specification: ASTM D422 without Hydrometer



Scott McCasland Vice President
09/20/2023

THE RESULTS RELATE ONLY TO THE ITEMS INSPECTED OR TESTED; THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE PRIOR WRITTEN APPROVAL OF ATLANTIC TESTING LABORATORIES.

Laboratory Compaction Test Report

Report #: SL12-000002

Buffalo Testing
5167 South Park Ave
Hamburg, NY 14075
Phone: 716.649.8110

Client:

County Line Stone Co Inc
4515 Crittenden Road
PO Box 150
Akron, NY 14001

Project:

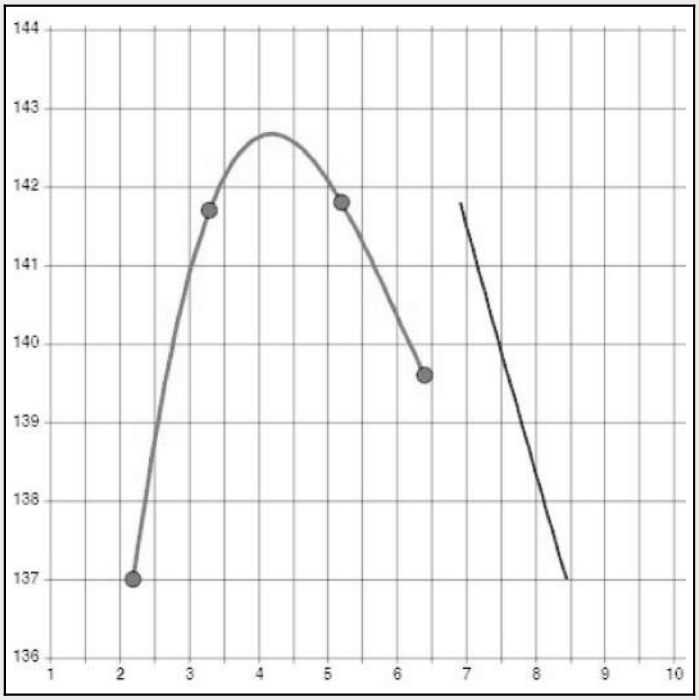
BT186
LSA-County Line Stone Co., Inc.
Hamburg, NY
Hamburg, NY 14075

Sampling Information

Sample Number:	87442	**Sampled By:**	Client
Sampling Method:	Not Provided	**Sample Date:**	08/23/2023
Sample From:	Stockpile	**Material Type:**	Crushed Stone
Supplier:	County Line Stone	**Plant or Source:**	Akron, NY
Color/Material Description:	Gray crushed stone		

Test Results

Test Completed By:	Medler, Zachary
Test Completed Date:	09/20/2023



Test Specification: ASTM D1557 Method C, ASTM D4718

Soil Classification:	NA Not Classified **The soil classification symbol and name are based on the visual-manual procedure.*
Material Description:	Gray ROC
Preparation Method:	Moist
Rammer Type:	Mechanical
Percent Retained on 3/4 in.:	24
Specific Gravity Determination:	Estimated
Specific Gravity of Sample:	2.67
Oversize Specific Gravity:	2.70
Corrected Max Dry Density (lb/ft³):	142.6
Corrected Optimum Moisture (%):	4.2

THE RESULTS RELATE ONLY TO THE ITEMS INSPECTED OR TESTED; THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE PRIOR WRITTEN APPROVAL OF ATLANTIC TESTING LABORATORIES.

Laboratory Compaction Test Report

Report #: SL12-000002

Buffalo Testing
5167 South Park Ave
Hamburg, NY 14075
Phone: 716.649.8110

Client:

County Line Stone Co Inc
4515 Crittenden Road
PO Box 150
Akron, NY 14001

Project:

BT186
LSA-County Line Stone Co., Inc.
Hamburg, NY
Hamburg, NY 14075

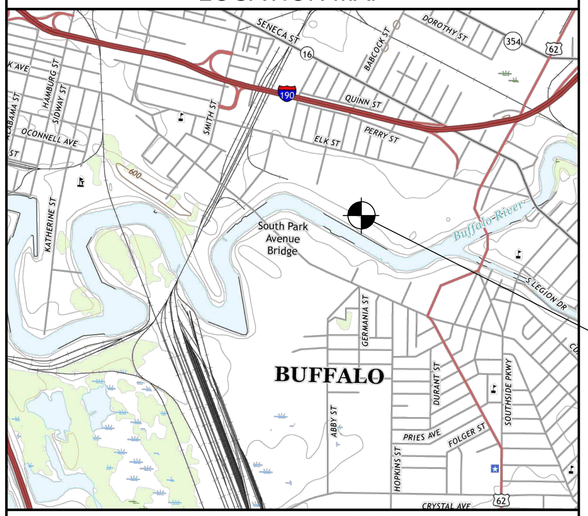
Scott McCasland Vice President
09/20/2023

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APPENDIX 7

Record As-Built Drawings/Final Project Drawings

LOCATION MAP



SITE LOCATION

SCALE: 1" = 1,500'

ELK STREET
SOLAR DEVELOPMENT PROJECT

SITE ADDRESS: 503 ELK STREET, BUFFALO, NY 14210
TAX ID#: 123.13-1-2.111

PREPARED FOR:

INOVATEUS SOLAR LLC

19890 STATE LINE ROAD
SOUTH BEND, IN 46637

ENGINEER:

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre, Suite 300, Hudson New York 12534
www.crawfordandassociates.com
tel: (518) 828-2700
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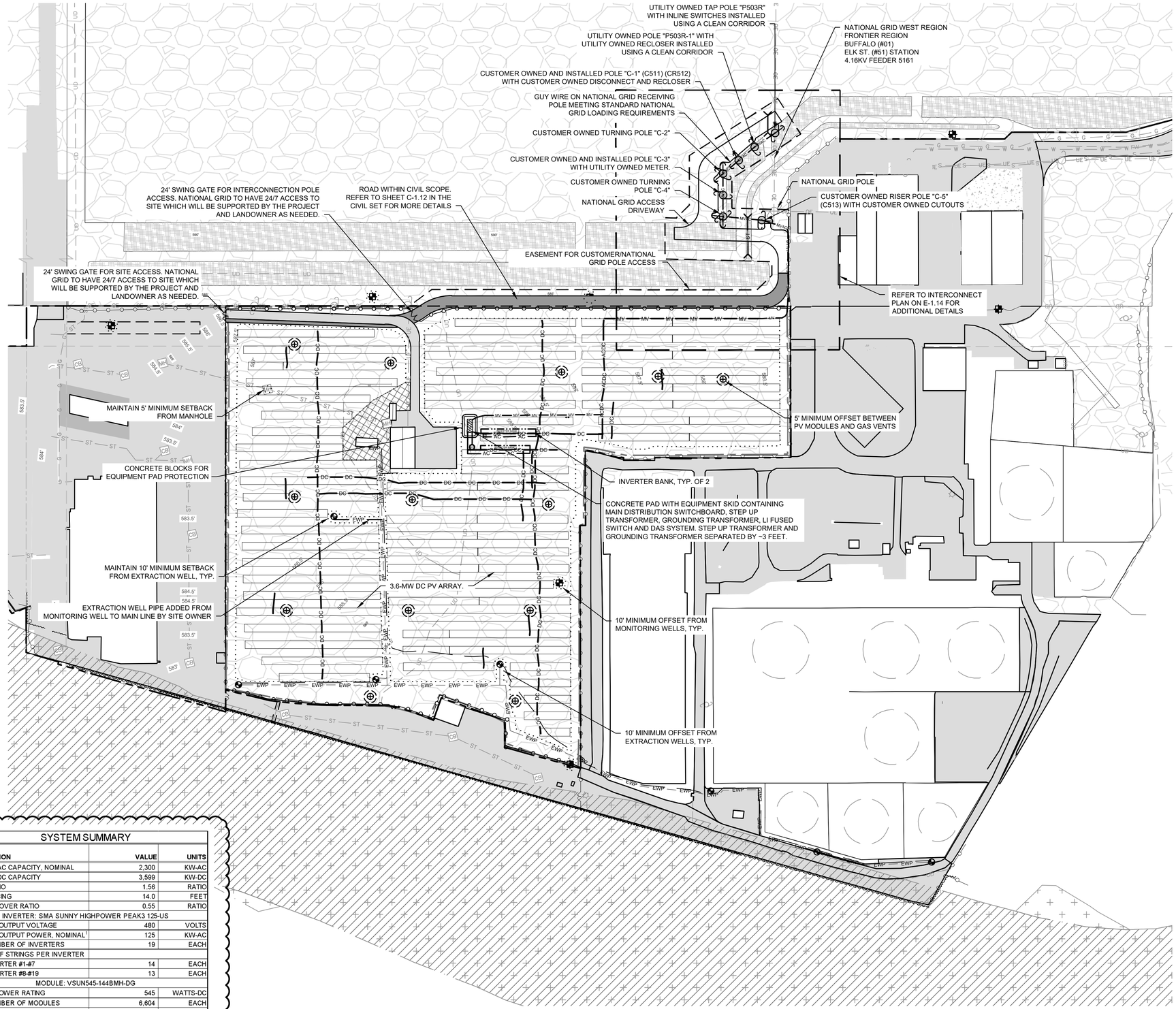
DATE: OCTOBER 14, 2025
REVISED: OCTOBER 21, 2025

RECORD DRAWING SET-ELECTRICAL

STATE OF NEW YORK
SUZANNE CRAWFORD
LICENSED PROFESSIONAL ENGINEER
100566
10/14/2025

DRAWINGS:

T-0.0	TITLE SHEET
E-1.1	ELECTRICAL SITE PLAN
E-1.2	TRENCHING PLAN
E-1.3	INVERTER ZONES
E-1.4	GROUNDING PLAN
E-1.5	AC CABLE PLAN
E-1.6	DC CABLE PLAN
E-1.7	COMMUNICATIONS LAYOUT
E-1.8	ARRAY MAPPING PLAN
E-1.9	COMBINER BOX ZONES – AREA 1
E-1.10	COMBINER BOX ZONES – AREA 2
E-1.11	COMBINER BOX ZONES – AREA 3
E-1.12	COMBINER BOX ZONES – AREA 4
E-1.13	COMBINER BOX ZONES – AREA 5
E-1.14	INTERCONNECT PLAN
E-1.15	EQUIPMENT PAD LAYOUT
E-6.0	INTERCONNECTION SINGLE LINE DIAGRAM
E-6.1	SYSTEM THREE LINE DIAGRAM
E-6.2	INVERTER WIRING DIAGRAM
E-6.3	GROUNDING DIAGRAM
E-6.4	AUXILIARY POWER DIAGRAM
E-6.5	DC CONDUCTOR SCHEDULE
E-6.6	AC CONDUCTOR SCHEDULE
E-6.7	AUXILIARY POWER SCHEDULE
E-6.8	AC CONTROL SCHEMATIC



ELECTRICAL SITE PLAN

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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5. ELECTRICAL AND CIVIL RECORD DRAWING SETS ARE BEING RELEASED WITH A COUPLE OF PUNCHLIST ELECTRICAL ITEMS TO BE COMPLETED AND VERIFIED, INCLUDING UPDATED IRT TESTING, PHOTOS AND INSPECTION RESULTS OF THE NEUTRAL BETWEEN THE GROUNDING TRANSFORMER AND MDSB.

LEGEND

- LEASE LINE
- ROAD EDGE
- FENCE
- STORMWATER LINE
- GAS LINE
- WATER LINE
- FIRE WATER LINE
- SEWER LINE
- OVERHEAD/UNDERGROUND ELECTRIC
- EXTRACTION WELL PIPE
- UNDERDRAIN
- EXTENT OF GSL LINER/ UNDERDRAIN
- STORMWATER MANHOLE
- STORMWATER CATCH BASIN
- BUILDING
- PAVEMENT HATCH
- PV MODULE EXCLUSION AREA PER ESCP
- FEMA REGULATORY FLOODWAY
- CRUSHED STONE CAP MATERIAL
- STORMWATER BASIN
- FEMA 1% ANNUAL CHANCE FLOOD ZONE HATCH
- EXTRACTION WELL
- MONITORING WELL
- GAS VENT W/ 5' AND 10' OFFSET
- LIGHT POLE
- UTILITY POLE
- GUY WIRE
- APPROXIMATE UTILITY EASEMENT
- MODULE SETBACK
- DC ELECTRIC
- LOW VOLTAGE AC ELECTRIC
- MEDIUM VOLTAGE AC ELECTRIC
- AC & DC ELECTRIC
- CONCRETE EQUIPMENT PAD
- NATIONAL GRID ACCESS AREA

SYSTEM SUMMARY

DESCRIPTION	VALUE	UNITS
MAXIMUM AC CAPACITY, NOMINAL	2,300	KW-AC
MAXIMUM DC CAPACITY	3,599	KW-DC
DC-AC RATIO	1.56	RATIO
ROW SPACING	14.0	FEET
GROUND COVER RATIO	0.55	RATIO
INVERTER: SMA SUNNY HIGHPOWER PEAK3 125-US		
INVERTER OUTPUT VOLTAGE	480	VOLTS
INVERTER OUTPUT POWER, NOMINAL[1]	125	KW-AC
TOTAL NUMBER OF INVERTERS	19	EACH
NUMBER OF STRINGS PER INVERTER		
INVERTER #1-#7	14	EACH
INVERTER #8-#19	13	EACH
MODULE: VSUN545-144BMH-DG		
MODULE POWER RATING	545	WATTS-DC
TOTAL NUMBER OF MODULES	6,604	EACH
MODULES PER RACK, VERTICALLY	2	PORTRAIT
MODULES PER STRING	26	EACH
MAX DC SYSTEM VOLTAGE	1,500	VOLTS
NUMBER OF STRINGS	254	EACH
TILT ANGLE	30	DEGREES
AZIMUTH ANGLE	14	DEGREES

[1] INVERTER #1-10 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.1KW-AC. INVERTER #11-19 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.0KW-AC.

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE CROUNSE · 100558 · LICENSED PROFESSIONAL ENGINEER

12/17/2025

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REV #	DESCRIPTION	DATE	BY
1	ADDED SYSTEM SUMMARY TABLE	10/21/25	ESA

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ELECTRICAL SITE PLAN

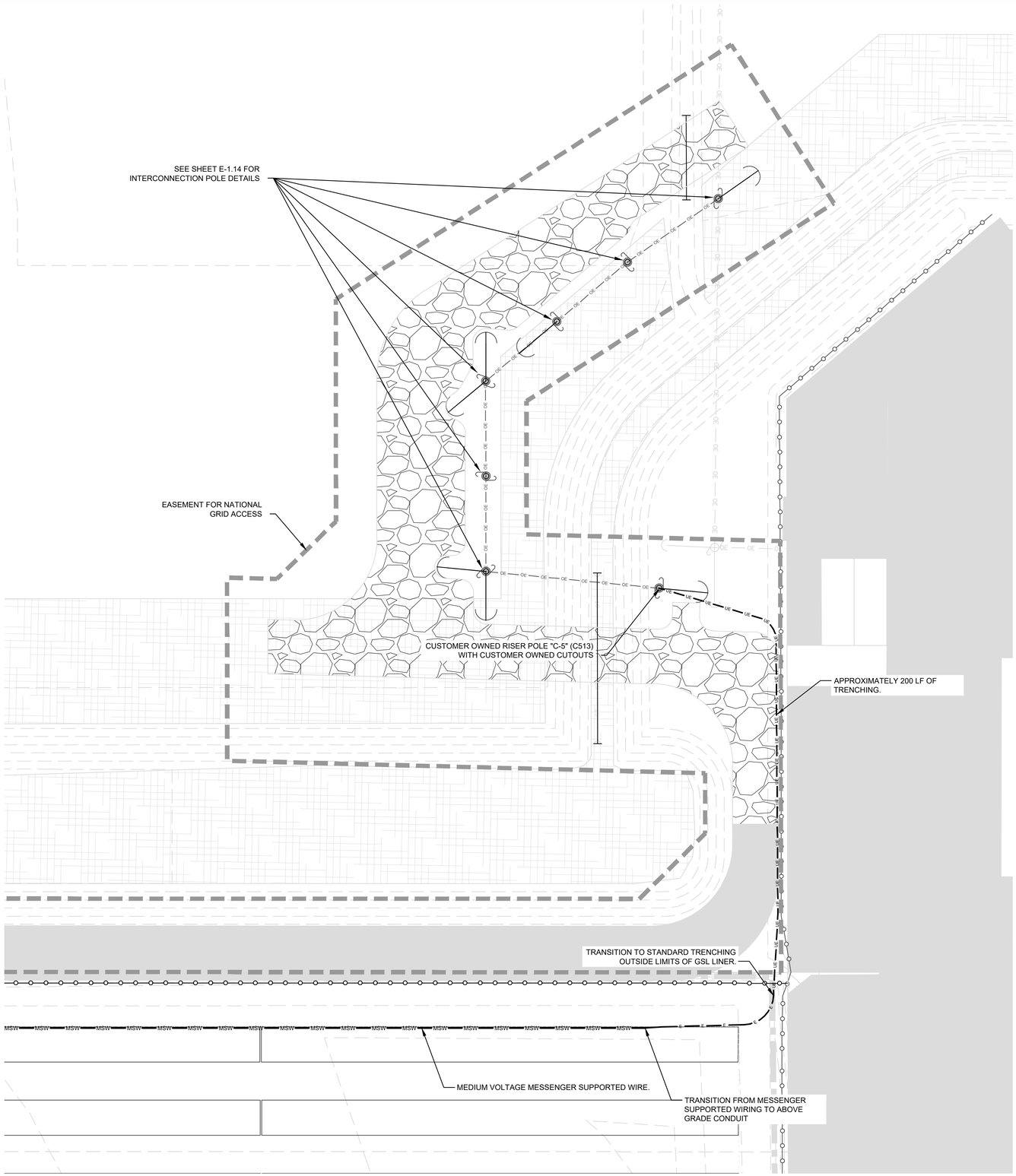
INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.1



TRENCHING PLAN

SCALE: 1"= 20'

DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- FENCE
- SHALLOW TRENCHING (UE)
- EXTENT OF GEOMEMBRANE/UNDERDRAIN
- UTILITY POLE
- GUY WIRE
- MODULE SETBACK
- MESSENGER WIRE SUPPORTED WIRING (MSW)
- ABOVE GRADE CONDUIT (E)

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

RECORD DRAWINGS

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · JENNIFER SUZANNE CRAWFORD · 100558 · 10/2/2025

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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

TRENCHING PLAN

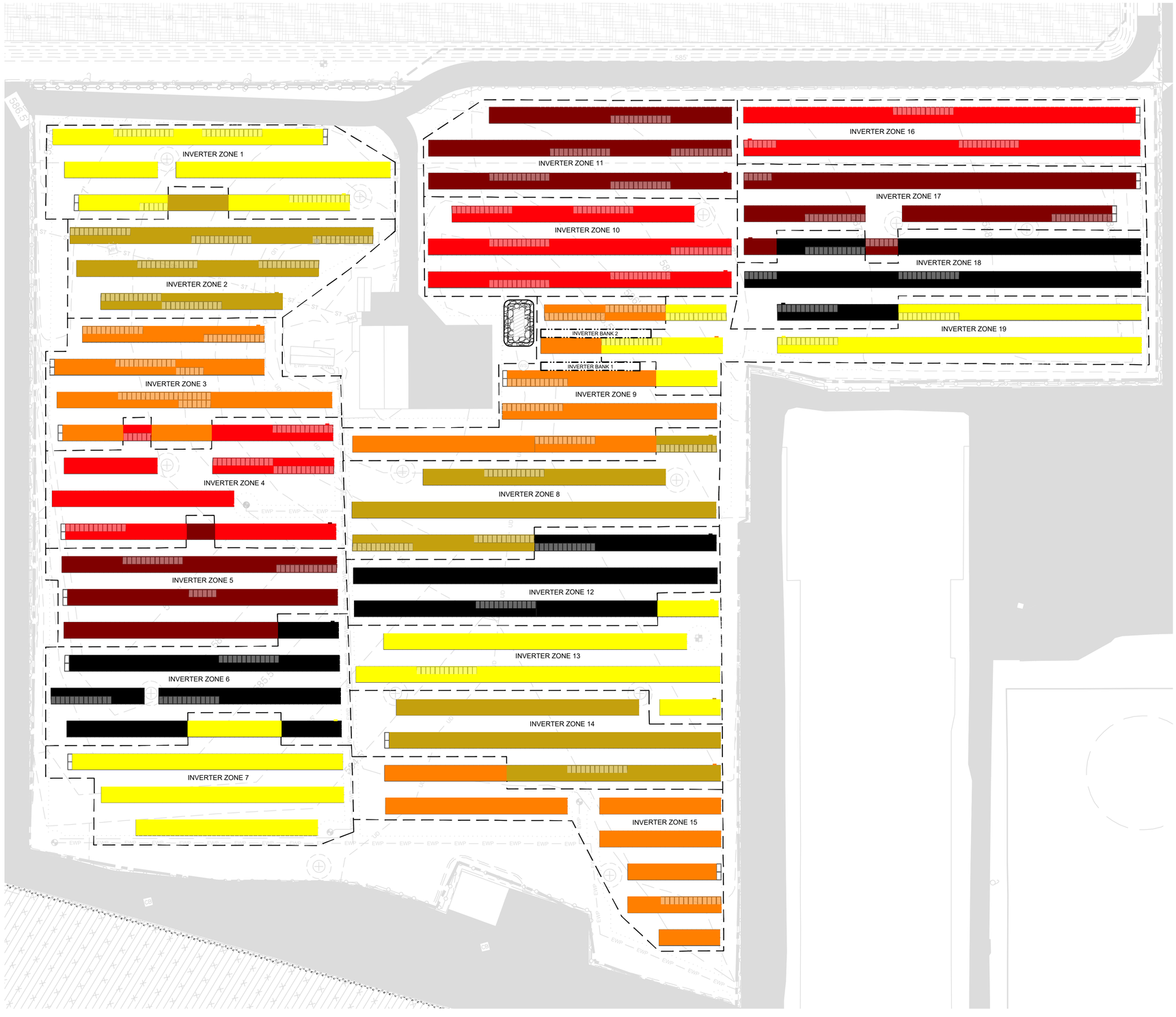
INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.2



INVERTER ZONES
SCALE: 1"= 80'

DRAWING NOTES:

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LEGEND

- INVERTER ZONE BOUNDARY
- INVERTER BANK X — INVERTER BANK LOCATION

GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE GRACKOWSKI — STATE OF NEW YORK — 100556
DATE: 1/2025

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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INVERTER ZONES

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
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AS SHOWN	APPROVED BY: JSC	5566.03
		DRAWING: E-1.3



GROUNDING PLAN

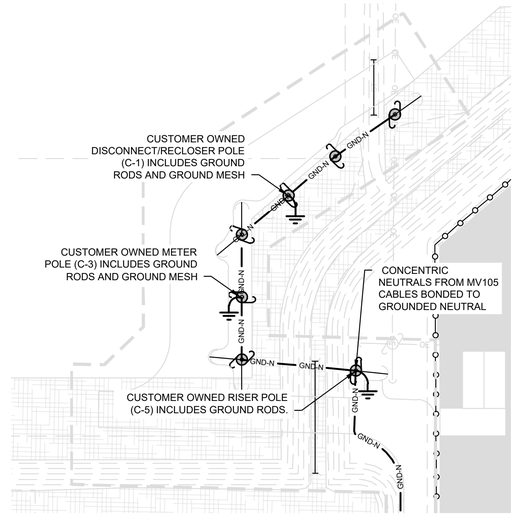
SCALE: 1"= 80'

LEGEND

- GND — GND — EQUIPMENT GROUNDING CONDUCTOR (EGC) ROUTE
- GND-N — GND-N — GROUNDED CONDUCTOR (NEUTRAL) ROUTE
- GROUNDING ELECTRODE
- FENCE
- INVERTER BANK X — INVERTER BANK
- DCCB-X — DC COMBINER BOX

DRAWING NOTES:

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INSET A - POLE LINEUP GROUNDING

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK — JENNIFER SUZANNE CRAWFORD — 100556 — LICENSED PROFESSIONAL ENGINEER
12/1/2025

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

GROUNDING PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

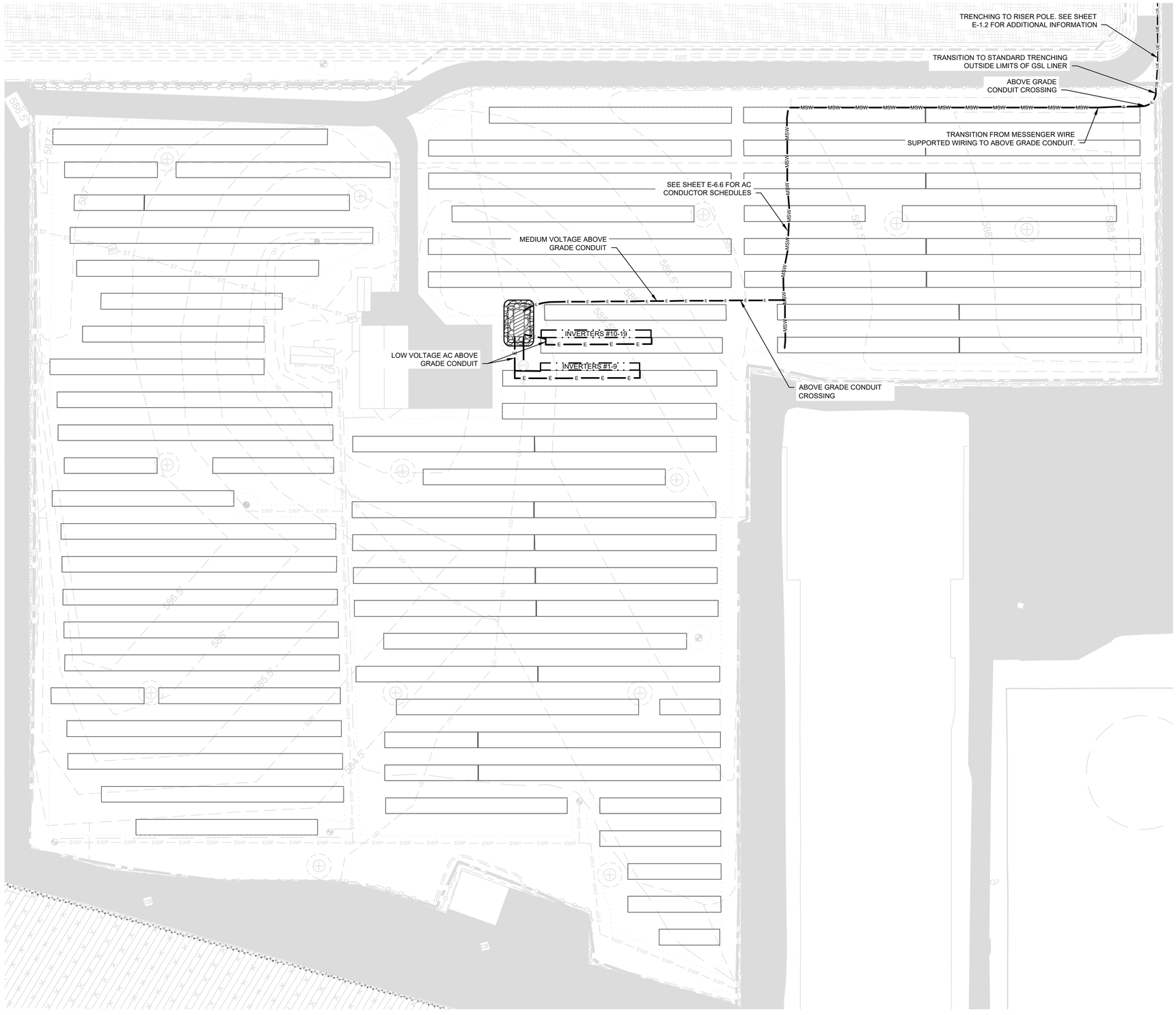
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SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING:
E-1.4



AC CABLE PLAN
SCALE: 1"= 40'

DRAWING NOTES:

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LEGEND

- MSW MSW MSW — MESSENGER SUPPORTED WIRING
- E E E — ABOVE GRADE CONDUIT
- UE UE — UNDERGROUND ELECTRIC
- EQUIPMENT PAD

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK — JENNIFER SUZANNE CROWLEY — 100556 — LICENSED PROFESSIONAL ENGINEER
12/1/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

AC CABLE PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
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AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.5



DC CABLE PLAN

SCALE: 1"= 40'

DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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LEGEND

- MSW MSW MSW — MESSENGER SUPPORTED WIRING
- E E E — ABOVE GRADE CONDUIT
- DCCB-X — DC COMBINER BOX
- EQUIPMENT PAD

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

JENNIFER SUZANNE CROUCH — LICENSED PROFESSIONAL ENGINEER — 100556 — STATE OF NEW YORK

12/1/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

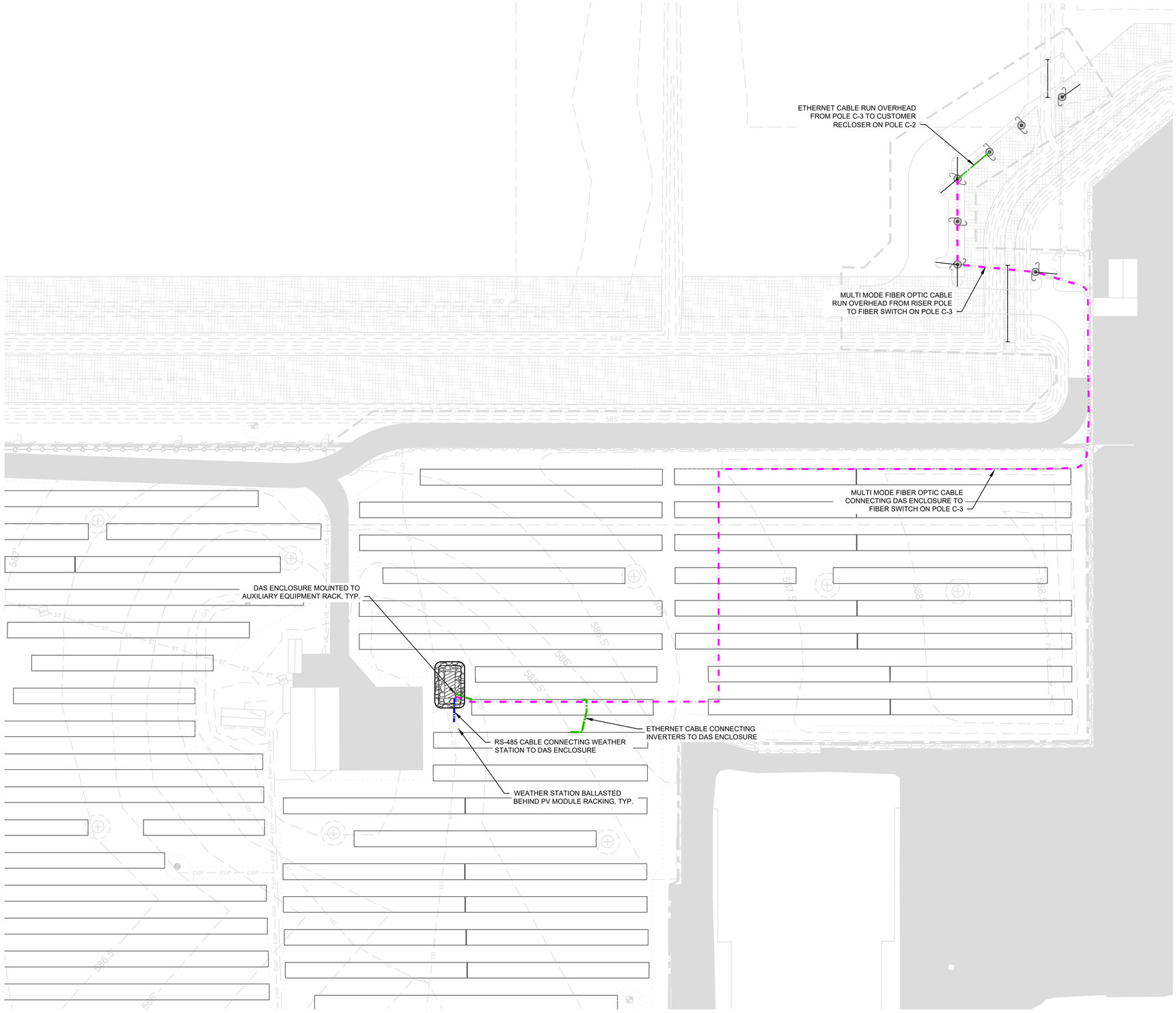
DC CABLE PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.6



COMMUNICATION LAYOUT
SCALE: 1"= 40'

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LEGEND

- ETHERNET CAT5E
- SERIAL / RS-485
- FIBER MULTI-MODE

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE CRAWFORD · 100556 · LICENSED PROFESSIONAL ENGINEER
12/1/2025

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SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMMUNICATION LAYOUT

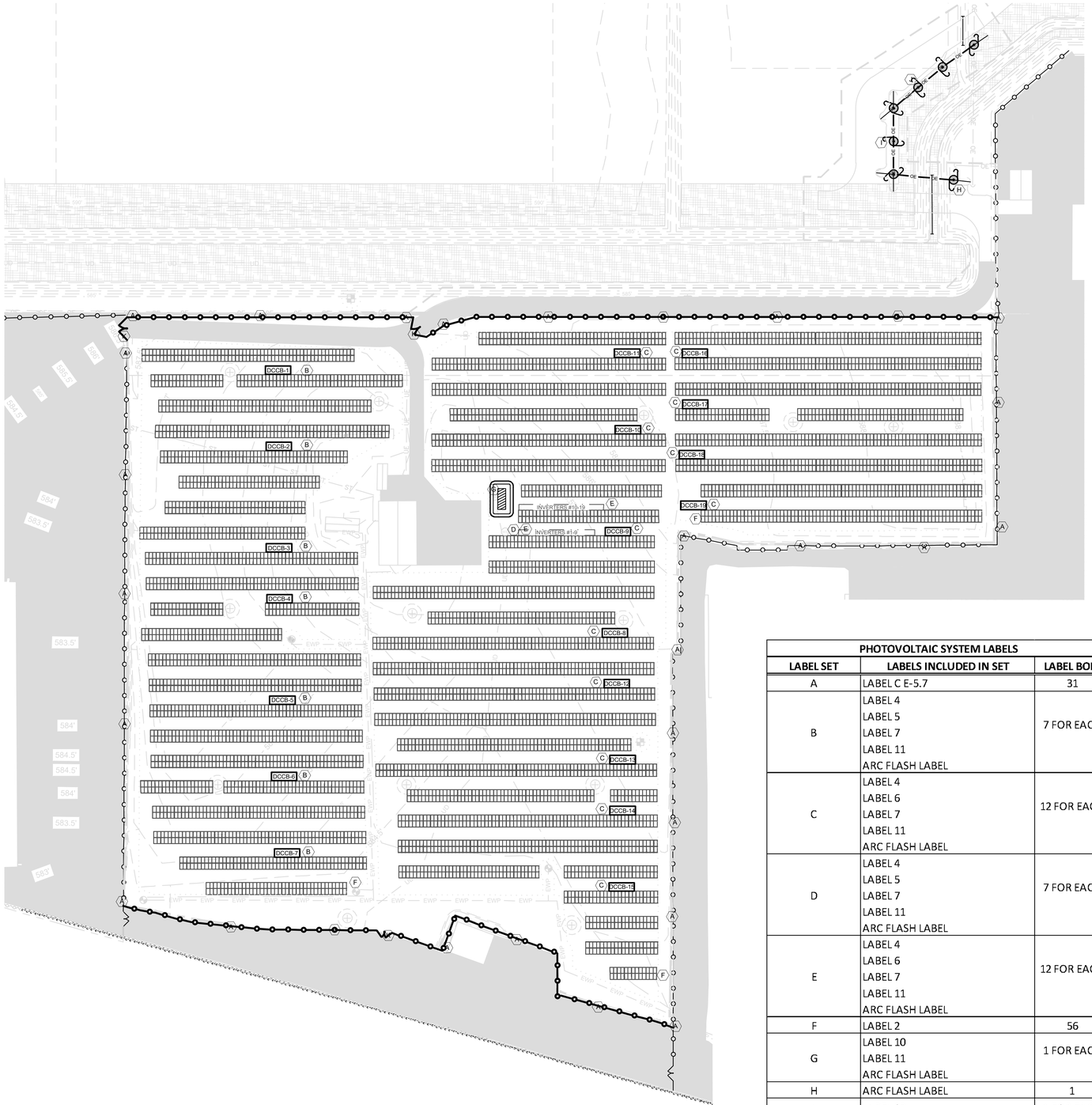
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AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.7



ARRAY MAPPING PLAN
SCALE: 1"= 60'

PHOTOVOLTAIC SYSTEM LABELS		
LABEL SET	LABELS INCLUDED IN SET	LABEL BOM
A	LABEL C E-5.7	31
B	LABEL 4 LABEL 5 LABEL 7 LABEL 11 ARC FLASH LABEL	7 FOR EACH
C	LABEL 4 LABEL 6 LABEL 7 LABEL 11 ARC FLASH LABEL	12 FOR EACH
D	LABEL 4 LABEL 5 LABEL 7 LABEL 11 ARC FLASH LABEL	7 FOR EACH
E	LABEL 4 LABEL 6 LABEL 7 LABEL 11 ARC FLASH LABEL	12 FOR EACH
F	LABEL 2	56
G	LABEL 10 LABEL 11 ARC FLASH LABEL	1 FOR EACH
H	ARC FLASH LABEL	1
I	LABEL 8B	1 FOR EACH
J	LABEL 8 LABEL 9 LABEL 10 LABEL 11 LABEL E E-5.6	1 FOR EACH
K	LABEL C E-5.7 LABEL 10	3 FOR EACH

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LEGEND

FENCE

INVERTER BANK X — INVERTER BANK

X — LABEL SET

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

ARRAY MAPPING PLAN

RECORD DRAWINGS

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

STATE OF NEW YORK · LICENSED · JENNIFER SUZANNE GRABOWSKI · 100556 · PROFESSIONAL ENGINEER
DATE: 1/2025

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

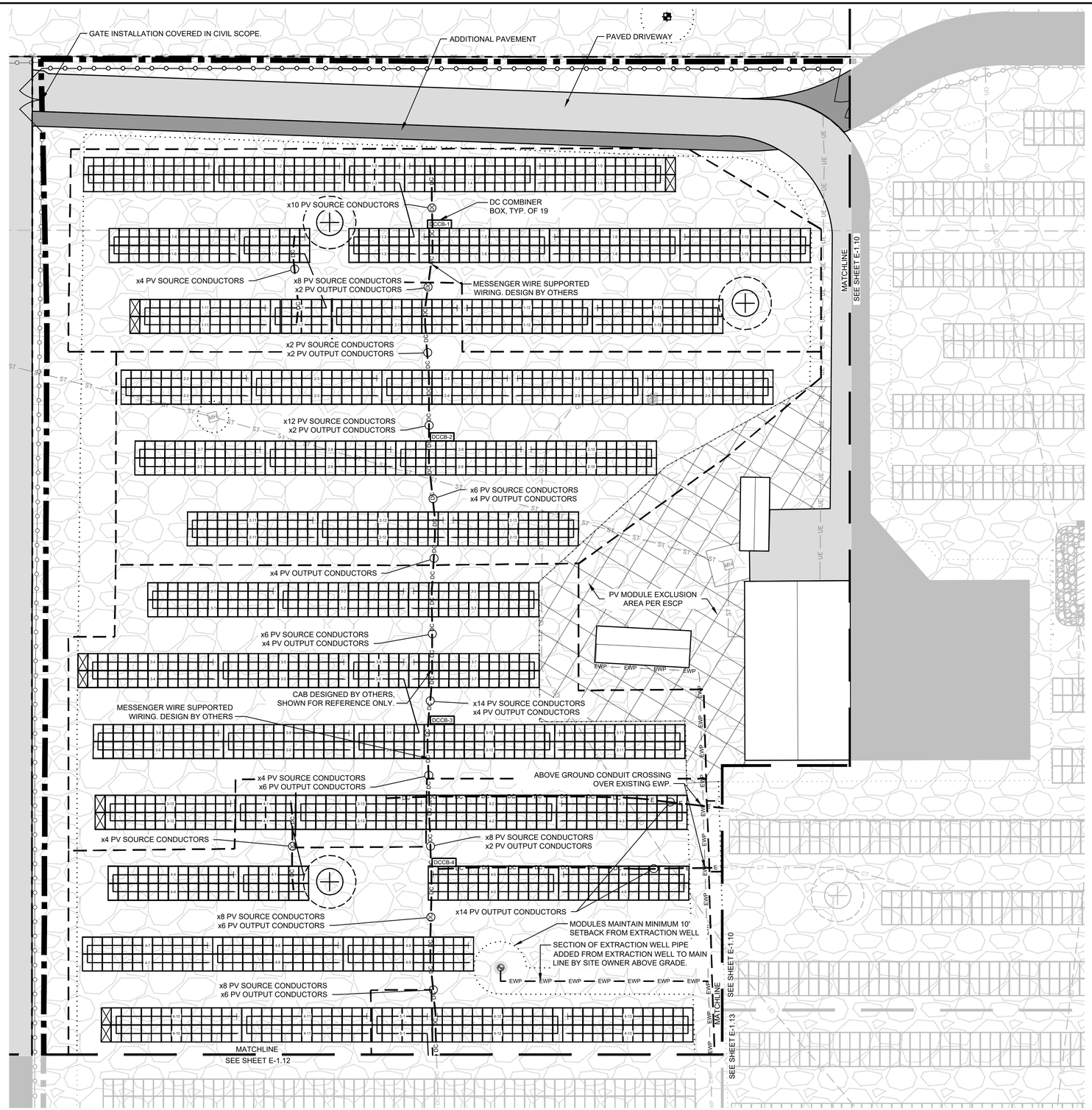
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AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.8



COMBINER BOX ZONES - AREA 1

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

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NOTES:
1. MSW FILLS BASED ON COORDINATION WITH TERRASMART. FILLS TO BE VERIFIED IN FIELD.

LEGEND

- FENCE
- UE — UNDERGROUND ELECTRIC
- EWP — EXTRACTION WELL PIPING
- EWP — EXTRACTION WELL PIPING COMPLETED BY OWNER
- UD — UNDERDRAIN
- EXTENT OF GEOMEMBRANE/UNDERDRAIN
- MH / MH — STORMWATER MANHOLE
- CB / CB — STORMWATER CATCH BASIN
- EXTRACTION WELL
- MONITORING WELL
- GAS VENT W/ 5' AND 10' OFFSET
- UTILITY POLE
- GUY WIRE
- MODULE SETBACK
- DC — DC ELECTRIC
- AC — LV-AC ELECTRIC
- MV — MV-AC ELECTRIC
- ACDC — AC & DC ELECTRIC
- INVERTER ZONE BOUNDARY
- DCCB-X — DC COMBINER BOX
- INVERTER BANK X — INVERTER BANK
- EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP
- PAVEMENT HATCH
- WS — WEATHER STATION
- X-X — MODULE STRING

RECORD DRAWINGS

LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE CROUSE — STATE OF NEW YORK — 100556
10/17/2025

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 1

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
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AS SHOWN	APPROVED BY: JSC	5566.03
		DRAWING: E-1.9



COMBINER BOX ZONES - AREA 2

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

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- PAVEMENT HATCH
- WS — WEATHER STATION
- MODULE STRING

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ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 2

RECORD DRAWINGS

INOVATEUS SOLAR LLC
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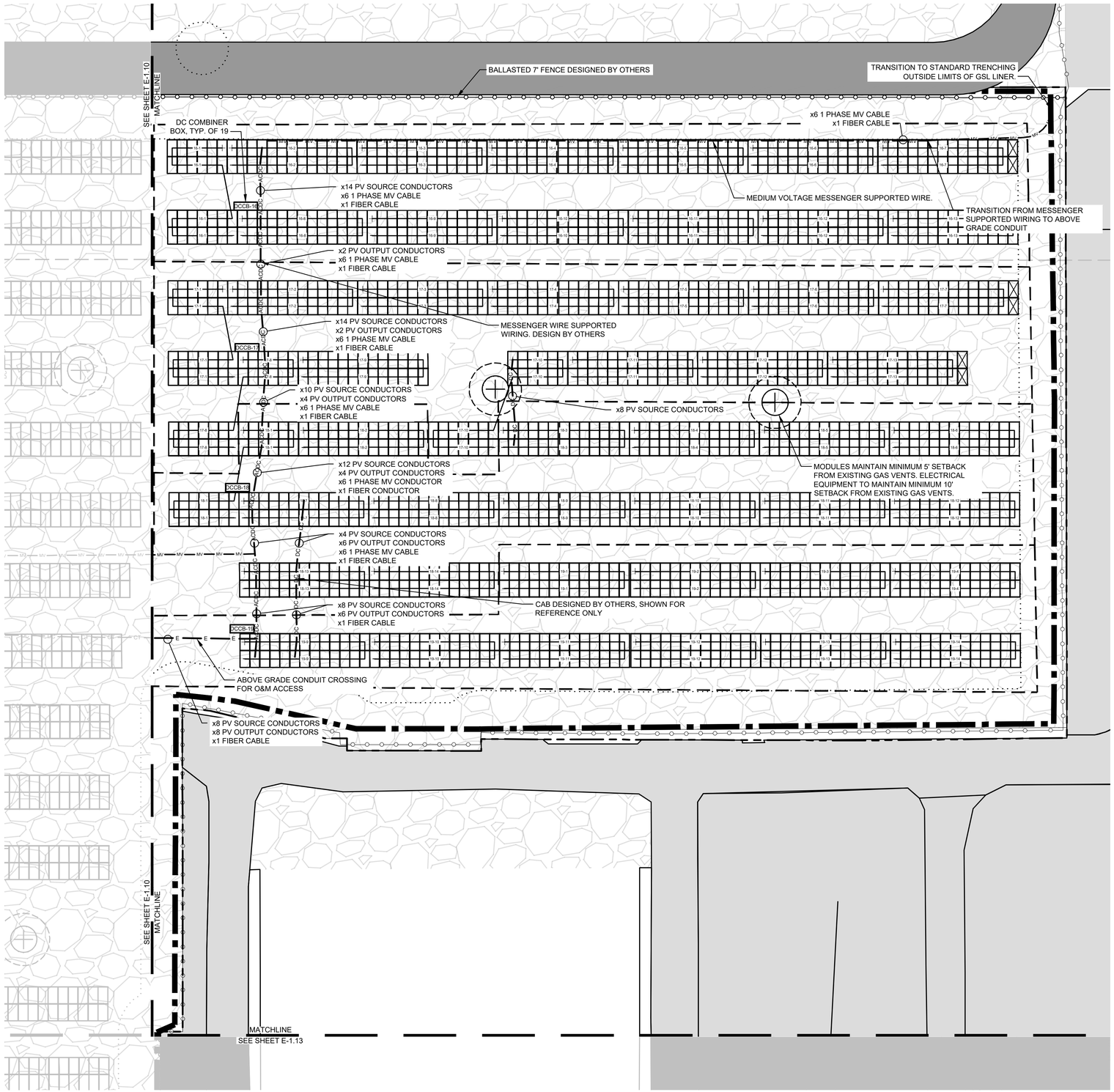
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12/17/2025

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AS SHOWN	APPROVED BY: JSC	DRAWING: E-1.10



COMBINER BOX ZONES - AREA 3

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

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- PAVEMENT HATCH
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- MODULE STRING

RECORD DRAWINGS

STATE OF NEW YORK — JENNIFER SUZANNE GRONDIN — 100556 — LICENSED PROFESSIONAL ENGINEER

10/17/2025

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SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 3

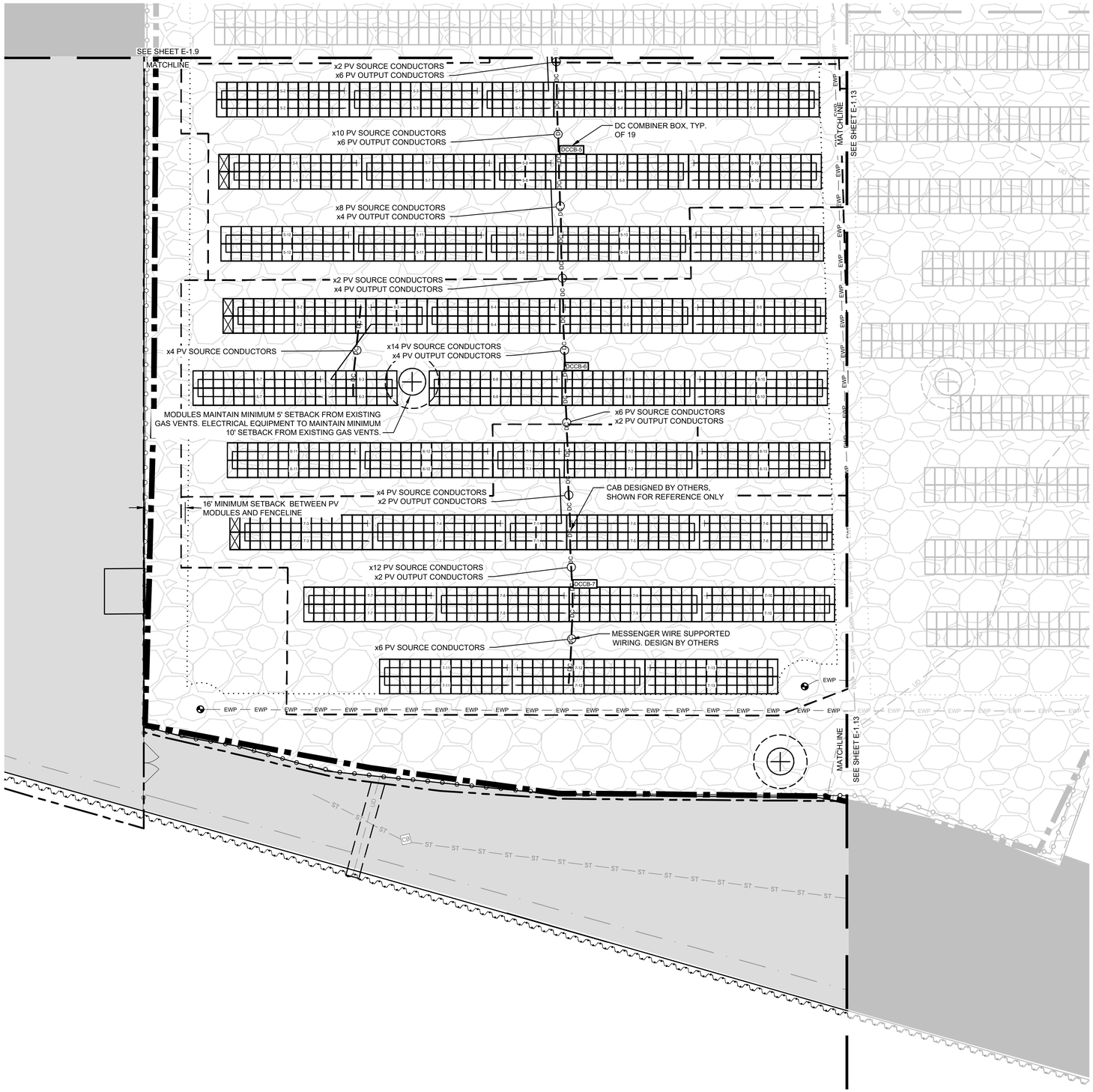
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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.11



COMBINER BOX ZONES - AREA 4

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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NOTES:

1. MSW FILLS BASED ON COORDINATION WITH TERRASMART. FILLS TO BE VERIFIED IN FIELD.

LEGEND

- FENCE
- UNDERGROUND ELECTRIC
- EXTRACTION WELL PIPING
- EXTRACTION WELL PIPING COMPLETED BY OWNER
- UNDERDRAIN
- EXTENT OF GEOMEMBRANE/UNDERDRAIN
- STORMWATER MANHOLE
- STORMWATER CATCH BASIN
- EXTRACTION WELL
- MONITORING WELL
- GAS VENT W/ 5' AND 10' OFFSET
- UTILITY POLE
- GUY WIRE
- MODULE SETBACK
- DC ELECTRIC
- LV-AC ELECTRIC
- MV-AC ELECTRIC
- AC & DC ELECTRIC
- INVERTER ZONE BOUNDARY
- DCCB-X — DC COMBINER BOX
- INVERTER BANK X — INVERTER BANK
- EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP
- PAVEMENT HATCH
- WEATHER STATION
- MODULE STRING

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 4

RECORD DRAWINGS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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STATE OF NEW YORK
JENNIFER SUZANNE CROUCH
LICENSED PROFESSIONAL ENGINEER
100556
12/17/2025

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DESIGNED BY:	TSB, JAT
CHECKED BY:	TSB, JSC
APPROVED BY:	JSC
N:\WORK\5566.02 Elk Street\DWG\Record Drawings\5566.02 GSE - ELEC.dwg	
C&A JOB#	5566.03
DRAWING:	E-1.12



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- UTILITY POLE
- GUY WIRE
- MODULE SETBACK
- DC ELECTRIC
- LV-AC ELECTRIC
- MV-AC ELECTRIC
- AC & DC ELECTRIC
- INVERTER ZONE BOUNDARY
- DC COMBINER BOX
- INVERTER BANK
- EQUIPMENT PAD
- PV MODULE EXCLUSION AREA PER ESCP
- PAVEMENT HATCH
- WEATHER STATION
- MODULE STRING

COMBINER BOX ZONES - AREA 5
SCALE: 1"= 20'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · JENNIFER SUZANNE CROUCH · 120556
12/8/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

COMBINER BOX ZONES - AREA 5

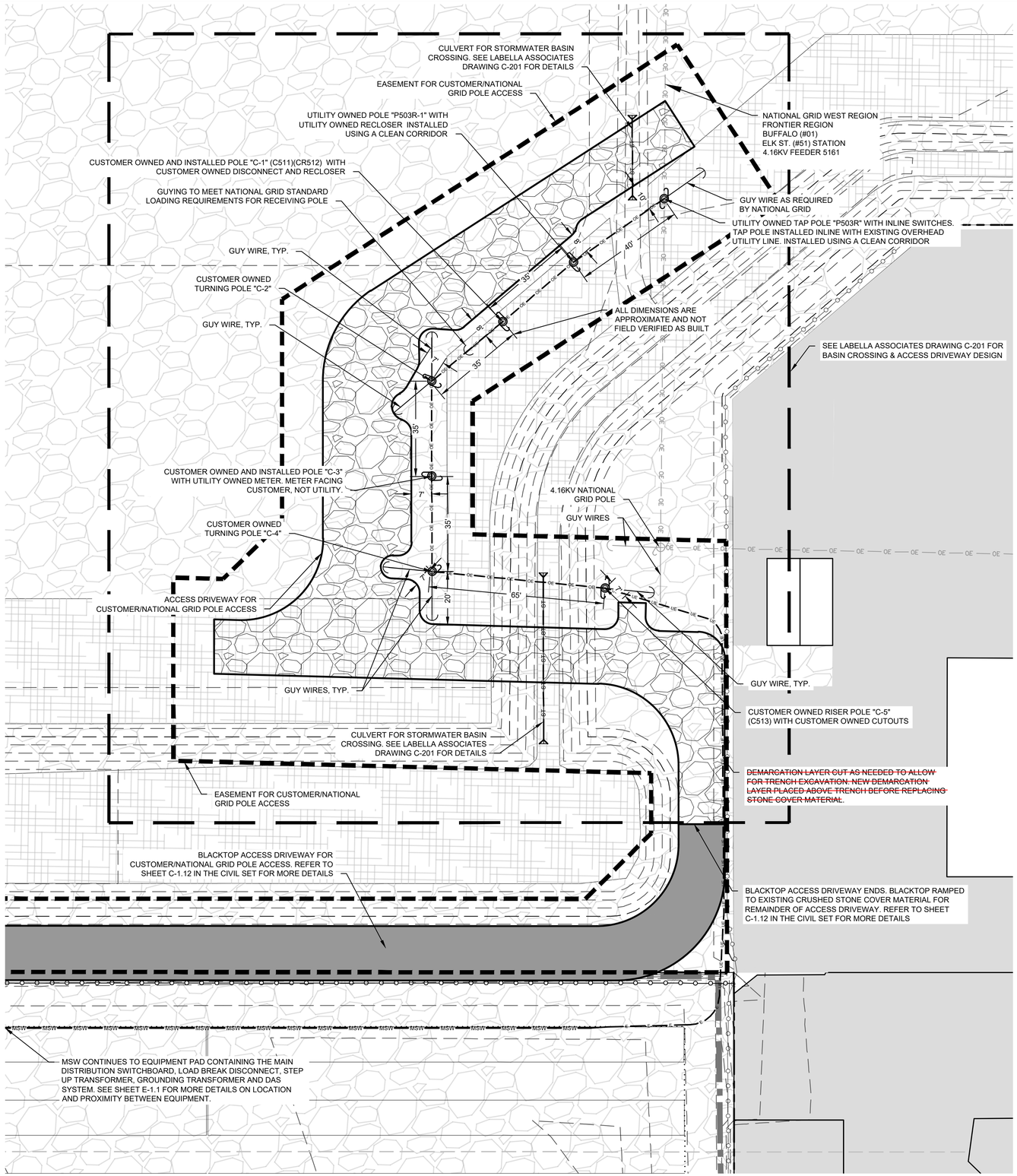
INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
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1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.13



INTERCONNECT PLAN

SCALE: 1"= 20'

DRAWING NOTES:

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SITE PLAN NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE ONLY. DIMENSIONS ARE NOT FIELD SURVEYED AS-BUILT.

LEGEND

- CONTOUR .5' INTERVAL (586.5)
- CONTOUR 5' INTERVAL (585)
- FENCE
- DRIVEWAY
- OVERHEAD ELECTRIC (OE)
- UNDERGROUND ELECTRIC (UE)
- SHALLOW TRENCHING (UE)
- EXTRACTION WELL PIPING (EWP)
- ABOVE GRADE CONDUIT (E)
- UTILITY POLE
- GUY WIRE
- EXTENT OF GSL LINER/UNDERDRAIN
- BUILDING
- PAVEMENT HATCH
- PAVEMENT HATCH
- CRUSHED STONE CAP MATERIAL
- STORMWATER BASIN
- UTILITY EASEMENT
- GRAVEL

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

RECORD DRAWINGS

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INTERCONNECT PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.14

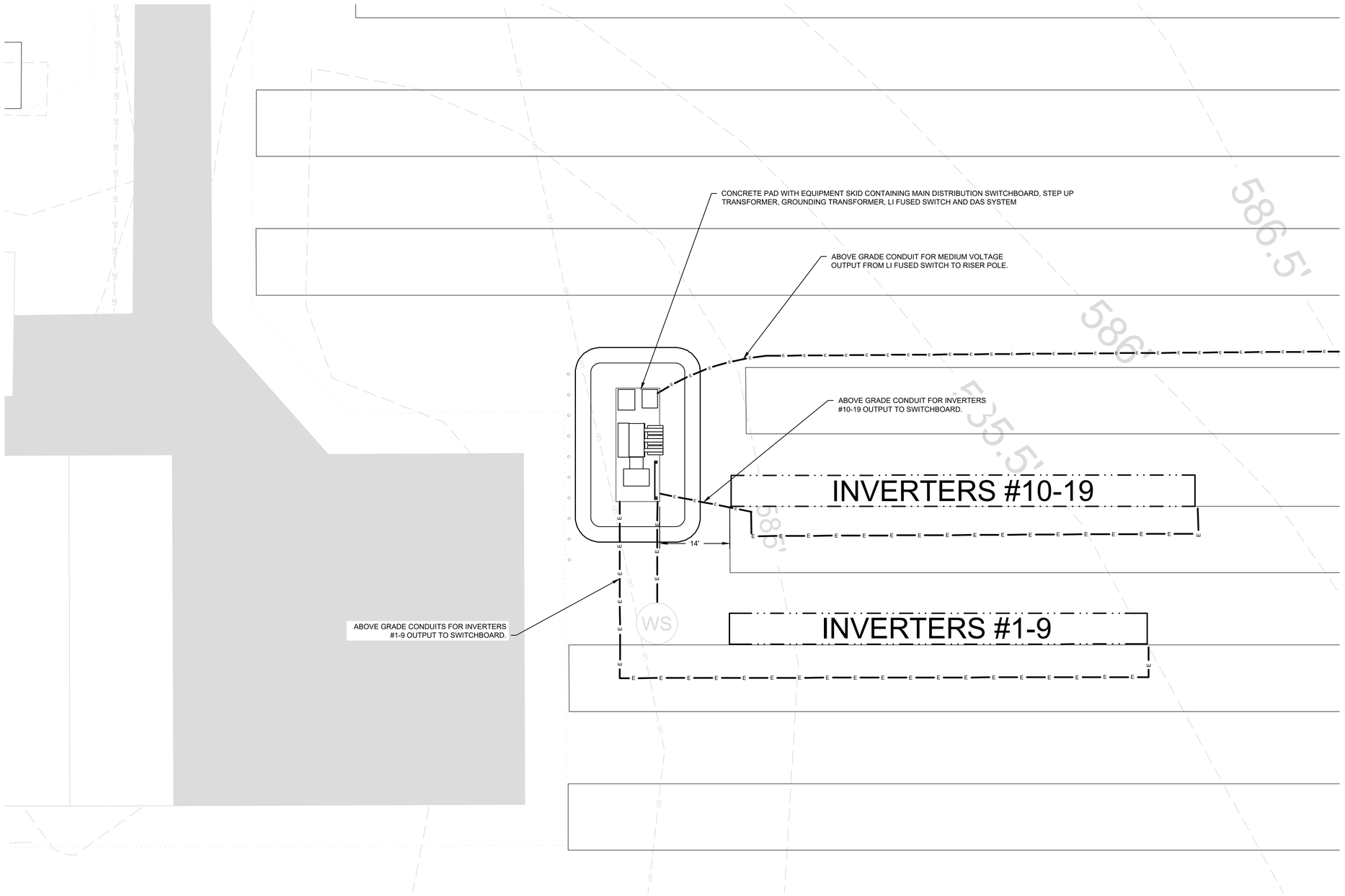
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LEGEND

E E E — ABOVE GRADE CONDUIT

EQUIPMENT PAD



EQUIPMENT PAD LAYOUT PLAN

SCALE: 1"= 10'

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

NAD83 NY-WEST

TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK — JENNIFER SUZANNE CROWLEY — 100556 — LICENSED PROFESSIONAL ENGINEER

12/1/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

EQUIPMENT PAD
LAYOUT PLAN

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
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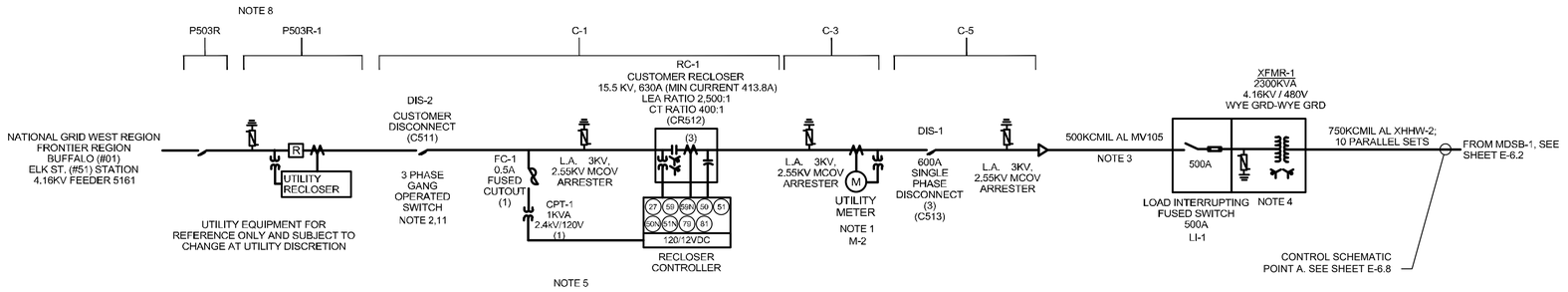
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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-1.15

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SMA SUNNY HIGHPOWER PEAK3 125-US

NOMINAL APPARENT POWER AC	125 KVA
RATED OUTPUT POWER AC	125 KW
OPERATING VOLTAGE	480 V
ELECTRICAL SERVICE	3 AC 480V WYE + N
MAX CONTINUOUS CURRENT	151 RMS
PEAK EFFICIENCY	98.5%
WEIGHTED EFFICIENCY	98%
REGULATORY COMPLIANCE	UL 1741SB, IEEE 1547(2018)

SYSTEM CAPACITY

NUMBER OF INVERTERS	19 (NOTE 7)
TOTAL CAPACITY (AC)	2300 KVA/ 2300KW (NOTE 7)
TOTAL CAPACITY (DC)	3,599 KW
MODULE WATTAGE/QTY	545W/ 6,604

DRAWING NOTES:

1. EPC SUPPLIED POLE MOUNTED METERING EQUIPMENT PER UTILITY SPECIFICATIONS.
2. SIGNAGE INCLUDES "PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH" DISCONNECTING MEANS INSTALLED AT A READILY ACCESSIBLE LOCATION. DISCONNECT IS A SIEMENS VECTOR ASSEMBLY 963V-45A, 900A (MINIMUM CURRENT RATING AT LEAST 413.8A), 25KV GANG OPERATED DISCONNECT THAT CAN BE LOCKED IN THE OPEN POSITION.
3. 5KV CABLE IN CONDUIT. MV-105 WITH 133% INSULATION LEVEL AND FULL CONCENTRIC NEUTRAL.
4. TRANSFORMER AS-BUILT 5-LEGGED CORE CONSTRUCTION, 5.88%Z, X/R=5.9 AND DESIGNED FOR STEP UP OPERATION.
5. THE RECLOSER AS-BUILT IS A G&W VIPER RECLOSER WITH 5V MAX LEA (PT) RATIO OF 2,500:1 AND CT RATIO OF 400:1. THE RECLOSER CONTROLLER IS A SEL-651R2 AND WILL OPEN THE RECLOSER FOR THE INDICATED SYSTEM CONDITIONS. THE SEL651R ALSO PROVIDES FAIL SAFE CONTROLS BY TRIPPING FOR LOSS OF AC POWER AND BTFAIL (12VDC BATTERY AND/OR TEST FAILURE) CONDITIONS. THE RECLOSER PROVIDES OPEN PHASE PROTECTION AND RECLOSING WILL BE ALLOWED ONCE VOLTAGE AND FREQUENCY IS RESTORED TO NORMAL LEVELS.
6. C-1 INCLUDES THE CUSTOMER OWNED GOAB AND THE CUSTOMER OWNED RECLOSER, C-3 INCLUDES THE UTILITY OWNED METER, C-5 INCLUDES THE DISCONNECT AND RISER. U-2 IS UTILITY OWNED AND INCLUDES UTILITY OWNED RECLOSER.
7. PROJECT TO BE SOFTWARE LIMITED TO 2300KW AT THE POI BY LIMITING INVERTER #1-10 TO 121.1KW AND #11-19 TO 121.0KW.
8. P503R AND P503R-1 INSTALLED BY THE UTILITY. UTILITY METER CT AND PT RATIOS PROVIDED BY THE UTILITY.
9. XFMR-1 AND GT-1 ARE SPACED 3 FT APART ON THE EQUIPMENT PAD.
10. SEPARATE GROUNDING CONDUCTOR TO GROUND GRID FOR LIGHTNING ARRESTERS.
11. GOAB (DIS-2) ACCESSIBLE TO UTILITY 24/7.

INTERCONNECTION SINGLE LINE DIAGRAM

WIRE AND CONDUIT SCHEDULE - INTERCONNECTION

FROM	TO	COMMENT	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[1] (%)	MIN. NEUTRAL WIRE SIZE	EQUIPMENT GROUNDING CONDUCTOR (CU)	SHALLOW BURIED ON LANDFILL/ABOVE GROUND CONDUIT TYPE	NORMAL BURIAL DEPTH CONDUIT TYPE	CONDUIT SIZE[3]
XFMR-1	LBD	AC INTERCONNECT CIRCUIT	3	MV-105 (AL, 5KV 133%)	2	#4/0	10	0.01%	N/A	N/A	N/A	PVC	4"[2]
LBD	C-5	AC INTERCONNECT CIRCUIT	3	MV-105 (AL, FULL CONCENTRIC NEUTRAL, 15KV 133%)	2	#4/0	995	0.54%	N/A	N/A	PVC	PVC	4"[2]
C-5	C-4	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	75	0.11%	WAXWING	#2	N/A	N/A	N/A
C-4	C-3	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
C-3	C-2	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
C-2	C-1	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
C-1	P503R-1	AC INTERCONNECT CIRCUIT	3	ACSR	1	WAXWING	40	0.06%	WAXWING	#2	N/A	N/A	N/A
P503R-1	P503R	BY UTILITY	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:
1. AC VOLTAGE DROP CALCULATIONS ASSUME POWER FACTOR = 1.
2. CIRCUIT MAY BE SEPARATED INTO PARALLEL CONDUITS OF A SMALLER SIZE.
3. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

RECORD DRAWINGS

JENNIFER SUZANNE GRONDIN
STATE OF NEW YORK
LICENSED
PROFESSIONAL ENGINEER
100556
12/17/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

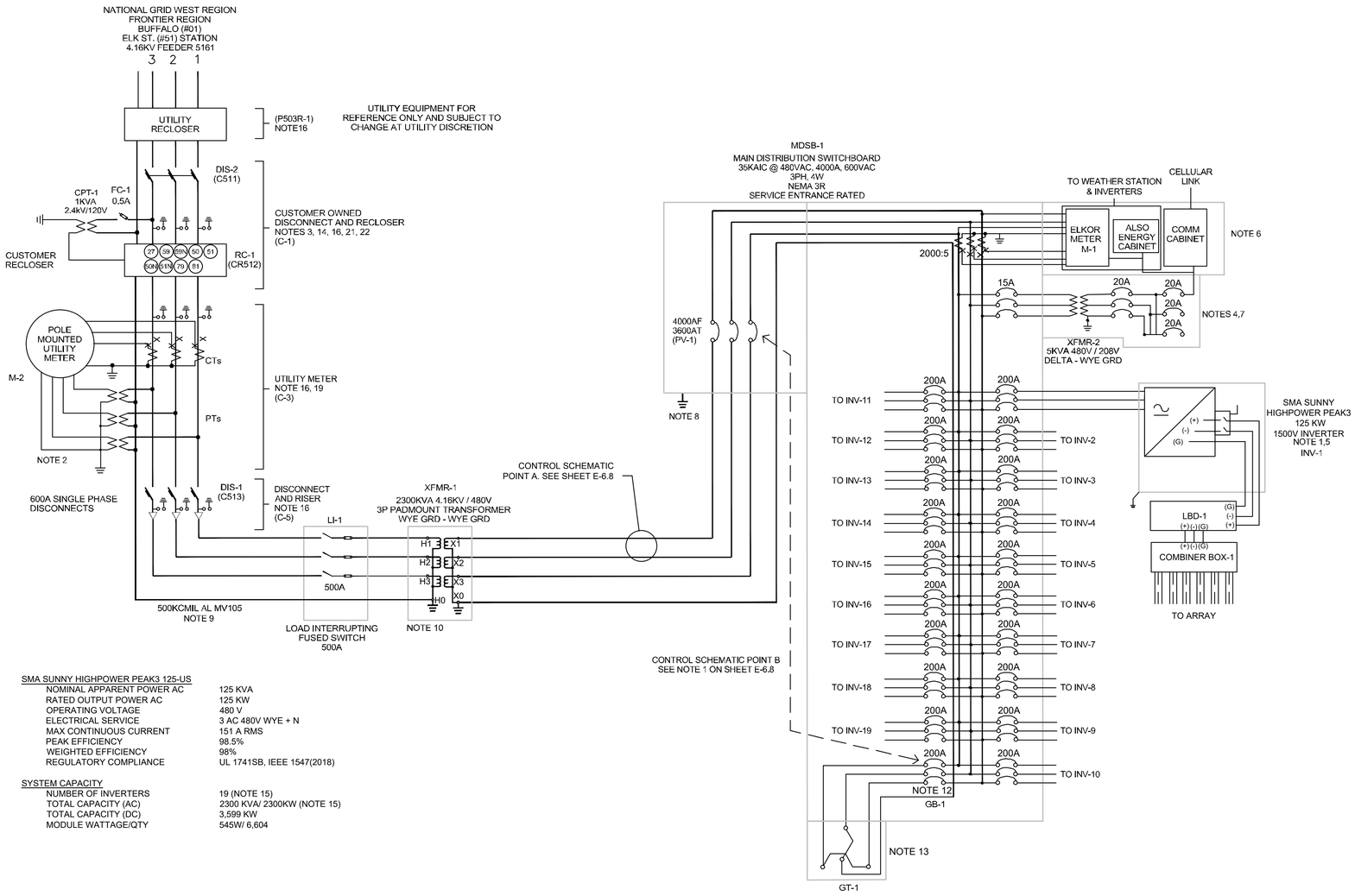
INTERCONNECTION
SINGLE LINE DIAGRAM

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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SCALE	AS SHOWN	DESIGNED BY: TSB, JAT	
		CHECKED BY: TSB, JSC	C&A JOB# 5566.03
		APPROVED BY: JSC	DRAWING: E-6.0



SYSTEM THREE LINE DIAGRAM

RECORD DRAWING NOTES:

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DRAWING NOTES:

1. THE INVERTERS WILL AUTOMATICALLY DE-ENERGIZE THE OUTPUTS IF THE UTILITY GRID IS REMOVED AND WILL NOT RE-ENERGIZE FOR 5 MINUTES AFTER ACCEPTABLE UTILITY VOLTAGE LEVELS ARE ESTABLISHED.
2. EPC SUPPLIED POLE MOUNTED METERING EQUIPMENT PER UTILITY SPECIFICATIONS.
3. SIGNAGE INCLUDING "PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH" DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION. DISCONNECT IS A SIEMENS VECTOR ASSEMBLY 963V-45A, 900A, 25KV GANG OPERATED DISCONNECT THAT CAN BE LOCKED IN THE OPEN POSITION.
4. LIGHTS AND 120V GFI OUTLETS INCLUDED IN SWITCHPAD.
5. WIRES TO INVERTERS ARE 3W, 1GRD.
6. WEATHER STATION, PV METER AND TELECOMMUNICATIONS EQUIPMENT MOUNTED IN NEMA 3R PANEL AND MOUNTED TO SWITCHBOARD. POWER SUPPLIED FROM MINI POWER ZONE.
7. 120V POWER FED FROM SQUARE D MINI POWER ZONE (MPZSS40F) OR EQUIVALENT.
8. THE GROUND GRID IS CONSTRUCTED OF 4/0 BARE CONDUCTOR WITH A MAXIMUM RESISTANCE TO GROUND OF 5 OHMS.
9. 15KV CABLE IN CONDUIT. MV-105 WITH 133% INSULATION LEVEL AND FULL CONCENTRIC NEUTRAL.
10. TRANSFORMER AS-BUILT IS A FIVE-LEGGED CORE, 5.88%Z, X/R=5.9 AND DESIGNED FOR STEP UP OPERATION.
11. MAIN BREAKER AS-BUILT IS 100% RATED.
12. GB-1 BREAKER AS-BUILT IS A SQUARE D J FRAME TYPE BREAKER WITH AUXILIARY CONTACTS. PV-1 BREAKER IS INTERLOCKED TO TRIP WHEN THE GB-1 BREAKER IS OPEN.
13. GROUNDING TRANSFORMER AS-BUILT IS A 3 PHASE ZIG-ZAG 119.3KVA GROUNDING TRANSFORMER RATED FOR 430A NEUTRAL CURRENT, 144A PHASE CURRENT, X/R OF 4.7, ZERO SEQ IMPEDANCE (ZG) OF 0.092 OHMS AND SHORT CIRCUIT RATING OF 6143A.
14. THE RECLOSER AS-BUILT IS A G&W VIPER RECLOSER WITH 5V MAX LEA (PT) RATIO OF 2,500:1 AND CT RATIO OF 400:1. THE RECLOSER CONTROLLER IS A SEL-651R2 AND WILL OPEN THE RECLOSER FOR THE INDICATED SYSTEM CONDITIONS. THE SEL651R WILL ALSO PROVIDE FAIL SAFE CONTROLS BY TRIPPING FOR LOSS OF AC POWER AND BTFAIL (12VDC BATTERY AND/OR TEST FAILURE) CONDITIONS. THE RECLOSER WILL PROVIDE OPEN PHASE PROTECTION AND RECLOSING WILL BE ALLOWED ONCE VOLTAGE AND FREQUENCY IS RESTORED TO NORMAL LEVELS.
15. PROJECT IS SOFTWARE LIMITED TO 2300KW AT THE POI BY DERATING INVERTERS #1-10 TO 121.1KW AND #11-19 TO 121.0KW. A LETTER FROM THE MANUFACTURER IS REQUIRED SHOWING INVERTERS ARE DERATED.
16. C-1 INCLUDES THE CUSTOMER OWNED GOAB AND THE CUSTOMER OWNED RECLOSER, C-3 INCLUDES THE UTILITY OWNED METER, C-5 INCLUDES THE DISCONNECT AND RISER. P503R-1 IS UTILITY OWNED AND TO INCLUDE UTILITY OWNED RECLOSER.
17. THREE LINE DIAGRAM BASED ON UTILITY COORDINATION DRAWING TITLED "THREE LINE UTILITY INTERCONNECTION", REVISION NUMBER 6, DATED JANUARY 13, 2022 BY JEM ENGINEERING SERVICES, LLC.
18. BIFACIAL GAIN ASSUMED TO BE 12%.
19. P503R AND P503R-1 INSTALLED BY THE UTILITY. UTILITY METER CT AND PT RATIOS PROVIDED BY THE UTILITY.
20. XFMR-1 AND GT-1 ARE SPACED 3 FT APART ON THE EQUIPMENT PAD.
21. USE SEPARATE GROUNDING CONDUCTOR TO GROUND GRID FOR LIGHTNING ARRESTERS.
22. GOAB (DIS-2) IS ACCESSIBLE TO UTILITY 24/7.

SMA SUNNY HIGHPOWER PEAK3 125-US

NOMINAL APPARENT POWER AC	125 KVA
RATED OUTPUT POWER AC	125 KW
OPERATING VOLTAGE	480 V
ELECTRICAL SERVICE	3 AC 480V WYE + N
MAX CONTINUOUS CURRENT	151 A RMS
PEAK EFFICIENCY	98.5%
WEIGHTED EFFICIENCY	98%
REGULATORY COMPLIANCE	UL 1741SB, IEEE 1547(2018)

SYSTEM CAPACITY

NUMBER OF INVERTERS	19 (NOTE 15)
TOTAL CAPACITY (AC)	2300 KVA/ 2300KW (NOTE 15)
TOTAL CAPACITY (DC)	3,599 KW
MODULE WATTAGE/QTY	545W/ 6,604

SYSTEM SUMMARY

DESCRIPTION	VALUE	UNITS
MAXIMUM AC CAPACITY, NOMINAL	2,300	KW-AC
MAXIMUM DC CAPACITY	3,599	KW-DC
DC-AC RATIO	1.56	RATIO
ROW SPACING	14.0	FEET
GROUND COVER RATIO	0.55	RATIO
INVERTER: SMA SUNNY HIGHPOWER PEAK3 125-US		
INVERTER OUTPUT VOLTAGE	480	VOLTS
INVERTER OUTPUT POWER, NOMINAL[1]	125	KW-AC
TOTAL NUMBER OF INVERTERS	19	EACH
NUMBER OF STRINGS PER INVERTER		
INVERTER #1-#7	14	EACH
INVERTER #8-#19	13	EACH
MODULE: VSUN545-144BMH-DG		
MODULE POWER RATING	545	WATTS-DC
TOTAL NUMBER OF MODULES	6,604	EACH
MODULES PER RACK, VERTICALLY	2	PORTRAIT
MODULES PER STRING	26	EACH
MAX DC SYSTEM VOLTAGE	1,500	VOLTS
NUMBER OF STRINGS	254	EACH
TILT ANGLE	30	DEGREES
AZIMUTH ANGLE	14	DEGREES

[1] INVERTER #1-10 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.1KW-AC. INVERTER #11-19 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.0KW-AC.

REV #	DESCRIPTION	DATE	BY
1	ADDED SYSTEM SUMMARY TABLE	10/21/25	ESA

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

SYSTEM THREE LINE DIAGRAM

RECORD DRAWINGS



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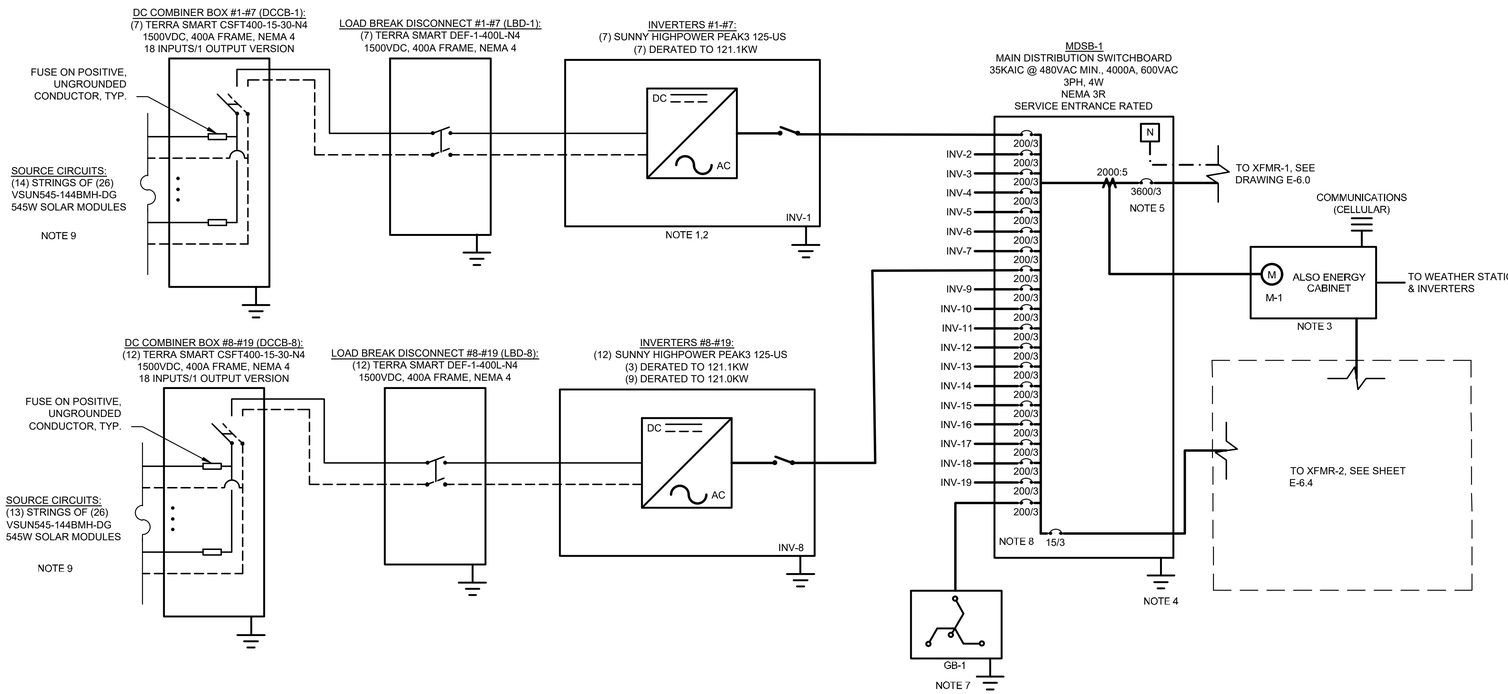
DRAWING: E-6.1

RECORD DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
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LEGEND

- DC POWER - POSITIVE
- DC POWER - NEGATIVE
- AC POWER, 3 PHASE



INVERTER WIRING DIAGRAM

DRAWING NOTES:

1. THE INVERTERS AUTOMATICALLY DE-ENERGIZE THE OUTPUTS IF THE UTILITY GRID IS REMOVED AND DO NOT RE-ENERGIZE FOR 5 MINUTES AFTER ACCEPTABLE UTILITY VOLTAGE LEVELS ARE ESTABLISHED.
2. WIRES TO INVERTERS ARE 3W, 1GRD.
3. WEATHER STATION, PV METER AND TELECOMMUNICATIONS EQUIPMENT ARE MOUNTED IN NEMA 3R PANEL AND MOUNTED TO SWITCHBOARD. POWER TO BE SUPPLIED FROM MINI POWER ZONE.
4. THE GROUND GRID IS CONSTRUCTED OF 4/0 BARE CONDUCTOR WITH A MAXIMUM RESISTANCE TO GROUND OF 5 OHMS.
5. MAIN BREAKER IS 100% RATED.
6. GB-1 BREAKER IS A SQUARE D J FRAME TYPE BREAKER WITH AUXILIARY CONTACTS. PV-1 BREAKER IS INTERLOCKED TO TRIP WHEN THE GB-1 BREAKER IS OPEN.
7. GROUNDING TRANSFORMER IS A 3 PHASE ZIG-ZAG 119.3KVA GROUNDING TRANSFORMER RATED FOR 430A NEUTRAL CURRENT, 144A PHASE CURRENT, X/R OF 4.7, ZERO SEQ IMPEDANCE (ZG) OF 0.092 OHMS AND SHORT CIRCUIT RATING OF 6143A.
8. PROJECT IS SOFTWARE LIMITED TO 2300KW AT THE POI BY LIMITING INVERTER #1-10 TO 121.1KW AND #11-19 TO 121.0KW.
9. BIFACIAL GAIN ASSUMED TO BE 12%.

SYSTEM DESIGN CALCULATIONS

DESCRIPTION	CALCULATION
THE NUMBER OF MODULES IN A STRING IS BASED ON MANUFACTURER'S SPECIFICATIONS FOR THE TEMPERATURE CO-EFFICIENT FOR VOLTAGE. FOR THE VSUN545-144BMH-DG (545W) MODULE IS -0.27%/ºC AT AN AMBIENT TEMPERATURE OF 25ºC. BASED ON THE RECORD LOW OF -18.6ºC THE TEMPERATURE DIFFERENTIAL IS 43.6ºC. FORMULA: VOC*TEMPERATURE DIFFERENTIAL*TEMPERATURE COEFFICIENT	VOLTAGE INCREASE FOR 43.6ºC DIFFERENTIAL IS = 49.81Vx(43.6Vx0.0027) = 5.86V MODULE MAXIMUM ALLOWABLE MODULES IN SERIES FOR A 1500V SYSTEM = 1500V/(49.81V+5.86V) = 26.94 NUMBER OF MODULES IN SERIES IN ONE STRING SELECTED = 26 MODULES TOTAL OPEN CIRCUIT VOLTAGE WITH CORRECTION FACTOR = 26x(49.81V+5.86V) = **1447.42V**
BIFACIAL GAIN OF 12% INCLUDED IN CALCULATIONS (PER NEC 2017 690.8(A)(1)(1), SAM SIMULATION RESULTS) FORMULA: I_{MP} OF MODULE*1.12	I_{MAX} = 13.04A*1.12 = **14.605A**
STRING FUSE DISCONNECT SIZING (PER NEC 2017 690.9B) FORMULA: I_{MAX}*1.25	1 STRING (26 MODULES) = 14.605A*1.25 = 18.256A. NEXT SIZE UP = **20A**
COMBINER BOX MAX CURRENT FORMULA (PER NEC 2017 690.8(A)(1)) FORMULA: I_{MAX} *NUMBER OF STRINGS	$ISC_{MAX,PCCB}$ =14.605A*14 = **204.47A**
COMBINER BOX FUSE DISCONNECT SIZING (PER NEC 2017 690.9(B)) FORMULA: I_{MAX} *1.25*NUMBER OF STRINGS	14 STRING COMBINER BOX =14.605A*1.25*14 = 255.58A. NEXT SIZE UP = **300A**
14 STRING COMBINER BOX OUTPUT CONDUCTOR SIZING PER NEC 2017 690.8(A)&(B): FORMULA: I_{MAX} *1.25*NUMBER OF STRINGS	14 STRING COMBINER BOX = 14.605A*1.25*14 = **255.58A** PER NEC 2017 TABLE 310.15(B)(16) FOR ALUMINUM CONDUCTORS WITH 90ºC TEMPERATURE RATING, 300KCMIL CONDUCTOR CAN HANDLE UP TO 260A.
THERMAL AMPACITY CORRECTIONS	SEE ELK STREET PRELIMINARY THERMAL AMPACITY AND CONDUIT FILL STUDY

RECORD DRAWINGS



REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

INVERTER WIRING DIAGRAM

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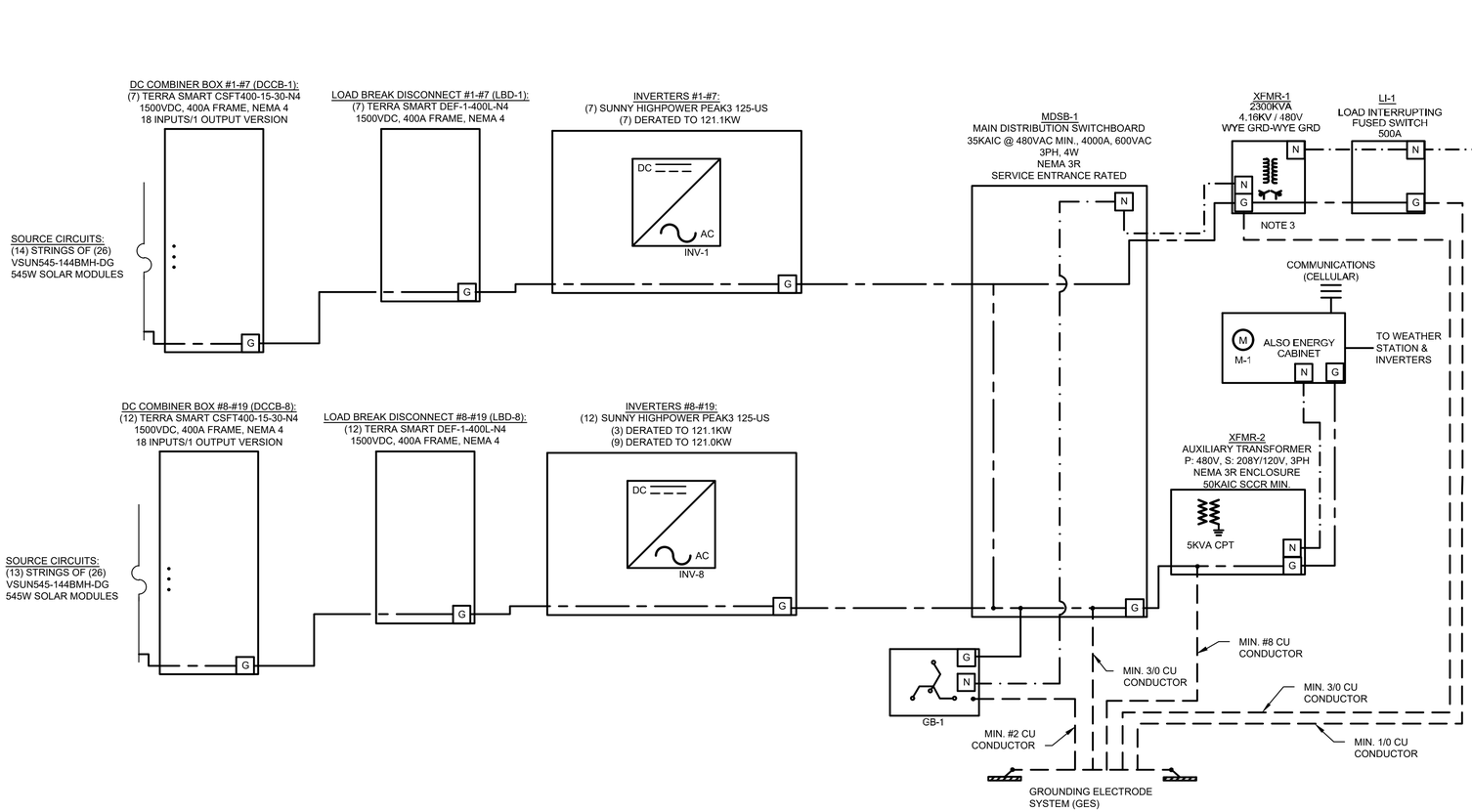
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RECORD DRAWING NOTES:

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LEGEND

- EQUIPMENT GROUNDING CONDUCTOR (EGC)
- GROUNDING ELECTRODE CONDUCTOR (GEC)
- GROUNDED CONDUCTOR (NEUTRAL)
- GROUND PLATE

DRAWING NOTES:

1. THE GROUND GRID IS CONSTRUCTED OF 4/0 BARE CONDUCTOR WITH A MAXIMUM RESISTANCE TO GROUND OF 5 OHMS.
2. SEE CONDUCTOR SCHEDULES ON SHEETS E-6.5 THROUGH E-6.6 FOR EGC SIZES.
3. N-G BOND TO OCCUR AT XFMR-1 AND RISER POLE (C-5) WITH MIN. 1/0 CU CONDUCTOR.
4. N-G BOND TO OCCUR AT XFMR-2 WITH MIN. #8 CU CONDUCTOR.

GROUNDING DIAGRAM

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT
CITY OF BUFFALO — ERIE COUNTY, NY

GROUNDING DIAGRAM

RECORD DRAWINGS



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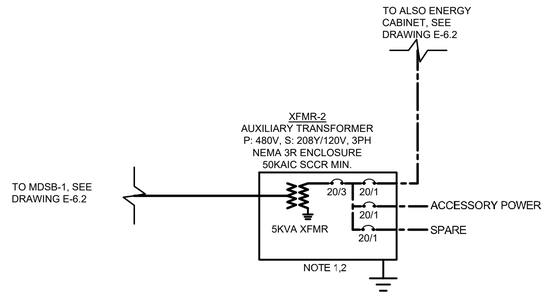
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LEGEND

- AC POWER, SINGLE PHASE
- AC POWER, 3 PHASE

DRAWING NOTES:
1. LIGHTS AND 120V GFI OUTLETS INCLUDED IN SWITCHPAD.
2. 120V POWER FED FROM SQUARE D MINI POWER ZONE (MPZ5S40F) OR EQUIVALENT.



AUXILIARY POWER DIAGRAM

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE CRAWFORD · LICENSED PROFESSIONAL ENGINEER · 100556 · 12/17/2025

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ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AUXILIARY POWER DIAGRAM

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DRAWING: E-6.4

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WIRE AND CONDUIT SCHEDULE - DC

FROM	TO	COMMENT	OCPD RATING	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS[4]	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[5] (%)	EQUIPMENT GROUNDING CONDUCTOR WIRE SIZE (CU)[2]	SHALLOW BURIED ON LANDFILL/ABOVE GROUND CONDUIT TYPE	NORMAL BURIAL DEPTH CONDUIT TYPE	CONDUIT SIZE[7]
PV MODULES	INVERTERS	PV SOURCE CIRCUITS, TYP.	30	2	PV CABLE (CU, 1500V)	1	#10	250	0.87%	#6	N/A	N/A	SEE NOTE 5
DCCB-01	LBD-01	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	500	750	1.11%	#1	PVC	N/A	3-1/2"
DCCB-02	LBD-02	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	500	660	0.98%	#1	PVC	N/A	3-1/2"
DCCB-03	LBD-03	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	545	1.01%	#2	PVC	N/A	3"
DCCB-04	LBD-04	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	585	1.08%	#2	PVC	N/A	3"
DCCB-05	LBD-05	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	500	695	1.03%	#1	PVC	N/A	3-1/2"
DCCB-06	LBD-06	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	600	785	0.97%	#1	PVC	N/A	3-1/2"
DCCB-07	LBD-07	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	600	850	1.05%	#1	PVC	N/A	3-1/2"
DCCB-08	LBD-08	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	235	0.63%	#4	PVC	N/A	3"
DCCB-09	LBD-09	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	105	0.28%	#4	PVC	N/A	3"
DCCB-10	LBD-10	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	205	0.55%	#4	PVC	N/A	3"
DCCB-11	LBD-11	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	290	0.77%	#4	PVC	N/A	3"
DCCB-12	LBD-12	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	320	0.85%	#4	PVC	N/A	3"
DCCB-13	LBD-13	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	410	1.01%	#4	PVC	N/A	3"
DCCB-14	LBD-14	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	470	0.87%	#2	PVC	N/A	3"
DCCB-15	LBD-15	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	400	560	1.04%	#2	PVC	N/A	3"
DCCB-16	LBD-16	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	410	1.01%	#4	PVC	N/A	3"
DCCB-17	LBD-17	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	350	0.86%	#4	PVC	N/A	3"
DCCB-18	LBD-18	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	290	0.77%	#4	PVC	N/A	3"
DCCB-19	LBD-19	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	230	0.61%	#4	PVC	N/A	3"
LBD-01	INV-01	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-02	INV-02	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-03	INV-03	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-04	INV-04	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-05	INV-05	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-06	INV-06	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-07	INV-07	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.02%	#4	PVC	N/A	3"
LBD-08	INV-08	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-09	INV-09	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-10	INV-10	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-11	INV-11	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-12	INV-12	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-13	INV-13	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-14	INV-14	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-15	INV-15	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-16	INV-16	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-17	INV-17	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-18	INV-18	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"
LBD-19	INV-19	PV OUTPUT CIRCUITS, TYP.	300	2	RHW-2 (AL)	1	300	10	0.03%	#4	PVC	N/A	3"

NOTES:
1. CONDUCTOR SIZING ASSUMES THAT NO MORE THAN ONE CIRCUIT WILL BE INSTALLED IN EACH CONDUIT. SEE THE "MAXIMUM # OF CONDUCTORS ALLOWABLE" TABLE IF MSW HANGERS ARE TO BE SHARED BY MULTIPLE CIRCUITS.
2. EQUIPMENT GROUNDING CONDUCTORS SIZED 8AWG AND SMALLER THAT ARE SUBJECT TO PHYSICAL DAMAGE MUST BE INSTALLED IN A RACEWAY. WHERE MULTIPLE CIRCUITS ARE IN THE SAME MSW, USE THE MAX EGC FOR ALL CIRCUITS IN THAT BUNDLE.
3. CONDUCTOR TERMINALS SHALL BE RATED TO 75°C MINIMUM ON AC EQUIPMENT, 90°C ON DC EQUIPMENT.
4. EACH PARALLEL SET IS ASSUMED TO CONTAIN (2) CONDUCTORS AND (1) EGC CONTAINED IN (1) CONDUIT FOR DC CIRCUITS.
5. INSTALL PV WIRE IN MESSENGER SUPPORTED WIRING OR USING CABLE CLIPS ATTACHED TO THE RACKING. WHERE INSTALLING IN MSW IS NOT POSSIBLE, INSTALL IN 1/2" CONDUIT. WHEN PENETRATING EQUIPMENT ENCLOSURES, CONDUIT IS NOT NECESSARY, BUT NYLON BUSHINGS, OR APPROVED EQUAL, ARE NECESSARY FOR ABRASION RESISTANCE.
6. DC FUSES SHALL BE LISTED FOR 1,500 VDC. & BE RATED FOR USE IN PV SYSTEMS.
7. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

DC CONDUCTOR SCHEDULE

RECORD DRAWINGS

LICENSED PROFESSIONAL ENGINEER — JENNIFER SUZANNE CROCKFORD — STATE OF NEW YORK — 100556
10/17/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

DC CONDUCTOR SCHEDULE

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE: AS SHOWN	CHECKED BY: TSB, JSC	C&A JOB#: 5566.03
	APPROVED BY: JSC	DRAWING: E-6.5

RECORD DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. THESE COMPILED ENGINEERING RECORD DRAWINGS ARE A COMPILATION OF A COPY OF THE ORIGINAL SEALED ENGINEERING DESIGN DRAWINGS FOR THIS PROJECT, MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THESE COMPILED ENGINEERING RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH C&A CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. C&A'S COMPILATION OF THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS RESULTANT TO INCORRECT, INCOMPLETE, OR OMITTED DATA ON THE CONTRACTOR'S AS-BUILT DRAWINGS - NOR DOES IT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR NON-CONFORMANCE WITH THE ORIGINAL CONTRACT DOCUMENTS.
3. ELECTRICAL AND CIVIL RECORD DRAWING SETS ARE BEING RELEASED WITH A COUPLE OF PUNCHLIST ELECTRICAL ITEMS TO BE COMPLETED AND VERIFIED, INCLUDING UPDATED IRT TESTING, PHOTOS AND INSPECTION RESULTS OF THE NEUTRAL BETWEEN THE GROUNDING TRANSFORMER AND MDSB.

WIRE AND CONDUIT SCHEDULE - AC

FROM	TO	COMMENT	OCPD RATING	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS[4]	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[5] (%)	MIN. NEUTRAL WIRE SIZE	EQUIPMENT GROUND CONDUCTOR WIRE SIZE (CU)[2]	SHALLOW BURIED ON LANDFILL/ABOVE GROUND CONDUIT TYPE	NORMAL BURIAL DEPTH CONDUIT TYPE	CONDUIT SIZE[6]
INV-01	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	75	0.34%	N/A	#4	PVC	N/A	3"
INV-02	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	85	0.38%	N/A	#4	PVC	N/A	3"
INV-03	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	95	0.42%	N/A	#4	PVC	N/A	3"
INV-04	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	105	0.47%	N/A	#4	PVC	N/A	3"
INV-05	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	110	0.49%	N/A	#4	PVC	N/A	3"
INV-06	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	120	0.54%	N/A	#4	PVC	N/A	3"
INV-07	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	130	0.58%	N/A	#4	PVC	N/A	3"
INV-08	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	135	0.60%	N/A	#4	PVC	N/A	3"
INV-09	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	145	0.65%	N/A	#4	PVC	N/A	3"
INV-10	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	40	0.18%	N/A	#4	PVC	N/A	3"
INV-11	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	50	0.22%	N/A	#4	PVC	N/A	3"
INV-12	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	60	0.27%	N/A	#4	PVC	N/A	3"
INV-13	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	65	0.29%	N/A	#4	PVC	N/A	3"
INV-14	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	75	0.33%	N/A	#4	PVC	N/A	3"
INV-15	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	85	0.38%	N/A	#4	PVC	N/A	3"
INV-16	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	90	0.40%	N/A	#4	PVC	N/A	3"
INV-17	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	100	0.45%	N/A	#4	PVC	N/A	3"
INV-18	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	110	0.49%	N/A	#4	PVC	N/A	3"
INV-19	MDSB-1	INVERTER OUTPUT CIRCUIT	200	3	XHHW-2 (AL)	1	250	120	0.54%	N/A	#4	PVC	N/A	3"
MDSB-1	XFMR-1	AC BRANCH CIRCUIT	3600	3	BUSBAR CONNECTION	N/A	N/A	N/A	N/A	BUSBAR NEUTRAL	N/A	N/A	N/A	N/A
MDSB-1	AUX-1	AC BRANCH CIRCUIT	15	3	XHHW-2 (CU)	1	#12	20	0.14%	N/A	#12	RMC	N/A	3/4"
MDSB-1	GB-1	AC BRANCH CIRCUIT	200	3	XHHW-2 (AL)	1	#4/0	20	0.10%	(2)500	#6	RMC	N/A	4"

NOTES:
1. CONDUCTOR SIZING ASSUMES THAT NO MORE THAN THREE-CURRENT CARRYING CONDUCTORS WILL BE INSTALLED IN EACH CONDUIT. SEE THE "MAXIMUM # OF CONDUCTORS ALLOWABLE" TABLE IF MSW HANGERS ARE TO BE SHARED BY MULTIPLE CIRCUITS.
2. EQUIPMENT GROUNDING CONDUCTORS SIZED 8AWG AND SMALLER THAT ARE SUBJECT TO PHYSICAL DAMAGE MUST BE INSTALLED IN A RACEWAY. WHERE MULTIPLE CIRCUITS ARE IN THE SAME MSW, USE THE MAX EGC FOR ALL CIRCUITS IN THAT BUNDLE.
3. CONDUCTOR TERMINALS SHALL BE RATED TO 75°C MINIMUM ON AC EQUIPMENT, 90°C ON DC EQUIPMENT.
4. EACH PARALLEL SET IS ASSUMED TO CONTAIN (2-3) PHASE CONDUCTORS, (1) NEUTRAL AND (1) EGC CONTAINED IN (1) CONDUIT FOR AC CIRCUITS.
5. AC VOLTAGE DROP CALCULATIONS ASSUME POWER FACTOR = 1.
6. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

AC CONDUCTOR SCHEDULE

RECORD DRAWINGS

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AC CONDUCTOR SCHEDULE

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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STATE OF NEW YORK · LICENSED · JENNIFER SUZANNE CROWFORD · 100556 · PROFESSIONAL ENGINEER
12/17/2025

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SCALE AS SHOWN	DESIGNED BY: TSB, JAT	C&A JOB# 5566.03	DRAWING: E-6.6
	CHECKED BY: TSB, JSC		
	APPROVED BY: JSC		

RECORD DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. THESE COMPILED ENGINEERING RECORD DRAWINGS ARE A COMPILATION OF A COPY OF THE ORIGINAL SEALED ENGINEERING DESIGN DRAWINGS FOR THIS PROJECT, MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THESE COMPILED ENGINEERING RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH C&A CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. C&A'S COMPILATION OF THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS RESULTANT TO INCORRECT, INCOMPLETE, OR OMITTED DATA ON THE CONTRACTOR'S AS-BUILT DRAWINGS - NOR DOES IT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR NON-CONFORMANCE WITH THE ORIGINAL CONTRACT DOCUMENTS.
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AUXILIARY POWER SCHEDULE

FROM	TO	COMMENT	OCPD RATING	# OF PHASE COND.	PHASE & NEUTRAL WIRE TYPE	# OF PARALLEL SETS[4]	MIN. PHASE WIRE SIZE	ESTIMATED ONE-WAY DISTANCE (MAX, FEET)	VOLTAGE DROP[5] (%)	MIN. NEUTRAL WIRE SIZE	GROUND WIRE SIZE (CU)[2]	CONDUIT TYPE	CONDUIT SIZE[6]
AUX-1	A.E. CABINET	AC BRANCH CIRCUIT	20	1	XHHW-2 (CU)	1	#12	10	0.40%	#12	#12	LFMC	3/4"
AUX-1	ACCESSORY POWER	AC BRANCH CIRCUIT	20	1	XHHW-2 (CU)	1	#12	10	0.40%	#12	#12	LFMC	3/4"
AUX-1	SPARE	AC BRANCH CIRCUIT	20	1	XHHW-2 (CU)	1	#12	10	0.40%	#12	#12	LFMC	3/4"
A.E DAS (L1)	WEATHER STATION (L31)	WEATHER STATION POWER	N/A	2	XHHW-2 (CU)	1	#14	40	0.09%	N/A	#14	PVC	1-1/2"
A.E DAS (L1)	PY1 (L31)	COMMUNICATION/POWER	N/A	N/A	RS-485	1	N/A	40	N/A	N/A	N/A		
A.E. DAS (L1)	WEATHER STATION (L31)	COMMUNICATION	N/A	N/A	RS-485	1	N/A	40	N/A	N/A	N/A		
SEL-651R RELAY	POI(L51)	SWITCH POWER	N/A	2	XHHW-2 (CU)	1	#14	15	0.26%	N/A	#14	PVC	1"
POI (L51)	RECLOSER	COMM	N/A	N/A	CAT 5E	1	N/A	15	N/A	N/A	N/A		
INV-1 THROUGH INV-19	A.E. DAS (L1)	COMMUNICATION	N/A	N/A	CAT 5E	1	N/A	285	N/A	N/A	N/A	PVC	3/4"
A.E. DAS (L1)	POI (L51)	COMMUNICATION	N/A	N/A	MM FIBER OPTIC	1	N/A	1235	N/A	N/A	N/A	PVC	3/4"

NOTES:
1. CONDUCTOR SIZING ASSUMES THAT NO MORE THAN THREE-CURRENT CARRYING CONDUCTORS WILL BE INSTALLED IN EACH CONDUIT. SIZES MUST BE INCREASED IF CONDUIT IS TO BE SHARED BY MULTIPLE CIRCUITS.
2. EQUIPMENT GROUNDING CONDUCTORS SIZED 8AWG AND SMALLER THAT ARE SUBJECT TO PHYSICAL DAMAGE MUST BE INSTALLED IN A RACEWAY.
3. CONDUCTOR TERMINALS SHALL BE RATED TO 75°C MINIMUM ON AC EQUIPMENT, 90°C ON DC EQUIPMENT.
4. EACH PARALLEL SET IS ASSUMED TO CONTAIN (2-3) PHASE CONDUCTORS, (1) NEUTRAL AND (1) EGC CONTAINED IN (1) CONDUIT.
5. AC VOLTAGE DROP CALCULATIONS ASSUME POWER FACTOR = 1.
6. CONDUCTORS ARE ASSUMED TO BE IN MSW UNLESS OTHERWISE NOTED ON SITE PLAN.

AUXILIARY POWER SCHEDULE

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE CROWLEY · 100556 · LICENSED PROFESSIONAL ENGINEER
12/1/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AUXILIARY POWER SCHEDULE

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
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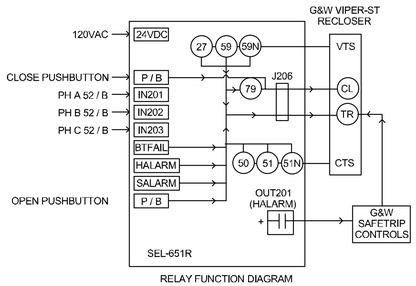
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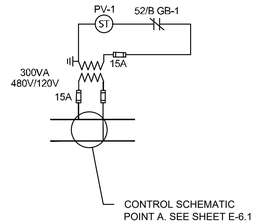
DRAWING: E-6.7

RECORD DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. THESE COMPILED ENGINEERING RECORD DRAWINGS ARE A COMPILATION OF A COPY OF THE ORIGINAL SEALED ENGINEERING DESIGN DRAWINGS FOR THIS PROJECT, MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THESE COMPILED ENGINEERING RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH C&A CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. C&A'S COMPILATION OF THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS RESULTANT TO INCORRECT, INCOMPLETE, OR OMITTED DATA ON THE CONTRACTOR'S AS-BUILT DRAWINGS - NOR DOES IT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR NON-CONFORMANCE WITH THE ORIGINAL CONTRACT DOCUMENTS.
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RELAY FUNCTION DIAGRAM



DRAWING NOTES:
1. PV-1 BREAKER IS INTERLOCKED TO TRIP WHEN THE GB-1 BREAKER IS OPEN. SEE CONTROL SCHEMATIC POINT B ON SHEET E-6.1.

AC CONTROL SCHEMATIC

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

AC CONTROL SCHEMATIC

RECORD DRAWINGS



INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

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1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

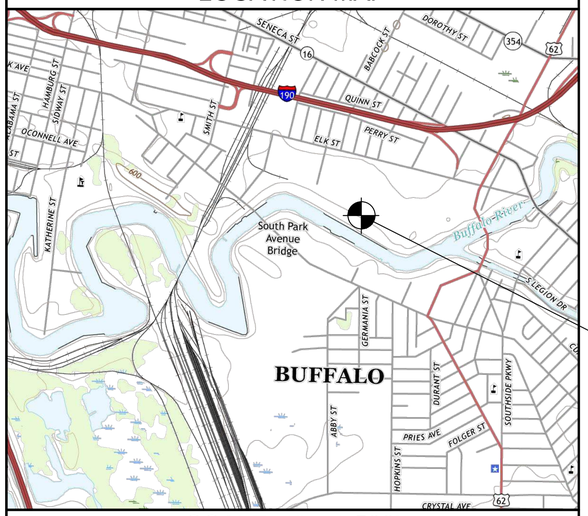
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SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: E-6.8

LOCATION MAP



SITE LOCATION

SCALE: 1" = 1,500'

ELK STREET
SOLAR DEVELOPMENT PROJECT

SITE ADDRESS: 503 ELK STREET, BUFFALO, NY 14210
TAX ID#: 123.13-1-2.111

PREPARED FOR:

INOVATEUS SOLAR LLC

19890 STATE LINE ROAD
SOUTH BEND, IN 46637

ENGINEER:

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre, Suite 300, Hudson New York 12534
www.crawfordandassociates.com
tel: (518) 828-2700
fax: (518) 828-2723

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C&A #: 5566.02

DATE: OCTOBER 14, 2025
REVISED: OCTOBER 21, 2025

RECORD DRAWING SET-CIVIL

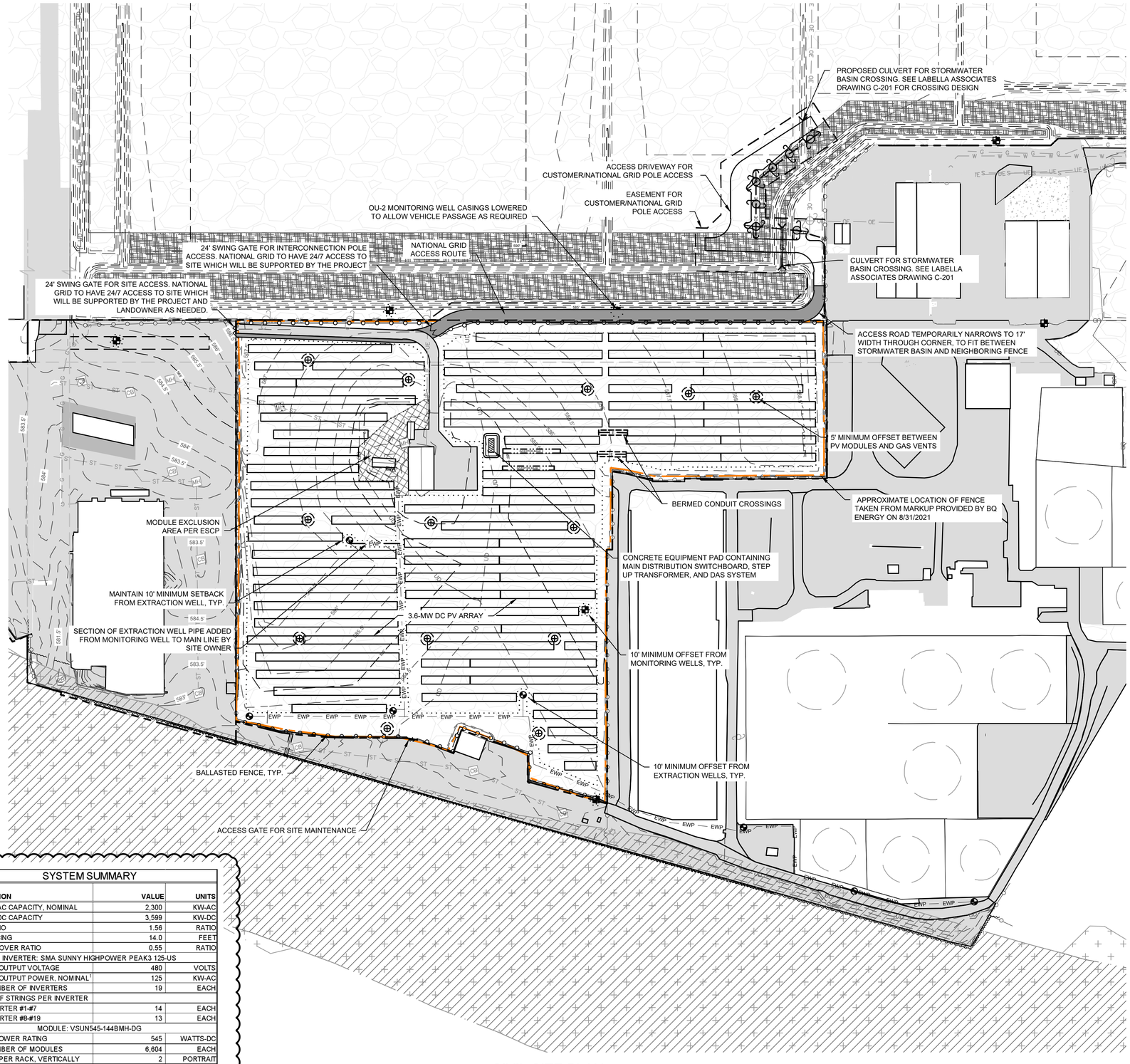
STATE OF NEW YORK
SUZANNE CRAWFORD
LICENSED PROFESSIONAL ENGINEER
100566
10/14/2025

DRAWINGS:

T-0.0 TITLE SHEET

C-1.1 CIVIL SITE PLAN
C-1.7 FENCE DIMENSIONS
C-1.12 DRIVEWAY DESIGN
C-1.13 POLE SPECIFICATIONS

C-5.4 CIVIL CALCULATIONS



CIVIL SITE PLAN

SCALE: 1"= 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
2. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
3. EXISTING MONITORING WELL LOCATIONS TAKEN FROM GPS COORDINATES PROVIDED BY LABELLA ASSOCIATES, P.C. THROUGH BQ ENERGY ON JANUARY 12, 2022, AND APPROXIMATED FROM PDF TITLED "GROUNDWATER CONTOURS FIGURE 4" BY LABELLA ASSOCIATES, P.C. DATED MAY 2021.
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5. ELECTRICAL AND CIVIL RECORD DRAWING SETS ARE BEING RELEASED WITH A COUPLE OF PUNCHLIST ELECTRICAL ITEMS TO BE COMPLETED AND VERIFIED, INCLUDING UPDATED IRT TESTING, PHOTOS AND INSPECTION RESULTS OF THE NEUTRAL BETWEEN THE GROUNDING TRANSFORMER AND MDSB.

LEGEND

- CONTOUR .5' INTERVAL
- CONTOUR 5' INTERVAL
- LEASE LINE
- ROAD EDGE
- FENCE
- STORMWATER LINE
- GAS LINE
- WATER LINE
- FIRE WATER LINE
- SEWER LINE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND ELECTRIC
- EXTRACTION WELL PIPE
- UNDERDRAIN
- EXTENT OF GSL LINER/UNDERDRAIN
- STORMWATER MANHOLE
- STORMWATER CATCH BASIN
- BUILDING
- PAVEMENT HATCH
- PAVEMENT HATCH
- FEMA REGULATORY FLOODWAY
- CRUSHED STONE CAP MATERIAL
- STORMWATER BASIN
- FEMA 1% ANNUAL CHANCE FLOOD ZONE HATCH
- EXTRACTION WELL
- MONITORING WELL
- GAS VENT W/ 5' AND 10' OFFSET
- LIGHT POLE
- UTILITY POLE
- GUY WIRE
- APPROXIMATE UTILITY EASEMENT
- CONCRETE EQUIPMENT PAD
- NATIONAL GRID ACCESS AREA
- BERMED CONDUIT CROSSING
- PV MODULE EXCLUSION AREA PER ESCP

SYSTEM SUMMARY

DESCRIPTION	VALUE	UNITS
MAXIMUM AC CAPACITY, NOMINAL	2,300	KW-AC
MAXIMUM DC CAPACITY	3,599	KW-DC
DC-AC RATIO	1.56	RATIO
ROW SPACING	14.0	FEET
GROUND COVER RATIO	0.55	RATIO
INVERTER: SMA SUNNY HIGHPOWER PEAK3 125-US		
INVERTER OUTPUT VOLTAGE	480	VOLTS
INVERTER OUTPUT POWER, NOMINAL[1]	125	KW-AC
TOTAL NUMBER OF INVERTERS	19	EACH
NUMBER OF STRINGS PER INVERTER		
INVERTER #1-#7	14	EACH
INVERTER #8-#19	13	EACH
MODULE: VSUN545-144BMH-DG		
MODULE POWER RATING	545	WATTS-DC
TOTAL NUMBER OF MODULES	6,604	EACH
MODULES PER RACK, VERTICALLY	2	PORTRAIT
MODULES PER STRING	26	EACH
MAX DC SYSTEM VOLTAGE	1,500	VOLTS
NUMBER OF STRINGS	254	EACH
TILT ANGLE	30	DEGREES
AZIMUTH ANGLE	14	DEGREES

[1] INVERTER #1-10 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.1KW-AC. INVERTER #11-19 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 121.0KW-AC.

REV #	DESCRIPTION	DATE	BY
1	ADDED SYSTEM SUMMARY TABLE	10/21/25	ESA

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

CIVIL SITE PLAN

RECORD DRAWINGS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

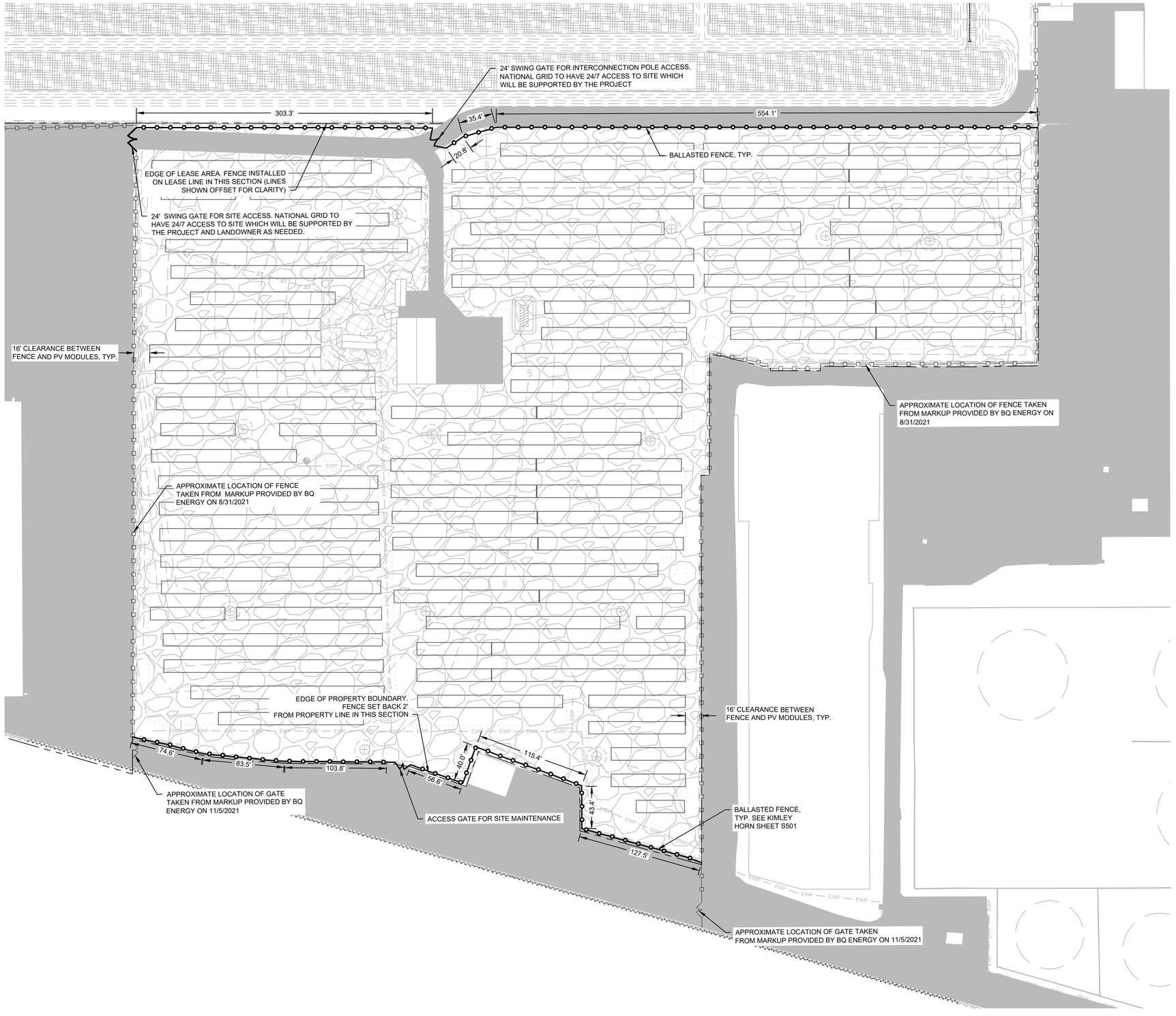
CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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STATE OF NEW YORK · LICENSED · JENNIFER SUZANNE GRACKOWSKI · 100556 · PROFESSIONAL ENGINEER
10/17/2025

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

DATE	10/14/2025
SCALE	AS SHOWN
DRAWN BY:	TSB, JAT, ESA
DESIGNED BY:	TSB, JAT
CHECKED BY:	TSB, JSC
APPROVED BY:	JSC
H:\WORK\5566.02 Elk Street\ENG\Record Drawings\5566.02 SITE - CIVIL.dwg	
C&A JOB#	5566.03
DRAWING:	C-1.1



DRAWING NOTES:

1. RECORD DRAWINGS PREPARED BASED ON FIELD NOTES RECEIVED ON 11/27/2024 FROM INOVATEUS SOLAR, LLC.
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LEGEND

- LEASE LINE
- FENCE
- ACCESS GATE

SITE PLAN NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE ONLY. DIMENSIONS ARE NOT FIELD SURVEYED AS-BUILT.

FENCE DIMENSIONS

SCALE: 1"= 50'

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE CROUCH · LICENSED PROFESSIONAL ENGINEER · 100556

12/17/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

FENCE DIMENSIONS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

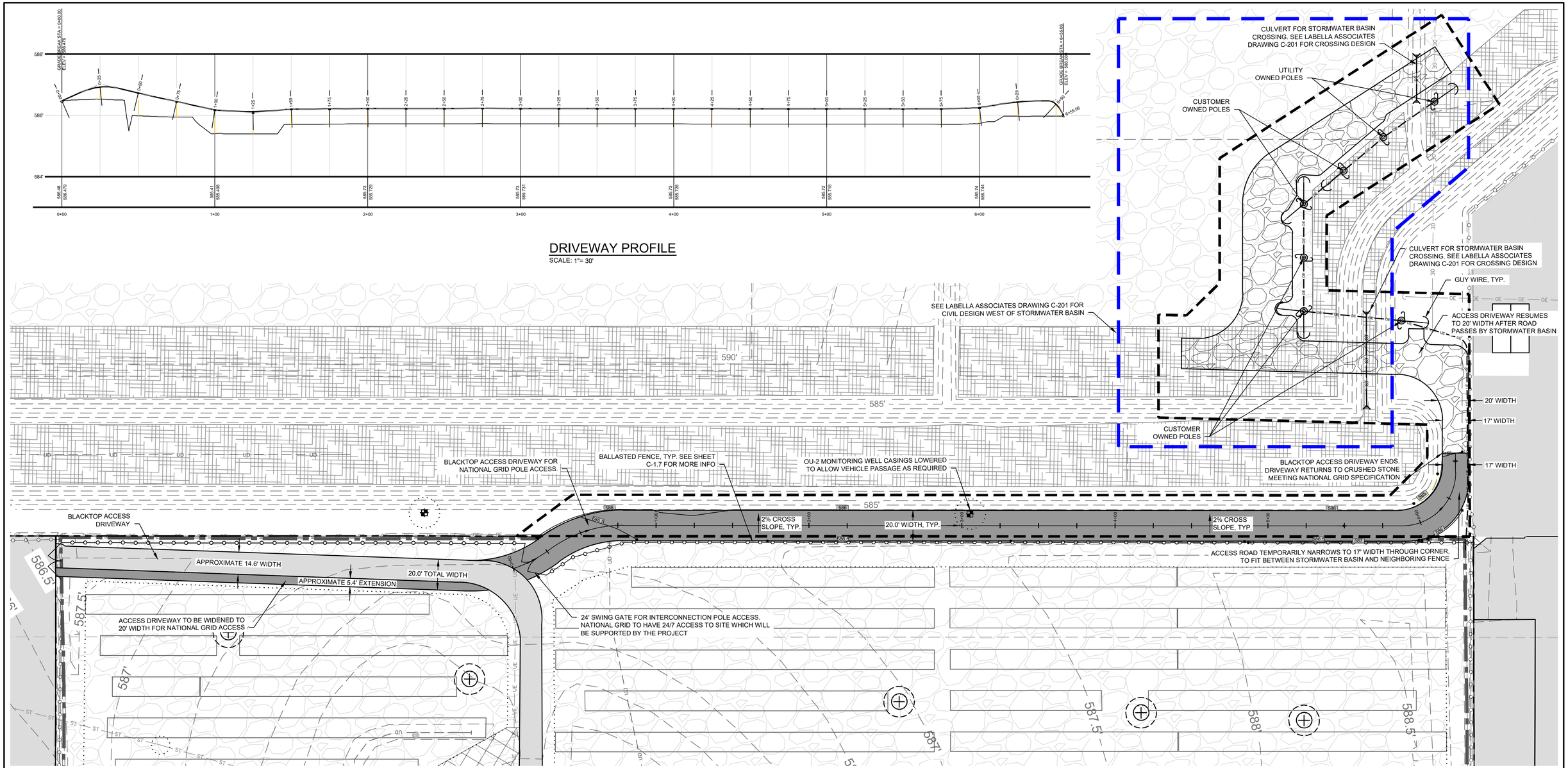
CRAWFORD & ASSOCIATES
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1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: JSC	DRAWING: C-1.7

DRIVEWAY PROFILE

SCALE: 1"= 30'



SITE PLAN NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE ONLY. DIMENSIONS ARE NOT FIELD SURVEYED AS-BUILT.

LEGEND

- 586.5 — CONTOUR .5' INTERVAL
- 585 — CONTOUR 5' INTERVAL
- LEASE LINE
- ROAD EDGE
- FENCE
- ST — STORMWATER LINE
- OE — OVERHEAD ELECTRIC
- UE — UNDERGROUND ELECTRIC
- UE — UNDERGROUND ELECTRIC
- EWP — EXTRACTION WELL PIPE
- UD — UNDERDRAIN
- EXTENT OF GSL LINER/UNDERDRAIN
- CULVERT FOR STORMWATER CROSSING
- NATIONAL GRID ACCESS AREA
- LABELLA CIVIL DESIGN BOUNDARY
- APPROXIMATE EXISTING UTILITY EASEMENT
- PAVEMENT HATCH
- PAVEMENT HATCH
- MONITORING WELL
- GAS VENT W/ 5' AND 10' OFFSET
- STORMWATER BASIN
- CRUSHED STONE CAP MATERIAL

DRIVEWAY DESIGN

SCALE: 1"= 30'

DRAWING NOTES:

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30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE CRONIN · 100556 · LICENSED PROFESSIONAL ENGINEER
10/17/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

DRIVEWAY DESIGN

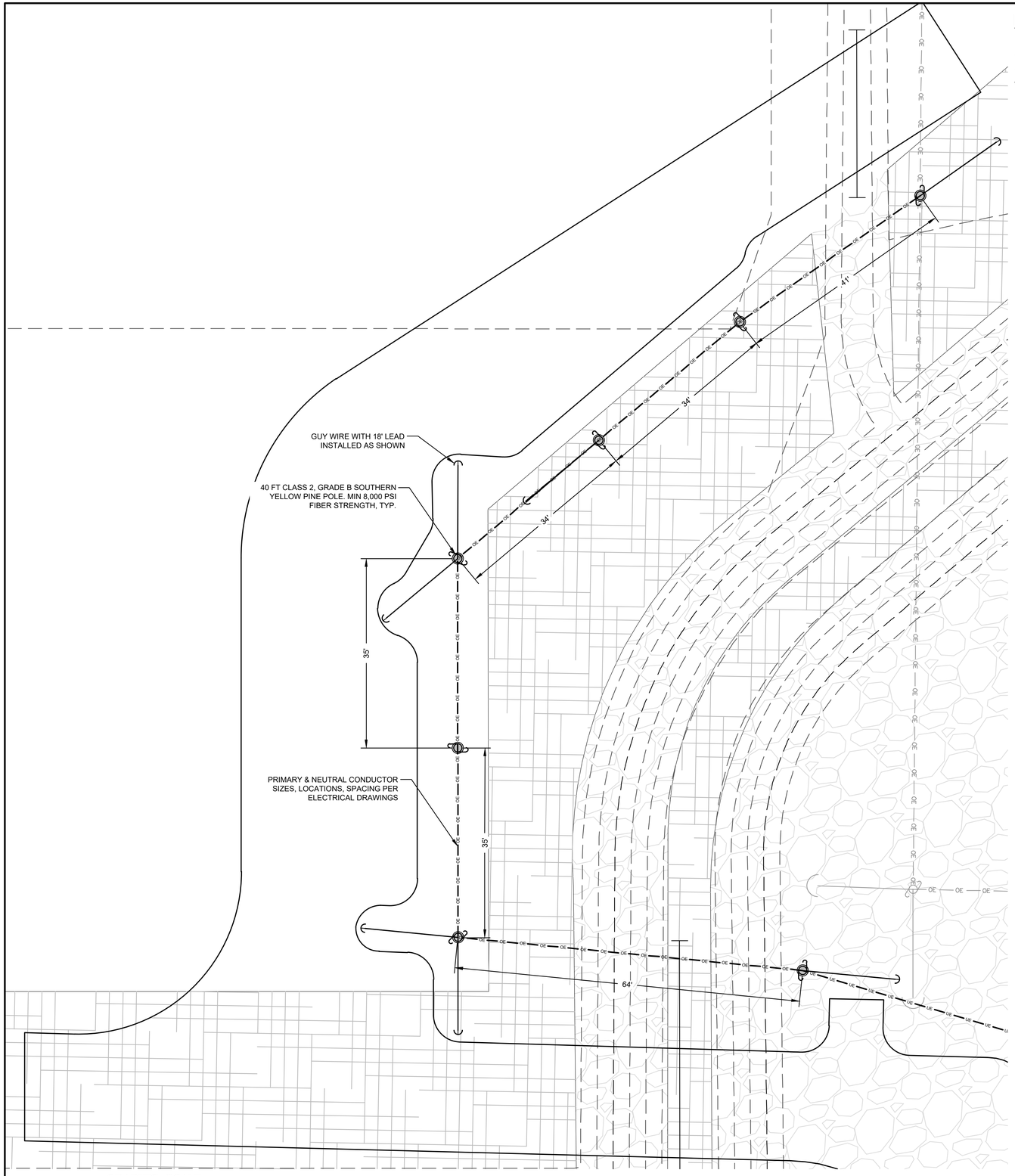
INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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10/14/2025	DESIGNED BY: TSB, JAT	
SCALE	CHECKED BY: TSB, JSC	C&A JOB#
AS SHOWN	APPROVED BY: JSC	5566.03

DRAWING: C-1.12



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

POLE SPECIFICATIONS

SCALE: 1"= 10'

LEGEND

- 586.5 — CONTOUR .5' INTERVAL
- 585 — CONTOUR 5' INTERVAL
- OE — OVERHEAD ELECTRIC
- UE — SHALLOW TRENCHING
- UTILITY POLE
- GUY WIRE
- CRUSHED STONE CAP MATERIAL
- STORMWATER BASIN

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Crossarm Specification Table

Material	Length, ft	Type	Dimensions, in.	Species or Model Number
Wood	8	Double	3.75 x 4.75	DF

SITE PLAN NOTES:
1. ALL DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE ONLY. DIMENSIONS ARE NOT FIELD SURVEYED AS-BUILT.

NAD83 NY-WEST
TRUE NORTH TO BE V.I.F.

RECORD DRAWINGS

STATE OF NEW YORK · JENNIFER SUZANNE GRONOSKI · LICENSED PROFESSIONAL ENGINEER · 100556
DATE: 1/2025

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REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

POLE SPECIFICATIONS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
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10/14/2025	DESIGNED BY: AJD	
SCALE	CHECKED BY: AJD	C&A JOB# 5566.03
AS SHOWN	APPROVED BY: APA	DRAWING: C-1.13

RECORD DRAWING NOTES:

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DIVISION OF DESIGN RESPONSIBILITY

ENGINEER OF RECORD	SCOPE OF WORK
CRAWFORD & ASSOCIATES ENGINEERING & LAND SURVEYING, P.C. 1 HUDSON CITY CENTRE, SUITE 300 HUDSON, NY 12534 (518) 828-2700	- ELECTRICAL ENGINEER OF RECORD - CIVIL ENGINEER OF RECORD
LABELLA ASSOCIATES, P.C. 300 PEARL STREET, SUITE 130 BUFFALO, NY 14202 (761) 551-6281	- ENVIRONMENTAL PERMITTING ENGINEER - STORMWATER BASIN CROSSING DESIGN ENGINEER OF RECORD
KIMLEY-HORN AND ASSOCIATES, INC. 1 NORTH LEXINGTON AVENUE, SUITE 505 WHITE PLAINS, NY 10601 (216) 273-8327	- BALLSTED FENCE DESIGN ENGINEER OF RECORD - EQUIPMENT PAD DESIGN ENGINEER OF RECORD
TERRASMART, LLC. 6715 STEGER DRIVE CINCINNATI, OH 45237 (513) 242-2051	- STRUCTURAL RACKING ENGINEER OF RECORD - MESSENGER SUPPORTED WIRING DESIGN ENGINEER OF RECORD

IT IS ASSUMED THAT THE FOLLOWING FALL OUTSIDE OF THE SCOPE OF C&A AND ARE TO BE COMPLETED BY OTHERS:
- RACKING DESIGN & STRUCTURAL CALCULATIONS IN ACCORDANCE WITH THE RESPECTIVE PCUP DOCUMENT
- FENCING DESIGN & STRUCTURAL CALCULATIONS IN ACCORDANCE WITH THE RESPECTIVE PCUP DOCUMENT
- GEOTECHNICAL TESTING (TO BE SENT TO C&A BY OTHERS FOR INCORPORATION INTO CIVIL DESIGN)
- CAB MESSENGER WIRING DESIGN (PROVIDED BY OTHERS FOR INCORPORATION INTO ELECTRICAL DESIGN)
- SPECIFICATIONS FOR ALL OTHER MAJOR COMPONENTS INCLUDING BUT NOT LIMITED TO MODULES, INVERTERS, COMMUNICATION/MONITIORING SYSTEMS.

DISTURBANCE TABLE:

Site Feature:	Area per item (SF):	QTY:	Area Total (SF):	Area (Acre):	Disturbance:	existing impervious surface:[2]	Installed over Existing Pervious Surface:
IX Equipment Pad	187	1	187	0.00	Y	Y	N
Customer Utility Poles	1	5	5	0.00	Y	N	Y
Utility Owned Utility Poles	25	2	50	0.00	Y	N	Y
Solar Ballasts[1]	36	776	27645	0.63	N	Y	N
Fence Ballasts	5.1	164	836	0.02	Y	Y	N
Trenching	2	198	396	0.01	Y	N	Y
Proposed Driveway	24,700	1	24700	0.57	Y	N	Y
			TOTAL (AC):	0.60		0.66	0.58
						Total Impervious Added (AC):	0.58

[1] BALLAST QUANITY AND GROUND CONTACT AREA FROM TERRASMART RACKING DRAWING RECEIVED ON 7/26/2023.
[2] EXISTING SITE IS ASSUMED TO BE IMPERVIOUS DUE TO IMPERVIOUS GSL LINER AND DRAINAGE SYSTEM BELOW STONE CAP LAYER. ADDING IMPERVIOUS SURFACE ABOVE THE GSL LINER WILL NOT AFFECT INFILTRATION OF STORMWATER

RECORD DRAWINGS

STATE OF NEW YORK
JENNIFER SUZANNE GRANT
100556
LICENSED PROFESSIONAL ENGINEER
12/17/2025

REV #	DESCRIPTION	DATE	BY

ELK STREET
SOLAR DEVELOPMENT PROJECT

CITY OF BUFFALO — ERIE COUNTY, NY

CIVIL CALCULATIONS

INOVATEUS SOLAR LLC
19890 State Line Road
South Bend, IN 46637

CRAWFORD & ASSOCIATES
ENGINEERING & LAND SURVEYING, PC
1 Hudson City Centre #300, Hudson New York 12534 tel: (518) 828-2700
www.crawfordandassociates.com fax: (518) 828-2723

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DATE	10/14/2025	DRAWN BY:	TSB
		DESIGNED BY:	TSB
SCALE	AS SHOWN	CHECKED BY:	JSC
		APPROVED BY:	JSC

H:\WORK\5566.02 Elk Street\DWG\Record Drawings\5566.02 DETAILS.dwg

C&A JOB# 5566.03

DRAWING: C-5.4

APPENDIX 8

Permit Approvals

BUILDING PERMIT

Department of Permit & Inspection Services

65 Niagara Sq Rm. 301
Buffalo, NY 14202

Byron W. Brown, Mayor

Department of Permit & Inspection Services

. . . . Building a Better Buffalo

Application Type: General Construction Permit

You must contact the Inspector at (716)851-4928 or at the number listed below prior to starting any work

Application/Permit No.: GC23-9581448
Address: 503 ELK
Location:
Applicant: INOVATEUS SOLAR, LLC
Phone: (703)501-0935

Issue Date: 10/04/2023
Processed By: THOMAS PUGLISI
Expire Date: 04/04/2024

Fees: [redacted]
License No.: LTC23-10063045
License Type: LIGHT COMMERCIAL CONTRACTOR

SBL No.: 1231300001002111
Land Use: 340
Census Track: 163.00
Inspector: ED FULLAGAR (716)851-4928
efullagar@city-buffalo.com

Value: [redacted]
Plans: Yes

Description of Work: SOLAR DEVELOPMENT PROJECT FOR A NEW (6,604) MODULE SOLAR FARM IN THE (D-IH)) ZONE.
*** PLANS FILED THROUGH IDT ***

*** SEE ATTACHMENTS ***

YOU MUST CONTACT YOUR INSPECTOR PRIOR TO STARTING ANY WORK

Commissioner Permit & Inspection Services

Thank you for investing in the City of Buffalo

AND AS SHOWN ON APPLICATION NUMBERED ABOVE. WHICH APPLICATION IS MADE PART OF THIS PERMIT.
ALL GENERAL CONTRACTORS AND SUB CONTRACTORS MUST CARRY A CITY LICENSE
ALL WORK PERFORMED AND ANY ASSOCIATED PLANS SUBMITTED FOR THE ISSUANCE OF THIS PERMIT, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
THIS PERMIT IS VOID IF FOUND TO BE ISSUED IN VIOLATION OF ANY LAW OR ORDINANCE AND CONDITIONS STATED ABOVE.

THIS PERMIT MUST BE DISPLAYED WHERE IT IS VISIBLE FROM THE STREET

Signature of Contact/Contractor _____ Date: 10/4/2023

Apply for your next Building Permit online at http://www.buffalony.gov

CHRISTOPHER P. SCANLON
Mayor of Buffalo

CATHERINE M. AMDUR
Commissioner

PERMIT & INSPECTION SERVICES

CERTIFICATE OF COMPLIANCE

Certificate No.: 9581448

In accordance with the appropriate laws of the State of New York and or the ordinances of the City of Buffalo, the structures at **503 ELK** Buffalo, New York, having been inspected and found to conform substantially to applicable laws, ordinances, rules or regulations, the portion identified on this certificate is hereby certified for occupancy. This compliance certificate is subject to the limitations specified herein and is valid until revoked unless automatically voided by this certificate being altered in any manner if there is any violation of a law or ordinance found to exist subsequent to the issuance of the certificate, i.e. continued compliance with applicable codes and ordinances is required.

Date Issued: **11/25/2024**

Commissioner of Permit and Inspection Services

Building Construction:

Zoning: **D-IH**

Occupancy:

Permit No.: **GC23-9581448**

Permit Issued: **10/04/2023**

Building Inspector: **Erik Hoepfinger (716)851-4818**

Date of Inspection: **11/25/2024**

Receipt No.: **9581448**

Portion of Building being inspected and certified: **SOLAR DEVELOPMENT PROJECT FOR A NEW (6,604) MODULE SOLAR FARM IN THE (D-IH)) ZONE.*** PLANS FILED THROUGH IDT *** *** SEE ATTACHMENTS *** Inverter type - Unknown / Inverter Output (AC) - 2.3 MW / System Size (DC) - 3.599 MW / Module type - VSUN / Module Count 6,604**

APPENDIX 9

Photolog

TK1

SITE NAME Elk Solar
SITE ADDRESS 503 Elk Street Buffalo, NY 14210



Starting location of road that extends to power pole locations. Photo is looking east.



Cleaning out drainage swale for install of crossing. Photo is facing northwest.

SITE NAME Elk Solar
SITE ADDRESS 503 Elk Street Buffalo, NY 14210



Installation of demarcation layer in swale.



Installation of culvert pipes in swale. Photo is looking southwest.

SITE NAME Elk Solar
SITE ADDRESS 503 Elk Street Buffalo, NY 14210



Completion of swale with culvert piping. Photo is looking east.



Grading of access roadway beyond culvert crossing. Photo is looking northwest.

SITE NAME Elk Solar
SITE ADDRESS 503 Elk Street Buffalo, NY 14210



Duct bank trench before final grade. Photo is looking south.



Duct bank installation before final grade. Photo is looking south.

SITE NAME Elk Solar
SITE ADDRESS 503 Elk Street Buffalo, NY 14210



Power pole install. Typical. Photo is looking northeast.



Power pole install. Typical. Materials from hole staged on poly for disposal.



Install of power poles. Photo is looking north.



Install of power poles. Excavation for final two poles. Photo is looking southwest.



Install of power poles. Setting sleeve for National Grid poles.



Install of power poles. Typical sleeve for National Grid poles.
Photo is looking southeast.



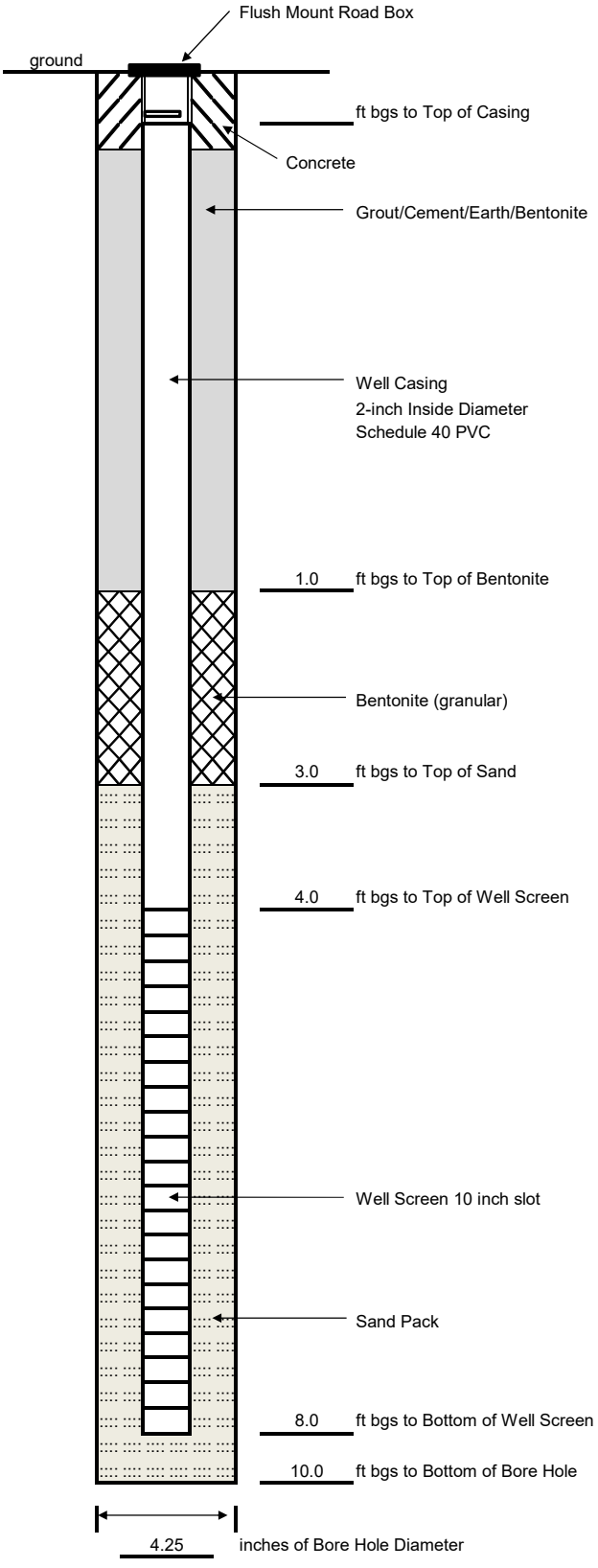
Excavated materials from utility poles staged on and covered with poly for disposal. Photo looking west.

APPENDIX 10

Well Construction Logs

WELL CONSTRUCTION LOG

Well No.: MW-OU2-1



Project: ExxonMobil Oil Corporation - Former Buffalo Terminal - OU-2 East

Address: 503, 555, and 625 Elk Street

Town/City: Buffalo **State:** New York

Project No. 2251277 **County:** Erie

Installation Date(s): 5-Aug-19

Drilling Method: Hollow-stem auger

Drilling Contractor: _____ **Driller:** _____

Drill Rig: _____

Drilling Fluid: _____

Datum: Ground surface **Elevation:** 586.2 ft

Top of Well Casing Elevation = 585.89'

Well Development Information

Static Water Level: _____ **feet from top of casing/ground/other**

Fluid Lost During Drilling: _____ **gallons**

Water Removed During Development: _____ **gallons**

Date(s) of Development: _____

Purging Method: _____ **Sampling Method:** _____

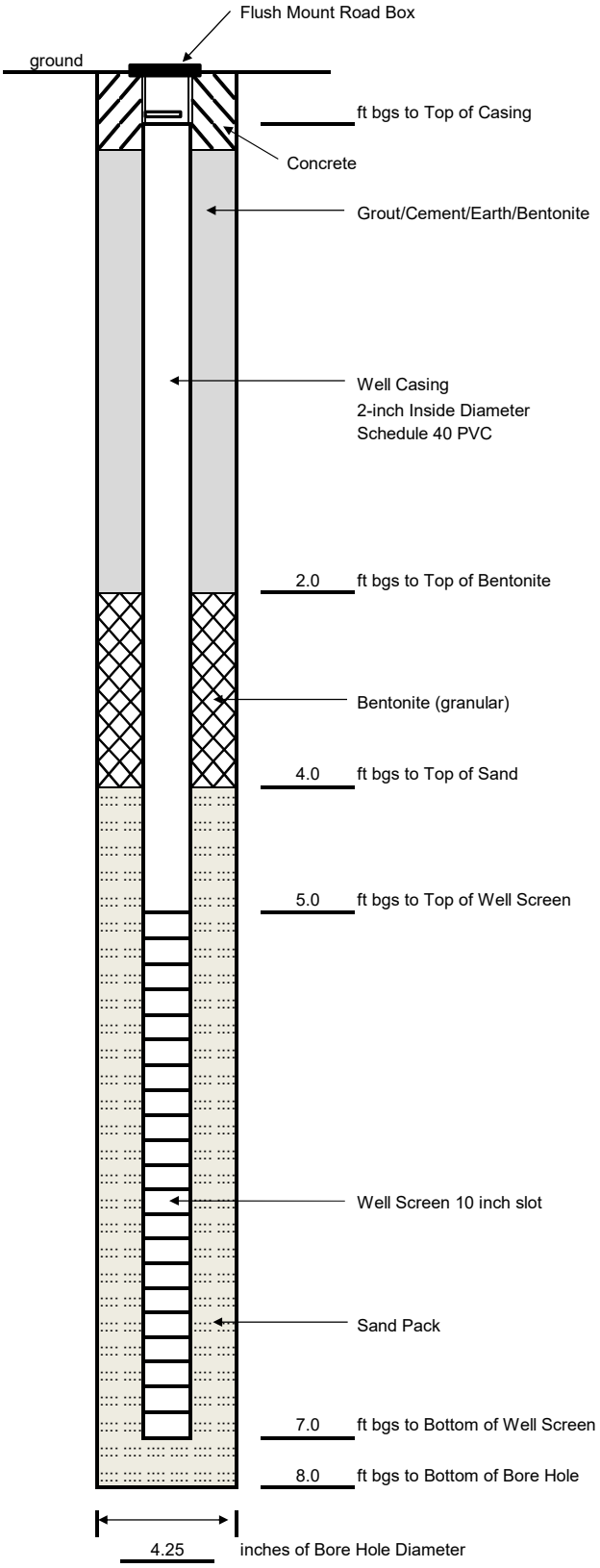
Well Cover Size/Tools Needed to Open: _____

Notes: ft = feet, bgs = below the ground surface

Prepared By: _____

WELL CONSTRUCTION LOG

Well No.: MW-OU2-2



Project: ExxonMobil Oil Corporation - Former Buffalo Terminal - OU-2 East

Address: 503, 555, and 625 Elk Street

Town/City: Buffalo **State:** New York

Project No. 2251277 **County:** Erie

Installation Date(s): 5-Aug-19

Drilling Method: Hollow-stem auger

Drilling Contractor: _____ **Driller:** _____

Drill Rig: _____

Drilling Fluid: _____

Datum: Ground surface **Elevation:** ~~584.5~~ 586.60' ft

Top of Well Casing Elevation = 585.87'

Well Development Information

Static Water Level: _____ **feet from top of casing/ground/other**

Fluid Lost During Drilling: _____ **gallons**

Water Removed During Development: _____ **gallons**

Date(s) of Development: _____

Purging Method: _____ **Sampling Method:** _____

Well Cover Size/Tools Needed to Open: _____

Notes: ft = feet, bgs = below the ground surface

Prepared By: _____