



January 31, 2022

Ms. Megan Kuczka
Environmental Program Specialist, Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

RE: ExxonMobil Former Buffalo Terminal Operable Units 2 East and 3 – 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 BQ Energy Development, LLC (BQ Energy), 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). 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-2E. 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-2E, in the vicinity of the existing Powerhouse Building, also depicted on the attached design drawings.

Project Description

BQ Energy 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 BQ Energy. Ongoing compliance with the Site Management Plans (SMPs) for OU-3 and OU-2E 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-2E. The existing asphalt access road servicing the Groundwater Treatment Facility (GWTF) will support construction and fire access to the PV System equipment pad to be located proximate the GWTF 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 GWTF 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 GWTF 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 five 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-2E to the extent practical.

Intrusive activities into the stabilized, mixed soils of OU-2E will be limited to the installation of five 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 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 late Spring of 2022. 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-2E. 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 EWP

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-2E 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.

Health & Safety Plan

A copy of the Contractor's Health & Safety Plan will be submitted to NYSDEC prior to the commencement of solar facility construction.

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.

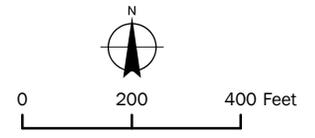
Respectfully submitted,

LaBella Associates

Andrew Janik, PG

Project Manager

cc: Eugene Melnyk, PE (NYSDEC)
Alicia Scott (BQ Energy)
Paul Neureuter (ESCP)
Rob Napieralski (LaBella)



Legend

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

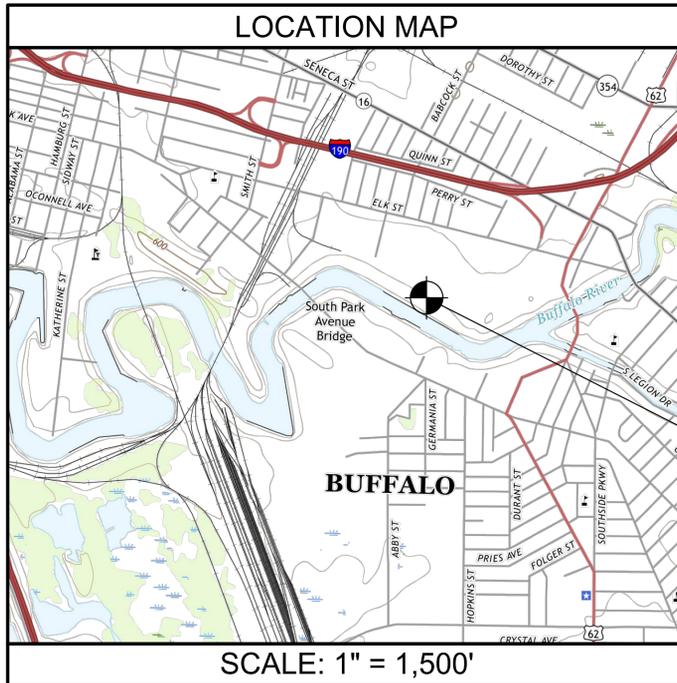
Sources: Bing 2020; Erie County 2020; LaBella 2021.

**BQ Energy
Elk Street Solar
Development Project
Figure 1**

ELK STREET SOLAR DEVELOPMENT PROJECT

SITE ADDRESS: 503 ELK STREET, BUFFALO, NY 14210

TAX ID#: 123.13-1-2.111



SITE LOCATION

SCALE: 1" = 1,500'

PREPARED FOR:

BQ ENERGY DEVELOPMENT, LLC.

400 MARKET STREET INDUSTRIAL PARK, SUITE 32
WAPPINGERS FALLS, NY 12590



ENGINEER:



CRAWFORD & ASSOCIATES

ENGINEERING & LAND SURVEYING, PC

4411 Route 9, Suite 200, Hudson New York 12534 tel: (518) 828-2700
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C&A #: 5204.17

DATE: NOVEMBER 11, 2022

REVISED: JANUARY 28, 2022

ISSUED FOR NYSDEC CHANGE OF USE NOTIFICATION



DRAWINGS:

T-0.0 TITLE SHEET
T-0.1 CONSTRUCTION NOTES SHEET 1
T-0.2 CONSTRUCTION NOTES SHEET 2

C-1.0 SITE PLAN EXISTING CONDITIONS
C-1.1 SITE PLAN PROPOSED OVERALL LAYOUT
C-1.2 TEMPORARY EROSION & SEDIMENT CONTROL PLAN
C-1.3 PROPOSED FENCE PLAN

E-1.0 ELECTRICAL PLAN SECTION 1
E-1.1 ELECTRICAL PLAN SECTION 2
E-1.2 ELECTRICAL PLAN SECTION 3
E-1.3 ELECTRICAL PLAN SECTION 4
E-1.4 UTILITY POLE LAYOUT PLAN

C-5.0 CIVIL DETAILS
C-5.1 BALLASTED FENCE DETAILS

E-5.0 ELECTRICAL DETAILS SHEET 1
E-5.1 ELECTRICAL DETAILS SHEET 2
E-5.2 ELECTRICAL DETAILS SHEET 3
E-5.3 ELECTRICAL DETAILS SHEET 4
E-6.0 ELECTRICAL SCHEDULES & DIAGRAMS

STAKEHOLDERS:
 DEVELOPER: BQ ENERGY DEVELOPMENT, LLC
 SURVEYOR: AMEC E&E P.C.
 DESIGNER: CRAWFORD & ASSOCIATES ENGINEERING, P.C.
 PERMIT ENGINEER: LABELLA ASSOCIATES, P.C.
 INTERCONNECTION DESIGN: JEM ENGINEERING SERVICES, LLC
 SITE OWNER: THE KROG GROUP
 POWER BUYER: COMMUNITY DISTRIBUTED GENERATION
 UTILITY: NATIONAL GRID
 PROJECT OWNER: ELK STREET SOLAR, LLC.

BROWNFIELD NOTES

1. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO BQ ENERGY A SITE-SPECIFIC HEALTH AND SAFETY PLAN AT LEAST TWO WEEKS PRIOR TO START OF CONSTRUCTION.
2. ACCESS TO EXISTING EXTRACTION WELLS MUST BE MAINTAINED ON SITE. NO STRUCTURES SHALL BE INSTALLED WITHIN A TEN (10) FOOT CLEARANCE FROM EXTRACTION WELLS.
3. 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 BQ ENERGY 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 BQ ENERGY OR THE CONTRACTOR(S) SHALL COMMUNICATE DIRECTLY WITH NYSDEC WITHOUT ADVANCE WRITTEN AUTHORIZATION FROM ESCP.
4. 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 GAP AREA.
5. 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.
6. DO NOT USE STEEL PINS, GRADE STAKES, OR OTHER MARKING DEVICES THAT COULD PUNCTURE THE GSL LINER.
7. 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.
8. 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 ACL 306R GUIDE TO COLD WEATHER CONCRETING, OR OTHER EQUIVALENT INDUSTRIAL STANDARD. THE PLAN SHALL BE SUBMITTED TO BQ ENERGY 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 ENGINEER 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 TRENCH LAYOUT, STRING CONFIGURATIONS, OR OTHER CHANGES FROM THE ORIGINAL DESIGN.

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 (RRR).
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 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 OWNER.
13. CONDUITS SHALL BE ORIENTED TO PREVENT WATER ENTRY INTO ENCLOSURES WHERE THE CONDUITS ARE ABOVE THE ENTRY TO THE ENCLOSURE.
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 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 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 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 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 AN 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 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 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 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 PERMANENT MARKING PAINT, AFTER TORQUING.
31. SPLICES/CONNECTORS SHALL BE INSULATED AND WILL REQUIRE 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 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 SECTION 690-17, UNLESS OTHERWISE NOTED.
4. THE 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 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 OWNER.
5. ANY ALTERATIONS TO INVERTERS MUST BE APPROVED BY THE MANUFACTURER TO MAINTAIN ITS UL LISTING AND WARRANTY.

ISSUED FOR NYSDEC
 CHANGE OF USE
 NOTIFICATION



1	REVISED GSL NOTE	1/28/22	TSP
REV #	DESCRIPTION	DATE	BY

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

CONSTRUCTION NOTES
 SHEET 1

BQ ENERGY DEVELOPMENT, LLC
 PROJECT DEVELOPER
 400 Market Street Industrial Park, Suite 32
 Wappingers Falls, NY 12590

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

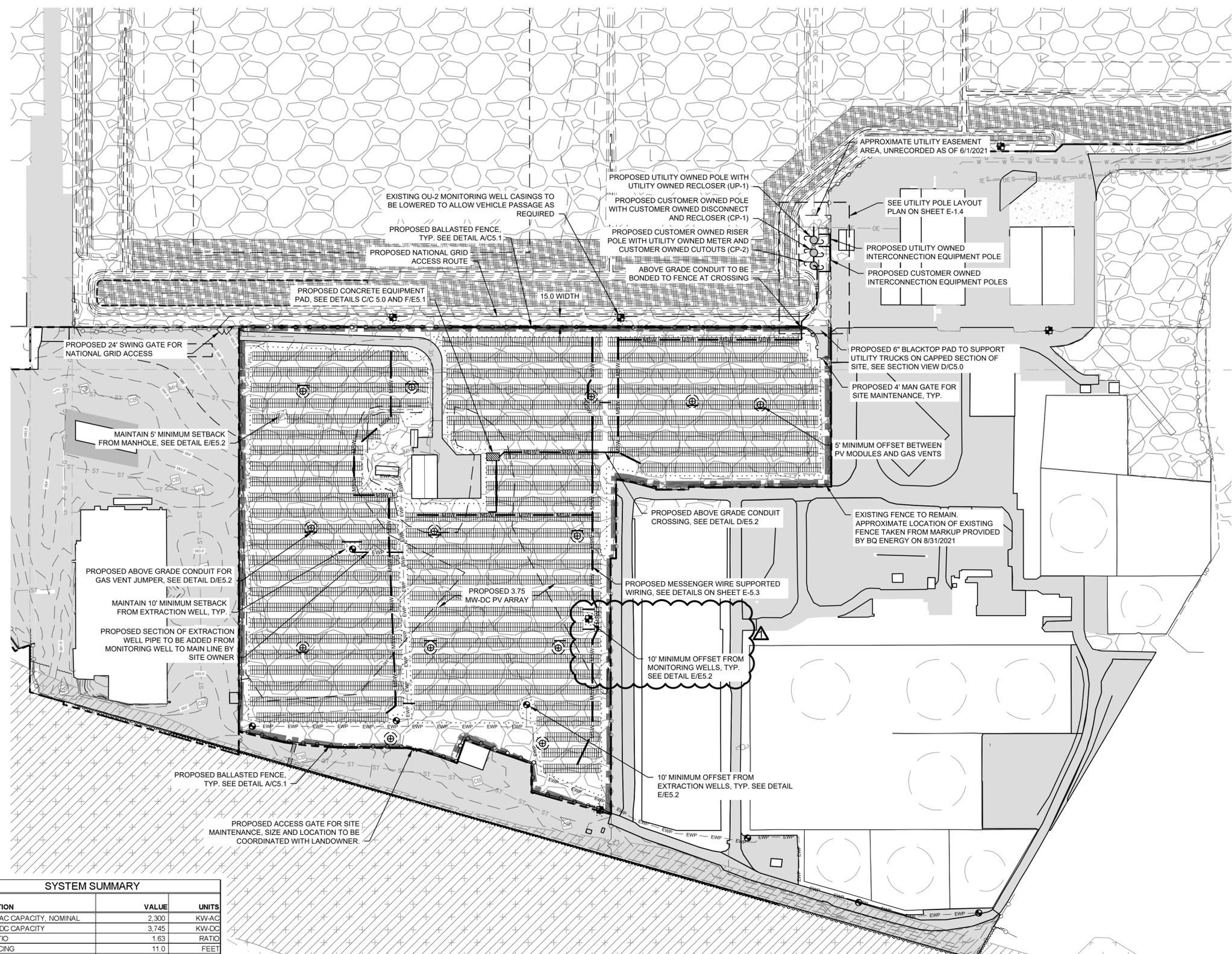
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.	DATE 11/11/2021	DRAWN BY: TSP DESIGNED BY: TSP CHECKED BY: TSP APPROVED BY: -	SCALE AS SHOWN	C&A JOB# 5204.17	DRAWING: T-0.1
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DRAWING NOTES:

- 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.
- 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.
- PV MODULE LOCATIONS ARE APPROXIMATE. REFER TO RACKING MANUFACTURER DRAWINGS FOR EXACT DIMENSIONS.

LEGEND

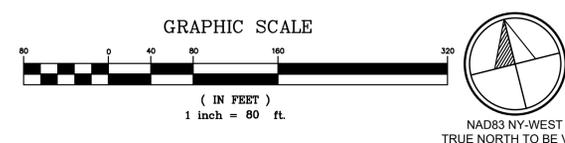
- 586.5 --- EXISTING CONTOUR 5' INTERVAL
- 585 --- EXISTING CONTOUR 5' INTERVAL
- --- EXISTING LEASE LINE
- --- EXISTING/PROPOSED ROAD EDGE
- --- EXISTING/PROPOSED FENCE
- --- EXISTING STORMWATER LINE
- --- EXISTING GAS LINE
- --- EXISTING WATER LINE
- --- EXISTING FIRE WATER LINE
- --- EXISTING SEWER 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/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 MODULE SETBACK
- --- PROPOSED MESSENGER WIRE SUPPORTED WIRING
- --- PROPOSED ABOVE GRADE CONDUIT
- --- PROPOSED CONCRETE EQUIPMENT PAD



SYSTEM SUMMARY		
DESCRIPTION	VALUE	UNITS
MAXIMUM AC CAPACITY, NOMINAL	2,300	KW-AC
MAXIMUM DC CAPACITY	3,745	KW-DC
DC-AC RATIO	1.63	RATIO
ROW SPACING	11.0	FEET
GROUND COVER RATIO	0.58	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		EACH
INVERTER #1-#9	18	EACH
INVERTER #10-#17	17	EACH
INVERTER #18	18	EACH
INVERTER #19 ¹	7	EACH
MODULE: HANWHA Q PEAK DUO L-G8 2 430W		
MODULE POWER RATING	430	WATTS-DC
TOTAL NUMBER OF MODULES	8,710	EACH
MODULES PER RACK, VERTICALLY	2	PORTRAIT
MODULES PER STRING	26-27	EACH
MAX DC SYSTEM VOLTAGE	1,500	VOLTS
NUMBER OF STRINGS	323	EACH
TILT ANGLE	20	DEGREES
AZIMUTH ANGLE	15	DEGREES

¹ INVERTER #19 TO BE DERATED BY MANUFACTURER TO A NOMINAL OUTPUT POWER OF 50KW-AC

PROPOSED OVERALL LAYOUT PLAN
SCALE: 1" = 80'



ISSUED FOR NYSDEC
CHANGE OF USE
NOTIFICATION



1	ADDED MONITORING WELL SETBACK AND GSL NOTES	1/28/22	TSP
REV #	DESCRIPTION	DATE	BY

**ELK STREET
SOLAR DEVELOPMENT PROJECT**

CITY OF BUFFALO ERIE COUNTY, NY

**SITE PLAN - PROPOSED
OVERALL LAYOUT**

BQ ENERGY DEVELOPMENT, LLC
PROJECT DEVELOPER
400 Market Street Industrial Park, Suite 32
Wappingers Falls, NY 12590

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

DATE	11/11/2021	DRAWN BY:	TSP, C/S, TD	DESIGNED BY:	TSP	C&A JOB #	5204.17	DRAWING:	C-1.1
SCALE	AS SHOWN	CHECKED BY:	TSP	APPROVED BY:					

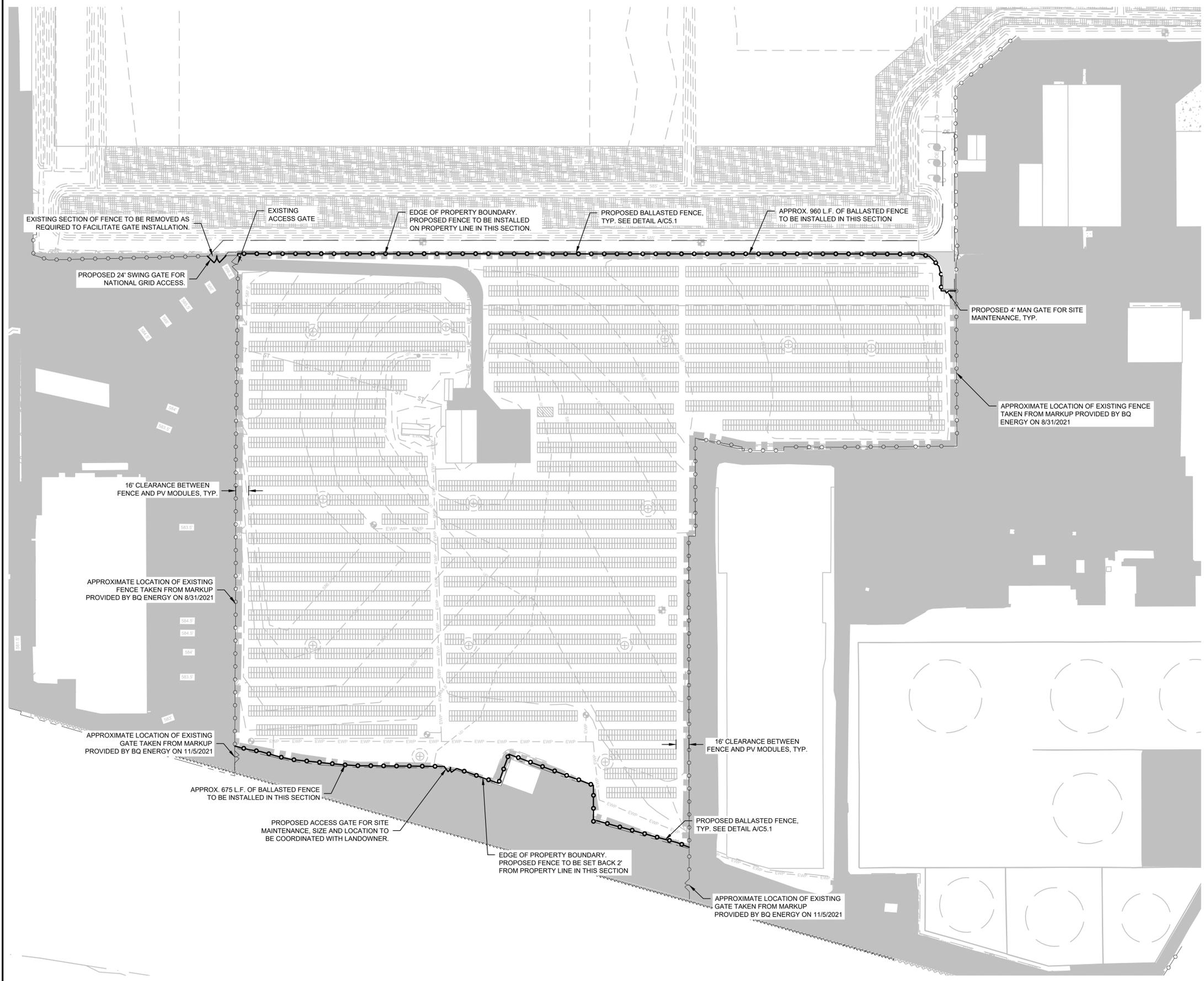
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DRAWING NOTES:

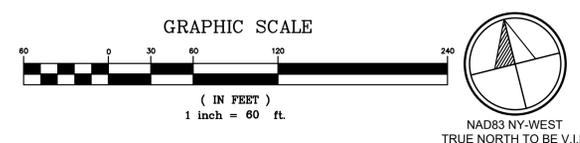
1. BACKGROUND DRAWING INCLUDING PROPERTY BOUNDARIES, EXISTING SITE FEATURES, TOPOGRAPHY AND FEMA 1% ANNUAL CHANCE FLOOD ZONE FROM REMEDIATION DESIGN CAD FILES BY AMEC E&E P.C., DATED DECEMBER 2019, PROVIDED BY BQ ENERGY ON FEBRUARY 8, 2021.
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3. PV MODULE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

LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING/PROPOSED FENCE
- EXISTING/PROPOSED ACCESS GATE
- PROPOSED NATIONAL GRID ACCESS AREA



PROPOSED FENCE PLAN
SCALE: 1"= 60'



ISSUED FOR NYSDEC
CHANGE OF USE
NOTIFICATION



REV #	DESCRIPTION	DATE	BY
ELK STREET SOLAR DEVELOPMENT PROJECT			
CITY OF BUFFALO		ERIE COUNTY, NY	

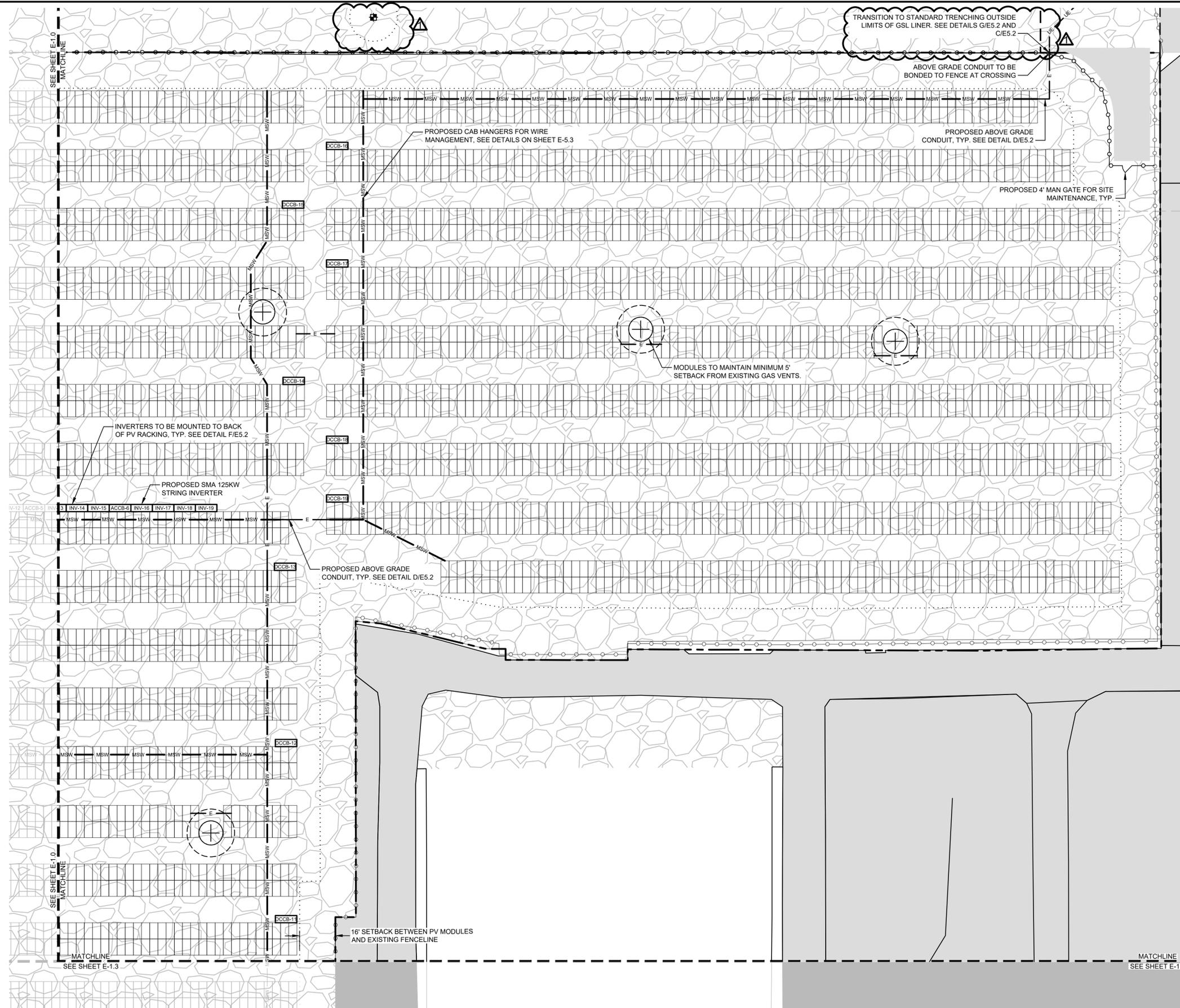
PROPOSED FENCE PLAN

BQ ENERGY DEVELOPMENT, LLC
PROJECT DEVELOPER
409 Market Street Industrial Park, Suite 32
Wappingers Falls, NY 12590

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DATE 11/11/2021	DRAWN BY: TSS, C.S., TD	PROJECT NO. 1614001520417 DR 30001L001520417 SITE.dwg	C&A JOB# 5204.17	DRAWING: C-1.3
SCALE AS SHOWN	DESIGNED BY: TSS	CHECKED BY: TSS	APPROVED BY: -	

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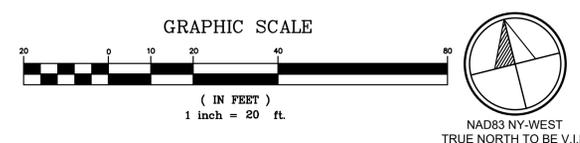


- DRAWING NOTES:**
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 - PV MODULE LOCATIONS ARE APPROXIMATE. REFER TO RACKING MANUFACTURER DRAWINGS FOR EXACT DIMENSIONS.

LEGEND

	EXISTING/PROPOSED FENCE
	EXISTING UNDERGROUND ELECTRIC
	PROPOSED SHALLOW TRENCHING
	EXISTING/PROPOSED EXTRACTION WELL PIPING
	EXISTING UNDERDRAIN
	EXTENT OF GEOMEMBRANE/EXISTING UNDERDRAIN
	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 MESSENGER WIRE SUPPORTED WIRING
	PROPOSED ABOVE GRADE CONDUIT
	PROPOSED DC COMBINER BOX
	PROPOSED AC COMBINER BOX
	PROPOSED STRING INVERTER
	PROPOSED EQUIPMENT PAD

ELECTRICAL PLAN SECTION 2
SCALE: 1"= 20'



1	ADDED MONITORING WELL/REVISED GSL NOTE	1/28/22	TSP
REV #	DESCRIPTION	DATE	BY

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

**ELECTRICAL PLAN
SECTION 2**

ISSUED FOR NYSDEC
CHANGE OF USE
NOTIFICATION

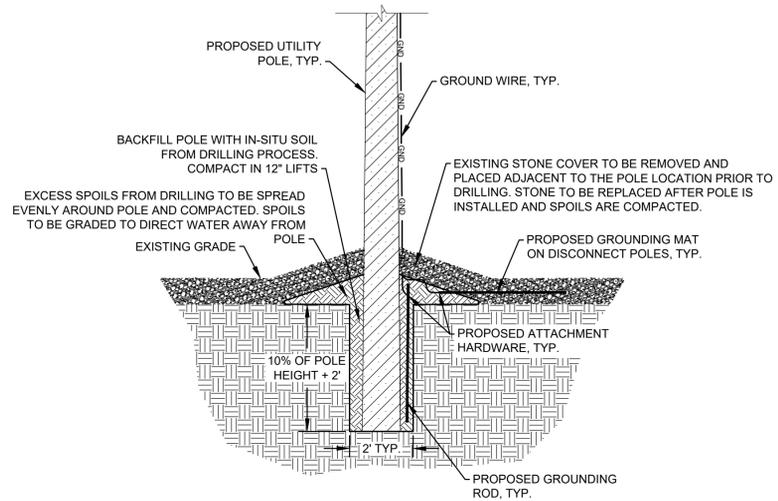
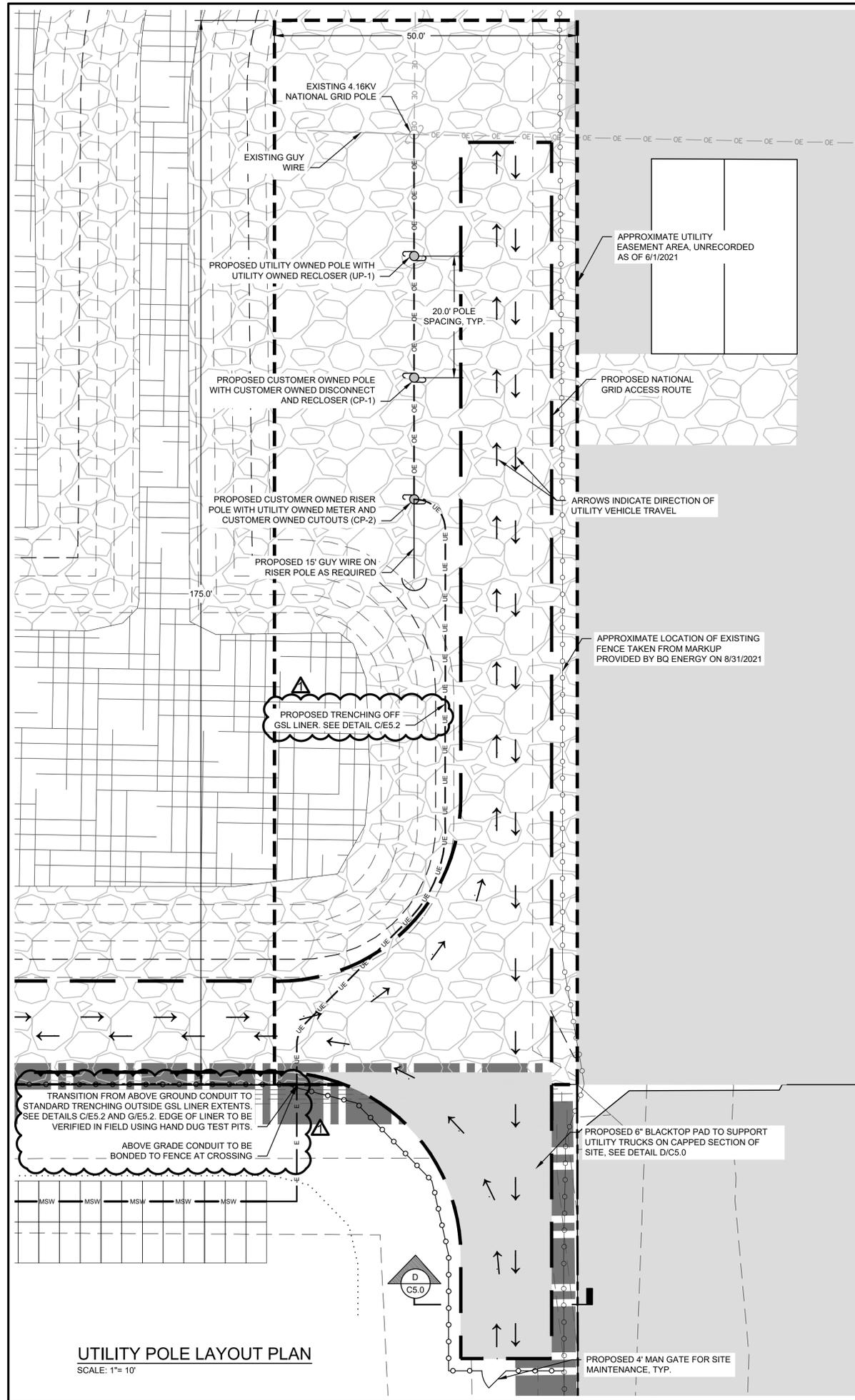
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PROJECT DEVELOPER
409 Market Street Industrial Park, Suite 32
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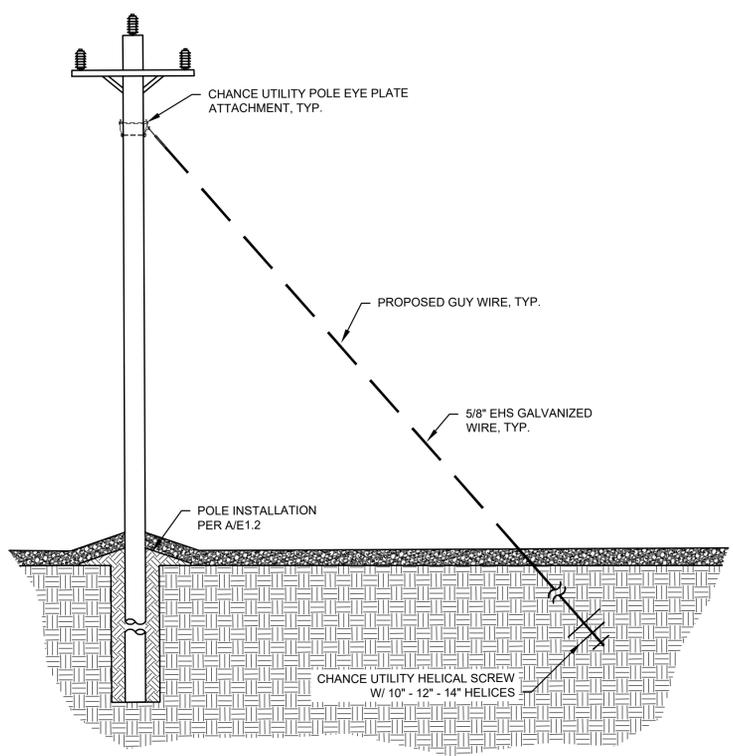


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SCALE	AS SHOWN	DESIGNED BY:	TSP	C&A JOB#
APPROVED BY:	AS SHOWN	CHECKED BY:	TSP	5204.17
		APPROVED BY:	-	DRAWING:
				E-1.1

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A TYPICAL UTILITY POLE INSTALLATION
E-1.4 N.T.S.

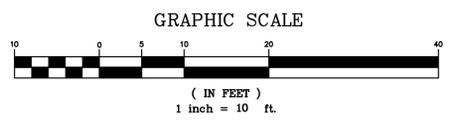


B TYPICAL GUY WIRE INSTALLATION
E1.4 N.T.S.

- DRAWING NOTES:**
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LEGEND

---	586.5	---	EXISTING CONTOUR 5' INTERVAL
---	585	---	EXISTING CONTOUR 5' INTERVAL
○-○-○			EXISTING/PROPOSED FENCE
—○—	OE	—○—	EXISTING/PROPOSED OVERHEAD ELECTRIC
—○—	UE	—○—	EXISTING UNDERGROUND ELECTRIC
—○—	UE	—○—	PROPOSED SHALLOW TRENCHING
—○—	EWP	—○—	EXISTING/PROPOSED EXTRACTION WELL PIPING
—○—	E	—○—	PROPOSED ABOVE GRADE CONDUIT
○		○	EXISTING/PROPOSED UTILITY POLE
○		○	EXISTING/PROPOSED GUY WIRE
⬭		⬭	EXTENT OF GSL LINER/EXISTING UNDERDRAIN
⬭		⬭	EXISTING BUILDING
⬭		⬭	EXISTING/PROPOSED PAVEMENT HATCH
⬭		⬭	EXISTING CRUSHED STONE CAP MATERIAL
⬭		⬭	EXISTING STORMWATER BASIN
⬭		⬭	APPROXIMATE EXISTING UTILITY EASEMENT
⬭		⬭	PROPOSED NATIONAL GRID ACCESS AREA
→		→	PROPOSED DIRECTION OF UTILITY VEHICLE TRAVEL



ISSUED FOR NYSDEC CHANGE OF USE NOTIFICATION



1	REVISED GSL NOTE	1/28/22	TSP
REV #	DESCRIPTION	DATE	BY

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

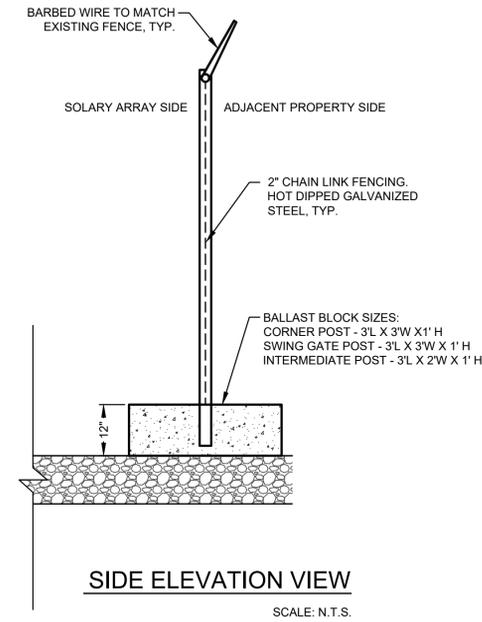
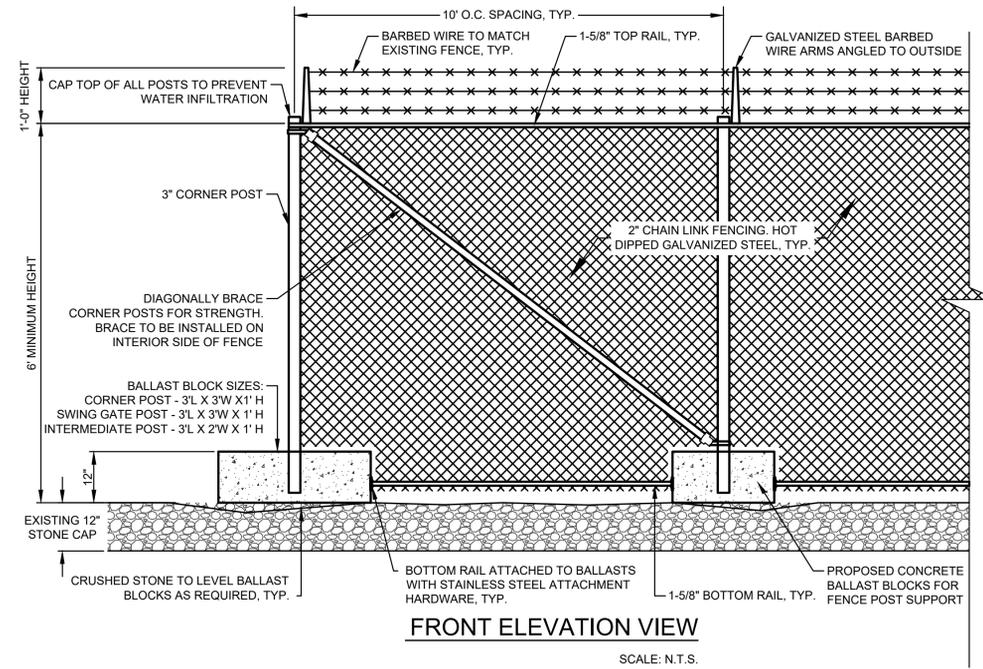
UTILITY POLE LAYOUT PLAN

BQ ENERGY DEVELOPMENT, LLC
PROJECT DEVELOPER
409 Market Street Industrial Park, Suite 32
Wappingers Falls, NY 12590

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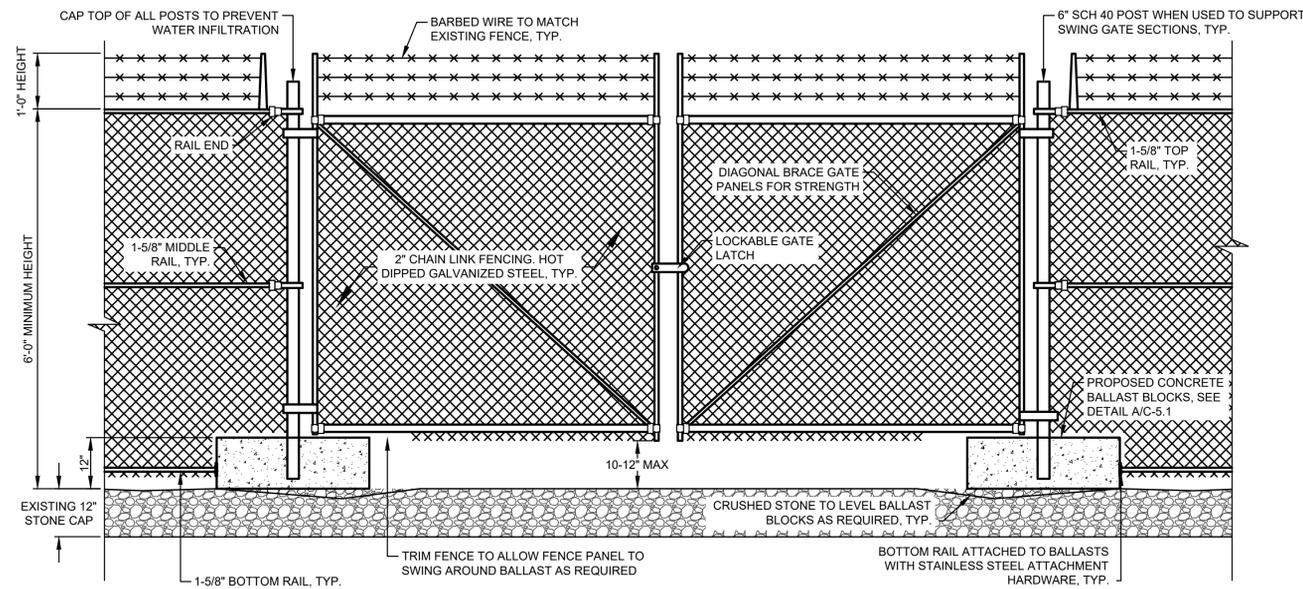
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11/11/2021	TSP	TSP	AS SHOWN	5204.17	E-1.4

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- 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

A 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.

B BALLASTED DOUBLE SWING GATE DETAIL
SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
	ELK STREET SOLAR DEVELOPMENT PROJECT		
	CITY OF BUFFALO		ERIE COUNTY, NY

**BALLASTED
FENCE DETAILS**

ISSUED FOR NYSDEC
CHANGE OF USE
NOTIFICATION



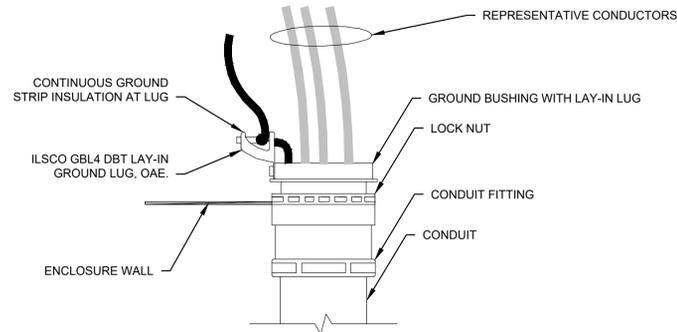
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400 Market Street Industrial Park, Suite 32
Wappingers Falls, NY 12590



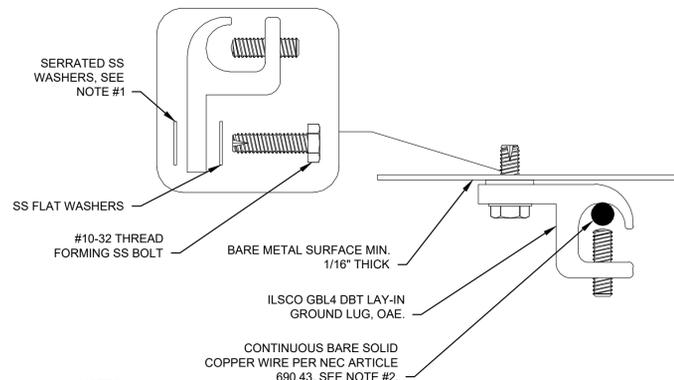
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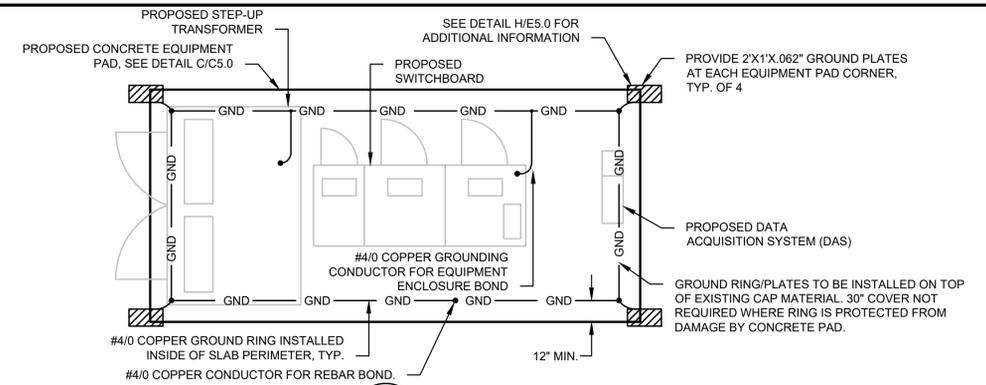
DATE	DRAWN BY:	DESIGNED BY:	C&A JOB#	DRAWING:
11/11/2021	TSB	TSB	5204.17	C-5.1
SCALE AS SHOWN	CHECKED BY: JSC	APPROVED BY:		



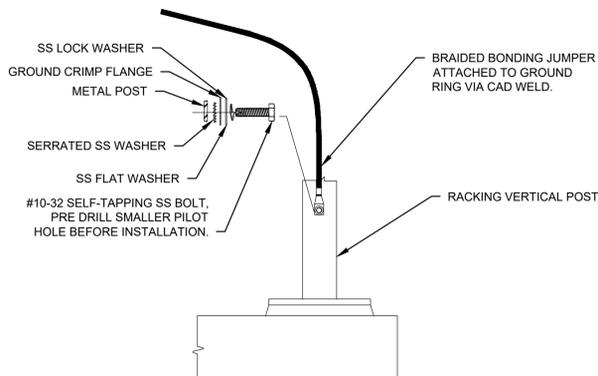
A CONDUIT GROUNDING DETAIL
E5.0 SCALE: N.T.S.



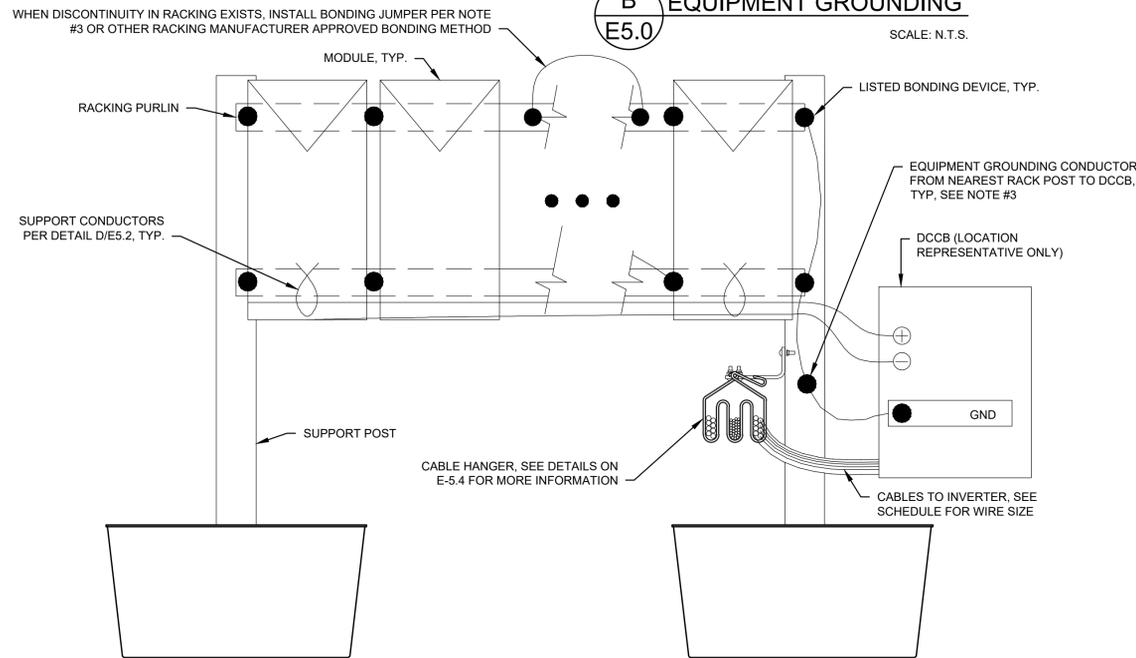
B EQUIPMENT GROUNDING
E5.0 SCALE: N.T.S.



C GROUND RING DETAIL
E5.0 SCALE: N.T.S.

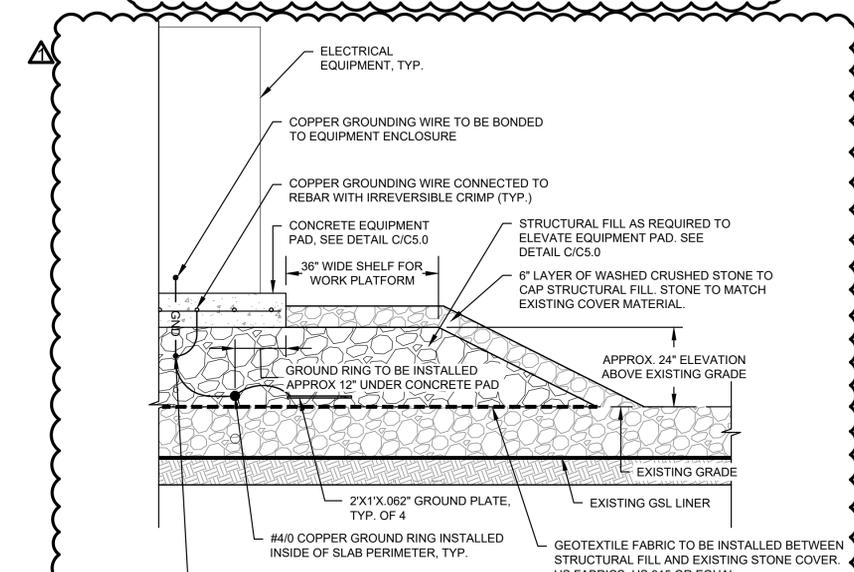


D RACKING GROUNDING
E5.0 SCALE: N.T.S.



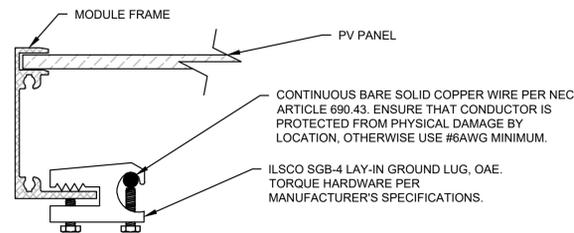
E EQUIPMENT GROUNDING
E5.0 SCALE: N.T.S.

NOTES:
 1. EQUIPMENT LAYOUT IN THIS DETAIL IS REPRESENTATIVE ONLY. REFER TO DETAIL F/E5.1 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.

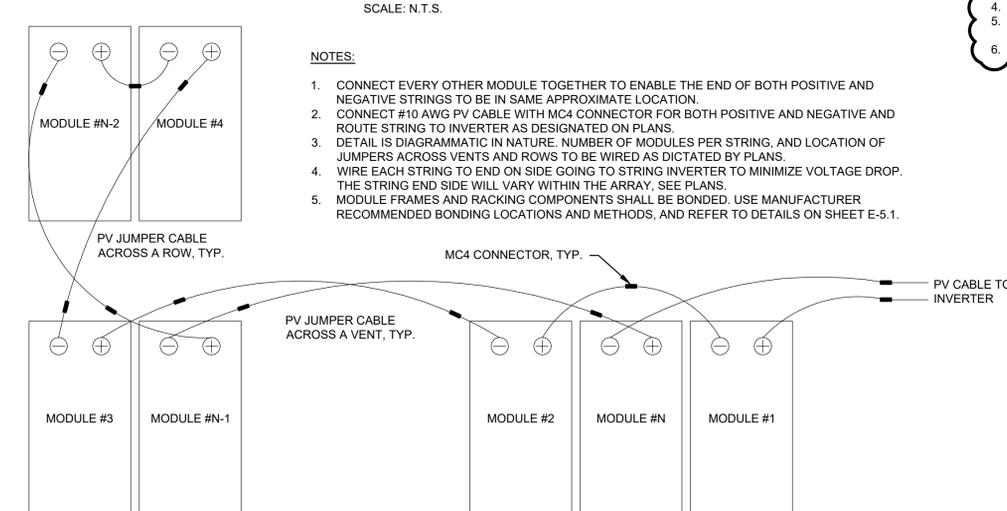


F GROUND MOUNT MODULE GROUNDING
E5.0 SCALE: N.T.S.

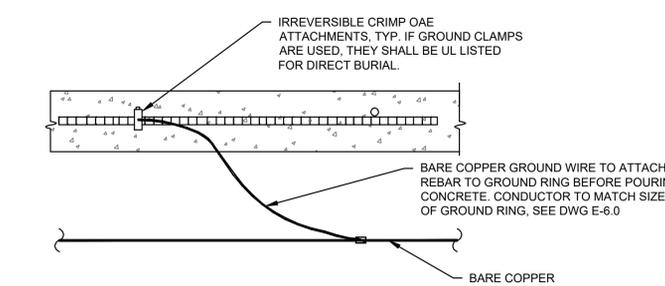
NOTES:
 1. GROUND RING/PLATES TO BE INSTALLED ON TOP OF EXISTING CAP MATERIAL.
 2. GROUNDING RESISTANCE IS TO BE 5 OHMS OR LESS. GROUNDING RESISTANCE TO BE MEASURED AND RECORDED BEFORE CONCRETE EQUIPMENT PAD IS POURED.
 3. IF GROUNDING RESISTANCE VALUES CANNOT BE OBTAINED, INSTALL ADDITIONAL GROUNDING 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.



G GROUND RING-PAD BONDING
E5.0 SCALE: N.T.S.



H STRING WIRING DETAIL, TYP.
E5.0 SCALE: N.T.S.



I GROUND RING- PAD BONDING
E5.0 SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
1	ADDED STONE COVER/REVISED GSL LINER NOTE	1/28/22	TSB

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

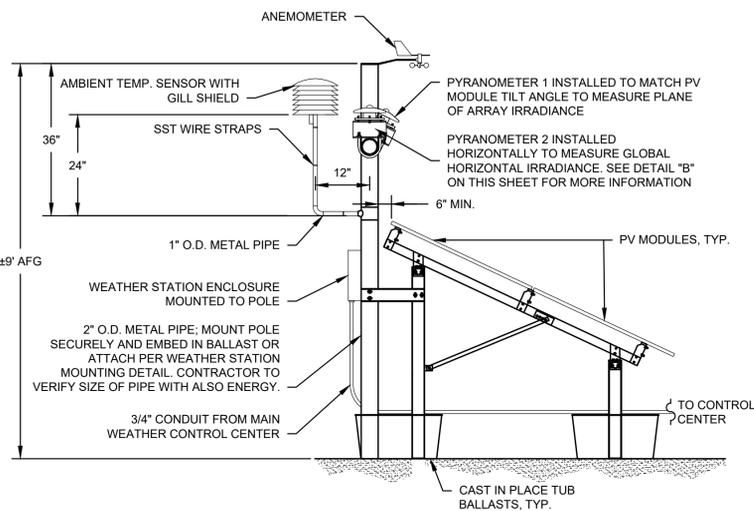
ELECTRICAL DETAILS SHEET 1

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400 Market Street Industrial Park, Suite 32
Wappingers Falls, NY 12590

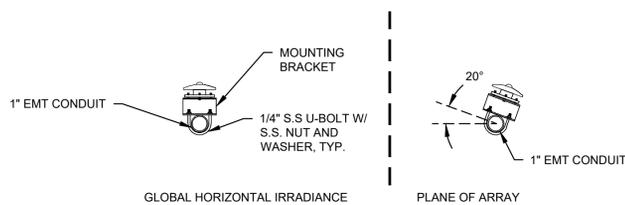
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DATE	DRAWN BY:	SCALE	C&A JOB#	DRAWING
11/11/2021	TSB	AS SHOWN	5204.17	E-5.0

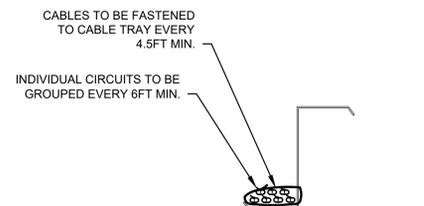
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A TYPICAL WEATHER STATION SECTION VIEW
 E5.1 SCALE: N.T.S.

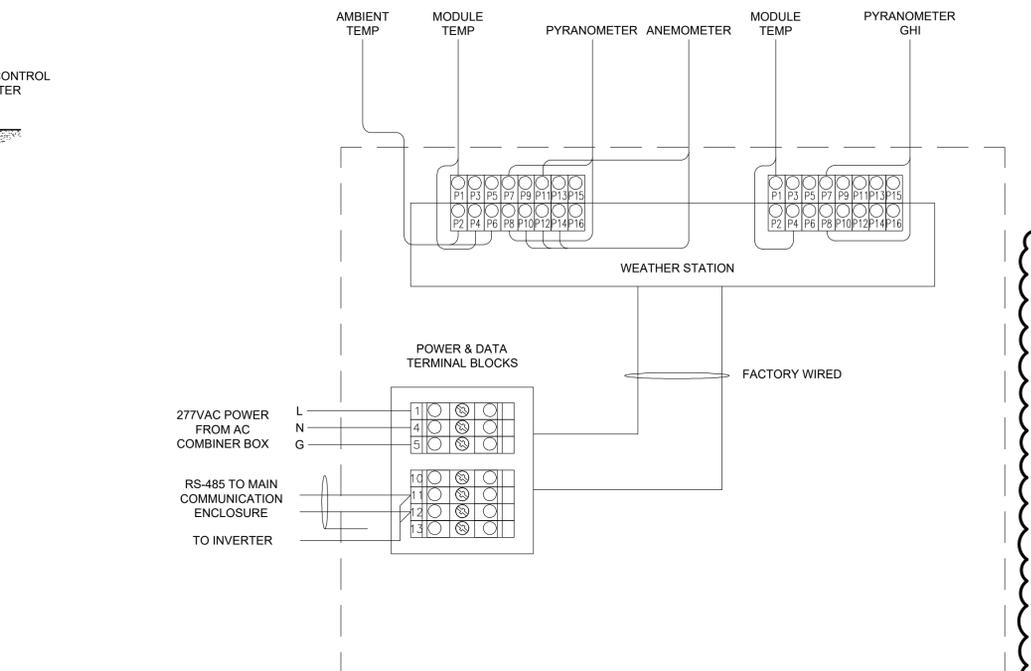


B PYRANOMETER EAST ELEVATION
 E5.1 SCALE: N.T.S.

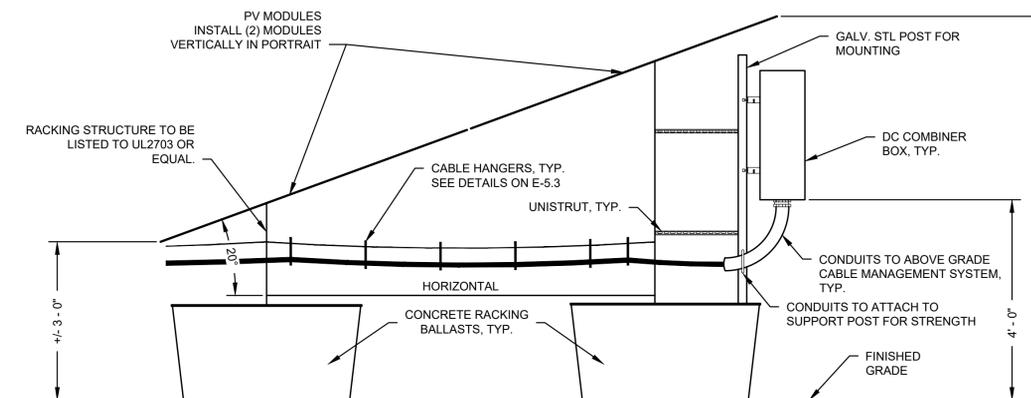


D CABLE TRAY DETAIL
 E5.1 SCALE: N.T.S.

- NOTES:
1. THE CABLE TRAYS ON THE RACKING SYSTEM MAY SUPPORT THE SPECIFIED 1500V PV CABLES. WHERE AC CONDUCTORS RATED LESS THAN 600V 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. NO MORE THAN (17) DC CIRCUITS SHALL BE INSTALLED IN ONE CABLE TRAY.



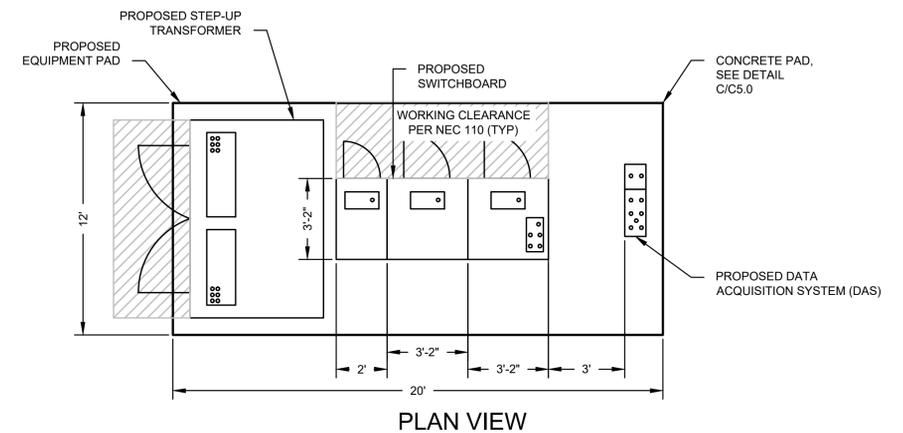
C WEATHER STATION ENCLOSURE
 E5.1 SCALE: N.T.S.



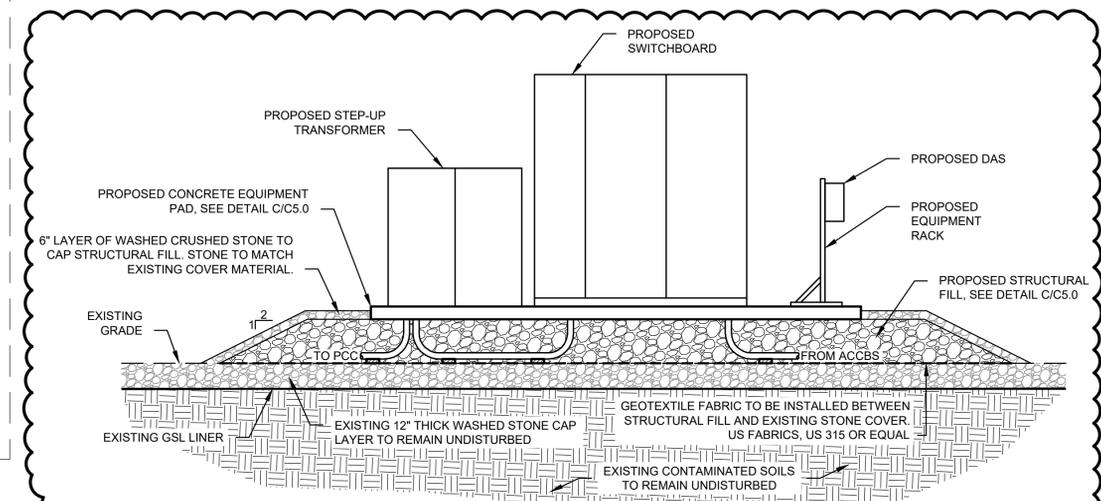
E EQUIPMENT MOUNTING DETAIL
 E5.1 NTS

- 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.

- 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 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.
 5. 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.
 6. 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.
 7. 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.



PLAN VIEW



ELEVATION VIEW

- NOTES:
1. EQUIPMENT LAYOUT IS REPRESENTATIVE AND WILL BE REFINED IN FUTURE DESIGN STAGES PENDING EQUIPMENT SUBMITTALS FROM CONTRACTOR.

F TYPICAL INTERCONNECTION EQUIPMENT PAD DETAIL
 E5.1 SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
1	ADDED STONE COVER/REVISED GSL LINER NOTE	1/28/22	TSB

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

ELECTRICAL DETAILS
 SHEET 2

BQ ENERGY DEVELOPMENT, LLC
 PROJECT DEVELOPER
 400 Market Street Industrial Park, Suite 32
 Wappingers Falls, NY 12590

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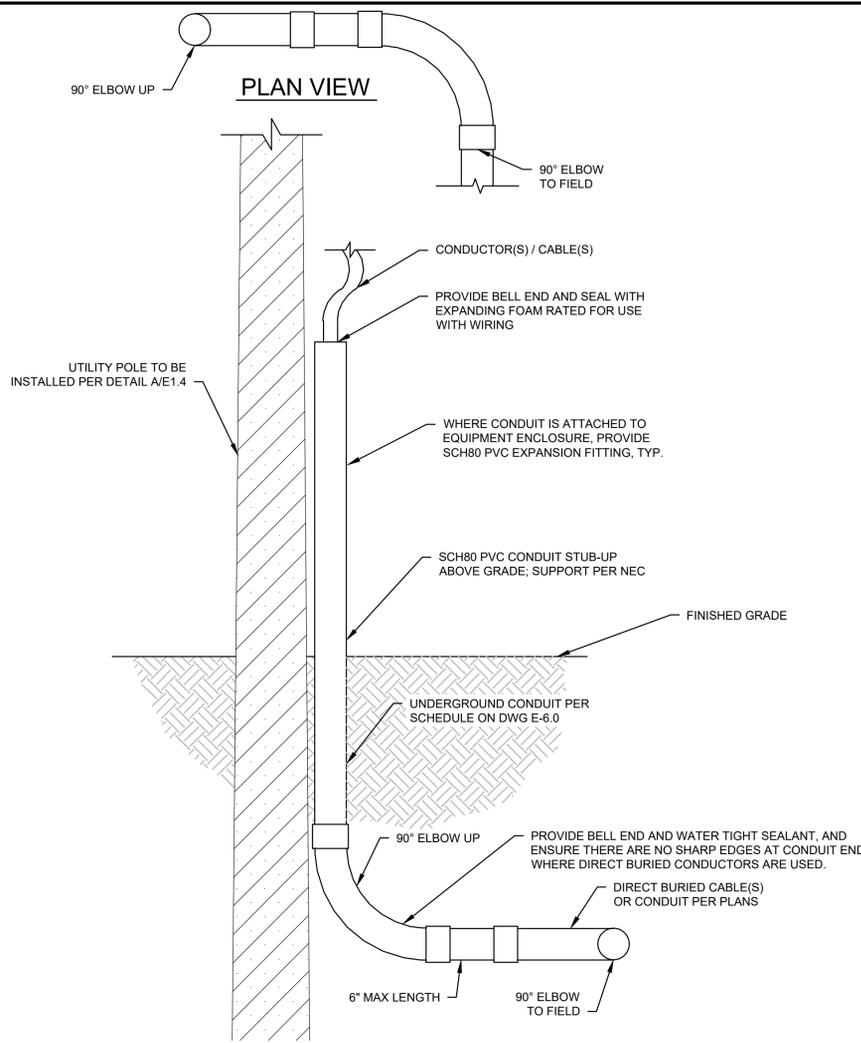
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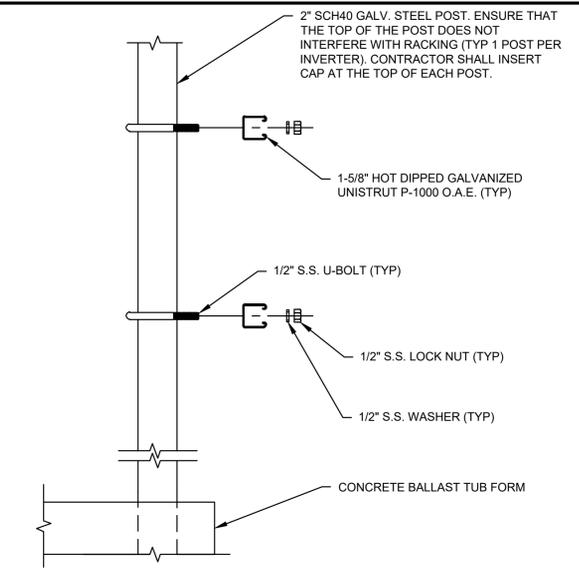
DATE: 11/11/2021
 SCALE: AS SHOWN

DRAWN BY: TSB
 DESIGNED BY: TSB
 CHECKED BY: JSC
 APPROVED BY: -
 C&A JOB#: 5204.17
 DRAWING: E-5.1

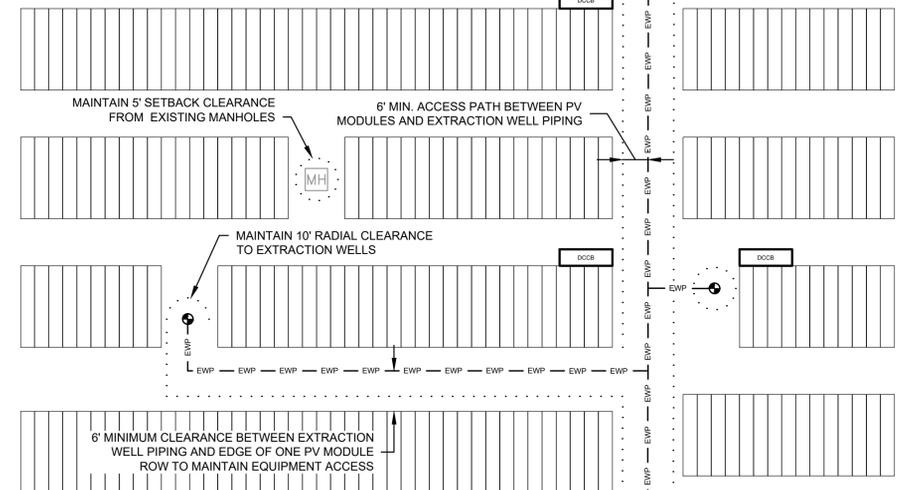
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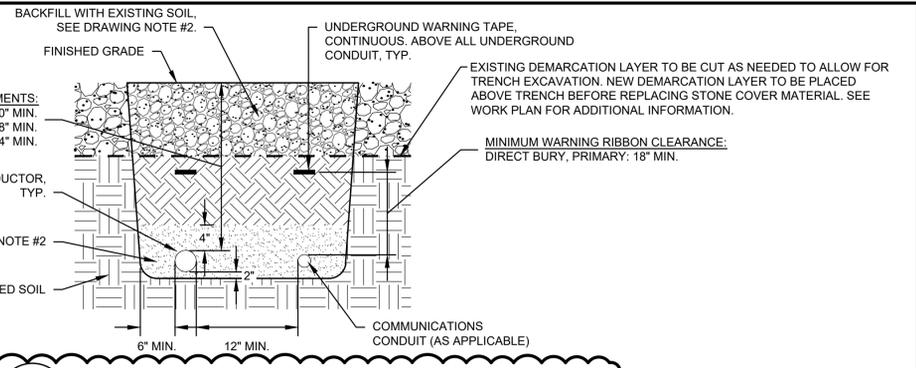
A TYPICAL CONDUIT STUB-UP AND TRANSITION BELOW GRADE
E5.2 AT RISER POLE
SCALE: N.T.S.



B EQUIPMENT MOUNTING
E5.2
NTS



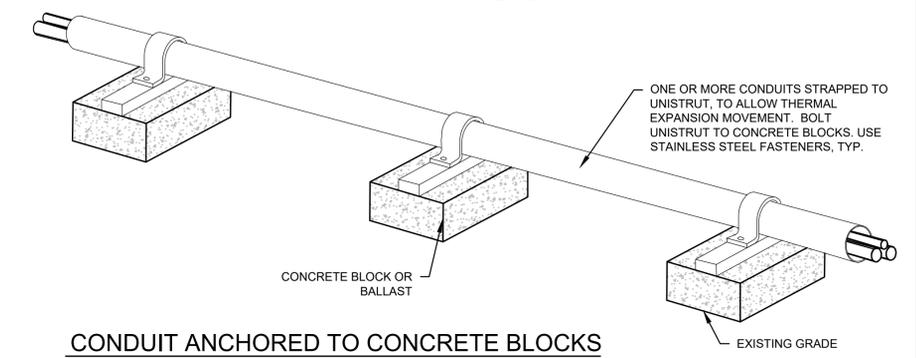
E EXTRACTION SYSTEM OFFSET
E5.2
SCALE: N.T.S.



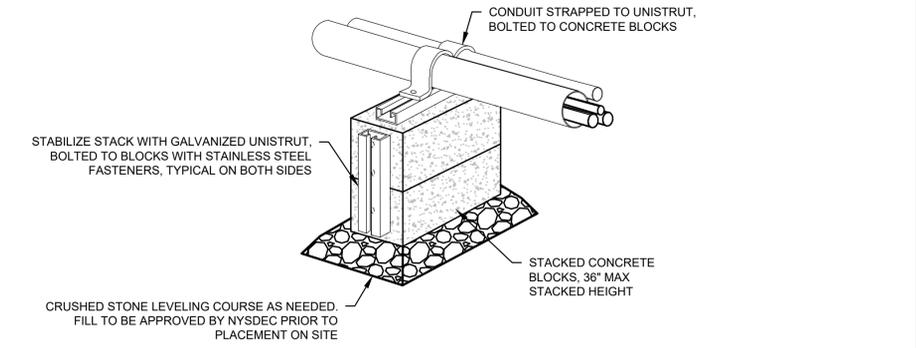
C CONDUIT TRENCH DETAIL OFF EXTENT
E5.2 OF GSL LINER
SCALE: N.T.S.

TRENCHING NOTES:

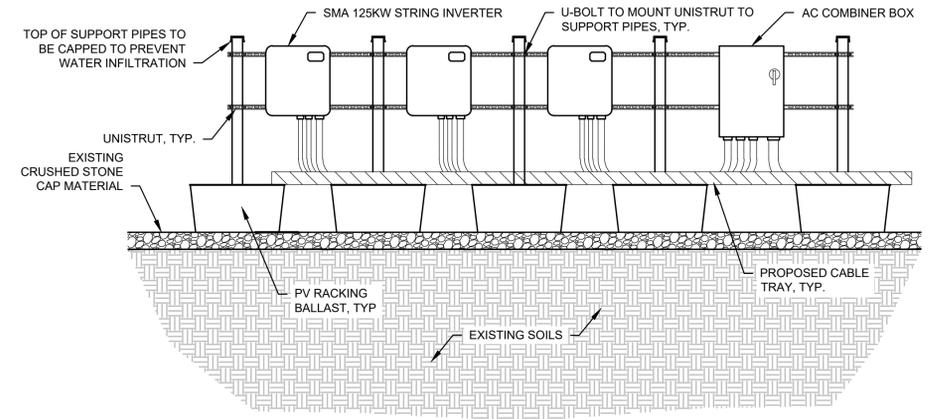
- VEHICLE ACTIVITY AND SURFACE LOADING OVER THE BURIED CONDUIT OR CONDUCTORS SHALL NOT EXCEED THEIR RATED CRUSH TEST CAPACITY.
- BACKFILL MATERIAL SHALL BE SPOILS FROM EXCAVATION, COMPACTED. NATIVE BACKFILL MATERIAL ONLY ACCEPTABLE IF IT CAN PASS THROUGH A 3" SCREEN. SAND BEDDING SHALL BE USED AROUND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



D CONDUIT ANCHORED TO CONCRETE BLOCKS
E5.2
SCALE: N.T.S.

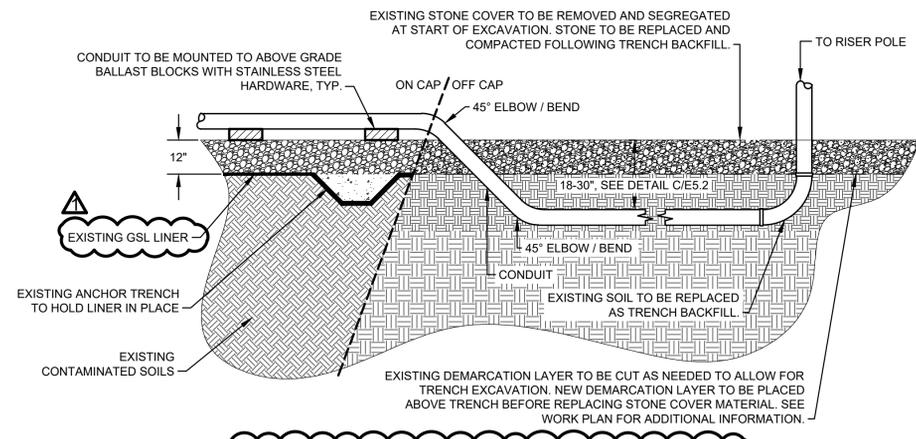


D CONDUIT ANCHORED TO STACKED BLOCKS
E5.2
SCALE: N.T.S.



F INVERTER MOUNTING SYSTEM DETAIL
E5.2
SCALE: N.T.S.

- NOTES:**
- SUPPORT PIPES TO SHARE CONCRETE RACKING BALLASTS WHEN POSSIBLE. ADDITIONAL BALLASTS TO BE ADDED AS REQUIRED.
 - INVERTERS TO BE SPACED 12" MINIMUM FROM BACK OF RACKING POSTS.



G CONDUIT TRENCH AT EDGE OF CAP
E5.2
SCALE: N.T.S.

NOTES:

- NO EXCAVATION SHALL OCCUR ABOVE THE GSL LINER UNLESS SPECIFICALLY NOTED.
- SEE DETAIL C/E-5.2 ON THIS SHEET FOR TRENCHING SPECIFICATIONS.

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NOTIFICATION



REV #	DESCRIPTION	DATE	BY
1	ADDED STONE COVER/REVISED GSL LINER NOTE	1/28/22	TSB

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

ELECTRICAL DETAILS
SHEET 3

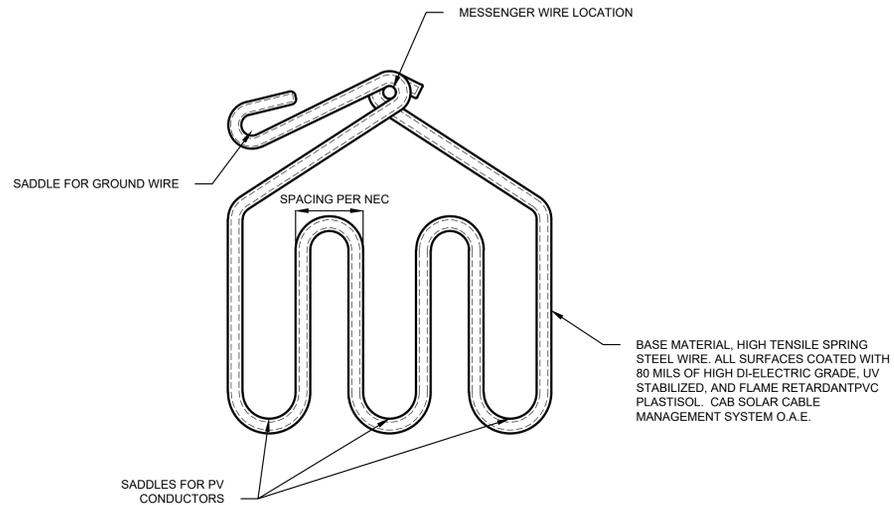
BQ ENERGY DEVELOPMENT, LLC
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Wappingers Falls, NY 12590

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www.crawfordandassociates.com

DATE: 11/11/2021
SCALE: AS SHOWN

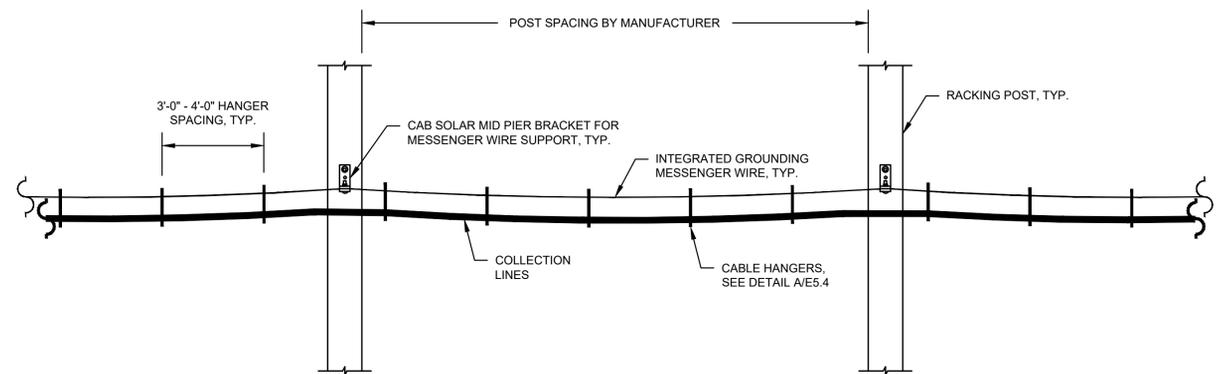
DESIGNED BY: TSB
CHECKED BY: JSC
APPROVED BY: -
C&A JOB#: 5204.17
DRAWING: E-5.2

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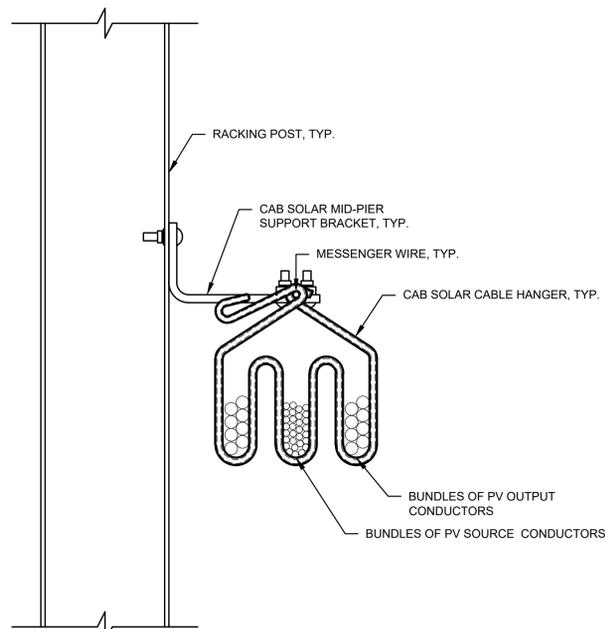
A MSW HANGER, TYP.
E5.3 SCALE: N.T.S.

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



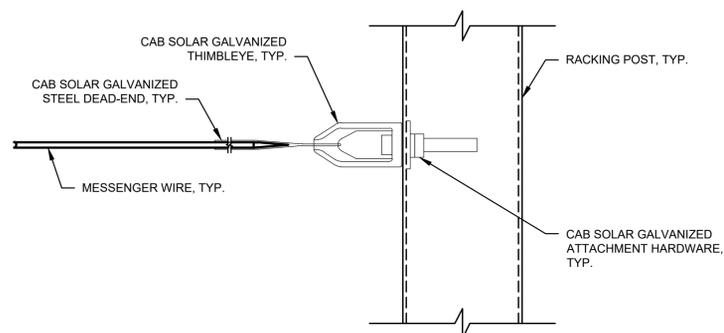
B TYPICAL MESSENGER SUPPORTED WIRING (MSW) DETAIL
E5.3 SCALE: N.T.S.

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.



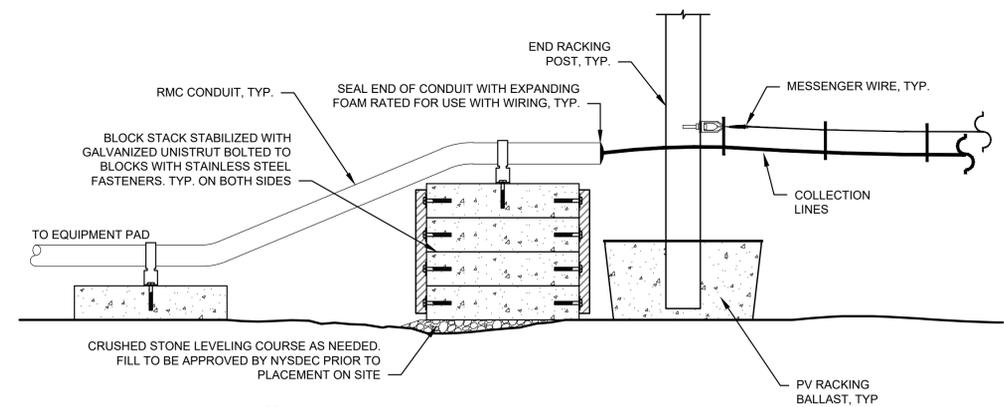
C MSW HANGER CROSS SECTION DETAIL
E5.3 SCALE: N.T.S.

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 MSW END PIER ATTACHEMENT DETAIL
E5.3 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 CABLE TRAY TO CONDUIT TRANSITION
E5.3 SCALE: N.T.S.

REV #	DESCRIPTION	DATE	BY
ELK STREET SOLAR DEVELOPMENT PROJECT			
CITY OF BUFFALO		ERIE COUNTY, NY	

ELECTRICAL DETAILS
SHEET 4

BQ ENERGY DEVELOPMENT, LLC
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SCALE	CHECKED BY:	APPROVED BY:		
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