Appendix 5-1

# Facility Design Drawings

AES Tabletick 22X34 v210319

# BROOKSIDE SOLAR PROJECT

## TOWNS OF BURKE & CHATEAUGAY
## FRANKLIN COUNTY, NEW YORK
## LAT: N044° 55' 22.76"
## LONG: W074° 07' 24.43"

**PREPARED FOR:**
AES CLEAN ENERGY
4300 WILSON BLVD.
ARLINGTON, VA 22203

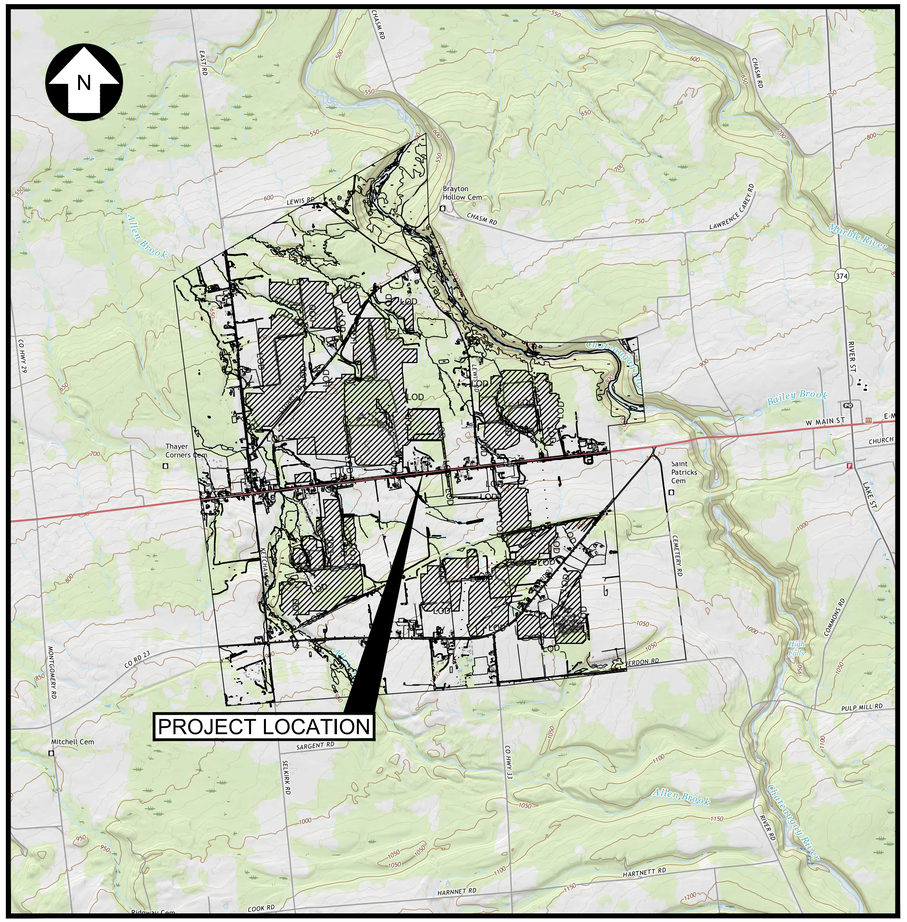
**CIVIL ENGINEER:**
TRC ENGINEERS, LLC
249 WESTERN AVE.
AUGUSTA, ME 04330

**ELECTRICAL ENGINEER:**
TRC ENGINEERS, LLC
249 WESTERN AVE.
AUGUSTA, ME 04330

**SURVEY PROVIDED BY:**
THEW ASSOCIATES PLLC
6431 US HIGHWAY 11
CANTON, NY 13617

**GEOTECHNICAL ENGINEER:**
ANS GEO, INC.
4405 S LINTON AVE
SOUTH PLAINFIELD, NJ 07080

**ENVIRONMENTAL SERVICES:**
TRC ENVIRONMENTAL
215 GREENFIELD PARKWAY
SUITE 102
LIVERPOOL, NY 13088




LOCATION MAP
N.T.S.

## GENERAL INDEX:

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|---|---|
| PV-G.00.01 | COVER SHEET |
| PV-G.01.01 | GENERAL NOTES & LEGEND |
| PV-G.02.01 | OVERALL SITE LAYOUT & KEY SHEET |

## CIVIL INDEX:

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| PV-C.00.01 THRU 21 | EXISTING CONDITIONS & CLEARING PLAN |
| PV-C.01.01 THRU 21 | SITE PLAN |
| PV-C.03.01 THRU 03 | EROSION & SEDIMENTATION CONTROL DETAILS |
| PV-C.04.01 THRU 21 | GRADING, DRAINAGE, AND EROSION CONTROL PLAN |
| PV-C.04.22 | SUBSTATION INSET |
| PV-C.05.01 | GRADING AND DRAINAGE DETAILS |
| PV-C.06.01 | DRIVEWAY AND ACCESS ROAD DETAILS |
| PV-C.07.01 | WATER CROSSING DETAILS |
| PV-C.08.01 THRU 02 | SITE ENTRANCE DETAILS |
| PV-C.08.03 | PV ENTRANCE GATE LIGHTING |
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| PV-C.11.02 THRU 03 | EQUIPMENT PAD DETAILS |
| PV-C.12.01 | TRENCH, BORING AND CROSSING DETAILS |
| PV-C.12.02 | WETLAND CROSSING DETAILS |
| PV-C.12.03 | SYSTEM SECTIONALIZING AND SPLICING DETAILS |

## LANDSCAPE INDEX:

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|---|---|
| PV-C.13.00 | OVERALL LANDSCAPE PLAN |
| PV-C.13.01 THRU 21 | ENLARGED LANDSCAPE PLANS |
| PV-C.14.01 THRU 07 | LANDSCAPE NOTES AND DETAILS |

## POINT OF INTERCONNECTION SUBSTATION INDEX:

| | |
|---|---|
| 422299-0002-001 | GENERAL ARRANGEMENT: OVERALL ELECTRICAL PLAN |
| 422299-0003-001 | ELECTRICAL EQUIPMENT ELEVATIONS: SECTION A-A |
| 422299-0004-001 | ELECTRICAL EQUIPMENT ELEVATIONS: SECTION B-B |
| 422299-0005-001 | ELECTRICAL EQUIPMENT ELEVATIONS: SECTION C-C |
| 422299-0006-001 | GENERAL ARRANGEMENT: LIGHTING PLAN |

## COLLECTION SUBSTATION INDEX:

| | |
|---|---|
| HV-P.01.01 | GENERAL ARRANGEMENT: OVERALL ELECTRICAL PLAN |
| HV-P.02.01 | ELECTRICAL EQUIPMENT ELEVATIONS: SECTIONS A-A |
| HV-P.02.02 | ELECTRICAL EQUIPMENT ELEVATIONS: SECTIONS B-B, C-C, D-D, E-E, F-F, G-G, H-H, J-J |
| HV-P.13.01 | GENERAL ARRANGEMENT: LIGHTING PLAN |
| HV-P.14.01 | GENERAL ARRANGEMENT: CONTROL HOUSE PLAN |
| HV-P.15.01 | GENERAL ARRANGEMENT: CONTROL HOUSE ELEVATIONS SECTIONS A-A, B-B |
| HV-P.15.02 | GENERAL ARRANGEMENT: CONTROL HOUSE ELEVATIONS SECTIONS C-C, D-D |

## TRANSMISSION INDEX:

| | |
|---|---|
| HV-C.09.01 | PRELIMINARY TRANSMISSION INTERCONNECTION PLAN |
| HV-C.09.02 | PRELIMINARY INTERCONNECTION PLAN AND PROFILE |
| HV-C.09.03 THRU 05 | SINGLE CIRCUIT DEADEND ON ARMS STRUCTURE DRAWINGS |
| HV-C.09.06 | DRILLED PIER FOUNDATION DRAWING |

## POINT OF INTERCONNECT:

| | |
|---|---|
| DC CAPACITY: | 130,096.95 kW |
| AC CAPACITY: | 100,000.00 kW |
| DESIGN TEMP: | 31°C |
| MINIMUM TEMP: | -32°C |

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:
BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:
TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
COVER SHEET

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
AS NOTED

SHEET NO: PV-G.00.01
REV: 0

PLOTTED: 1/19/2022 3:18 PM
c:\pw\work\jgerrish\d1535869\l422299\cad\civil\422299-GENERAL-001.dwg
XREFs: d0956600\l422299-BASE-ALTA.dwg, d0956600\l422299-BASE-ALTA SURVEY.dwg

AES Titleblock 22X34 v210319

# GENERAL NOTES:

## SURVEY NOTES:

1. PRELIMINARY SURVEY PROVIDED BY THEW ASSOCIATES PLLC, BASED ON AN INSTRUMENT SURVEY COMPLETED JULY 2020.
2. THIS SURVEY IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD83/2011), PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE) AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE).
4. THE SUBSURFACE UTILITIES SHOWN HEREON ARE OF QUALITY LEVEL "C" AS DEFINED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) IN THE "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". THE SUBSURFACE UTILITIES SHOWN HEREON ARE BASED ON PHYSICAL EVIDENCE LOCATED DURING THE FIELD SURVEY AND EXISTING UTILITY DRAWINGS. THE SURVEYOR FURTHER DOES NOT WARRANT OR CERTIFY THAT THE SUBSURFACE UTILITIES ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THE SUBSURFACE UTILITIES ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE SUBSURFACE UTILITIES.
5. ELEVATIONS AND CONTOURS SHOWN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88-GEOID12B) AND ARE BASED ON PUBLICLY AVAILABLE LIDAR.
6. WETLAND BOUNDARY INFORMATION PROVIDED BY TRC DATED JANUARY 2021.
7. ZONING BOUNDARY INFORMATION OBTAINED FROM THE TOWN OF BURKE. NO ZONING BOUNDARY INFORMATION IS AVAILABLE FOR THE TOWN OF CHATEAUGAY.
8. SOILS INFORMATION WAS OBTAINED FROM USDA-NRCS WEB SOIL SURVEY FOR FRANKLIN COUNTY, NY DATED APRIL 2021.
9. FLOOD ZONE CLASSIFICATION:

   THE PORTION OF THE SITE LOCATED WITHIN THE TOWN OF BURKE LIMITS LIES INSIDE THE ZONE C FLOODPLAIN (AREAS OF MINIMAL FLOODING) AS SHOWN ON THE FOLLOWING MAP:

   3613940010B - DATED FEBRUARY 19, 1986

   THE PORTION OF THE SITE LOCATED WITHIN THE TOWN OF CHATEAUGAY IS UNMAPPED.

## REMOVAL NOTES:

1. TREE REMOVAL SHALL BE IN CONFORMANCE WITH THE TREE REMOVAL PLAN.
2. IN AREAS INDICATED FOR SHADE TREE CLEARING, ONLY TREES OVER THE MAXIMUM HEIGHT INDICATED SHALL BE CUT DOWN. ONLY HAND CUTTING SHALL BE ALLOWED. LEAVE TIMBER IN PLACE UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION PLANS OR ENVIRONMENTAL MONITOR.
3. TREES AND OTHER VEGETATION MAY BE REDUCED TO CHIPS BY THE USE OF CHIPPING MACHINES OR STUMP GRINDER AND USED AS REQUIRED FOR EROSION CONTROL. ALL OTHER CHIPS AND WOOD WASTE RESULTING FROM REMOVAL OPERATIONS SHALL BE DISPOSED OF OFF-SITE AT A FACILITY AND IN A MANNER APPROVED BY THE OWNER.
4. ALL EXISTING DEBRIS, RUBBISH, AND ABANDONED ITEMS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF OFF-SITE IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
5. ALL DEMOLITION WASTE, DEBRIS AND RUBBISH SHALL BE PROPERLY REMOVED FROM THE SITE AS IT OCCURS. ALL MATERIALS SHALL BE PROPERLY DISPOSED OF OFF-SITE IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
6. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING IMPROVEMENTS AND FACILITIES TO REMAIN IN PLACE. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF DAMAGED ITEMS AS A RESULT OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

## CONTRACTOR NOTES:

1. UNLESS INDICATED OTHERWISE, REFER TO THE LATEST EDITION OF THE STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS FOR GENERAL REQUIREMENTS, PRODUCTS AND EXECUTION OF WORK INCLUDING, BUT NOT LIMITED TO; CLEARING, GRUBBING, ROADS, UTILITY TRENCH EXCAVATION, BORROW, SUBGRADE, SUBBASE, GRANULAR FILL, AND AGGREGATE BASE.
2. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL MARK OR DELINEATE THE FOLLOWING PROJECT FEATURES USING APPROPRIATE MEANS, INCLUDING BUT NOT LIMITED TO LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, BARRIER FENCE, OR SUITABLE EQUIVALENT.
   - A. PROPOSED FACILITY COMPONENTS DEPICTED ON THE CONSTRUCTION DRAWINGS
   - B. STREAMS, WETLANDS, AND WETLAND BUFFER ZONES
   - C. VEHICLE TRAVEL CORRIDORS, STREAM CROSSING LOCATIONS
   - D. LIMITS OF CLEARING AND DISTURBANCE
   - E. PROTECTED CULTURAL AND NATURAL RESOURCES
3. THE CONTRACTOR SHALL NOTE THE CONDITION OF ANY EXISTING FEATURES NOT INDICATED FOR REMOVAL THAT MAY BE IMPACTED BY PROJECT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED FEATURES AT THEIR EXPENSE.
4. DISRUPTION TO REGULATED WETLANDS AND PROTECTED HABITAT SHALL BE MINIMIZED. THE CONTRACTOR SHALL NOTIFY NYSDEC'S FIELD REPRESENTATIVE, THE DPS STAFF REPRESENTATIVE, AND THE APPLICANT'S REPRESENTATIVE OF ANY ACTIVITIES THAT VIOLATE OR MAY VIOLATE EITHER THE TERMS OF THE CERTIFICATE OR THE ENVIRONMENTAL CONSERVATION LAW. DPS AND DEC STAFFS' FIELD REPRESENTATIVES WILL WORK COOPERATIVELY TO DETERMINE WHETHER STOP WORK AUTHORITY WILL BE EXERCISED, OR WHETHER TO DIRECT THE APPLICANT TO TAKE ACTION TO FURTHER MINIMIZE IMPACTS TO STREAMS AND WETLANDS.
5. ACTIVITIES WITHIN JURISDICTIONAL WETLANDS, STREAMS AND ASSOCIATED BUFFERS SHALL INCLUDE THE FOLLOWING RESTRICTIONS:
   - A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;
   - B. NO UNNECESSARY REMOVAL OF WOOD VEGETATION WITHIN WETLAND AND STREAM BUFFERS OR DEGRADATION OF STREAM BANKS;
   - C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFICALLY PERMITTED BY THE FINAL PROJECT DOCUMENTS;
   - D. AND NO STORAGE, MIXING, OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.
6. AT THE END OF EACH WORK DAY ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED MORE THAN 100 FEET LANDWARD OF ANY REGULATED WETLAND OR WATER BODY.
7. FUEL AND OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND LOCATED IN AREAS MORE THAN 300 FEET LANDWARD OF ANY REGULATED WETLAND OR WATER BODY.
8. ALL MOBILE EQUIPMENT, EXCLUDING DEWATERING PUMPS, SHALL BE FUELED IN LOCATIONS THAT ARE A MINIMUM OF 100 FEET FROM THE TOP OF STREAM BANK, WETLAND, OR WATER BODY. DEWATERING PUMPS OPERATING CLOSER THAN 100 FEET FROM THE STREAM BANK WETLAND, OR WATER BODY MUST BE ON AN IMPERVIOUS SURFACE WITH ABSORBENTS CAPABLE OF CONTAINING ANY LEAKAGE OF PETROLEUM PRODUCTS.
9. ALL EQUIPMENT USED WITHIN BED OR BANKS OF STREAMS OR IN REGULATED WETLANDS AND 100-FOOT WETLAND BUFFER ZONES MUST BE INSPECTED DAILY FOR LEAKS OF PETROLEUM, OTHER FLUIDS, OR CONTAMINANTS. EQUIPMENT FOUND TO BE LEAKING SHALL BE REMOVED FROM THE WORK SITE; LEAKS CONTAINED AND SPILLS CLEANED UP IMMEDIATELY.
10. "AVOID, DO NOT CROSS" INDICATES THAT AN AREA DOES NOT HAVE A DESIGNATED ACCESS ROUTE AND THAT EQUIPMENT IS RESTRICTED FROM CROSSING OR OPERATING IN THAT AREA. THIS DESIGNATION IS APPLIED TO ALL WETLANDS, STREAMS, AND ASSOCIATED BUFFERS THAT DO NOT HAVE APPROVED EQUIPMENT ACCESS, AS INDICATED.
11. THE NATIVE SUBSOIL AT THE BROOKSIDE SOLAR FACILITY PROJECT SITE IS VERY SENSITIVE TO MOISTURE AND WILL LOSE STRENGTH RAPIDLY WHEN EXPOSED TO WATER. THE CONTRACTOR SHALL UTILIZE APPROPRIATE WET WEATHER CONSTRUCTION TECHNIQUES DURING CONSTRUCTION OF THE FACILITY. WET WEATHER CONSTRUCTION TECHNIQUES MAY INCLUDE LIMITING EXPOSURE OF SUBSOILS TO THAT WHICH CAN BE COMPLETED OR COVERED BY THE END OF EACH WORKDAY; TEMPORARY CONSTRUCTION ROADS AND PLATFORMS BUILT WITH CONSTRUCTION MATTING OR GEOTEXTILES AND CRUSHED STONE; TEMPORARY FILL, AND OTHER METHODS.
12. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR MORE SPECIFIC CUT AND FILL CONSTRUCTION REQUIREMENTS.
13. ALL VEHICLE TRAFFIC AND PARKING SHALL BE CONFINED TO THE TEMPORARY ACCESS ROADS, DESIGNATED WORK AREAS, AND/OR DESIGNATED PARKING AND MATERIAL LAYDOWN AREAS.
14. EXISTING FARM FENCES NOT INDICATED FOR REMOVAL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. WHERE EXISTING FENCE OR GATES MUST BE REMOVED OR ALTERED, TEMPORARY FENCING AND GATES SHALL BE PROVIDED TO MATCH THE FUNCTION OF THE EXISTING SYSTEM. AT THE END OF CONSTRUCTION, RESTORE THE FENCE AND GATE TO MATCH THAT EXISTING AT THE START OF THE WORK.
15. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL OIL/GAS WELLS AND PIPELINES DURING CONSTRUCTION ACTIVITIES.

## GENERAL ENVIRONMENTAL RESTRICTIONS:

1. ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT, MATERIALS, EMPLOYEE PARKING, AND OTHER CONSTRUCTION ACTIVITIES ARE RESTRICTED TO THE DESIGNATED ACCESS ROADS, LAYDOWN AREAS, SUBSTATION SITE, COLLECTION LINE AND TRANSMISSION LINE ROUTES AS INDICATED BY THE PROJECT DOCUMENTS.
2. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, WATER, OR STONE ON ACCESS ROADS, EXPOSED SOILS, STOCKPILED SOILS, OR UNPAVED PUBLIC ROADS WHEN DRY, WINDY CONDITIONS EXIST. A WATERING VEHICLE (OR A VEHICLE CONTAINING AN APPROVED CHEMICAL TREATMENT) SHALL BE MADE AVAILABLE AS NEEDED.
3. CONTRACTOR SHALL MAINTAIN ALL EQUIPMENT IN GOOD OPERATING CONDITION. ALL MOTORS AND ENGINES SHALL BE MUFFLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND SHALL COMPLY WITH TITLE 6 OF THE STATE ENVIRONMENTAL CONSERVATION LAW, SUBCHAPTER E, PART 450 (NOISE FROM HEAVY MOTOR VEHICLES). ANY FAULTY NOISE SUPPRESSOR SHALL BE REPAIRED OR REPLACED IMMEDIATELY. EQUIPMENT SHALL NOT BE LEFT RUNNING UNNECESSARILY. EXISTING TALL GROWING VEGETATION SHALL BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE, TO SERVE AS A NOISE BUFFER.
4. CONSTRUCTION AND ROUTINE MAINTENANCE ACTIVITIES ON THE FACILITY SHALL BE LIMITED TO 7 A.M. TO 8 P.M. MONDAY THROUGH SATURDAY AND 8 A.M. TO 8 P.M. ON SUNDAY AND NATIONAL HOLIDAYS, WITH THE EXCEPTION OF CONSTRUCTION AND DELIVERY ACTIVITIES, WHICH MAY OCCUR DURING EXTENDED HOURS BEYOND THIS SCHEDULE ON AN AS-NEEDED BASIS.
5. IN PROTECTED STREAMS WITH THE STANDARD OF SUPPORTING TROUT SPECIES, ALL INSTREAM WORK, AS WELL AS ANY WORK THAT MAY RESULT IN THE SUSPENSION OF SEDIMENT, IS PROHIBITED DURING THE TROUT SPAWNING AND INCUBATION PERIOD COMMENCING OCTOBER 1 AND ENDING MAY 31, UNLESS THE CERTIFICATE HOLDER RECEIVES PRIOR APPROVAL FROM THE DEC REGION 5 SUPERVISOR OF NATURAL RESOURCES.
6. MINIMIZE VEGETATION REMOVAL WITHIN STREAM AND WETLAND BUFFER ZONES (100 FEET FROM STATE REGULATED WETLANDS AND 25 FEET FROM OTHER WATER BODIES) OUTSIDE OF THE ARRAY SECURITY FENCE. TREE REMOVAL LIMITS IDENTIFIED ON THE PLANS SHALL BE DEMARCATED IN THE FIELD. TREE CLEARING WITHIN 10-FEET OF PROPOSED ARRAY PERIMETER FENCES SHALL INCLUDE FULL REMOVAL OF TREES, BRUSH, STUMPS, AND SURFACE RESTORATION TO ACCOMMODATE PANEL INSTALLATION. TREE CLEARING 10-FEET BEYOND THE PERIMETER FENCES TO ELIMINATE SHADING SHALL CONSIST OF SELECTIVE CUTTING ONLY OF TREES TALLER THAN 30’. SELECTIVE CUTTING WITHIN JURISDICTIONAL WETLANDS, STREAMS AND ASSOCIATED BUFFERS SHALL BE ACCOMPLISHED WITH CHAINSAWS AND HAND TOOLS ONLY. ALL TREES AND SLASH SHALL BE DROPPED IN PLACE WITH NO REMOVAL. NO SOIL DISTURBANCE, INCLUDING CLEARING & GRUBBING, STUMP REMOVAL, ETC., SHALL OCCUR WITHIN THE JURISDICTIONAL WETLANDS, STREAMS OR BUFFERS UNLESS NOTED OTHERWISE ON THE PLANS. FOR SELECTIVE CUTTING OUTSIDE OF JURISDICTIONAL WETLANDS, STREAMS AND ASSOCIATED BUFFERS, TREES AND SLASH SHALL BE REMOVED IN A MANNER THAT MINIMIZES SOIL DISTURBANCE AND DISPOSED OF PROPERLY.
7. NO STUMP REMOVAL OR GRUBBING SHALL OCCUR WITHIN ANY STREAM OR WETLAND BUFFER, EXCEPT AT PERMANENT ACCESS ROAD CROSSING LOCATIONS.
8. ALL FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, SAND, AND/OR GRAVEL THAT IS FREE OF THE FOLLOWING SUBSTANCES: ASPHALT, SLAG, FLY ASH, DEMOLITION DEBRIS, BROKEN CONCRETE, GARBAGE, HOUSEHOLD REFUSE, TIRES, WOODY MATERIALS, AND METAL OBJECTS. REASONABLE EFFORTS SHALL BE MADE TO USE FILL MATERIALS THAT ARE VISIBLY FREE OF INVASIVE SPECIES BASED ON ONSITE AND SOURCE INSPECTIONS. THE INTRODUCTION OF MATERIALS TOXIC TO AQUATIC LIFE IS EXPRESSLY PROHIBITED.
9. INDIRECT IMPACTS TO STREAMS AND WETLANDS SHALL BE CONTROLLED THROUGH THE EMPLOYMENT OF APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). MEASURES TO BE EMPLOYED SHALL INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCES, CHECK DAMS, MULCH, TEMPORARY SEEDING, AND OTHER PRACTICES AS OUTLINED IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (LATEST EDITION).
10. EXPOSED SOIL SHALL BE SEEDED AND/OR MULCHED AS SOON AS PRACTICABLE AFTER FINAL GRADING. TEMPORARY SEED AND MULCH SHALL BE USED DURING PERIODS OF PLANNED EXTENDED SHUT-DOWNS, INTERRUPTED CONSTRUCTION AND DURING PERIODS OF HOT WEATHER WHEN PERMANENT SEEDING IS LIKELY TO FAIL.
11. IN THE EVENT THAT ARCHAEOLOGICAL MATERIALS, HUMAN REMAINS, OR EVIDENCE OF HUMAN BURIALS ARE ENCOUNTERED DURING CONSTRUCTION, ALL WORK IN THE VICINITY OF THE FIND SHALL BE IMMEDIATELY HALTED AND THE "UNANTICIPATED DISCOVERY PLAN" SHALL BE IMPLEMENTED.
12. THE CONTRACTOR SHALL LOCATE AND DISTRIBUTE EXCESS EXCAVATION MATERIAL IN NON-AGRICULTURE UPLAND AREAS (I.E., OUTSIDE OF WETLANDS, STREAMS, AND AGRICULTURAL FIELDS). WHERE PRACTICAL, SUCH MATERIAL SHALL BE USED AS ROAD FILL OR BACKFILL AROUND STRUCTURES. EROSION CONTROL PRACTICES SHALL BE INSTALLED, AND EXPOSED SOILS STABILIZED IN ACCORDANCE WITH THE SWPPP.
13. EXCESS CONCRETE SHALL BE PROPERLY DISPOSED OF OFF SITE.

## SPECIFIC WETLAND CROSSING RESTRICTIONS:

1. EXCEPT WHERE CROSSED BY PERMANENT ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS SHALL NOT BE CROSSED BY MOTORIZED EQUIPMENT. TEMPORARY ACCESS ACROSS WETLANDS SHALL BE REMOVED AT THE EARLIEST TIMEFRAME PRACTICAL.
2. WORK WITHIN AND ACCESS ACROSS WETLANDS SHALL BE DESIGNED AND EXECUTED SO AS NOT TO ALTER THE PRE-DISTURBANCE FLOW REGIME.
3. WETLAND TOPSOIL AND SUBSOIL SHALL BE SEGREGATED AND RETAINED FOR BACKFILL WITHIN THE WETLAND FROM WHICH IT ORIGINATED. WETLAND EXCAVATION SHALL BE BACKFILLED WITH SOILS TO MATCH NATURAL STRATA AND IN-SITU DENSITIES.
4. DURING EXCAVATION IN WETLANDS, TEMPORARY SPOIL STOCKPILES SHALL BE PLACED ON GEOTEXTILE BLANKETS AND/OR CONSTRUCTION MATTING. FOLLOWING BACKFILL, ANY EXCESS SPOILS NOT USED AS STRUCTURE BACKFILL SHALL BE DISPOSED OF AT AN UPLAND SITE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR (NO BACK-BLADING OR OTHERWISE SPREADING OF EXCESS SPOIL OVER THE WETLAND SURFACE SHALL BE PERMITTED).
5. EROSION CONTROL AND OTHER WETLAND PROTECTION MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCING AND SEDIMENT BARRIERS AS INDICATED WHENEVER EXCAVATION OR FILLING ACTIVITIES OCCUR ADJACENT TO OR WITHIN STREAM AND WETLAND AREAS.

## AGRICULTURAL LAND-RELATED RESTRICTIONS:

1. AGRICULTURAL MITIGATION, RESTORATION, AND CLEAN UP MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
   - A. USE OF CONSTRUCTION MATTING,
   - B. CONSTRUCTION OF TEMPORARY ACCESS ROADS AND ACCESS ROAD REMOVAL,
   - C. TOPSOIL STRIPPING,
   - D. PLACEMENT OF GEOTEXTILE AND STONE BEARING LAYER,
   - E. REGRADING AND SPREADING PREVIOUSLY STRIPPED TOPSOIL,
   - F. SURFACE AND DEEP TILLAGE,
   - G. DRAINAGE SYSTEM REPAIR OR ALTERATION.
2. IN ACTIVE LIVESTOCK-USE AREAS, ANY CHERRY TREE SLASH (TOXIC TO LIVESTOCK) GENERATED DURING CLEARING SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO BE AVAILABLE TO LIVESTOCK.
3. ANY WORK ON AGRICULTURAL LANDS SHALL INCLUDE THE FOLLOWING PRE-CONSTRUCTION TREATMENTS:
   - A. ALL TOPSOIL WILL BE PROTECTED BY APPROPRIATE MEANS, INCLUDING STRIPPING AND STOCKPILING.
   - B. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL IMPORTED MATERIAL SUCH AS GRAVEL SHALL BE COMPLETELY REMOVED FROM TEMPORARY CONSTRUCTION, AND THE UNDERLYING SOIL RESTORED AS PRESCRIBED BY PERMIT CONDITIONS.
4. TEMPORARY GRAVEL ROADS, TEMPORARY CULVERTS, TIMBER MATS, AND SIMILAR TEMPORARY MEASURES SHALL BE REMOVED AND THE IMPACTED AREAS RESTORED WITHIN THE TIMEFRAME PRESCRIBED BY THE PERMIT.
5. PERMANENT ACCESS AND HAUL ROADS SHALL BE CONSTRUCTED AS INDICATED ON THE FINAL CONSTRUCTION DRAWINGS.
6. ALL TEMPORARY ACCESS ROUTES ACROSS AGRICULTURAL FIELDS SHALL BE THE MINIMUM WIDTH NECESSARY TO ACCOMMODATE CONSTRUCTION TRAFFIC.
7. IMMEDIATELY FOLLOWING CONSTRUCTION ACTIVITY, THE WORK AREAS SHALL BE THOROUGHLY CLEARED OF ALL CONSTRUCTION DEBRIS, REFUSE AND METAL OBJECTS SUCH AS NUTS, BOLTS, SPIKES, WIRE, PIECES OF STEEL, AND OTHER ASSORTED ITEMS.
8. LIMITS OF DISTURBANCE, LIMITS OF CLEARING, BUFFER DELINEATIONS AND OTHER TEMPORARY MARKINGS SHALL UTILIZE WOOD STAKES, BARRIER FENCES AND SIMILAR METHODS. NO PIN FLAGS SHALL BE USED IN AGRICULTURAL FIELDS.
9. THE NEW YORK DEPARTMENT OF AGRICULTURE AND MARKETS (NYSDAM) GUIDELINES FOR AGRICULTURE AND MITIGATION FOR SOLAR POWER PROJECTS SHALL BE FOLLOWED TO THE EXTENT PRACTICABLE. WHEN DEVIATIONS FROM THE GUIDELINES ARE NECESSARY NYSDAM SHALL BE CONSULTED.
10. ALL EXISTING DRAINAGE AND EROSION CONTROL FEATURES NOT INDICATED FOR REMOVAL INCLUDING BUT NOT LIMITED TO DRAINAGE DITCHES, DIVERSIONS, DRAIN TILE, CULVERTS ETC; SHALL BE AVOIDED OR PROTECTED FROM DAMAGE. ANY FEATURES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IMMEDIATELY.
11. TOPSOIL STRIPPED FROM WORK SITES IN AGRICULTURAL AREAS SHALL BE SEGREGATED FROM OTHER SOIL PRODUCTS AND STOCKPILED IN AREAS IMMEDIATELY ADJACENT TO WHERE IT WAS REMOVED. THE TOPSOIL SHALL BE USED FOR RESTORATION OF THAT SITE.
12. AT THE COMPLETION OF WORK, ALL DISTURBED AGRICULTURAL AREAS SHALL BE DECOMPACTED TO A DEPTH OF 18 INCHES PRIOR TO REPLACEMENT OF TOPSOIL. ALL ROCKS 4 INCH DIAMETER AND LARGER SHALL BE REMOVED.
13. FOLLOWING DECOMPACTION OF SUBSOIL, TOPSOIL SHALL BE SPREAD, DECOMPACTED, ROCKS REMOVED, AND SEEDED. SEED MIX SHALL BE FOR A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT, AS DETERMINED BY THE ENVIRONMENTAL MONITOR FOR THE PROJECT.
14. SOIL DECOMPACTION SHALL USE A DEEP RIPPER, OR HEAVY DUTY CHISEL-PLOW. DECOMPACT SOIL TO A MAX. COMPRESSIVE STRENGTH OF 250 PSI AS MEASURED USING A SOIL PENETROMETER.
15. SOIL RESTORATION SHALL NOT OCCUR FROM OCTOBER 1 THROUGH MAY 30 UNLESS FAVORABLE, DRY SOIL CONDITIONS EXIST. CONCURRENCE OF THE ENVIRONMENTAL MONITOR SHALL BE OBTAINED PRIOR TO THE START OF RESTORATION ACTIVITIES.

## NON-AGRICULTURAL LAND RESTRICTIONS:

1. NON-AGRICULTURAL LAND MITIGATION, RESTORATION, AND CLEAN UP MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
   - A. TOPSOIL STRIPPING AND STOCKPILING,
   - B. USE OF CONSTRUCTION MATTING,
   - C. CONSTRUCTION OF TEMPORARY HAUL ROADS AND HAUL ROAD REMOVAL,
   - D. PLACEMENT AND COMPACTION OF STONE BEARING LAYER WITH OR WITHOUT GEOSYNTHETIC LAYER,
   - E. SURFACE TILLAGE,
   - F. REGRADING AND SPREADING PREVIOUSLY STRIPPED TOPSOIL,
   - G. DRAINAGE SYSTEM REPAIR OR ALTERATION.
2. TEMPORARY GRAVEL ROADS, TEMPORARY CULVERTS, TIMBER MATS, AND SIMILAR TEMPORARY MEASURES SHALL BE REMOVED AND THE IMPACTED AREAS RESTORED WITHIN THE TIMEFRAME PRESCRIBED BY THE PERMIT.
3. RESTORATION OF DISTURBED AREAS, TEMPORARY ROADS AND WORK PLATFORMS ON NON-AGRICULTURAL LANDS SHALL INCLUDE THE FOLLOWING PRE- AND POST-CONSTRUCTION TREATMENTS:
   - A. TOPSOIL WITHIN CONSTRUCTION AREA SUBJECT TO VEHICLE TRAFFIC, MATERIAL STOCKPILING OR OTHER POTENTIALLY HARMFUL ACTIVITY SHALL BE STRIPPED AND STOCKPILED.
   - B. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL TEMPORARY ROADS AND WORK SITES SHALL BE SCARIFIED/DECOMPACTED AND STOCKPILED SOIL SPREAD AND THE AREA STABILIZED AND ALLOWED TO RE-VEGETATE NATURALLY.
   - C. APPROVED SWPPP/ESC CONTROLS, INCLUDING BIODEGRADABLE MEASURES, SHALL BE PROVIDED AND SHALL REMAIN IN PLACE UNTIL THE RESTORED AREA HAS BEEN RE-VEGETATED.
4. ACCESS ROUTES SHALL BE CONSTRUCTED AS INDICATED ON THE FINAL CONSTRUCTION DRAWINGS, WITH CONSTRUCTION ACTIVITIES RESTRICTED TO DESIGNATED CORRIDORS/RIGHTS-OF-WAY.
5. ALL EXISTING DRAINAGE AND EROSION CONTROL FEATURES NOT INDICATED FOR REMOVAL INCLUDING BUT NOT LIMITED TO DRAINAGE DITCHES, DIVERSIONS, DRAIN TILE, CULVERTS ETC; SHALL BE AVOIDED OR PROTECTED FROM DAMAGE. ANY FEATURES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION IMMEDIATELY.
6. TOPSOIL STRIPPED FROM WORK SITES SHALL BE SEGREGATED FROM OTHER SOIL PRODUCTS AND STOCKPILED IN AREAS IMMEDIATELY ADJACENT TO WHERE IT WAS REMOVED. THE TOPSOIL SHALL BE USED FOR RESTORATION OF THAT SITE.

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PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:
BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:
TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
GENERAL NOTES

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
AS NOTED

SHEET NO: PV-G.01.01
REV: 0

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EROSION & SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENTATION CONTROL MEASURES FOR THIS PROJECT SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STATE DISCHARGE POLLUTANT ELIMINATION SYSTEM GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-20-001).
2. REFER TO THE CONSTRUCTION SEQUENCE IN THE SWPPP.
3. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL PRACTICES IN ACCORDANCE WITH THE DESIGN AND SWPPP THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED FOR THE ACCESS ROUTES AT EACH JUNCTION WITH A PUBLIC ROAD UNLESS OTHERWISE INDICATED.
5. INSTALL SILT FENCE ON THE DOWN-SLOPE SIDE OF DISTURBED AREAS AS NECESSARY.
6. PLACE CHECK DAMS IN ALL SWALES/DITCHES INDICATED OR DIRECTED IN ACCORDANCE WITH THE 2016 NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NYSDEC "BLUE BOOK").
7. THE CONTRACTOR SHALL PLACE SOIL AND EXCESS EXCAVATED EARTH IN TEMPORARY STOCK PILE AREAS THAT DO NOT INTERFERE WITH CONSTRUCTION ACTIVITIES, STORMWATER RUNOFF, AND ARE NOT IN ENVIRONMENTALLY SENSITIVE AREAS. STOCK PILES SHALL BE STABILIZED AS STIPULATED OR DIRECTED.
8. ALL DISTURBED AREAS SHALL BE STABILIZED PER THE NYS STANDARDS FOR EROSION AND SEDIMENT CONTROL.
9. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL DE-COMPACT, ROUGH GRADE, RE-APPLY STOCKPILED TOPSOIL, FINE GRADE, SEED, AND MULCH ALL DISTURBED AREAS PLANNED FOR VEGETATIVE COVER.
10. CONSTRUCTION WORK AREAS AND ACCESS ROUTES MAY BE IMPROVED AS NECESSARY TO ALLOW CONSTRUCTION ACCESS. ANY IMPROVEMENTS, UNLESS DEEMED PERMANENT, MUST BE REMOVED OR RESTORED AT THE COMPLETION OF CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT, DESIGN, APPROVAL, AND OPERATION OF CONCRETE WASHOUTS. THE CONCRETE WASHOUTS SHALL BE INSTALLED A MINIMUM OF 50 FEET AWAY FROM STORM DRAINAGE, SURFACE WATER, OR OTHER SENSITIVE AREAS. CONCRETE WASTE MATERIAL SHALL NOT BE ALLOWED TO DISCHARGE FROM THE CONCRETE WASHOUT.
12. PROJECT SITE SOILS AND SLOPES MAKE EXCAVATIONS AND FILLS HIGHLY SUSCEPTIBLE TO EROSION. THE SUBSTATION, OPERATIONS AND MAINTENANCE YARD ARE GRADED TO FLOW OFF ONE EDGE. ALTHOUGH THE GRADES ARE RELATIVELY FLAT, DRAINAGE AREAS MAY BE QUITE LARGE CAUSING SIGNIFICANT FLOWS. THE CONTRACTOR SHALL USE EXTREME CARE IN CONSTRUCTING AND MAINTAINING THESE FEATURES.
13. EROSION CONTROL FEATURES INDICATED ON THE DRAWINGS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL DEPLOY ADDITIONAL CONTROLS AS NECESSARY. PARTICULARLY FOR THOSE ITEMS CONSTRUCTED DURING WINTER MONTHS OR WHICH DO NOT HAVE AN ADEQUATE STAND OF VEGETATIVE GROUND COVER.
14. CUT SLOPES MAY INCLUDE NATURAL DRAINAGE LAYERS IN THE CUT FACE. CONTRACTOR SHALL PROVIDE SUBSURFACE DRAINS, TOE DRAINS/ROCK BLANKETS AS NEEDED OR DIRECTED TO CONTROL EROSION AND PROVIDE SLOPE STABILITY.

## TOWN OF BURKE/CHATEAUGAY ZONING SUMMARY - SOLAR ENERGY LAW

| DIMENSION | LARGE-SCALE SOLAR ENERGY SYSTEM REQUIREMENTS | PROVIDED |
|---|---|---|
| *MINIMUM SETBACK FROM RESIDENTIAL STRUCTURES | 500 FEET | 500 FEET |
| MINIMUM SETBACK FROM PRIVATE/PUBLIC RIGHT OF WAYS | 50 FEET | 50 FEET |
| FENCE HEIGHT | 7'-0" | 7'-0" |
| MINIMUM ACCESS ROAD WIDTH | PER NEC | 20 FEET |
| *AFFECTED HOME OWNER MAY IRREVOCABLY WAIVE THE REQUIREMENT | | |

## 94-C SETBACK REQUIREMENTS FOR SOLAR FACILITY COMPONENTS

| DIMENSION | REQUIRED | PROVIDED |
|---|---|---|
| MAXIMUM HEIGHT (SOLAR ARRAY) | 20 FEET | 8'-11" |
| NON-PARTICIPATING RESIDENTIAL PROPERTY LINES | 100 FEET | 100 FEET |
| CENTERLINE OF PUBLIC ROADS | 50 FEET | 50 FEET |
| NON PARTICIPATING NON-RESIDENTIAL PROPERTY LINES | 50 FEET | 50 FEET |
| NON-PARTICIPATING OCCUPIED RESIDENCES | 250 FEET | 500 FEET |

## SOILS DATA

| SYMBOL | NAME | SLOPE | HSG |
|---|---|---|---|
| Bea | BRAYTON STONY LOAM | 0-3% | C/D |
| Beb | BRAYTON STONY LOAM | 3-8% | C/D |
| Bfb | BRAYTON VERY STONY LOAM | 0-8% | C/D |
| Caa | COLTON AND CONSTABLE GRAVELLY LOAMY SANDS | 0-3% | A |
| Cab | COLTON AND CONSTABLE GRAVELLY LOAMY SANDS | 3-8% | A |
| Cbb | COLTON AND CONSTABLE COBBLY LOAMY SANDS | 3-8% | A |
| Ccc | COLTON AND CONSTABLE GRAVELLY AND COBBLY LOAMY SANDS | 8-15% | A |
| Ccd | COLTON AND CONSTABLE GRAVELLY AND COBBLY LOAMY SANDS | 15-25% | A |
| Daa | DUANE GRAVELLY SANDY LOAM | 0-3% | A/D |
| Eaa | EMPEYVILLE VERY FINE SANDY LOAM | 0-3% | B/D |
| Eab | EMPEYVILLE VERY FINE SANDY LOAM | 3-8% | B/D |
| Eac | EMPEYVILLE VERY FINE SANDY LOAM | 8-15% | B/D |
| Ecd | EMPEYVILLE VERY FINE SANDY LOAM | 15-25% | B/D |
| Edc | EMPEYVILLE VERY FINE SANDY LOAM | 8-25% | B/D |
| Mea | MOIRA STONY LOAM | 0-3% | C/D |
| Meb | MOIRA STONY LOAM | 3-8% | C/D |
| Mec | MOIRA STONY LOAM | 8-15% | C/D |
| Mha | MUCK | - | B/D |
| Qu | QUARRIES | - | - |
| Saa | SACO AND SLOAN SOILS | 0-2% | B/D |
| Sea | SCARBORO FINE SANDY LOAM | 0-3% | A/D |
| Sga | SCARBORO LOAM, NEUTRAL VARIANT, OVER TILL OR CLAY | 0-3% | C/D |
| Sma | RUNEBERG SOILS | 0-5% | A/D |
| Sna | RUNEBERG SOILS | 0-5% | A/D |
| Tca | TUGHILL AND DANNEMORA STONY VERY FINE SANDY LOAMS | 0-3% | C/D |
| Tda | TUGHILL AND DANNEMORA VERY STONY VERY FINE SANDY LOAMS | 0-3% | C/D |
| W | WATER | - | - |
| Wca | WALPOLE SANDY LOAM | 0-6% | A/D |
| Wma | WESTBURY AND DANNEMORA STONY VERY FINE SANDY LOAMS | 0-3% | D |
| Wmb | WESTBURY AND DANNEMORA STONY VERY FINE SANDY LOAMS | 3-8% | D |
| Wqa | WORTH VERY FINE SANDY LOAM | 0-3% | B |
| Wqb | WORTH VERY FINE SANDY LOAM | 3-8% | B |
| Wsd | WORTH VERY FINE SANDY LOAM | 8-25% | B |
| Wte | WORTH VERY FINE SANDY LOAM | 25-60% | B |

SOILS INFORMATION OBTAINED FROM NRCS MEDIUM INTENSITY SOIL SURVEY OF FRANKLIN COUNTY, NY DATED APRIL 2021, DOWNLOADED FROM THE NRCS WEB SOIL SURVEY WEBSITE.

## SYSTEM SPECIFICATIONS

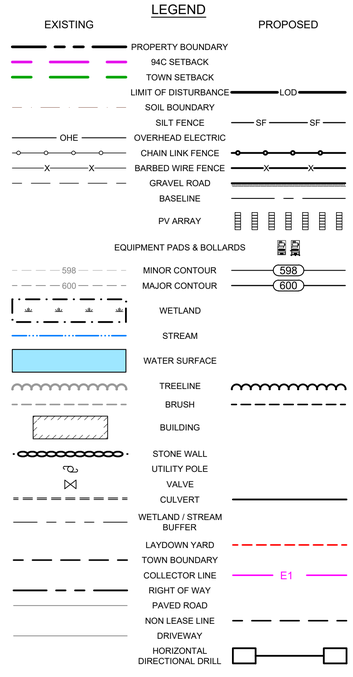
| | |
|---|---|
| SYSTEM STC DC RATING (MW) | 130.096 |
| SYSTEM AC CAPACITY AT GRID (MW) | 100 |
| SYSTEM AC RATING AT INVERTER | 108,000 |
| DC/AC RATIO AT GRID | 1.301 |
| DC/AC RATIO AT INVERTER | 1.205 |
| MODULE MODEL | JINKO SOLAR JKM530M-72HL4-TV |
| MODULE STC DC RATING (W) | 530 |
| MODULE COUNT | 245,466 |
| MODULES PER STRING | 26 |
| STRING COUNT | 9,441 |
| 4 STRING TRACKER | 1,661 |
| 3 STRING TRACKER | 699 |
| 2 STRING TRACKER | 350 |
| INVERTER MODEL | SUNGROW SG3600UD-MV |
| INVERTER RATING (MW) | 3600 KW |
| QUANTITY OF INVERTERS | 30 |
| TRANSFORMER RATING (MVA) | 3.60 |
| QUANTITY OF TRANSFORMERS | 30 |
| DC SYSTEM VOLTAGE (V) | 1500 |
| INTERCONNECTION VOLTAGE (KV) | 115 |
| RACKING SYSTEM | ATI DURATRACK HZ V3 |
| MODULE TILT | -52° TO 52° |
| AXIS AZIMUTH | 180° |
| GCR | 0.36 |
| ROW-TO-ROW SPACING (LF) | 13'-0" |
| ASHRAE 0.4% DESIGN BULB TEMP MAX (°C) | 31 |
| ASHRAE EXTREME ANNUAL MEAN MINIMUM DRY-BULB TEMP (°C) | -32 |

## ESTIMATED CIVIL QUANTITIES

| | |
|---|---|
| PROPERTY AREA (ACRES) | 1130 |
| FENCED AREA (ACRES) | 541 |
| FENCE LENGTH (LF) | 95229 |
| HAUL ROAD LENGTH (LF) | 31081 |

NOTE, ESTIMATED QUANTITIES TO BE VERIFIED BY CONTRACTOR.

## LEGEND

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DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

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| NO. | DATE | DESCRIPTION |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GENERAL NOTES & LEGEND

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

AS NOTED

SHEET NO: PV-G.01.02

REV: 0

AES Tilelock 22X34 (4/2019)




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600 0 600 1200 FT
SCALE: 1" = 600'

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

OVERALL SITE LAYOUT & KEY SHEET

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| | |
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| APV: | - |
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SCALE AT 22" x 34":

1" = 600'

SHEET NO: PV-G.02.01

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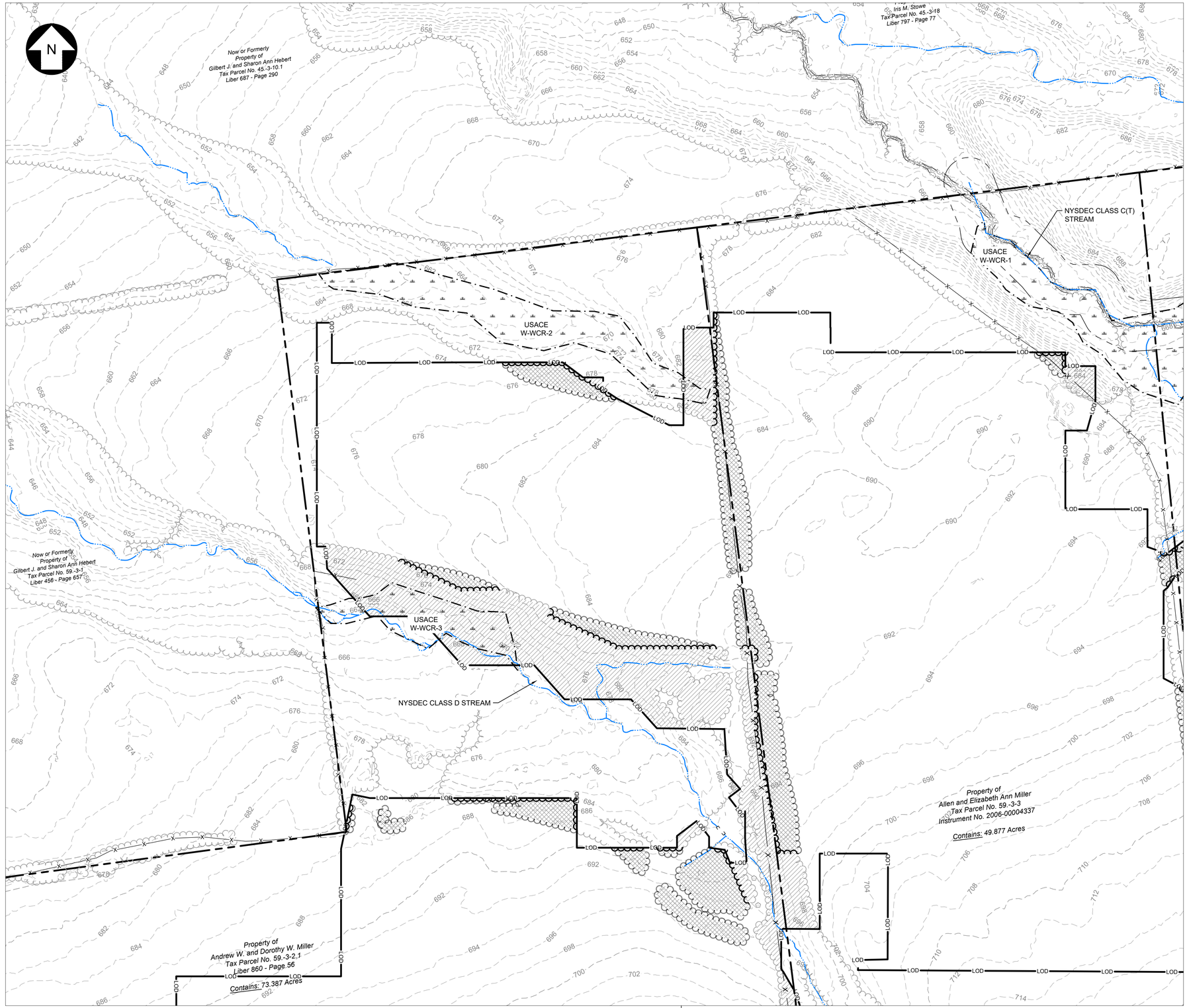
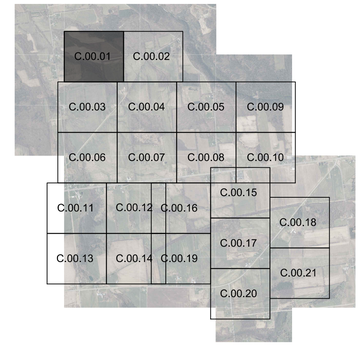
AES Tilelock 22X34 v2103019




KEY MAP
SCALE: 1" = 3000'

## LEGEND

- PROPERTY BOUNDARY
- LEASE LIMITS
- TOWN BOUNDARY
- RIGHT OF WAY
- LOD — LIMITS OF DISTURBANCE
- 598 — MINOR CONTOUR
- 600 — MAJOR CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- DRIVEWAY
- BUILDING
- CULVERT
- EXISTING WELL
- UTILITY POLE
- EXISTING VALVE
- OHE — EXISTING OVERHEAD ELECTRIC
- OHE — OVERHEAD ELECTRIC
- STREAM
- STREAM BUFFER
- CHAIN LINK FENCE
- DEMOLISH CHAIN LINK FENCE
- BARBED WIRE FENCE
- DEMOLISH BARBED WIRE FENCE
- STONE WALL
- DEMOLISH STONE WALL
- EXISTING TREELINE
- TREELINE TO BE REMOVED
- PROPOSED TREELINE
- EXISTING BRUSHLINE
- BRUSHLINE TO BE REMOVED
- PROPOSED BRUSHLINE
- FEMA ZONE A
- WATER SURFACE
- WETLAND
- TREE CLEARING
- SELECTIVE TREE CUTTING

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100 0 100 200 FT
SCALE: 1" = 100'

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PROJECT TITLE:

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PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

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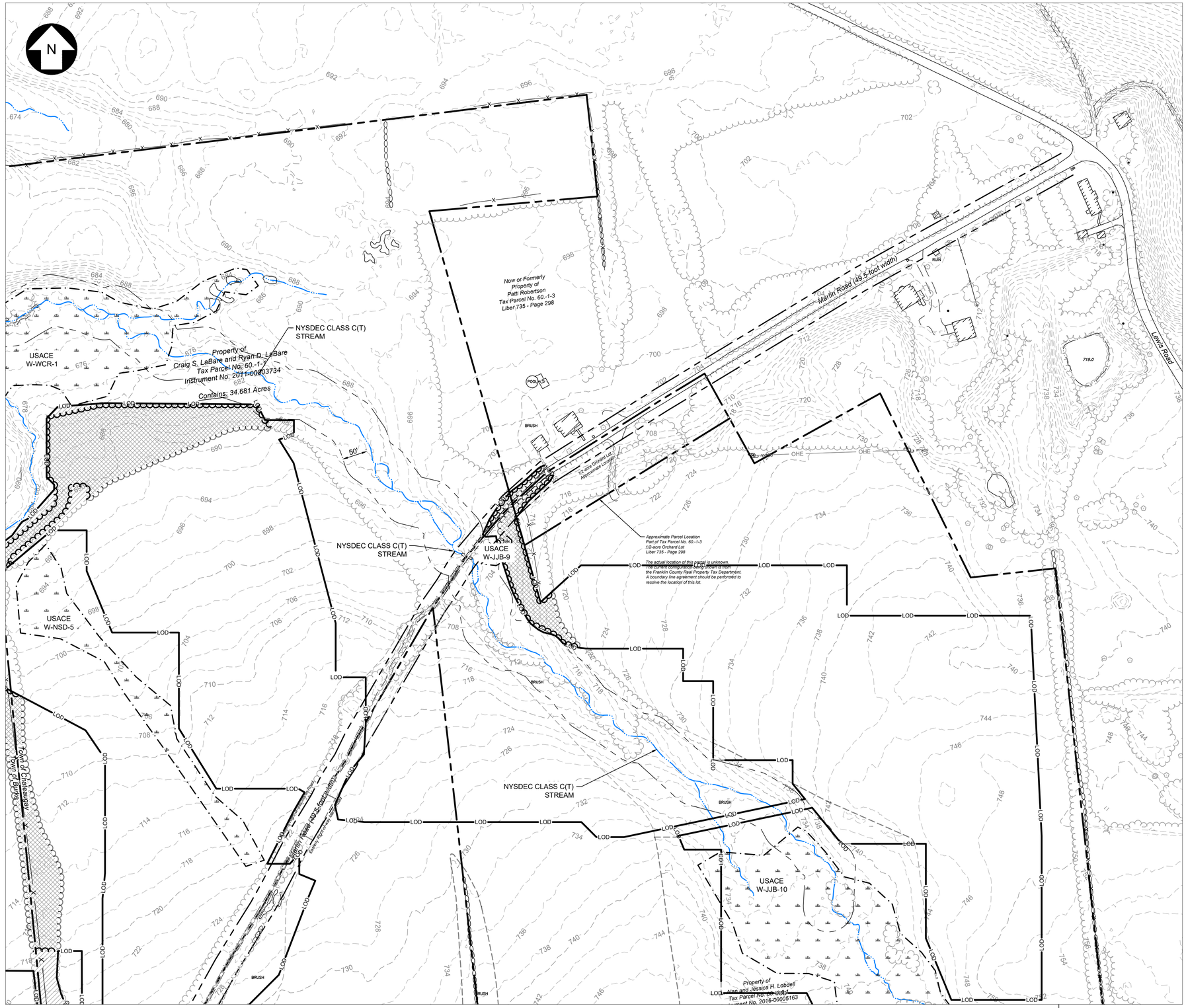
AES Tilelock 22X34 v210319

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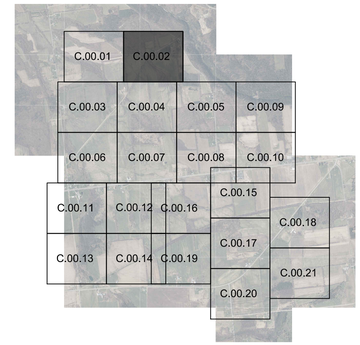


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- EXISTING TREELINE
- TREELINE TO BE REMOVED
- PROPOSED TREELINE
- EXISTING BRUSHLINE
- BRUSHLINE TO BE REMOVED
- PROPOSED BRUSHLINE
- FEMA ZONE A
- WATER SURFACE
- WETLAND
- TREE CLEARING
- SELECTIVE TREE CUTTING

Dig Safely. New York
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PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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Augusta, ME 04330

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DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.00.02 | 0 |

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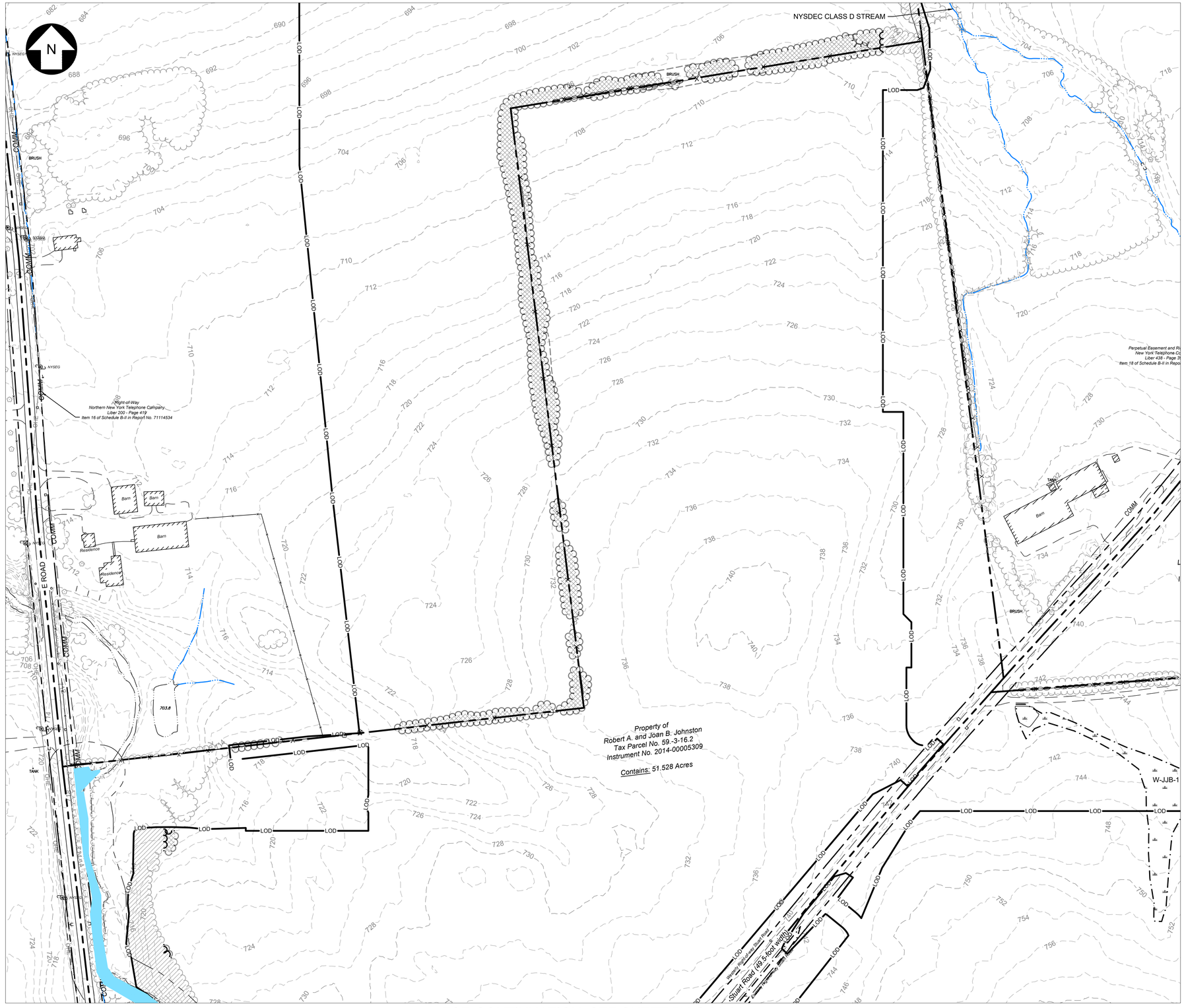
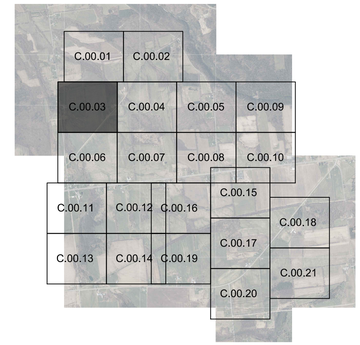
FOR CONTINUATION, SEE SHEET PV-C.00.01




KEY MAP
SCALE: 1" = 3000'

## LEGEND

- PROPERTY BOUNDARY
- LEASE LIMITS
- TOWN BOUNDARY
- RIGHT OF WAY
- LOD — LIMITS OF DISTURBANCE
- 598 — MINOR CONTOUR
- 600 — MAJOR CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- DRIVEWAY
- BUILDING
- CULVERT
- EXISTING WELL
- UTILITY POLE
- EXISTING VALVE
- OHE — EXISTING OVERHEAD ELECTRIC
- OHE — OVERHEAD ELECTRIC
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- STREAM BUFFER
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

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TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
1" = 100'

SHEET NO: PV-C.00.03
REV: 0

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FOR CONTINUATION, SEE SHEET PV-C.00.01

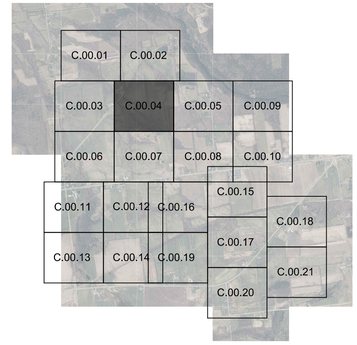
FOR CONTINUATION, SEE SHEET PV-C.00.02

FOR CONTINUATION, SEE SHEET PV-C.00.03

FOR CONTINUATION, SEE SHEET PV-C.00.05

FOR CONTINUATION, SEE SHEET PV-C.00.07

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PROJECT TITLE:

# BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

## EXISTING CONDITIONS & CLEARING PLAN

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| PROJ NUM: | 422299 |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
1" = 100'

SHEET NO: PV-C.00.04
REV: 0

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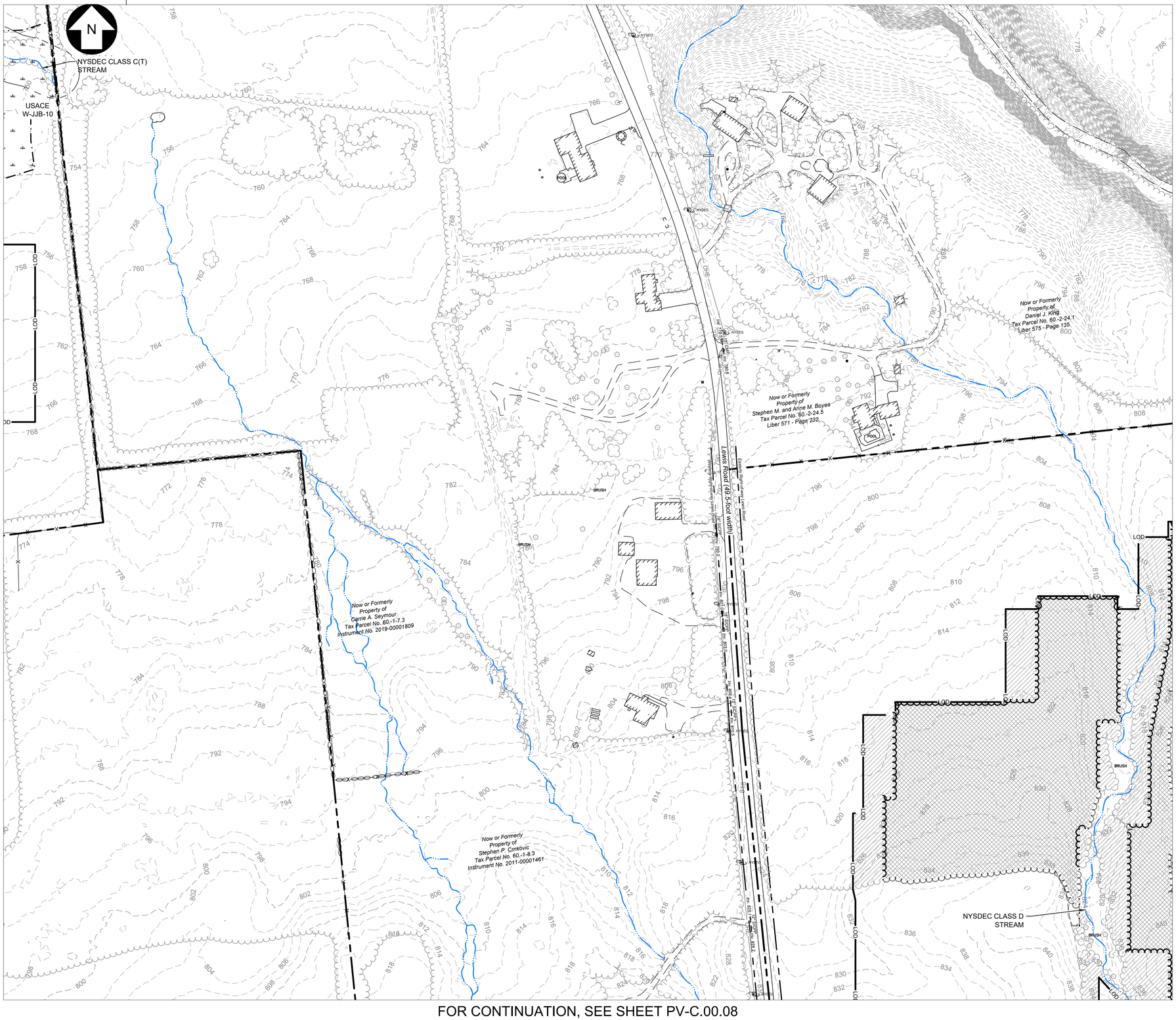
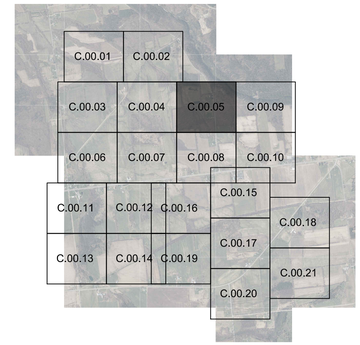
FOR CONTINUATION, SEE SHEET PV-C.00.02




KEY MAP
SCALE: 1" = 3000'

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.00.05 | 0 |

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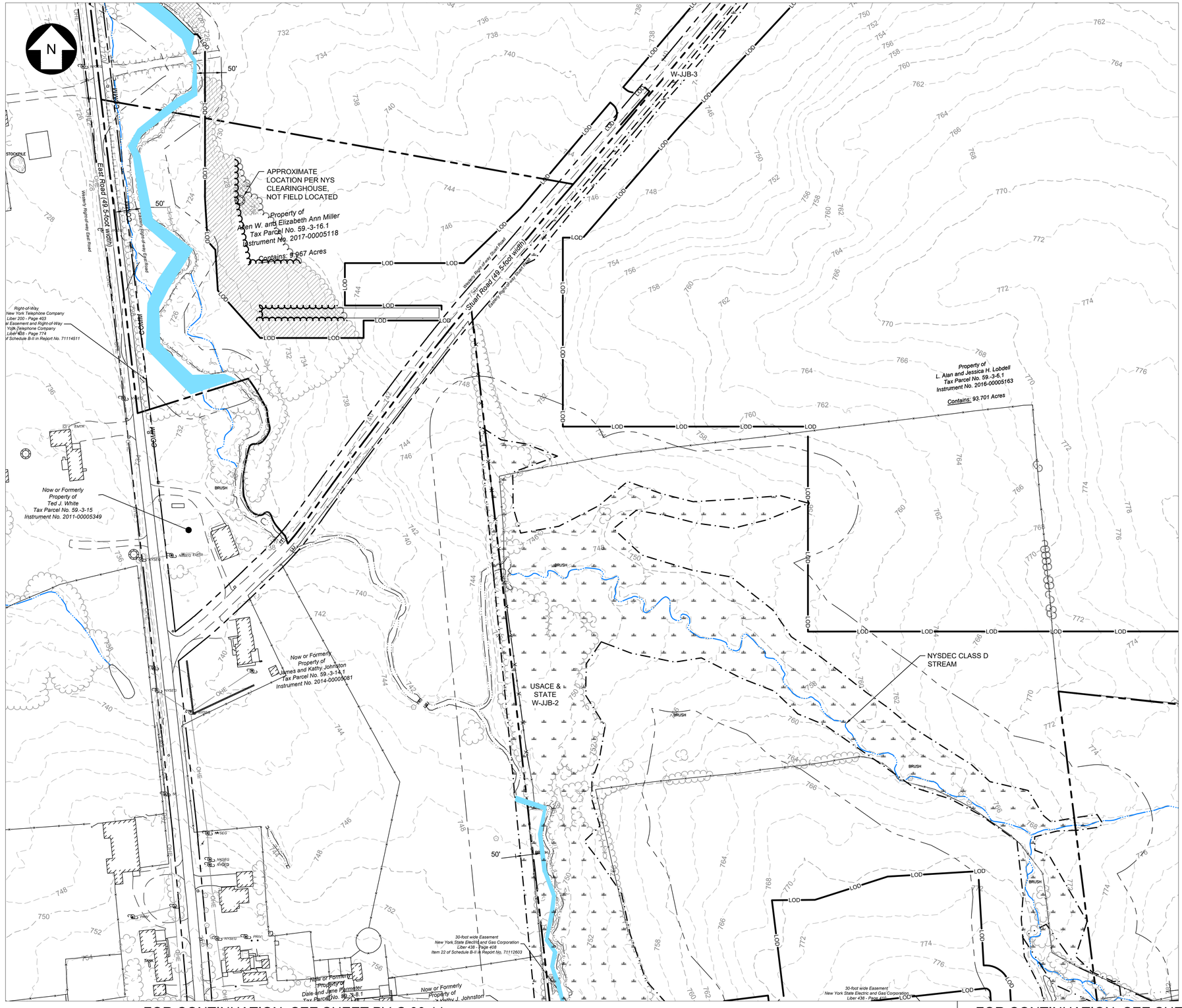
FOR CONTINUATION, SEE SHEET PV-C.00.03

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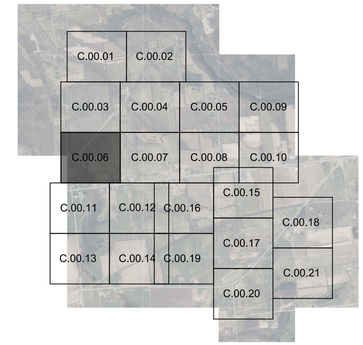


KEY MAP
SCALE: 1" = 3000'

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FOR CONTINUATION, SEE SHEET PV-C.00.11

FOR CONTINUATION, SEE SHEET PV-C.00.12

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PROJECT TITLE:

# BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

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| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.06

REV: 0

AES Tilebock 22X34 v210319

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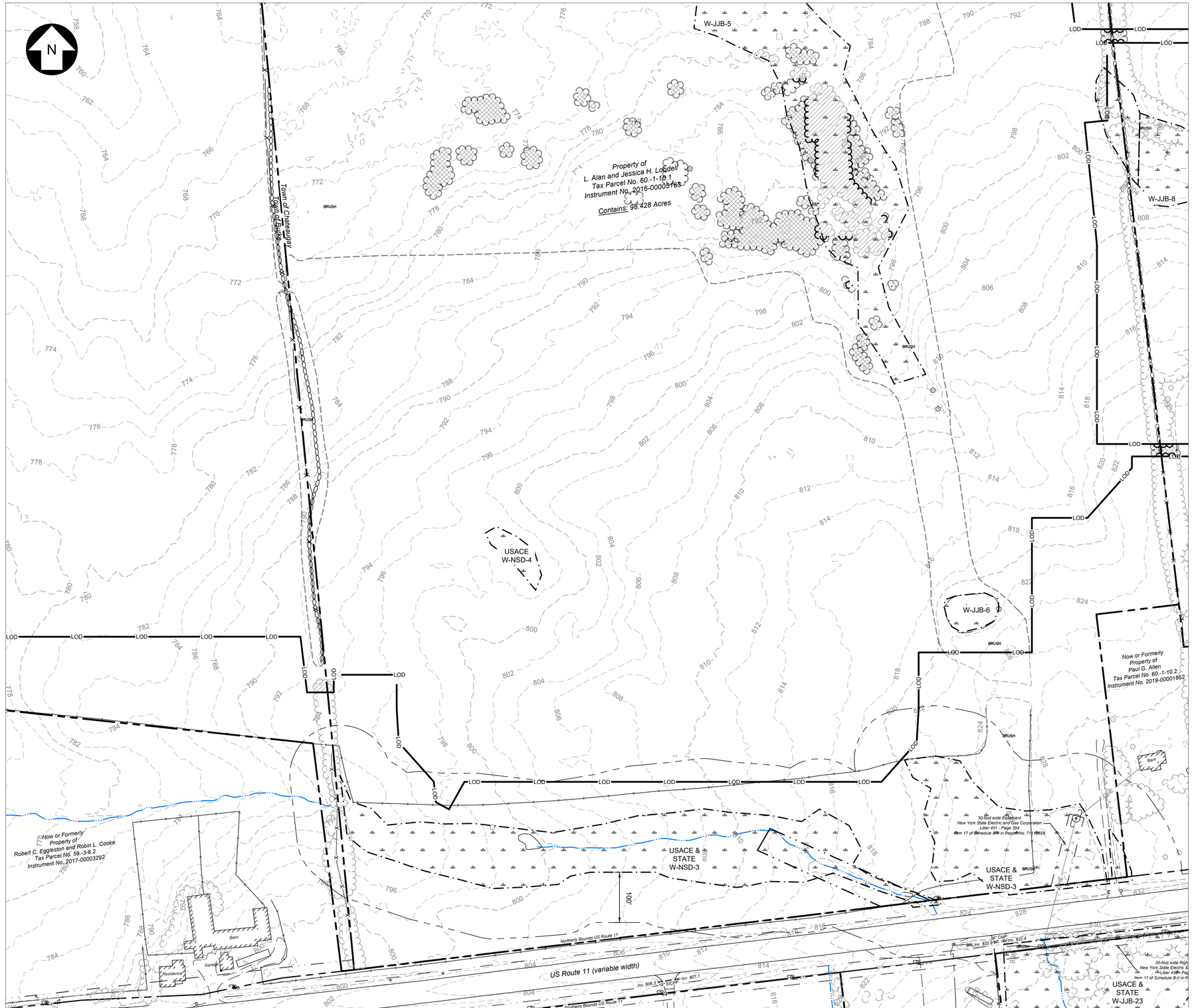
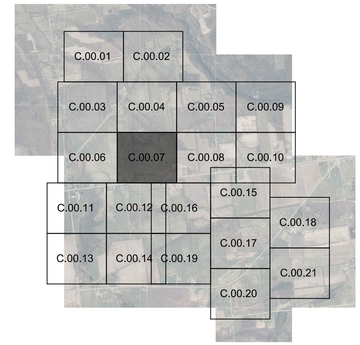



FOR CONTINUATION, SEE SHEET PV-C.00.06

FOR CONTINUATION, SEE SHEET PV-C.00.08

FOR CONTINUATION, SEE SHEET PV-C.00.12

FOR CONTINUATION, SEE SHEET PV-C.00.16

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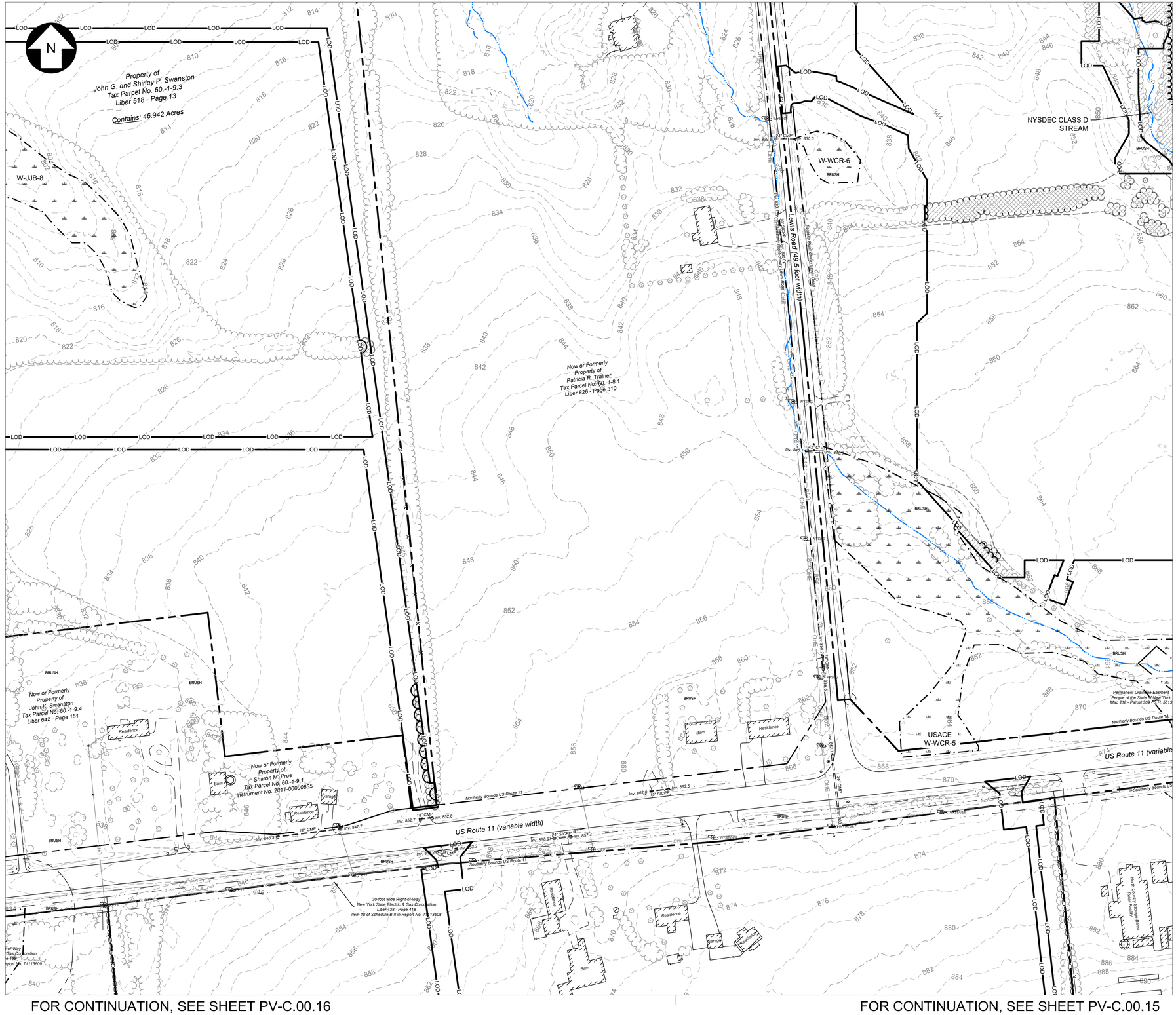
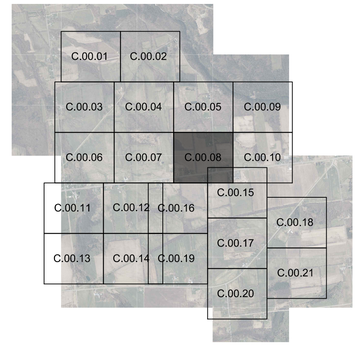
REV: 0

FOR CONTINUATION, SEE SHEET PV-C.00.05

FOR CONTINUATION, SEE SHEET PV-C.00.07

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NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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FOR CONTINUATION, SEE SHEET PV-C.00.16

FOR CONTINUATION, SEE SHEET PV-C.00.15

FOR CONTINUATION, SEE SHEET PV-C.00.10

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Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.08

REV: 0

AES Tilebock 22X34.v21031b

PLOTTED: 1/19/2022 1:34 PM
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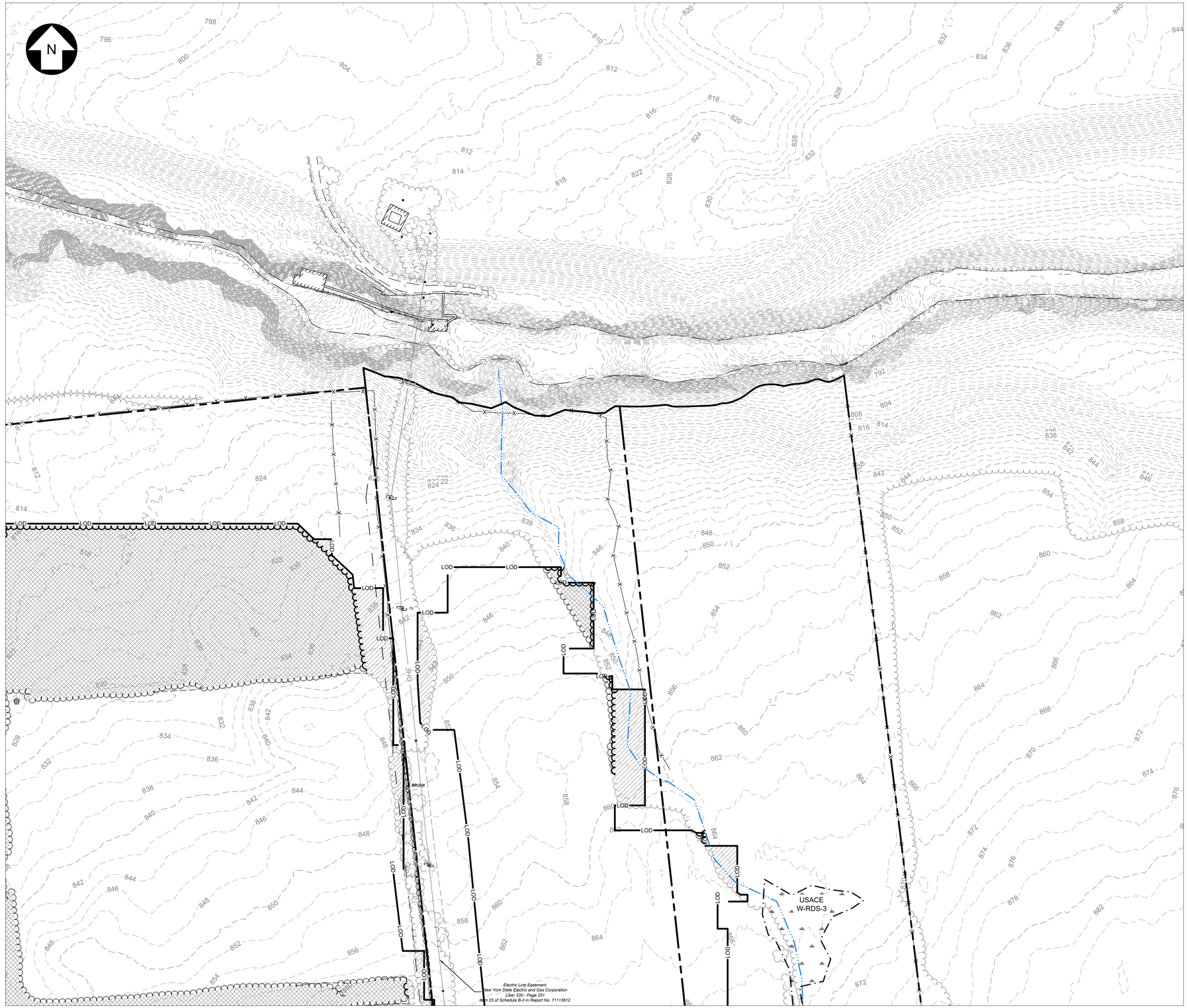
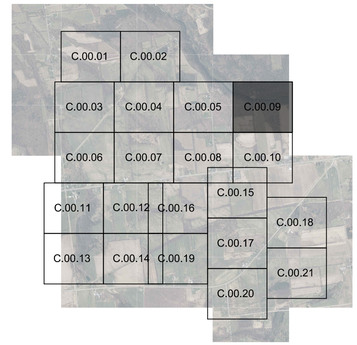



FOR CONTINUATION, SEE SHEET PV-C.00.05

FOR CONTINUATION, SEE SHEET PV-C.00.10




KEY MAP
SCALE: 1" = 3000'

LEGEND

- PROPERTY BOUNDARY
- LEASE LIMITS
- TOWN BOUNDARY
- RIGHT OF WAY
- LOD — LIMITS OF DISTURBANCE
- 598 — MINOR CONTOUR
- 600 — MAJOR CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- DRIVEWAY
- BUILDING
- CULVERT
- EXISTING WELL
- UTILITY POLE
- EXISTING VALVE
- OHE — EXISTING OVERHEAD ELECTRIC
- OHE — OVERHEAD ELECTRIC
- STREAM
- STREAM BUFFER
- CHAIN LINK FENCE
- DEMOLISH CHAIN LINK FENCE
- BARBED WIRE FENCE
- DEMOLISH BARBED WIRE FENCE
- STONE WALL
- DEMOLISH STONE WALL
- EXISTING TREELINE
- TREELINE TO BE REMOVED
- PROPOSED TREELINE
- EXISTING BRUSHLINE
- BRUSHLINE TO BE REMOVED
- PROPOSED BRUSHLINE
- FEMA ZONE A
- WATER SURFACE
- WETLAND
- TREE CLEARING
- SELECTIVE TREE CUTTING

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

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| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.09

REV: 0

PLOTTED: 1/19/2022 3:24 PM
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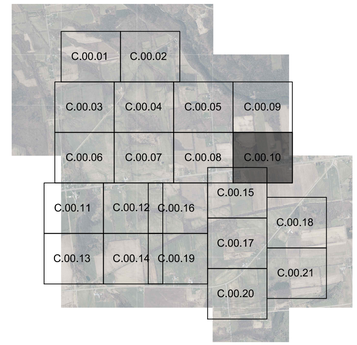
FOR CONTINUATION, SEE SHEET PV-C.00.09

FOR CONTINUATION, SEE SHEET PV-C.00.08




KEY MAP
SCALE: 1" = 3000'

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PROJECT TITLE:

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SHEET TITLE & DESCRIPTION:

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| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.10

REV: 0

AES Tilelock 22X34 v210319

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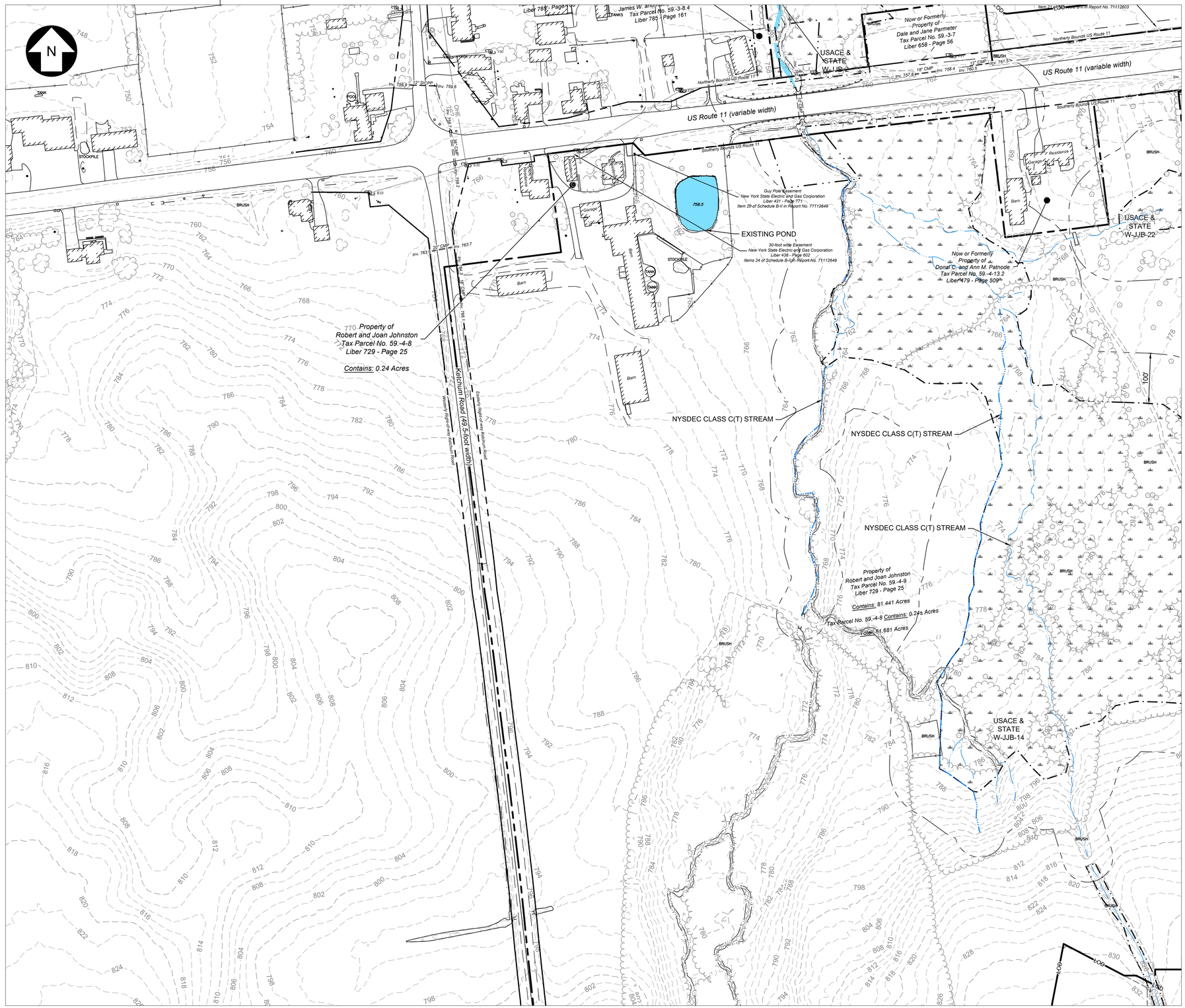
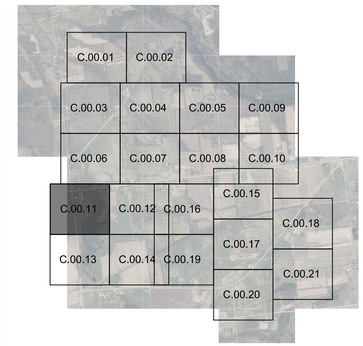
FOR CONTINUATION, SEE SHEET PV-C.00.06




FOR CONTINUATION, SEE SHEET PV-C.00.13

FOR CONTINUATION, SEE SHEET PV-C.00.12




KEY MAP
SCALE: 1" = 3000'

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PRELIMINARY
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

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| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.11

REV: 0

AES Tilebock 22X34 v210319

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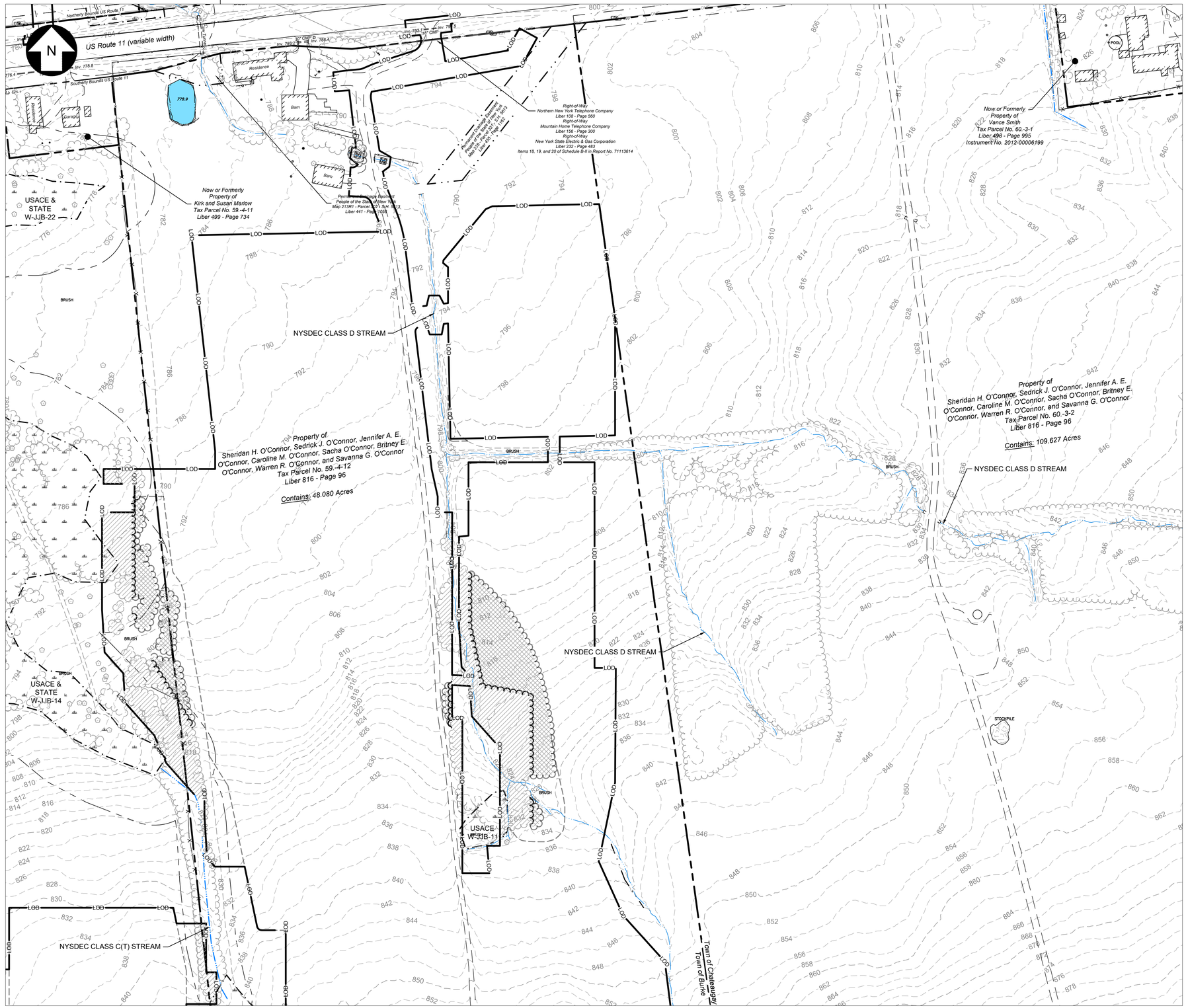
FOR CONTINUATION, SEE SHEET PV-C.00.06

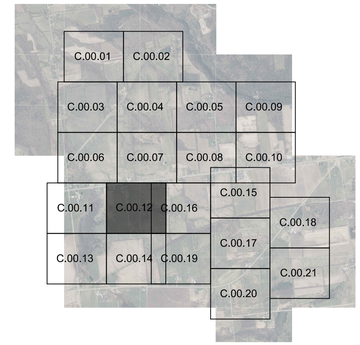
FOR CONTINUATION, SEE SHEET PV-C.00.07

FOR CONTINUATION, SEE SHEET PV-C.00.11

FOR CONTINUATION, SEE SHEET PV-C.00.16

FOR CONTINUATION, SEE SHEET PV-C.00.14




KEY MAP
SCALE: 1" = 3000'

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**PRELIMINARY**
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100 0 100 200 FT
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PROJECT TITLE:

# BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

## EXISTING CONDTIONS & CLEARING PLAN

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| PROJ NUM: | 422299 |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
1" = 100'

SHEET NO: PV-C.00.12
REV: 0

AES Tilebock 22X34 v210319
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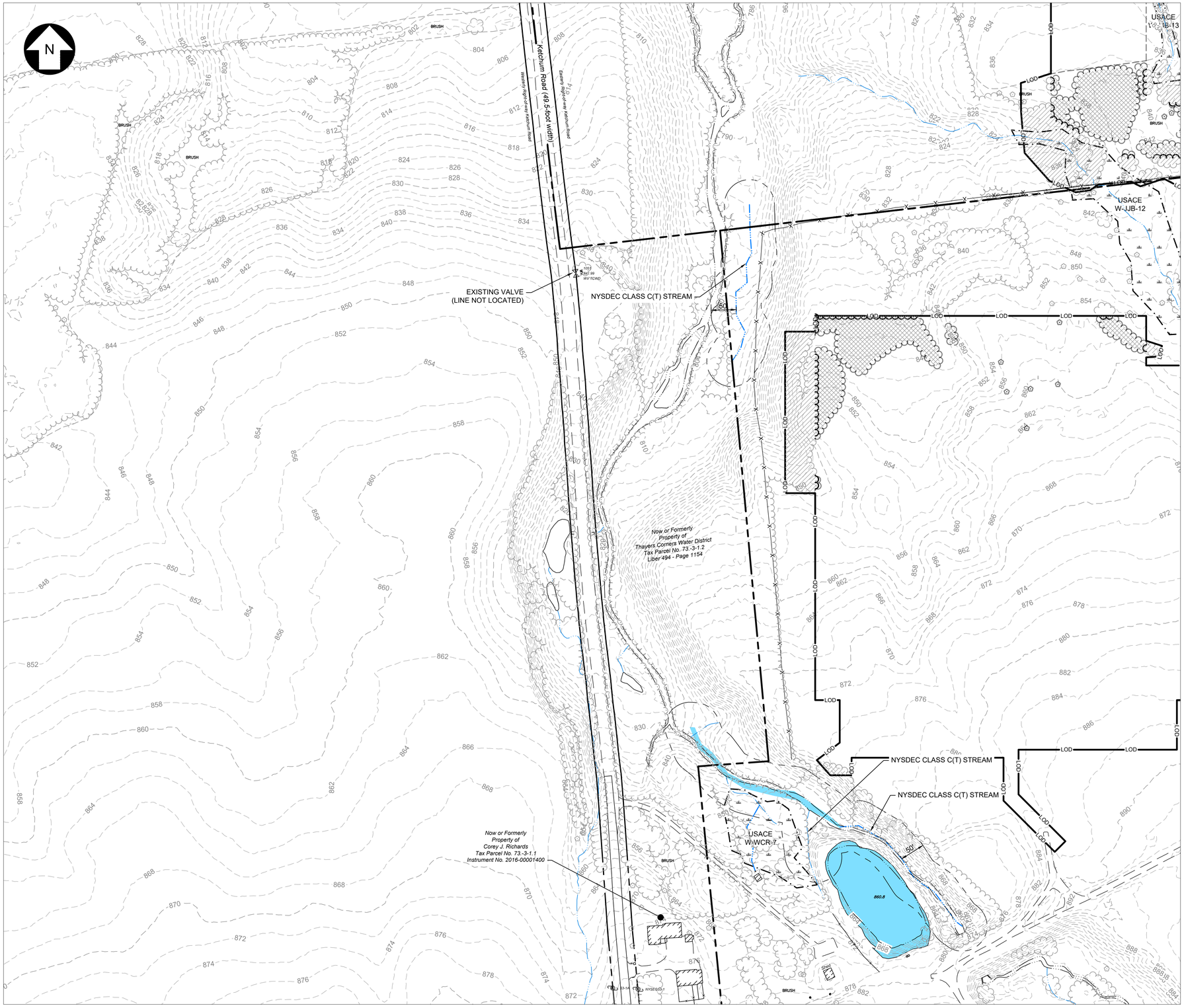
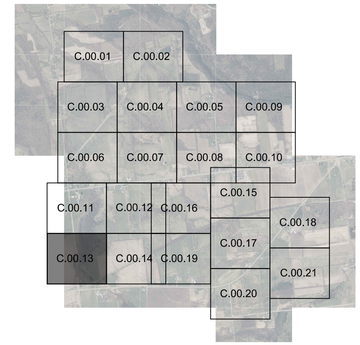
FOR CONTINUATION, SEE SHEET PV-C.00.11




FOR CONTINUATION, SEE SHEET PV-C.00.14




KEY MAP
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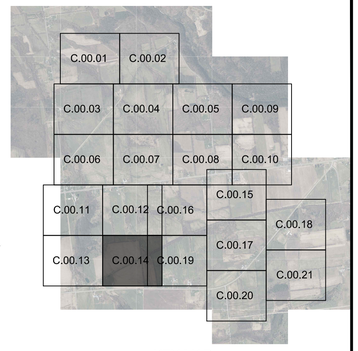
FOR CONTINUATION, SEE SHEET PV-C.00.19




KEY MAP
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|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.14

REV: 0

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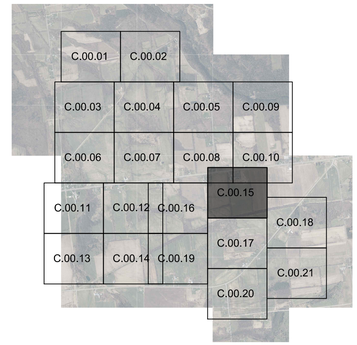
AES Tilebloc 22X34 v210319




KEY MAP
SCALE: 1" = 3000'

## LEGEND

- PROPERTY BOUNDARY
- LEASE LIMITS
- TOWN BOUNDARY
- RIGHT OF WAY
- LOD — LIMITS OF DISTURBANCE
- 598 — MINOR CONTOUR
- 600 — MAJOR CONTOUR
- PAVED ROAD
- GRAVEL ROAD
- DRIVEWAY
- BUILDING
- CULVERT
- EXISTING WELL
- UTILITY POLE
- EXISTING VALVE
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- BRUSHLINE TO BE REMOVED
- PROPOSED BRUSHLINE
- FEMA ZONE A
- WATER SURFACE
- WETLAND
- TREE CLEARING
- SELECTIVE TREE CUTTING

Dig Safely. New York
Call 811
before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDTIONS & CLEARING PLAN

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| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.15
REV: 0

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FOR CONTINUATION, SEE SHEET PV-C.00.07

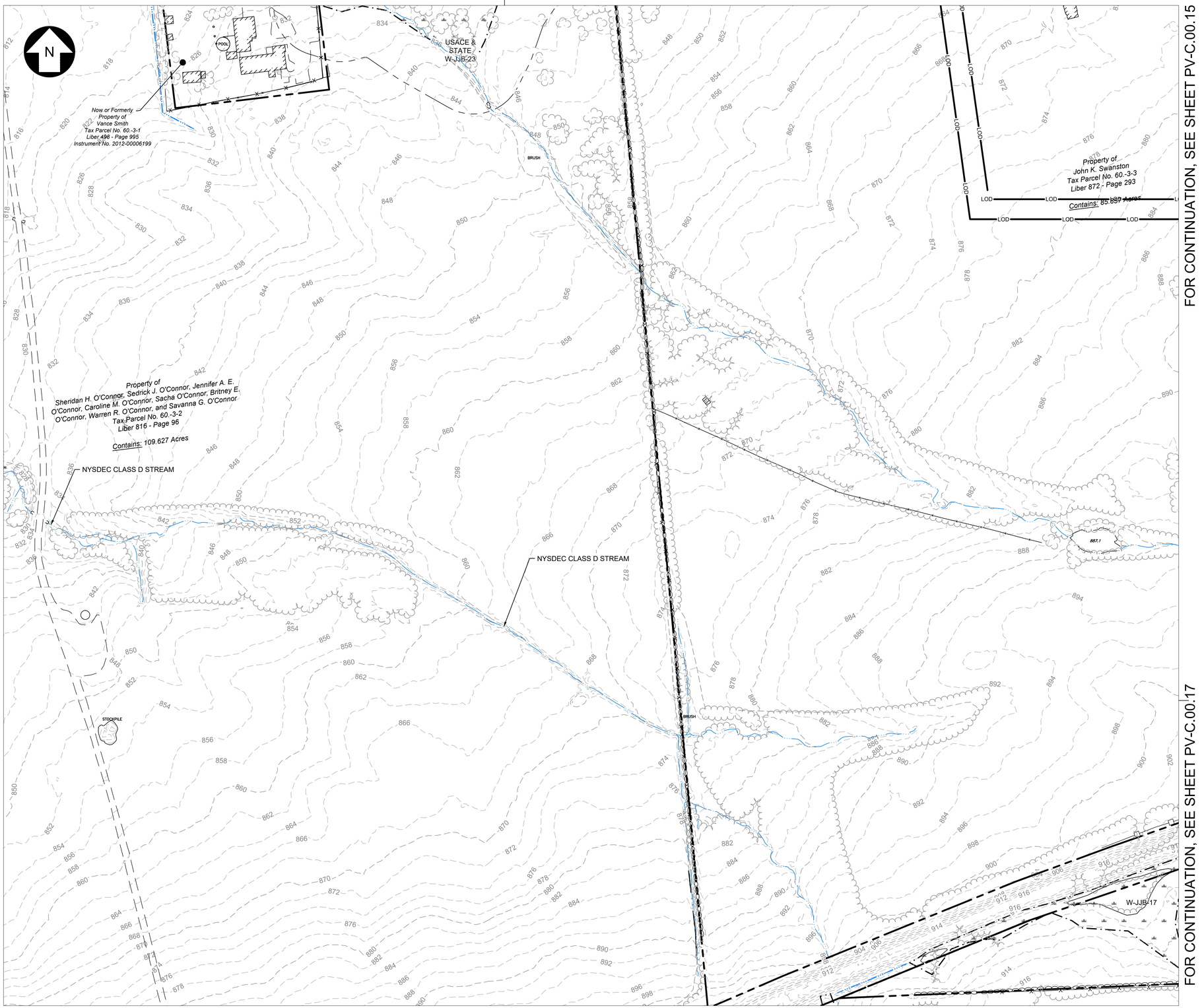
FOR CONTINUATION, SEE SHEET PV-C.00.08

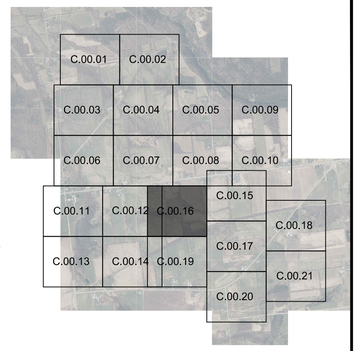
FOR CONTINUATION, SEE SHEET PV-C.00.12

FOR CONTINUATION, SEE SHEET PV-C.00.15

FOR CONTINUATION, SEE SHEET PV-C.00.17

FOR CONTINUATION, SEE SHEET PV-C.00.19




KEY MAP
SCALE: 1" = 3000'

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

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| PROJ NUM: | 422299 |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.16

REV: 0

FOR CONTINUATION, SEE SHEET PV-C.00.15

FOR CONTINUATION, SEE SHEET PV-C.00.16

FOR CONTINUATION, SEE SHEET PV-C.00.18

FOR CONTINUATION, SEE SHEET PV-C.00.19

FOR CONTINUATION, SEE SHEET PV-C.00.21

FOR CONTINUATION, SEE SHEET PV-C.00.20

N

W-JJB-17

Property of
Gregoire Farms Inc.
Tax Parcel No. 60.-3-20.2
Instrument No. 2018-00000626

Contains: 54.202 Acres

Electric Line Easement
New York State Electric and Gas Corporation
Liber 332 - Page 403
Item 16 of Schedule B-II in Report No. 71113604

Electric Line Easement
New York State Electric and Gas Corporation
Liber 332 - Page 409
Item 17 of Schedule B-II in Report No. 71113604

Electric Line Easement
New York State Electric and Gas Corporation
Liber 332 - Page 393
Item 18 of Schedule B-II in Report No. 71113603

33-foot wide Easement
The County of Franklin
Liber 431 - Page 438
Item 19 of Schedule B-II in Report No. 7111

Property of
Kenneth J and Rosemary E. Green
Tax Parcel No. 74.-1-4
Instrument No. 2006-00002517

Contains: 51.752 Acres

30-foot wide Easement
New York State Electric and Gas Corporation
Liber 439 - Page 121
Item 24 of Schedule B-II in Report No. 71112670-1

Property of
Gregoire Farm, Inc.
Tax Parcel No. 74.-1-5.3
Instrument No. 2018-00000626

Deed Lines - Tax Parcel 74.-1-7
Steven R. and Carolyn M. Brown
Liber 546 - Page 609

Occupation Lines - Tax Parcels: 74.-1-7 and 74.-1-5.2
The description in Liber 546 - Page 609 describes the parallelogram shaped parcel shown by the shaded deed lines. The dashed line is showing the occupation line by the landowners. The deed for Tax Parcel 74.-1-5.2 appears to be following the occupation lines and has created overlapping title. There should be a boundary line adjustment to resolve the title issues.

Now or Formerly
Property of
Timothy D. Porter
Tax Parcel No. 74.-2-1.1
Instrument No. 2007-00004406

County Route 23 (66-foot width)

30-foot wide Easement
New York State Electric and Gas Corporation
Liber 662 - Page 148
Item 23 of Schedule B-II in Report No. 71112670-1

33-foot wide Easement
The County of Franklin
Liber 431 - Page 438
Item 22 of Schedule B-II in Report No. 71114510

## KEY MAP

SCALE: 1" = 3000'

C.00.01 C.00.02
C.00.03 C.00.04 C.00.05 C.00.09
C.00.06 C.00.07 C.00.08 C.00.10
C.00.11 C.00.12 C.00.16 C.00.15 C.00.18
C.00.13 C.00.14 C.00.19 C.00.17 C.00.21
C.00.20

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100 0 100 200 FT
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KEY PLAN:

REVISIONS:

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.00.17

REV: 0

AES Tilebock 22X34 v2103019

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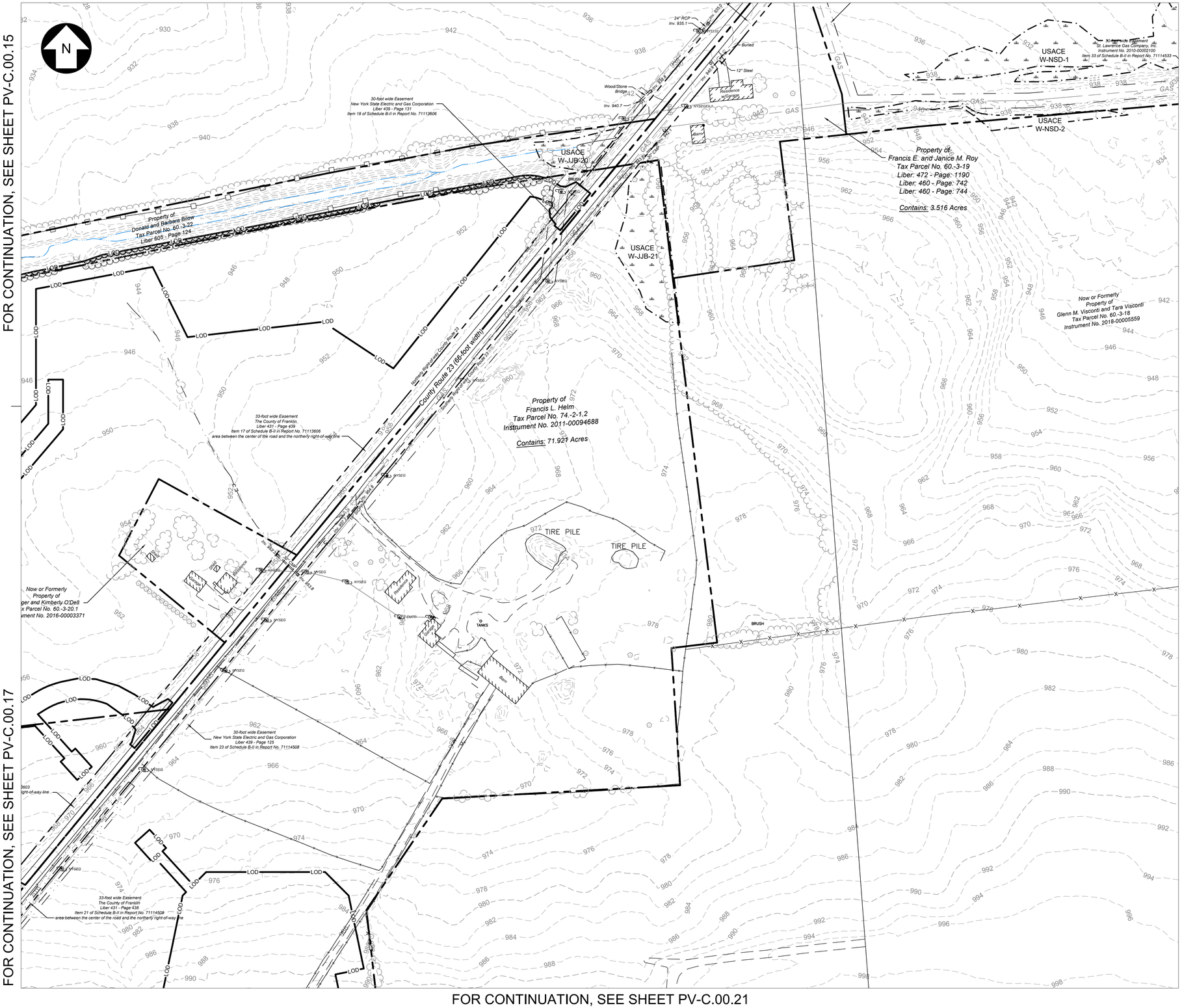
FOR CONTINUATION, SEE SHEET PV-C.00.15


N
30-foot wide Easement
New York State Electric and Gas Corporation
Liber 439 - Page 131
Item 18 of Schedule B-II in Report No. 71113606
USACE
W-JJP-20
USACE
W-JJB-21
USACE
W-NSD-1
USACE
W-NSD-2
30-foot wide Easement
St. Lawrence Gas Company, Inc.
Instrument No. 2010-00002100
Item 33 of Schedule B-II in Report No. 71114533
Property of
Donald and Barbara Bilow
Tax Parcel No. 60.-3-22
Liber 605 - Page 124
Property of
Francis L. Helm
Tax Parcel No. 74.-2-1.2
Instrument No. 2011-00094688
Contains: 71.927 Acres
Property of
Francis E. and Janice M. Roy
Tax Parcel No. 60.-3-19
Liber: 472 - Page: 1190
Liber: 460 - Page: 742
Liber: 460 - Page: 744
Contains: 3.516 Acres
Now or Formerly
Property of
Glenn M. Visconti and Tara Visconti
Tax Parcel No. 60.-3-18
Instrument No. 2018-00005559
County Route 23 (66-foot width)
33-foot wide Easement
The County of Franklin
Liber 431 - Page 439
Item 17 of Schedule B-II in Report No. 71113606
area between the center of the road and the northerly right-of-way line
33-foot wide Easement
The County of Franklin
Liber 431 - Page 438
Item 21 of Schedule B-II in Report No. 71114508
area between the center of the road and the northerly right-of-way line
30-foot wide Easement
New York State Electric and Gas Corporation
Liber 439 - Page 125
Item 23 of Schedule B-II in Report No. 71114508
TIRE PILE
TIRE PILE
TANKS
Residence w/Garage
Residence
Garage
Barn
Shed
Silo
Milkhouse
Wood/Stone Bridge
24" RCP
Inv. 935.1
Inv. 940.7
Inv. 940.8
Inv. 941.1
Inv. 941.2
Inv. 941.3
Inv. 941.4
Inv. 941.5
Inv. 941.6
Inv. 941.7
Inv. 941.8
Inv. 942.0
Inv. 942.1
Inv. 942.2
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Inv. 942.6
Inv. 942.7
Inv. 942.8
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Inv. 943.1
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Inv. 943.3
Inv. 943.4
Inv. 943.5
Inv. 943.6
Inv. 943.7
Inv. 943.8
Inv. 944.0
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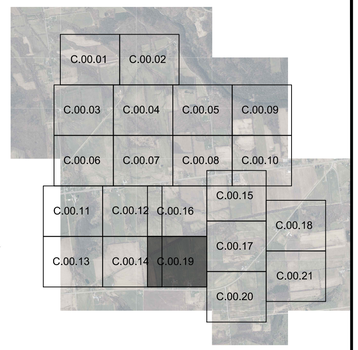
FOR CONTINUATION, SEE SHEET PV-C.00.16

FOR CONTINUATION, SEE SHEET PV-C.00.14

FOR CONTINUATION, SEE SHEET PV-C.00.17

FOR CONTINUATION, SEE SHEET PV-C.00.20




KEY MAP
SCALE: 1" = 3000'

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SHEET NO: PV-C.00.19

REV: 0

AES Tilebock 22X34 v012019

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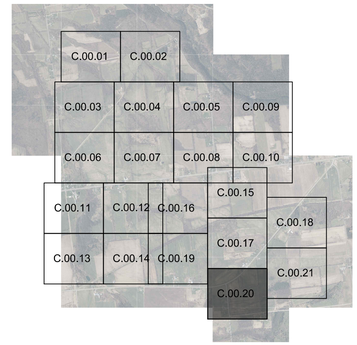
FOR CONTINUATION, SEE SHEET PV-C.00.17

FOR CONTINUATION, SEE SHEET PV-C.00.19

FOR CONTINUATION, SEE SHEET PV-C.00.21

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SHEET NO: PV-C.00.20

REV: 0

AES Tilelock 22X34 (4/20/19)

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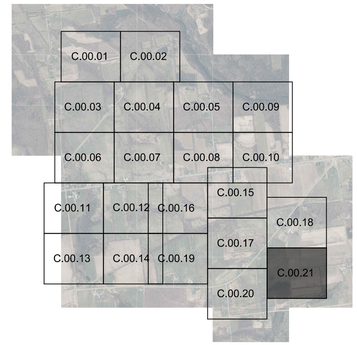
FOR CONTINUATION, SEE SHEET PV-C.00.18

FOR CONTINUATION, SEE SHEET PV-C.00.17

FOR CONTINUATION, SEE SHEET PV-C.00.20

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- EXISTING WELL
- UTILITY POLE
- EXISTING VALVE
- OHE — EXISTING OVERHEAD ELECTRIC
- OHE — OVERHEAD ELECTRIC
- STREAM
- STREAM BUFFER
- CHAIN LINK FENCE
- DEMOLISH CHAIN LINK FENCE
- BARBED WIRE FENCE
- DEMOLISH BARBED WIRE FENCE
- STONE WALL
- DEMOLISH STONE WALL
- EXISTING TREELINE
- TREELINE TO BE REMOVED
- PROPOSED TREELINE
- EXISTING BRUSHLINE
- BRUSHLINE TO BE REMOVED
- PROPOSED BRUSHLINE
- FEMA ZONE A
- WATER SURFACE
- WETLAND
- TREE CLEARING
- SELECTIVE TREE CUTTING

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EXISTING CONDITIONS & CLEARING PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.00.21 | 0 |

PLOTTED: 1/19/2022 3:33 PM
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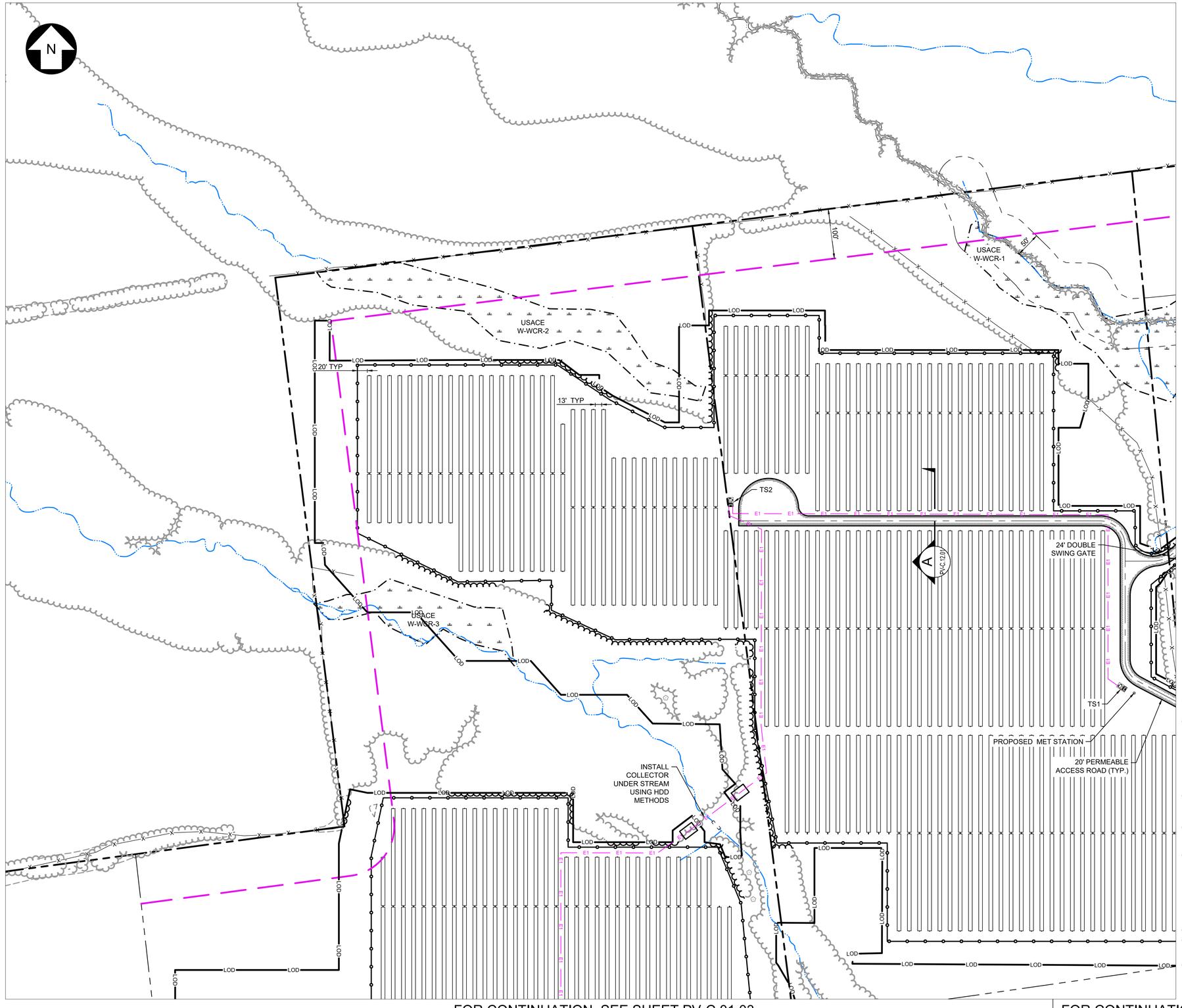
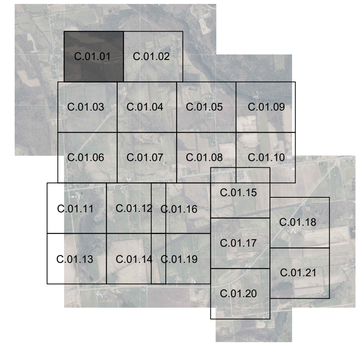
AES Tilelock 22X34 v210319




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

FOR CONTINUATION, SEE SHEET PV-C.01.02

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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FOR CONTINUATION, SEE SHEET PV-C.01.03

FOR CONTINUATION, SEE SHEET PV-C.01.04

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DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

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|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

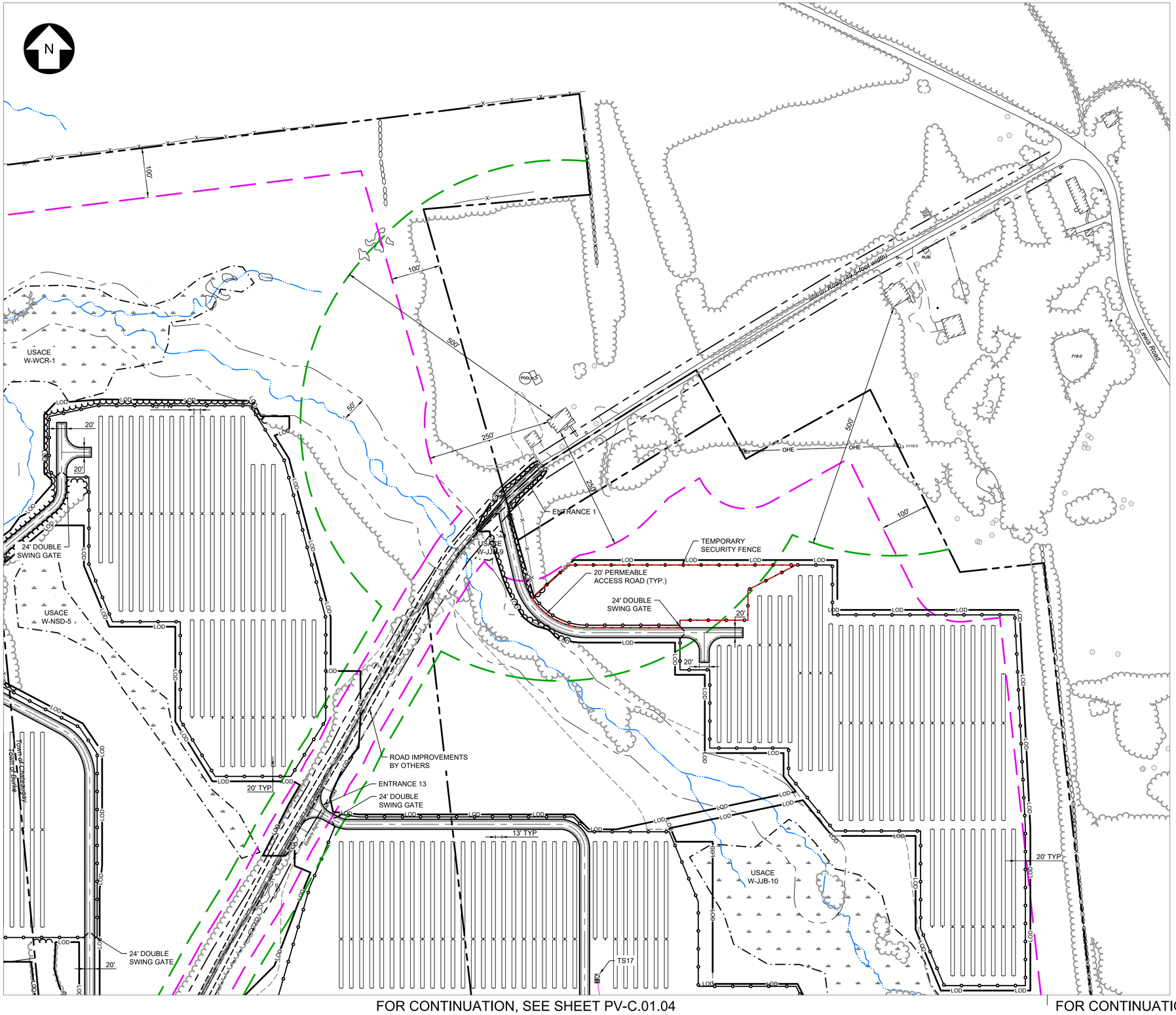
SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.01
REV: 0

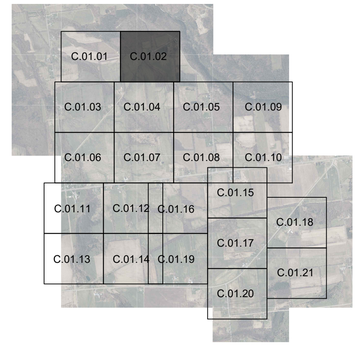
AES Tilebock 22X34 v210319

FOR CONTINUATION, SEE SHEET PV-C.01.01




FOR CONTINUATION, SEE SHEET PV-C.01.04

FOR CONTINUATION, SEE SHEET PV-C.01.05




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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|---|---|
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
1" = 100'

SHEET NO: PV-C.01.02
REV: 0

PLOTTED: 1/19/2022 3:34 PM
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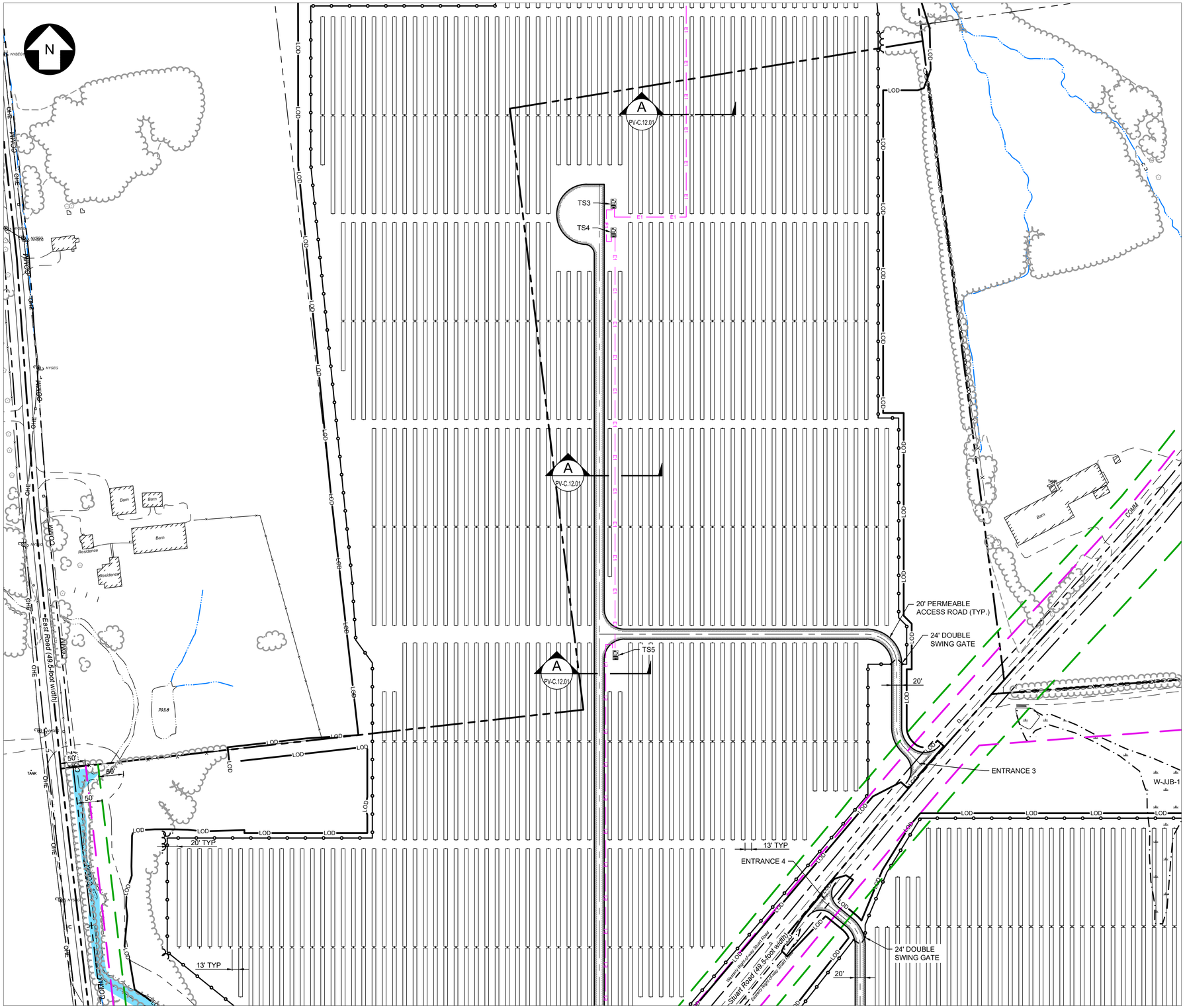
FOR CONTINUATION, SEE SHEET PV-C.01.01



FOR CONTINUATION, SEE SHEET PV-C.01.01

FOR CONTINUATION, SEE SHEET PV-C.01.02

FOR CONTINUATION, SEE SHEET PV-C.01.03

FOR CONTINUATION, SEE SHEET PV-C.01.05

FOR CONTINUATION, SEE SHEET PV-C.01.07

N

20' PERMEABLE ACCESS ROAD (TYP.)

20'

ROAD IMPROVEMENTS BY OTHERS

ENTRANCE 2

Garage

Garage

Tank

Residence

Shed

COMM

Shuert Road (+/-) 5-foot width

Variable Right-of-way (Shuert Road)

Variable Right-of-way (Shuert Road)

USACE W-JJB-4

USACE W-JJB-10

W-JJB-

W-JJB-5

LOD

SF

E3

TS18

TS19

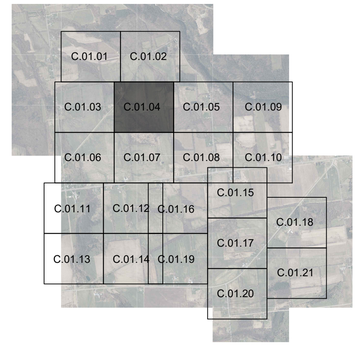
TS20

A

PV-C.12.01

20' TYP

13' TYP




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.04

REV: 0

AES Tilebock 22X34 v210319

PLOTTED: 1/19/2022 4:52 PM
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DATE: d:\d86960\d22299-84\SECAD\TILE\SHEETS.dwg

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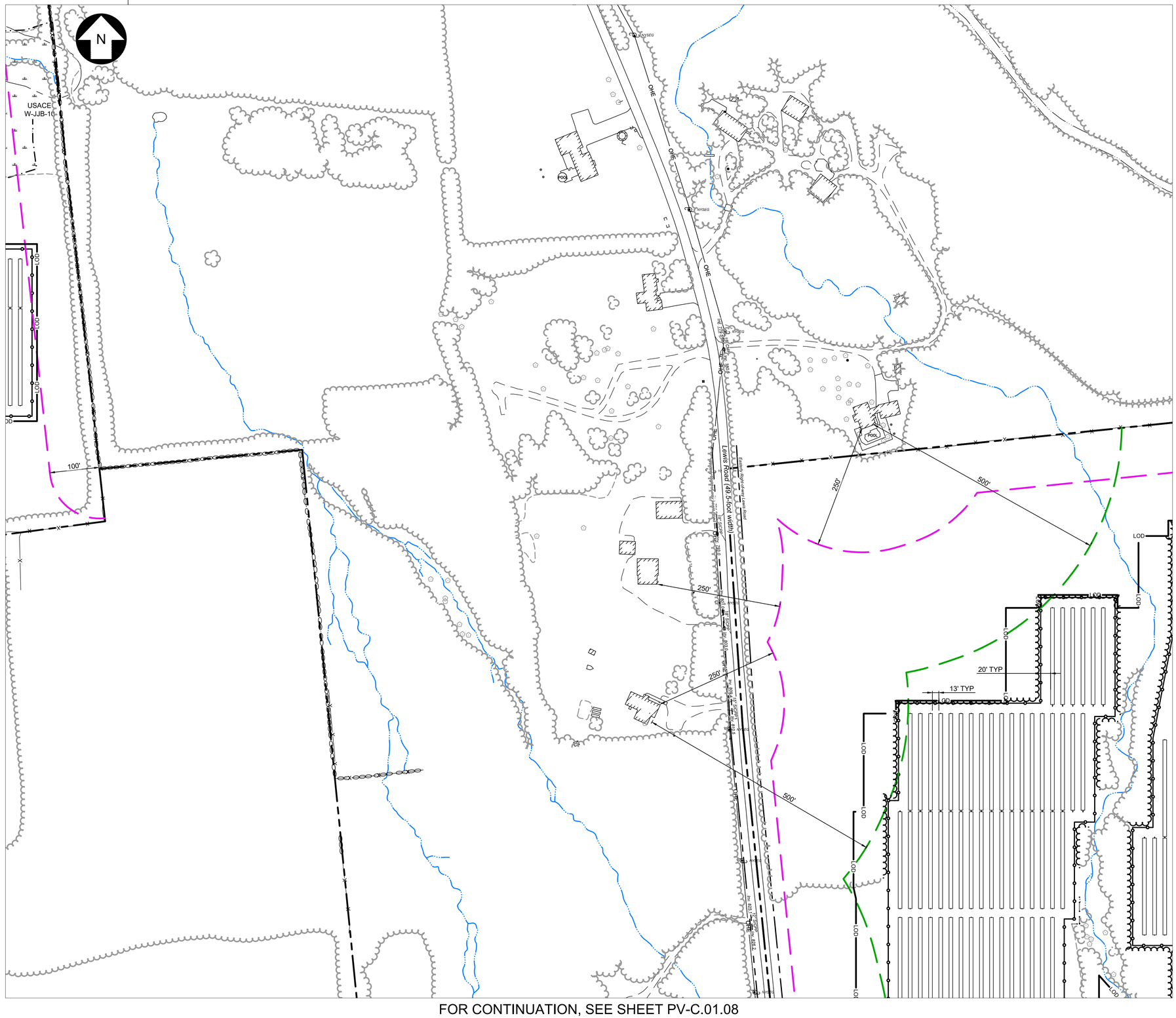
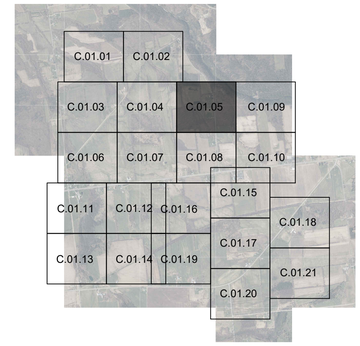
FOR CONTINUATION, SEE SHEET PV-C.01.02




FOR CONTINUATION, SEE SHEET PV-C.01.04

FOR CONTINUATION, SEE SHEET PV-C.01.09




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.05

REV: 0

AES Tilelock 22X34 v210319

PLOTTED: 1/19/2022 3:35 PM
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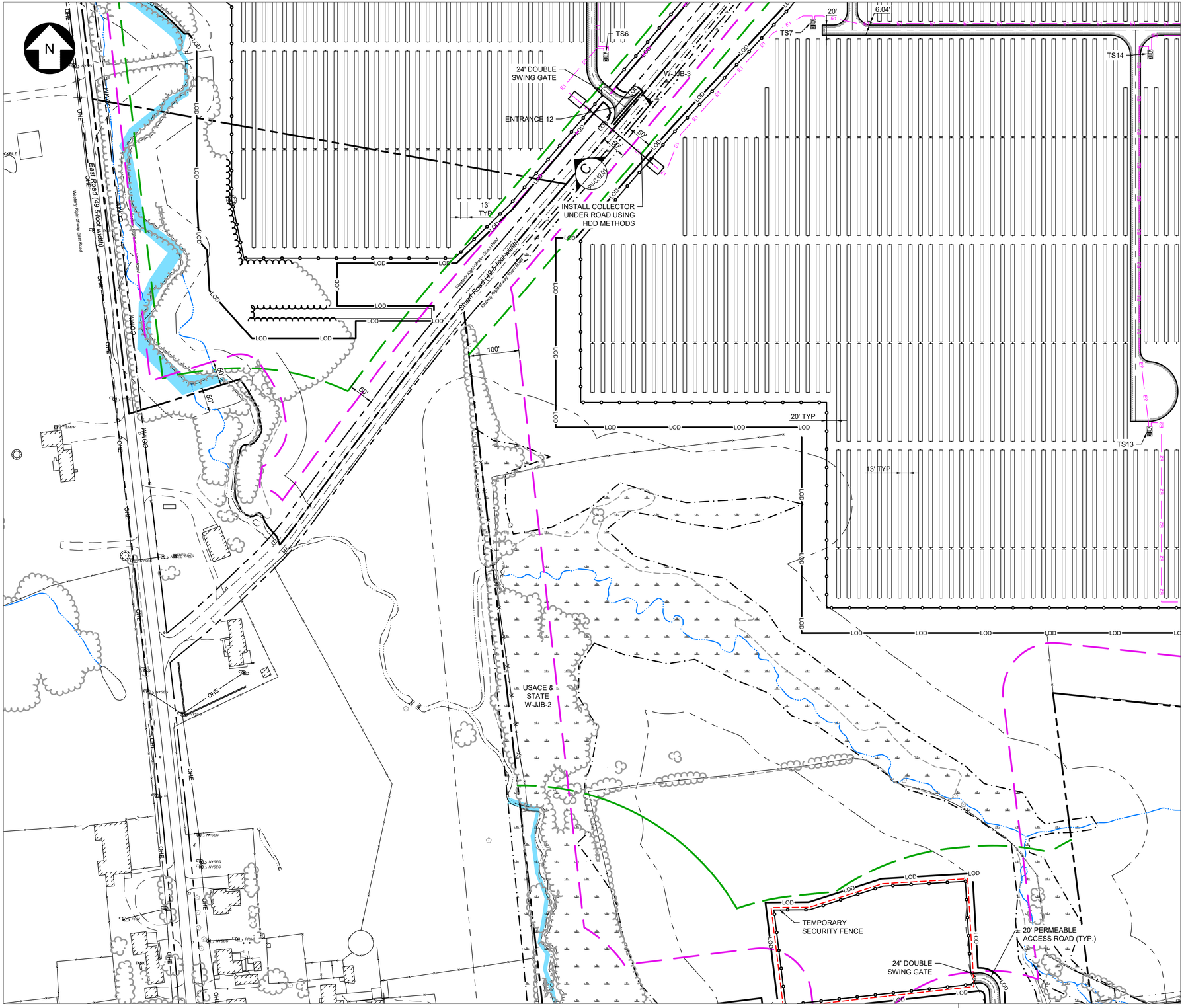
FOR CONTINUATION, SEE SHEET PV-C.01.03



FOR CONTINUATION, SEE SHEET PV-C.01.04

FOR CONTINUATION, SEE SHEET PV-C.01.06

FOR CONTINUATION, SEE SHEET PV-C.01.12

FOR CONTINUATION, SEE SHEET PV-C.01.16

FOR CONTINUATION, SEE SHEET PV-C.01.08

20' TS8

20' PERMEABLE ACCESS ROAD (TYP.)

W-JJB-5

TS15

20'

TS16

B PV-C.12.01

G PV-C.12.01

F PV-C.12.01

C PV-C.12.01

Town of Chateaugay

Town of Burke

USACE W-NSD-4

W-JJB-8

W-JJB-6

20' TYP

13' TYP

100'

500'

250'

USACE & STATE W-NSD-3

USACE & STATE W-NSD-3

USACE & STATE W-JJB-23

INSTALL COLLECTOR UNDER ROAD USING HDD METHODS

Northerly Bounds US Route 11

Southerly Bounds US Route 11

US Route 11 (variable width)

Barn

Garage

Residence

LOD

E1 E2 E3

## KEY MAP

SCALE: 1" = 3000'

C.01.01 C.01.02 C.01.03 C.01.04 C.01.05 C.01.09 C.01.06 C.01.07 C.01.08 C.01.10 C.01.11 C.01.12 C.01.16 C.01.15 C.01.18 C.01.17 C.01.13 C.01.14 C.01.19 C.01.21 C.01.20

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
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| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
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| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT

SCALE: 1" = 100'

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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

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PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.01.07 | 0 |

AES Tilebock 22X34 v210319

PLOTTED: 1/19/2022 1:36 PM
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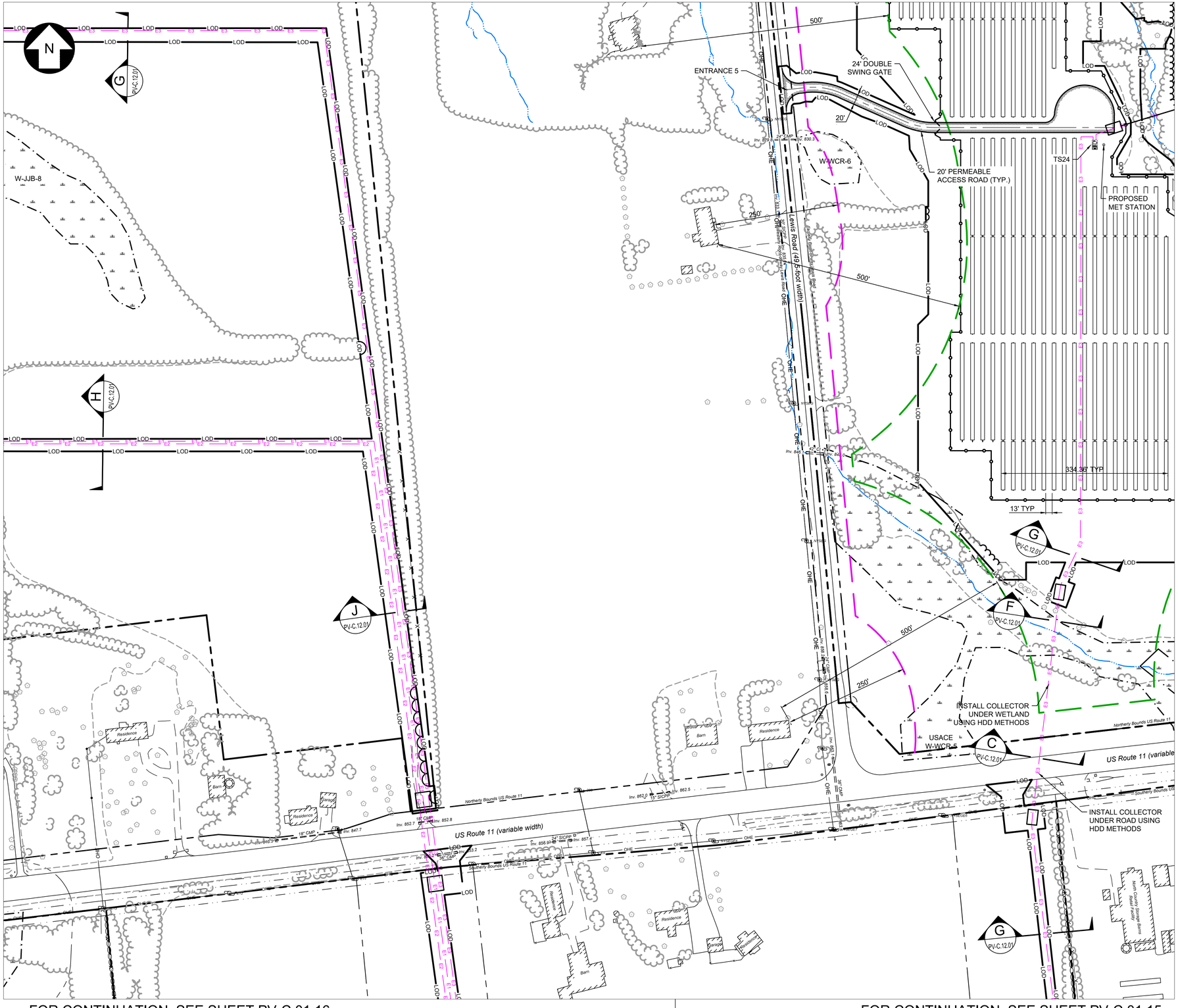
FOR CONTINUATION, SEE SHEET PV-C.01.05

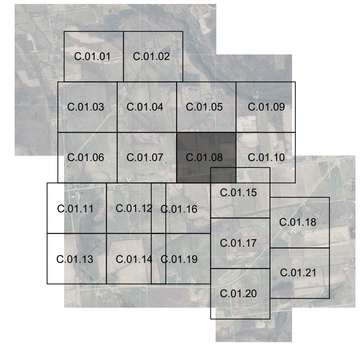



FOR CONTINUATION, SEE SHEET PV-C.01.07

FOR CONTINUATION, SEE SHEET PV-C.01.10

FOR CONTINUATION, SEE SHEET PV-C.01.16

FOR CONTINUATION, SEE SHEET PV-C.01.15




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

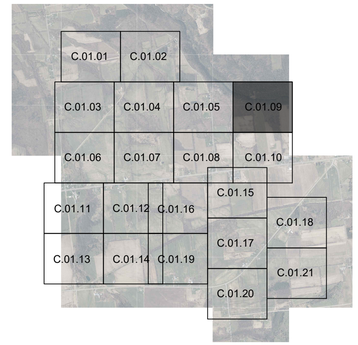
1" = 100'

SHEET NO: PV-C.01.08
REV: 0




FOR CONTINUATION, SEE SHEET PV-C.01.05

FOR CONTINUATION, SEE SHEET PV-C.01.10




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| | |
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| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.09

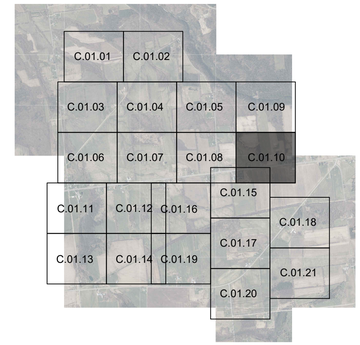
REV: 0

FOR CONTINUATION, SEE SHEET PV-C.01.09

FOR CONTINUATION, SEE SHEET PV-C.01.08

FOR CONTINUATION, SEE SHEET PV-C.01.15




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.01.10 | 0 |

AES Tilelock 22X34 v210319
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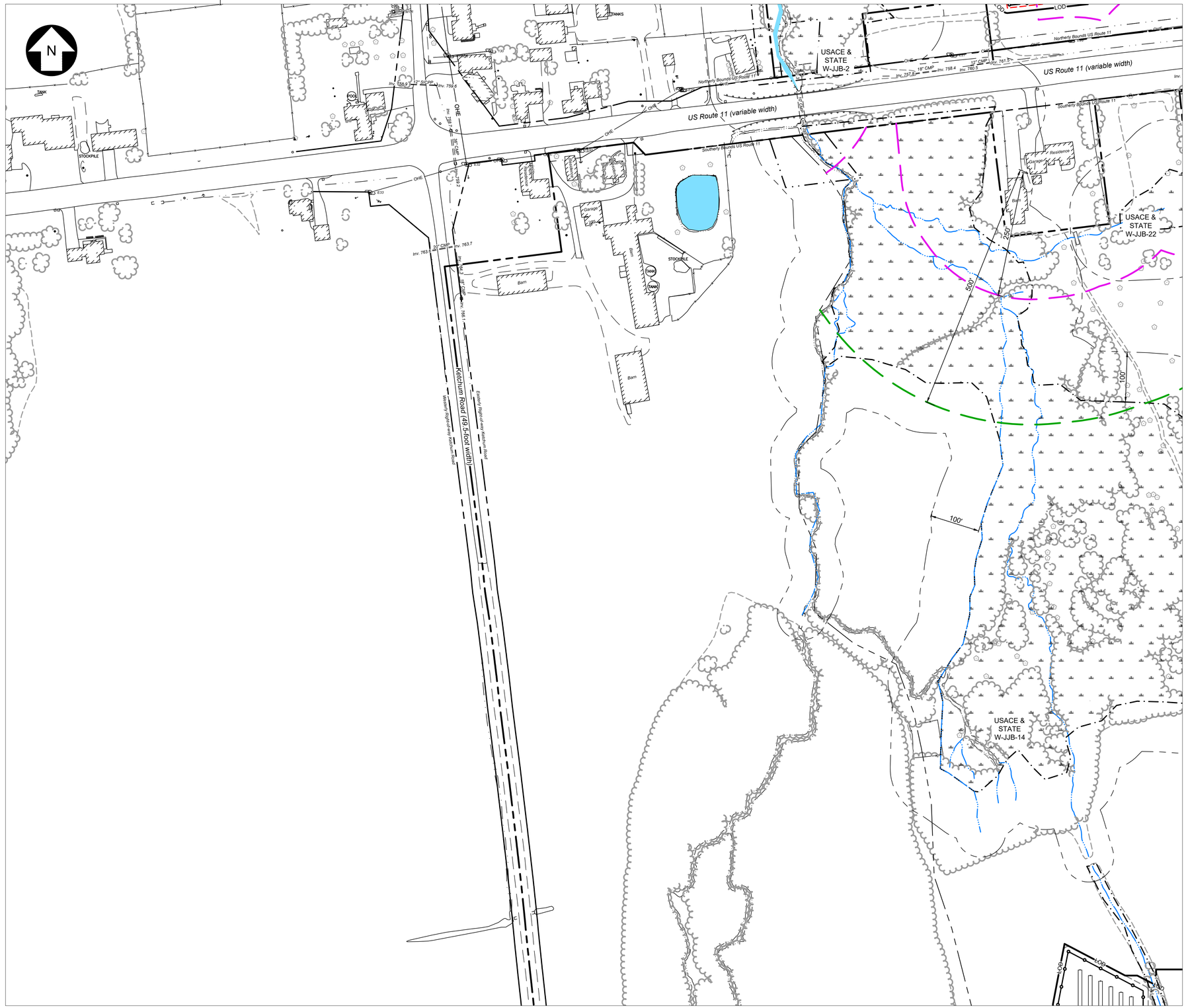
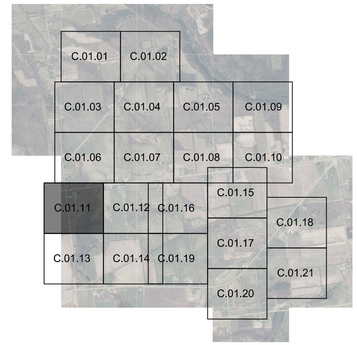
FOR CONTINUATION, SEE SHEET PV-C.01.06




FOR CONTINUATION, SEE SHEET PV-C.01.13

FOR CONTINUATION, SEE SHEET PV-C.01.12




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

----

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.01.11 | 0 |

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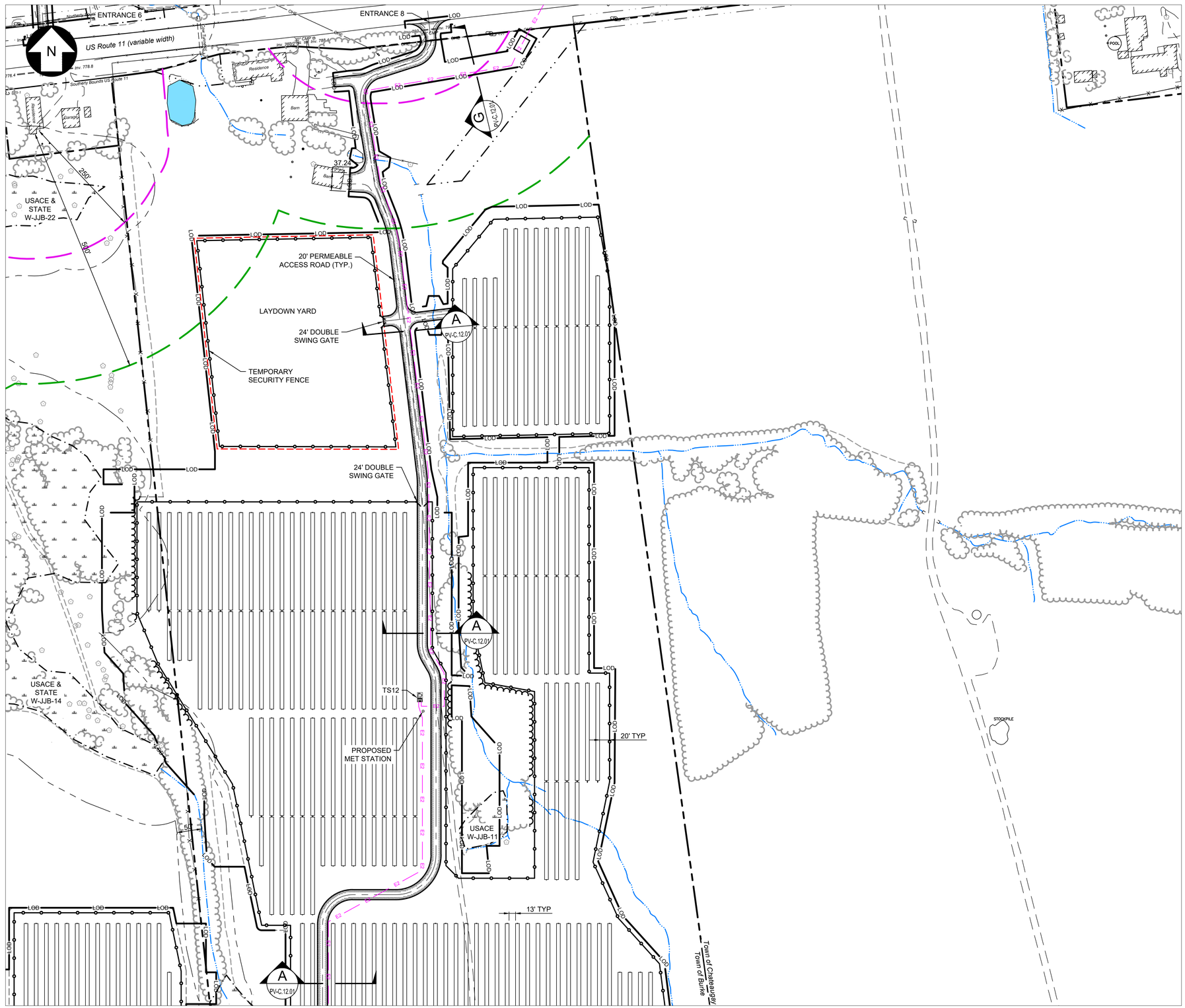
XREFs: x:\d\8\8980\422299-BASE-CIVIL SHEETS.dwg x:\d\8\8980\422299-BASE-NATURAL RESOURCES.dwg x:\d\8\8980\422299-BASE-PV LAYOUT.dwg x:\d\8\8980\422299-BASE-LAYOUT.dwg x:\d\8\8980\422299-BASE-TRANS LAYOUT.dwg x:\d\8\8980\422299-BASE-COLLECTION.dwg x:\d\8\8980\422299-BASE-AERIAL.dwg
AES Titleblock 22X34 v210319

FOR CONTINUATION, SEE SHEET PV-C.01.06

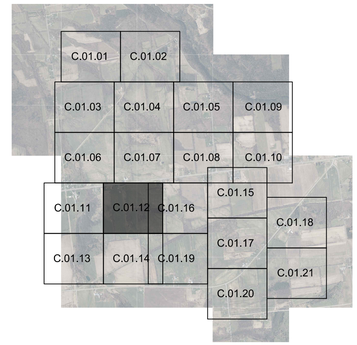
FOR CONTINUATION, SEE SHEET PV-C.01.07




FOR CONTINUATION, SEE SHEET PV-C.01.11

FOR CONTINUATION, SEE SHEET PV-C.01.16

FOR CONTINUATION, SEE SHEET PV-C.01.14




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
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| | COLLECTOR LINE | E1 |
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| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| PROJ NUM: | 422299 |
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| DWN: | C. WINTERMUTE |
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| APV: | - |
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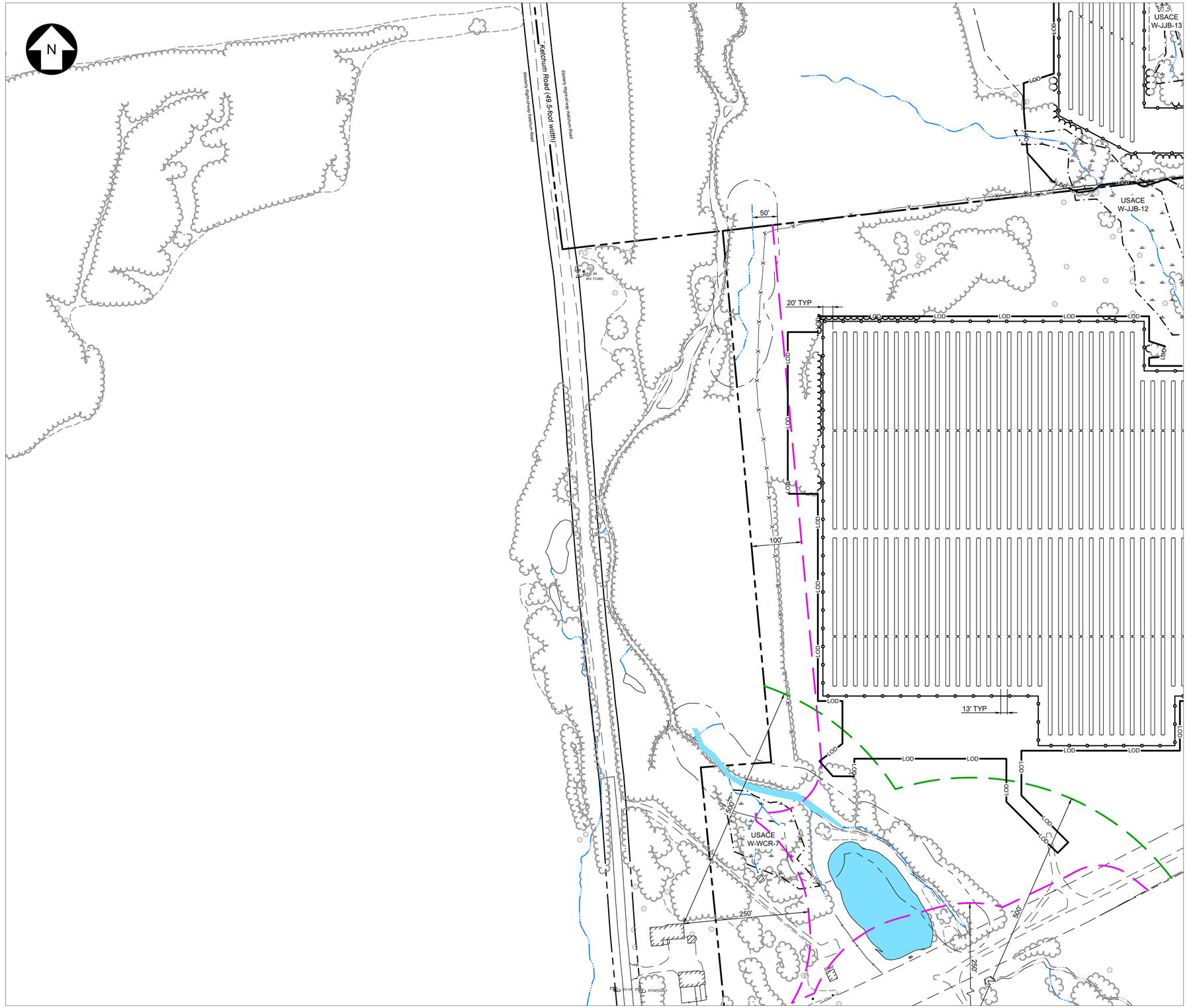
SCALE AT 22" x 34":

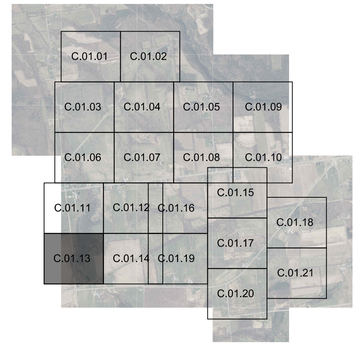
1" = 100'

SHEET NO: PV-C.01.12

REV: 0

FOR CONTINUATION, SEE SHEET PV-C.01.11




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
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| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
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| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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|---|---|---|
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| APV: | - |
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SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.13
REV: 0

AES Tilelock 22X34.v210319
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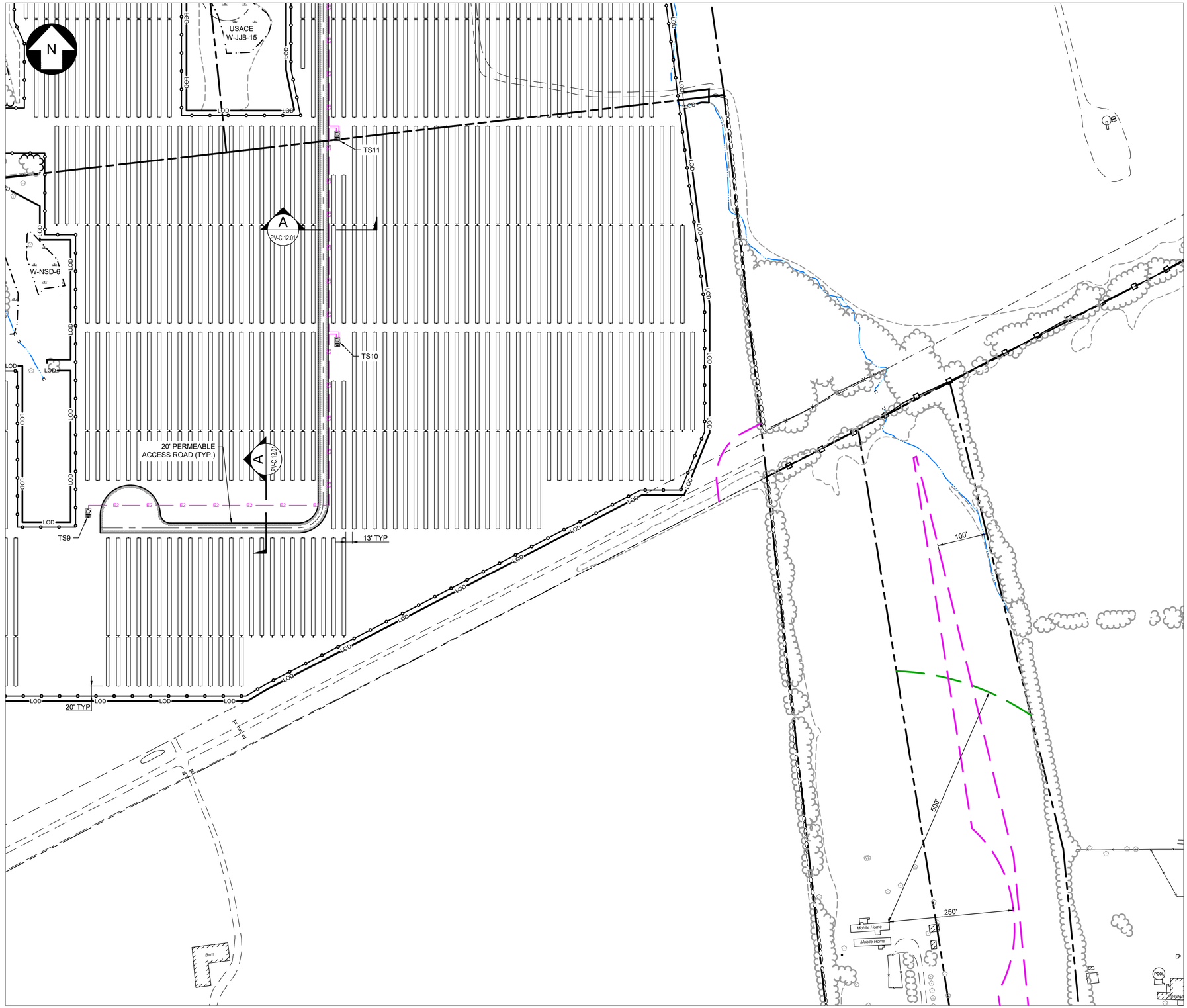
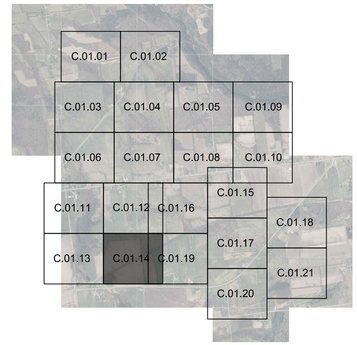
FOR CONTINUATION, SEE SHEET PV-C.01.12




FOR CONTINUATION, SEE SHEET PV-C.01.13

FOR CONTINUATION, SEE SHEET PV-C.01.19




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| LOD | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
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| - | - | - |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
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| PV-C.01.14 | 0 |

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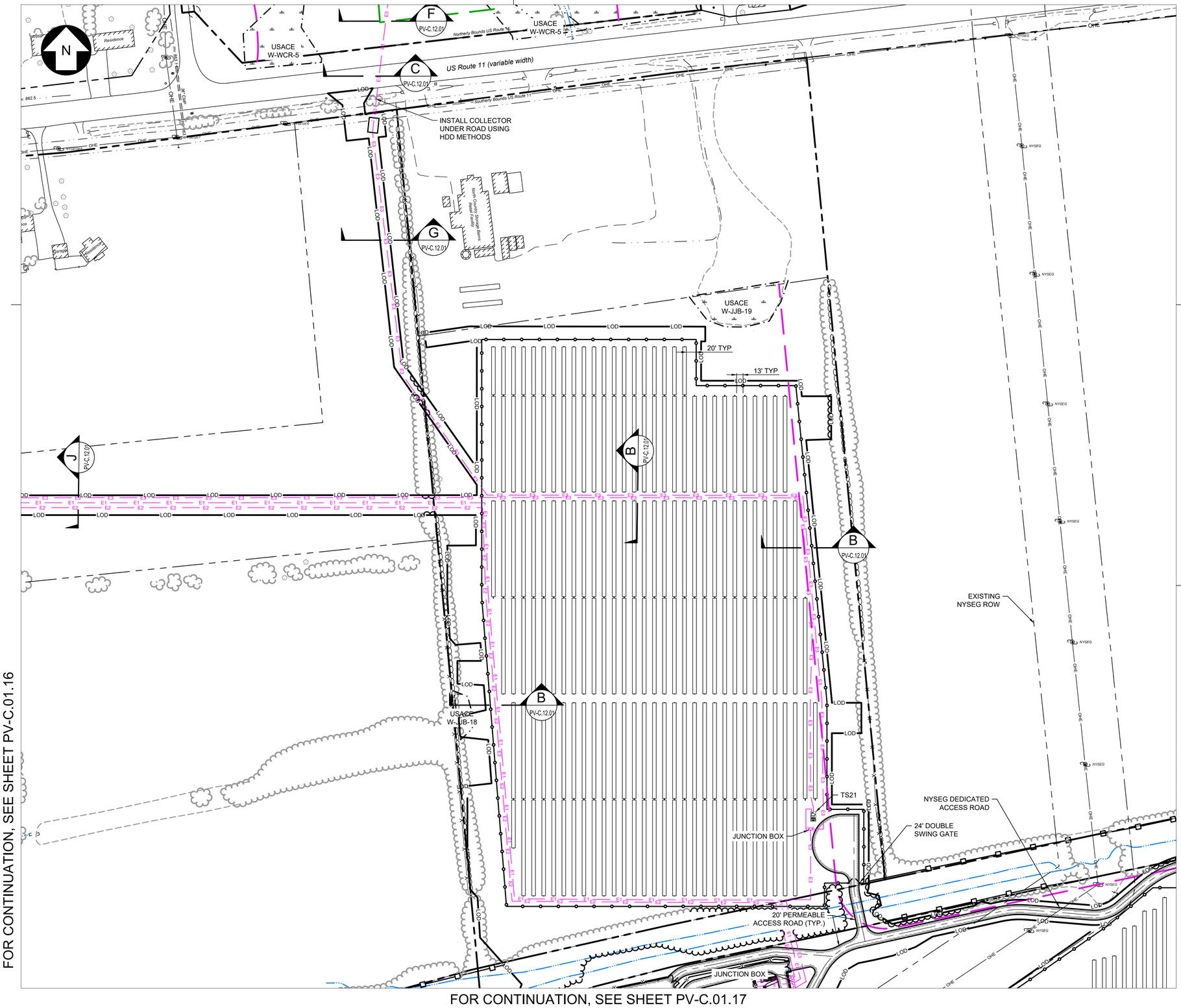
FOR CONTINUATION, SEE SHEET PV-C.01.08

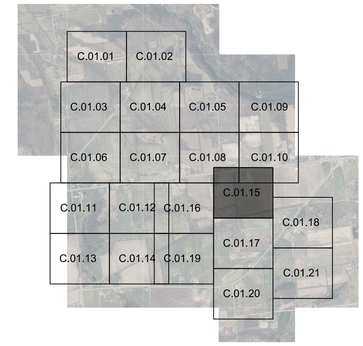
FOR CONTINUATION, SEE SHEET PV-C.01.10




FOR CONTINUATION, SEE SHEET PV-C.01.16

FOR CONTINUATION, SEE SHEET PV-C.01.18

FOR CONTINUATION, SEE SHEET PV-C.01.17




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| LOD | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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079800
LICENSED PROFESSIONAL ENGINEER

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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| | |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.15

REV: 0

AES Tilebock 22X34.v2103119

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FOR CONTINUATION, SEE SHEET PV-C.01.07

FOR CONTINUATION, SEE SHEET PV-C.01.08

FOR CONTINUATION, SEE SHEET PV-C.01.12

FOR CONTINUATION, SEE SHEET PV-C.01.15

FOR CONTINUATION, SEE SHEET PV-C.01.17

FOR CONTINUATION, SEE SHEET PV-C.01.19

N

POOL

USACE & STATE W-JJB-23

J

PV-C.12.01

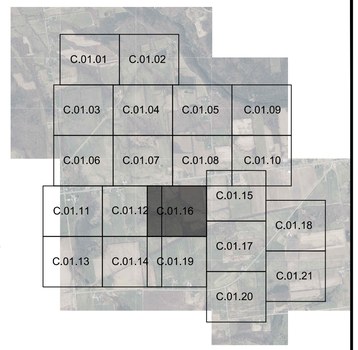
LOD

E1 E2 E3

887.1

STOCKPILE

W-JJB-17




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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PRELIMINARY
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SCALE: 1" = 100'

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.01.16 | 0 |

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FOR CONTINUATION, SEE SHEET PV-C.01.15

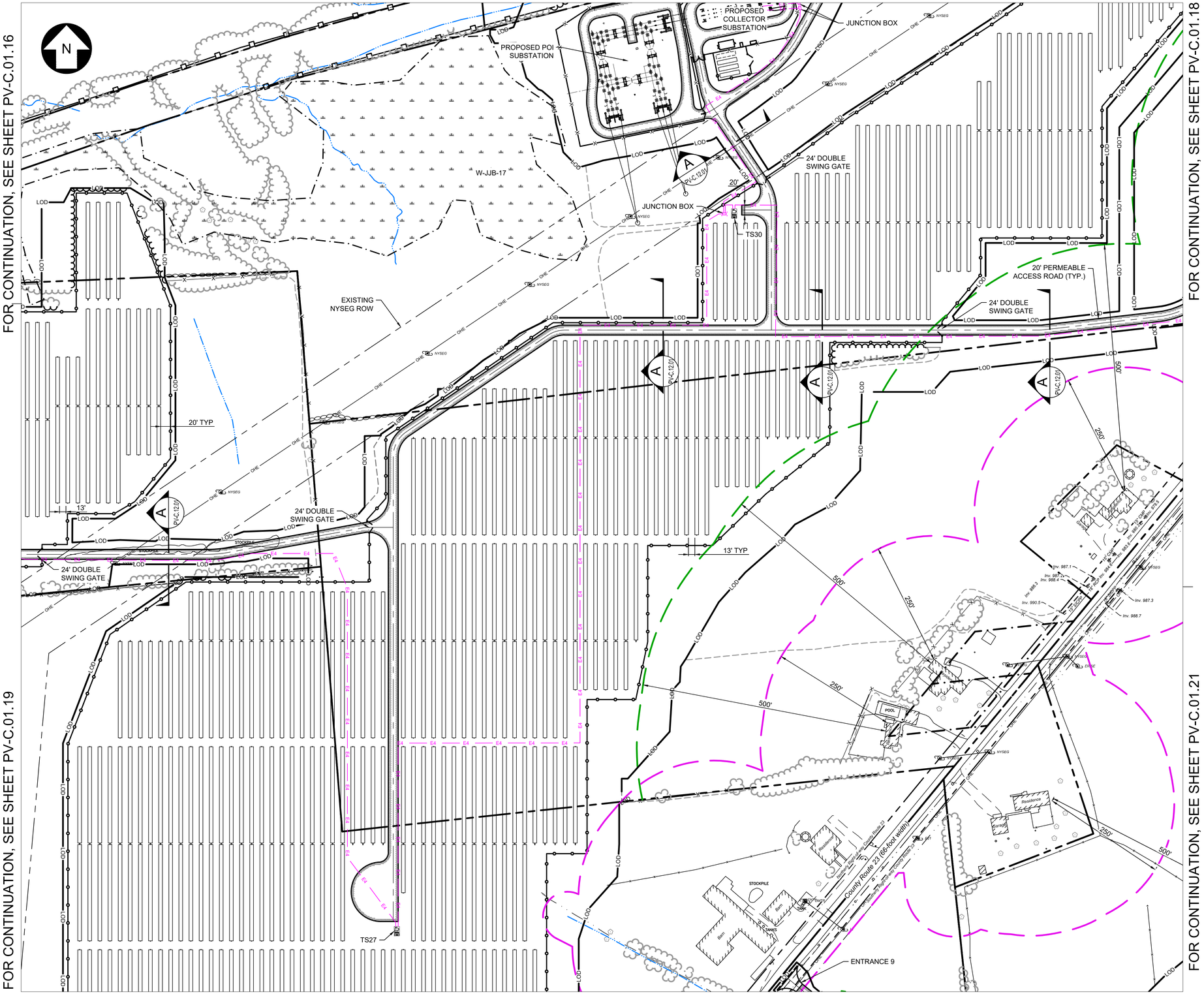
FOR CONTINUATION, SEE SHEET PV-C.01.16

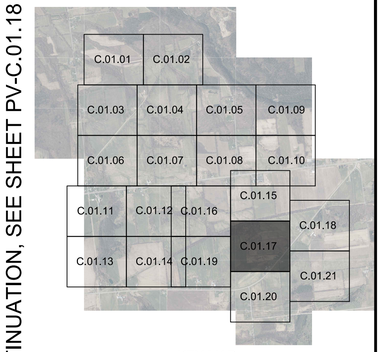
FOR CONTINUATION, SEE SHEET PV-C.01.18

FOR CONTINUATION, SEE SHEET PV-C.01.19

FOR CONTINUATION, SEE SHEET PV-C.01.21

FOR CONTINUATION, SEE SHEET PV-C.01.20




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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PRELIMINARY
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100 0 100 200 FT
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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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|---|---|
| PROJ NUM: | 422299 |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.17

REV: 0

AES Tilelock 22X34 v210319

PLOTTED: 1/19/2022 3:37 PM
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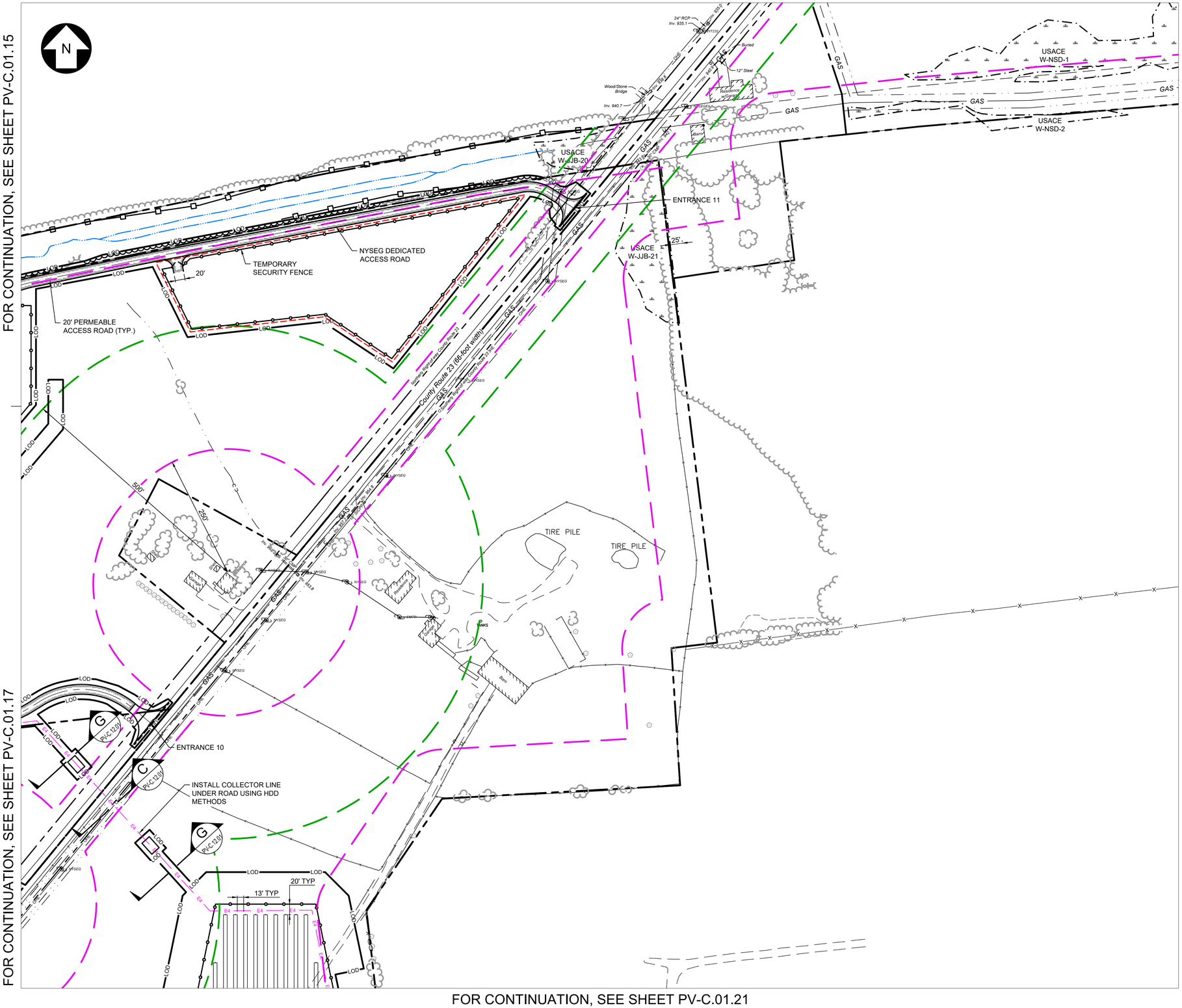
FOR CONTINUATION, SEE SHEET PV-C.01.15

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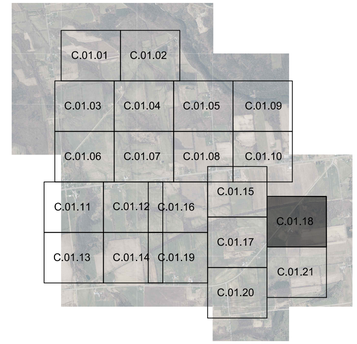


KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
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| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
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| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. New York. Call 811 before you dig

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100 0 100 200 FT
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| - | - | - |

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PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

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| APV: | - |
| DATE: | 05/21/2021 |
| SCALE AT 22" x 34": | 1" = 100' |
| SHEET NO: | PV-C.01.18 |
| REV: | 0 |

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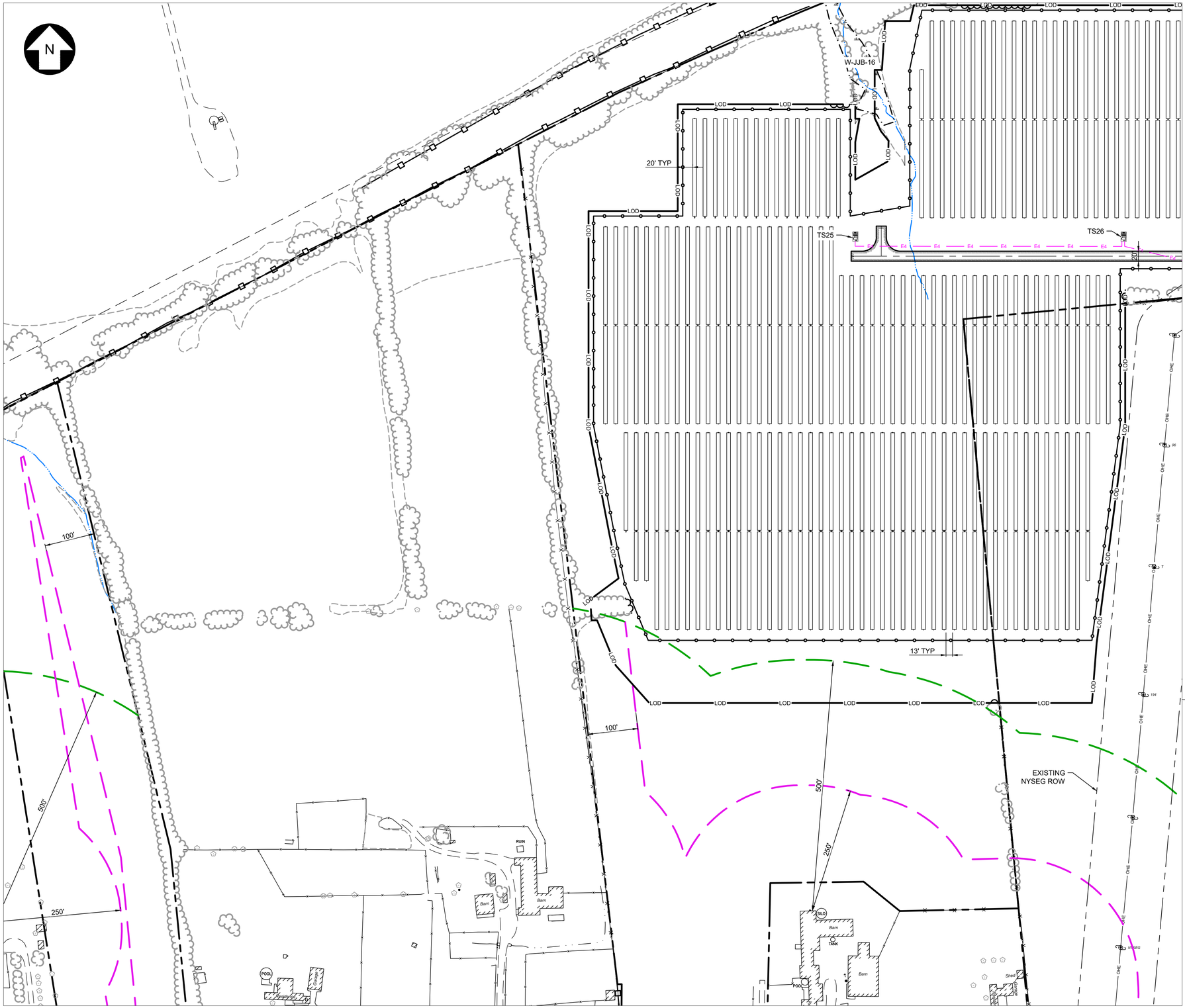
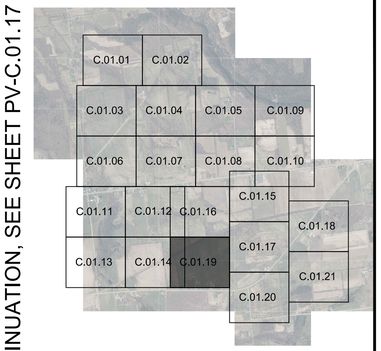
FOR CONTINUATION, SEE SHEET PV-C.01.16

FOR CONTINUATION, SEE SHEET PV-C.01.14

FOR CONTINUATION, SEE SHEET PV-C.01.17

FOR CONTINUATION, SEE SHEET PV-C.01.20




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| | BARBED WIRE FENCE | |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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KEY PLAN:

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| NO. | DATE | DESCRIPTION |
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| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.19

REV: 0

AES Tilebock 22X34 v210319

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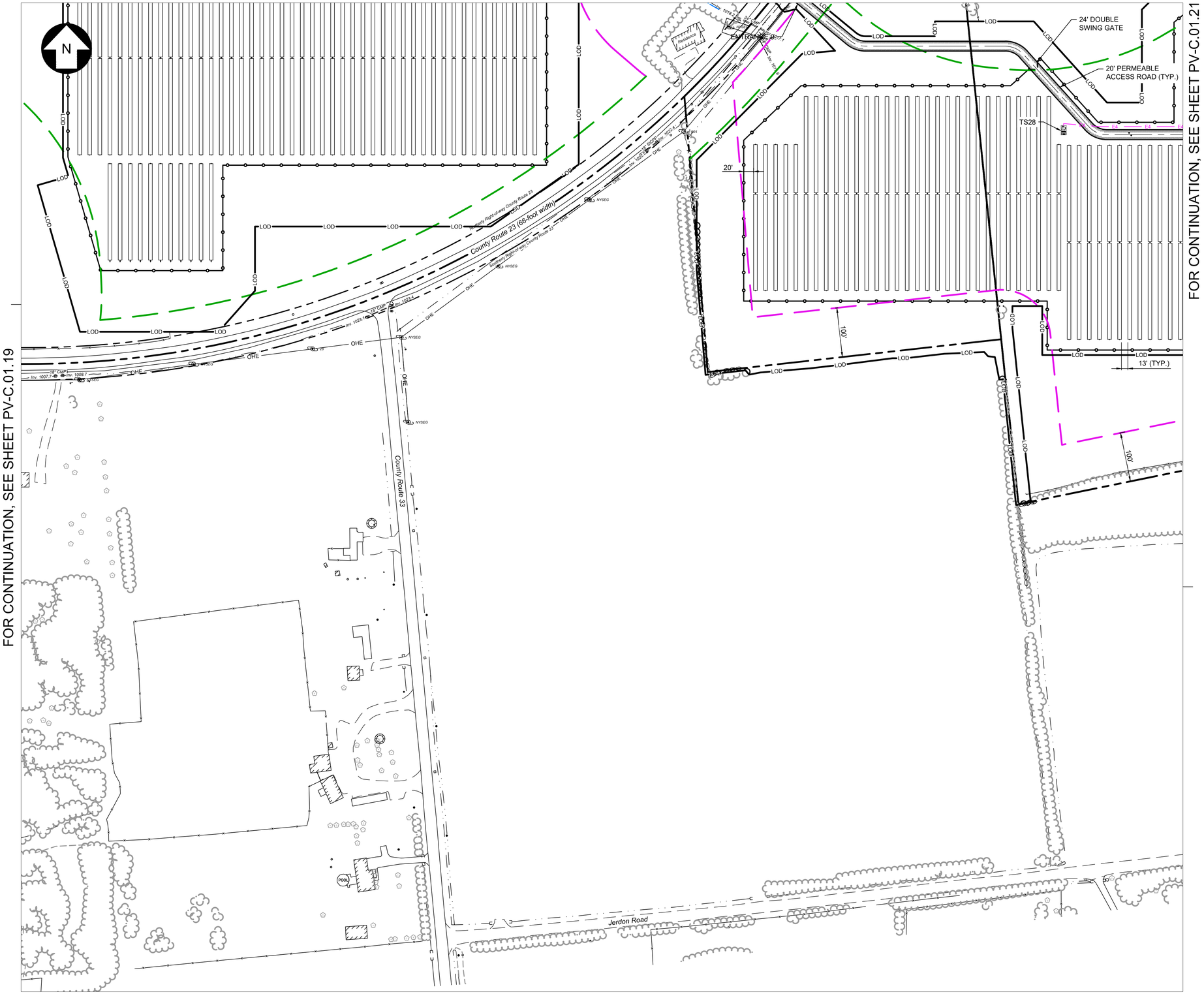
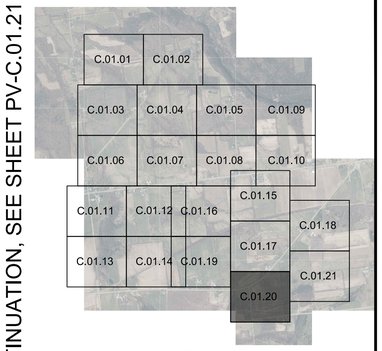
FOR CONTINUATION, SEE SHEET PV-C.01.17

FOR CONTINUATION, SEE SHEET PV-C.01.19

FOR CONTINUATION, SEE SHEET PV-C.01.21




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| | BARBED WIRE FENCE | |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
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SITE PLAN

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SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.01.20

REV: 0

AES Tilebock 22X34 v210319

PLOTTED: 1/19/2022 3:37 PM
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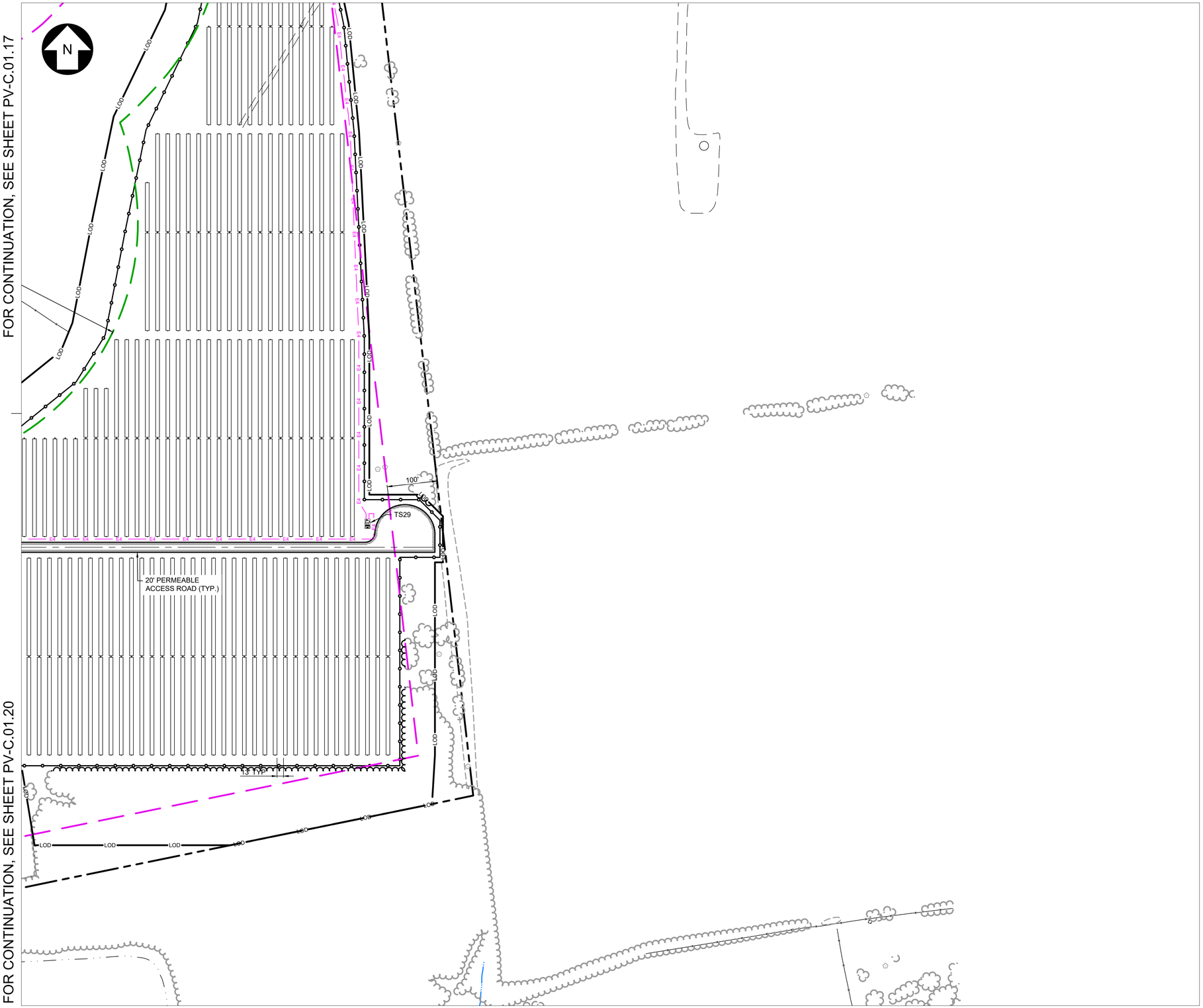
FOR CONTINUATION, SEE SHEET PV-C.01.18

FOR CONTINUATION, SEE SHEET PV-C.01.17

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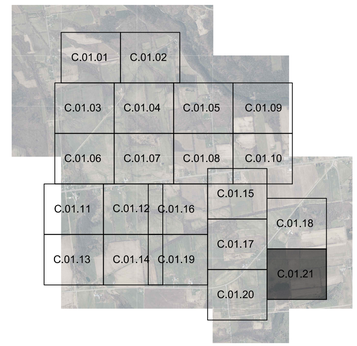


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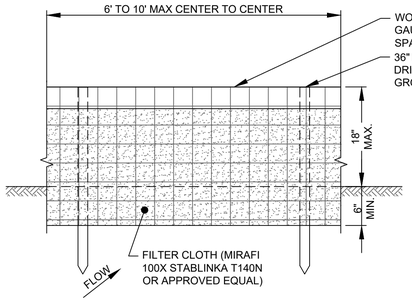


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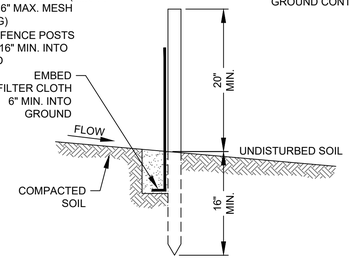
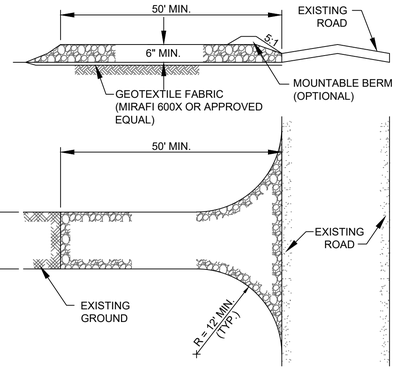



SECTION

1. WOVEN WIRE FENCE SHALL BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MIDSECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BUILD-UP REACHES ⅓ THE HEIGHT OF THE FENCE.
5. STANDARD SILT FENCE MAY BE USED ON SLOPES < 10%.
6. SILT FENCE IS SHOWN ON THE PLANS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL INSTALLATION LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE SWPPP AND NYS EROSION AND SEDIMENT CONTROL MANUAL.

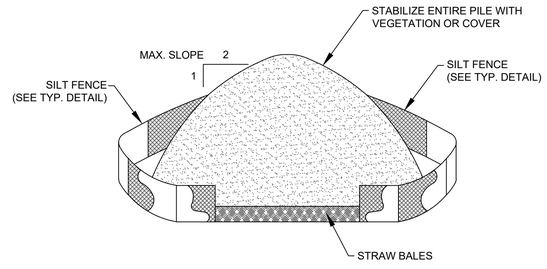
| | |
|---|---|
| POSTS: | STEEL "T" OR "U" TYPE OR 2" HARDWOOD. |
| FENCE: | WOVEN WIRE. 14½ GA 6" MAX MESH OPENING. |
| FILTER CLOTH: | FILTER X, MIRAFI 100X. STABLINKA T140N OR APPROVED EQUAL. |
| PREFABRICATED UNIT: | ENVIROFENCE OR APPROVED EQUAL |

## REINFORCED SILT FENCE DETAILS
SCALE: N.T.S.



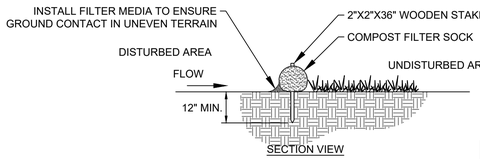

1. STONE SIZE - USE 1" - 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MIN. BUT NOT LESS THAN THE FULL ROAD WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. PROVIDE TWENTY-FOUR (24) FOOT WIDTH IF THERE IS ONLY A SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

## STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.

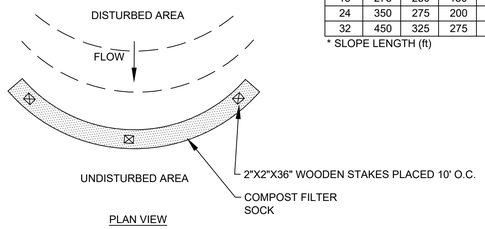



INSTALLATION NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

## TYPICAL TOPSOIL STOCKPILE
SCALE: N.T.S.




SECTION VIEW



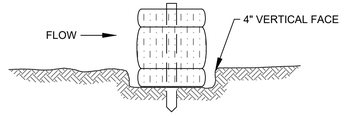

PLAN VIEW

MAXIMUM SLOPE LENGTH

| DIA. (in.) | SLOPE | | | | | | |
|---|---|---|---|---|---|---|---|
| | 2 % | 5 % | 10 % | 20 % | 25 % | 33 % | 50 % |
| 8 | 225* | 200 | 100 | 50 | 20 | -- | -- |
| 12 | 250 | 225 | 125 | 65 | 50 | 40 | 25 |
| 18 | 275 | 250 | 150 | 70 | 55 | 45 | 30 |
| 24 | 350 | 275 | 200 | 130 | 100 | 60 | 35 |
| 32 | 450 | 325 | 275 | 150 | 120 | 75 | 50 |

* SLOPE LENGTH (ft)

## TYPICAL COMPOST FILTER SOCK
SCALE: N.T.S.

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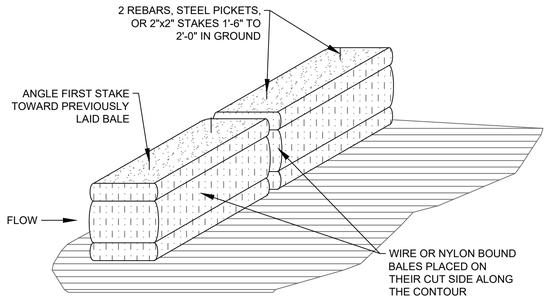
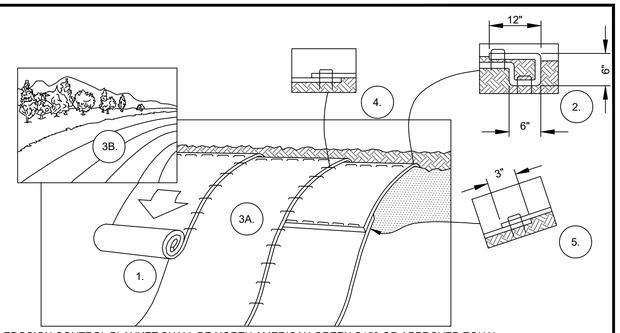



ANCHORING DETAIL

NOTES:
1. STRAW BALES SHALL BE USED ONLY AS REINFORCEMENT FOR SILT FENCE WHERE NEEDED.
2. BALES SHALL BE PLACED IN A ROW AT THE TOE OF A SLOPE OR ON THE CONTOUR, WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
3. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY DRIVING EITHER TWO STAKES OR RE-BARS THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE TOP OF BALE.
5. INSPECTIONS SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

## STRAW BALE BARRIER
SCALE: N.T.S.

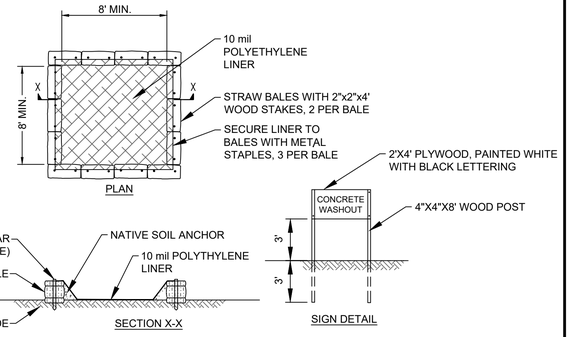



EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS BY SMOOTHING THE SURFACE, REMOVING DEBRIS AND LARGE STONES, AND APPLICATION OF ANY NECESSARY LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

## EROSION CONTROL BLANKET INSTALLATION
SCALE: N.T.S.




NOTES:
1. DIMENSIONS SHOWN ABOVE ARE MINIMUM. SIZE FACILITY FOR ADEQUATE CAPACITY TO CONTAIN SOLIDS, WASH WATER AND RAINFALL, AND TO ALLOW EVAPORATION.
2. LOCATE THE FACILITY A MINIMUM OF 100' FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS.
3. INSPECT FACILITY DAILY AND REPAIR ANY DAMAGE OR LEAKS IMMEDIATELY.
4. DISPOSE OF HARDENED MATERIAL OFF-SITE AT AN APPROPRIATE CONSTRUCTION WASTE FACILITY WHEN ACCUMULATION REACHES 75% OF THE WASHOUT CAPACITY.

## TYPICAL CONCRETE WASHOUT
SCALE: N.T.S.

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EROSION & SEDIMENT CONTROL DETAILS 1

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REV: 0

AES Tilelock 22X34 v210319

PLOTTED: 1/19/2022 3:37 PM
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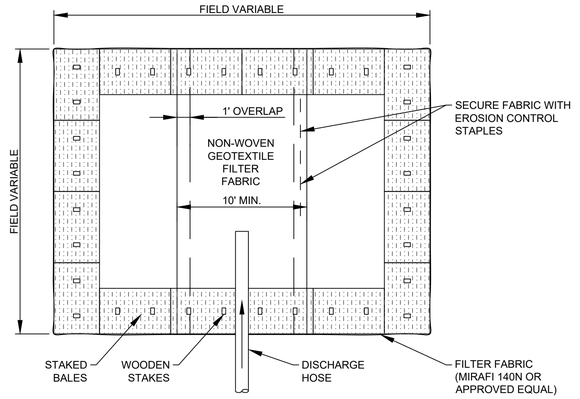
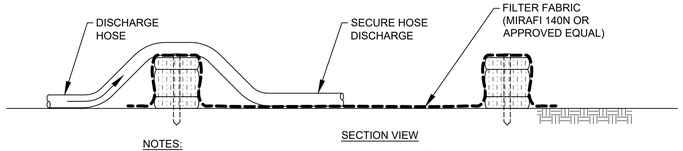


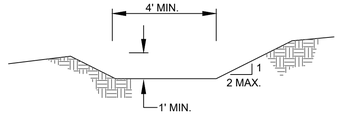

PLAN VIEW



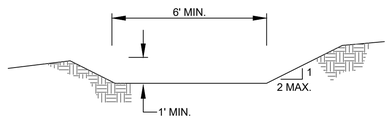

SECTION VIEW

NOTES:
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. THE BASIN SHALL BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
2. LOCATE THE FACILITY A MINIMUM OF 100' FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS.
3. CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.

## TYPICAL DEWATERING BASIN
SCALE: N.T.S.




SECTION VIEW
SWALE TYPE A (< 5 ACRES)



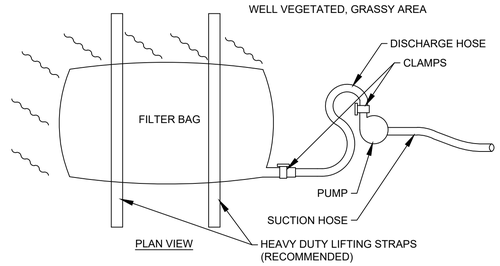

SECTION VIEW
SWALE TYPE B (5 - 10 ACRES)

NOTES:
1. ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTUBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT A NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTION OF THE DITCH.
5. DITCHES SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EXCAVATED MATERIAL NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SUCH THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

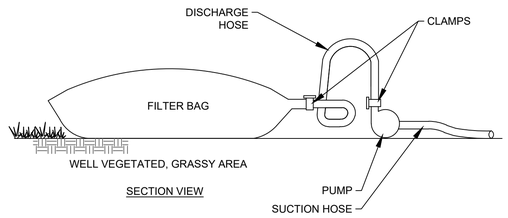
| CHANNEL GRADE | TYPE A DITCH (< 5 ACRES) | TYPE B DITCH (5 - 10 ACRES) |
|---|---|---|
| 0.5-3.0% | SEED & STRAW MULCH | SEED & STRAW MULCH |
| 3.1-5.0% | SEED & STRAW MULCH | SEED AND COVER W/ RECP |
| 5.1-8.0% | SEED AND COVER W/ RECP | LINED 4-8" RIP RAP OR GEOTEXTILE |
| 8.1-10% | LINED 4-8" RIP RAP OR GEOTEXTILE | ENGINEERED DESIGN |

9. INSPECT AND PROVIDE MAINTENANCE AFTER EACH RAIN EVENT.
10. FIGURE IS BASED ON NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

## TEMPORARY SWALE DETAIL
SCALE: N.T.S.



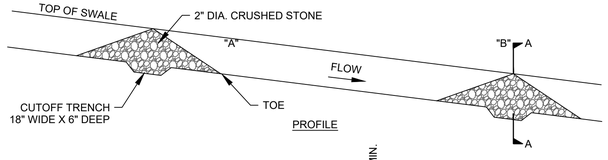

PLAN VIEW



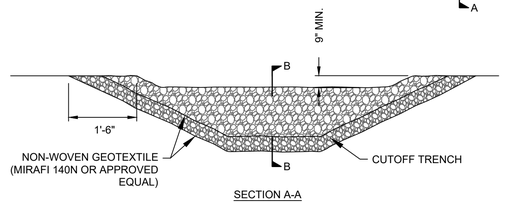

SECTION VIEW

NOTES:
1. THE GEOTEXTILE MATERIAL USED TO CONSTRUCT THE FILTER BAG SHALL MEET OR EXCEED THE SPECIFICATIONS PROVIDED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL - 2016" OR LATEST EDITION. THE BAG SHALL BE SEWN WITH A DOUBLE NEEDLE MACHINE USING HIGH STRENGTH DOUBLE STICHED "J" TYPE SEAMS (ASTM D4884).
2. GEOTEXTILE FILTER BAGS SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS BASED ON THE PUMP DISCHARGE RATE.
3. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 75% FULL. THE ACCUMULATED SEDIMENT DISPOSAL SHALL BE MANAGED IN CONFORMANCE WITH THE PROJECT SWPPP.
4. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. IT IS RECOMMENDED THAT BAGS BE PLACED ON STRAPS AS SHOWN TO FACILITATE REMOVAL.
5. BAGS SHALL BE LOCATED IN A WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE THEIR DISCHARGE CAPACITY.
6. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
7. BAGS SHALL NOT BE PLACED WITHIN 50 FEET OF WETLANDS, STREAMS, OR OTHER SURFACE WATERS.
8. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. A COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS PLACED WHERE A GRASSY AREA IS NOT AVAILABLE. A COMPOST FILTER SOCK MUST BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.
9. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
10. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 50 PERCENT OF THE MAXIMUM RATE SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PROVIDE FLOATING SUCTION SCREENS AT THE WATER SOURCE.
11. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

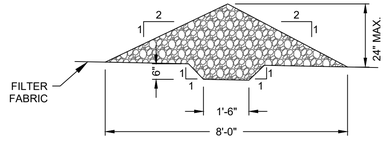
## SEDIMENT FILTER BAG
SCALE: N.T.S.




PROFILE



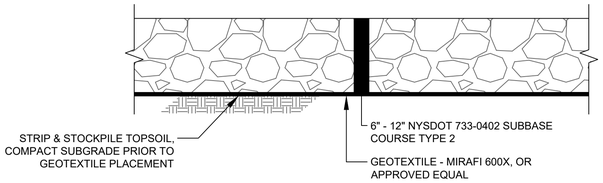

SECTION A-A




SECTION B-B

NOTE:
INSTALL WHERE INDICATED ON SITE GRADING PLAN AND AS NEEDED BY SPACING REQUIREMENTS.

## CHECK DAM DETAIL
SCALE: N.T.S.




## TEMPORARY LAYDOWN YARD TYPICAL SECTION
SCALE: N.T.S.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EROSION & SEDIMENT CONTROL DETAILS 2

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

AS NOTED

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REV: 0

PLOTTED: 1/19/2022 1:37 PM
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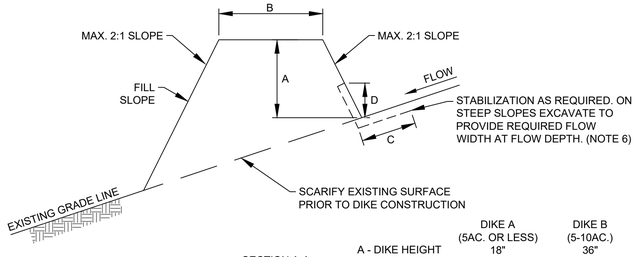
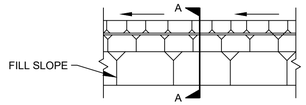



SECTION A-A

| | DIKE A (5AC. OR LESS) | DIKE B (5-10AC.) |
|---|---|---|
| A - DIKE HEIGHT | 18" | 36" |
| B - DIKE WIDTH | 24" | 36" |
| C - FLOW WIDTH | 48" | 72" |
| D - FLOW DEPTH | 8" | 15" |

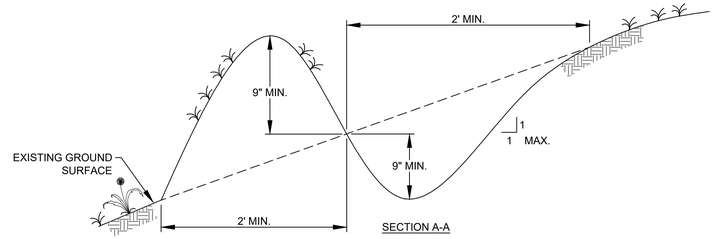
POSITIVE DRAINAGE-GRADE SUFFICIENT TO DRAIN



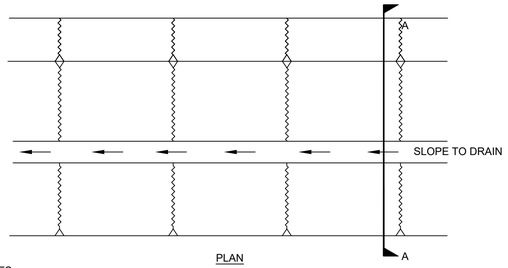

NOTES:
1. DIKES SHALL BE COMPACTED TO NOT LESS THAN THE IN-SITU SOIL DENSITY.
2. PROVIDE POSITIVE DRAINAGE TO AN APPROVED, STABILIZED OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES FLATTER AS REQUIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN.
6. PROVIDE FLOW CHANNEL STABILIZATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (2016)".

## TYPICAL EARTH DIKE DETAIL

SCALE: N.T.S.




SECTION A-A



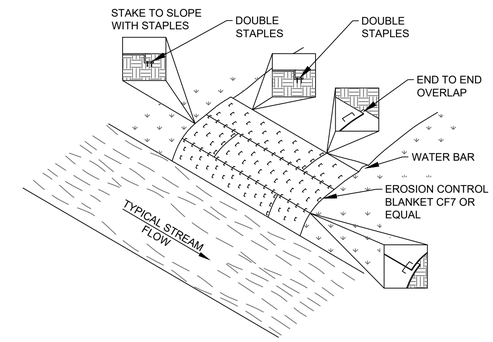

PLAN

NOTES:
1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL - 2016".
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR THE TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 2 DAYS.
6. PROVIDE PERIODIC INSPECTION AND REQUIRED MAINTENANCE AFTER EACH RAIN EVENT.

MAX. DRAINAGE AREA LIMIT= 2 ACRES

## TYPICAL PERIMETER DIKE/SWALE

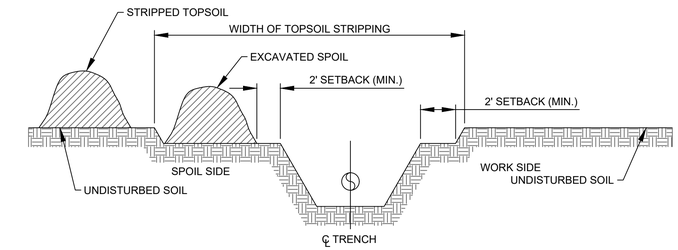
SCALE: N.T.S.



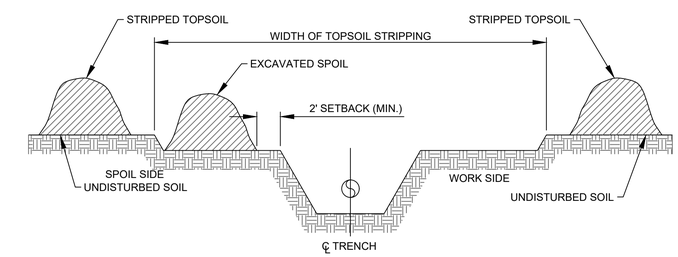

NOTES:
1. EROSION CONTROL MATTING SHALL BE PLACED ON THE BANKS OF FLOWING STREAMS WHERE VEGETATION HAS BEEN REMOVED OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
2. THE EROSION CONTROL MATTING SHALL MEET THE REQUIREMENTS SPECIFIED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" - 2016 AND/OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
3. STAPLES SHALL BE MADE OF 11 GAUGE WIRE, U-SHAPED WITH 6" LEGS AND A 1" CROWN. STAPLES SHALL BE DRIVEN INTO THE GROUND FOR THE FULL LENGTH OF THE STAPLE LEGS. ALTERNATELY 1" WOODEN PEGS 6" LONG AND BEVELED TO SECURE MATTING.
4. MATTING SHALL BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS OR AS FOLLOWS:
   - 4.1. THE TOP OF THE BLANKET SHALL EXTEND 2' PAST THE UPPER EDGE OF THE HIGH WATER MARK. IF A WATERBED IS PRESENT ON THE APPROACH SLOPE, THE BLANKET SHALL BEGIN ON THE UPHILL SIDE OF THE WATERBED.
   - 4.2. INSTALL BLANKET(S) ACROSS THE SLOPE IN THE DIRECTION OF WATER FLOW.
   - 4.3. ANCHOR ("KEY") THE UPSTREAM EDGE OF THE BLANKET(S) INTO THE SLOPE USING A 6" WIDE BY 6" DEEP TRENCH. DOUBLE STAPLE EVERY 12" BEFORE BACK FILLING AND COMPACTING TRENCH.
   - 4.4. ANCHOR ("KEY") THE UPPER EDGE OF THE BLANKET INTO THE SLOPE USING A 6" WIDE BY 6" DEEP TRENCH. DOUBLE STAPLE EVERY 12" BEFORE BACK FILLING AND COMPACTING TRENCH.
   - 4.5. THE EDGES OF PARALLEL BLANKETS SHALL BE OVERLAPPED A MINIMUM OF 6". THE UPPER BLANKET SHALL BE PLACED OVER THE LOWER BLANKET (SHINGLE STYLE) AND STAPLED EVERY 12" ALONG THE LENGTH OF THE EDGE.
   - 4.6. WHEN BLANKET ENDS ARE TO ADJOINING BLANKETS, THE UPSTREAM BLANKET SHALL BE PLACED OVER THE DOWNSTREAM BLANKET (SHINGLE STYLE) WITH APPROXIMATELY 6" OF OVERLAP, STAPLE THROUGH THE OVERLAP AREA EVERY 12".
   - 4.7. STAPLE DOWN THE CENTER OF THE BLANKET(S), THREE STAPLES IN EVERY SQUARE YARD.
5. IN LIVESTOCK AREAS WHERE EROSION CONTROL MATTING IS APPLIED TO STREAM BANKS, FENCING SHALL BE USED IF NECESSARY TO EXCLUDE LIVESTOCK, WITH PERMISSION OF THE LANDOWNER.
6. MONITOR FOR WASHOUTS, STAPLE INTEGRITY OR MAT MOVEMENT. REPLACE OR REPAIR AS NECESSARY.

## TYPICAL STREAM BANK MATTING

SCALE: N.T.S.




DITCH PLUS SPOILSIDE TOPSOIL SEGREGATION

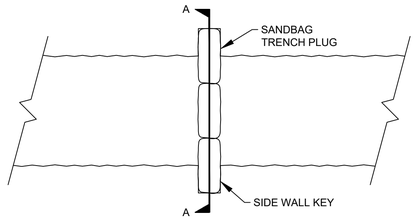



FULL WIDTH TOPSOIL STRIPPING

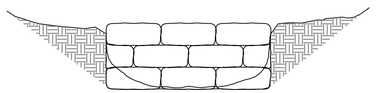
NOTES:
1. TOPSOIL MAY BE IN LOCATIONS AS SHOWN ABOVE, OR AT OTHER APPROVED LOCATIONS.
2. LEAVE GAPS IN SPOIL PILES FOR WATER RUN-OFF.
3. CONSTRUCTION R.O.W. MAY BE EXPANDED UP TO FULL R.O.W. WIDTH IN NON-WETLAND AREAS, FOR TOPSOIL SALVAGE.

## TOPSOIL SEGREGATION METHODS - COLLECTOR

SCALE: N.T.S.




PLAN VIEW



SECTION A

NOTES:
1. AFTER TRENCH EXCAVATION, HAND DRESS BOTTOM OF TRENCH IN VICINITY OF PLANNED PLUG CONSTRUCTION.
2. EXCAVATE KEY INTO TRENCH SIDE WALL. EXCAVATE TO PROVIDE VERTICAL SURFACE NOT LESS THAN 6" INTO BANK.
3. CONSTRUCT SANDBAG TRENCH PLUG USING SANDBAGS FILLED WITH CLEAN, FINE SAND.
4. BACK FILL KEY WAY TO PROVIDE COMPACTED NATIVE SOIL AGAINST SANDBAGS.
5. BACK FILL TRENCH CONCURRENT WITH CABLE PLACEMENT. REMOVE SANDBAG TRENCH PLUG AS CABLE IS PLACED.
6. PROVIDE STREAM BED AND EMBANKMENT PROTECTION PER "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" - 2016.

## TYPICAL TRENCH PLUG

SCALE: N.T.S.

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Augusta, ME 04330

PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
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| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EROSION & SEDIMENT CONTROL DETAILS 3

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

AS NOTED

SHEET NO: PV-C.03.03

REV: 0

AES Tilebock 22X34.-(210319)

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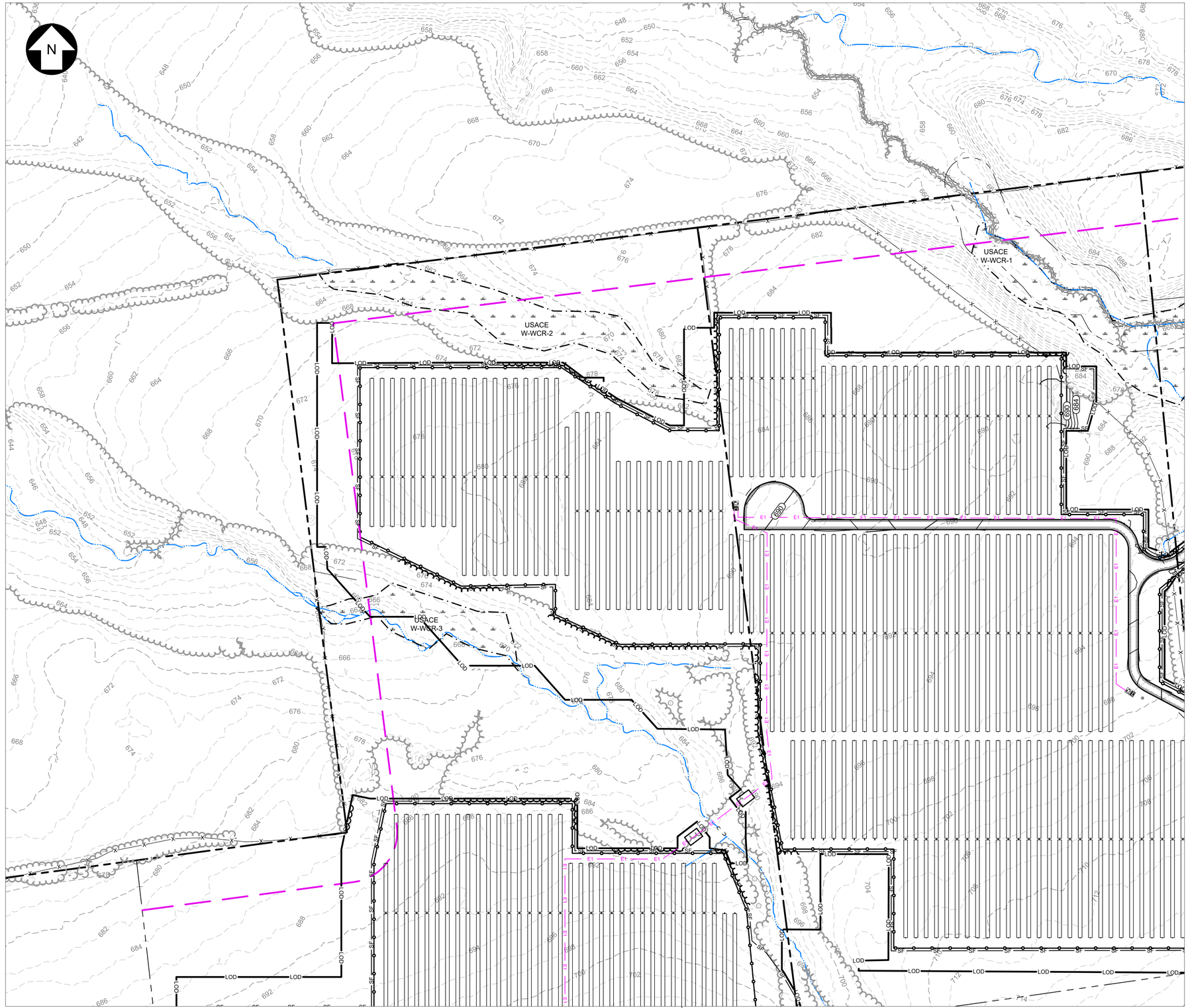


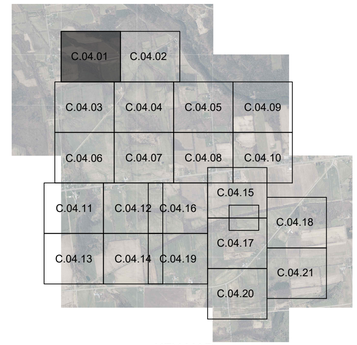


KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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100 0 100 200 FT
SCALE: 1" = 100'

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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.01
REV: 0

PLOTTED: 1/19/2022 3:40 PM
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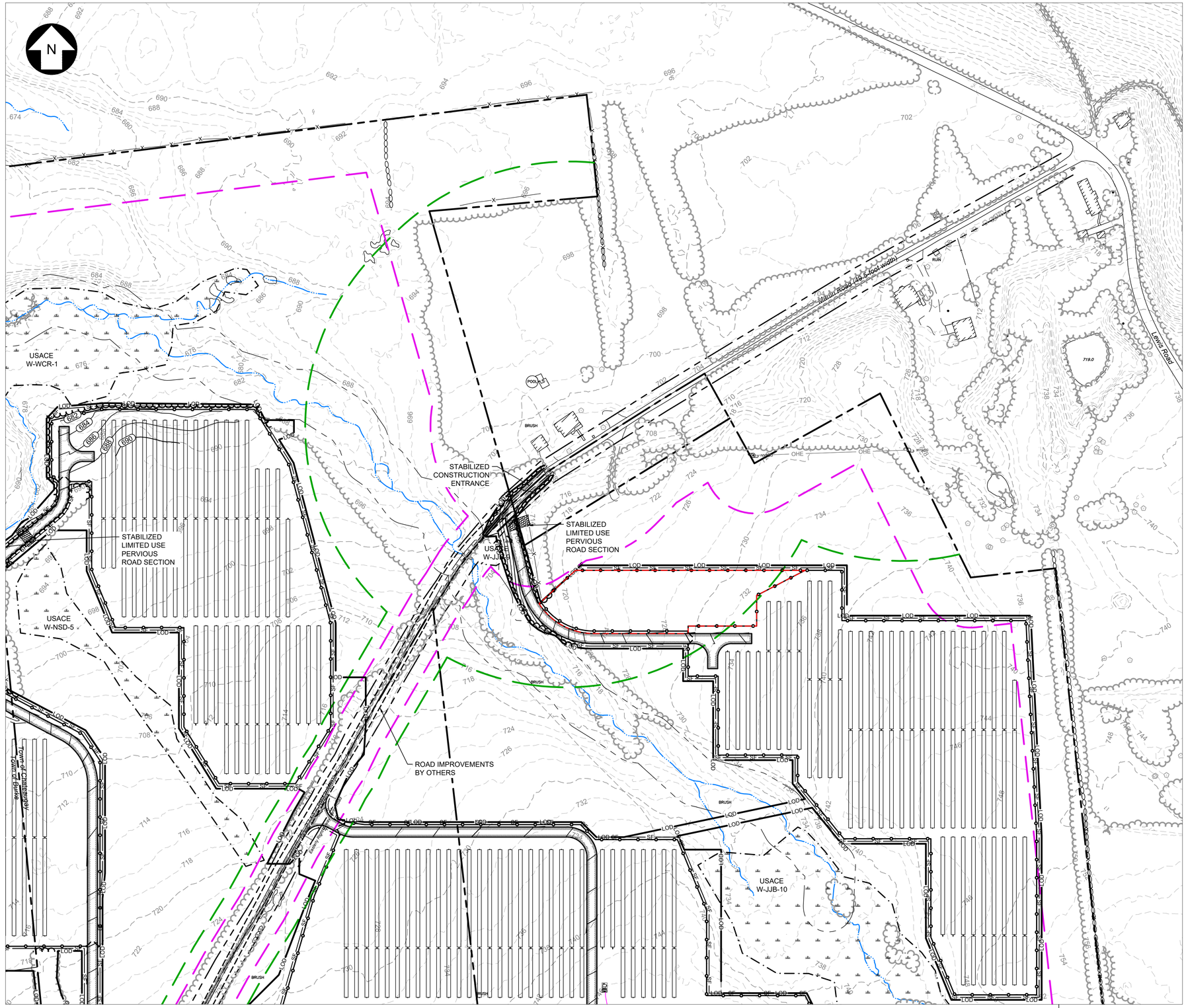
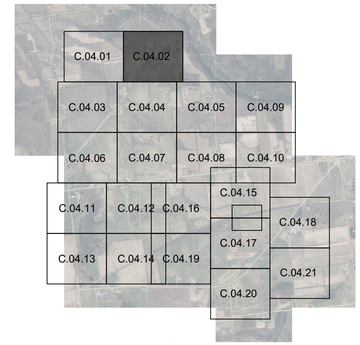
XREFs: d:\898\898\422299\BASE\ALTA SURVEY.dwg d:\898\898\422299\BASE-NATURAL RESOURCES.dwg d:\898\898\422299\BASE-GRADE-ZONE-1.dwg d:\898\898\422299\BASE-GRADE.dwg d:\898\898\422299\BASE-LAYOUT.dwg d:\898\898\422299\BASE-PV LAYOUT.dwg d:\898\898\422299\BASE-COLLECTION.dwg d:\898\898\422299\BASE-AERIAL.dwg d:\898\898\422299\BASE-GRADE-ZONE-2.dwg d:\898\898\422299\BASE-GRADE-ZONE-3.dwg d:\898\898\422299\BASE-GRADE-ZONE-4.dwg




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| - | - | - |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.02
REV: 0

PLOTTED: 1/19/2022 3:41 PM
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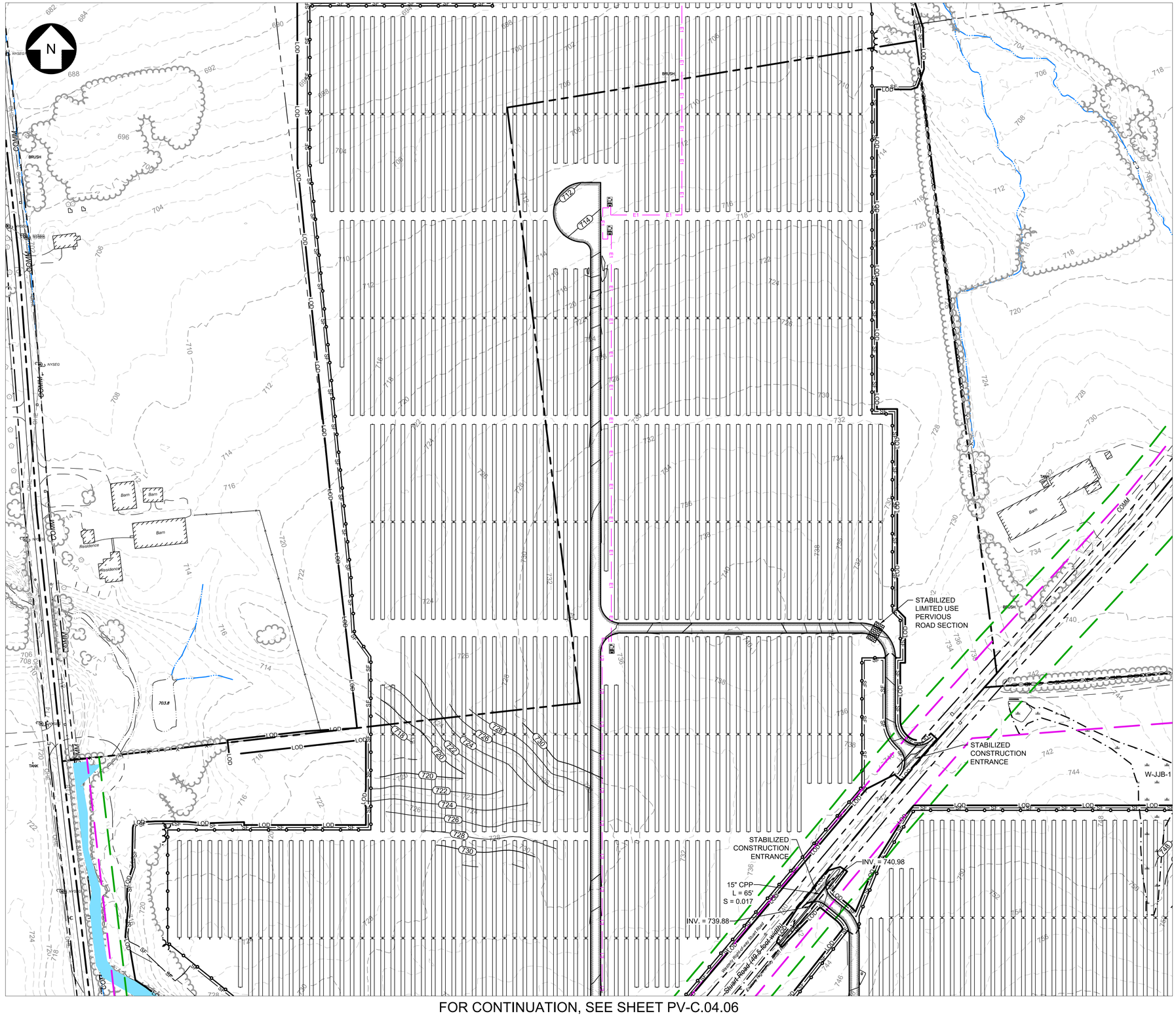
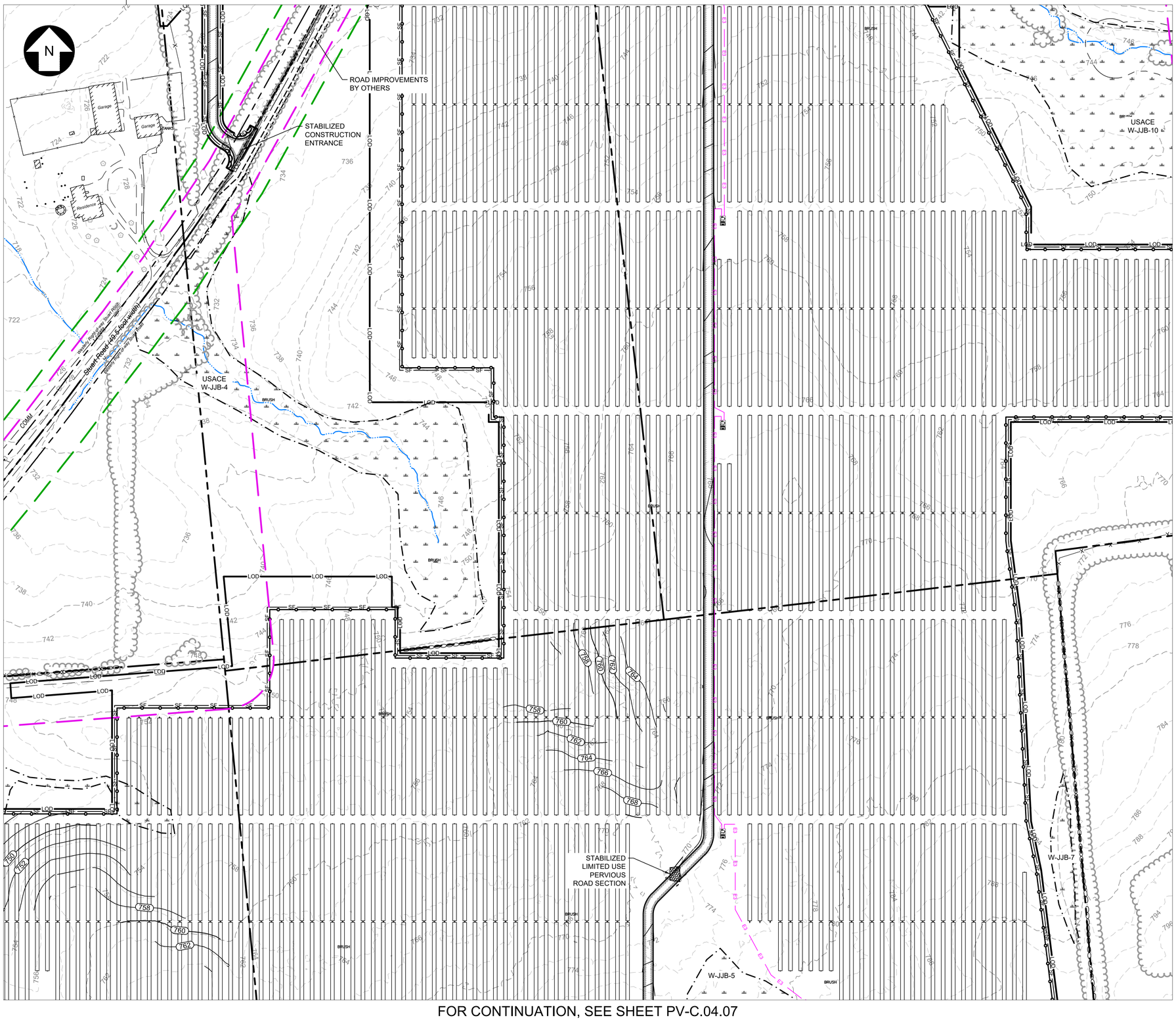
REF's: d3896960/422299-BASE-ALTA.dwg d3896960/422299-BASE-AERIAL.dwg d3896960/422299-BASE-GRADE-ZONE-1.dwg d3896960/422299-BASE-GRADE-ZONE-2.dwg d3896960/422299-BASE-GRADE-ZONE-3.dwg d3896960/422299-BASE-LAYOUT.dwg d3896960/422299-BASE-PV-LAYOUT.dwg d3896960/422299-BASE-NATURAL RESOURCES.dwg d3896960/422299-BASE-SHEETS.dwg d3896960/422299-BASE-TOPO.dwg

FOR CONTINUATION, SEE SHEET PV-C.04.01



FOR CONTINUATION, SEE SHEET PV-C.04.01

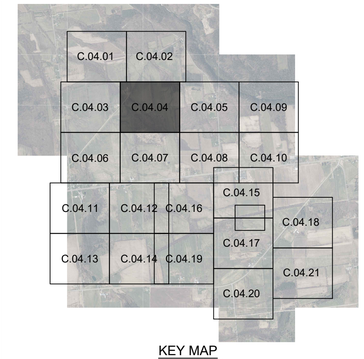
FOR CONTINUATION, SEE SHEET PV-C.04.02




FOR CONTINUATION, SEE SHEET PV-C.04.03

FOR CONTINUATION, SEE SHEET PV-C.04.05

FOR CONTINUATION, SEE SHEET PV-C.04.07




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| BRUSH | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. New York Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| NO. | DATE | DESCRIPTION |
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| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

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| PROJ NUM: | 422299 |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.04

REV: 0

PLOTTED: 1/19/2022 2:43 PM
C:\Jenkins\Jobs\gis\422299-BASE-AERIAL.dwg \\GIS\6950\422299-BASE-GRADE-ZONE-1.dwg \\GIS\6950\422299-BASE-GRADE-ZONE-2.dwg \\GIS\6950\422299-BASE-GRADE-ZONE-3.dwg \\GIS\6950\422299-BASE-LAYOUT.dwg \\GIS\6950\422299-BASE-PV LAYOUT.dwg \\GIS\6950\422299-BASE-RESOURCES.dwg \\GIS\6950\422299-BASE-NATURAL RESOURCES.dwg \\GIS\6950\422299-BASE-SECTION.dwg
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FOR CONTINUATION, SEE SHEET PV-C.04.02

FOR CONTINUATION, SEE SHEET PV-C.04.04

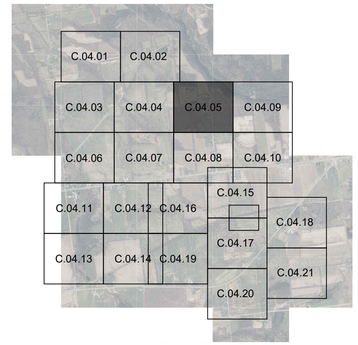
FOR CONTINUATION, SEE SHEET PV-C.04.08

FOR CONTINUATION, SEE SHEET PV-C.04.09

N

USACE W-JJB-10

Lewis Road (49.5-foot width)




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.05

REV: 0

PLOTTED: 1/19/2022 3:42 PM
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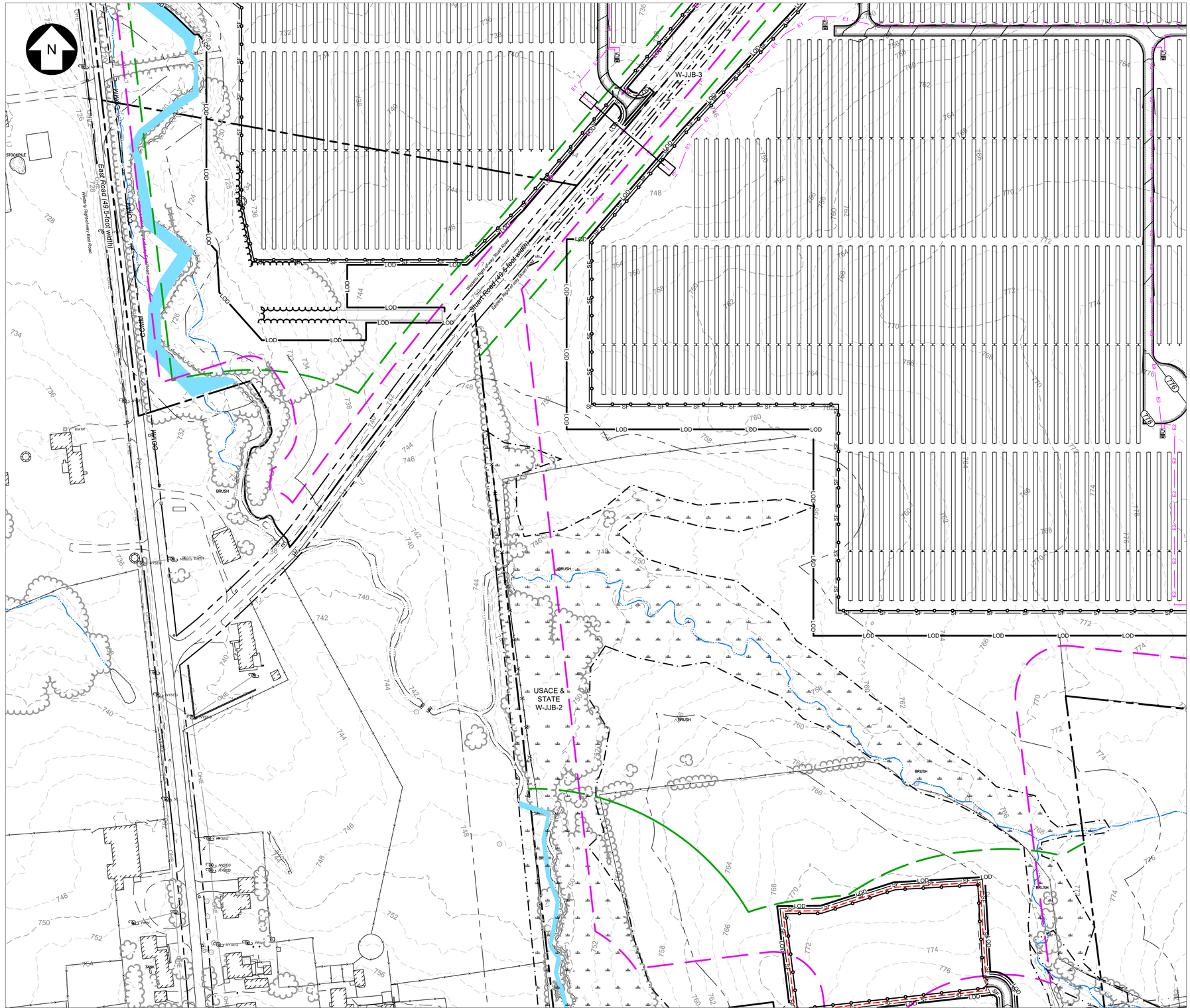
FOR CONTINUATION, SEE SHEET PV-C.04.03


N
East Road (49.5-foot width)
Stuart Road (49.5-foot width)
Western Right-of-way East Road
Western Right-of-way Stuart Road
Eastern Right-of-way Stuart Road
W-JJB-3
USACE & STATE W-JJB-2
LOD
SF
E1
STOCKPILE
BRUSH
TANK
HOUSE
SHED
OHE
AW-SEG
AW-SEG
AW-SEG

FOR CONTINUATION, SEE SHEET PV-C.04.04

FOR CONTINUATION, SEE SHEET PV-C.04.06

FOR CONTINUATION, SEE SHEET PV-C.04.08

FOR CONTINUATION, SEE SHEET PV-C.01.12

FOR CONTINUATION, SEE SHEET PV-C.01.16

N

STABILIZED
LIMITED USE
PERVIOUS
ROAD SECTION

W-JJB-5

W-JJB-8

W-JJB-6

USACE
W-NSD-4

USACE &
STATE
W-NSD-3

USACE &
STATE
W-NSD-3

USACE &
STATE
W-JJB-23

Town of Chateaugay
Town of Burke

US Route 11 (variable width)

Northerly Bounds US Route 11

Southerly Bounds US Route 11

Residence

Barn

Garage

BRUSH

Inv. 806.3 18" SCSP

Inv. 807.1

36" CMP
Inv. 822.4

BRL Inv. 822.4

KEY MAP
SCALE: 1" = 3000'

| | | | | |
|---|---|---|---|---|
| C.04.01 | C.04.02 | | | |
| C.04.03 | C.04.04 | C.04.05 | C.04.09 | |
| C.04.06 | C.04.07 | C.04.08 | C.04.10 | |
| C.04.11 | C.04.12 | C.04.16 | C.04.15 | C.04.18 |
| C.04.13 | C.04.14 | C.04.19 | C.04.17 | C.04.21 |
| | | | C.04.20 | |

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
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| | CULVERT | |
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| | LAYDOWN YARD | |
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| | HORIZONTAL DIRECTIONAL DRILL | |

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| DATE: | 05/21/2021 |

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1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.04.07 | 0 |

PLOTTED: 1/19/2022 3:44 PM
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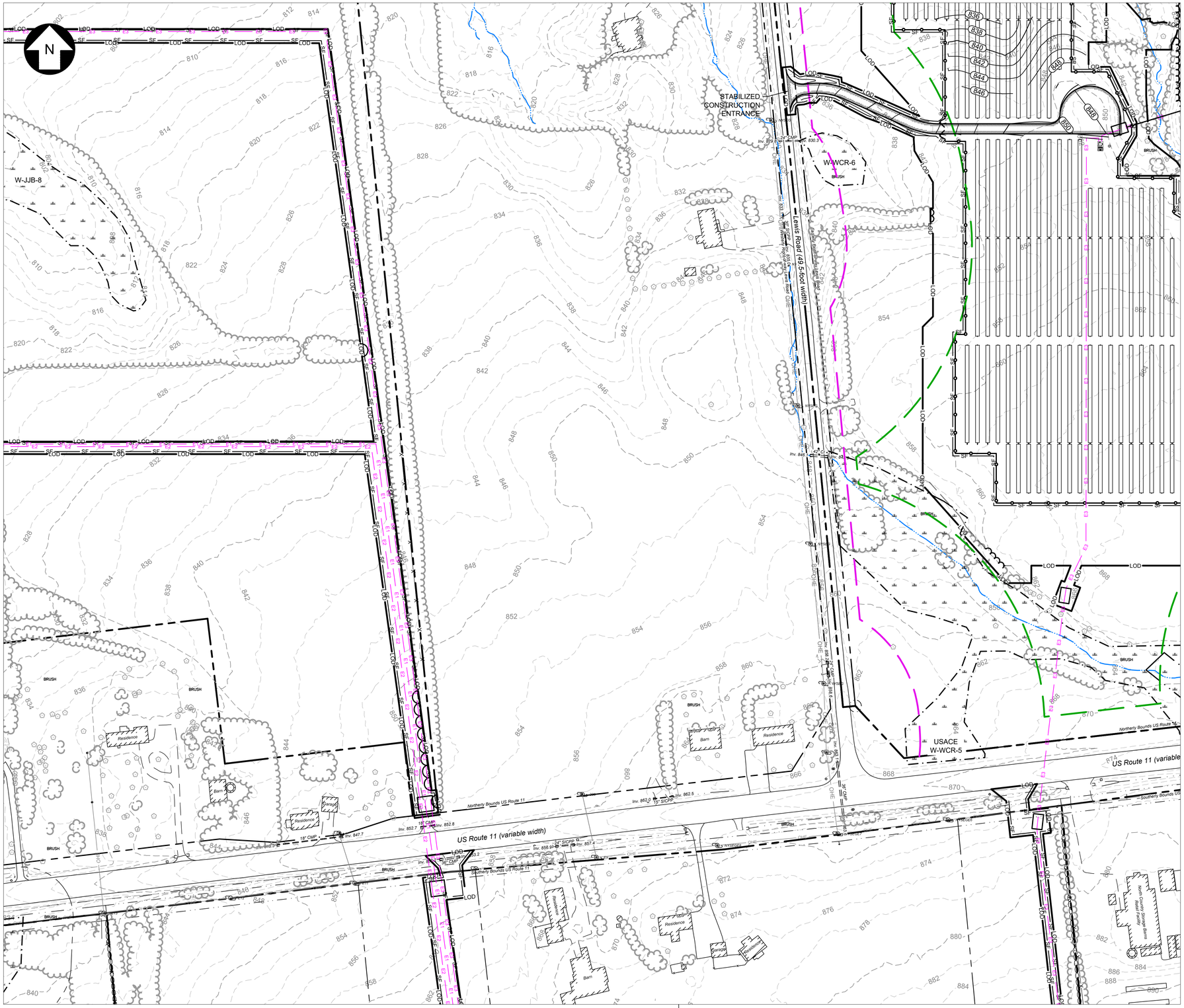
FOR CONTINUATION, SEE SHEET PV-C.04.05

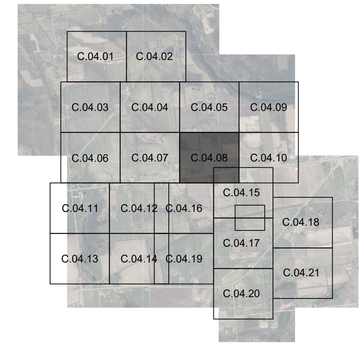
FOR CONTINUATION, SEE SHEET PV-C.04.07




FOR CONTINUATION, SEE SHEET PV-C.04.16

FOR CONTINUATION, SEE SHEET PV-C.04.15

FOR CONTINUATION, SEE SHEET PV-C.04.10




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
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| | COLLECTOR LINE | E1 |
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| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
LICENSED PROFESSIONAL ENGINEER
079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.04.08 | 0 |

PLOTTED: 1/19/2022 3:44 PM
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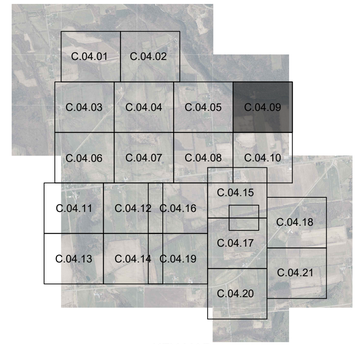
XREFs: d3f9f90f422299-BASE-ALTSURFACE.dwg

FOR CONTINUATION, SEE SHEET PV-C.04.05




FOR CONTINUATION, SEE SHEET PV-C.04.10




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. New York. Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

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SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.09

REV: 0

PLOTTED: 1/19/2022, 3:45 PM
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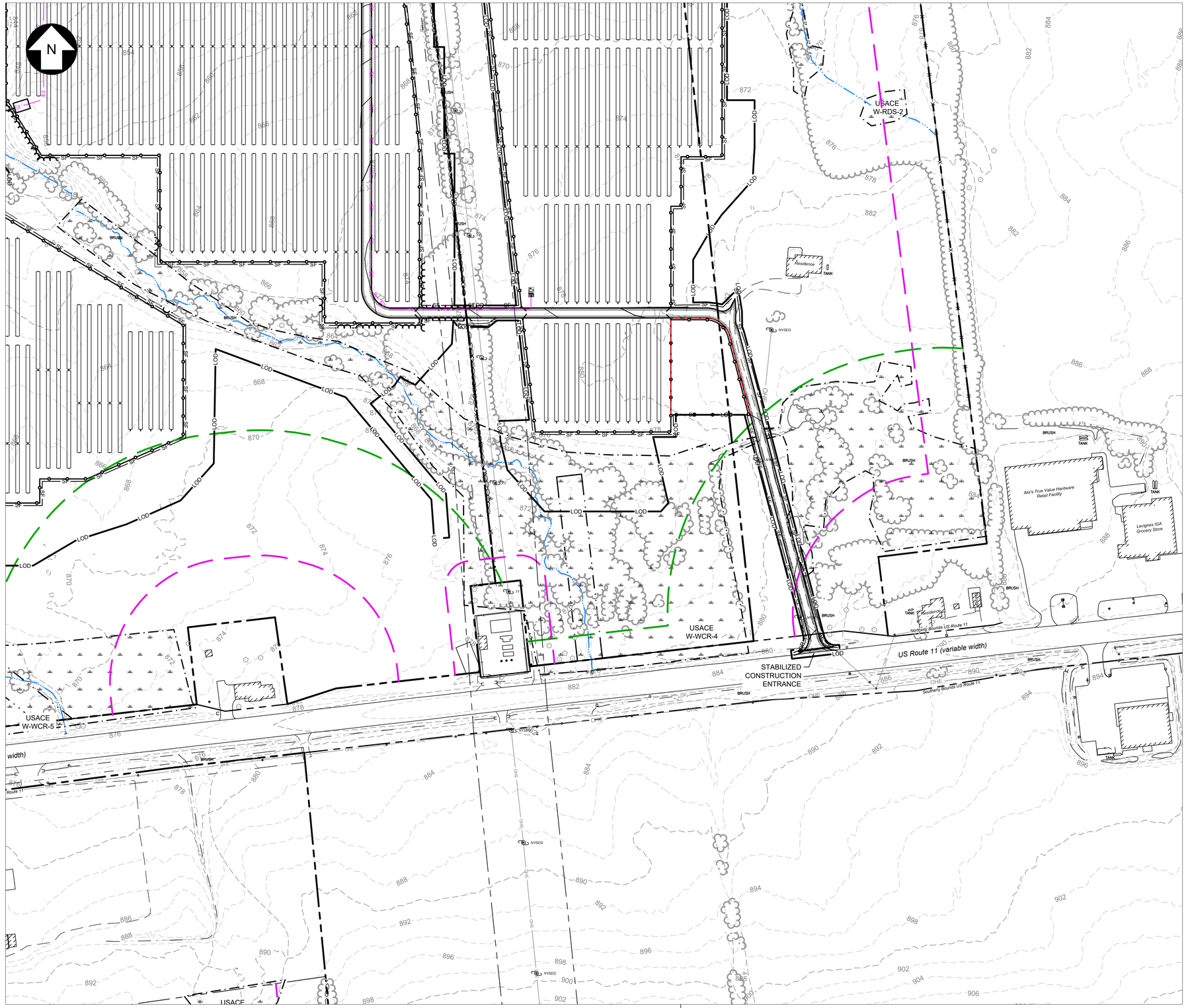
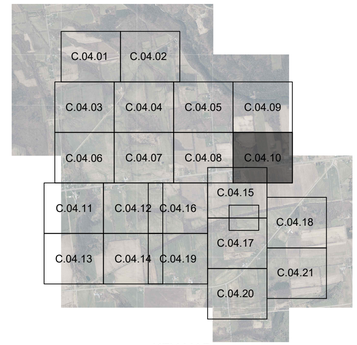
XREFs: d:\596\596\422299-BASE-ALL ELEVEES.dwg, d:\596\596\422299-BASE-AERIAL.dwg, d:\596\596\422299-BASE-GRADE-ZONE-1.dwg, d:\596\596\422299-BASE-NATURAL RESOURCES.dwg, d:\596\596\422299-BASE-GRADE-ZONE-2.dwg, d:\596\596\422299-BASE-LAYOUT.dwg, d:\596\596\422299-BASE-PV-LAYOUT.dwg, d:\596\596\422299-BASE-GRADE-ZONE-3.dwg, d:\596\596\422299-BASE-DRAINAGE-ZONE-1.dwg, d:\596\596\422299-BASE-DRAINAGE-ZONE-2.dwg, d:\596\596\422299-BASE-DRAINAGE-ZONE-3.dwg, d:\596\596\422299-BASE-EROSION CONTROL.dwg

FOR CONTINUATION, SEE SHEET PV-C.04.09

FOR CONTINUATION, SEE SHEET PV-C.04.08




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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100 0 100 200 FT
SCALE: 1" = 100'

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| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

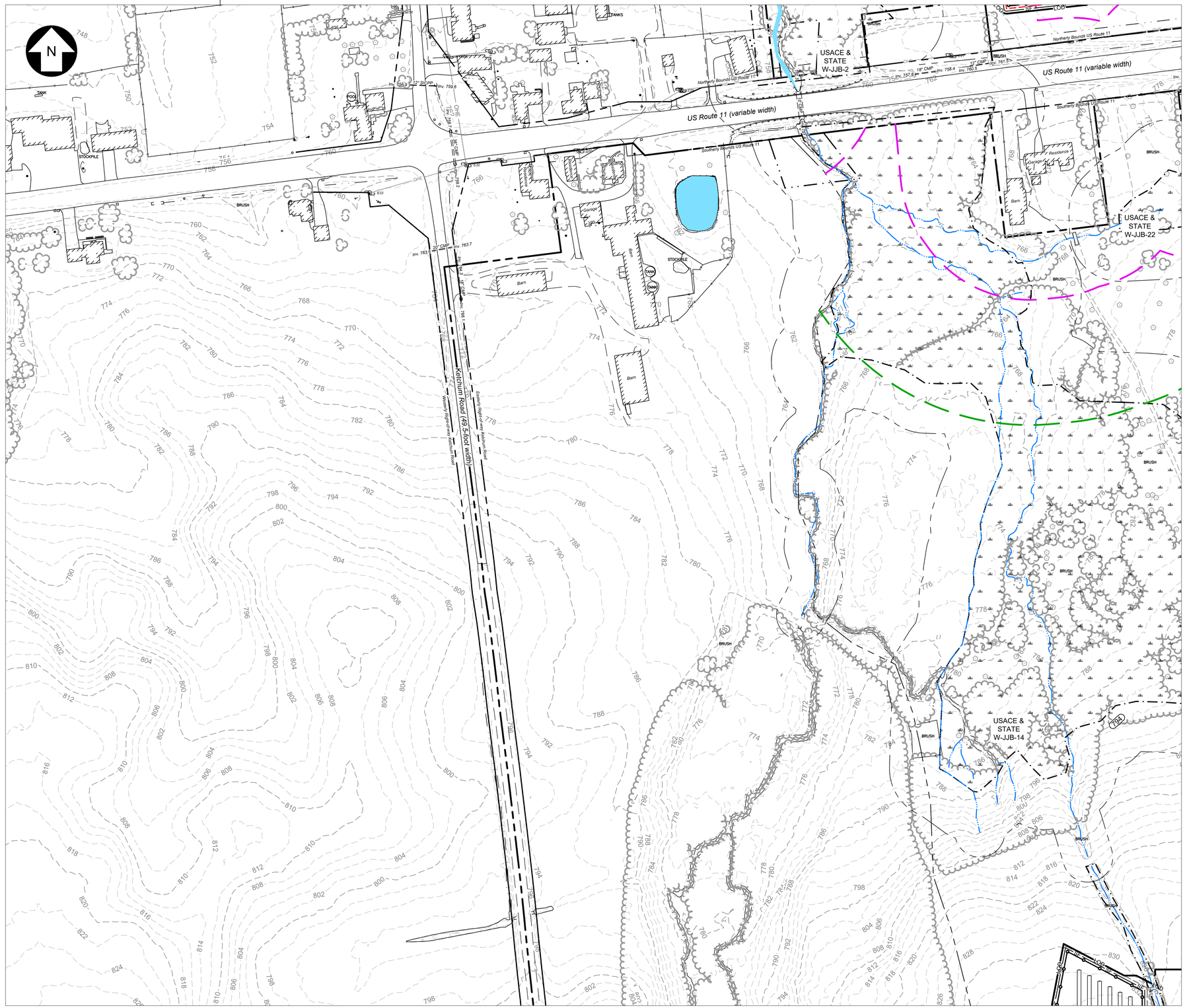
SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.04.10 | 0 |

PLOTTED: 1/19/2022 3:45 PM
C:\pwwork\jgomez\d1439\d0042255\DWG\05-dwg
XREFs: d0896\d0422299-BASE-ALTA SURVEY.dwg; d0896\d0422299-BASE-NATURAL RESOURCES.dwg; d0896\d0422299-BASE-COLLECTION.dwg; d0896\d0422299-BASE-GRADE_ZONE-1.dwg; d0896\d0422299-BASE-GRADE_ZONE-2.dwg; d0896\d0422299-BASE-GRADE_ZONE-3.dwg; d0896\d0422299-BASE-LAYOUT.dwg; d0896\d0422299-BASE-PV LAYOUT.dwg; d0896\d0422299-BASE-PV-ZONE-1.dwg; d0896\d0422299-BASE-PV-ZONE-2.dwg; d0896\d0422299-BASE-PV-ZONE-3.dwg; d0896\d0422299-BASE-STRUCTURE.dwg

FOR CONTINUATION, SEE SHEET PV-C.04.11



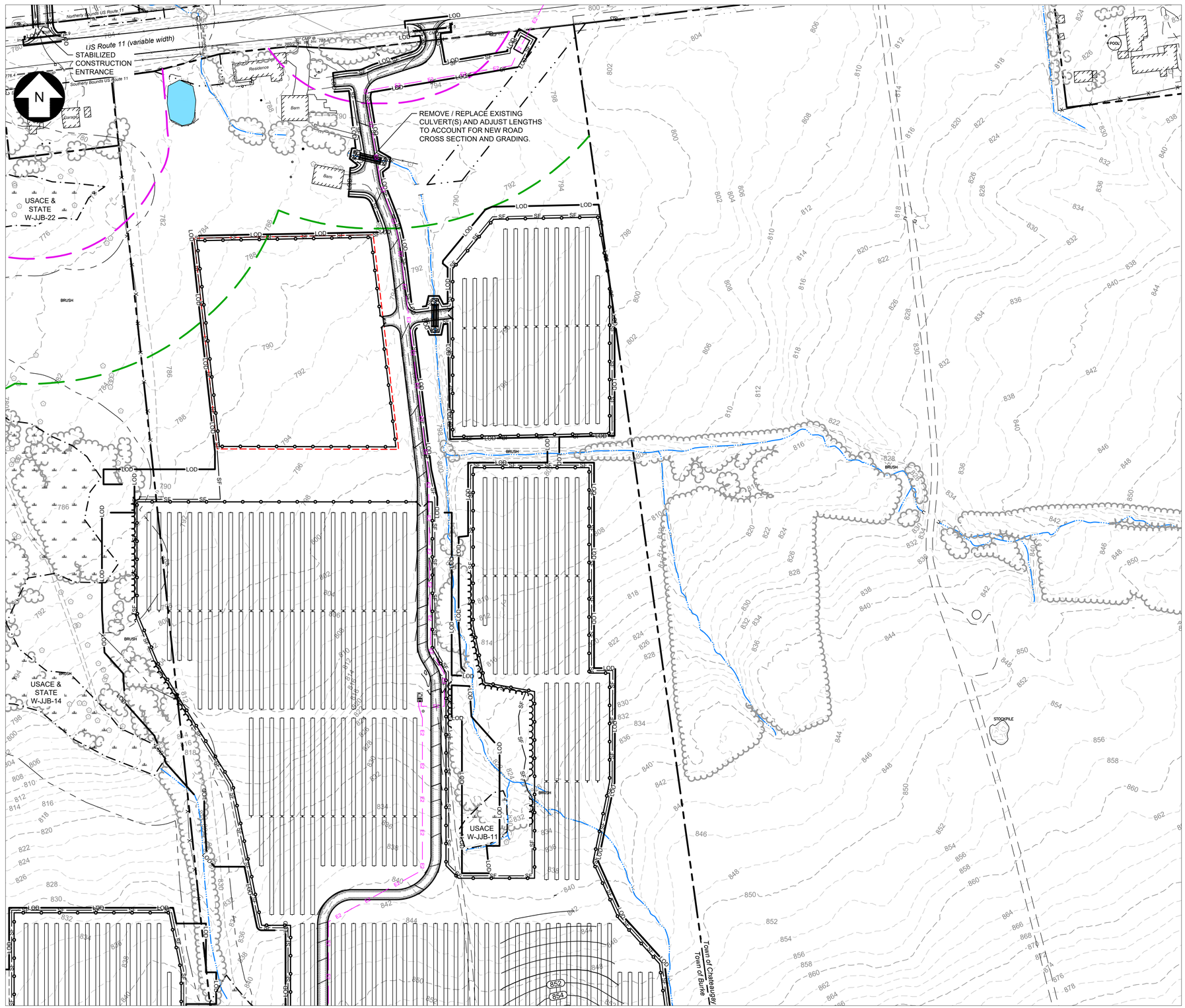
FOR CONTINUATION, SEE SHEET PV-C.04.06

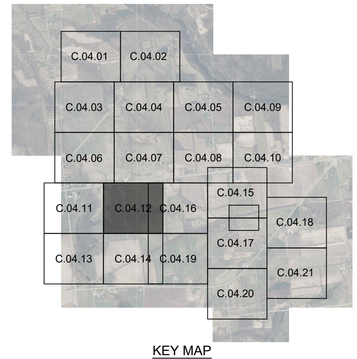
FOR CONTINUATION, SEE SHEET PV-C.04.07

FOR CONTINUATION, SEE SHEET PV-C.04.11

FOR CONTINUATION, SEE SHEET PV-C.04.16

FOR CONTINUATION, SEE SHEET PV-C.04.14




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
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| | VALVE | |
| | CULVERT | |
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| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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PRELIMINARY
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100 0 100 200 FT
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PROJECT TITLE:

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| DWN: | C. WINTERMTUE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.04.12 | 0 |

PLOTTED: 1/19/2022 3:48 PM
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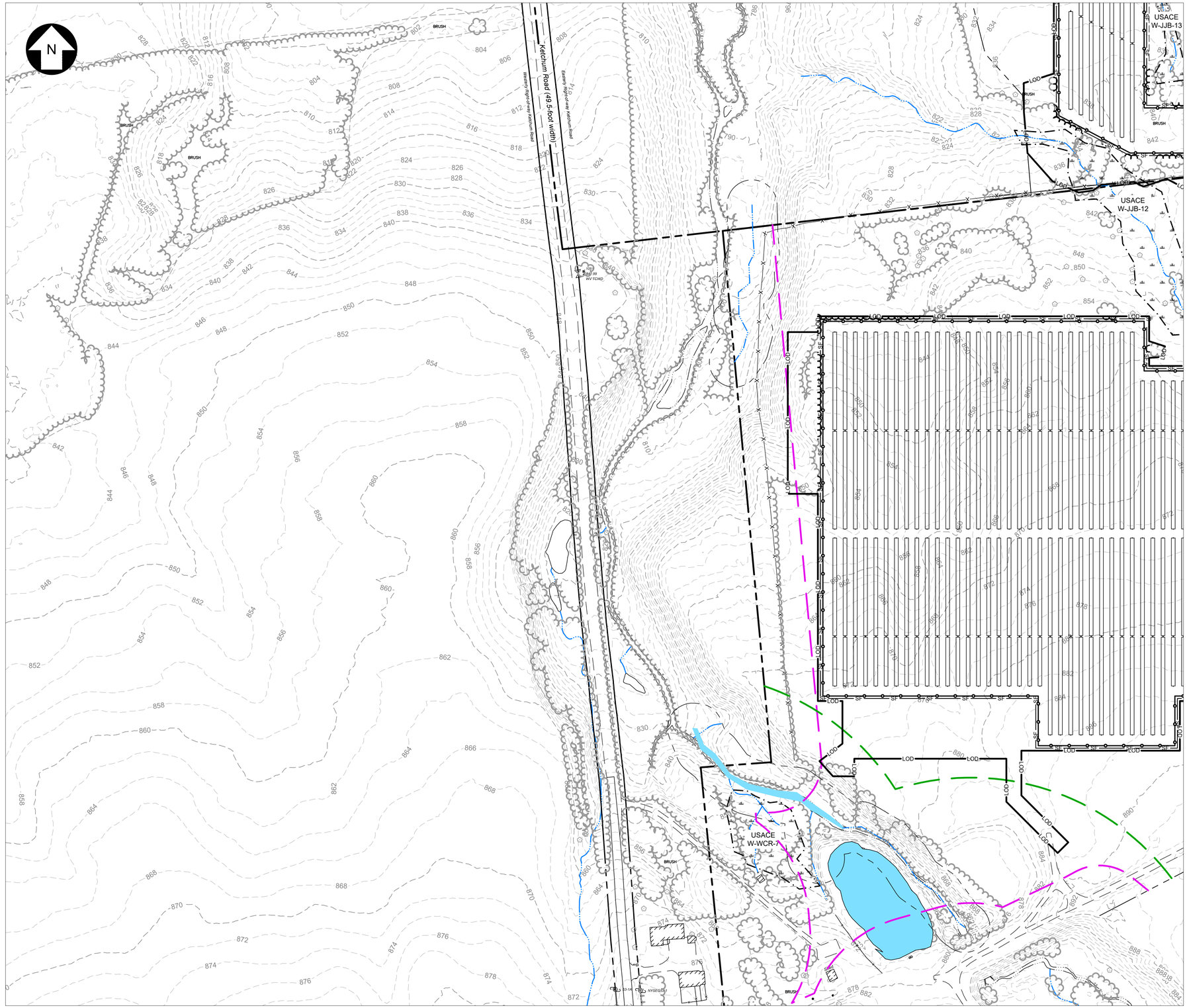
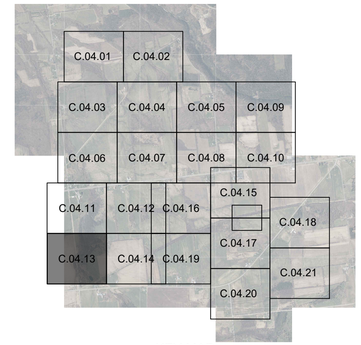
FOR CONTINUATION, SEE SHEET PV-C.04.11




FOR CONTINUATION, SEE SHEET PV-C.04.14




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| BRUSH | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
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| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
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| | PAVED ROAD | |
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PRELIMINARY
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100 0 100 200 FT
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| APV: | - |
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SHEET NO: PV-C.04.13

REV: 0

PLOTTED: 1/19/2022 3:49 PM
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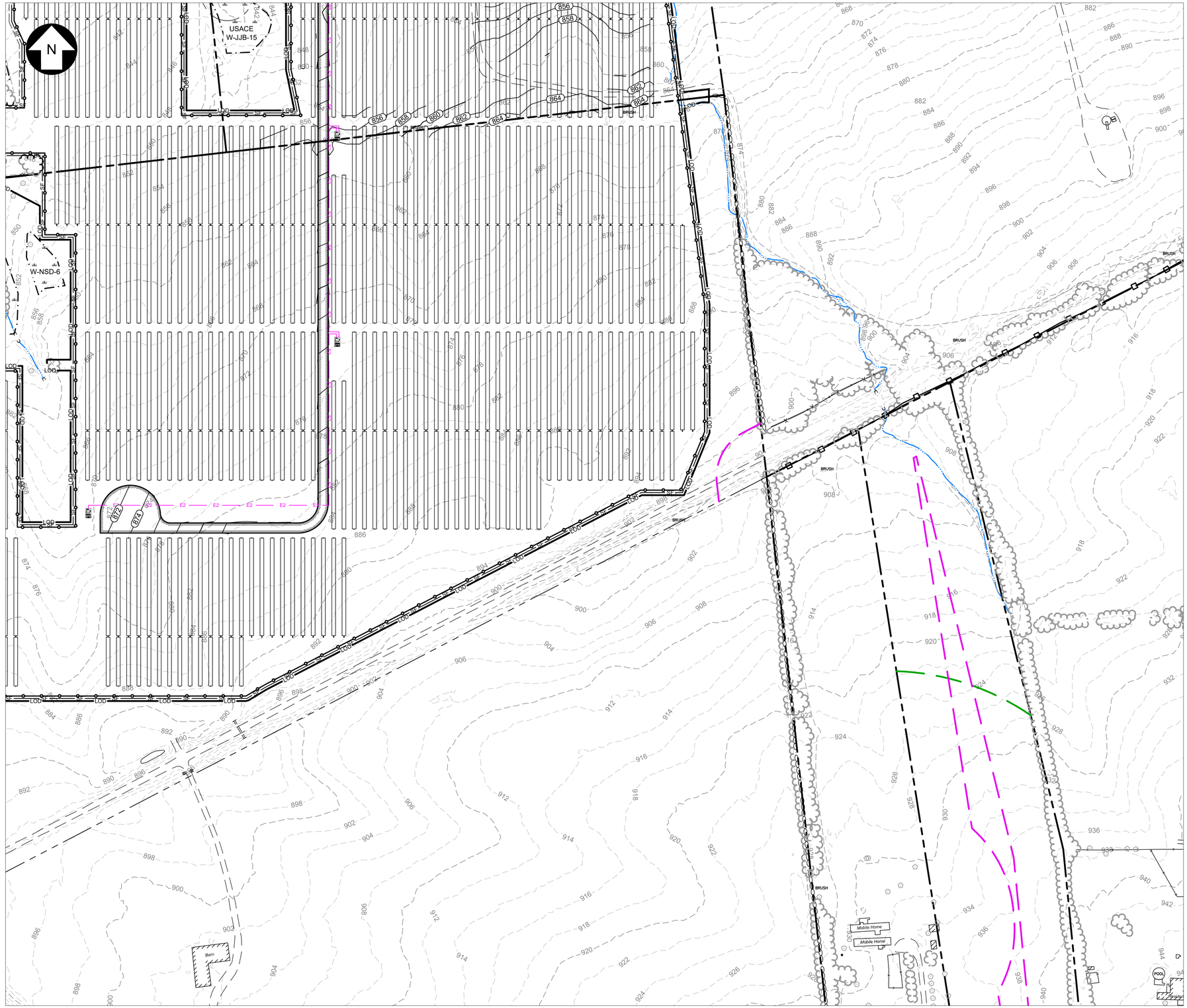
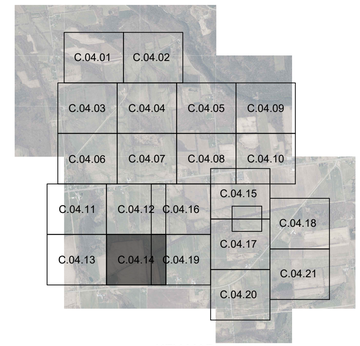
FOR CONTINUATION, SEE SHEET PV-C.04.12

FOR CONTINUATION, SEE SHEET PV-C.04.13

FOR CONTINUATION, SEE SHEET PV-C.04.19




KEY MAP
SCALE: 1" = 3000'

## LEGEND

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PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.14

REV: 0

PLOTTED: 1/19/2022 1:49 PM
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FOR CONTINUATION, SEE SHEET PV-C.04.08

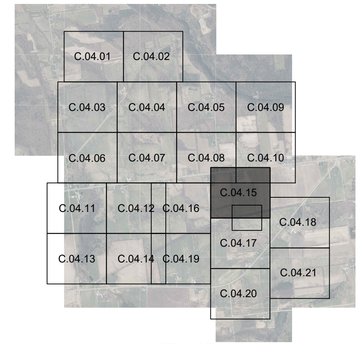
FOR CONTINUATION, SEE SHEET PV-C.04.10




FOR CONTINUATION, SEE SHEET PV-C.04.16

FOR CONTINUATION, SEE SHEET PV-C.04.17

FOR CONTINUATION, SEE SHEET PV-C.04.18




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

aes
2180 South 1300 East, Suite 600
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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.15

REV: 0

PLOTTED: 1/19/2022 3:50 PM
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XREFs: d3899l0042229BASEALL1.dwg, d3899l0042229BASEALL1SHEETS.dwg, d3899l0042229-BASE-NATURAL RESOURCES.dwg, d3899l0042229-BASE-GRADE ZONE 1.dwg, d3899l0042229-BASE-GRADE ZONE 2.dwg, d3899l0042229-BASE-GRADE ZONE 3.dwg, d3899l0042229-BASE-GRADE ZONE 4.dwg, d3899l0042229-BASE-GRADE.dwg, d3899l0042229-BASE-LAYOUT.dwg, d3899l0042229-BASE-PV LAYOUT.dwg, d3899l0042229-BASE-AERIAL.dwg

FOR CONTINUATION, SEE SHEET PV-C.04.07

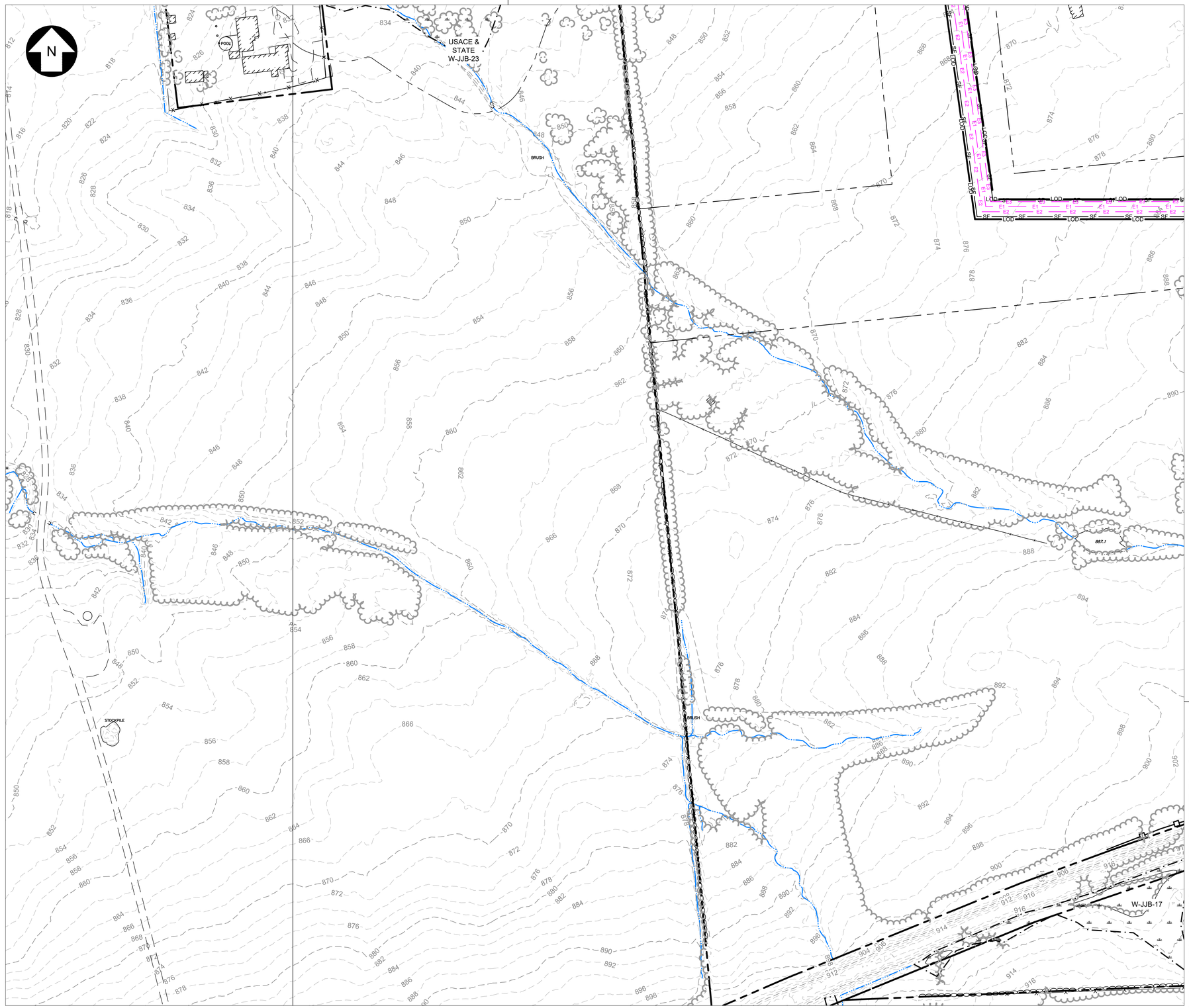
FOR CONTINUATION, SEE SHEET PV-C.04.08

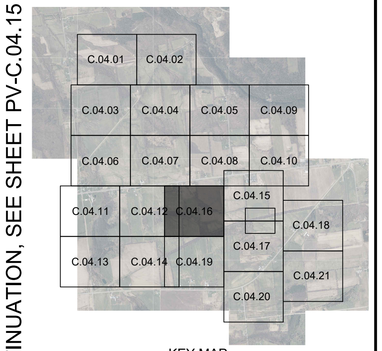
FOR CONTINUATION, SEE SHEET PV-C.04.12

FOR CONTINUATION, SEE SHEET PV-C.04.15

FOR CONTINUATION, SEE SHEET PV-C.04.17

FOR CONTINUATION, SEE SHEET PV-C.04.19




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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PE STAMP:

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DANIEL T BUTLER
LICENSED PROFESSIONAL ENGINEER
079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.16

REV: 0

PLOTTED: 1/19/2022 3:51 PM
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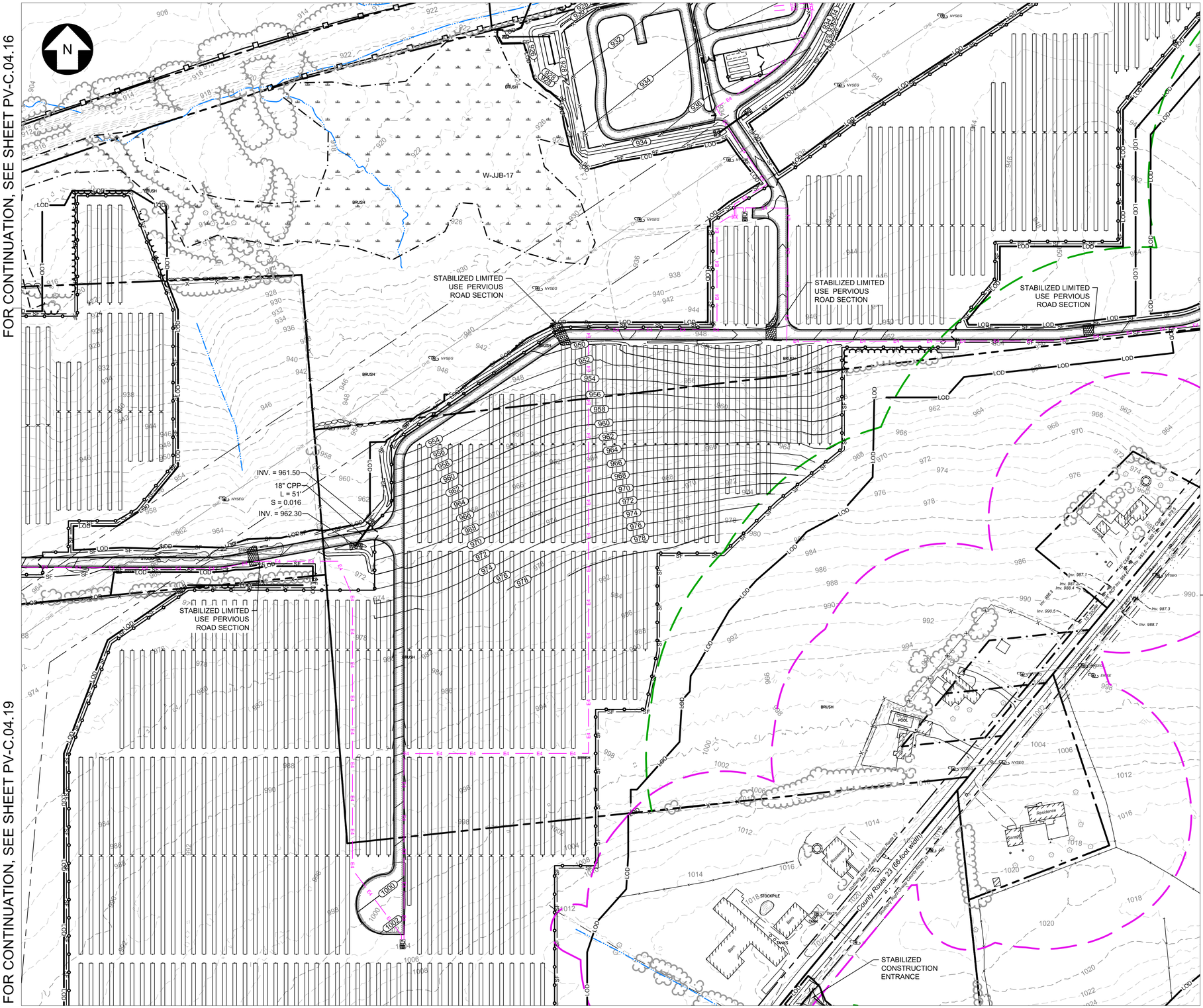
FOR CONTINUATION, SEE SHEET PV-C.04.15

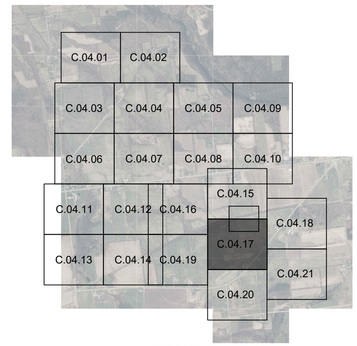
FOR CONTINUATION, SEE SHEET PV-C.04.16

FOR CONTINUATION, SEE SHEET PV-C.04.19

FOR CONTINUATION, SEE SHEET PV-C.04.21

FOR CONTINUATION, SEE SHEET PV-C.04.20




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
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| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. New York Call 811 before you dig

PRELIMINARY
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100 0 100 200 FT
SCALE: 1" = 100'

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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |
| SCALE AT 22" x 34": | 1" = 100' |
| SHEET NO: | PV-C.04.17 |
| REV: | 0 |

PLOTTED: 1/19/2022 3:51 PM
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FOR CONTINUATION, SEE SHEET PV-C.04.15

FOR CONTINUATION, SEE SHEET PV-C.04.17

FOR CONTINUATION, SEE SHEET PV-C.04.21

N

STABILIZED LIMITED USE PERVIOUS ROAD SECTION

STABILIZED CONSTRUCTION ENTRANCE

USACE W-JJB-20

USACE W-JJB-21

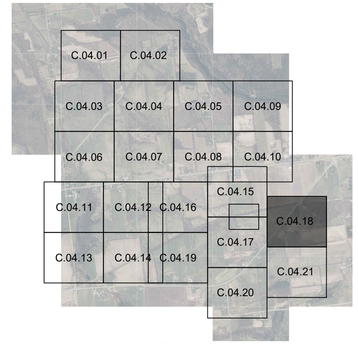
USACE W-NSD-1

USACE W-NSD-2

County Route 23 (66-foot width)

TIRE PILE

TIRE PILE




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
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| | CULVERT | |
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| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

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| APV: | - |
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SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.18

REV: 0

PLOTTED: 1/19/2022 3:42 PM
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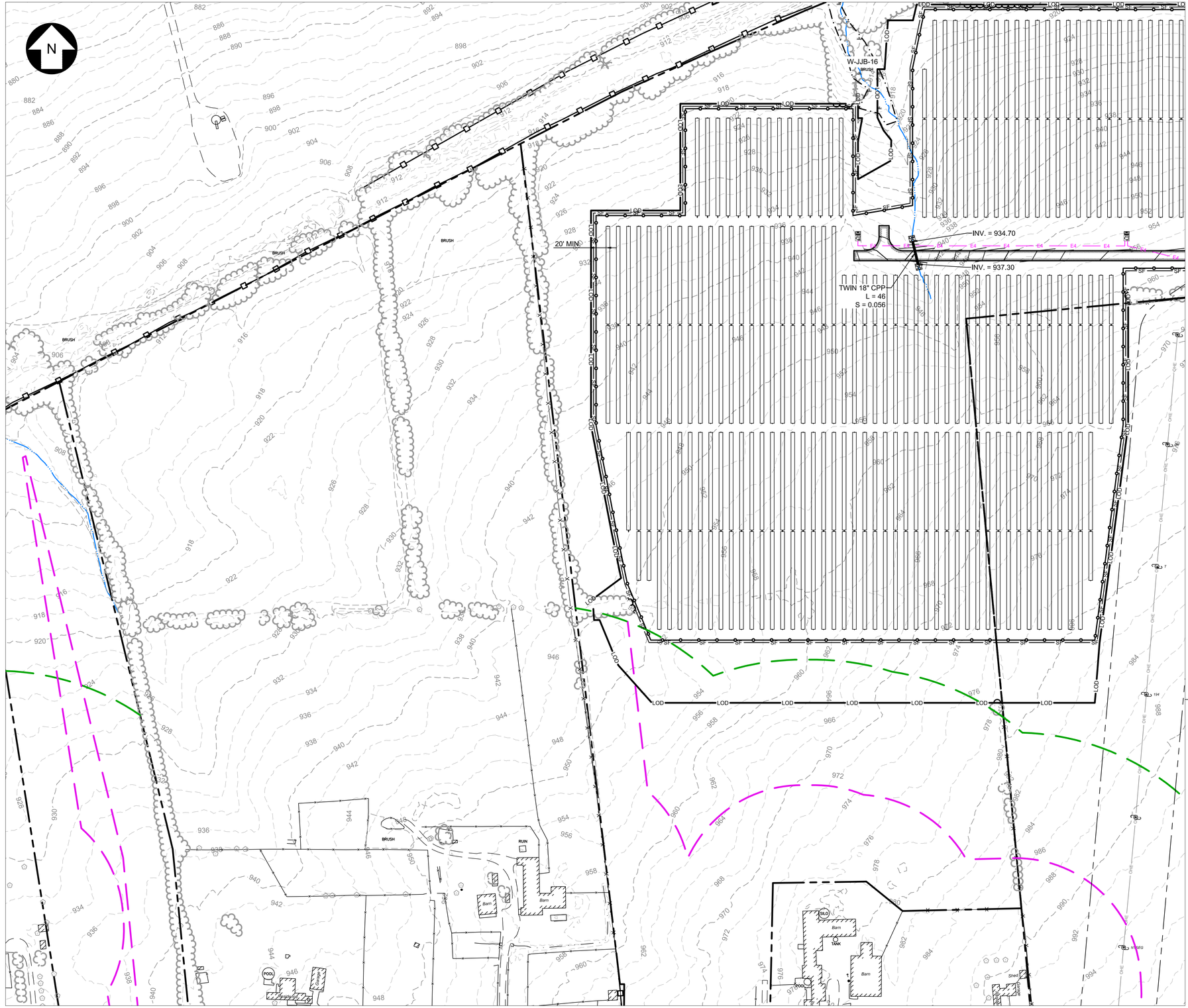
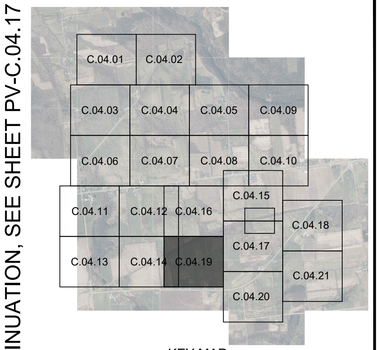
FOR CONTINUATION, SEE SHEET PV-C.04.16

FOR CONTINUATION, SEE SHEET PV-C.04.14

FOR CONTINUATION, SEE SHEET PV-C.04.17

FOR CONTINUATION, SEE SHEET PV-C.04.20




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
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| X X | BARBED WIRE FENCE | X X |
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| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
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| | WATER SURFACE | |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.19

REV: 0

PLOTTED: 1/19/2022 3:42 PM
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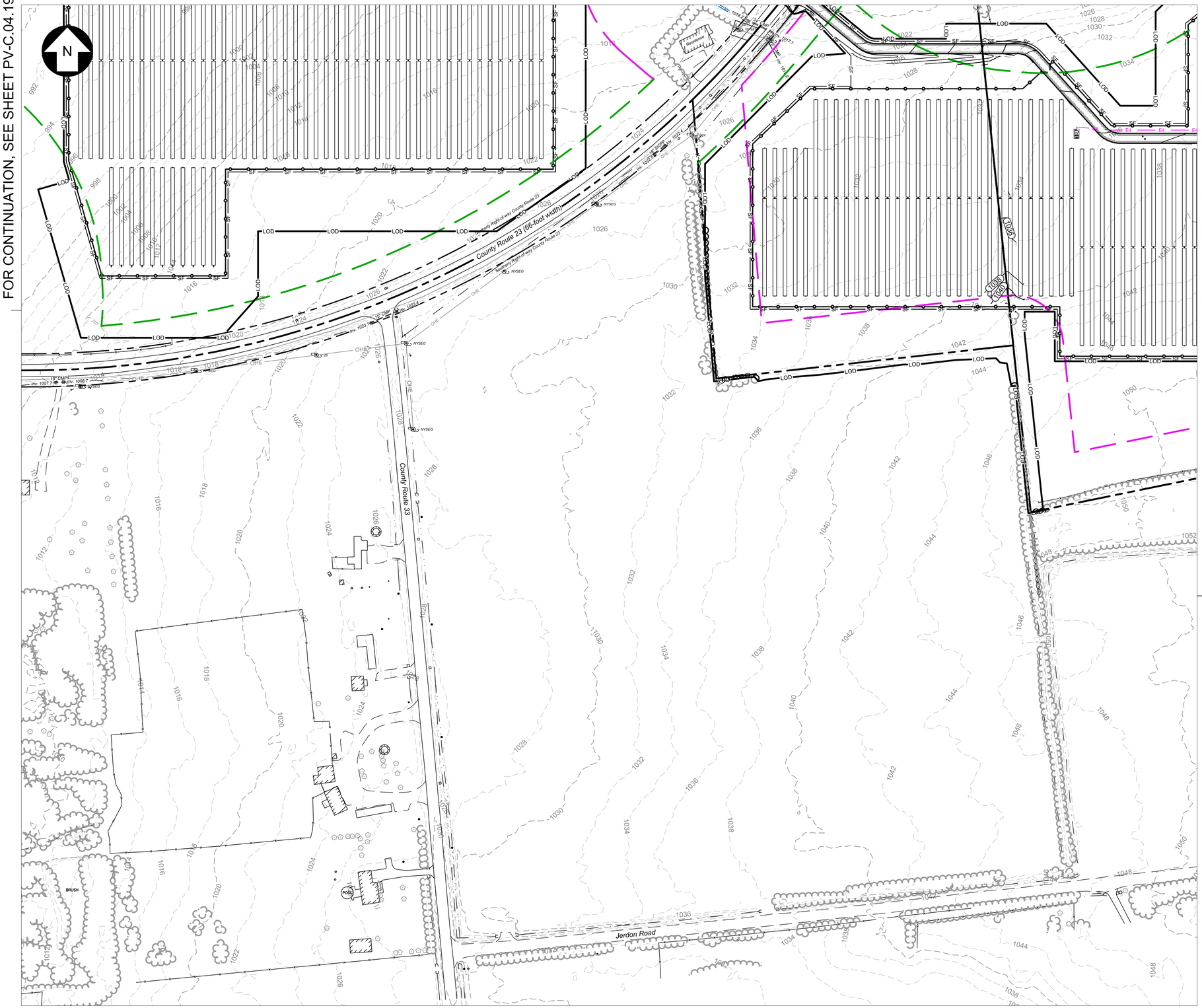
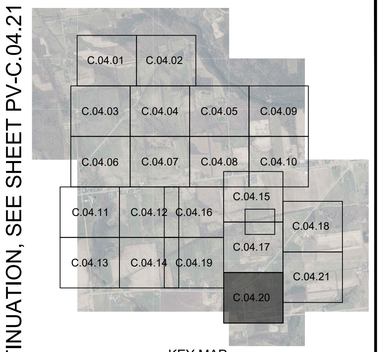
FOR CONTINUATION, SEE SHEET PV-C.04.17

FOR CONTINUATION, SEE SHEET PV-C.04.19

FOR CONTINUATION, SEE SHEET PV-C.04.21




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. New York Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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TRC
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PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

SHEET NO: PV-C.04.20

REV: 0

PLOTTED: 1/19/2022 3:55 PM
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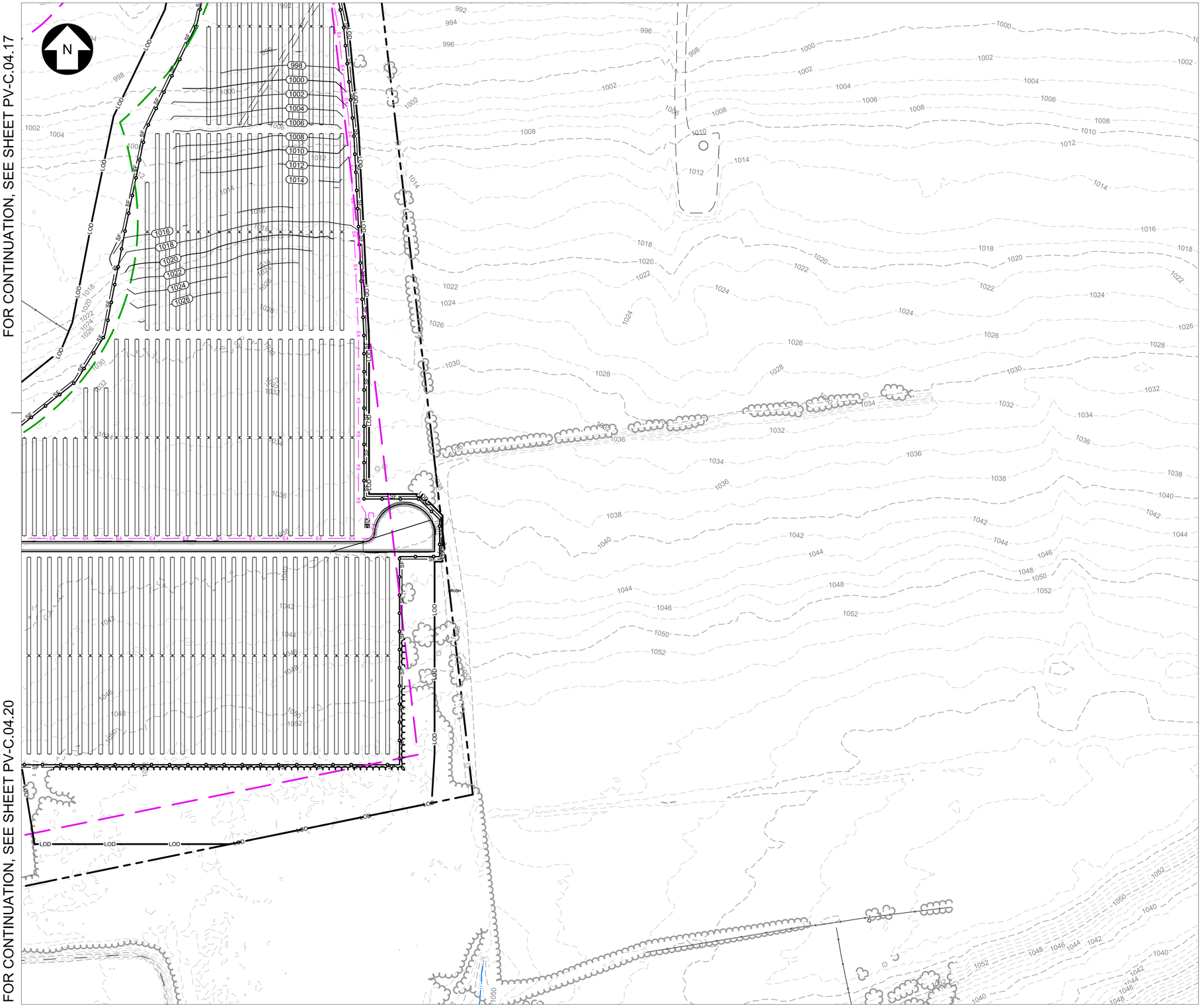
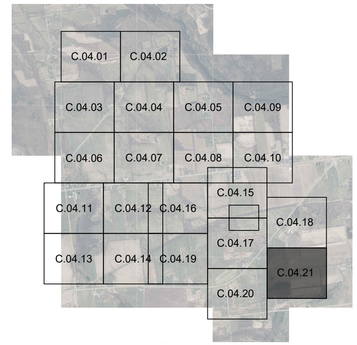
FOR CONTINUATION, SEE SHEET PV-C.04.18

FOR CONTINUATION, SEE SHEET PV-C.04.17

FOR CONTINUATION, SEE SHEET PV-C.04.20




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| LOD | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. New York Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

1" = 100'

| SHEET NO: | REV: |
|---|---|
| PV-C.04.21 | 0 |

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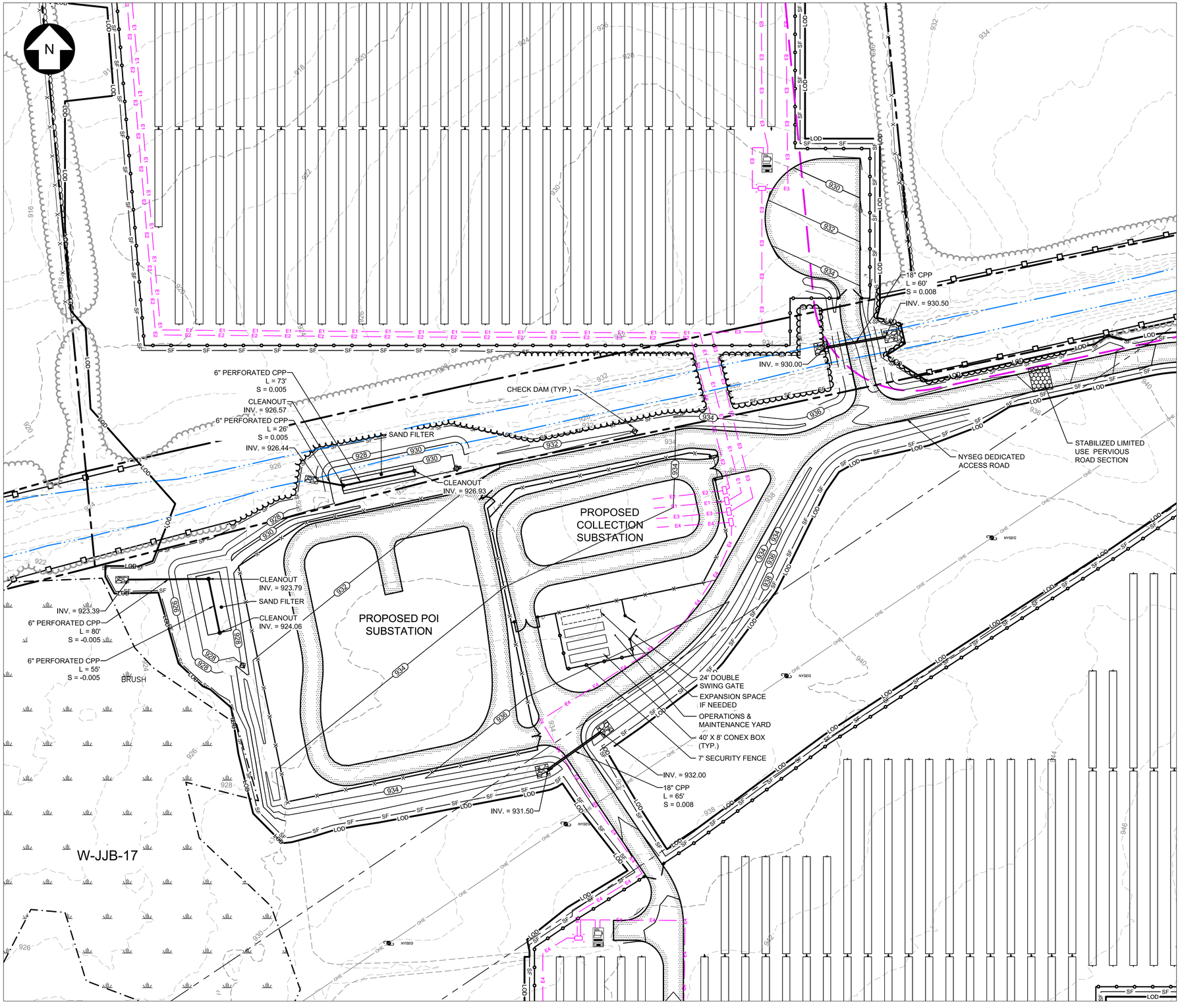


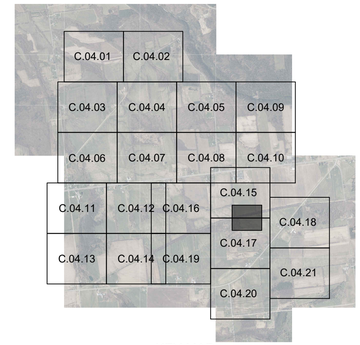


KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| LOD | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
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| | COLLECTOR LINE | E1 |
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| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

Dig Safely. Know what's Call 811 before you dig.

PRELIMINARY
NOT FOR CONSTRUCTION

50 0 50 100 FT
SCALE: 1" = 50'

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SUBSTATION INSET

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | J. HEIDIG |
| DWN: | J. HEIDIG |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/25/2021 |

SCALE AT 22" x 34":

1" = 50'

SHEET NO: PV-C.04.22

REV: 0

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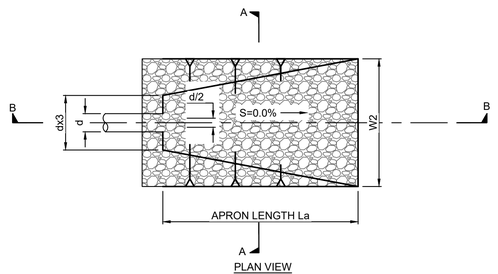
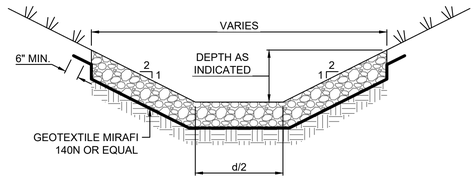



PLAN VIEW




SECTION A-A

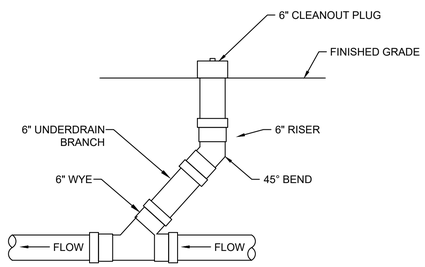
| OUTLET PROTECTION DIMENSIONS | |
|---|---|
| D50 | 6 IN |
| THICKNESS | 15 IN |
| d | SEE PLAN |
| La | 12 FT |
| W2 | 12 FT |

NOTES:

1. CONSTRUCT RIPRAP PROTECTION IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

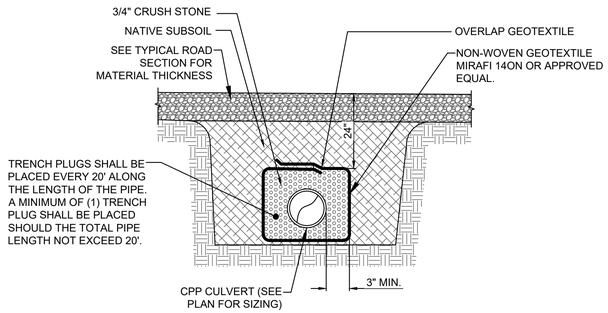
## RIPRAP OUTLET PROTECTION

SCALE: N.T.S.




## CLEANOUT DETAIL

SCALE: N.T.S.




NOTES:

SUBSURFACE DRAIN SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS ON EROSION AND SEDIMENT CONTROL.

PROVIDE DRAIN OUTLET TO GRADE, ROAD DITCH, DRAIN STRUCTURE OR OTHER APPROVED DEVICE.

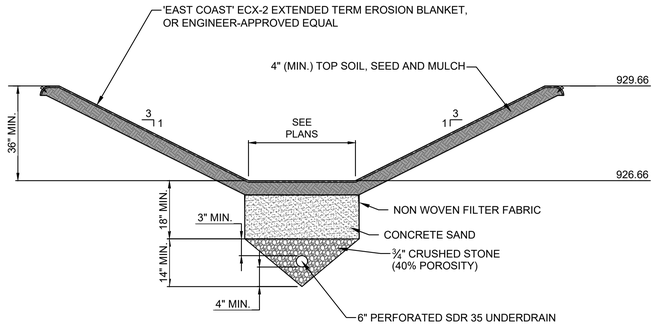
PROVIDE EROSION PROTECTION AND SOIL STABILIZATION IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND TEMPORARY SEDIMENT CONTROL.

TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR RE-USE AFTER DRAIN CONSTRUCTION. DECOMPACT SOIL WITHIN AGRICULTURAL FIELDS, REMOVE ROCKS AND RESTORE GROUND COVER AS REQUIRED BY THE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS GUIDELINES FOR AGRICULTURAL MITIGATION FOR WIND PROJECTS.

DRAIN SHALL BE PROVIDED IN CUT SLOPES WHERE INDICATED AND ELSEWHERE AS DETERMINED NECESSARY TO LIMIT EROSION.

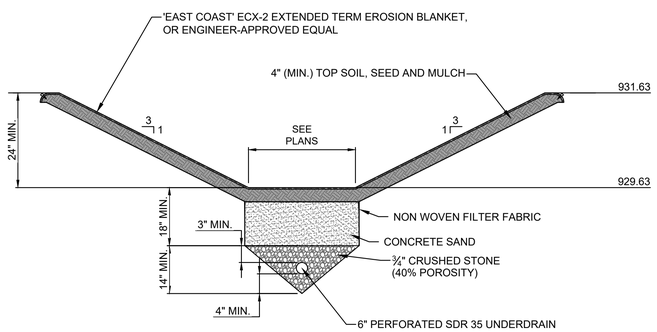
## TYPICAL SUBSURFACE DRAIN DETAIL

SCALE: N.T.S.




## SAND FILTER DETAIL (SF-1)

SCALE: N.T.S.




## SAND FILTER DETAIL (SF-2)

SCALE: N.T.S.

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GRADING AND DRAINAGE DETAILS

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

AS NOTED

SHEET NO: PV-C.05.01

REV: 0

AES Titleblock 22X34_v210119
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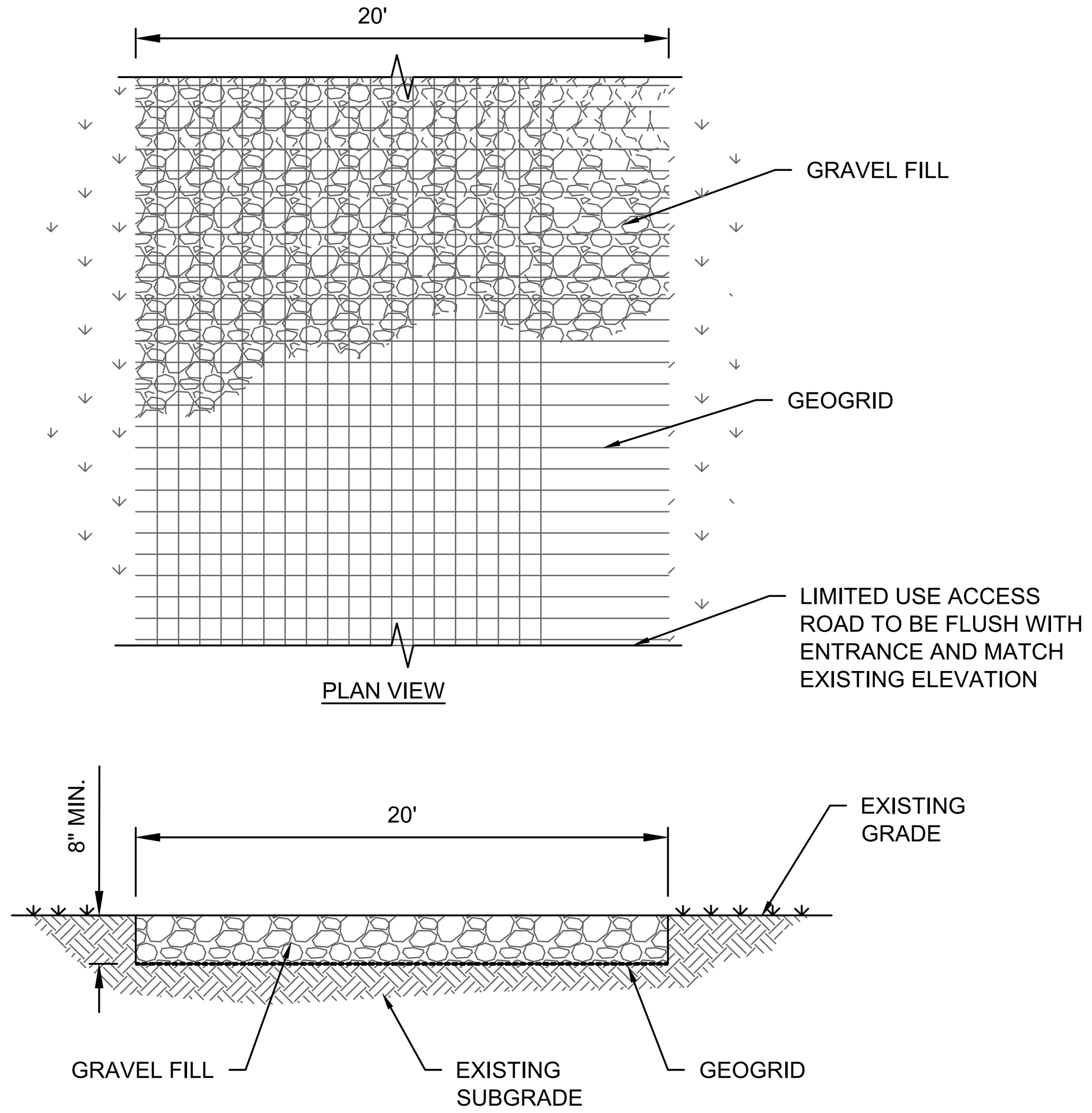


# LIMITED USE PERVIOUS ACCESS ROAD

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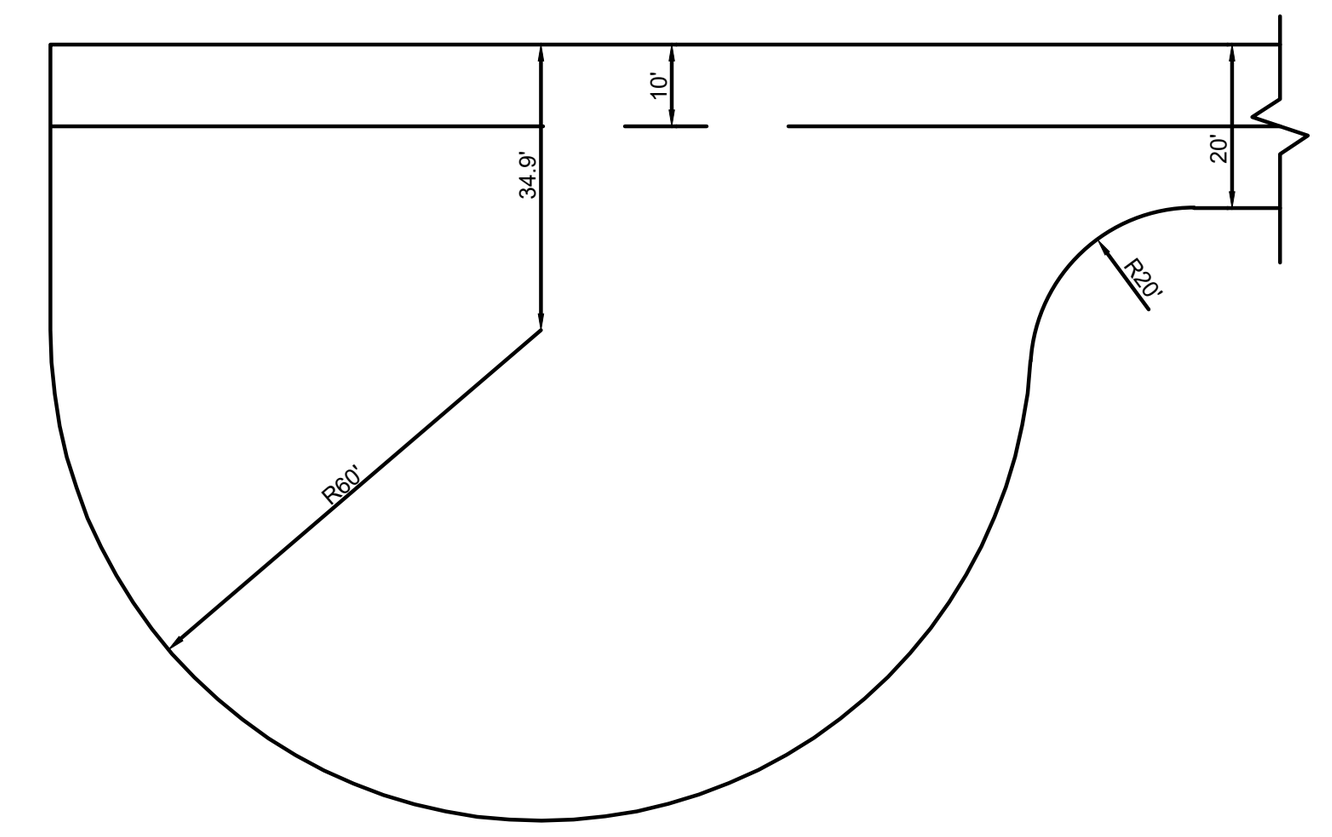


# TYPICAL ACCESS ROAD TURN AROUND (RADIAL)

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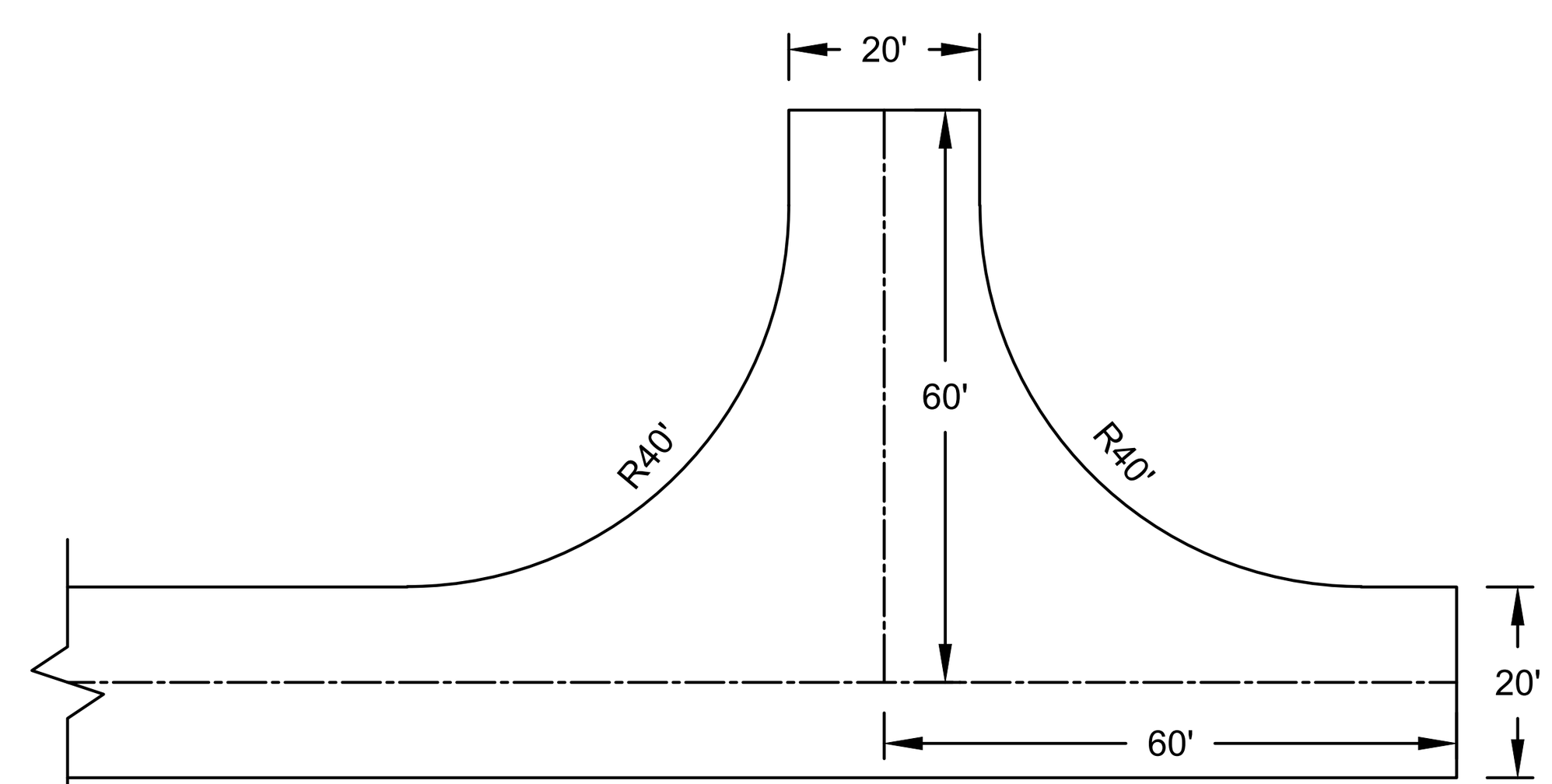


# TYPICAL ACCESS ROAD TURN AROUND

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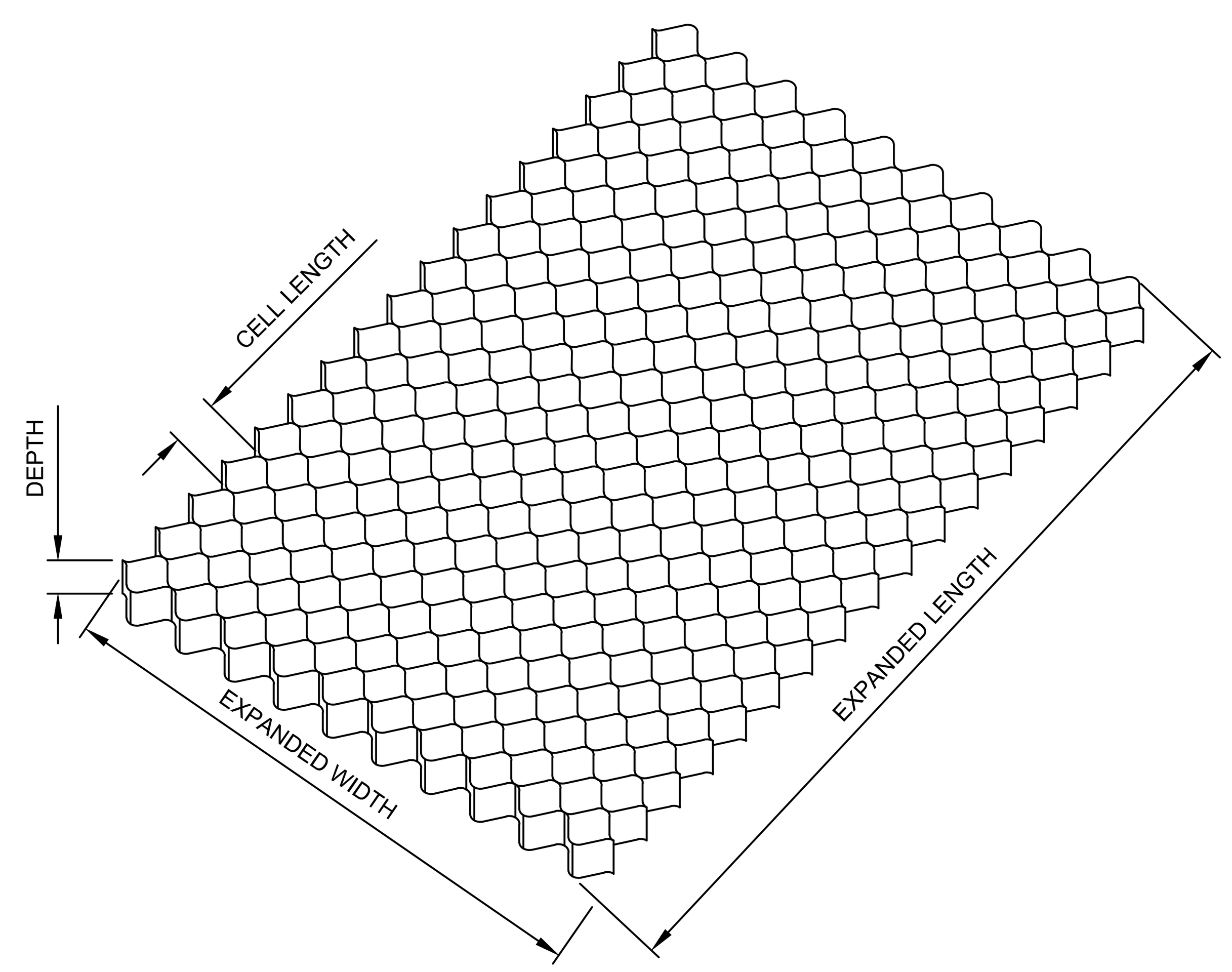
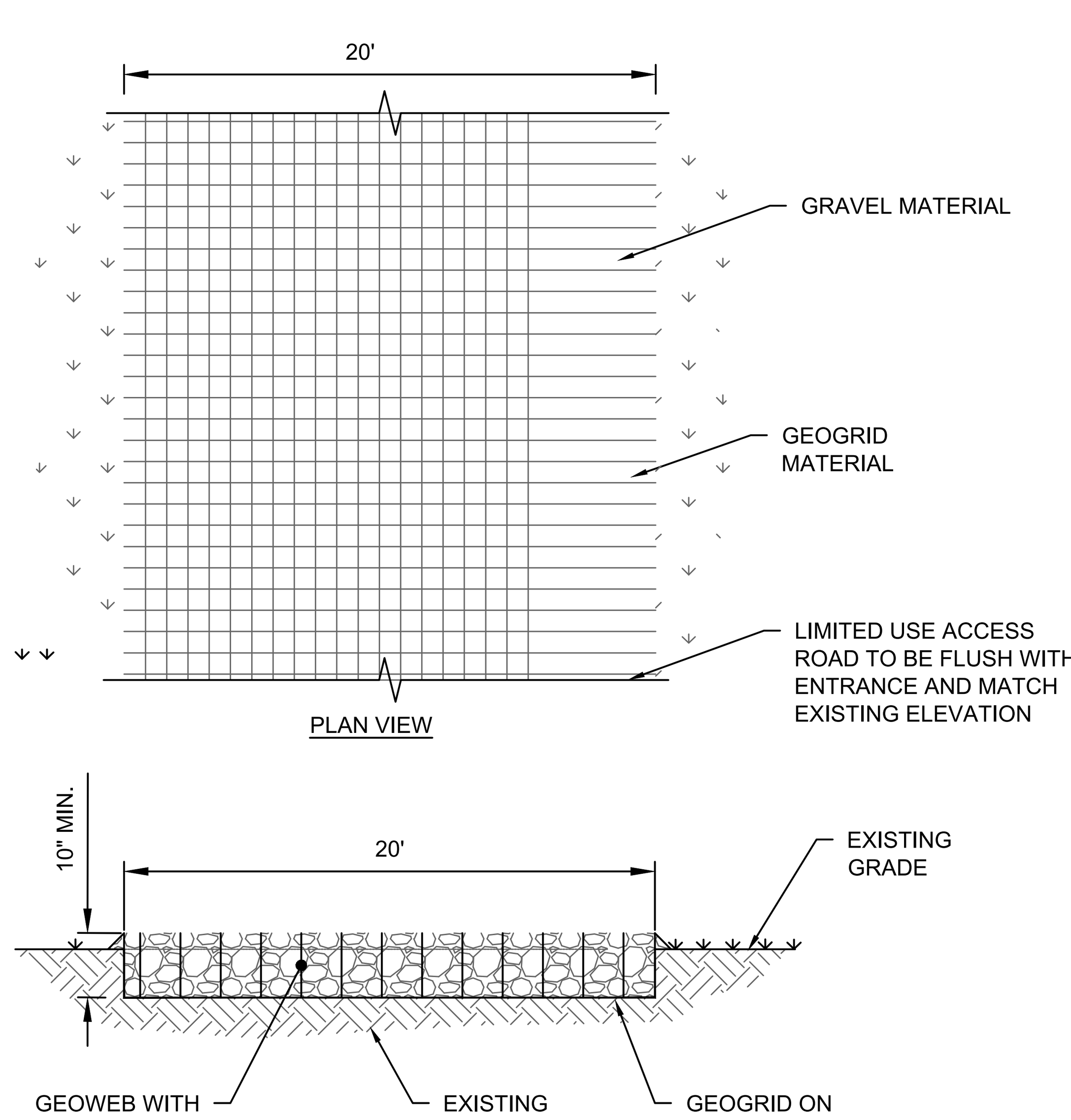
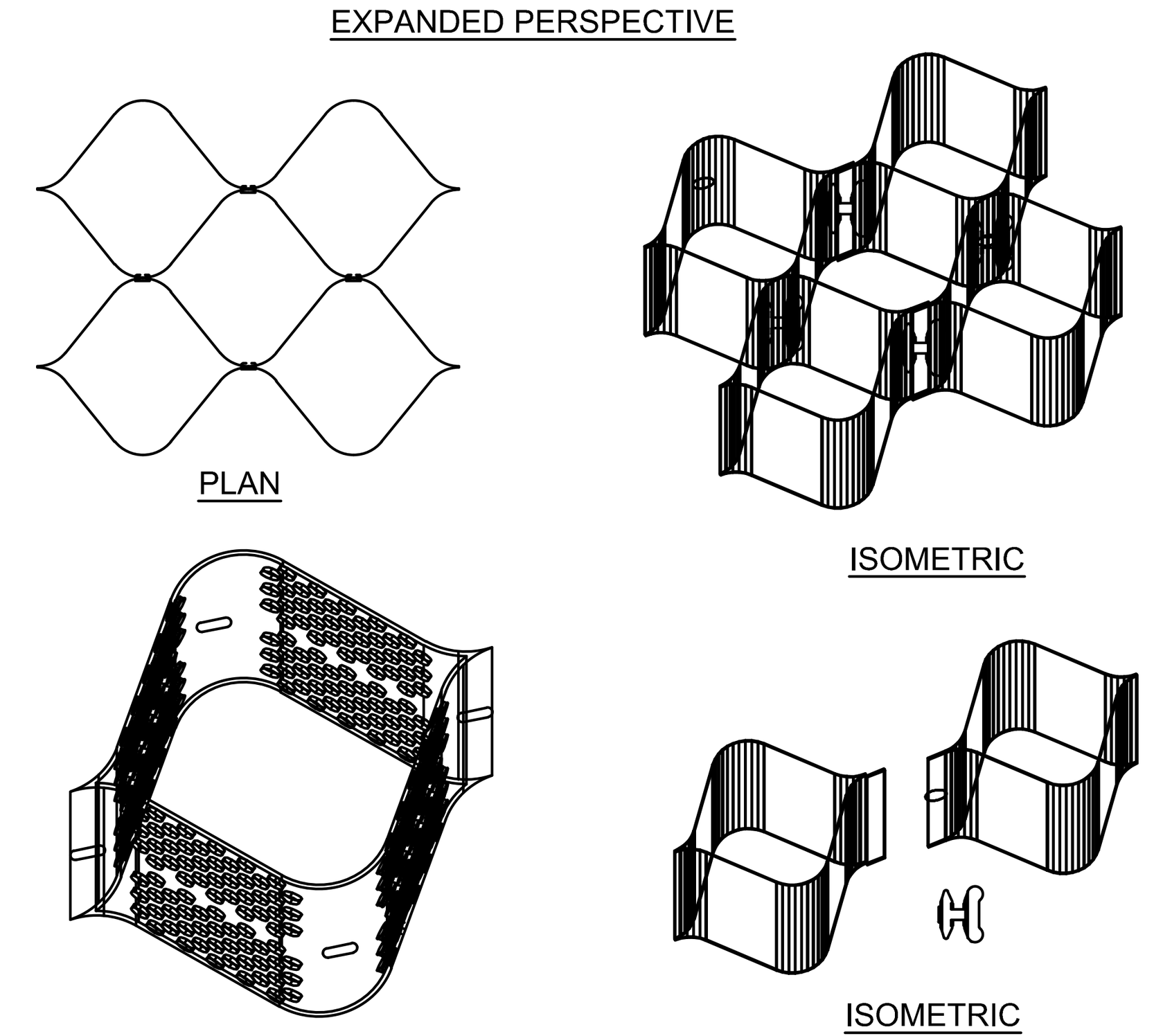



EXPANDED PERSPECTIVE




**CELLULAR CONFINEMENT SYSTEM - GEOWEB**

# STABILIZED LIMITED USE PERVIOUS ACCESS ROAD

SCALE: N.T.S.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PERVIOUS ACCESS ROAD GENERAL NOTES:

1. LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE, EMERGENCY VEHICLES, ETC.).
2. LIMITED USE PERVIOUS ACCESS ROAD IS RESTRICTED TO POST-CONSTRUCTION, LOW IMPACT, MAINTENANCE/EQUIPMENT REPAIR ACTIVITIES ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
3. CONSTRUCT LIMITED USE PERVIOUS ACCESS ROAD TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION PLANS.
4. USE OF STABILIZED PERVIOUS ACCESS ROAD:
   - 4.1. STABILIZED PERVIOUS ACCESS ROADS SHALL BE CONSTRUCTED IN AREAS WHERE THE SLOPE OF THE ROAD EXCEEDS 8%. THE GEOWEB WILL HOLD THE ROAD MATERIAL IN PLACE UNDER TRAFFIC LOADS.
   - 4.2. STABILIZED PERVIOUS ACCESS ROADS SHALL BE CONSTRUCTED IN AREAS WITH SOFT OR PLACID SOILS, WHERE ADDITIONAL STRUCTURAL SUPPORT IS NEEDED TO SUPPORT TRAFFIC LOADS.
   - 4.3. STABILIZED PERVIOUS ROAD SECTION IS INTENDED AS A STABILIZATION METHOD FOR ROAD MATERIALS IN LOCATIONS WHERE STORMWATER RUNOFF MAY FLOW ACROSS THE ACCESS ROAD. THE OPEN-GRADED STONE WILL ALLOW LOW FLOWS TO PASS THROUGH THE ROAD MATERIAL WHILE HIGHER FLOWS WILL PASS OVER THE ROAD. THE CELLULAR CONFINEMENT SYSTEM (GEOWEB) WILL PREVENT EROSION OF THE ROAD MATERIAL. THIS APPROACH MINIMIZES IMPACTS TO EXISTING RUNOFF PATTERNS.
5. STABILIZED PERVIOUS ROAD SECTIONS SHALL BE INSTALLED AT NATURAL LOW POINTS OF THE ACCESS ROADS AND TERRAIN WHERE STORMWATER RUNOFF IS LIKELY TO BE CONCENTRATED DUE TO EXISTING HYDROLOGY/TOPOGRAPHY, AND CULVERT INSTALLATION IS IMPRACTICAL DUE TO LIMITED COVER.
6. REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
7. REMOVED TOPSOIL MAY BE STOCKPILED FOR LATER USE OR SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
8. PREPARE SUBGRADE AS NEEDED TO ACHIEVE LINES AND GRADES SHOWN ON CONSTRUCTION PLANS.
9. REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER OR ENVIRONMENTAL INSPECTOR. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
10. ROADWAY WIDTH TO BE INSTALLED AS SHOWN ON PLANS.
11. THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL NOT EXCEED 2.5% THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHALL NOT EXCEED 8% UNLESS OTHERWISE INDICATED ON THE GRADING PLANS. IN NO CASE SHALL THE SLOPE EXCEED 12%.
12. LIMITED USE PERVIOUS ACCESS ROAD IS NOT TO BE UTILIZED FOR CONSTRUCTION TRAFFIC WHICH MAY SUBJECT THE ACCESS ROAD TO SEDIMENT TRACKING.
13. PRIOR TO PERVIOUS ACCESS ROAD CONSTRUCTION, SOIL PENETROMETER TESTING SHALL BE PERFORMED AT NO GREATER THAN 100-FOOT INTERVALS ALONG THE ACCESS ROAD ALIGNMENT. AFTER THE SUBGRADE HAS BEEN PREPARED AND PRIOR TO PLACEMENT OF GEOGRID AND GRAVEL, SOIL PENETROMETER TESTING SHALL BE PERFORMED AGAIN TO VERIFY THAT SOIL COMPACTION DOES NOT EXCEED PRE-CONSTRUCTION CONDITIONS. SOIL RESTORATION PRACTICES SHALL BE REQUIRED TO DE-COMPACT SOILS IN AREAS WHERE THIS CRITERION IS NOT MET.
14. TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE LIMITED USE PERVIOUS ACCESS ROAD, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STABILIZED CONSTRUCTION ACCESS/ENTRANCE IS REQUIRED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
15. THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS ROAD HAVE ACHIEVED FINAL STABILIZATION.
16. IF A ROADSIDE DITCH IS NOT UTILIZED TO CAPTURE RUNOFF FROM THE ACCESS ROAD, THE PERVIOUS ACCESS ROAD WILL HAVE A WELL-ESTABLISHED PERENNIAL VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION, 20 FEET PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THIS VEGETATIVE COVER TO ENSURE STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.

GEOGRID MATERIAL NOTES:

1. GEOGRID, OR APPROVED EQUIVALENT PRODUCT, SHALL BE USED FOR ALL CONDITIONS IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE STRUCTURAL STRENGTH.
2. GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, WASHED, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-0201, SIZE DESIGNATION 3, 4A OR 4 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
3. GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
4. IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
5. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
6. LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH 1"-4" WASHED CRUSHED STONE MEETING NYSDOT ITEM 703-0201, SIZE DESIGNATION 3, 4A OR 4 OF TABLE 703-4 SPECIFICATIONS.

BASIS OF DESIGN: TENCATE MIRAFI BXG110 GEOGRIDS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA;800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

GEOWEB MATERIAL NOTES:

1. CELLULAR CONFINEMENT SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB GW30V, OR APPROVED EQUIVALENT PRODUCT. MINIMUM CELL DEPTH SHALL BE 6".
2. INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. GRAVEL FILL MATERIAL SHALL CONSIST OF CLEAN, WASHED, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-02, SIZE DESIGNATION 3, 4A OR 4 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
4. ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH 2"-4" WASHED CRUSHED STONE MEETING NYSDOT ITEM 703-0201, SIZE DESIGNATION 3, 4A OR 4 OF TABLE 703-4 SPECIFICATIONS.
5. THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE I-SLOTS FOR INTERLEAF AND END TO END CONNECTIONS. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAD AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER INSTALLATION, TYING AND CONNECTIONS.

BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFO@PRESTOGEO.COM; WWW.PRESTOGEO.COM

WOVEN GEOTEXTILE MATERIAL NOTES:

1. GEOTEXTILE SHALL BE RS280i OR APPROVED EQUIVALENT.
2. SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS, OR AS DIRECTED BY PROJECT ENGINEER OR ENVIRONMENTAL INSPECTOR.

BASIS OF DESIGN: TENCATE MIRAFI RSi-SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA;800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

PERVIOUS ACCESS ROAD DESIGN NOTES:

1. THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL NOT EXCEED 2.5%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHALL NOT EXCEED 12%.
2. A DRAINAGE DITCH IS REQUIRED FOR CIRCUMSTANCES WHERE CONCENTRATING FLOW CAN NOT BE AVOIDED. THE INTENTION OF THIS DESIGN IS TO MINIMIZE ALTERATIONS TO HYDROLOGY, HOWEVER WHEN DEALING WITH 2%-15% GRADES NOT PARALLEL TO THE CONTOUR, A ROADSIDE DITCH MAY BE REQUIRED. THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED WATERWAYS AND VEGETATED WATERWAYS ARE APPLICABLE FOR SIZING AND STABILIZATION. DIMENSIONS FOR THE GRASSED WATERWAY SPECIFICATION WOULD BE DESIGNED FOR PROJECT SPECIFIC HYDROLOGIC RUNOFF CALCULATIONS, AND A SEPARATE DETAIL FOR THE SPECIFIC GRASSED WATERWAY WOULD BE INCLUDED IN THIS PRACTICE. RUNOFF DISCHARGES WILL BE SUBJECT TO THE OUTLET REQUIREMENTS OF THE REFERENCED STANDARD. INCREASED POST-DEVELOPMENT RUNOFF FROM THE ASSOCIATED ROADSIDE DITCH MAY REQUIRE ADDITIONAL PRACTICES TO ATTENUATE RUNOFF TO PRE-DEVELOPMENT CONDITIONS.
3. THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USE PERVIOUS ACCESS ROAD IN THEIR SITE ASSESSMENT/HYDROLOGY ANALYSIS. IF THE HYDROLOGY ANALYSIS SHOWS THAT THE HYDROLOGY HAS BEEN ALTERED FROM PRE- TO POST-DEVELOPMENT CONDITIONS (SEE APPENDIX A OF GP-0-20-001 FOR THE DEFINITION OF "ALTER THE HYDROLOGY..."), THE DESIGN MUST INCLUDE THE NECESSARY DETENTION/RETENTION PRACTICES TO ATTENUATE THE RATES (10 AND 100 YEAR EVENTS) TO PRE-DEVELOPMENT CONDITIONS.

GEOWEB MATERIAL NOTES:

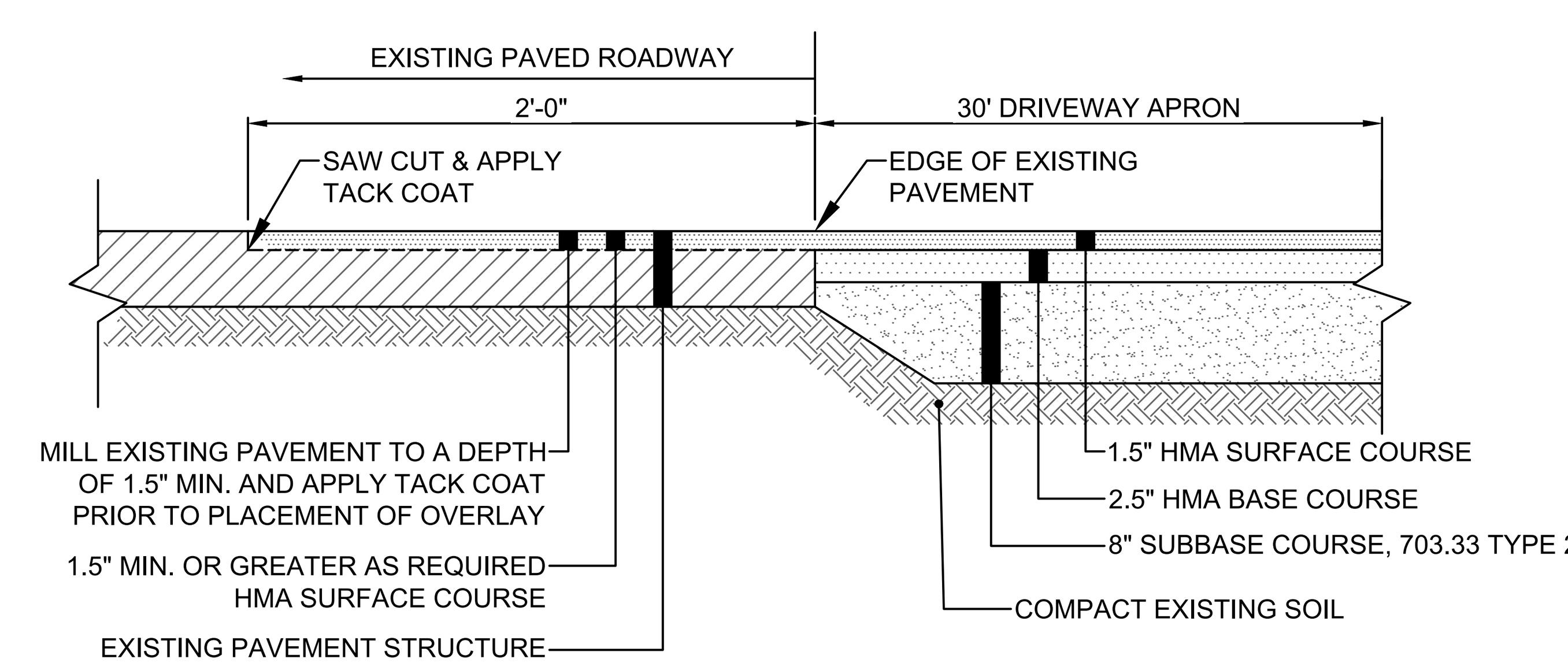
1. THE GEOWEB, OR COMPARABLE PRODUCT, IS SHALL BE USED ON ROAD PROFILES EXCEEDING 8%. THE GEOWEB PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.
2. GEOWEB SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL. GEOWEB SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED ACCESS ROAD SLOPES.

BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFO@PRESTOGEO.COM; WWW.PRESTOGEO.COM

WOVEN GEOTEXTILE MATERIAL NOTES:

1. SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OF C OR D, OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST, OR GEOTECHNICAL DATA.
2. THE CONCERN FOR POTENTIAL REDUCTION OF NATIVE INFILTRATION RATES DUE TO THE GEOTEXTILE MATERIAL WOULD NOT BE A SIGNIFICANT CONCERN IN POORLY DRAINED SOILS WHERE SEGREGATION OF PERVIOUS STONE AND NATIVE MATERIALS IS CRUCIAL FOR LONG TERM OPERATION AND MAINTENANCE.

BASIS OF DESIGN: TENCATE MIRAFI RSi-SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA;800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM




NOTES:
1. PAVED DRIVEWAY APRON SHALL MEET ALL NYSDOT REQUIREMENTS FOR A MINOR COMMERCIAL DRIVEWAY ACCESSED FROM A STATE HIGHWAY.

# PAVED DRIVEWAY APRON

SCALE: N.T.S.

Dig Safely. New York Call 811 before you dig

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aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

DRIVEWAY AND ROAD DETAILS

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| | |
|---|---|
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| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
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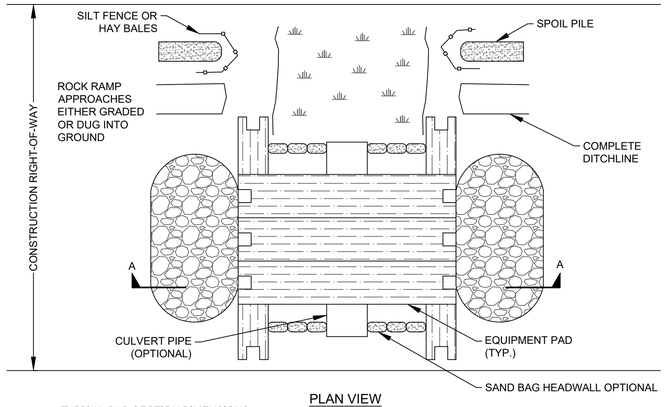
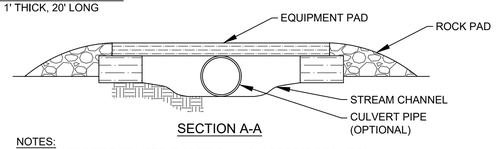



PLAN VIEW

TYPICAL PAD SECTION DIMENSIONS
3' WIDE, 1' THICK, 20' LONG




SECTION A-A

NOTES:
1. CULVERT PIPE UTILIZED IF ADDITIONAL SUPPORT IS REQUIRED.
2. ADDITIONAL PADS CAN BE PUT SIDE BY SIDE IF EXTRA WIDTH IS REQUIRED.
3. EQUIPMENT PAD TYPICALLY CONSTRUCTED OF HARDWOOD; MUST ACCOMMODATE THE LARGEST EQUIPMENT USED.
4. ROCK PADS OR CRUSHED STONE SHALL BE USED AT ENTRANCE TO THE EQUIPMENT PADS (IF NECESSARY).

## TEMPORARY EQUIPMENT BRIDGE

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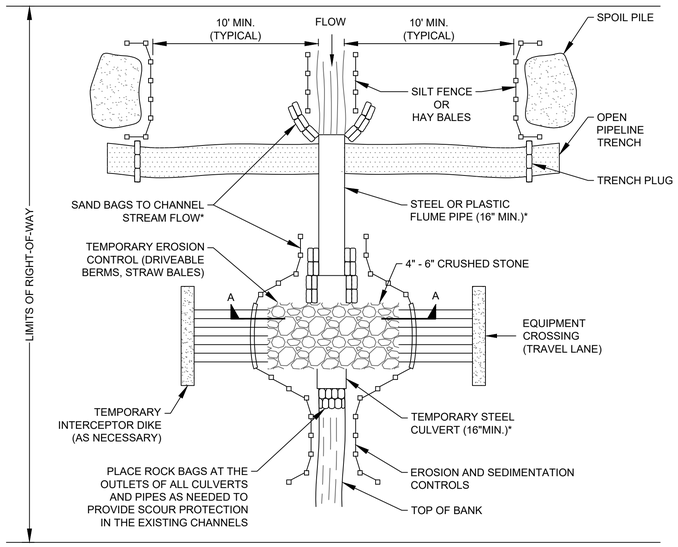
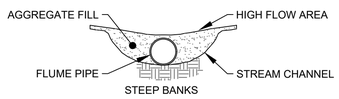



PLAN VIEW




SECTION A-A

* IF WELDED PIPE IS USED SAND BAGS AT JOINTS NOT REQUIRED. ACTUAL NUMBERS OF FLUMES AND CULVERT PIPE REQUIRED TO BE DETERMINED BY STREAM WIDTH.

## TYPICAL FLUMED STREAM CROSSING

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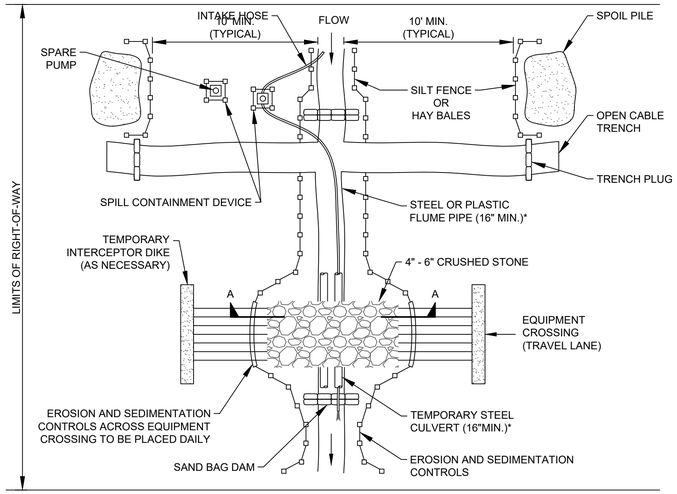
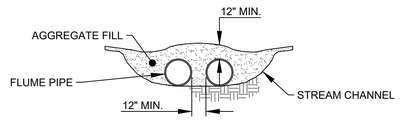



PLAN VIEW




SECTION A-A

NOTES:
1. EXCAVATE ACROSS STREAM CHANNEL FOLLOWING WATER RE-ROUTING.
2. LOWER PIPE UNDER HOSE AND BACKFILL.
3. MONITOR PUMPS AT ALL TIMES DURING STREAM CROSSING PROCEDURE.
4. REMOVE SILT FENCE/HAY BALES ACROSS EQUIPMENT CROSSING AS NEEDED FOR ACCESS, AND REPLACE AT THE END OF EACH DAY.
5. NUMBER OF FLUME PIPES WILL VARY DEPENDING ON SITE CONDITIONS.

## TYPICAL DAM & PUMP STREAM CROSSING

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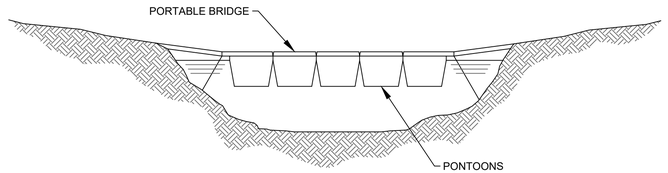
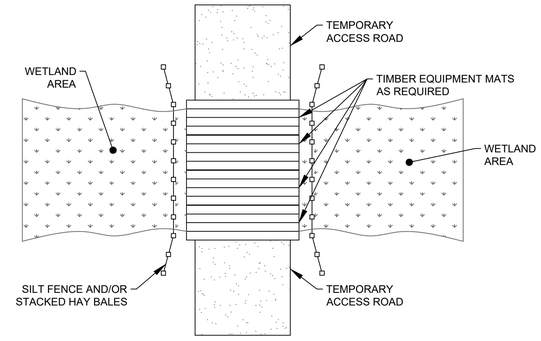


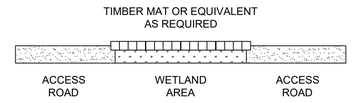

NOTES:
1. STABILIZE EDGES WITH SANDBAGS OR STONE.
2. REMOVE BRIDGE DURING CLEANUP.

## TEMPORARY EQUIPMENT BRIDGE

SCALE: N.T.S.




PLAN VIEW




SECTION VIEW

## TEMPORARY WETLAND CROSSING

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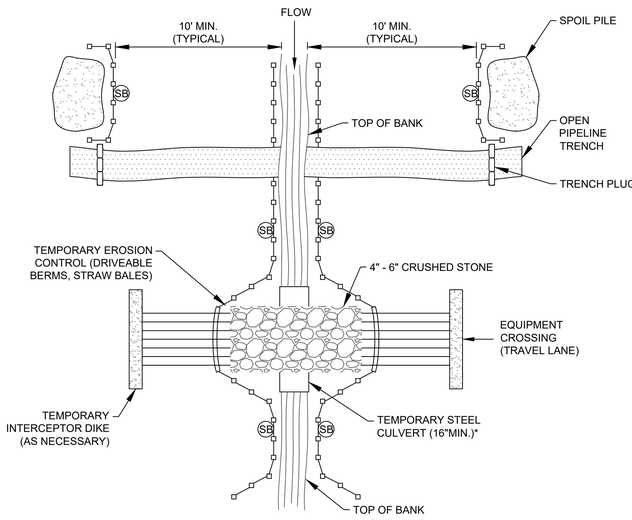


NOTES:
1. SB TEMPORARY SEDIMENT BARRIER OF SILT FENCE AND/OR STRAW BALES, OR APPROPRIATE MATERIALS.
2. FOR MINOR WATERBODIES, COMPLETE TRENCHING AND BACKFILL IN THE WATERBODY (NOT INCLUDING BLASTING OR OTHER ROCK BREAKING MEASURES) WITHIN 24 CONTINUOUS HOURS. IF A FLUME IS INSTALLED WITHIN THE WATERBODY DURING MAINLINE ACTIVITIES, IT CAN BE REMOVED JUST PRIOR TO LOWERING IN THE CABLE OR CONDUIT. THE 24-HOUR TIMEFRAME STARTS AS SOON AS THE FLUME IS REMOVED.
3. FOR INTERMEDIATE WATERBODIES, COMPLETE TRENCHING AND BACKFILLING IN THE WATERBODY (NOT INCLUDING BLASTING OR OTHER ROCK BREAKING MEASURES) WITHIN 48 CONTINUOUS HOURS, IF FEASIBLE.

* ACTUAL NUMBERS OF FLUMES AND CULVERT PIPE REQUIRED TO BE DETERMINED BY STREAM WIDTH.

## TYPICAL OPEN CUT STREAM CROSSING

SCALE: N.T.S.

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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K.INGERSOLL

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

WATER CROSSING DETAILS

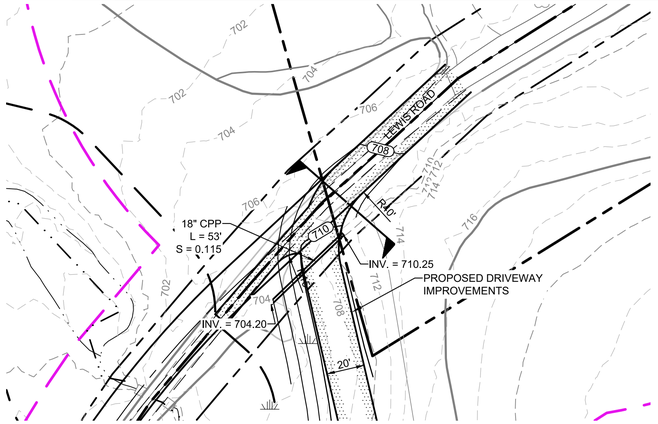
---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

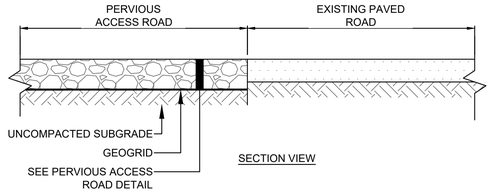
SCALE AT 22" x 34":

AS NOTED

| SHEET NO: | REV: |
|---|---|
| PV-C.07.01 | 0 |



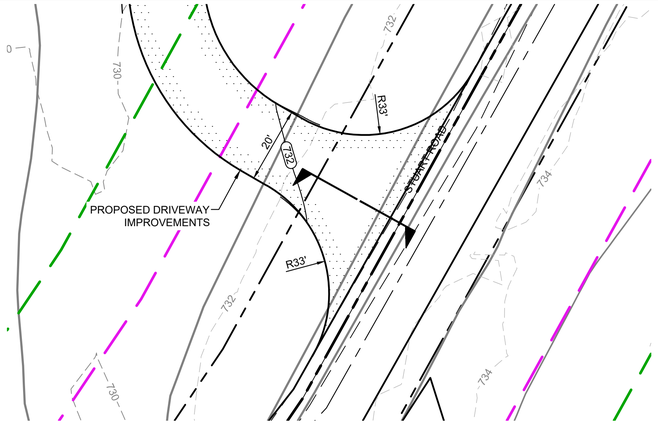

PLAN VIEW



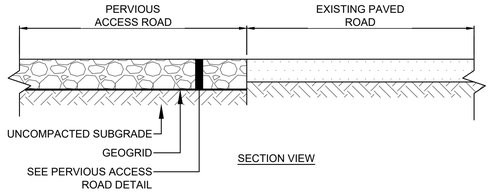

SECTION VIEW

## SITE ENTRANCE 1

SCALE: N.T.S.




PLAN VIEW




SECTION VIEW

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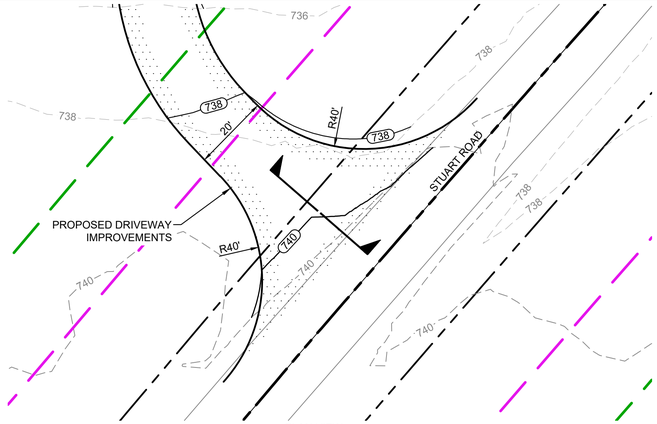
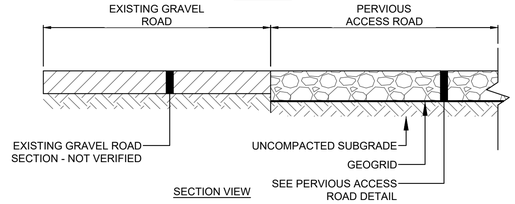



PLAN VIEW




SECTION VIEW

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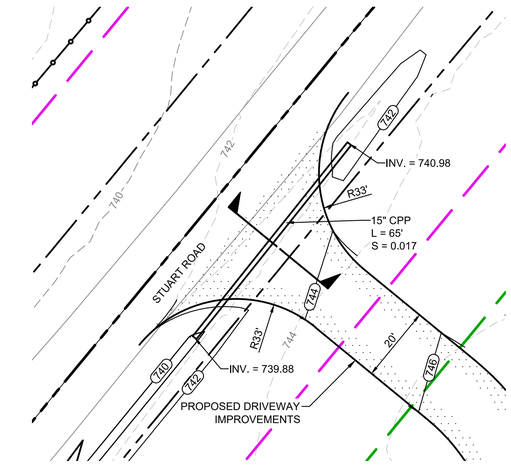
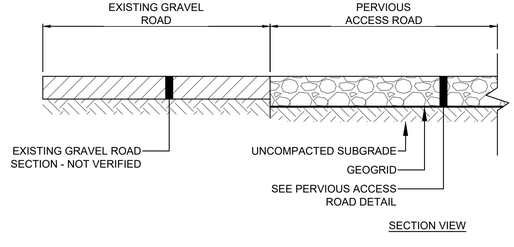



PLAN VIEW




SECTION VIEW

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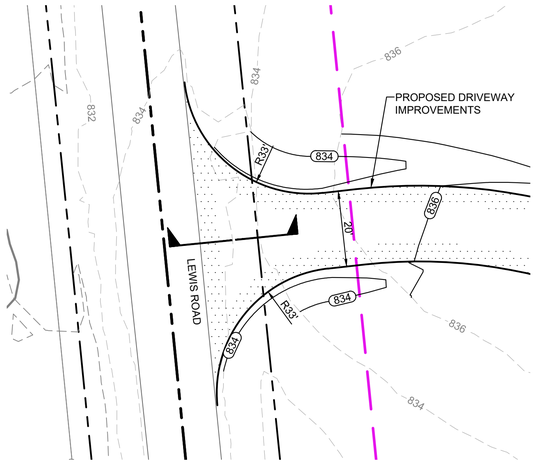
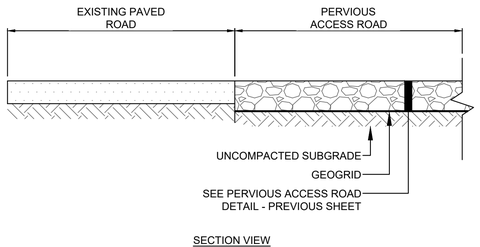



PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 5

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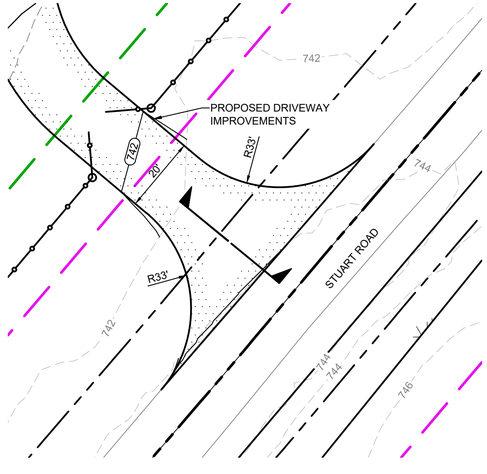
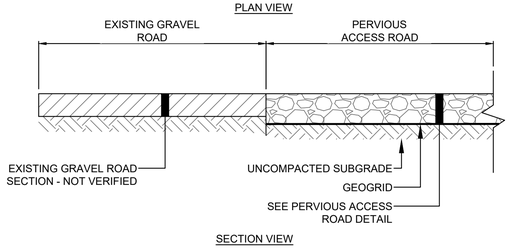



PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 12

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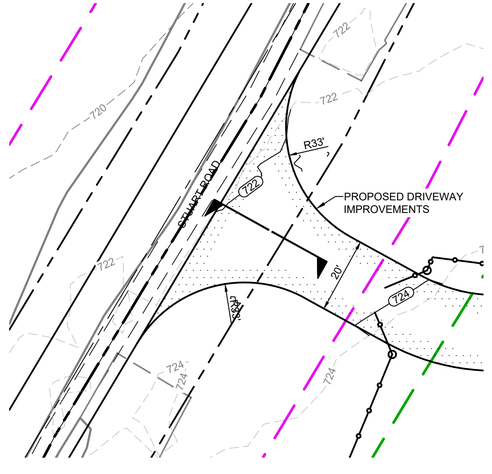
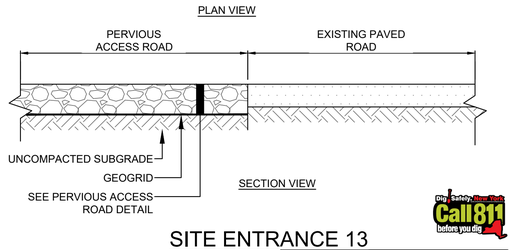



PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 13

SCALE: N.T.S.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

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|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE ENTRANCE DETAILS 1

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

AS NOTED

SHEET NO: PV-C.08.01

REV: 0

Dig Safely. Know What's Below. Call 811 before you dig

PLOTTED: 11/8/2022 4:05 PM
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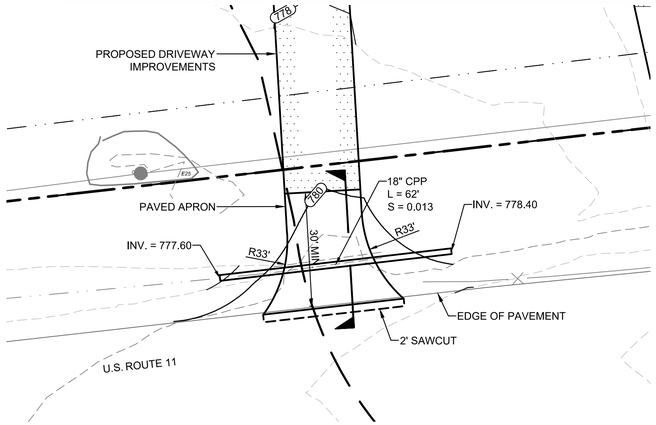
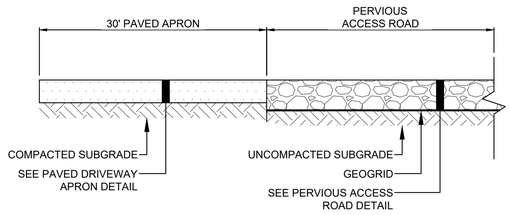
AES Tilelock 22X34 v210319




PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 6

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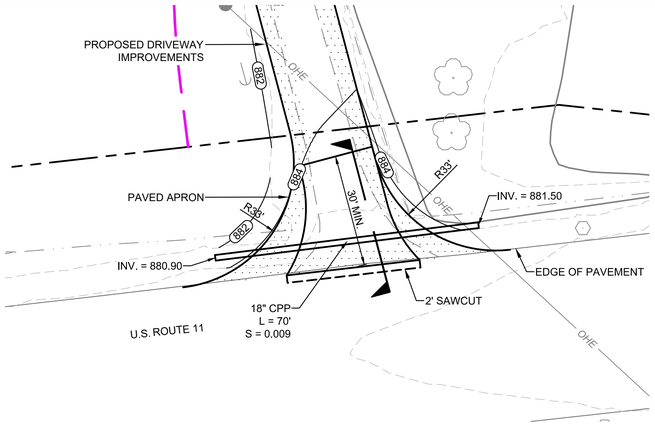
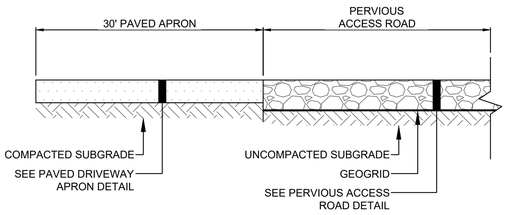



PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 7

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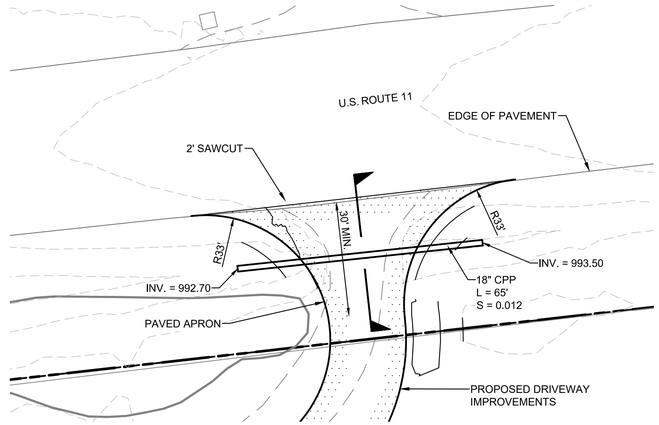
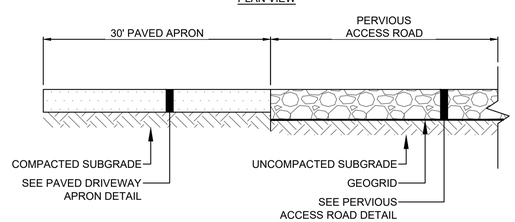



PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 8

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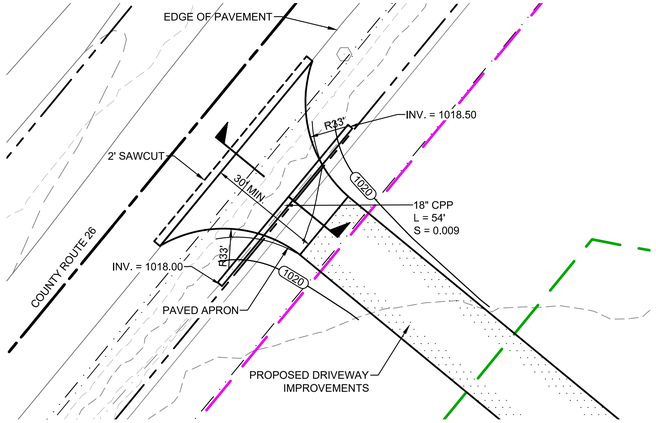
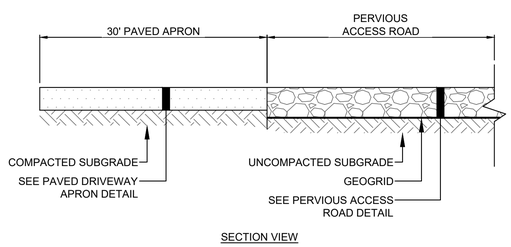


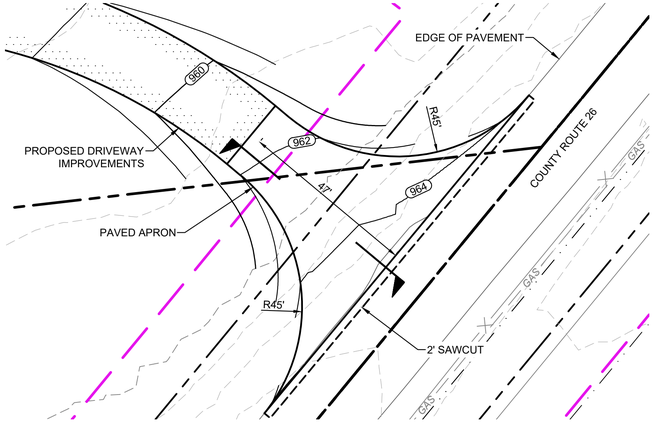

PLAN VIEW



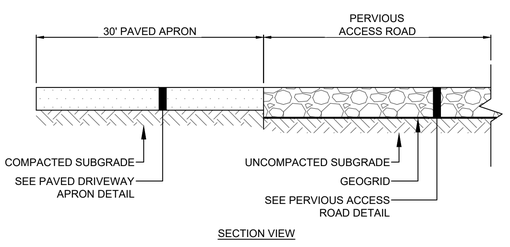

SECTION VIEW

## SITE ENTRANCE 9

SCALE: N.T.S.



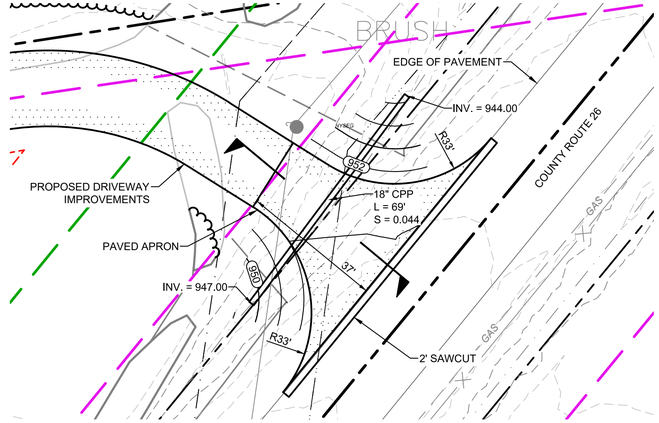

PLAN VIEW



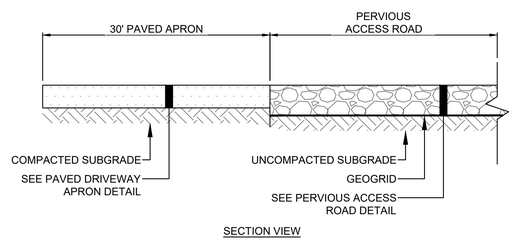

SECTION VIEW

## SITE ENTRANCE 10

SCALE: N.T.S.




PLAN VIEW




SECTION VIEW

## SITE ENTRANCE 11

SCALE: N.T.S.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SITE ENTRANCE DETAILS 2

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

AS NOTED

| SHEET NO: | REV: |
|---|---|
| PV-C.08.02 | 0 |

Call 811 before you dig

AES Tilelock 22X14 v210319
PLOTTED: 1/19/2022 5:31 PM
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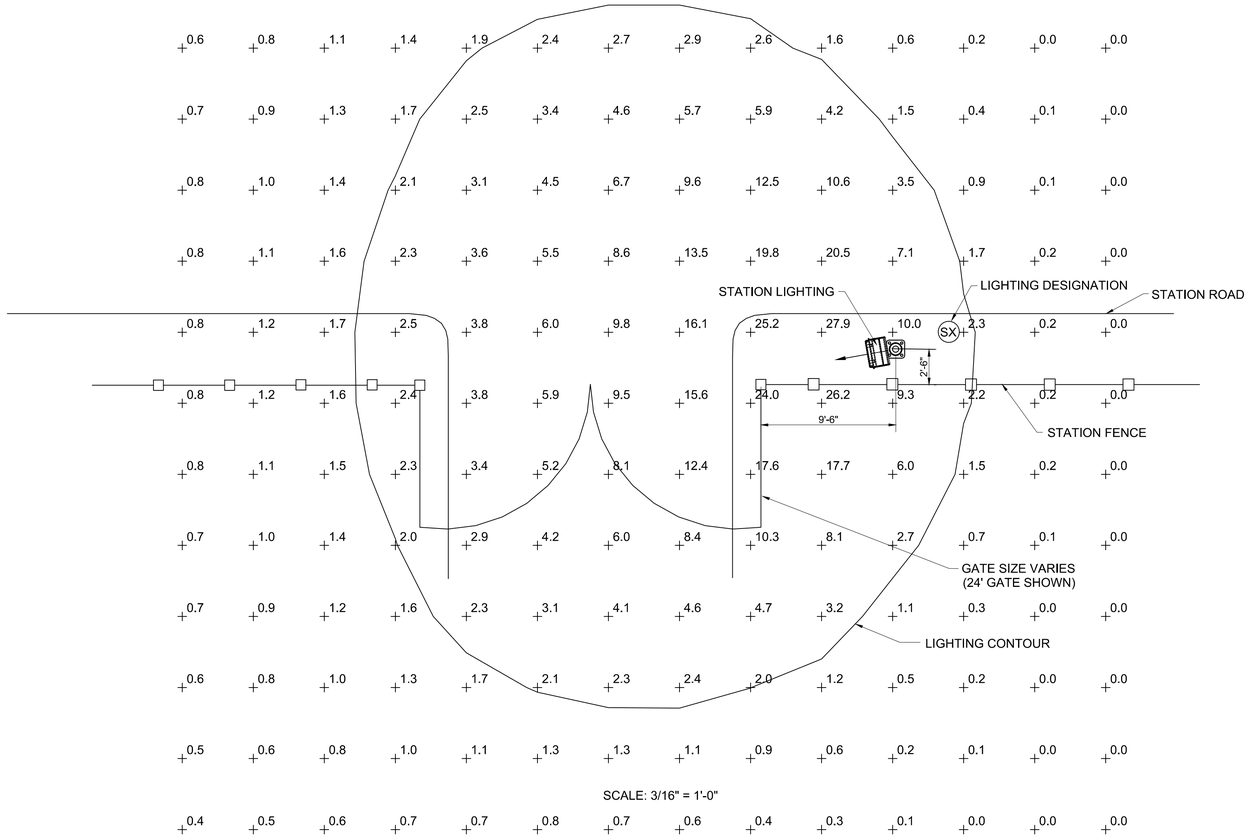
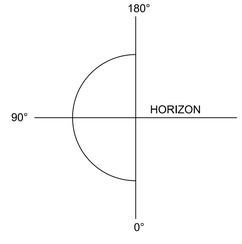
XREFs: x\d\986969\422299-BASE-CALS.SURVEY.dwg x\d\986969\422299-BASE-GRADE.dwg x\d\986969\422299-BASE-LAYOUT.dwg x\d\986969\422299-BASE-NATURAL RESOURCES.dwg x\d\986969\422299-BASE-PV LAYOUT.dwg x\d\986969\422299-BASE-GRADE-ZONE-1.dwg x\d\986969\422299-BASE-GRADE-ZONE-2.dwg x\d\986969\422299-BASE-GRADE-ZONE-3.dwg x\d\986969\422299-BASE-GRADE-ZONE-4.dwg




| TABLE 1 - LIGHTING FIXTURE SCHEDULE (NOTE 2) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FIXTURE | | | | | | | | LAMP | PHOTO-ELECTRIC CONTROL |
| TYPE | WATTAGE | LIGHT SOURCE | VOLTAGE | WEIGHT (LBS) | LUMENS | NEMA CLASS | TILT ANGLE | MANUFACTURER (GE) ITEM # | MANUFACTURER ITEM # |
| A3 | 150W | LED | 120V | 26 | 18,800 | 7X6 | 60° | GE EVOLVE EFH101AA76740 W/ TOP & SIDE VISOR TSDKBZ-EFH | N/A |

TILT KEY




NOTES:

1. ENTRANCE GATE LIGHTING IS COMPRISED OF (1) 150W,120V AC LED FLOODLIGHT.
2. LIGHT FIXTURES TO BE MOUNTED ON INDICATED STRUCTURES 15' ABOVE FINISHED GRADE. THE FIXTURES SHALL BE AIMED AS SHOWN ON THIS DRAWING AND HAVE A TILT ANGLE BASED ON THE FIXTURE SCHEDULE.
3. LIGHTING CONTOUR IS 2 FT CANDLES (F.C.) AVERAGE FOR THIS YARD.
4. FLOODLIGHTS INSTALLED WITH TOP AND SIDE VISORS ACHIEVE FULL CUTOFF REQUIREMENT (0 F.C.) ABOVE FIXTURE.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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Augusta, ME 04330

PE STAMP:

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CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR ENERGY FACILITY

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

PV ENTRANCE GATE LIGHTING

LIGHTING DETAIL

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/21 |

SCALE AT 22" x 34":
0 2' 4' 8' 12'
3/16" = 1'-0"

SHEET NO: PV-C.08.03
REV: 0

AES Tifeblock 22034 v210319
PLOTTED: 1/13/2022 3:20 PM
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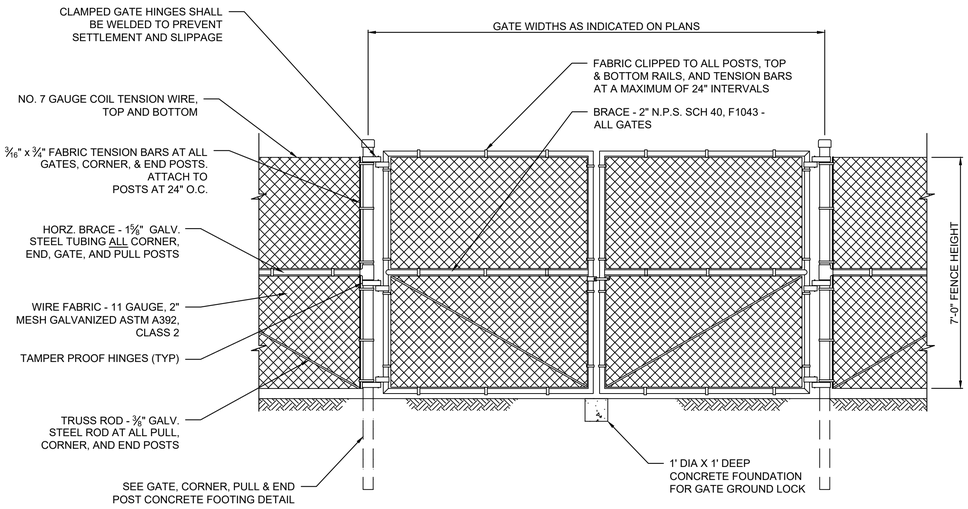
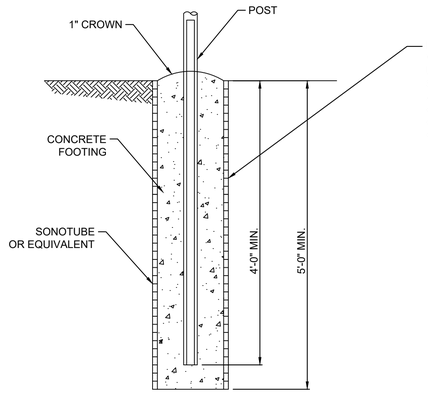
AES Tilebock 22X24 v210319




SWING GATE FRAME
NOT TO SCALE



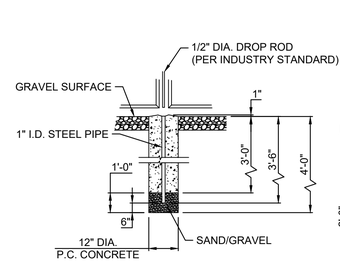

POSTS SHALL BE STEEL PIPE, ASTM F1083 STANDARD WEIGHT. POSTS SHALL BE DRIVEN 6' INTO UNDISTURBED SUBGRADE SOIL FOR LINE POSTS OR SET IN 2'-0" DIA. X 5' MIN DEEP CONCRETE FOR CORNER AND GATE POST.

- LINE POSTS - 1 1/2" SCH 40 (O.D. = 1 7/8")
- GATE POSTS - 3 1/2" SCH 40 (O.D. = 4")
- CORNER AND PULL POSTS - 2" SCH 40 (O.D. = 2 3/8")

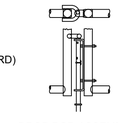
| POST USE | GATE | CORNER | PULL | END |
|---|---|---|---|---|
| NOMINAL PIPE SIZE (INCHES) | 4 | 2 3/8 | 2 3/8 | 2 3/8 |
| SONOTUBE SIZE (INCHES) | 12 | 12 | 12 | 12 |

FOOTING NOTES:
1. UNLESS OTHERWISE INDICATED, FENCE POST SIZES ARE INDUSTRY STANDARD NOMINAL SIZES IN ACCORDANCE WITH ASTM F 1083, GALVANIZED STEEL PIPE.
2. BACKFILL SONOTUBE WITH MIN. 3,000 PSI CONCRETE.
3. ALL CONCRETE SHALL BE SINGLE POUR TO FINAL GRADE.
4. WHEN INSTALLING POSTS IN CLAY:
   - POST HOLE DEPTH SHALL BE INCREASED TO 6 FEET.
   - BACKFILL 4 FEET WITH CONCRETE.
   - BACKFILL FINAL 2 FEET WITH NATIVE SOIL.
5. WHEN INSTALLING POSTS IN LEDGE, CORE AND GROUT POSTS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
6. LINE POSTS SHALL BE DRIVEN TO A DEPTH OF 6 FEET BELOW GRADE, AND NOT SET IN CONCRETE.

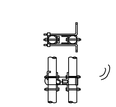
GATE, END, BRACE & CORNER POST CONCRETE FOOTING DETAIL
NOT TO SCALE



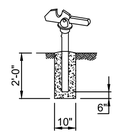

DROP ROD FOUNDATION



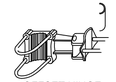
DROP ROD ASSEMBLY



LATCH ASSEMBLY




GATE KEEPER (TO HOLD GATE OPEN)



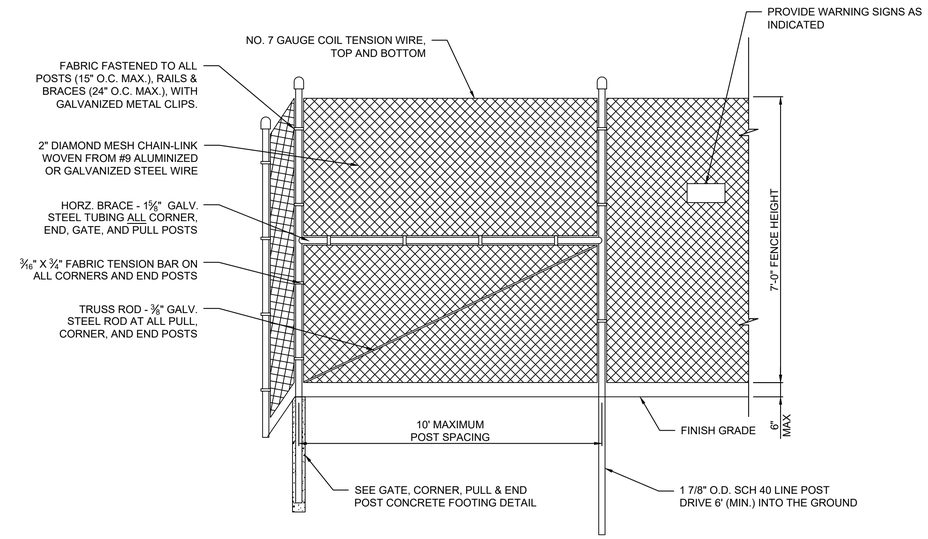
OFFSET HINGE



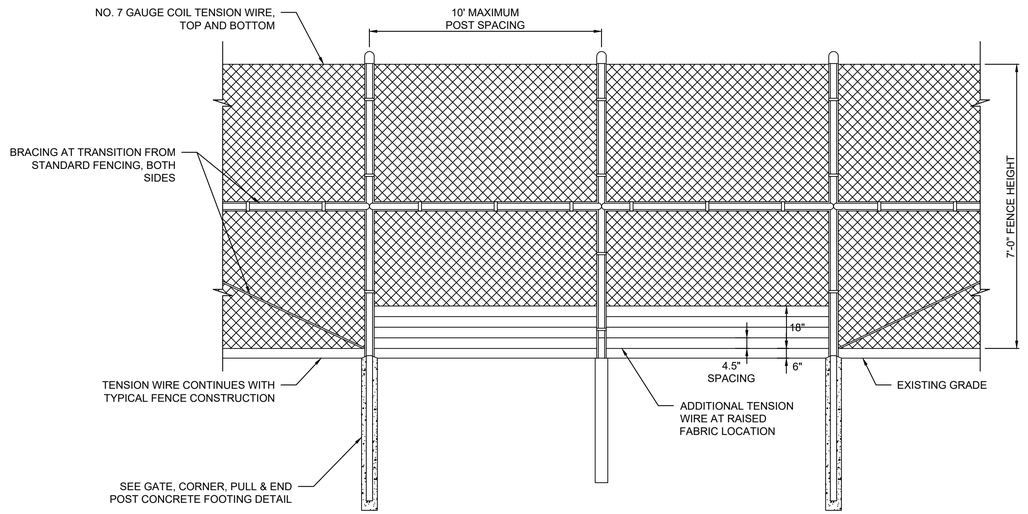
STANDARD HINGE

ACCESS GATE DETAILS
NOT TO SCALE

GENERAL FENCING NOTES:
1. ALL ITEMS SHALL BE GALVANIZED AND ZINC COATED TO ASTM SPECIFICATIONS, INCLUDING ALL POSTS, RAILS, GATES, AND HARDWARE.
2. GATE FENCE FABRIC SHALL BE MOUNTED INSIDE THE FRAME.
3. All SWING GATE OPENINGS SHALL BE 24 FEET UNLESS OTHERWISE SPECIFIED.
4. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY, AND GATE KEEPERS.
5. BOLTS AND HINGES SHALL BE OF A TAMPER-PROOF TYPE.
6. EXPOSED BOLTS AND NUTS SHALL BE SPOT WELDED.
7. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL FENCE AND GATE REQUIREMENTS




ARRAY FENCE DETAILS
NOT TO SCALE




STORMWATER FENCING DETAILS
NOT TO SCALE

FENCING NOTES:
1. FENCING CONTRACTOR TO DESIGN AND INSTALL FENCE PER LOCAL REQUIREMENTS AND/OR SUGGESTED PRACTICE FOR ALL COMPONENTS NOT SPECIFICALLY CALLED OUT.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS AND WITH DESIGN DOCUMENTS PROVIDED BY THE VARIOUS DESIGN PROFESSIONALS INVOLVED IN THIS PROJECT.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DETAILS, AND SPATIAL RELATIONSHIPS SHOWN ON THESE DRAWINGS IN CONJUNCTION WITH ALL OTHER RELATED DESIGN DRAWINGS. ANY DISCREPANCIES, CONFLICTS, OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY WORK ON THE PROJECT.
4. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS, INCLUDING SHOP DRAWINGS, AND VERIFY CORRECTNESS OF THEM PRIOR TO SUBMISSION TO OWNER.
5. MAXIMUM SPACING BETWEEN BRACES SHALL BE 500 FEET. CORNER BRACES TO BE PROVIDED WHERE CORNER ANGLE IS 15° OR MORE AND WHERE SPACING REACHES 500 FEET.
6. SEE ELECTRICAL SHEETS FOR REQUIRED SIGNAGE.
7. ALL STEEL SHALL BE GALVANIZED PER ASTM A123 UNLESS CORROSION ANALYSIS REPORT RECOMMENDS ADDITIONAL CORROSION PROTECTION.
8. FOUNDATION CONCRETE SHALL MEET NEW YORK DOT SPECIFICATIONS FOR CLASS A3 CONCRETE.
9. FACILITY LAYOUT RELATIVE TO THE PROJECT WETLANDS AND BOUNDARY SHALL BE CONFIRMED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.

STORMWATER FENCING NOTES:
1. THE STORMWATER FENCES SHOULD BE INSPECTED AFTER RUNOFF PRODUCING STORM EVENTS AND CLEARED OF DEBRIS.
2. POST REPLACEMENT SHOULD BE AVOIDED IF POSSIBLE AND MINIMIZED WITHIN THE WETLAND CROSSINGS. CONTRACTOR MUST NOT ALLOW VEHICLES TO CROSS THE WETLANDS EXCEPT WHEN ABSOLUTELY REQUIRED TO INSTALL THE STORMWATER FENCING.
3. TENSION WIRE STRANDS AT THE BOTTOM, WITH A MAXIMUM OF 6 INCHES BETWEEN STRANDS FOR 24 INCHES (STARTING FROM THE GROUND.)
4. ADDITIONAL BRACING OR LARGER POST SIZE MAY BE REQUIRED TO SPAN WETLANDS ONSITE.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

Dig Safely. Free Mark Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

PLOTTED: 11/5/2022 4:07 PM
C:\Users\chris.gorny\Desktop\422299-FENCING DETAILS.dwg
ACAD-C

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:




KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ARRAY FENCING DETAILS

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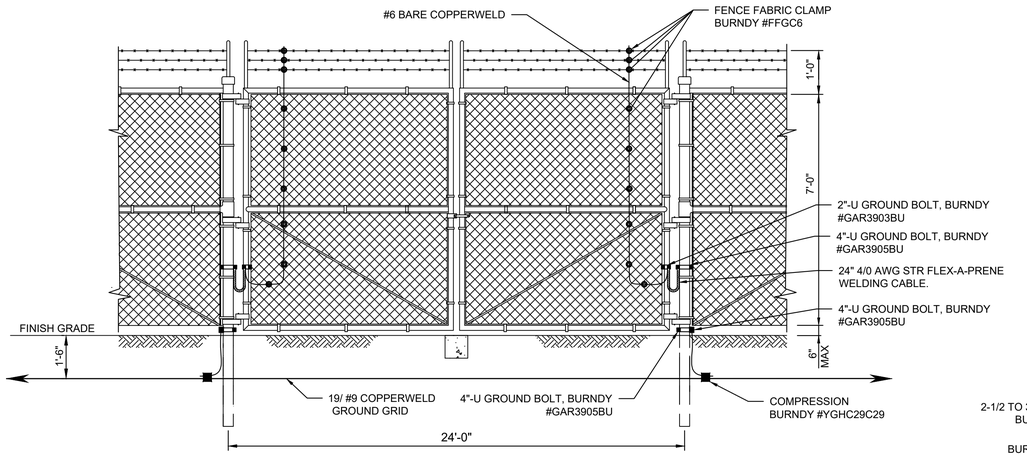
| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/25/2021 |

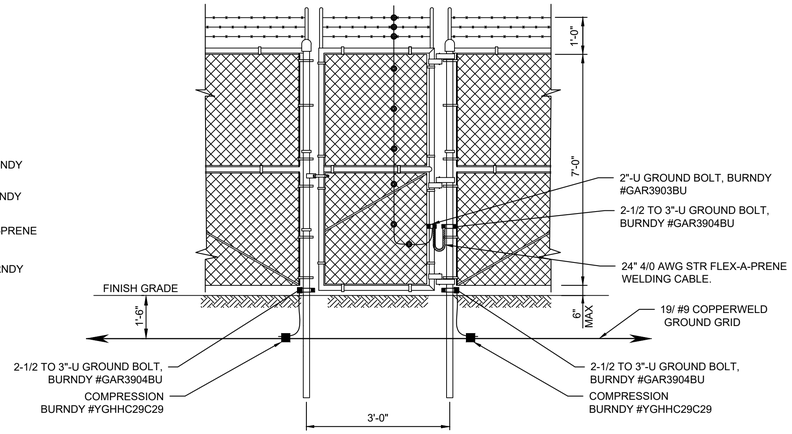
SCALE AT 22" x 34":

AS NOTED

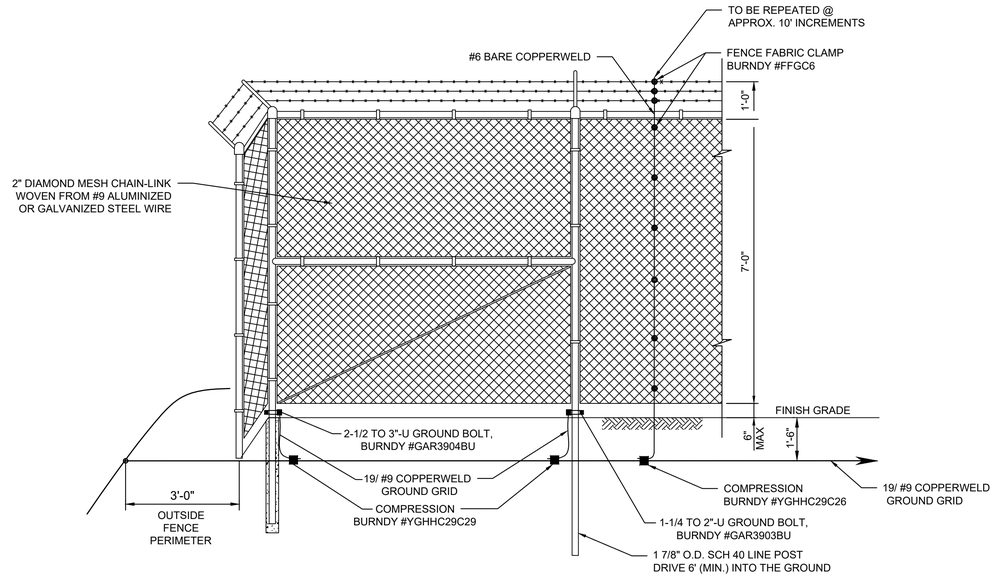
| SHEET NO: | REV: |
|---|---|
| PV-C.10.01 | 0 |




VEHICLE SWING GATE FRAME GROUNDING
NOT TO SCALE




PERSONNEL SWING GATE FRAME GROUNDING
NOT TO SCALE




SUBSTATION FENCE GROUNDING DETAILS
NOT TO SCALE

| POST USE | GATE | CORNER | PULL | END | LINE |
|---|---|---|---|---|---|
| NOMINAL PIPE SIZE (INCHES) | 4 | 2 3/8 | 2 3/8 | 2 3/8 | 1 7/8 |
| SONOTUBE SIZE (INCHES) | 12 | 12 | 12 | 12 | 12 |

FENCING NOTES:
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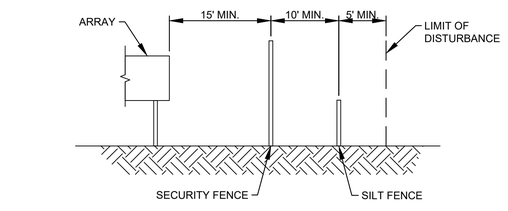
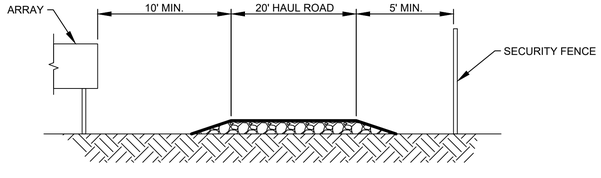



NOTE:
CONSTRUCT 12' ACCESS ROAD WHERE INDICATED ON PLANS.




NOTE:
TYPICAL SPACING TO BE USED UNLESS OTHERWISE NOTED ON DESIGN PLANS.

TYPICAL SPACING REQUIRMENTS
NOT TO SCALE

**SPEED LIMIT 15**

**NOTES:**
1. **DIMENSIONS: 30" X 24".**
2. **SIGNS SHALL BE 0.080" (MIN.) RUST-FREE ALUMINUM.**
3. **INSTALL AT LOCATIONS SHOWN ON PLANS.**

**WARNING**
**KEEP OUT**
**AUTHORIZED PERSONEL ONLY**

**PRIVATE PROPERTY**
**NO TRESPASSING**

**NOTES:**
1. **DIMENSIONS: 18" X 12".**
2. **SIGNS SHALL BE 0.040" (MIN.) RUST-FREE ALUMINUM.**
3. **ATTACH TO OUTSIDE OF PERIMETER FENCE EVERY 200' MAX.**

**aes CLEAN ENERGY**
**IN CASE OF EMERGENCY CALL: ??**

**NOTES:**
1. **DIMENSIONS: 18" X 12".**
2. **SIGNS SHALL BE 0.040" (MIN.) RUST-FREE ALUMINUM.**
3. **ATTACH TO ACCESS GATES.**

**DANGER**
**HIGH VOLTAGE**
**AUTHORIZED PERSONEL ONLY**

**NOTES:**
1. **DIMENSIONS: 18" X 12".**
2. **SIGNS SHALL BE 0.040" (MIN.) RUST-FREE ALUMINUM.**
3. **ATTACH TO SUBSTATION ACCESS GATE AND SECURITY FENCE.**

SITE SIGNAGE
NOT TO SCALE

Dig Safely. New York Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
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| - | - | - |
| - | - | - |

PROJECT TITLE:
BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:
TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
SUBSTATION FENCING DETAILS

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| | |
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| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/25/2021 |

SCALE AT 22" x 34":
AS NOTED

SHEET NO: PV-C.10.02
REV: 0

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USER:

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**ARRAY** TECHNOLOGIES — FOLLOW THE SUN. FOLLOW THE LEADER.




**7%** LOWER LCOE

**31%** LOWER LIFETIME O&M

## DuraTrack® HZ v3

Three decades of field-tested design improvements have resulted in the DuraTrack® HZ v3 — the most durable, reliable tracking system under the sun. While our single-bolt module clamp and forgiving tolerances streamline installation, and our flexibly linked architecture maximizes power density, it's our innovative use of fewer components and a failure-free wind management system that makes Array Technologies the best choice for solar trackers. **Better. Stronger. Smarter.**

**HIGHEST POWER DENSITY.** Higher density means more power and more profit. DuraTrack HZ v3 offers the unique ability to maximize the power density of each site, boasting 100 modules per row and higher density than our closest competition.

**LEADING TERRAIN ADAPTABILITY.** Our flexibly linked architecture, with articulating driveline joints and forgiving tolerances, creates the most adaptable system on the market for following natural land contours while creating the greatest power generation potential from every site.

**FEWER COMPONENTS. GREATER RELIABILITY.** Array was founded on a philosophy of engineered simplicity. Minimizing potential failure points (167 times fewer components than competitors), DuraTrack HZ v3 consistently delivers higher reliability and superior uptime.

**FAILURE-FREE WIND DESIGN.** DuraTrack HZ v3 was designed and field tested to withstand some of the harshest conditions on the planet. It is the only tracker on the market that reliably handles wind events with a fully integrated, fully mechanical, passive wind-load mitigation system without the need for complex communication systems, batteries, or power.

**ZERO SCHEDULED MAINTENANCE.** Maintenance-free motors and gears, fewer moving parts, and industrial-grade components—what does this mean for our customers? No scheduled maintenance required. While our competitors average two unscheduled maintenance events per day, we average only one per year.

**ARRAY** TECHNOLOGIES — FOLLOW THE SUN. FOLLOW THE LEADER.

**COST VERSUS VALUE**
We believe value is more than the cost of a tracking system. It's about building with forgiving tolerances and fewer parts so construction crews can work efficiently. It means protecting your investment with a failure-free wind management system. It also includes increasing power density. But most of all, value is measured in operational uptime, or reliability.

**THE GLOBAL LEADER IN RELIABILITY**
Array has spent decades designing and perfecting the most reliable tracker on the planet. Fewer moving parts, stronger components and intelligent design that protects your investment in the harshest weather are but a few of the innovative differences that keep your system running flawlessly all day and you resting easy at night.

**ARRAY TECHNOLOGIES, INC.**
3901 Midway Place NE
Albuquerque, NM 87109 USA
+1 505.881.7567
+1 855.TRACKPV (872.2578)
+1.505.881.7572
sales@arraytechinc.com
**arraytechinc.com**

**30 GW** YEARS OF OPERATION — **167×** FEWER COMPONENTS THAN COMPETITIVE TRACKERS

| STRUCTURAL & MECHANICAL FEATURES/SPECIFICATIONS | |
|---|---|
| Tracking Type | Horizontal single axis |
| Less than 1 drive motor /MW | Up to 1.152 MW DC |
| String Voltage | Up to 1,500V DC |
| Maximum Linked Rows | 32 |
| Maximum Row Size | 100 modules crystalline, and bifacial: 240 modules First Solar 4: 78 modules First Solar 6 |
| Drive Type | Rotating gear drive |
| Motor Type | 2 HP, 3 PH, 480V AC |
| East-West/North-South Dimensions | Site / module specific |
| Array Height | 54" standard, adjustable (48" min height above grade) |
| Ground Coverage Ratio (GCR) | Flexible, 28–45% typical, others supported on request |
| Terrain Flexibility | N-S tolerance: 0-15% standard, 26% optional; Driveline: 40° in all directions |
| Modules Supported | Most commercially available, including frameless crystalline, thin film, and bifacial |
| Tracking Range of Motion | ± 52° standard, ± 62° optional |
| Operating Temperature Range | -30°F to 140°F (-34°C to 60°C) |
| Module Configuration available. | Single-in-portrait standard, including bifacial. Four-in-landscape (thin film) |
| Module Attachment | Single fastener, high-speed mounting clamps with integrated grounding. Traditional rails for crystalline in landscape, custom racking for thin film and frameless crystalline and bifacial per manufacturer specs. |
| Materials | Pre-galv steel, HDG steel and aluminum structural members, as required |
| Allowable Wind Load (ASCE 7-10) | 140 mph, 3-second gust exposure C |
| Wind Protection | Failure free passive mechanical system protects against wind damage without the use of complex communications systems, batteries — no power required |

| ELECTRONIC CONTROLLER FEATURES/SPECIFICATIONS | |
|---|---|
| Solar Tracking Method | Algorithm with GPS input |
| Control Electronics | MCU plus Central Controller |
| Data Feed | MODBUS over Ethernet to SCADA system |
| Night-time Stow | Yes |
| Tracking Accuracy | ± 2° standard, field adjustable |
| Backtracking | Yes |

| INSTALLATION, OPERATION & MAINTENANCE | |
|---|---|
| Software | SmarTrack optimization available |
| PE Stamped Structural Calculations & Drawings | Yes |
| On-site Training and System Commissioning | Yes |
| Connection Type | Fully bolted connections, no welding |
| In-field Fabrication Required | No |
| Dry Slide Bearings and Articulating Driveline Connections | No lubrication required |
| Scheduled Maintenance | None required |
| Module Cleaning Compatibility | Robotic, Tractor, Manual |

| GENERAL | |
|---|---|
| Annual Power Consumption (kWh per 1 MW) | 400 kWh per MW per year, estimate |

Array Technologies, Inc. reserves the right to make changes without notice.

REV 2.1 - 12SEPTEMBER2019

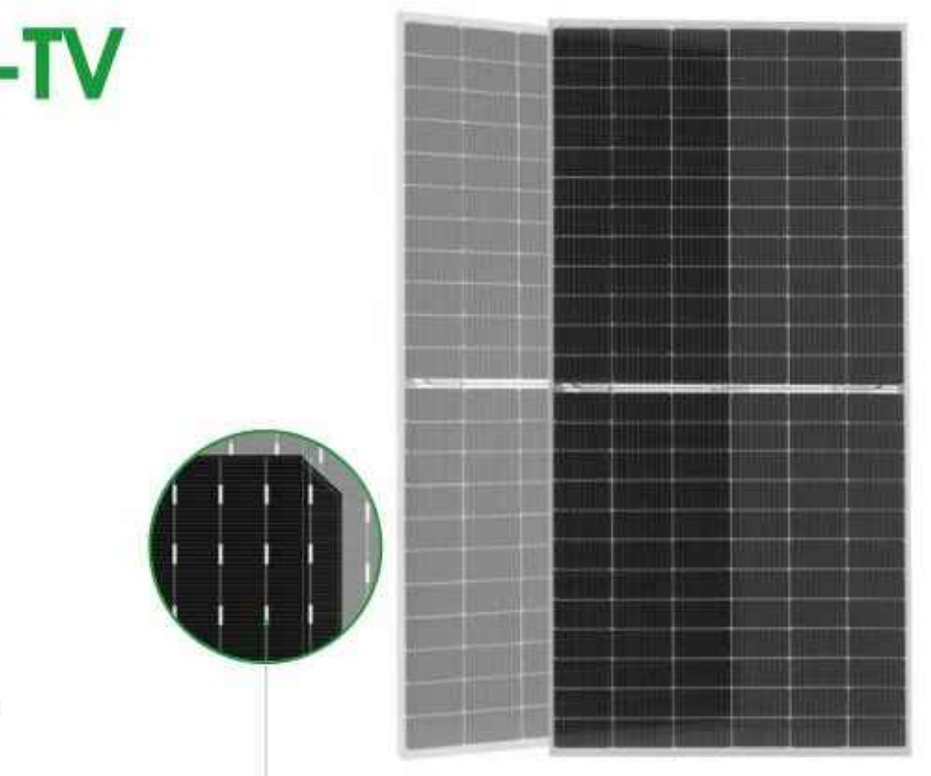
www.jinkosolar.com

**JinKO Solar** — Building Your Trust in Solar

# Tiger Pro 72HC-TV
## *525-545 Watt*
BIFACIAL MODULE WITH TRANSPARENT BACKSHEET
**P-Type**

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018
Occupational health and safety management systems




### Key Features

**Multi Busbar Technology** — Better light trapping and current collection to improve module power output and reliability.

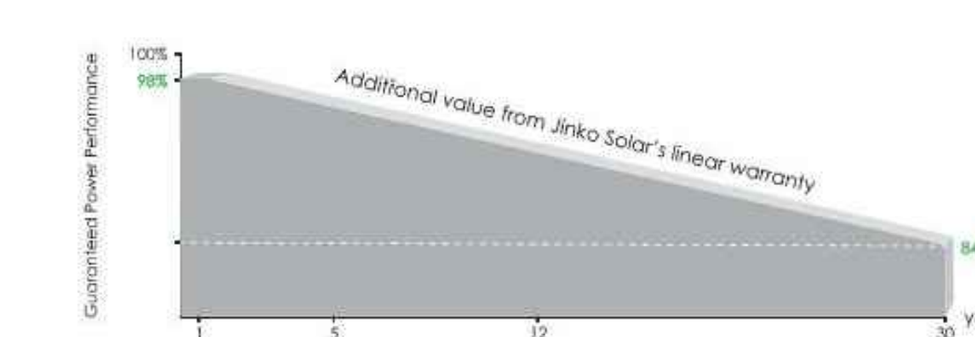
**Longer Life-time Power Yield** — 0.45% annual power degradation and 30 year linear power warranty.

**Light-weight design** — Light-weight design using transparent backsheet for easy installation and low BOS cost.

**Enhanced Mechanical Load** — Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

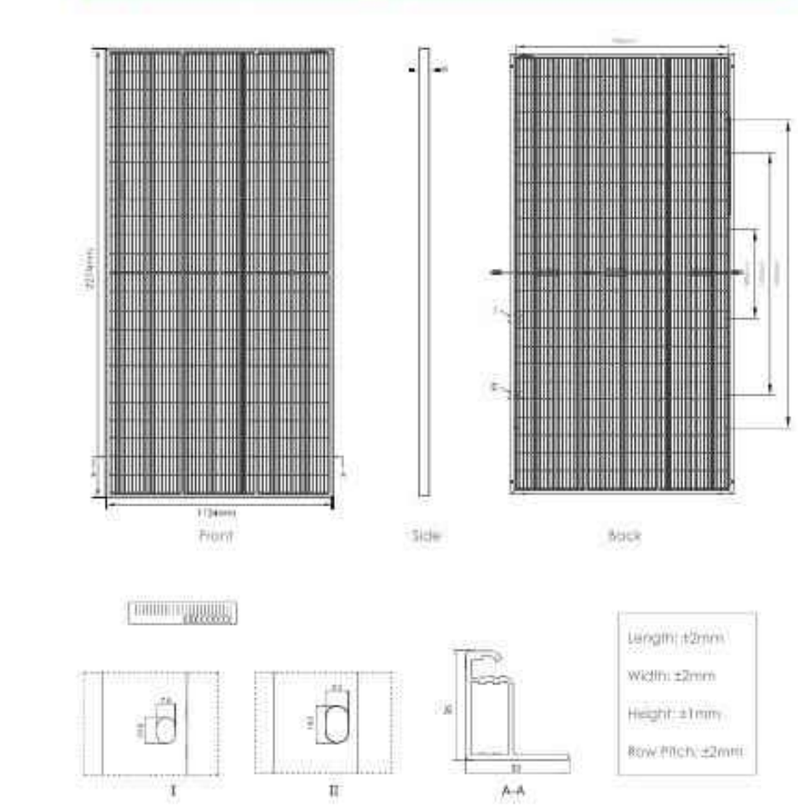
**Higher Power Output** — Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

### LINEAR PERFORMANCE WARRANTY

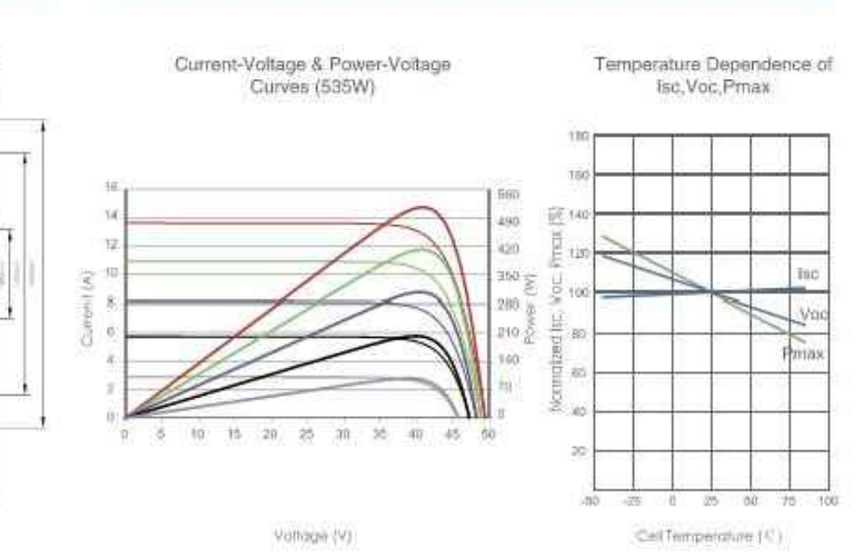



**12** Year Product Warranty
**30** Year Linear Power Warranty
**0.45%** Annual Degradation Over 30 years

**Engineering Drawings**




**Electrical Performance & Temperature Dependence**




**Packaging Configuration**
( Two pallets = One stack )
31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

| Mechanical Characteristics | |
|---|---|
| Cell Type | P type Mono-crystalline |
| No. of cells | 144 (6×24) |
| Dimensions | 2274×1134×35mm (89.53×44.65×1.38 inch) |
| Weight | 28.9 kg (63.7 lbs) |
| Front Glass | 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 Rated |
| Output Cables | TUV 1×4.0mm² (+): 400mm, (-): 200mm or Customized Length |

**SPECIFICATIONS**

| Module Type | JKM525M-72HL4-TV STC | JKM525M-72HL4-TV NOCT | JKM530M-72HL4-TV STC | JKM530M-72HL4-TV NOCT | JKM535M-72HL4-TV STC | JKM535M-72HL4-TV NOCT | JKM540M-72HL4-TV STC | JKM540M-72HL4-TV NOCT | JKM545M-72HL4-TV STC | JKM545M-72HL4-TV NOCT |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Power (Pmax) | 525Wp | 391Wp | 530Wp | 394Wp | 535Wp | 398Wp | 540Wp | 402Wp | 545Wp | 405Wp |
| Maximum Power Voltage (Vmp) | 40.61V | 37.74V | 40.71V | 37.88V | 40.81V | 37.98V | 40.91V | 38.08V | 41.07V | 38.18V |
| Maximum Power Current (Imp) | 12.93A | 10.35A | 13.02A | 10.41A | 13.11A | 10.48A | 13.20A | 10.55A | 13.27A | 10.62A |
| Open-circuit Voltage (Voc) | 49.27V | 46.50V | 49.35V | 46.58V | 49.42V | 46.65V | 49.49V | 46.71V | 49.65V | 46.86V |
| Short-circuit Current (Isc) | 13.64A | 11.02A | 13.71A | 11.07A | 13.79A | 11.14A | 13.87A | 11.20A | 13.94A | 11.26A |
| Module Efficiency STC (%) | 20.36% | | 20.55% | | 20.75% | | 20.94% | | 21.13% | |
| Operating Temperature(℃) | -40℃~+85℃ | | | | | | | | | |
| Maximum system voltage | 1500VDC (IEC) | | | | | | | | | |
| Maximum series fuse rating | 30A | | | | | | | | | |
| Power tolerance | 0~+3% | | | | | | | | | |
| Temperature coefficients of Pmax | -0.35%/℃ | | | | | | | | | |
| Temperature coefficients of Voc | -0.28%/℃ | | | | | | | | | |
| Temperature coefficients of Isc | 0.048%/℃ | | | | | | | | | |
| Nominal operating cell temperature (NOCT) | 45±2℃ | | | | | | | | | |
| Refer. Bifacial Factor | 70±5% | | | | | | | | | |

**BIFACIAL OUTPUT-REARSIDE POWER GAIN**

| | | JKM525M | JKM530M | JKM535M | JKM540M | JKM545M |
|---|---|---|---|---|---|---|
| 5% | Maximum Power (Pmax) | 551Wp | 557Wp | 562Wp | 567Wp | 572Wp |
| | Module Efficiency STC (%) | 21.38% | 21.58% | 21.78% | 21.99% | 22.19% |
| 15% | Maximum Power (Pmax) | 604Wp | 610Wp | 615Wp | 621Wp | 623Wp |
| | Module Efficiency STC (%) | 23.41% | 23.64% | 23.86% | 24.08% | 24.30% |
| 25% | Maximum Power (Pmax) | 656Wp | 663Wp | 669Wp | 675Wp | 681Wp |
| | Module Efficiency STC (%) | 25.45% | 25.69% | 25.93% | 26.18% | 26.42% |

*STC: Irradiance 1000W/m² — Cell Temperature 25°C — AM=1.5
NOCT: Irradiance 800W/m² — Ambient Temperature 20°C — AM=1.5 — Wind Speed 1m/s

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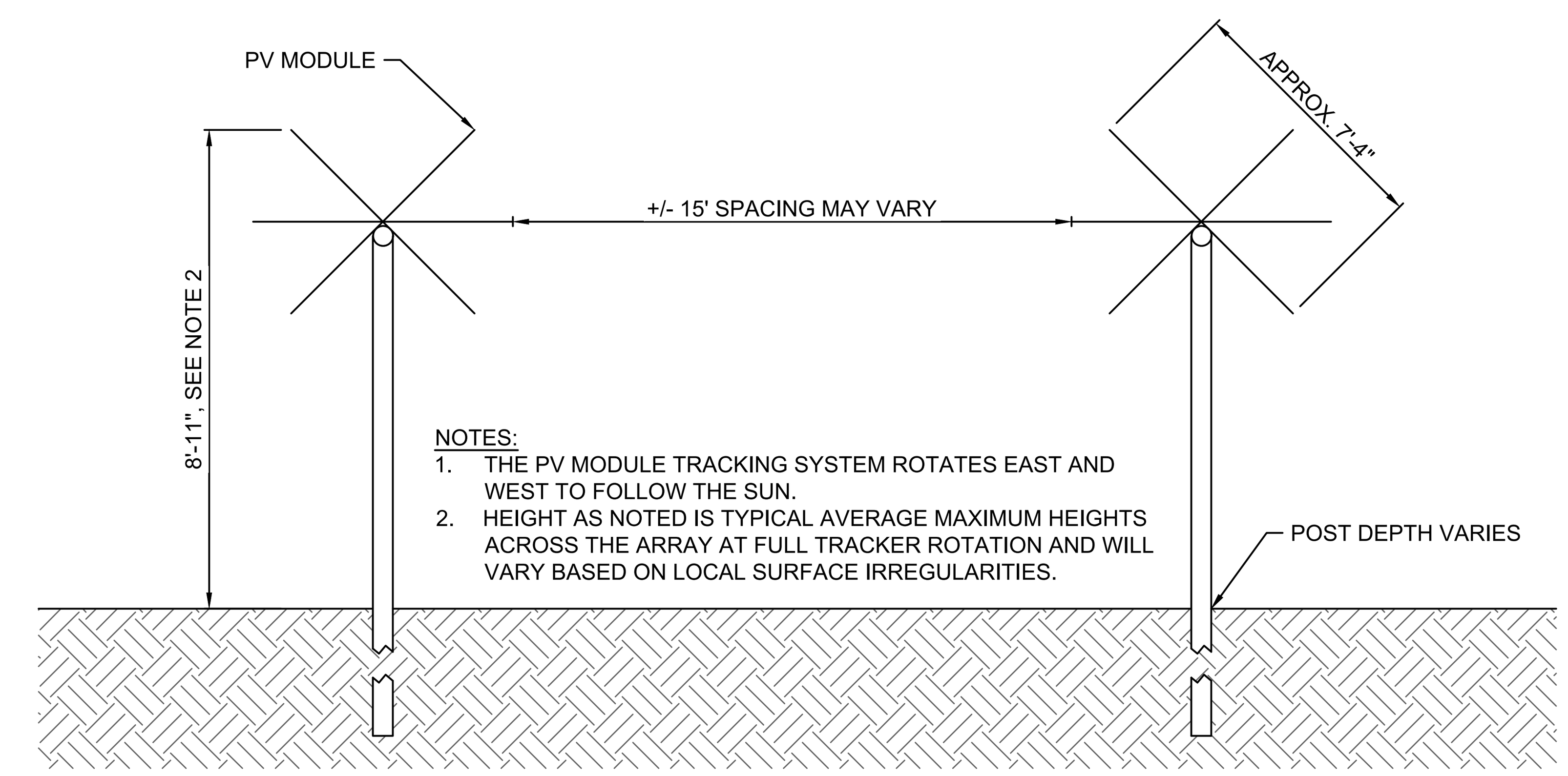
Specifications included in this datasheet are subject to change without notice.
JKM525-545M-72HL4-TV-F1-EN

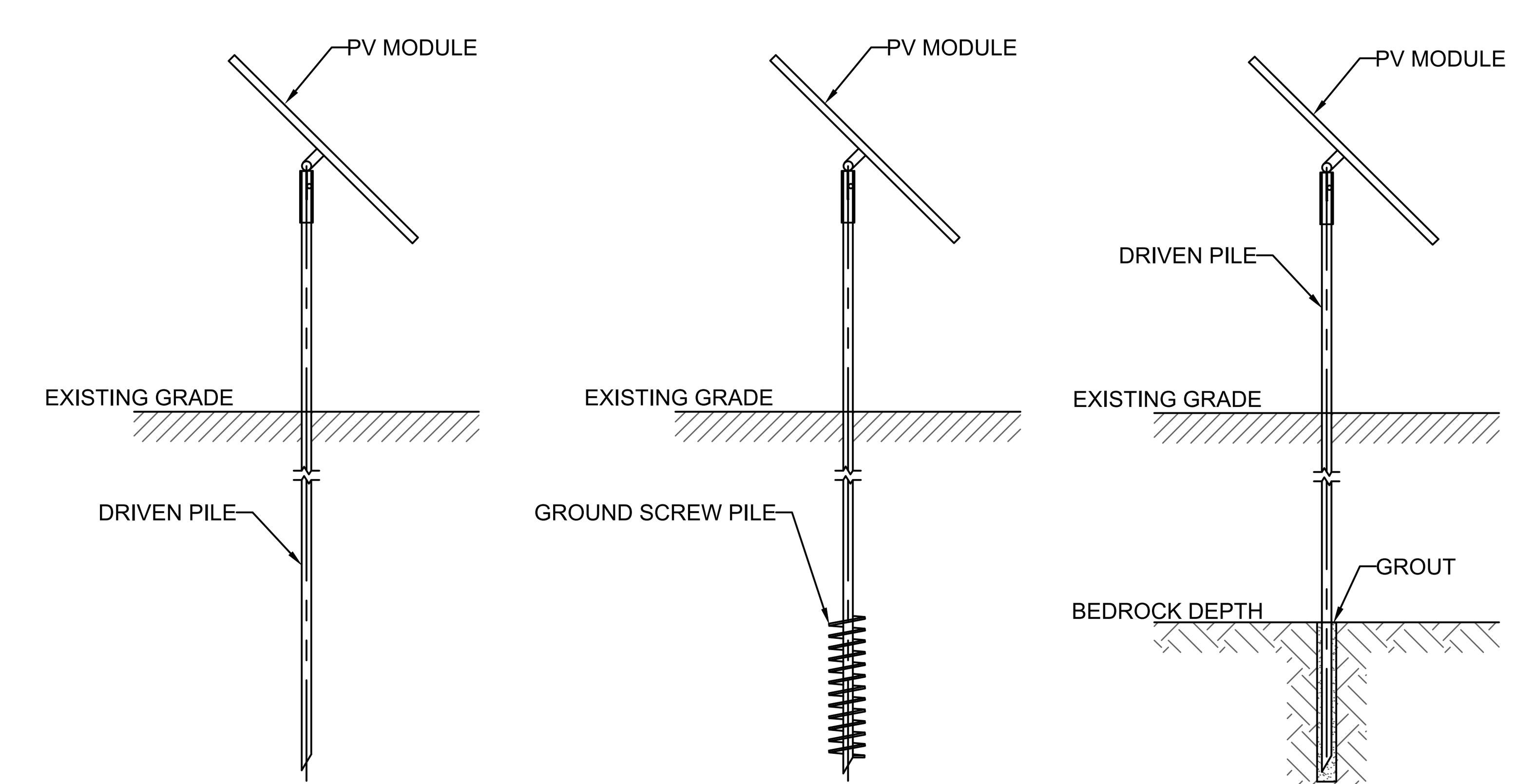





NOTES:
1. THE PV MODULE TRACKING SYSTEM ROTATES EAST AND WEST TO FOLLOW THE SUN.
2. HEIGHT AS NOTED IS TYPICAL AVERAGE MAXIMUM HEIGHTS ACROSS THE ARRAY AT FULL TRACKER ROTATION AND WILL VARY BASED ON LOCAL SURFACE IRREGULARITIES.

## TRACKER RACK SECTION DETAIL
SCALE: N.T.S.




## TYPICAL RACK FOUNDATION DETAILS
SCALE: N.T.S.

Dig Safely. New York — Call 811 before you dig

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(801) 679 - 3500

TRC
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Augusta, ME 04330

PE STAMP:
STATE OF NEW YORK — DANIEL T BUTLER — LICENSED PROFESSIONAL ENGINEER — 079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
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PROJECT TITLE:
BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:
TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
ARRAY & RACKING DETAILS

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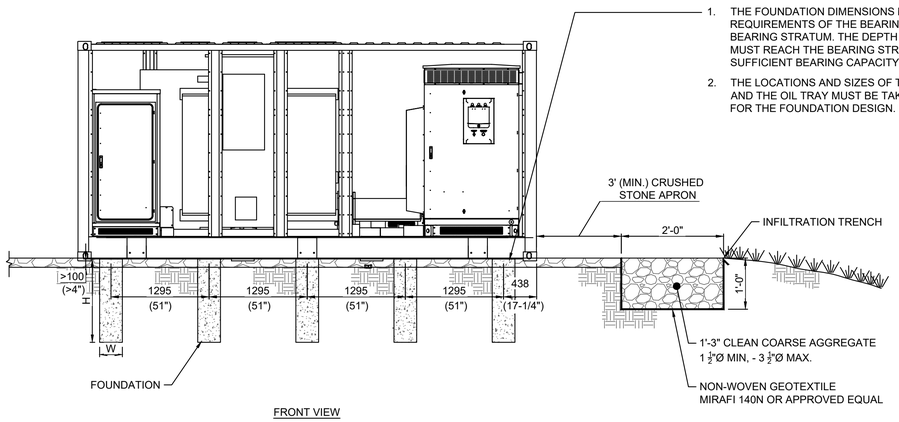
| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

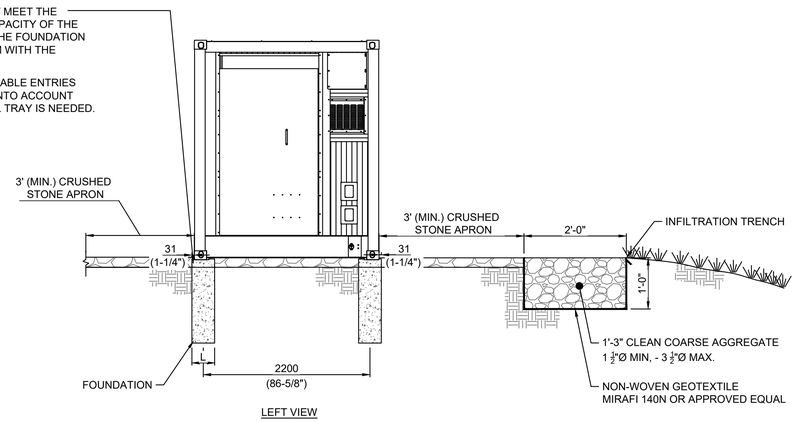
SCALE AT 22" x 34": AS NOTED

SHEET NO: PV-C.11.01 — REV: 0

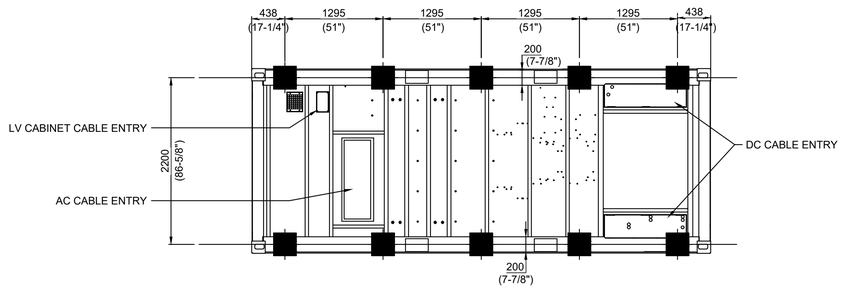



FRONT VIEW

1. THE FOUNDATION DIMENSIONS MUST MEET THE REQUIREMENTS OF THE BEARING CAPACITY OF THE BEARING STRATUM. THE DEPTH OF THE FOUNDATION MUST REACH THE BEARING STRATUM WITH THE SUFFICIENT BEARING CAPACITY.
2. THE LOCATIONS AND SIZES OF THE CABLE ENTRIES AND THE OIL TRAY MUST BE TAKEN INTO ACCOUNT FOR THE FOUNDATION DESIGN. IF OIL TRAY IS NEEDED.




LEFT VIEW




BOTTOM VIEW

NOTES:
1. THE TOTAL WEIGHT OF THE TURNKEY STATION IS ABOUT 36 KIPS.
2. THE TURNKEY STATION IS INSTALLED ON THE 10 FOUNDATIONS, THE FOUNDATION SIZE MUST MEET THE REQUIREMENTS OF THE BEARING CAPACITY OF THE BEARING STRATUM. THE DEPTH OF THE FOUNDATION MUST REACH THE BEARING STRATUM WITH THE SUFFICIENT BEARING CAPACITY, THE BEARING CAPACITY SHALL BE DETERMINED WITH REFERENCE TO THE GEOLOGICAL SURVEY REPORT.THE GROUND SURFACE MUST BE SOLID AND FLAT, WITH NO RISK OF COLLAPSE OR SLIDING.
3. THE TURNKEY STATION IS RECOMMENDED TO BE PLACED AT LEAST 4 INCHES ABOVE THE GROUND BUT WHEN THE INVERTER BOTTOM IS 8 INCHES HIGHER THAN THE GROUND , IT IS RECOMMENDED TO CONSTRUCT AN AUXILIARY O&M PLATFORM ON THE TOP OF THE PILE , FOR THE SPECIFIC DESIGN, REFER TO THE DRAWING OF THE DESIGN INSTITUTE.
4. THE UPPER SURFACES OF THE STRIP FOUNDATIONS SHOULD BE AT THE SAME LEVEL ( ERROR SHOULD BE WITHIN 0.25 INCHES).
5. NOT FOR CONSTRUCTION. THESE DRAWINGS ARE FOR INFORMATION PURPOSE, SHOWING THE FACTORS TO BE CONSIDERED WHEN DESIGNING THE FOUNDATIONS; THE FINAL ENGINEERING DRAWINGS MUST BE PREPARED BY PROFESSIONAL PERSONNEL.
6. FINISH FLOOR ELEVATION OF INVERTER SKIDS SHALL BE SET NO LESS THAN 1 FOOT ABOVE THE 100-YEAR BASE FLOOD ELEVATION WHEN LOCATED IN A FLOOD HAZARD ZONE.

EQUIPMENT PAD DETAILS PREPARED AND PROVIDED BY SUNGROW.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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(801) 679 - 3500

249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EQUIPMENT PAD DETAILS

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

AS NOTED

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REV: 0

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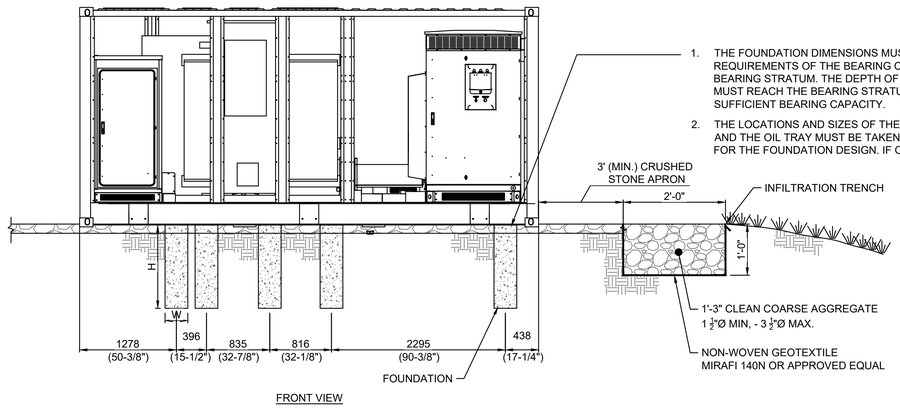


FRONT VIEW

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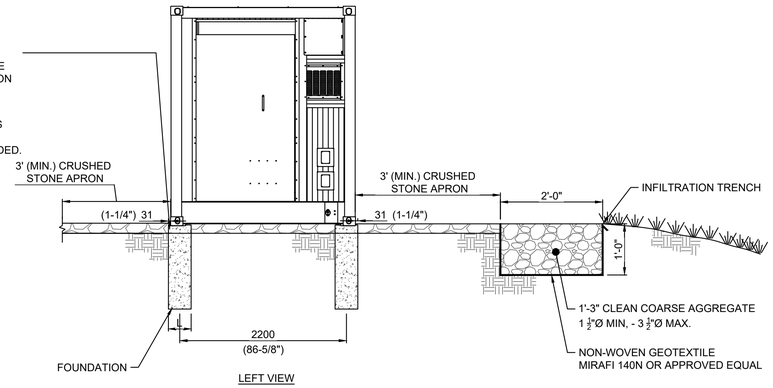
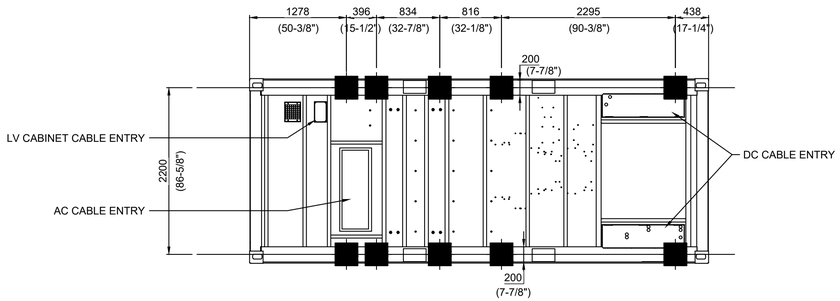



LEFT VIEW

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| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

EQUIPMENT PAD DETAILS

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| DES: | C. WINTERMUTE |
| DWN: | C. WINTERMUTE |
| CHK: | J. HEIDIG |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

AS NOTED

SHEET NO: PV-C.11.03

REV: 0

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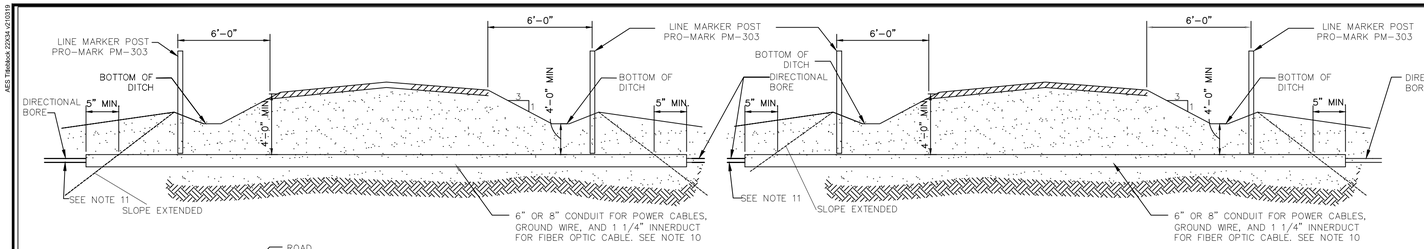
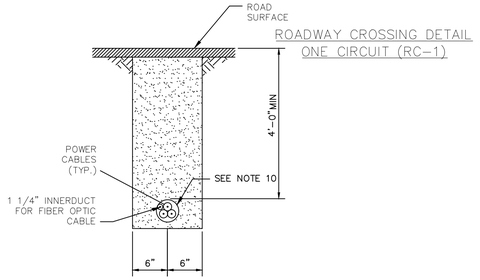
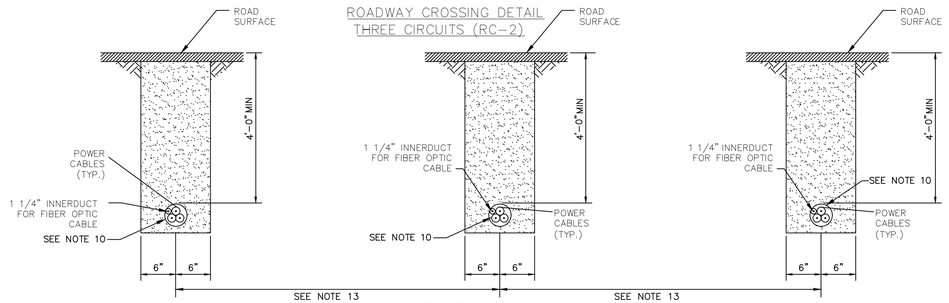



ROADWAY CROSSING DETAIL
ONE CIRCUIT (RC-1)

## SECTION C-C
SCALE: N.T.S.




ROADWAY CROSSING DETAIL
THREE CIRCUITS (RC-2)

## SECTION D-D
SCALE: N.T.S.

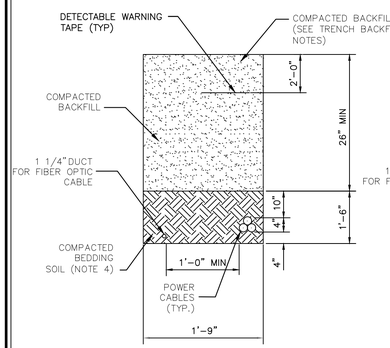
TRENCH BACKFILL NOTES

1. BACKFILLING OPERATIONS SHALL NOT BE CONDUCTED UNDER FREEZING TEMPERATURE OR FROZEN SOIL CONDITIONS.
2. THE BEDDING AND PADDING BACKFILL MATERIAL FOR THE TRENCH SHALL BE EXCAVATED SOIL FREE OF ROCKS (NO ROCKS LARGER THAN 3/8" DIAMETER) AND FREE OF WOOD, ROOTS, VEGETABLE MATTER, TOPSOIL OR OTHER DELETERIOUS MATERIAL.
3. TOPSOIL CONSISTS OF ORGANIC SILT AND SILTY SAND IN ACCORDANCE WITH THE UNITES SOIL CLASSIFICATION SYSTEMS (USCS).
4. SUITABLE PROTECTIVE BEDDING AND PADDING SOIL WITH A MINIMUM COVER ON ALL SIDES OF ALL CABLE AND / OR CONDUIT SYSTEMS SHALL BE PROVIDED. CONTRACTOR TO INSTALL GPS BALL MARKER AT EACH BORING PIT, NO DEEPER THAN 5'-0"
5. ALL THE LAYERS SHALL BE SUFFICIENTLY COMPACTED TO ACHIEVE THE NECESSARY THERMAL RESISTIVITY. COMPACTING BY FLOODING SHALL NOT BE PERMITTED.
6. BACKFILL SHALL BE PLACED IN THREE LIFTS (1 FOOT BOTTOM LIFT, 1 FOOT CENTER LIFT AND 2 FOOT TOP LIFT WITH TOPSOIL HEAPED FOR FINAL COMPLETION.
7. COMPACTED BACKFILL ABOVE CABLE SHALL NOT HAVE ROCKS LARGER THAN 1.5" DIAMETER.
8. ALL BACKFILL SHALL BE 140°CM/W (TO BE VERIFIED BY AMPACITY MODELING) OR LESS, AT 2% MOISTURE CONTENT SHALL BE USED.
9. ALL BACKFILL SHALL BE COMPACTED TO THE LESSOR OF 93 PERCENT OF THE ASTM D698 DRY-DENSITY VALUE OR THE NATIVE IN-SITU DENSITY.
10. USE 6" BORE-CARD SCHEDULE 40 FOR POWER CABLES 1/0 AWG TO 500 MCM. USE 8" HDPE SDR 13.5 FOR POWER CABLES GREATER THAN 500MCM.
11. ALL BACKFILL REQUIRED TO MATCH DENSITY OF EXISTING ADJACENT SOILS, TYP.
12. ADD CONDUITS AS REQUIRED
13. SEPARATION WILL BE DETERMINED BASED ON THE AMPACITY CALCULATIONS DURING IFC DESIGN

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

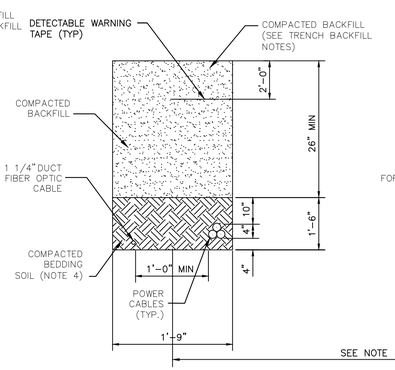
REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.



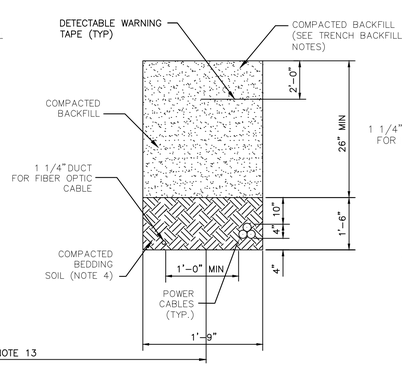

STANDARD TRENCH/ONE CIRCUIT (ST-1)
SCALE: NONE

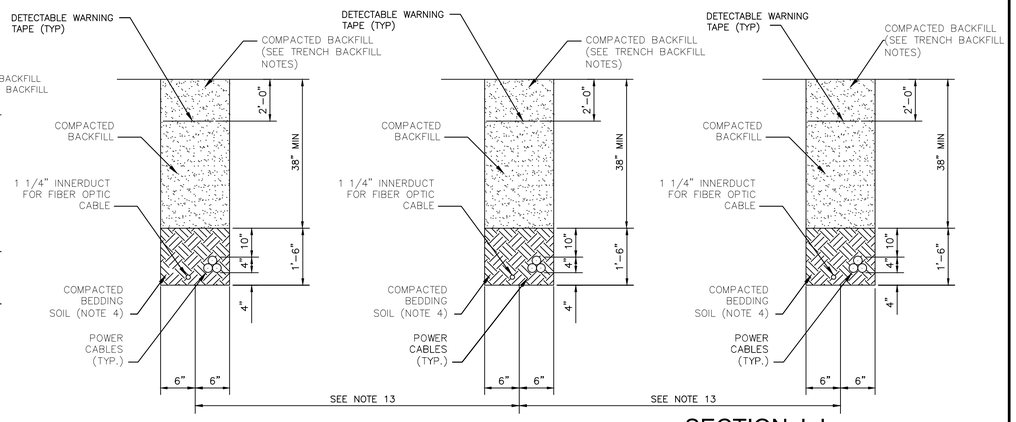
## SECTION A-A
SCALE: N.T.S.




STANDARD TRENCH/TWO CIRCUITS (ST-2)
SCALE: NONE

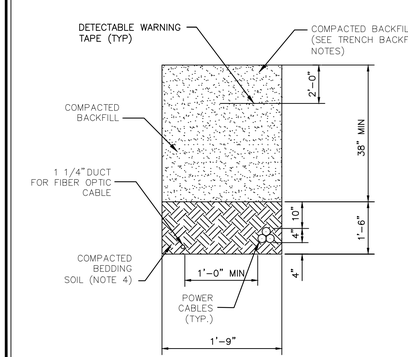
## SECTION B-B
SCALE: N.T.S.



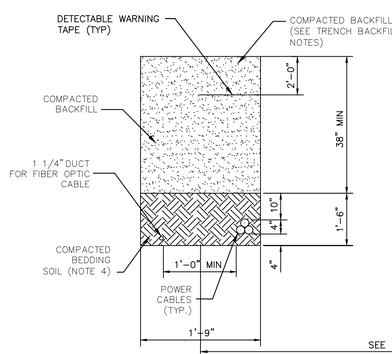

STANDARD TRENCH/THREE CIRCUITS (DT-3)
SCALE: NONE

## SECTION J-J
SCALE: N.T.S.



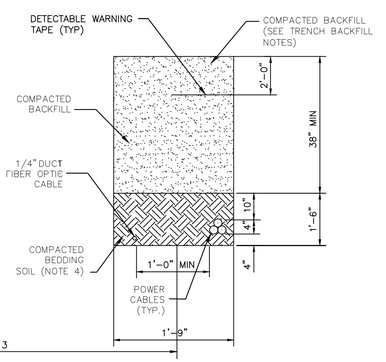

STANDARD TRENCH/ONE CIRCUIT
AREAS OUTSIDE OF FENCE IN CROPLAND, HAYLAND, AND IMPROVED PASTURE

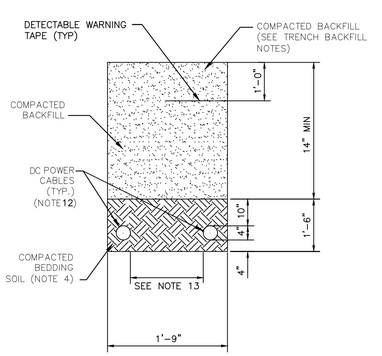
## SECTION G-G
SCALE: N.T.S.




STANDARD TRENCH/TWO CIRCUIT
AREAS OUTSIDE OF FENCE IN CROPLAND, HAYLAND, AND IMPROVED PASTURE

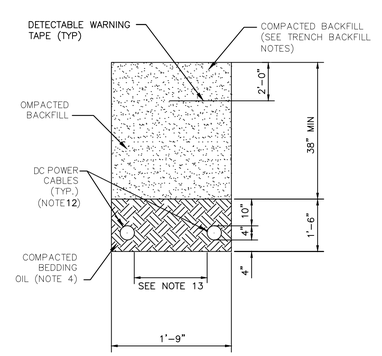
## SECTION H-H
SCALE: N.T.S.




TYPICAL DC TRENCH

## SECTION I-I
SCALE: N.T.S.




TYPICAL DC TRENCH
AREAS OUTSIDE OF FENCE IN CROPLAND, HAYLAND, AND IMPROVED PASTURE

## SECTION K-K
SCALE: N.T.S.

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2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
KEVIN G. MARTIN
LICENSED PROFESSIONAL ENGINEER
No. 099090

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR ENERGY FACILITY

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

TRENCH, BORING, AND CROSSING DETAILS

-

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | A. SILVA |
| DWN: | A. SILVA |
| CHK: | A. GROSHEV |
| APV: | |
| DATE: | 10/27/2021 |

SCALE AT 22" x 34":

NTS

SHEET NO: PV-C.12.01

REV: 0

AES Tracker 2/25/21 v181010

PLOTTED: 1/7/2022 1:10:0 PM
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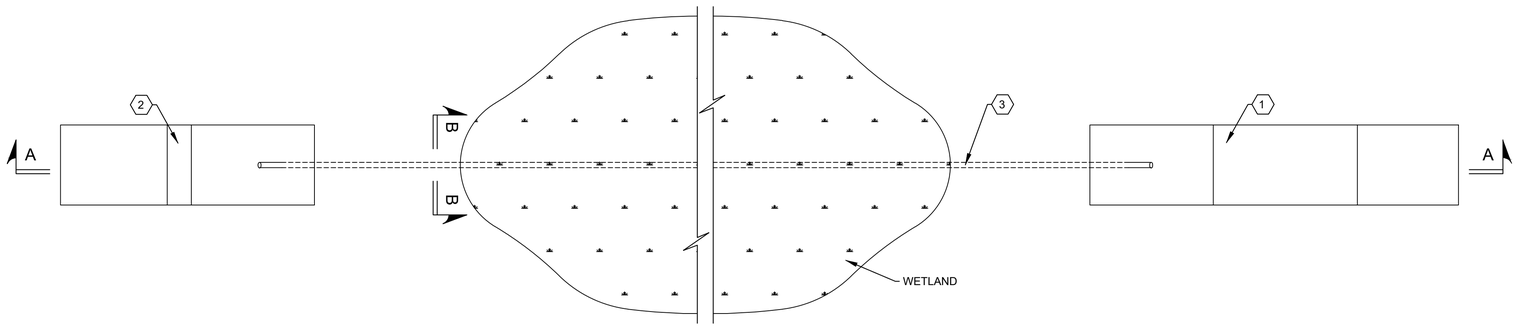
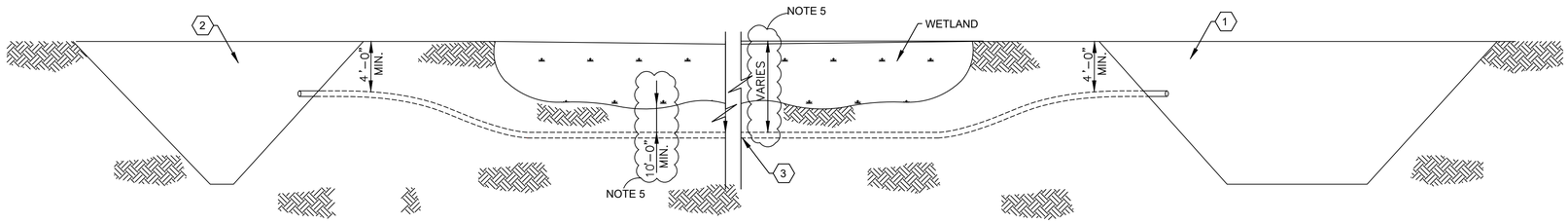
SHEET2

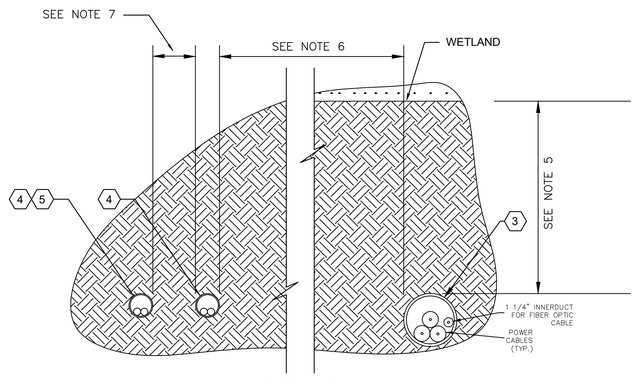
AES Titleblock 22X34 v210319




WETLAND BORING PLAN VIEW
SINGLE BORE SHOWN




DETAIL A
WETLAND BORING SECTION
(UGWC-1)




DETAIL B
TYPICAL BORE CONDUIT DETAIL

# SECTION F-F

SCALE: N.T.S.

## GENERAL NOTES:

1. CONTACT STATE CALL CENTER (811) FOR MARK-OUT OF ALL EXISTING UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION. MAINTAIN FIELD MARKINGS AS NECESSARY TO AVOID INTERFERENCE WITH EXISTING UNDERGROUND FACILITIES FOR DURATION OF CONSTRUCTION.
2. MAINTAIN 12" MINIMUM CLEAR DISTANCE FROM ALL FOREIGN SYSTEMS, INCLUDING CULVERTS.
3. PROVIDE GPS BALL MARKER. INSTALL NO DEEPER THAN 5'-0" AT EACH BORING PIT.
4. HANDLE AND DISPOSE OF DRILL SLURRY PER PROJECT ENVIRONMENTAL STANDARDS.
5. CONTRACTOR TO DETERMINE WETLAND DEPTH AND LOWEST POINT FOR BORING. BORE DEPTH SHALL BE A MINIMUM OF 10FT BELOW WETLANDS LOWEST POINT. DESIGN BORE IN ACCORDANCE WITH ASCE MANUAL NO. 108. BORING CONTRACTOR SHALL RETAIN FULL RESPONSIBILITY FOR BORE DESIGN AND EXECUTION
6. SOME LOCATIONS WILL REQUIRE BOTH MV COLLECTION BORES WITH ADJACENT DC COLLECTION CIRCUIT BORES. MAINTAIN A MINIMUM 10' SEPARATION DISTANCE FROM MV COLLECTION CIRCUIT HDD AND THE NEAREST DC COLLECTION CIRCUIT HDD.
7. SEPARATION WILL BE DETERMINED BASED ON THE AMPACITY CALCULATIONS DURING IFC DESIGN

## KEYED NOTES:

1. PIT FOR DIRECTIONAL DRILLING, JACKING, RAMMING, OR BORING. RECOMPACT DISTURBED SOILS TO PRE-EXCAVATION DENSITY.
2. RECEIVING PIT. RECOMPACT DISTURBED SOILS TO PRE-EXCAVATION DENSITY.
3. USE 6" BORE-GARD SCHEDULE 40 FOR POWER CABLES 4/0 AWG TO 500 MCM. USE 8" HDPE SDR 13.5 FOR POWER CABLES 750 MCM TO 1250 MCM.
4. USE MINIMUM 4" BORE-GUARD SCHEDULE 40 FOR DC COLLECTION CIRCUITS UP TO 750 KCMIL. NO MORE THAN 2 CURRENT CARRYING CONDUCTORS PER CONDUIT.
5. ADD ADDITIONAL HDD CONDUITS FOR THE REQUIRED NUMBER OF DC COLLECTION CIRCUITS.

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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · KEVIN G. MARTIN · No. 099090 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT TITLE:

BROOKSIDE SOLAR ENERGY FACILITY

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

WETLAND CROSSING DETAILS

-

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | A. SILVA |
| DWN: | A. SILVA |
| CHK: | A. GROSHEV |
| APV: | |
| DATE: | 01/14/2022 |

SCALE AT 22" x 34":

NTS

SHEET NO: PV-C.12.02

REV: 0

PLOTTED: 1/7/2022 12:03 PM
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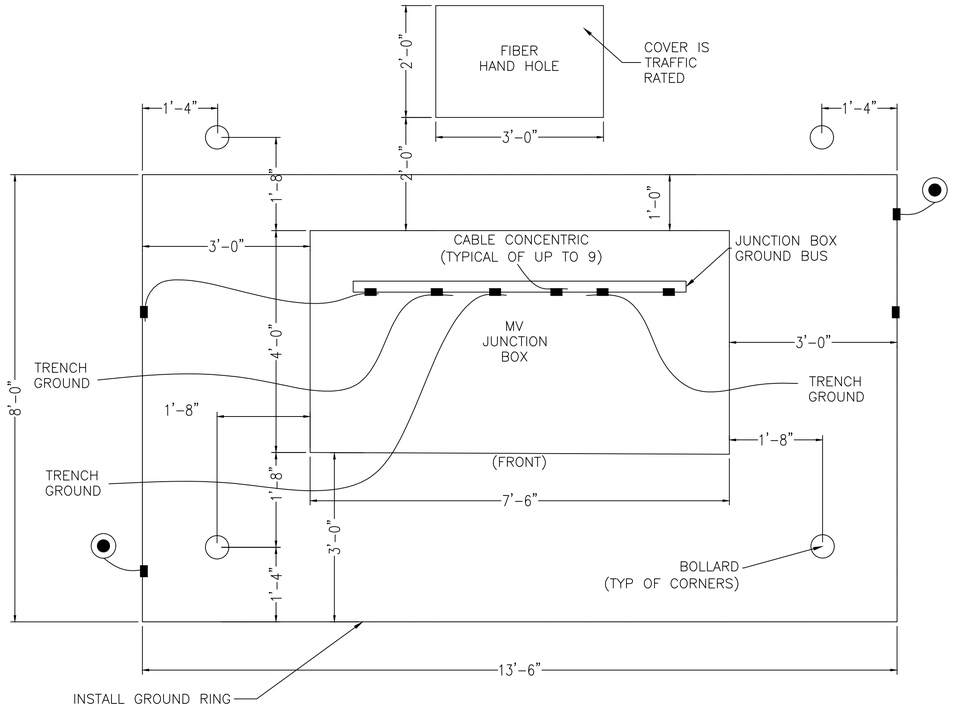
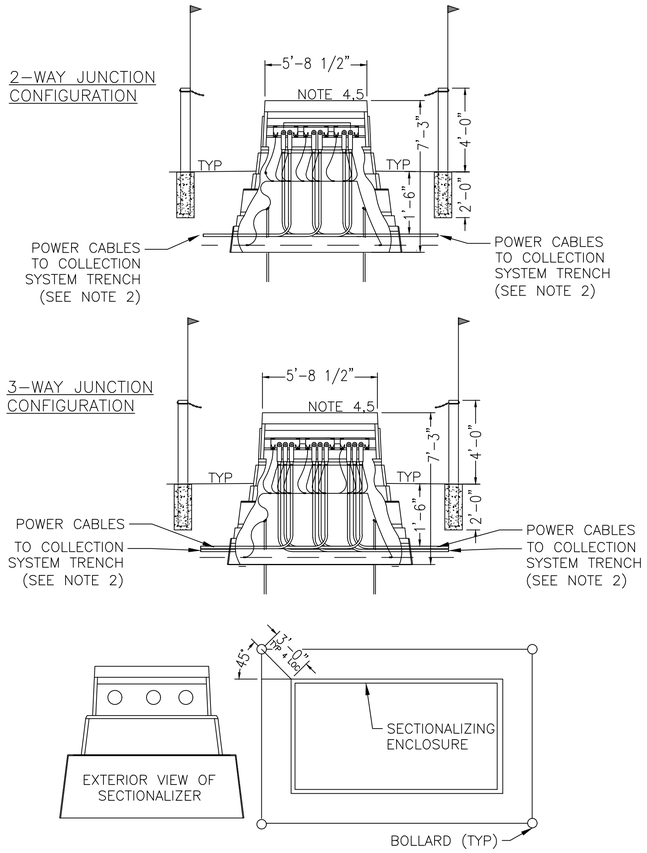
DWG

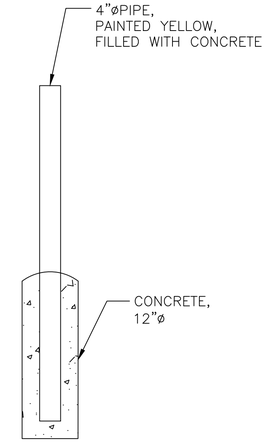
AES Tillerbox 22CSA-0f 03/19




CAN BE SEEN ON PAGES:
PV-C.01.15
PV-C.01.17

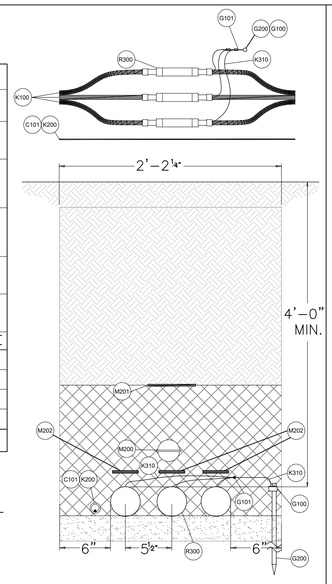
1 TYPICAL JUNCTION BOX PLAN VIEW
SCALE: N.T.S.



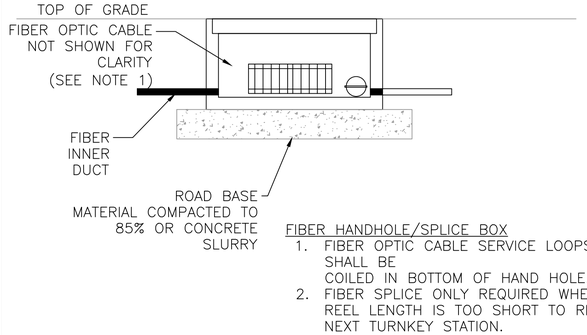




2 BOLLARD DETAIL
SCALE: N.T.S.

| BILL OF MATERIALS | | |
|---|---|---|
| MARK | QTY | DESCRIPTION |
| C101 | A/R | HDPE INNER DUCT, 1.25" SDR 13.5 |
| G100 | 1 | GROUNDING CONNECTOR, COMPRESSION, #2 Cu TO GROUND ROD |
| G101 | 2 | GROUNDING CONNECTOR, #2 AWG SOLID TO TRENCH GROUND |
| G200 | 1 | GROUND ROD, 5/8" x 10' COPPER |
| K100 | A/R | 35kV CABLE PER CABLE SCHEDULE |
| K200 | A/R | 12F – FIBER OPTIC CABLE |
| K310 | A/R | #2AWG SOLID Cu, BARE |
| M200 | 1 | MARKER BALL |
| M201 | A/R | WARNING TAPE |
| M202 | 3 | PHASE MARKINGS |
| R300 | 3 | SPLICE KIT, 35kV INLINE |

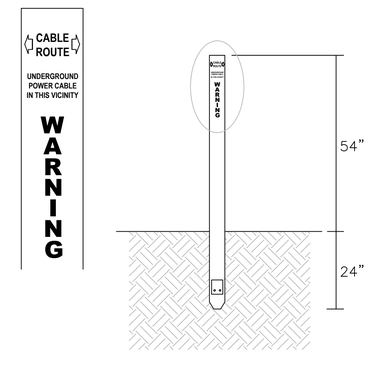



3 MV CABLE SPLICE DETAIL
SCALE: N.T.S.




FIBER HANDHOLE/SPLICE BOX
1. FIBER OPTIC CABLE SERVICE LOOPS SHALL BE COILED IN BOTTOM OF HAND HOLE.
2. FIBER SPLICE ONLY REQUIRED WHERE REEL LENGTH IS TOO SHORT TO REACH NEXT TURNKEY STATION.

4 FIBER HANDHOLE/SPLICE BOX
SCALE: N.T.S.




5 CABLE MARKER DETAIL
SCALE: N.T.S.

GENERAL NOTES:

1. INSTALL IR VIEW PORT PER INSTALLATION INSTRUCTIONS FOR FLK–CLKT, IF POSSIBLE DISPLAY TO FACE ROADWAY
2. INSTALL ONE FULL COIL OF SLACK MV CABLE FOR EACH CIRCUIT, EACH PHASE, 500 KCMIL CABLE SHALL BE COILED INSIDE JUNCTION BOX, 750 KCMIL AND LARGER CABLE SHALL BE COILED OUTSIDE OF JUNCTION BOX, PROVIDE 3M 1422–XR/ID BALL MARKER. INSTALL NO DEEPER THAN 5'–0' AT EACH LOOP. AT THESE LOCATIONS PROVIDE A CONDUIT PAVEWAY/RACK TO HELP PULL IN SLACK CABLE.
3. ATTACH LABELS TO EACH CONDUCTOR IDENTIFYING PHASING AND CIRCUIT # OF THE CABLES. PROVIDE LABELS AT ENTRY AND EXIT.
4. CABLE TERMINATIONS NEAREST TO SUBSTATION SHALL HAVE SINGLE WRAP PHASING TAPE, SIDE AWAY FROM SUBSTATION SHALL HAVE DOUBLE WRAP PHASING TAPE.
5. THE FOLLOWING TAPE SHALL BE USED FOR PHASE INDICATION: RED TAPE FOR PHASE A, WHITE TAPE FOR PHASE B, AND BLUE FOR PHASE C.
6. FINISHED GRADE SHALL BE 2" ABOVE WHERE JUNCTION BOX SECTIONALIZER ATTACH.

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PE STAMP:




KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR ENERGY FACILITY

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

SYSTEM SECTIONALIZING AND SPLICING DETAILS

-

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | A. SILVA |
| DWN: | A. SILVA |
| CHK: | A. GROSHEV |
| APV: | |
| DATE: | 01/14/2022 |

SCALE AT 22" x 34":

NTS

SHEET NO: PV-C.12.03

REV: 0

PLOTTED: 1/14/2022 1:22 PM
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kngemp




PRELIMINARY
NOT FOR CONSTRUCTION

600 0 600 1200 FT

SCALE: 1" = 600'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

OVERALL LANDSCAPE PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.00

REV: 0

Call 811 before you dig

PLOTTED: 1/19/2022 3:36 PM
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AES Tabletop 22X34 v210310

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 1 | VM-1 | N 44.937220 | W 74.138900 |
| 2 | VM-1 | N 44.936026 | W 74.138908 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 3 | VM-2 | N 44.933707 | W 74.134812 |
| 4 | VM-2 | N 44.933699 | W 74.132155 |
| 5 | VM-2 | N 44.933703 | W 74.132109 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 6 | VM-3 | N 44.934629 | W 74.138649 |
| 7 | VM-3 | N 44.934350 | W 74.138732 |
| 8 | VM-3 | N 44.933617 | W 74.138736 |
| 9 | VM-3 | N 44.933621 | W 74.140004 |
| 10 | VM-3 | N 44.932611 | W 74.140010 |
| 11 | VM-3 | N 44.930351 | W 74.139707 |
| 12 | VM-3 | N 44.930207 | W 74.139695 |
| 13 | VM-3 | N 44.929470 | W 74.139582 |
| 14 | VM-3 | N 44.929391 | W 74.140606 |

N

VM-1
Lat.: N44.937220
Long.: W74.138900

VM-1
Lat.: N44.936026
Long.: W74.138908

VM-3
Lat.: N44.934629
Long.: W74.138649

VM-3
Lat.: N44.934350
Long.: W74.138732

VM-3
Lat.: N44.933621
Long.: W74.140004

VM-3
Lat.: N44.933617
Long.: W74.138736

VM-2
Lat.: N44.933707
Long.: W74.134812

USACE W-WCR-1

USACE W-WCR-2

USACE W-WCR-3

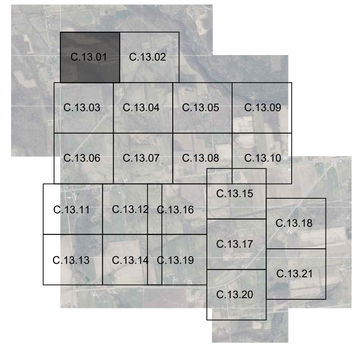
LOD

E1

FOR CONTINUATION, SEE SHEET PV-C.13.03

FOR CONTINUATION, SEE SHEET PV-C.13.04

FOR CONTINUATION, SEE SHEET PV-C.13.02




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · LICENSED PROFESSIONAL ENGINEER · 079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.01

REV: 0

AES Tilelock 22X34 v210319
PLOTTED: 1/19/2022 3:37 PM
By: Fiebranz, Tyler
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AES Tileblock 22X34 v210319

FOR CONTINUATION, SEE SHEET PV-C.13.01

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 3 | VM-2 | N 44.933707 | W 74.134812 |
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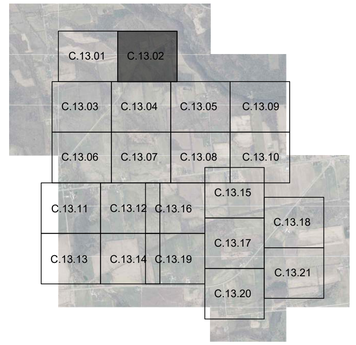


KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| PROJ NUM: | 422299 |
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| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.02
REV: 0

PLOTTED: 1/19/2022 3:37 PM
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X:\Projects\422299\ACAD\BASE-NATURAL RESOURCES\422299-BASE-NATURAL RESOURCES.dwg
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FOR CONTINUATION, SEE SHEET PV-C.13.01

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 6 | VM-3 | N 44.934629 | W 74.138649 |
| 7 | VM-3 | N 44.934350 | W 74.138732 |
| 8 | VM-3 | N 44.933617 | W 74.138736 |
| 9 | VM-3 | N 44.933621 | W 74.140004 |
| 10 | VM-3 | N 44.932611 | W 74.140010 |
| 11 | VM-3 | N 44.930351 | W 74.139707 |
| 12 | VM-3 | N 44.930207 | W 74.139695 |
| 13 | VM-3 | N 44.929470 | W 74.139582 |
| 14 | VM-3 | N 44.929391 | W 74.140606 |

VM-3
Lat.: N44.932611
Long.: W74.140010

VM-3
Lat.: N44.930351
Long.: W74.139707

VM-3
Lat.: N44.930207
Long.: W74.139695

VM-3
Lat.: N44.929470
Long.: W74.139582

VM-3
Lat.: N44.929391
Long.: W74.140606

24' DOUBLE SWING GATE

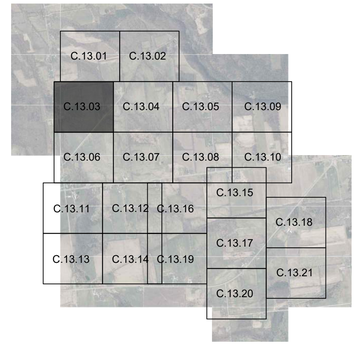
24' DOUBLE SWING GATE

ENTRANCE 3

ENTRANCE 4

W-JJB-1

Barn
Residence
COMM
TANK
Cross Woods Road
Shaw Road
Shaw Road
Wetland
Right-of-way Road
Shaw Road (40 ft ROW width)
Centerline Right-of-way




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

- REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)
- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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FOR CONTINUATION, SEE SHEET PV-C.13.04

FOR CONTINUATION, SEE SHEET PV-C.13.06

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2180 South 1300 East, Suite 600
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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

| SHEET NO: | REV: |
|---|---|
| PV-C.13.03 | 0 |

AES Tilelock 22X34 v210319

PLOTTED: 1/19/2022 3:37 PM
BY: tfiebranz
X-REFs: x:\SBM\060\422299\DWG\C.001.dwg, x:\SBM\060\422299-BASE-LANDSCAPE.dwg, 422299-BASE-AERIAL.dwg, x:\SBM\060\422299-BASE-NATURAL RESOURCES.dwg, x:\SBM\060\422299-BASE-PV LAYOUT.dwg, x:\SBM\060\422299-BASE-LAYOUT.dwg, x:\SBM\060\422299-BASE-TRANS LAYOUT.dwg, x:\SBM\060\422299-BASE-COLLECTION.dwg

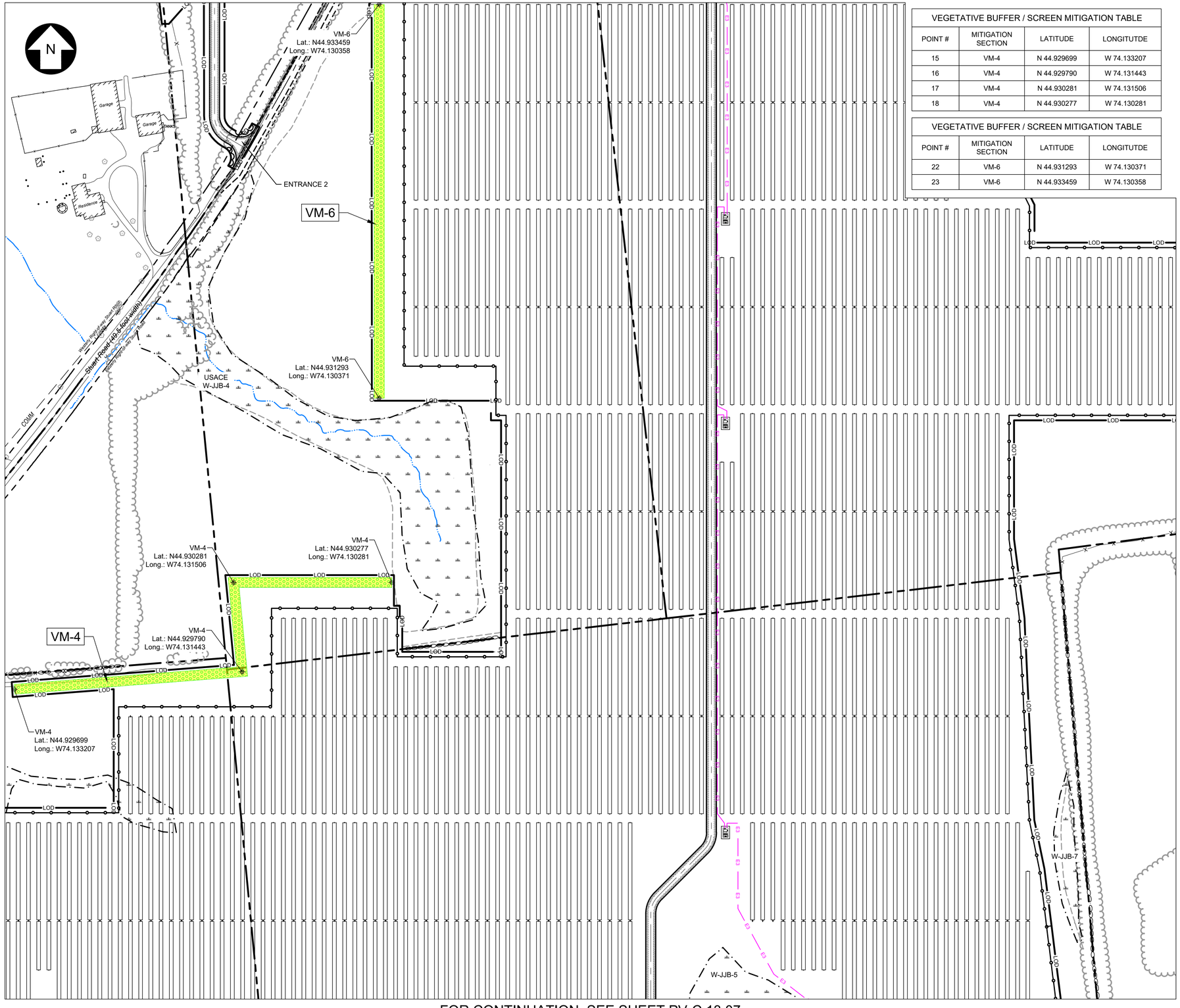
FOR CONTINUATION, SEE SHEET PV-C.13.01

FOR CONTINUATION, SEE SHEET PV-C.13.02

FOR CONTINUATION, SEE SHEET PV-C.13.03

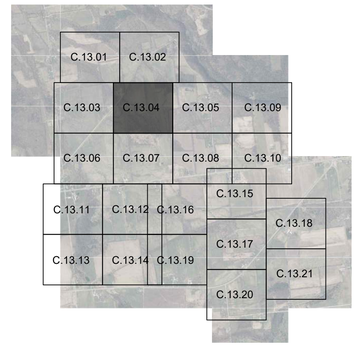
FOR CONTINUATION, SEE SHEET PV-C.13.05

FOR CONTINUATION, SEE SHEET PV-C.13.07




| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 15 | VM-4 | N 44.929699 | W 74.133207 |
| 16 | VM-4 | N 44.929790 | W 74.131443 |
| 17 | VM-4 | N 44.930281 | W 74.131506 |
| 18 | VM-4 | N 44.930277 | W 74.130281 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 22 | VM-6 | N 44.931293 | W 74.130371 |
| 23 | VM-6 | N 44.933459 | W 74.130358 |




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
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| | NON LEASE LINE | |
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| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

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- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

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PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

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| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.04
REV: 0

AES Tilelock 22X34 v210319
PLOTTED: 1/19/2022 3:37 PM
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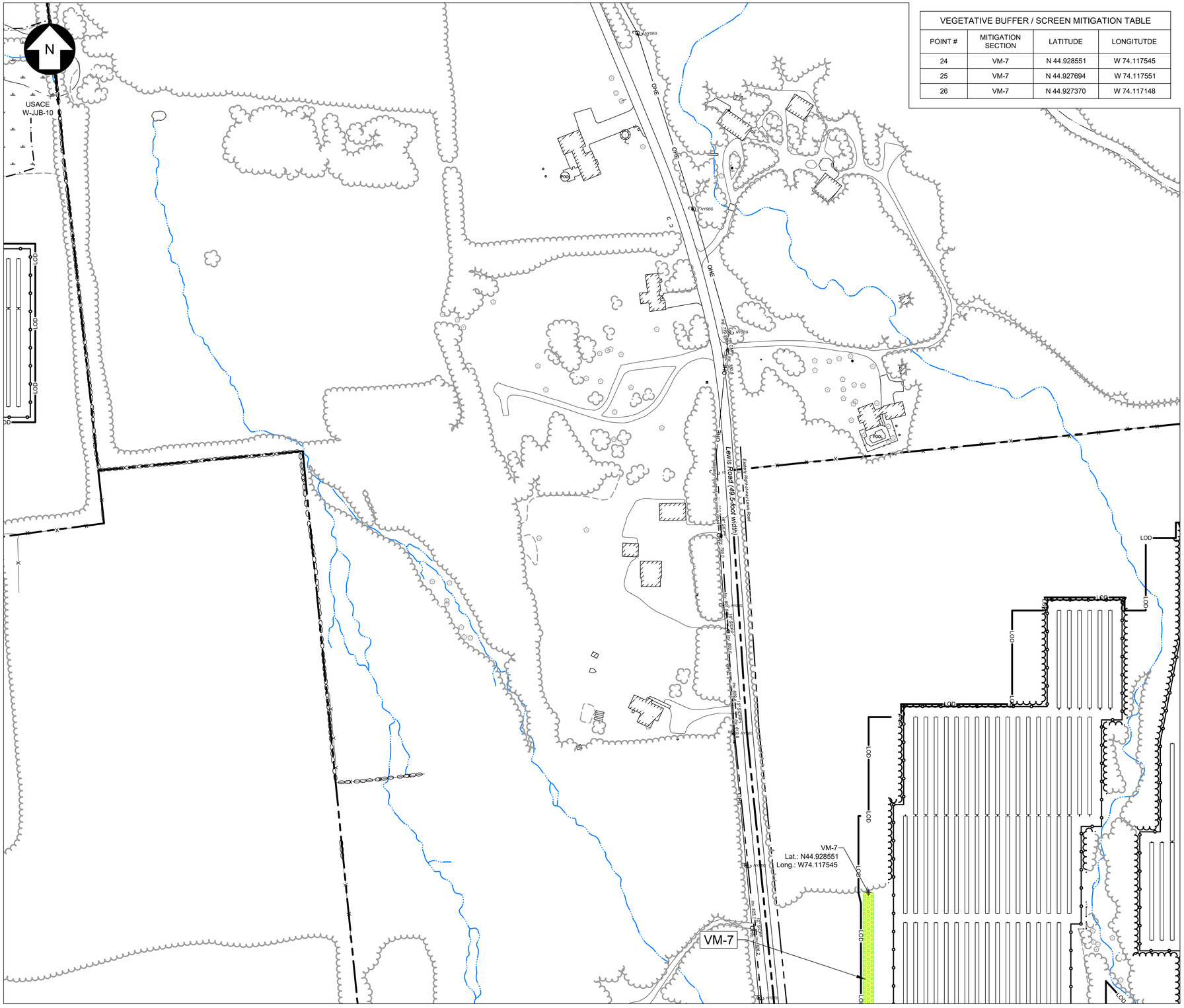
FOR CONTINUATION, SEE SHEET PV-C.13.02

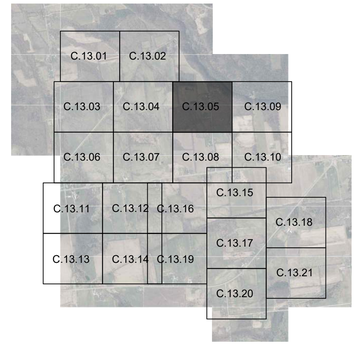



FOR CONTINUATION, SEE SHEET PV-C.13.04

FOR CONTINUATION, SEE SHEET PV-C.13.09

FOR CONTINUATION, SEE SHEET PV-C.13.08

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 24 | VM-7 | N 44.928551 | W 74.117545 |
| 25 | VM-7 | N 44.927694 | W 74.117551 |
| 26 | VM-7 | N 44.927370 | W 74.117148 |




KEY MAP
SCALE: 1" = 3000'

LEGEND

EXISTING / PROPOSED

- PROPERTY BOUNDARY
- 94C SETBACK
- TOWN SETBACK
- LIMIT OF DISTURBANCE — LOD
- SOIL BOUNDARY
- SILT FENCE — SF — SF
- OHE — OVERHEAD ELECTRIC
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- GRAVEL ROAD
- BASELINE
- PV ARRAY
- EQUIPMENT PADS & BOLLARDS
- 598 — MINOR CONTOUR — 598
- 600 — MAJOR CONTOUR — 600
- WETLAND
- STREAM
- WATER SURFACE
- TREELINE
- BRUSH
- BUILDING
- STONE WALL
- UTILITY POLE
- VALVE
- CULVERT
- WETLAND / STREAM BUFFER
- LAYDOWN YARD
- TOWN BOUNDARY
- COLLECTOR LINE — E1
- RIGHT OF WAY
- PAVED ROAD
- NON LEASE LINE
- DRIVEWAY
- HORIZONTAL DIRECTIONAL DRILL

## LANDSCAPE LEGEND

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DANIEL T BUTLER
079800
LICENSED PROFESSIONAL ENGINEER

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| PROJ NUM: | 422299 |
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| DWN: | T.FIEBRANZ |
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| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

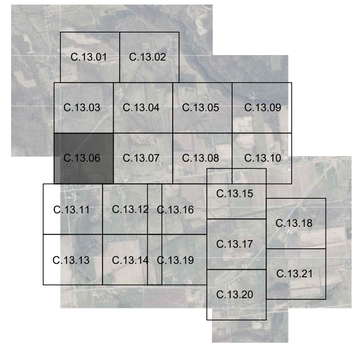
AS NOTED

SHEET NO: PV-C.13.05
REV: 0

FOR CONTINUATION, SEE SHEET PV-C.13.03

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 27 | VM-8 | N 44.926312 | W 74.140395 |
| 28 | VM-8 | N 44.926307 | W 74.139024 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 29 | VM-9 | N 44.926704 | W 74.138006 |
| 30 | VM-9 | N 44.925721 | W 74.138012 |
| 31 | VM-9 | N 44.925715 | W 74.136116 |
| 32 | VM-9 | N 44.924589 | W 74.136123 |
| 33 | VM-9 | N 44.924573 | W 74.131085 |
| 34 | VM-9 | N 44.924570 | W 74.130257 |
| 35 | VM-9 | N 44.924137 | W 74.130259 |
| 36 | VM-9 | N 44.923971 | W 74.130246 |
| 37 | VM-9 | N 44.923874 | W 74.130126 |




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

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FOR CONTINUATION, SEE SHEET PV-C.13.11

FOR CONTINUATION, SEE SHEET PV-C.13.12

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SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.06
REV: 0

AES Tileblock 22X34 v210319
PLOTTED: 1/19/2022 3:38 PM
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FOR CONTINUATION, SEE SHEET PV-C.13.04

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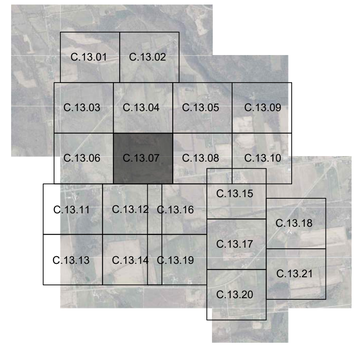
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 29 | VM-9 | N 44.926704 | W 74.138006 |
| 30 | VM-9 | N 44.925721 | W 74.138012 |
| 31 | VM-9 | N 44.925715 | W 74.136116 |
| 32 | VM-9 | N 44.924589 | W 74.136123 |
| 33 | VM-9 | N 44.924573 | W 74.131085 |
| 34 | VM-9 | N 44.924570 | W 74.130257 |
| 35 | VM-9 | N 44.924137 | W 74.130259 |
| 36 | VM-9 | N 44.923971 | W 74.130246 |
| 37 | VM-9 | N 44.923874 | W 74.130126 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 38 | VM-10 | N 44.923779 | W 74.129841 |
| 39 | VM-10 | N 44.923769 | W 74.126628 |
| 40 | VM-10 | N 44.923958 | W 74.126387 |
| 41 | VM-10 | N 44.924124 | W 74.126372 |
| 42 | VM-10 | N 44.924473 | W 74.126370 |
| 43 | VM-10 | N 44.924470 | W 74.125501 |
| 44 | VM-10 | N 44.925203 | W 74.125496 |
| 45 | VM-10 | N 44.925202 | W 74.125038 |
| 46 | VM-10 | N 44.925449 | W 74.124726 |




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF SF | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
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FOR CONTINUATION, SEE SHEET PV-C.13.16

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PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

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| SHEET NO: | REV: |
|---|---|
| PV-C.13.07 | 0 |

AES Tilelock 22X34 v210319
PLOTTED: 1/19/2022 3:38 PM
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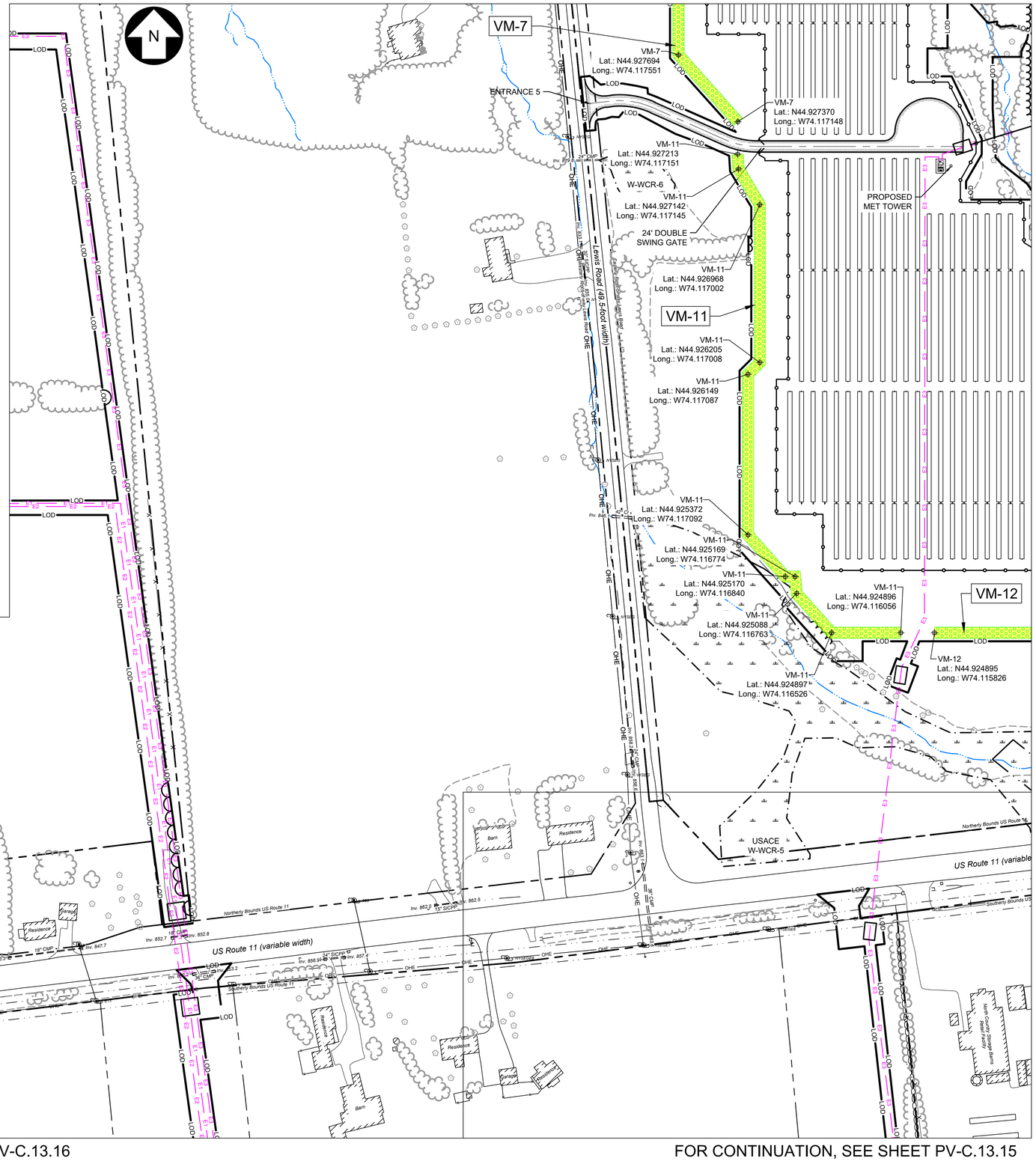
FOR CONTINUATION, SEE SHEET PV-C.13.05

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 24 | VM-7 | N 44.928551 | W 74.117545 |
| 25 | VM-7 | N 44.927694 | W 74.117551 |
| 26 | VM-7 | N 44.927370 | W 74.117148 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 47 | VM-11 | N 44.927213 | W 74.117151 |
| 48 | VM-11 | N 44.927142 | W 74.117145 |
| 49 | VM-11 | N 44.926968 | W 74.117002 |
| 50 | VM-11 | N 44.926205 | W 74.117008 |
| 51 | VM-11 | N 44.926149 | W 74.117087 |
| 52 | VM-11 | N 44.925372 | W 74.117092 |
| 53 | VM-11 | N 44.925170 | W 74.116840 |
| 54 | VM-11 | N 44.925169 | W 74.116774 |
| 55 | VM-11 | N 44.925088 | W 74.116763 |
| 56 | VM-11 | N 44.924897 | W 74.116526 |
| 57 | VM-11 | N 44.924896 | W 74.116056 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 58 | VM-12 | N 44.924895 | W 74.115826 |
| 59 | VM-12 | N 44.924892 | W 74.114969 |
| 60 | VM-12 | N 44.925025 | W 74.114647 |
| 61 | VM-12 | N 44.925113 | W 74.114253 |
| 62 | VM-12 | N 44.925238 | W 74.113848 |
| 63 | VM-12 | N 44.925423 | W 74.113614 |
| 64 | VM-12 | N 44.925588 | W 74.113598 |
| 65 | VM-12 | N 44.926091 | W 74.113595 |
| 66 | VM-12 | N 44.925799 | W 74.112503 |
| 67 | VM-12 | N 44.925219 | W 74.111824 |
| 68 | VM-12 | N 44.925004 | W 74.111804 |

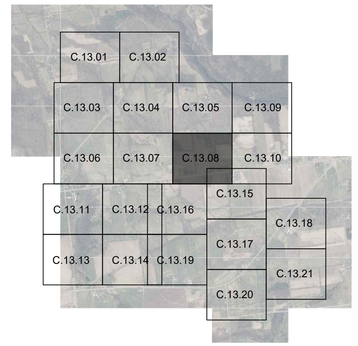



FOR CONTINUATION, SEE SHEET PV-C.13.16

FOR CONTINUATION, SEE SHEET PV-C.13.15

FOR CONTINUATION, SEE SHEET PV-C.13.07

FOR CONTINUATION, SEE SHEET PV-C.13.10




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

- REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)
- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Ohio Safety Underground Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

aes
2180 South 1300 East, Suite 600
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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.08
REV: 0

AES Tilelock 22X34 v210319
PLOTTED: 1/19/2022 3:38 PM
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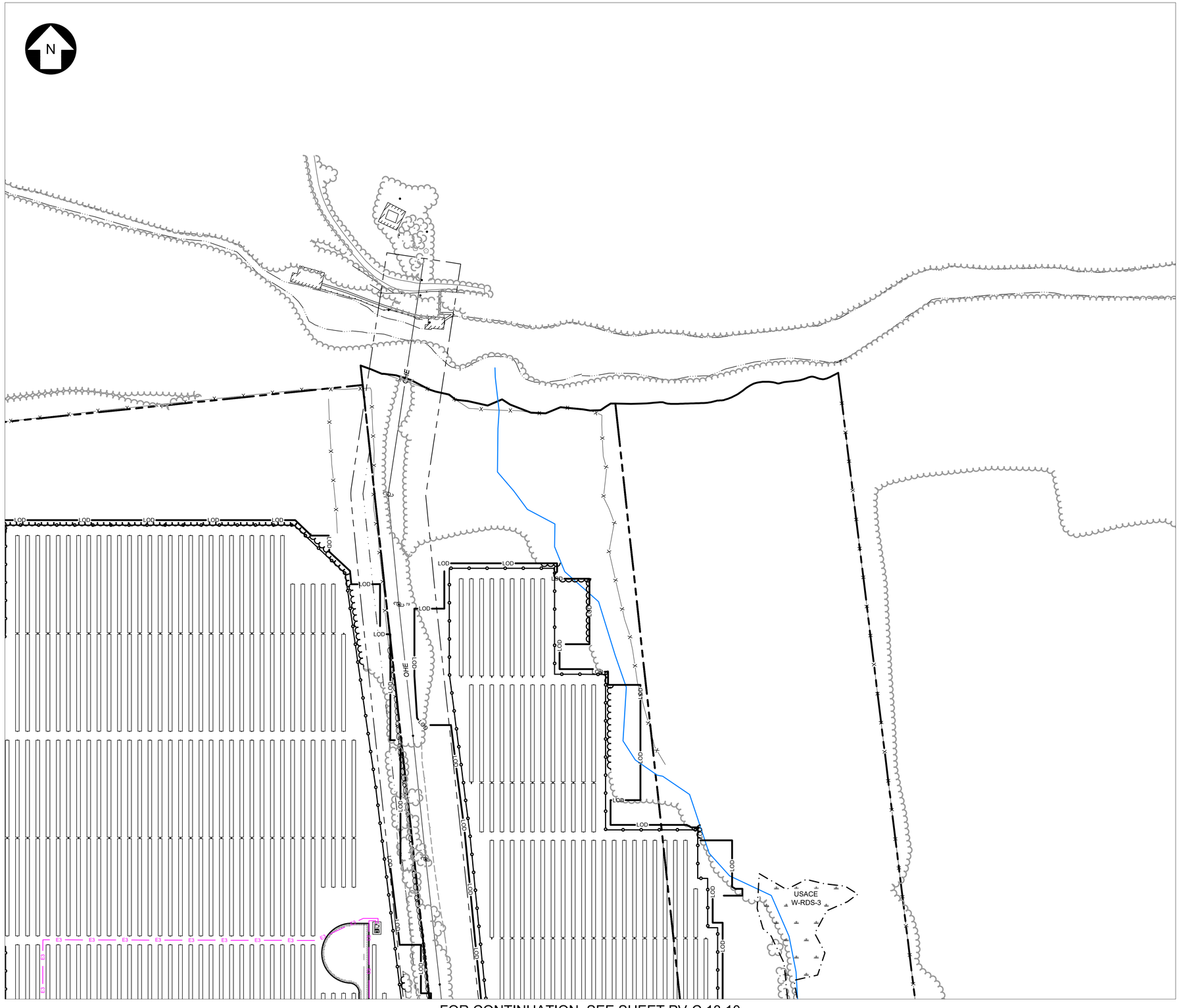
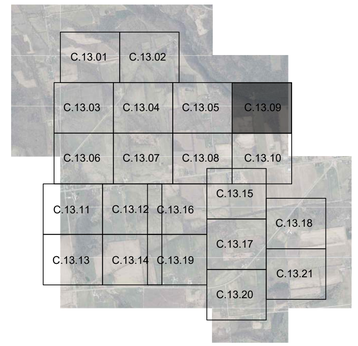
AES Tilebock 22X34 v210319

FOR CONTINUATION, SEE SHEET PV-C.13.05




FOR CONTINUATION, SEE SHEET PV-C.13.10




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

----

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRAN |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

| SHEET NO: | REV: |
|---|---|
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FOR CONTINUATION, SEE SHEET PV-C.13.09




FOR CONTINUATION, SEE SHEET PV-C.13.15

FOR CONTINUATION, SEE SHEET PV-C.13.08

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 58 | VM-12 | N 44.924895 | W 74.115826 |
| 59 | VM-12 | N 44.924892 | W 74.114969 |
| 60 | VM-12 | N 44.925025 | W 74.114647 |
| 61 | VM-12 | N 44.925113 | W 74.114253 |
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| 65 | VM-12 | N 44.926091 | W 74.113595 |
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| 67 | VM-12 | N 44.925219 | W 74.111824 |
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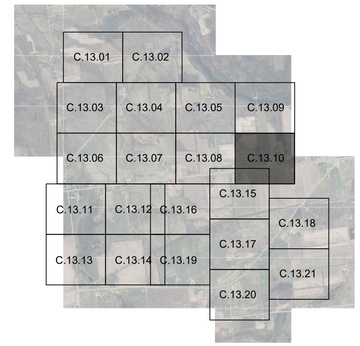
| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 69 | VM-13 | N 44.927367 | W 74.109432 |
| 70 | VM-13 | N 44.927125 | W 74.109434 |
| 71 | VM-13 | N 44.926960 | W 74.109449 |
| 72 | VM-13 | N 44.926781 | W 74.109676 |
| 73 | VM-13 | N 44.926686 | W 74.109772 |
| 74 | VM-13 | N 44.926520 | W 74.109912 |
| 75 | VM-13 | N 44.926286 | W 74.109914 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 76 | VM-14 | N 44.926139 | W 74.109836 |
| 77 | VM-14 | N 44.925673 | W 74.109839 |




KEY MAP
SCALE: 1" = 3000'

LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

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PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| - | - | - |
| - | - | - |
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| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.10 REV: 0

AES Tilelock 22X34 v210319
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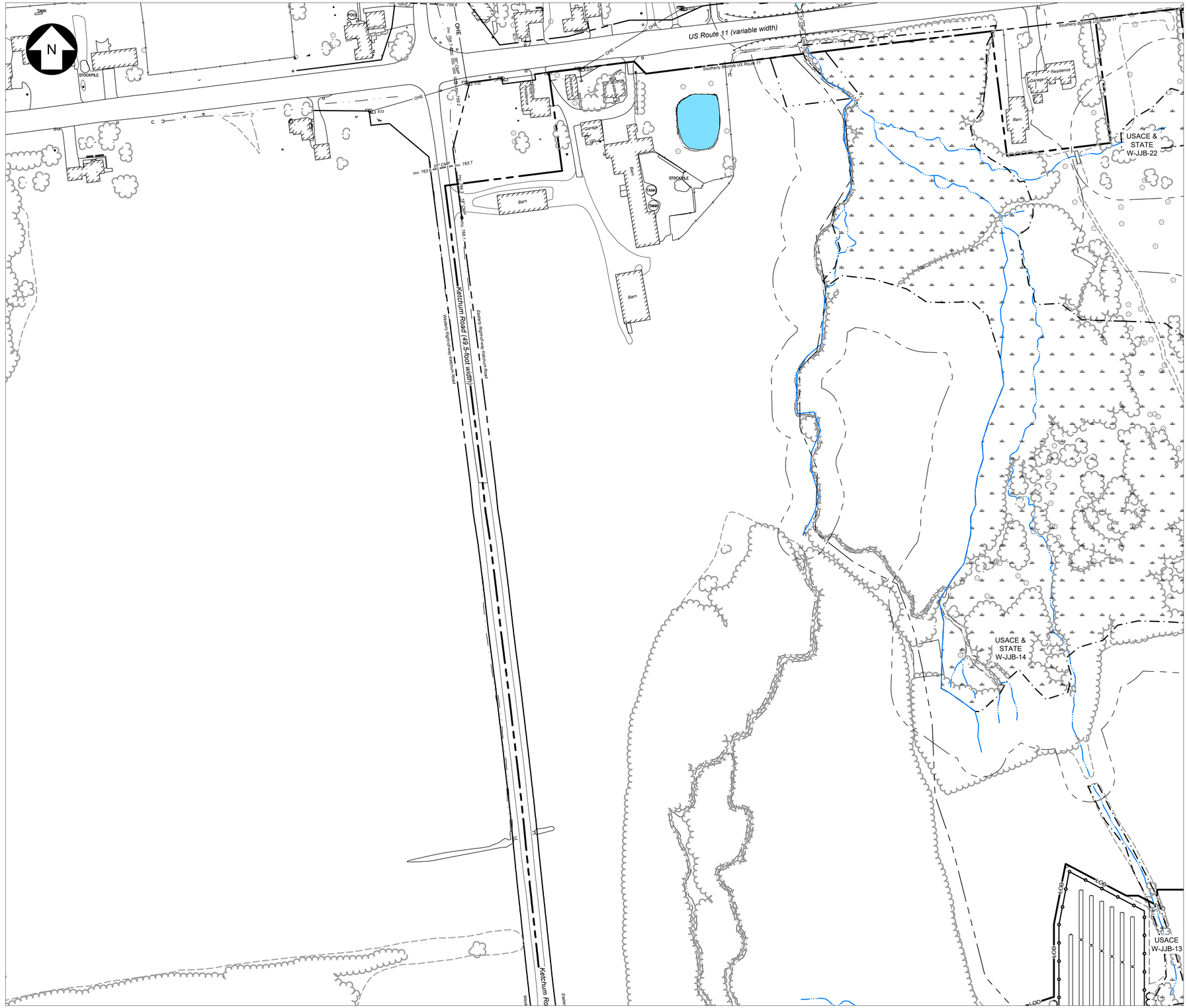
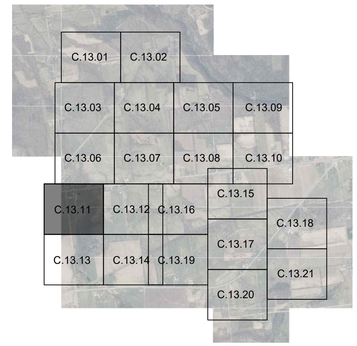
FOR CONTINUATION, SEE SHEET PV-C.13.06




FOR CONTINUATION, SEE SHEET PV-C.13.13




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
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| | CULVERT | |
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| | LAYDOWN YARD | |
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| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

- REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)
- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

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100 0 100 200 FT
SCALE: 1" = 100'

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KEY PLAN:

REVISIONS:

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| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

| SHEET NO: | REV: |
|---|---|
| PV-C.13.11 | 0 |

AES Tilelock 22X34_v100310

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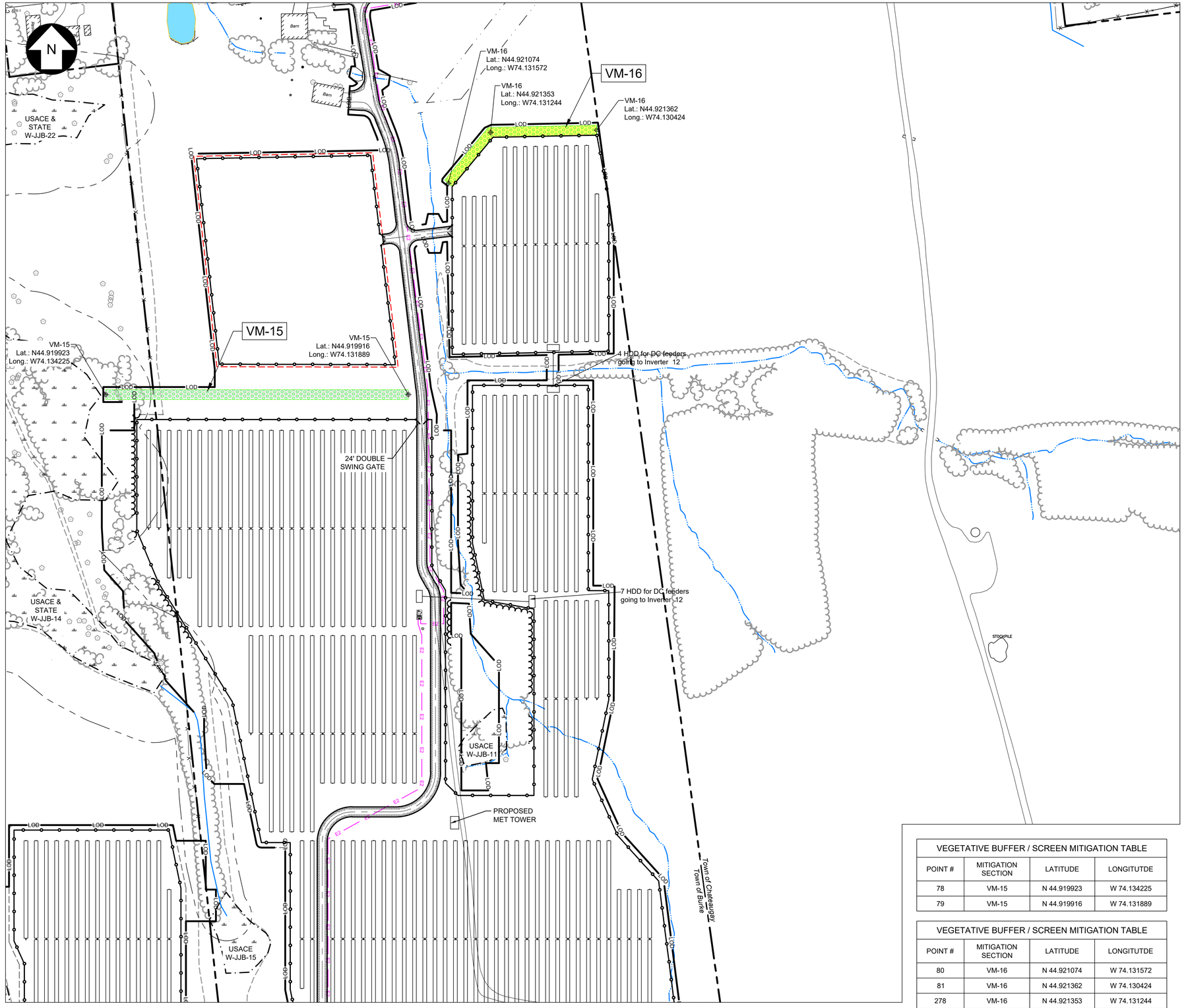
FOR CONTINUATION, SEE SHEET PV-C.13.06

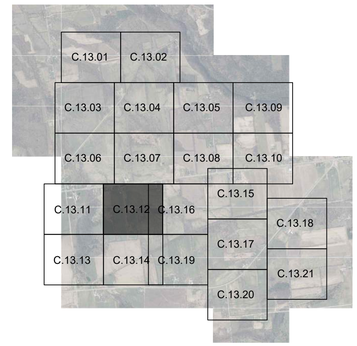
FOR CONTINUATION, SEE SHEET PV-C.13.07

FOR CONTINUATION, SEE SHEET PV-C.13.11

FOR CONTINUATION, SEE SHEET PV-C.13.14

FOR CONTINUATION, SEE SHEET PV-C.13.16




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
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| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

- REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)
- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 78 | VM-15 | N 44.919923 | W 74.134225 |
| 79 | VM-15 | N 44.919916 | W 74.131889 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 80 | VM-16 | N 44.921074 | W 74.131572 |
| 81 | VM-16 | N 44.921362 | W 74.130424 |
| 278 | VM-16 | N 44.921353 | W 74.131244 |

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

NONE

SHEET NO: PV-C.13.12

REV: 0

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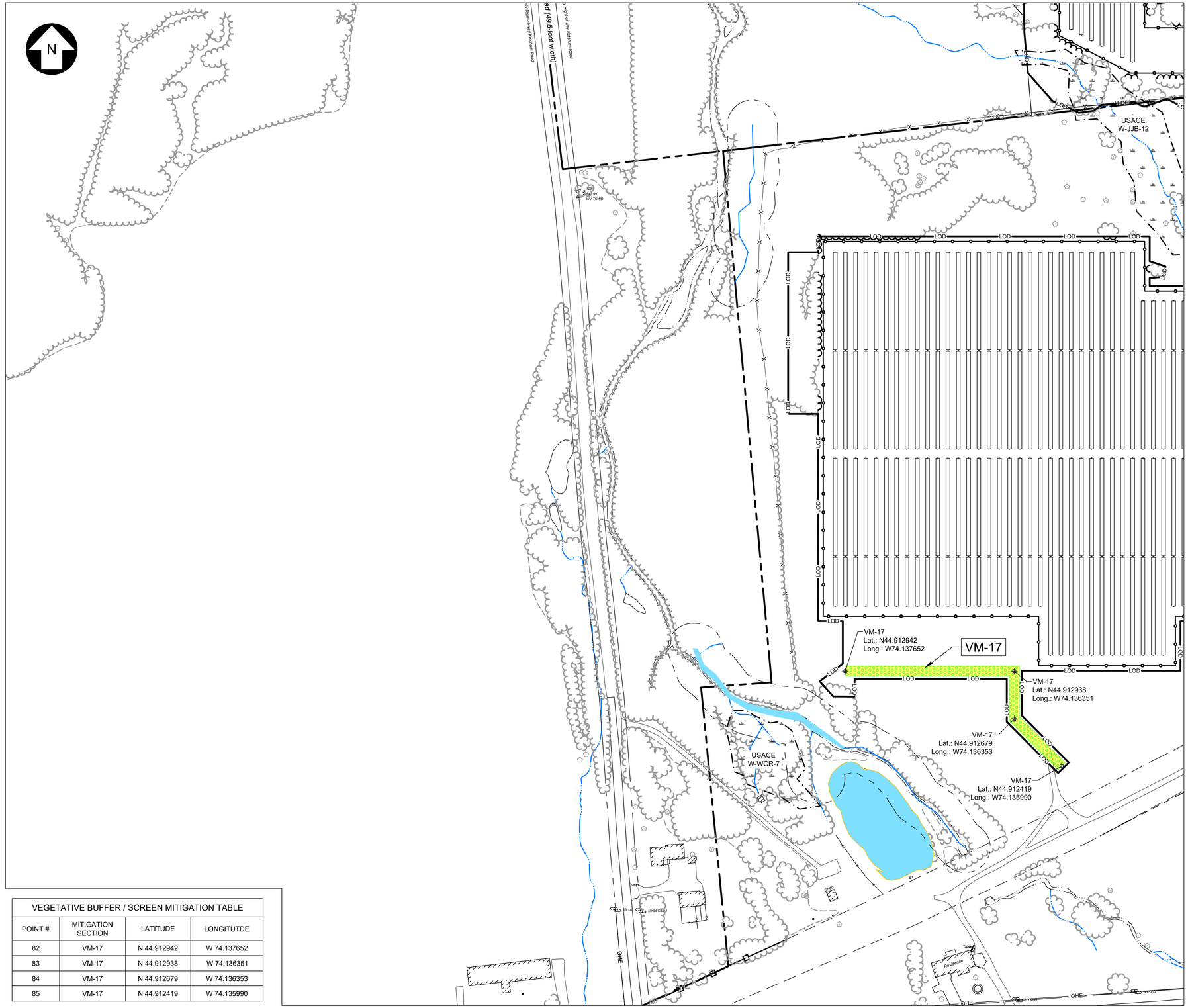
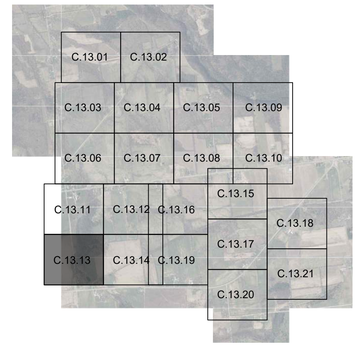
FOR CONTINUATION, SEE SHEET PV-C.13.11




| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 82 | VM-17 | N 44.912942 | W 74.137652 |
| 83 | VM-17 | N 44.912938 | W 74.136351 |
| 84 | VM-17 | N 44.912679 | W 74.136353 |
| 85 | VM-17 | N 44.912419 | W 74.135990 |




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
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- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

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ENLARGED LANDSCAPE PLAN

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| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.13 REV: 0

AES Tillsbock 22X34.v210310
PLOTTED: 1/19/2022 3:40 PM
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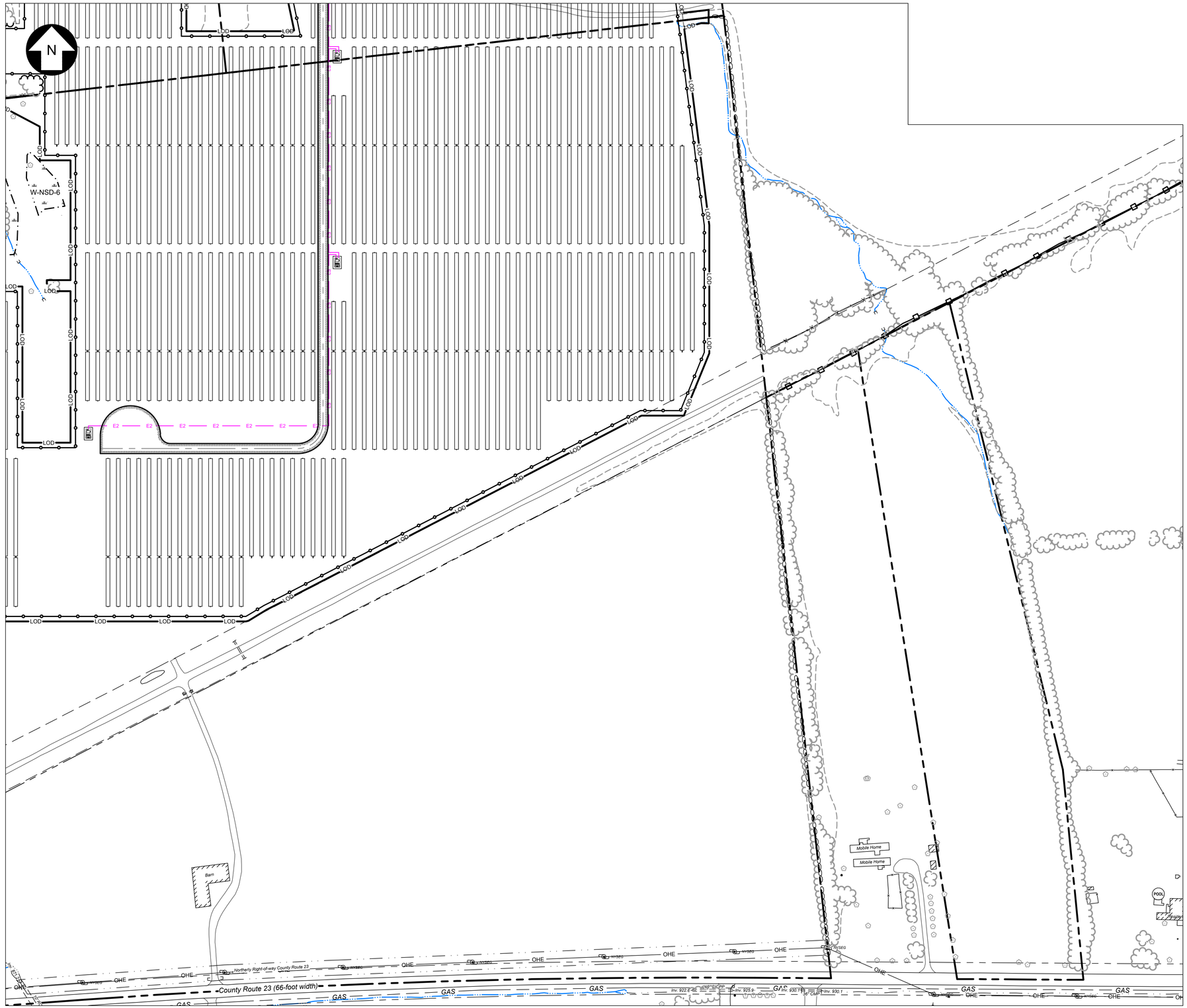
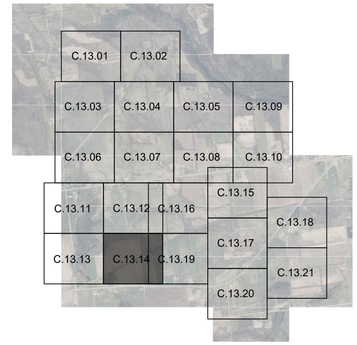
FOR CONTINUATION, SEE SHEET PV-C.13.12

FOR CONTINUATION, SEE SHEET PV-C.13.13

FOR CONTINUATION, SEE SHEET PV-C.13.19




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
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| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
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| SF SF | SILT FENCE | |
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| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
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| | WATER SURFACE | |
| | TREELINE | |
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KEY PLAN:

REVISIONS:

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| - | - | - |
| - | - | - |
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| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |
| SCALE AT 24" x 36": | AS NOTED |
| SHEET NO: | PV-C.13.14 |
| REV: | 0 |

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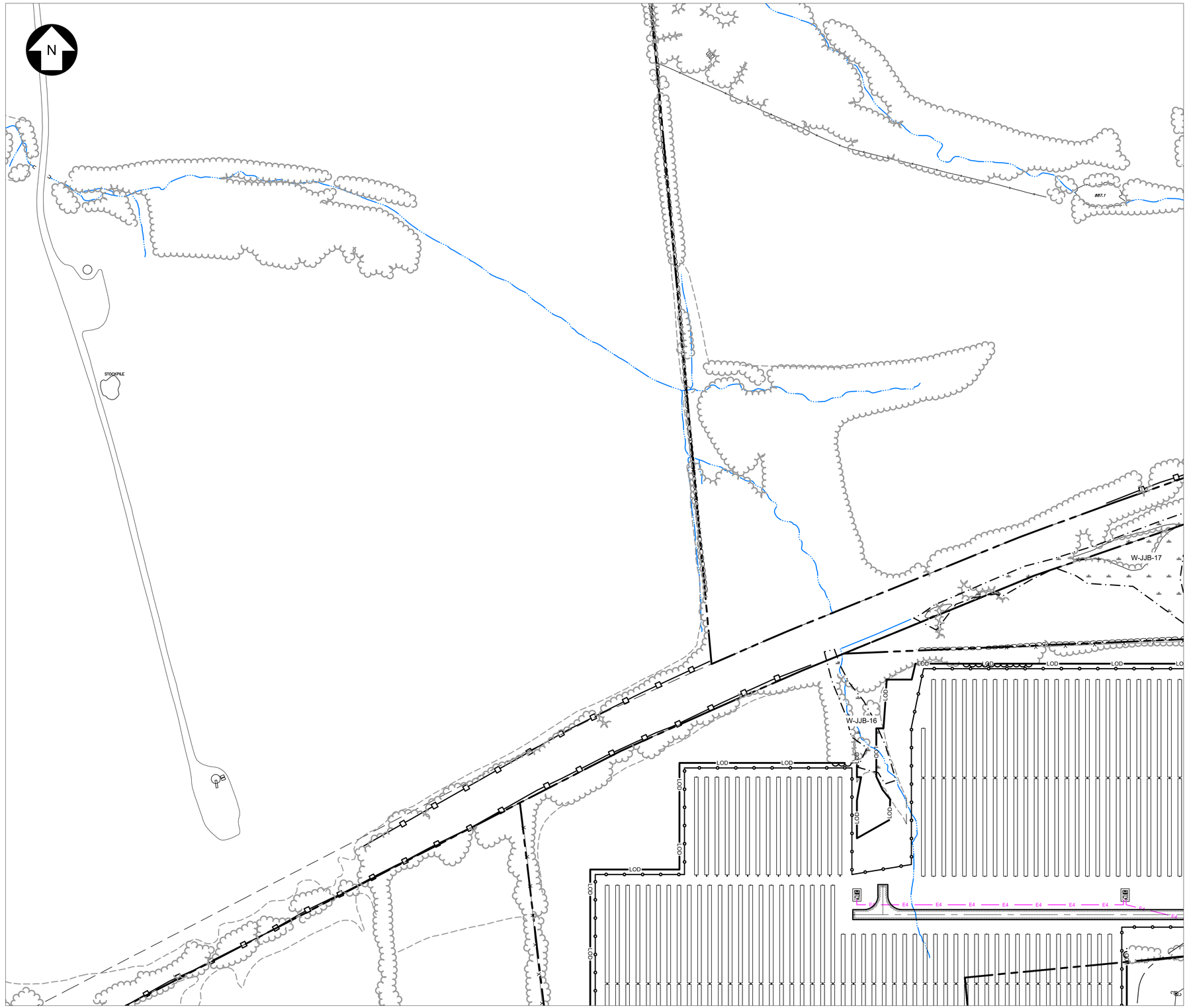
FOR CONTINUATION, SEE SHEET PV-C.13.07

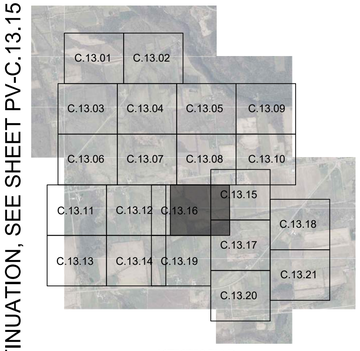
FOR CONTINUATION, SEE SHEET PV-C.13.08

FOR CONTINUATION, SEE SHEET PV-C.13.12




FOR CONTINUATION, SEE SHEET PV-C.13.19

FOR CONTINUATION, SEE SHEET PV-C.13.15




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
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ENLARGED LANDSCAPE PLAN

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SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.16

REV: 0

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FOR CONTINUATION, SEE SHEET PV-C.13.15

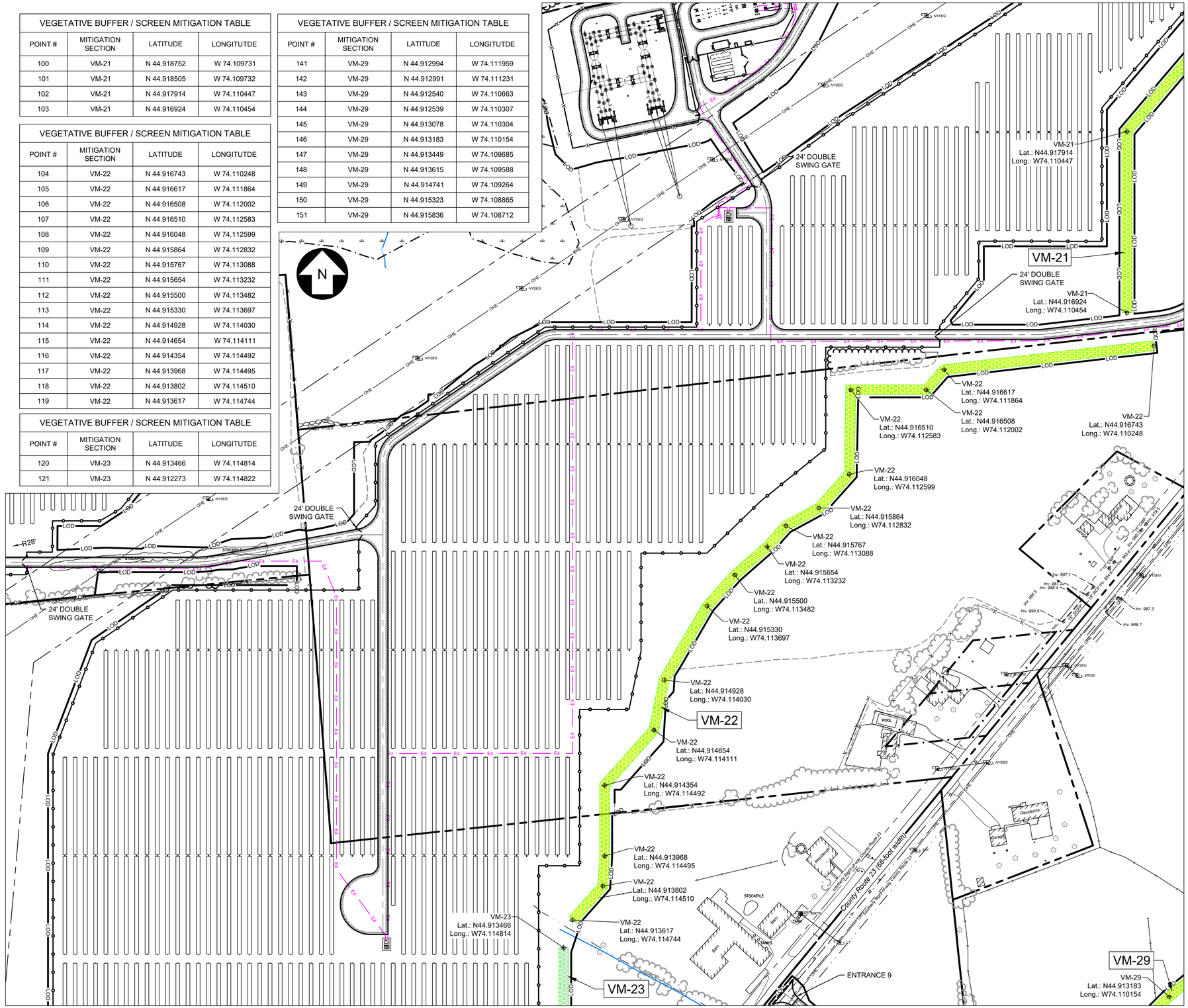
FOR CONTINUATION, SEE SHEET PV-C.13.16

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 100 | VM-21 | N 44.918752 | W 74.109731 |
| 101 | VM-21 | N 44.918505 | W 74.109732 |
| 102 | VM-21 | N 44.917914 | W 74.110447 |
| 103 | VM-21 | N 44.916924 | W 74.110454 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 104 | VM-22 | N 44.916743 | W 74.110248 |
| 105 | VM-22 | N 44.916617 | W 74.111864 |
| 106 | VM-22 | N 44.916508 | W 74.112002 |
| 107 | VM-22 | N 44.916510 | W 74.112583 |
| 108 | VM-22 | N 44.916048 | W 74.112599 |
| 109 | VM-22 | N 44.915864 | W 74.112832 |
| 110 | VM-22 | N 44.915767 | W 74.113088 |
| 111 | VM-22 | N 44.915654 | W 74.113232 |
| 112 | VM-22 | N 44.915500 | W 74.113482 |
| 113 | VM-22 | N 44.915330 | W 74.113697 |
| 114 | VM-22 | N 44.914928 | W 74.114030 |
| 115 | VM-22 | N 44.914654 | W 74.114111 |
| 116 | VM-22 | N 44.914354 | W 74.114492 |
| 117 | VM-22 | N 44.913968 | W 74.114495 |
| 118 | VM-22 | N 44.913802 | W 74.114510 |
| 119 | VM-22 | N 44.913617 | W 74.114744 |

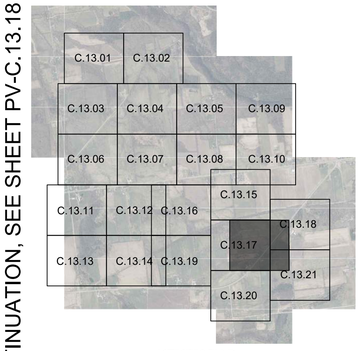
| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 120 | VM-23 | N 44.913466 | W 74.114814 |
| 121 | VM-23 | N 44.912273 | W 74.114822 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 141 | VM-29 | N 44.912994 | W 74.111959 |
| 142 | VM-29 | N 44.912991 | W 74.111231 |
| 143 | VM-29 | N 44.912540 | W 74.110663 |
| 144 | VM-29 | N 44.912539 | W 74.110307 |
| 145 | VM-29 | N 44.913078 | W 74.110304 |
| 146 | VM-29 | N 44.913183 | W 74.110154 |
| 147 | VM-29 | N 44.913449 | W 74.109685 |
| 148 | VM-29 | N 44.913615 | W 74.109588 |
| 149 | VM-29 | N 44.914741 | W 74.109264 |
| 150 | VM-29 | N 44.915323 | W 74.108865 |
| 151 | VM-29 | N 44.915836 | W 74.108712 |




FOR CONTINUATION, SEE SHEET PV-C.13.20

FOR CONTINUATION, SEE SHEET PV-C.13.18




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

- REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)
- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · LICENSED PROFESSIONAL ENGINEER · 079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.17

REV: 0

AES Tilelock 22X34_v100310
PLOTTED: 1/19/2022 3:41 PM
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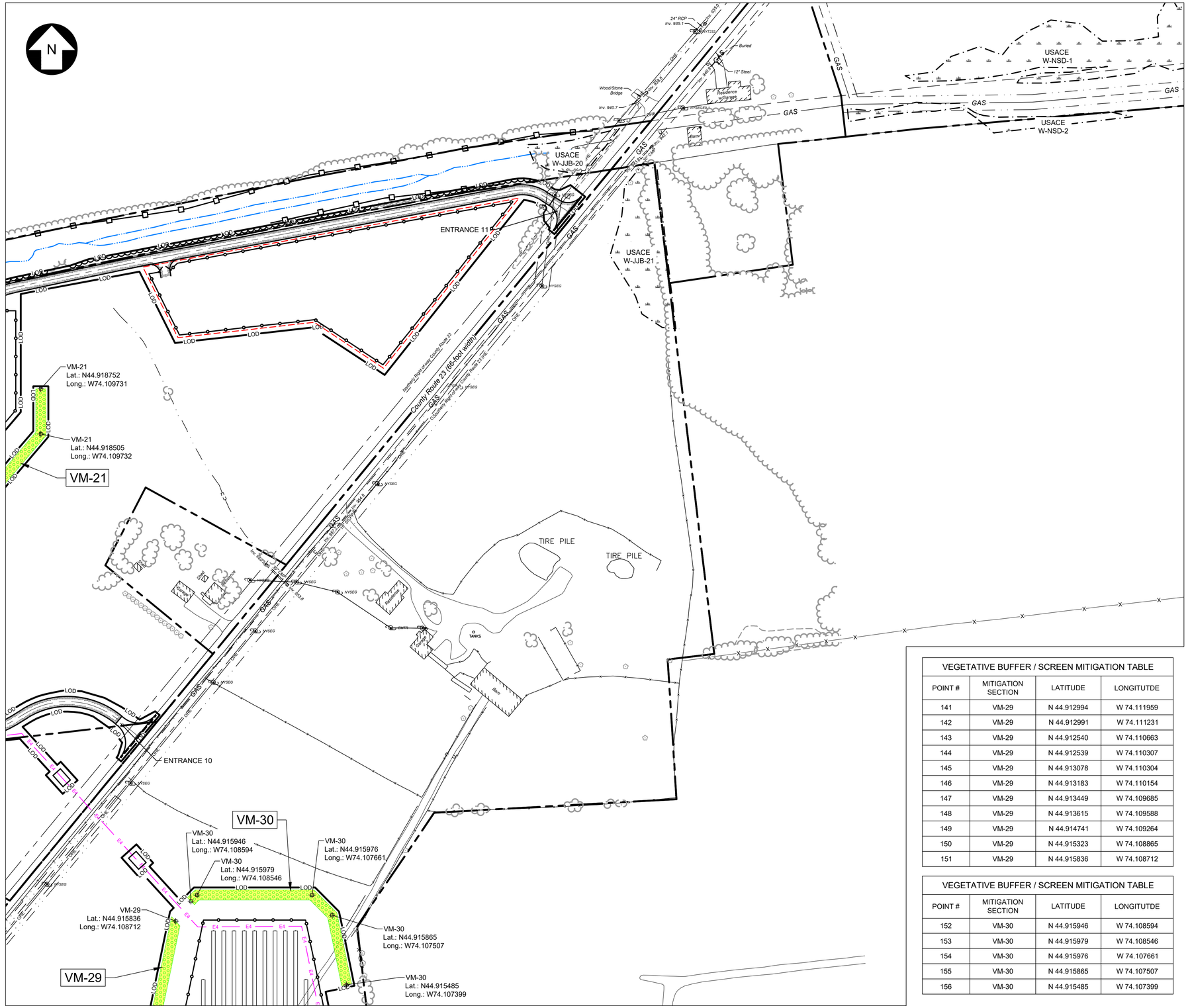
FOR CONTINUATION, SEE SHEET PV-C.13.15




FOR CONTINUATION, SEE SHEET PV-C.13.17

FOR CONTINUATION, SEE SHEET PV-C.13.21

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 141 | VM-29 | N 44.912994 | W 74.111959 |
| 142 | VM-29 | N 44.912991 | W 74.111231 |
| 143 | VM-29 | N 44.912540 | W 74.110663 |
| 144 | VM-29 | N 44.912539 | W 74.110307 |
| 145 | VM-29 | N 44.913078 | W 74.110304 |
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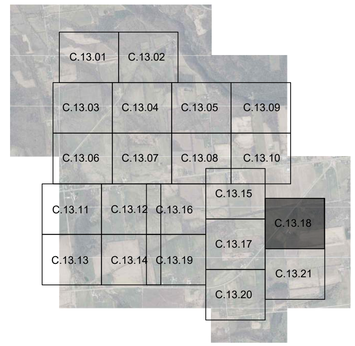
| 148 | VM-29 | N 44.913615 | W 74.109588 |
| 149 | VM-29 | N 44.914741 | W 74.109264 |
| 150 | VM-29 | N 44.915323 | W 74.108865 |
| 151 | VM-29 | N 44.915836 | W 74.108712 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 152 | VM-30 | N 44.915946 | W 74.108594 |
| 153 | VM-30 | N 44.915979 | W 74.108546 |
| 154 | VM-30 | N 44.915976 | W 74.107661 |
| 155 | VM-30 | N 44.915865 | W 74.107507 |
| 156 | VM-30 | N 44.915485 | W 74.107399 |




KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

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PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.18

REV: 0

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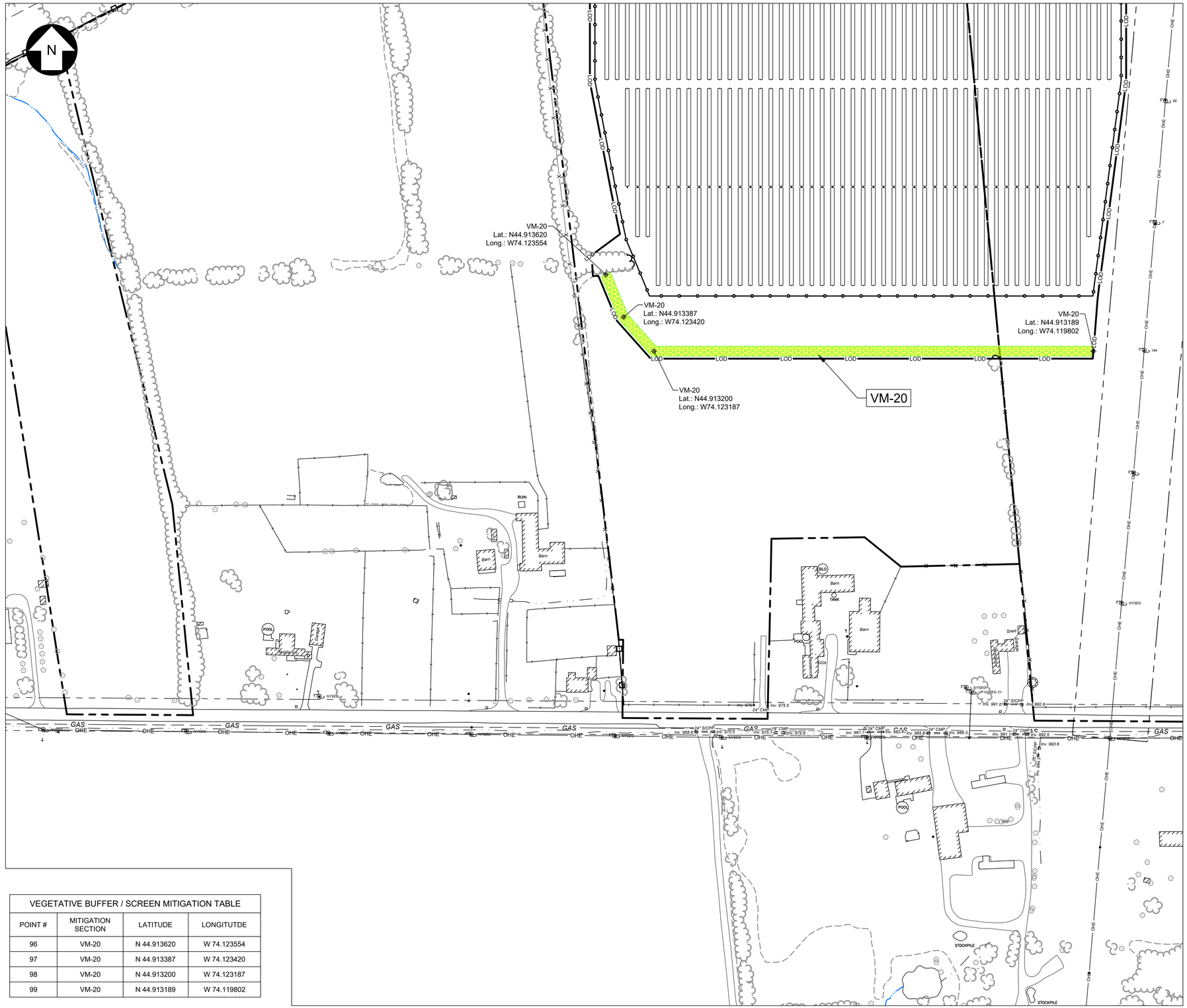
FOR CONTINUATION, SEE SHEET PV-C.13.16

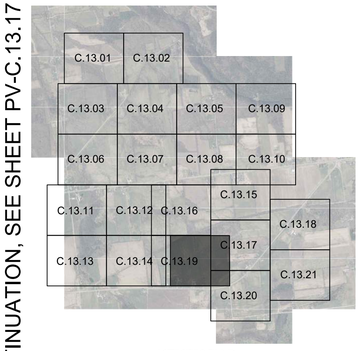
FOR CONTINUATION, SEE SHEET PV-C.13.14

FOR CONTINUATION, SEE SHEET PV-C.13.17

FOR CONTINUATION, SEE SHEET PV-C.13.20




| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 96 | VM-20 | N 44.913620 | W 74.123554 |
| 97 | VM-20 | N 44.913387 | W 74.123420 |
| 98 | VM-20 | N 44.913200 | W 74.123187 |
| 99 | VM-20 | N 44.913189 | W 74.119802 |




KEY MAP
SCALE AT 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

- REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)
- REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
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100 0 100 200 FT
SCALE: 1" = 100'

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PE STAMP:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

----

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.19

REV: 0

PLOTTED: 1/19/2022 3:41 PM
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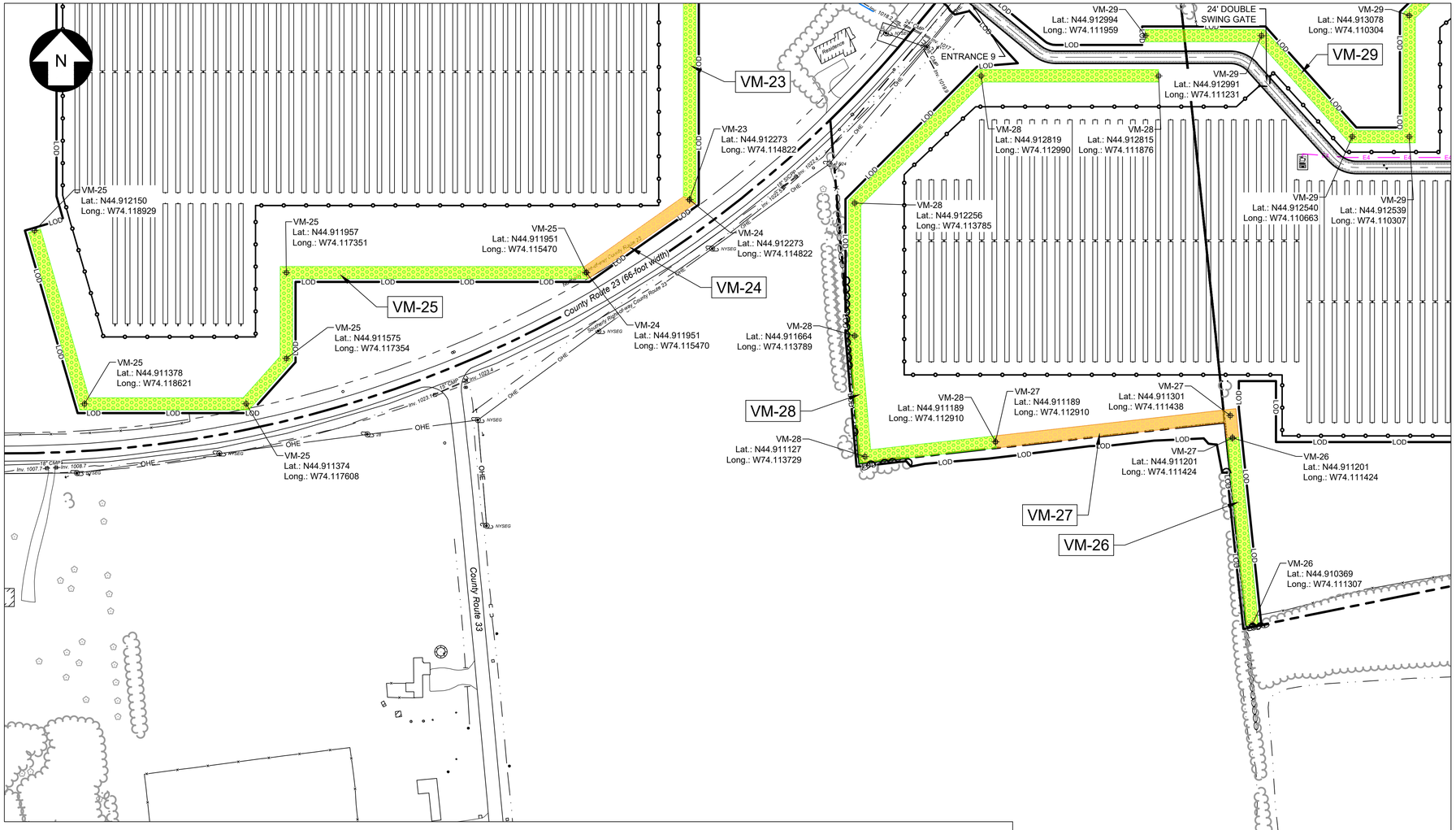
FOR CONTINUATION, SEE SHEET PV-C.13.17




FOR CONTINUATION, SEE SHEET PV-C.13.19

FOR CONTINUATION, SEE SHEET PV-C.13.21

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 120 | VM-23 | N 44.913466 | W 74.114814 |
| 121 | VM-23 | N 44.912273 | W 74.114822 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 122 | VM-24 | N 44.912273 | W 74.114822 |
| 123 | VM-24 | N 44.911951 | W 74.115470 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 124 | VM-25 | N 44.911951 | W 74.115470 |
| 125 | VM-25 | N 44.911957 | W 74.117351 |
| 126 | VM-25 | N 44.911575 | W 74.117354 |
| 127 | VM-25 | N 44.911374 | W 74.117608 |
| 128 | VM-25 | N 44.911378 | W 74.118621 |
| 129 | VM-25 | N 44.912150 | W 74.118929 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 130 | VM-26 | N 44.910369 | W 74.111307 |
| 131 | VM-26 | N 44.911201 | W 74.111424 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 132 | VM-27 | N 44.911201 | W 74.111424 |
| 133 | VM-27 | N 44.911301 | W 74.111438 |
| 134 | VM-27 | N 44.911189 | W 74.112910 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 135 | VM-28 | N 44.911189 | W 74.112910 |
| 136 | VM-28 | N 44.911127 | W 74.113729 |
| 137 | VM-28 | N 44.911664 | W 74.113789 |
| 138 | VM-28 | N 44.912256 | W 74.113785 |
| 139 | VM-28 | N 44.912819 | W 74.112990 |
| 140 | VM-28 | N 44.912815 | W 74.111876 |

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
|---|---|---|---|
| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 141 | VM-29 | N 44.912994 | W 74.111959 |
| 142 | VM-29 | N 44.912991 | W 74.111231 |
| 143 | VM-29 | N 44.912540 | W 74.110663 |
| 144 | VM-29 | N 44.912539 | W 74.110307 |
| 145 | VM-29 | N 44.913078 | W 74.110304 |
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| 147 | VM-29 | N 44.913449 | W 74.109685 |
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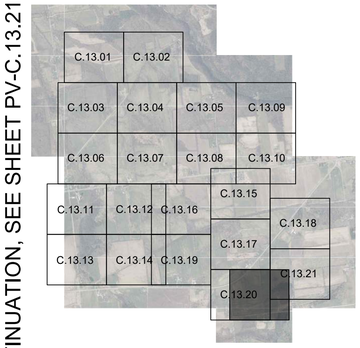


KEY MAP
SCALE AT 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| LOD | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| SF | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X | BARBED WIRE FENCE | X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Dig Safely. New York Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:

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TOWNS OF BURKE AND CHATEAUGAY, NY

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ENLARGED LANDSCAPE PLAN

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| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

AS NOTED

SHEET NO: PV-C.13.20 REV: 0

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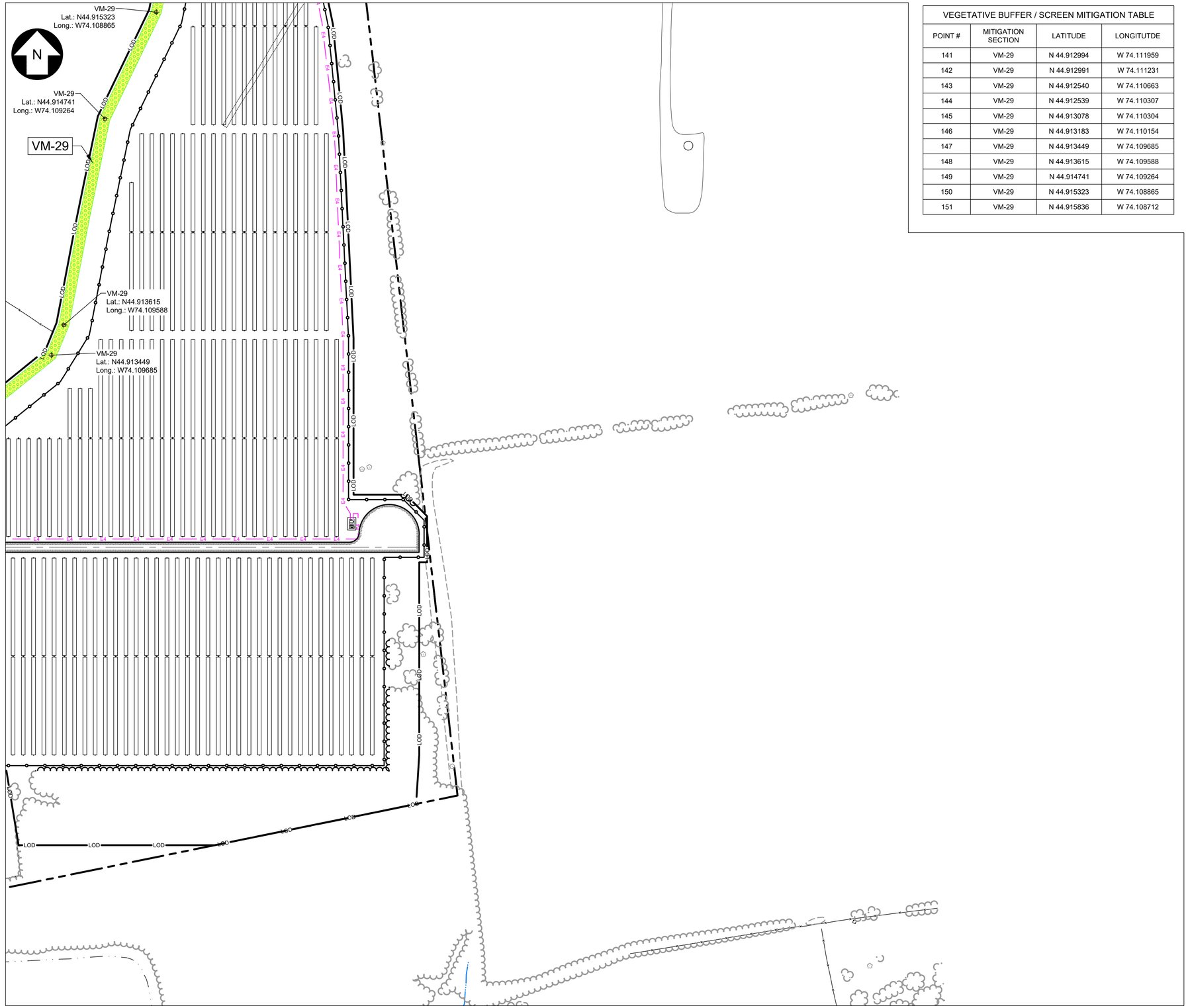
FOR CONTINUATION, SEE SHEET PV-C.13.18

FOR CONTINUATION, SEE SHEET PV-C.13.17




FOR CONTINUATION, SEE SHEET PV-C.13.20

| VEGETATIVE BUFFER / SCREEN MITIGATION TABLE | | | |
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| POINT # | MITIGATION SECTION | LATITUDE | LONGITUTDE |
| 141 | VM-29 | N 44.912994 | W 74.111959 |
| 142 | VM-29 | N 44.912991 | W 74.111231 |
| 143 | VM-29 | N 44.912540 | W 74.110663 |
| 144 | VM-29 | N 44.912539 | W 74.110307 |
| 145 | VM-29 | N 44.913078 | W 74.110304 |
| 146 | VM-29 | N 44.913183 | W 74.110154 |
| 147 | VM-29 | N 44.913449 | W 74.109685 |
| 148 | VM-29 | N 44.913615 | W 74.109588 |
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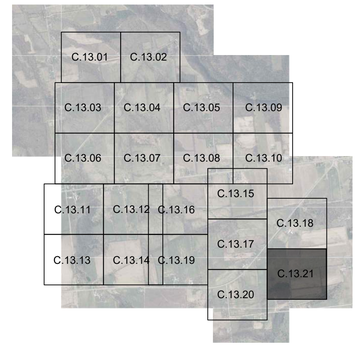


KEY MAP
SCALE: 1" = 3000'

## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | LOD |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| X X | BARBED WIRE FENCE | X X |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | WETLAND | |
| | STREAM | |
| | WATER SURFACE | |
| | TREELINE | |
| | BRUSH | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | VALVE | |
| | CULVERT | |
| | WETLAND / STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | E1 |
| | RIGHT OF WAY | |
| | PAVED ROAD | |
| | NON LEASE LINE | |
| | DRIVEWAY | |
| | HORIZONTAL DIRECTIONAL DRILL | |

## LANDSCAPE LEGEND

REPRESENTATIVE PLANTING TEMPLATE 1 (TYPICAL)

REPRESENTATIVE PLANTING TEMPLATE 2 (ALTERNATIVE)

Call 811 before you dig

PRELIMINARY
NOT FOR CONSTRUCTION

100 0 100 200 FT
SCALE: 1" = 100'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T. BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
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| - | - | - |
| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ENLARGED LANDSCAPE PLAN

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |
| SCALE AT 24" x 36": | AS NOTED |
| SHEET NO: | PV-C.13.21 |
| REV: | 0 |

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# GENERAL LANDSCAPE AND SEEDING NOTES

1. THE LANDSCAPE PLAN AND DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE LAYOUT PLAN, GRADING PLAN AND/OR UTILITIES PLAN FOR ALL OTHER INFORMATION.

2. THE CONTRACTOR SHALL MONITOR AND GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR TWO (2) YEARS AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE OF THE PROJECT BY THE OWNER. THE CONTRACTOR WILL BE QUALIFIED PER STATED REGULATIONS 900-6.4(I)(3) THE PERMITEE WILL RETAIN A QUALIFIED ARCHITECT, ARBORIST, OR ECOLOGIST TO INSPECT SCREEN PLANTINGS FOR TWO YEARS, CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE INVASIVE SPECIES MONITORING, REMOVAL, AND SUPPLEMENTATION. MONITORING OF THE PROJECT SITE SHALL OCCUR IN THE SPRING AND THE FALL TO DETERMINE THE PRESENCE OF INVASIVE SPECIES. SHOULD ANY INVASIVE SPECIES BE IDENTIFIED WITHIN THE PROJECT SITE, THE INVASIVE SPECIES SHALL BE REMOVED ACCORDING TO METHODS MOST LIKELY TO BE EFFECTIVE IN CONTROLLING THAT SPECIES AND SUPPLEMENTING ITS REPLACEMENT WITH APPROPRIATE VEGETATION AND SEED MIX IDENTIFIED (AND APPROVED) ON THIS PLAN AND/OR AN APPROVED EQUAL. ADDITIONAL MAINTENANCE RESPONSIBILITIES INCLUDE: APPROVED CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING OF TREE STRAP GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING, DURING THE CONTRACTOR'S GUARANTEE AND MONITORING TIME PERIOD, AND SHALL CONTINUE FOR THE DURATION OF SOLAR ARRAY USE BY THE OWNER/OPERATOR AFTER FINAL ACCEPTANCE. WATERING OF THE LANDSCAPE BUFFER AREAS SHALL BE IMPLEMENTED BY THE USE OF A WATERING TRUCK.

3. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, APPROVED SEEDING MIX, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWING(S) AND LISTED IN THE PLANT SCHEDULE(S) AND/OR SEEDING TABLE(S). IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND/OR SEEDING TABLE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER QUANTITY SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF (2) TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER, CERTIFIED LANDSCAPE INSPECTOR, LANDSCAPE ARCHITECT, OR LANDSCAPE CONTRACTOR.

4. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. PRIOR TO PLANTING THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, LANDSCAPE ARCHITECT, OR LANDSCAPE CONTRACTOR SHALL APPROVE THE FIELD LOCATIONS OR ADJUSTMENTS OF THE PLANT MATERIAL.

5. ALL SHRUB MASSING SHALL BE MULCHED TO A DEPTH OF 2" AND SHREDDED HARDWOOD BARK MULCH SHALL BE USED FOR SHRUB MASSING AREAS IMMEDIATELY AFTER INSTALLATION OF THE PLANT MATERIAL HAS OCCURRED. THE CONTRACTOR'S OBLIGATION TO MULCH ANY/ALL PROPOSED PLANT MATERIAL IS SOLELY AT THE TIME OF PLANTING ONLY PER THE TREE AND SHRUB PLANTING DETAILS.

6. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER, CERTIFIED LANDSCAPE ARCHITECT, LANDSCAPE INSPECTOR, CONTRACTOR, OR LANDSCAPE CONTRACTOR. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, LANDSCAPE ARCHITECT, OR LANDSCAPE CONTRACTOR. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED AS PER THE DETAIL. SEE LANDSCAPING PLAN(S) FOR PLANTING DETAILS.

7. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE LAYOUT, GRADING AND/OR UTILITY PLANS FOR STORM, SANITARY, GAS, ELECTRIC, TELEPHONE AND WATER LINES. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.

8. LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SUBGRADE, AND BLASTED ROCK SHALL BE REMOVED TO A DEPTH OF 2' OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH MODERATELY COMPACTED CLEAN FILL (AS DEFINED IN THE 94-C REGULATIONS) FREE FROM STONES AND RUBBISH 1" OR GREATER IN DIAMETER AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED UNLESS RECOMMENDED OTHERWISE BY SOIL ANALYSIS.

   PLANTING SOIL MIXTURE:
   2 PARTS PEAT MOSS
   5 PARTS TOPSOIL
   MYCORHIZA INOCULANT - "TRANSPLANT 1-STEP" AS MANUFACTURED BY ROOTS, INC. OR APPROVED EQUAL. USE PER MANUFACTURER'S RECOMMENDATIONS FOR TREES AND SHRUBS. FERTILIZER/LIME APPLY AS RECOMMENDED BY SOIL ANAYLSIS

   - TREES, AND SHRUBS: TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCATION OF THE PROJECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY AND WELL-DEVELOPED ROOT SYSTEMS. ALL TREES SHALL HAVE STRAIGHT SINGLE TRUNKS WITH THEIR MAIN LEADER INTACT UNLESS OTHERWISE STATED. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, LANDSCAPE ARCHITECT, OR LANDSCAPE CONTRACTOR SHALL ONLY PERMIT SUBSTITUTIONS UPON WRITTEN APPROVAL. THEIR SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED ON THE DRAWINGS MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL TREES AND SHRUBS SHALL BE MULCHED IN ACCORDANCE WITH THE RESPECTIVE PLANTING DETAIL(S) PROVIDED IN THE LANDSCAPING PLAN.
   - ALL PRUNING SHALL CONFORM TO THE TREE CARE INDUSTRY ASSOCIATION (TCIA) ANSI A300 (PART 1) - 2017 PRUNING STANDARDS. PRUNING STANDARDS SHALL RECOGNIZE BUT, ARE NOT LIMITED TO, THE FOLLOWING PRUNING OBJECTIVES: MANAGE RISK, MANAGE HEALTH, DEVELOP STRUCTURE, PROVIDE CLEARANCE, MANAGE SIZE OR SHAPE, IMPROVE AESTHETICS, MANAGE PRODUCTION OF FRUIT, FLOWERS, OR OTHER PRODUCTS, AND/OR MANAGE WILDLIFE HABITAT. DEVELOPING STRUCTURE SHALL IMPROVE BRANCH AND TRUNK ARCHITECTURE, PROMOTE OR SUBORDINATE CERTAIN LEADERS, STEMS, OR BRANCHES; PROMOTE DESIRABLE BRANCH SPACING; PROMOTE OR DISCOURAGE GROWTH IN A PARTICULAR DIRECTION (DIRECTIONAL PRUNING); MINIMIZE FUTURE INTERFERENCE WITH TRAFFIC, LINES OF SIGHT, INFRASTRUCTURE, OR OTHER PLANTS; RESTORE PLANTS FOLLOWING DAMAGE; AND/OR REJUVENATE SHRUBS. PROVIDING CLEARANCE SHALL ENSURE SAFE AND RELIABLE UTILITY SERVICES; MINIMIZE CURRENT INTERFERENCE WITH TRAFFIC, LINES OF SITE, INFRASTRUCTURE, OR OTHER PLANTS; RAISE CROWN(S) FOR MOVEMENT OF TRAFFIC OR LIGHT PENETRATION; ENSURE LINES OF SIGHT OR DESIRED VIEWS; PROVIDE ACCESS TO SITES, BUILDINGS, OR OTHER STRUCTURES; AND/OR COMPLY WITH REGULATIONS.
   - TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES. CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE PH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, LANDSCAPE ARCHITECT, OR LANDSCAPE CONTRACTOR FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST.
   - NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS/GRASSES AND PLANTINGS FROM ESTABLISHING PROPERLY.
   - IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL APPLICABLE STANDARDS, REQUIREMENTS, AND/OR REGULATIONS.
   - ALL SLOPES GREATER THAN 3:1 RECEIVING A WILDFLOWER, WETLAND, AND/OR GRASS SEEDING MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET.
   - ALL WILDFLOWERS AND GRASSES SOWED SHALL BE ALLOWED TO GROW TO THEIR NATURALLY OCCURRING HEIGHTS WHENEVER POSSIBLE. NATIVE WILDFLOWERS AND/OR GRASSES CAN BE MOWED/MAINTAINED (WITHIN ACCEPTABLE AREAS IDENTIFIED AND/OR APPROVED BY APPROPRIATE REGULATORY AGENCIES) AS OFTEN AS NEEDED TO KEEP THE VEGETATION AT A DESIRED AND/OR MANAGEABLE/MANICURED HEIGHT.

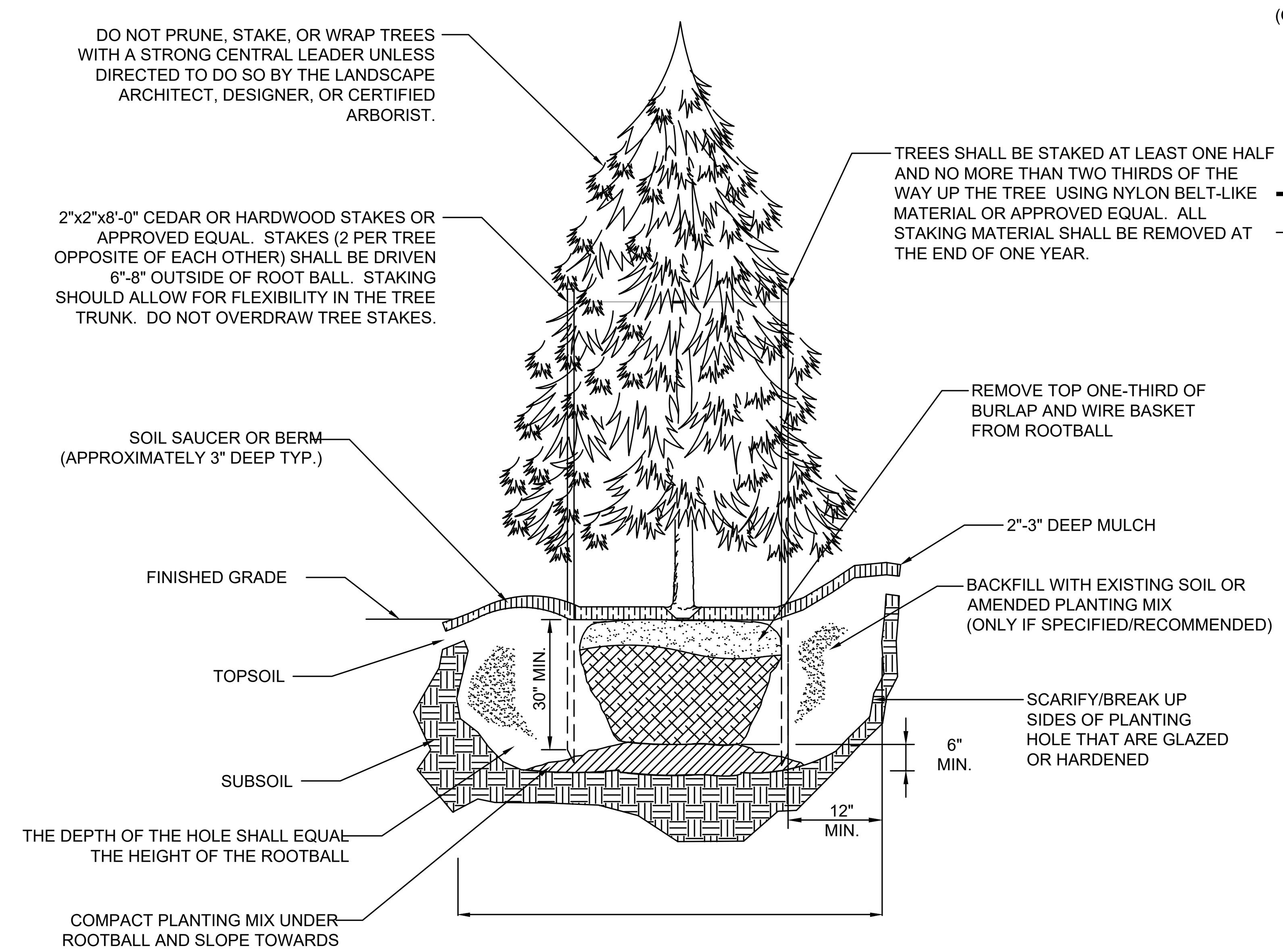
9. ALL PLANT MATERIAL SHALL CONFORM TO THE PLAN SIZE SPECIFICATIONS AS ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK LATEST EDITION.

## FLOWERING HERBACEOUS LAYER/NORTHEAST NATIVE POLLINATOR SEED MIXES

| NORTHEAST NATIVE WILDFLOWER & GRASS MIX | | | | |
|---|---|---|---|---|
| BOTANICAL NAME | COMMON NAME | MIX CONCENTRATION | RATE (LBS/ACRE) | RATE (LBS/1000 FT²) |
| SCHIZACHYRIUM SCOPARIUM | LITTLE BLUESTEM | 40% | 20 | 0.46 |
| BOUTELOUA CURTIPENDULA | SIDEOATS GRAMA | 23.40% | | |
| COSMOS BIPINNATUS | COSMOS | 7.30% | | |
| COREOPSIS LANCEOLATA | LANCELEAF COREOPSIS | 3.50% | | |
| ECHINACEA PURPUREA | PURPLE CONEFLOWER | 3.50% | | |
| ELYMUS VIRGINICUS | VIRGINIA WILDRYE | 3% | | |
| SORGHASTRUM NUTANS | INDIANGRASS | 2.50% | | |
| LUPINUS POLYPHYLLUS | BIGLEAF LUPINE | 2.20% | | |
| CHAMAECRISTA FASCICULATA | PARTRIDGE PEA | 2% | | |
| DELPHINIUM AJACIS | ROCKET LARKSPUR | 2% | | |
| RUDBECKIA HIRTA | BLACKEYED SUSAN | 2% | | |
| GAILLARDIA ARISTATA | BLANKET FLOWER | 1.50% | | |
| SENNA HEBECARPA | WILD SENNA | 1% | | |
| PENSTEMON DIGITALIS | TALL WHITE BEARDTONGUE | 1% | | |
| PAPAVER RHOEAS | SHIRLEY MIX (CORN POPPY, SHIRLEY MIX) | 0.60% | | |
| ANDROPOGON GERARDII | BIG BLUESTEM | 0.50% | | |
| ELYMUS CANADENSIS | CANADA WILDRYE | 0.50% | | |
| COREOPSIS TINCTORIA | PLAINS COREOPSIS | 0.50% | | |
| LIATRIS SPICATA | BLAZING STAR | 0.40% | | |
| ASCLEPIAS SYRIACA | COMMON MILKWEED | 0.40% | | |
| ASCLEPIAS TUBEROSA | BUTTERFLY MILKWEED | 0.40% | | |
| ZIZIA AUREA | GOLDEN ALEXANDERS | 0.30% | | |
| ASCLEPIAS INCARNATA | SWAMP MILKWEED | 0.30% | | |
| MONARDA FISTULOSA | WILD BERGAMONT | 0.20% | | |
| PENSTEMON LAEVIGATUS | APPALACHIAN BEARDTONGUE | 0.20% | | |
| SENNA MARILANDICA | MARYLAND SENNA | 0.20% | | |
| SOLIDAGO NEMORALIS | GRAY GOLDENROD | 0.10% | | |
| TRADESCANTIA OHIENSIS | OHIO SPIDERWORT | 0.10% | | |
| ASTER LAEVIS | SMOOTH BLUE ASTER | 0.10% | | |
| ASTER NOVAE-ANGLIAE | NEW ENGLAND ASTER | 0.10% | | |
| ASTER PRENANTHOIDES | ZIGZAG ASTER | 0.10% | | |
| HELIOPSIS HELIANTHOIDES | OXEYE SUNFLOWER | 0.10% | | |

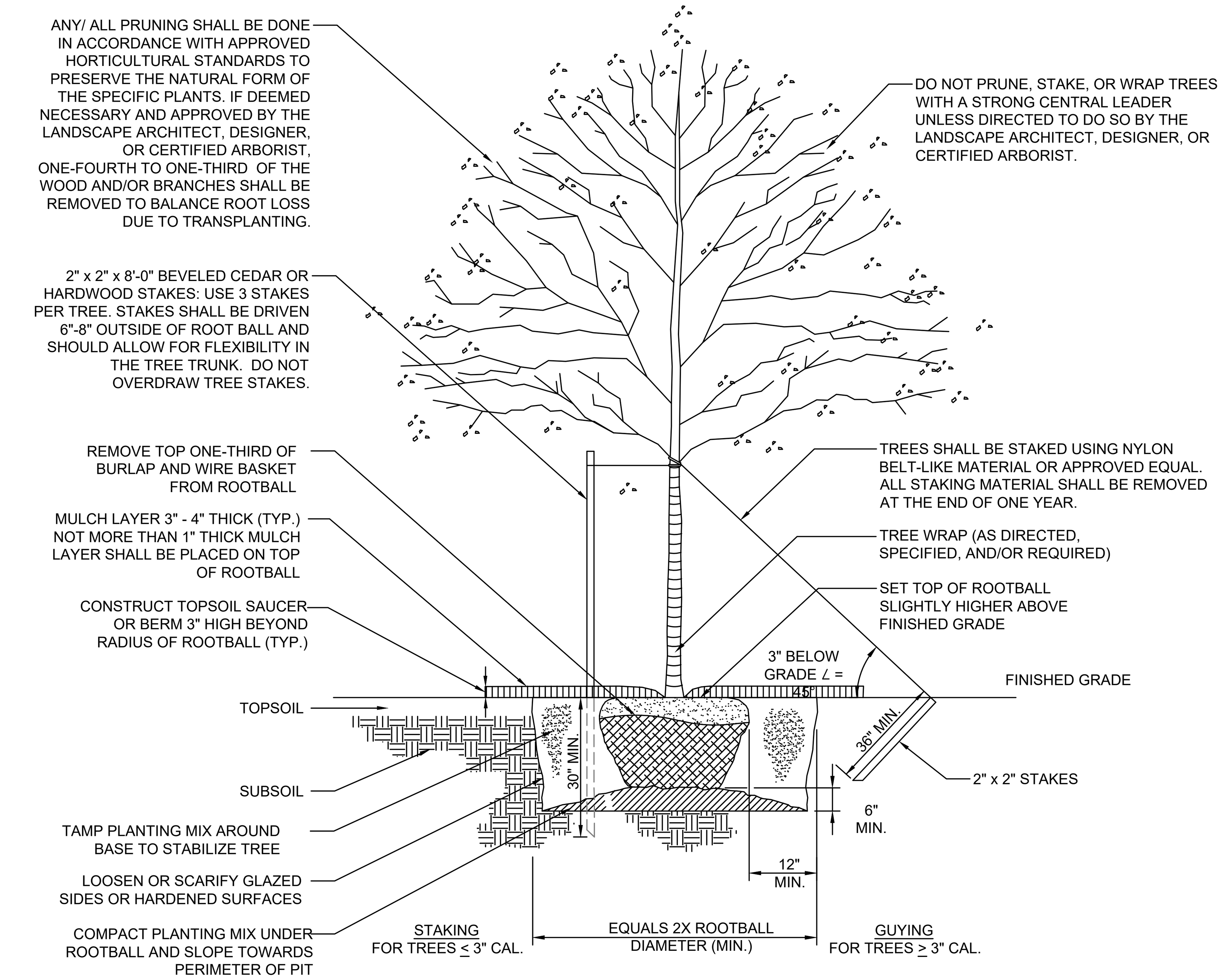
NOTE:

NATIVE POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE A EXCELLENT WILDLIFE FOOD AND SHELTER THAT WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE NATIVE WILDFLOWERS AND GRASSES IN THIS MIX PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL. POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE NECTAR AND FOOD SOURCES FOR A VARIETY OF POLLINATORS AND LARVA. THESE MIXES ARE COMPRISED OF A FAIRLY EVEN MIX OF NATIVE AND/OR INDIGENOUS WILDFLOWERS AND GRASSES.



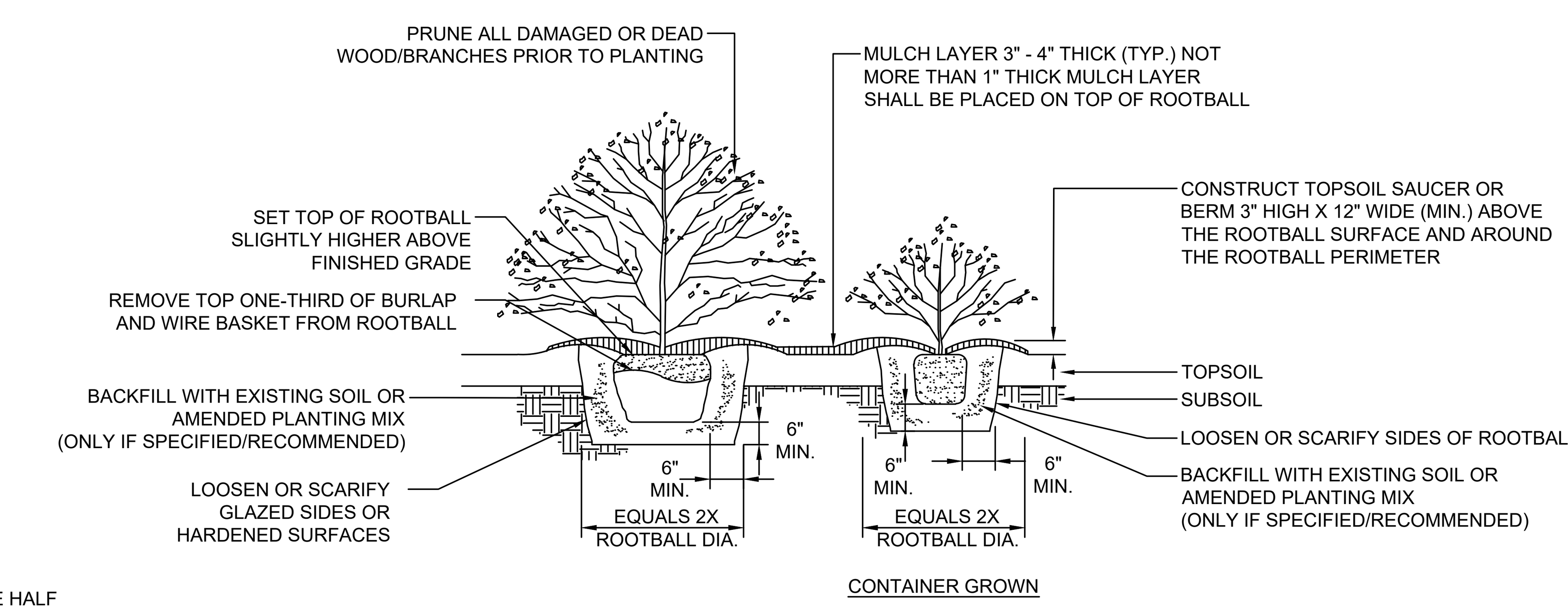

EVERGREEN TREE PLANTING DETAIL

N.T.S.




NATIVE/DECIDUOUS TREE PLANTING DETAIL

N.T.S.




SHRUB PLANTING DETAIL

N.T.S.

## SOLAR FARM GRASS SEED MIXES

| NATIVE/NATURALIZED SOLAR FARM SEED MIX | | | | |
|---|---|---|---|---|
| BOTANICAL NAME | COMMON NAME | MIX CONCENTRATION | RATE (LBS/ACRE) | RATE (LBS/1000 FT²) |
| FESTUCA RUBRA | CREEPING RED FESCUE | 34% | 262 | 6 |
| FESTUCA OVINA | SHEEP FESCUE | 33% | | |
| FESTUCA BREVIPILA 'BEACON' | HARD FESCUE 'BEACON' | 10% | | |
| FESTUCA OVINA VAR. DURIUSCULA 'RHINO' | HARD FESCUE 'RHINO' | 5% | | |
| FESTUCA OVINA VAR. GLAUCA (F. ARVERNENSIS) (F. GLAUCA), 'BLUE RAY' | BLUE FESCUE 'BLUE RAY' | 5% | | |
| POA PRATENSIS 'ARGYLE' | KENTUCKY BLUEGRASS 'ARGYLE' | 5% | | |
| POA PRATENSIS 'SHAMROCK' | KENTUCKY BLUEGRASS 'SHAMROCK' | 5% | | |
| AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE | AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE | 3% | | |

NOTE:

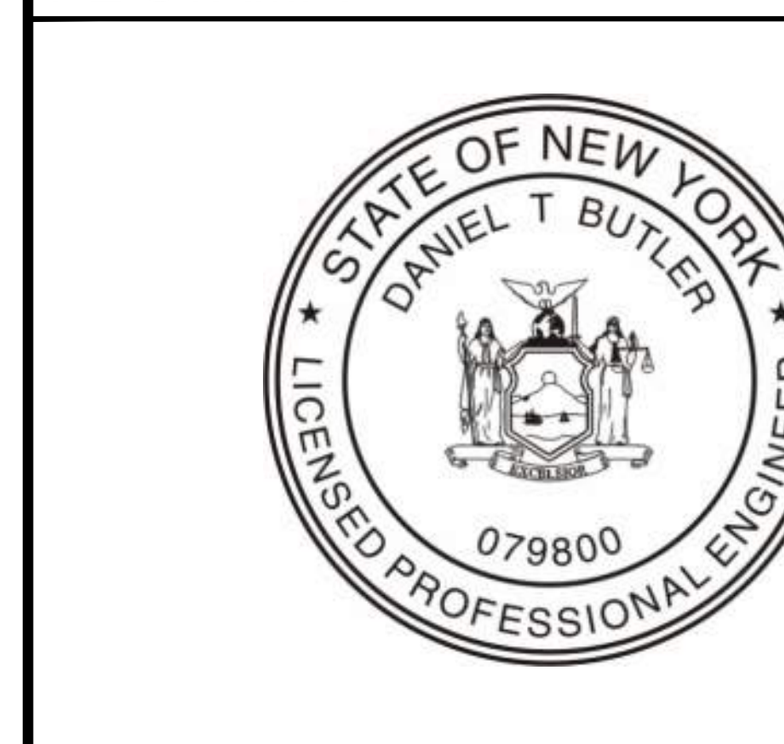
GRASS SEED MIXES ARE COMPRISED OF GRASSES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND/OR CONSIDERED FAVORABLE FOR WILDLIFE HABITAT AND SUSTAINABLE GROWTH. ADDITIONALLY, THE SOLAR FARM SEED MIX WAS DEVELOPED ESPECIALLY FOR NATIVE GRASS PLANTINGS AROUND SOLAR ARRAY FIELDS AND SHALL BE UTILIZED ACCORDINGLY. THESE GRASSES WILL MATURE OUT TO A HEIGHT OF APPROXIMATELY 2 TO 2 1/2 FEET HIGH. THERE ARE NO WILDFLOWER OR POLLINATOR SEED SPECIES CONTAINED IN THESE NATIVE GRASS SEED MIXES.

PRELIMINARY
NOT FOR CONSTRUCTION


aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330


PE STAMP:




KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
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| - | - | - |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

LANDSCAPE DETAILS AND NOTES

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36": NONE

SHEET NO: PV-C.14.01 REV: 0


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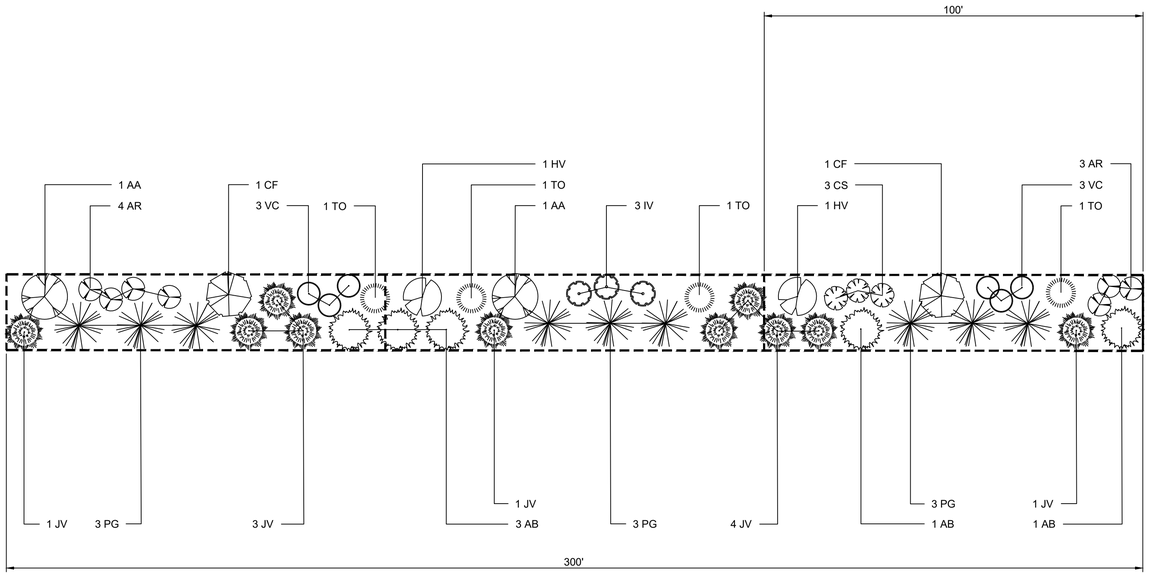



**PLANTING TEMPLATE TYPE 1**

# LEGEND

VISUAL MITIGATION PLANTING TEMPLATE - TYPE 1

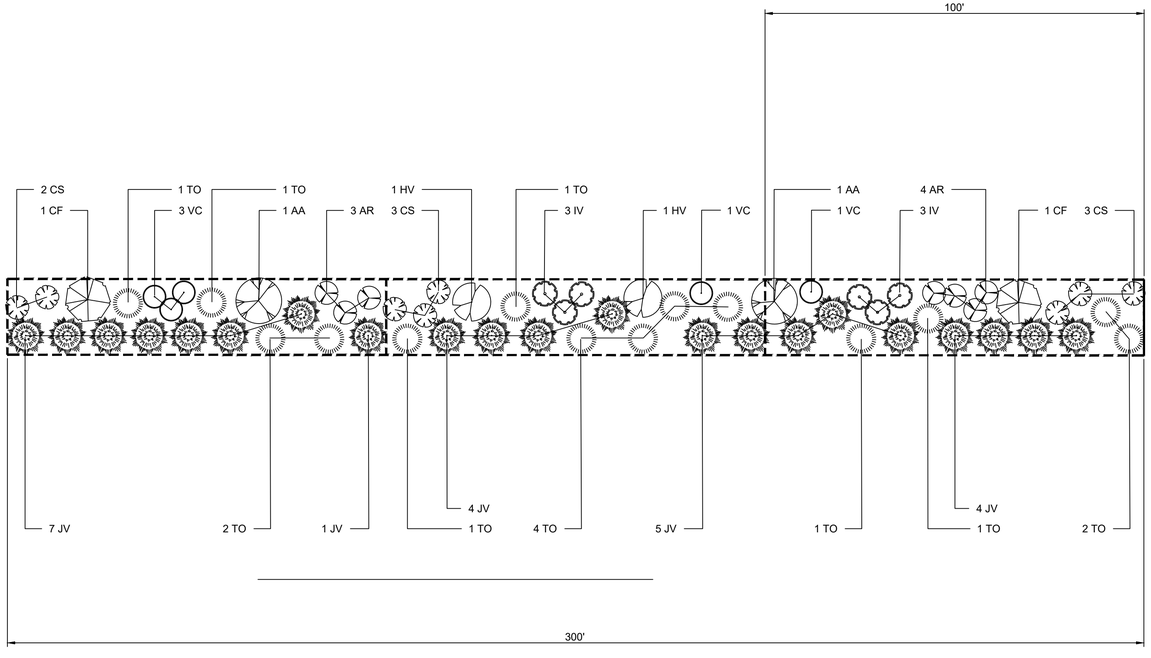
LANDSCAPE PLANTING SCHEDULE (TYPICAL VISUAL BUFFER/SCREENING EFFORT)

## DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 2 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 5 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 2 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 10 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 9 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 4 | 5'-6' HT. | B&B | 40'-50' HT. |

## SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 7 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |




**ALTERNATIVE PLANTING TEMPLATE TYPE 2**

# LEGEND

VISUAL MITIGATION PLANTING TEMPLATE - TYPE 2

LANDSCAPE PLANTING SCHEDULE (ALTERNATIVE VISUAL BUFFER/SCREENING EFFORT)

## DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 2 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 2 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 21 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 14 | 5'-6' HT. | B&B | 40'-50' HT. |

## SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 7 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 8 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 5 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T. BUTLER · LICENSED PROFESSIONAL ENGINEER · 079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

LANDSCAPE DETAILS AND NOTES

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

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# TYPE 1 - PLANTING SCHEDULES

## LEGEND - VM1

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 435 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 8 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 15 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 12 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 6 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 3 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM4

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 955 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 7 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 18 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 6 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 31 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 30 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 12 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 25 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 9 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 6 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 18 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM6

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 790 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 6 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 13 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 5 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 26 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 24 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 11 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 18 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 6 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 5 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 15 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM7

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 470 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 8 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 15 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 14 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 6 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 3 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM8

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 355 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 3 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 5 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 2 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 11 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 12 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 4 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM10

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 1,845 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 13 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 30 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 12 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 61 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 56 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 24 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 46 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 18 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 12 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 18 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 36 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM11

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 1,050 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 8 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 18 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 7 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 35 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 31 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 14 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 25 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 9 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 7 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 21 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM12

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 1,530 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 11 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 25 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 10 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 51 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 46 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 20 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 37 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 15 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 10 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 15 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 30 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM13

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 435 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 8 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 15 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 12 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 6 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 3 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM14

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 170 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 2 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 3 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 1 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 5 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 5 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 2 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 4 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 0 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 1 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
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| 0 | 01/19/2022 | DESIGN DRAWINGS |
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PROJECT TITLE: BROOKSIDE SOLAR PROJECT

PROJECT LOCATION: TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION: LANDSCAPE DETAILS AND NOTES

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |
| SCALE AT 24" x 36": | NONE |
| SHEET NO: | PV-C.14.03 |
| REV: | 0 |

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# TYPE 1 - PLANTING SCHEDULES

## LEGEND - VM15

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 605 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 10 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 4 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 21 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 18 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 8 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 14 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 6 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 4 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 12 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM16

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 345 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 3 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 5 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 2 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 11 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 10 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 4 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM17

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 565 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 7 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 4 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 19 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 17 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 7 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 6 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 4 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM20

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 1,060 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 8 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 18 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 7 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 35 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 32 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 12 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 25 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 9 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 7 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 21 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM21

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 735 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 6 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 13 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 5 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 25 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 21 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 10 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 18 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 6 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 5 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 15 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM22

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 1,895 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 13 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 31 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 13 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 64 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 57 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 24 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 46 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 18 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 12 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 18 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 39 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM23

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 435 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 8 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 15 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 12 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 6 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 3 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM25

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE

TOTAL MITIGATION LENGTH = 1,280 LF

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 9 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 20 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 9 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 44 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 39 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 16 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 32 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 12 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 8 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 12 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 25 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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PRELIMINARY

NOT FOR CONSTRUCTION

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2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T BUTLER · 079800 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

LANDSCAPE DETAILS AND NOTES

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

NONE

SHEET NO: PV-C.14.04

REV: 0

# TYPE 1 - PLANTING SCHEDULES

## LEGEND - VM26

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 305 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 2 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 5 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 2 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 11 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 9 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 4 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 7 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM28

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 1,205 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 8 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 20 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 8 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 41 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 36 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 16 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 28 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 12 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 8 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 12 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 24 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM29

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 1,820 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 13 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 30 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 12 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 61 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 55 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 24 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 42 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 18 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 12 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 18 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 36 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM30

PLANTING TEMPLATE TYPE 1

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 445 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 8 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 15 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 13 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 6 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 11 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 3 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 3 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 9 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

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Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · DANIEL T. BUTLER · LICENSED PROFESSIONAL ENGINEER · 079800

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

LANDSCAPE DETAILS AND NOTES

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| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

SCALE AT 24" x 36":

NONE

SHEET NO: PV-C.14.05 | REV: 0

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# TYPE 2 - PLANTING SCHEDULES

## LEGEND - VM2

PLANTING TEMPLATE TYPE 2

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 700 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 5 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 5 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 50 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 32 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 17 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 18 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 4 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 12 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 13 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM3

PLANTING TEMPLATE TYPE 2

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 2,485 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 17 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 17 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 175 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 116 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 57 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 66 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 16 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 48 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 43 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM9

PLANTING TEMPLATE TYPE 2

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 3,045 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 20 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 21 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 214 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 141 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 70 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 82 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 20 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 60 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 52 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM19

PLANTING TEMPLATE TYPE 2

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 560 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 4 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 39 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 26 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 14 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 13 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 4 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 12 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 10 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM24

PLANTING TEMPLATE TYPE 2

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 205 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 2 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 1 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 14 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 10 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 5 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 3 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 4 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

## LEGEND - VM27

PLANTING TEMPLATE TYPE 2

LANDSCAPE PLANTING SCHEDULE — TOTAL MITIGATION LENGTH = 420 LF

DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 3 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 3 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 30 | 5'-6' HT. | B&B | 40'-50' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 19 | 5'-6' HT. | B&B | 40'-50' HT. |

SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 10 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 13 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 2 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 6 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 8 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

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(801) 679 - 3500

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

LANDSCAPE DETAILS AND NOTES

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|---|---|
| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

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# OVERALL PLANTING SCHEDULE FOR PROJECT SITE

## LEGEND - OVERALL PLANTING TOTALS

LANDSCAPE PLANTING SCHEDULE — VISUAL MITIGATION PLANTING TEMPLATE TYPES 1 & 2

### DECIDUOUS AND EVERGREEN TREES

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AA | AMELANCHIER ARBOREA DOWNY SHADBUSH | 193 | 6'-8' HT. CLUMP | B&B | 15'-20' HT. |
| AB | ABIES BALSAMEA BALSAM FIR | 314 | 5'-6' HT. | B&B | 40'-60' HT. |
| CF | CORNUS FLORIDA FLOWERING DOGWOOD | 175 | 1" CAL. MIN. | B&B | 15'-25' HT. |
| JV | JUNIPERUS VIRGINIANA EASTERN RED CEDAR | 1,154 | 5'-6' HT. | B&B | 40'-50' HT. |
| PG | PICEA GLAUCA WHITE SPRUCE | 559 | 5'-6' HT. | B&B | 40'-60' HT. |
| TO | THUJA OCCIDENTALIS NORTHERN WHITE CEDAR | 588 | 5'-6' HT. | B&B | 40'-50' HT. |

### SHRUBS

| SYMBOL | BOTANICAL NAME/ COMMON PLANT NAME | QUANTITY | SIZE | ROOT | MATURE HEIGHT |
|---|---|---|---|---|---|
| AR | ARONIA ARBUTIFOLIA RED CHOKEBERRY | 624 | 24"-30" HT. | #3/5 CONT. | 7'-10' HT. |
| CS | CORNUS SERICEA RED TWIG DOGWOOD | 365 | 24"-30" HT. | #3/5 CONT. | 7'-9' HT. |
| HV | HAMAMELIS VIRGINIANA COMMON WITCH HAZEL | 171 | 3'-4' HT. | B&B | 15'-25' HT. |
| IV | ILEX VERTICILLATA COMMON WINTERBERRY | 320 | 24"-30" HT. | #3/5 CONT. | 10'-12' HT. |
| VC | VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY | 500 | 24"-30" HT. | #3/5 CONT. | 6'-12' HT. |

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

LANDSCAPE DETAILS AND NOTES

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| PROJ NUM: | 422299 |
| DES: | M.ROSS |
| DWN: | T.FIEBRANZ |
| CHK: | M.ROSS |
| APV: | - |
| DATE: | 04/02/2021 |

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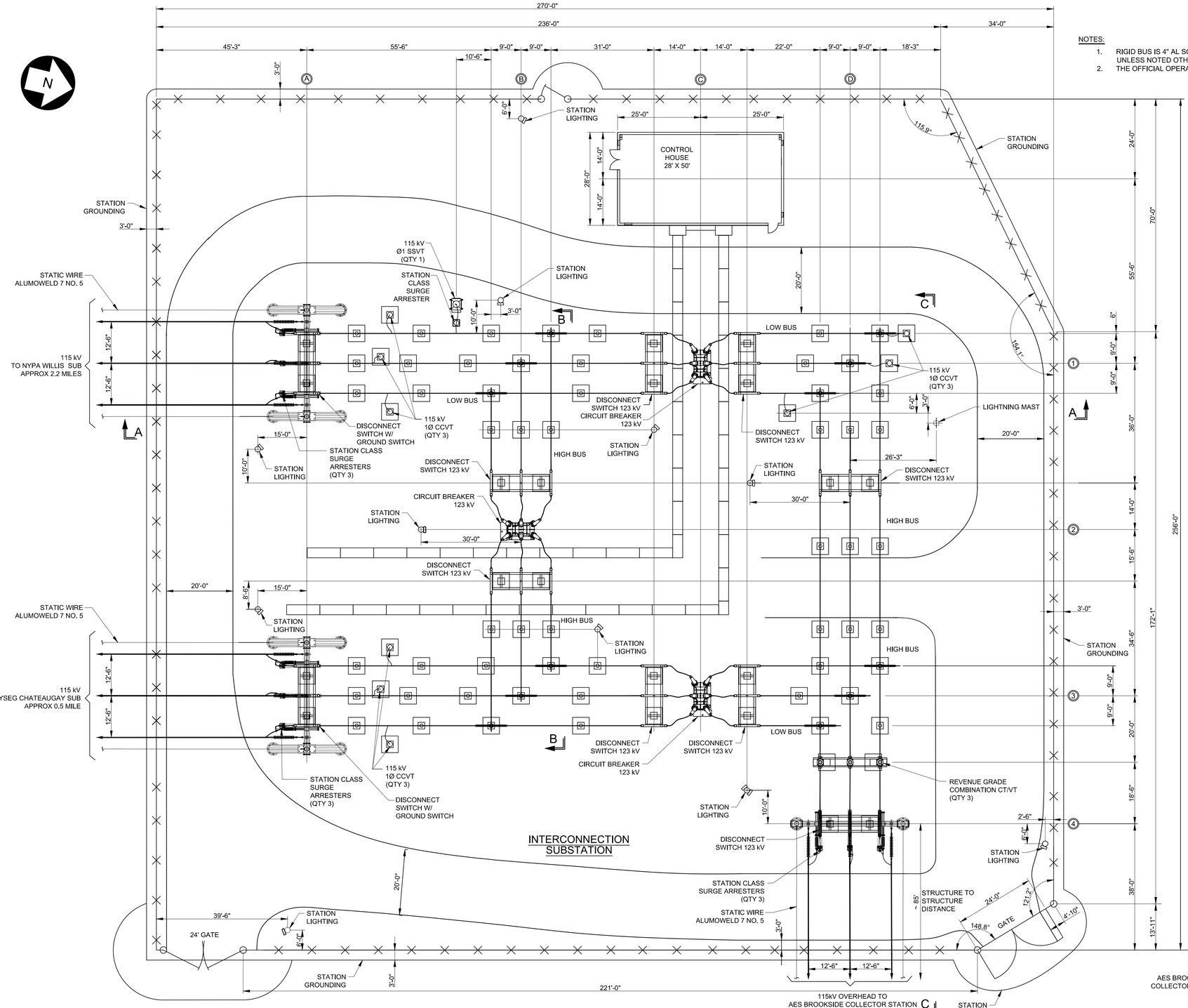
2. THE OFFICIAL OPERATING NUMBERS WILL BE APPROVED BY NYSEG.




GENERAL ARRANGEMENT
PLAN VIEW

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KEY PLAN:

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PROJECT TITLE:

BROOKSIDE SOLAR
POI
SUBSTATION
115KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GENERAL ARRANGEMENT

OVERALL ELECTRICAL PLAN

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|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

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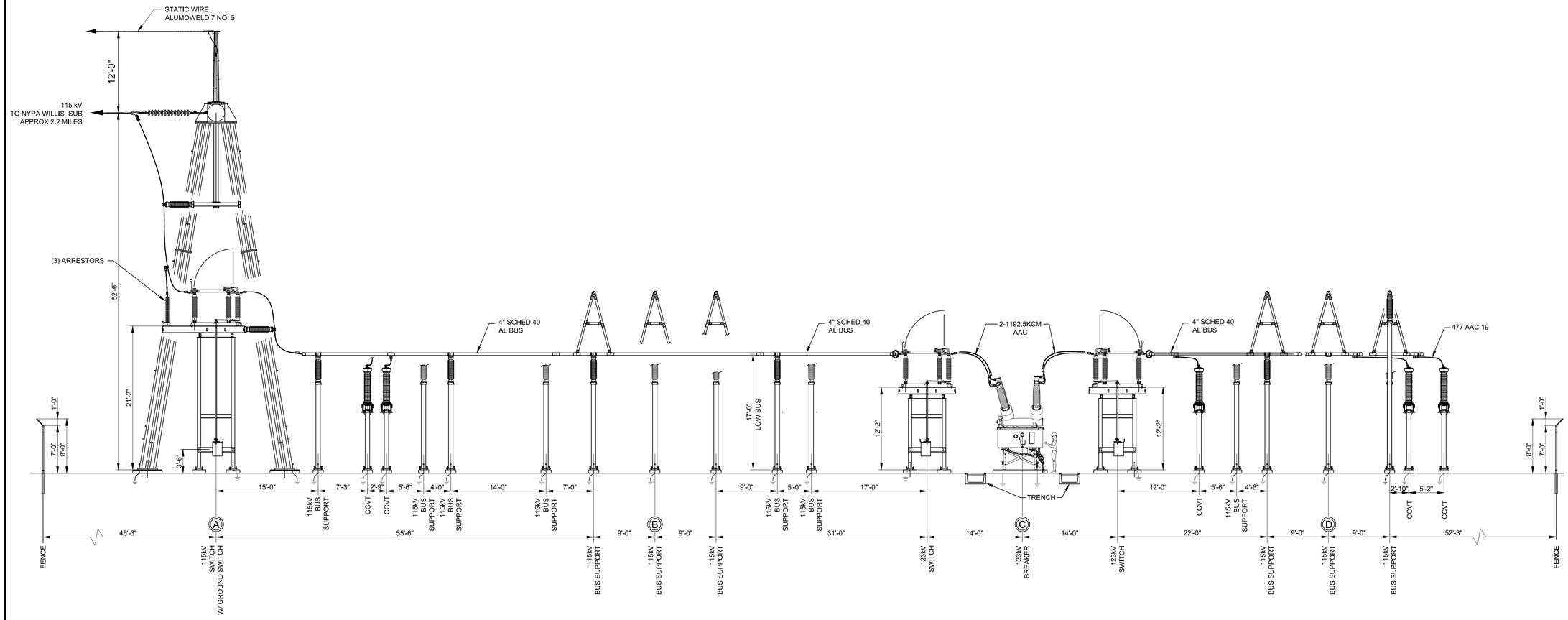


SECTION A-A

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PROJECT TITLE:

BROOKSIDE SOLAR
POI
SUBSTATION
115KV

PROJECT LOCATION:

TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL
EQUIPMENT
ELEVATIONS

SECTION A-A

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| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
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| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

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1/8" = 1'-0"

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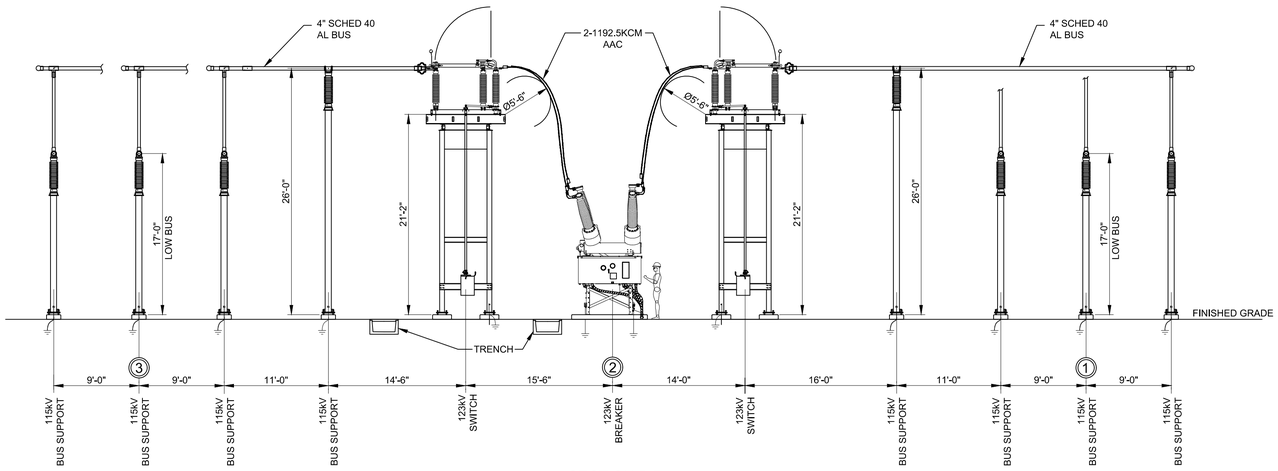


SECTION B-B

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR
POI
SUBSTATION
115KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL EQUIPMENT ELEVATIONS

SECTION B-B

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|---|---|
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| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":
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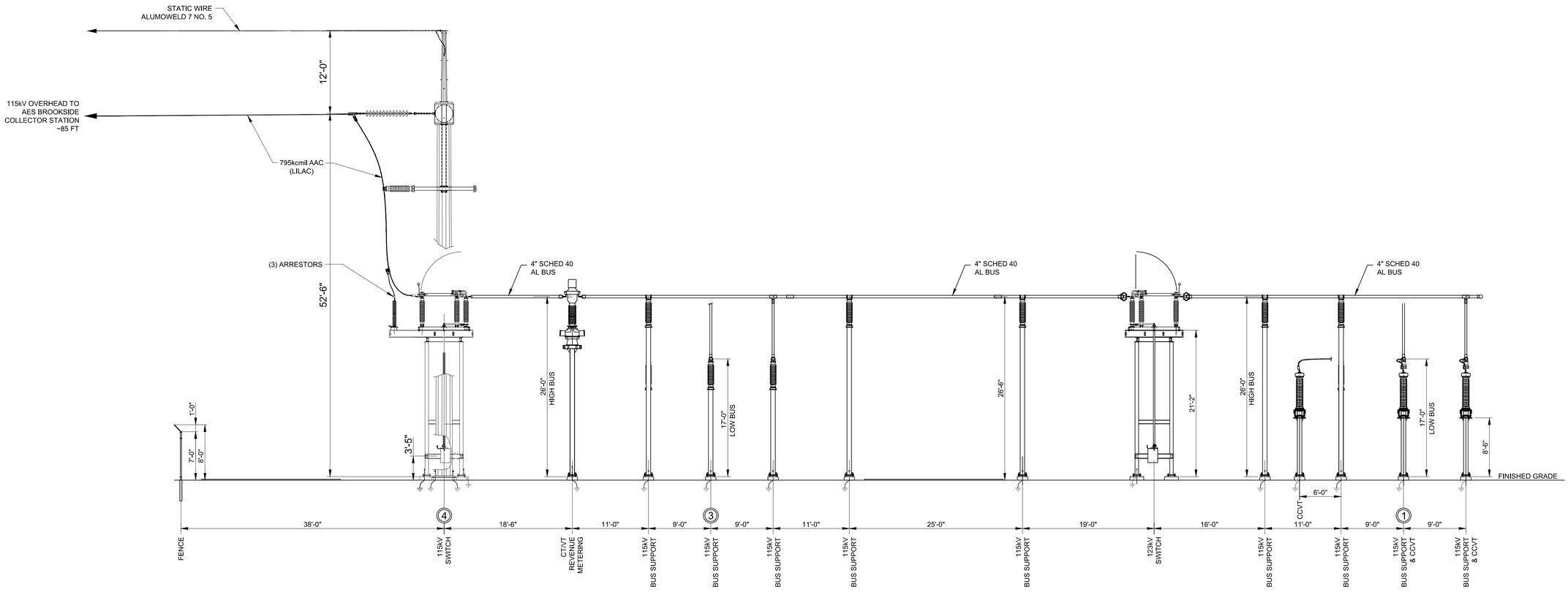
1/8" = 1'-0"

SHEET NO: 422299-0004-001
REV: 0




SECTION C-C

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PROJECT TITLE:

BROOKSIDE SOLAR
POI
SUBSTATION
115KV

PROJECT LOCATION:

TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL
EQUIPMENT
ELEVATIONS

SECTION C-C

| | |
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| DATE: | 04/02/2021 |

SCALE AT 22" x 34":
0 4' 8' 12' 16'
1/8" = 1'-0"

SHEET NO: 422299-0005-001
REV: 0


AES Tilesbock 22X34 v210319
PLOTTED: 1/14/2022 9:13 AM
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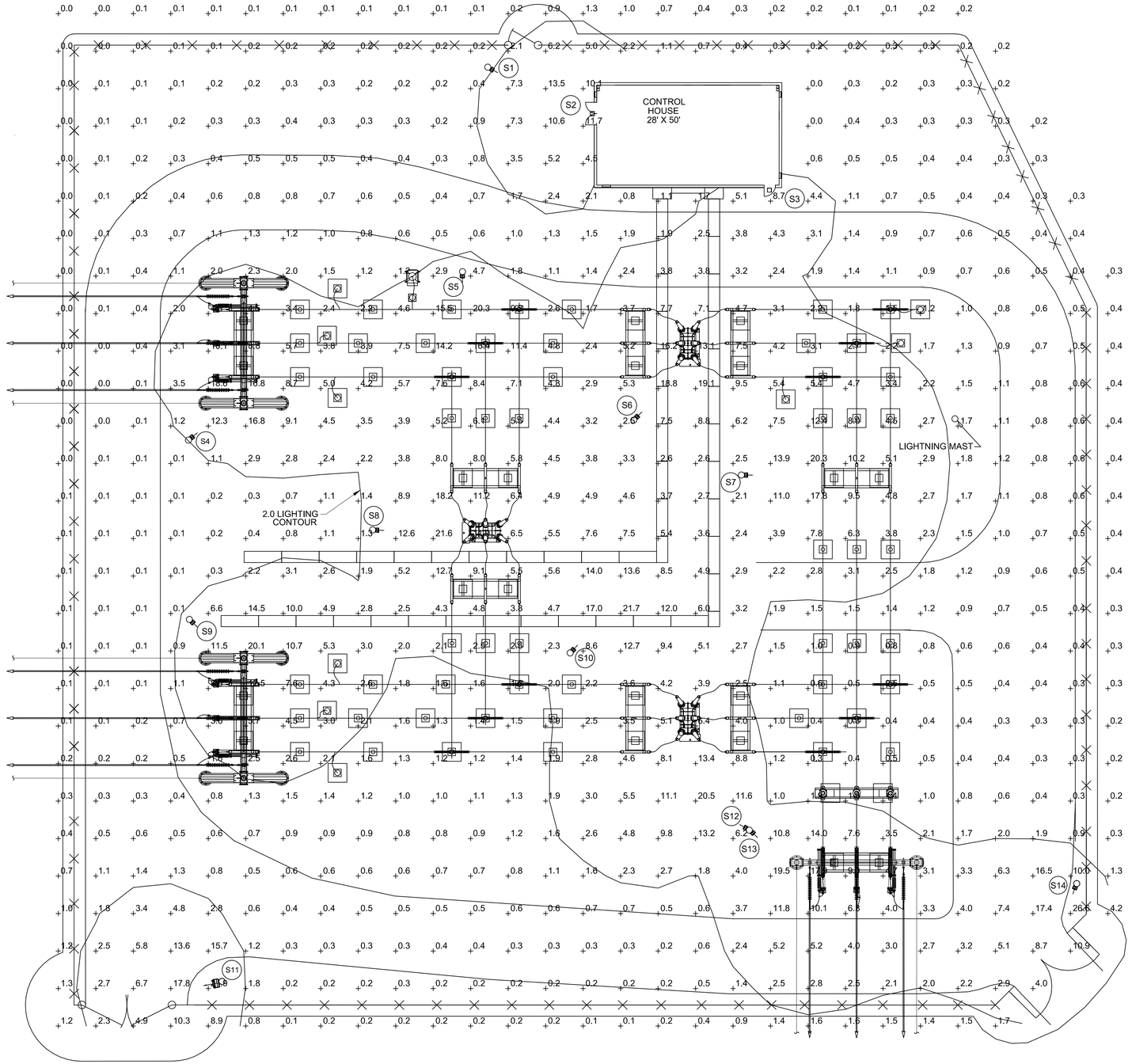
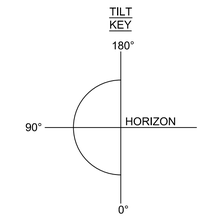
XREFs:




| FIXTURE SCHEDULE | | | | |
|---|---|---|---|---|
| LIGHT NO. | TYPE | TILT ANGLE | WATTAGE | VOLTAGE |
| S1 | A3 | 75° | 150W | 120VAC |
| S2 | A1 | 75° | 25W | 120VAC |
| S3 | A1 | 75° | 25W | 120VAC |
| S4 | A5 | 75° | 297W | 120VAC |
| S5 | A5 | 75° | 297W | 120VAC |
| S6 | A5 | 75° | 297W | 120VAC |
| S7 | A5 | 75° | 297W | 120VAC |
| S8 | A5 | 75° | 297W | 120VAC |
| S9 | A5 | 75° | 297W | 120VAC |
| S10 | A5 | 75° | 297W | 120VAC |
| S11 | A3 | 45° | 150W | 120VAC |
| S12 | A5 | 75° | 297W | 120VAC |
| S13 | A5 | 75° | 297W | 120VAC |
| S14 | A3 | 45° | 150W | 120VAC |

NOTES:

1. STATION LIGHTING IS COMPRISED OF (2) 25W, (3) 150W, AND (9) 297 W, 120V AC LED FLOODLIGHTS.
2. LIGHT FIXTURES TO BE MOUNTED ON INDICATED STRUCTURES 15' ABOVE FINISHED GRADE. THE FIXTURES SHALL BE AIMED AS SHOWN ON THE DRAWING AND HAVE A TILT ANGLE BASED ON THE FIXTURE SCHEDULE.
3. YARD CONTOURS ARE 2.0 FT CANDLES (F.C.) FOR THIS STATION. 2 FT CANDLES IS THE EQUIVALENT OF 22 LUMENS PER SQUARE METER.
4. FLOODLIGHTS INSTALLED WITH TOP AND SIDE VISORS ACHIEVE FULL CUTOFF REQUIREMENT (0 F.C.) ABOVE FIXTURE.

| TABLE 1 - LIGHTING FIXTURE SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FIXTURE | | | | | | | LAMP | PHOTO-ELECTRIC CONTROL |
| TYPE | WATTAGE | LIGHT SOURCE | VOLTAGE | WEIGHT (LBS) | LUMENS | NEMA CLASS | MANUFACTURER (GE) ITEM # | MANUFACTURER ITEM # |
| A1 | 25W | LED | 120V | 9.5 | 2,900 | N/A | GE EVOLVE EWAS011A3730N | N/A |
| A3 | 150W | LED | 120V | 26 | 18,800 | 7X6 | GE EVOLVE EFH101AA76740 W/ TOP & SIDE VISOR TSDKBZ-EFH | N/A |
| A5 | 297W | LED | 120V | 26 | 37,800 | 7X6 | GE EVOLVE EFH101EE76740 W/ TOP & SIDE VISOR TSDKBZ-EFH | N/A |

AVERAGE = 3.0 F.C.
MAX= _ _ _ 26.6 F.C.
MIN = _ _ _ _ 0.0 F.C.

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PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR POI SUBSTATION 115KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GENERAL ARRANGEMENT

LIGHTING PLAN

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/20/2021 |

SCALE AT 22" x 34":
0 8' 16' 24' 32'
1/16" = 1'-0"

SHEET NO: 422299-0006-001
REV: 0


AES Titleblock 22X34 v210319
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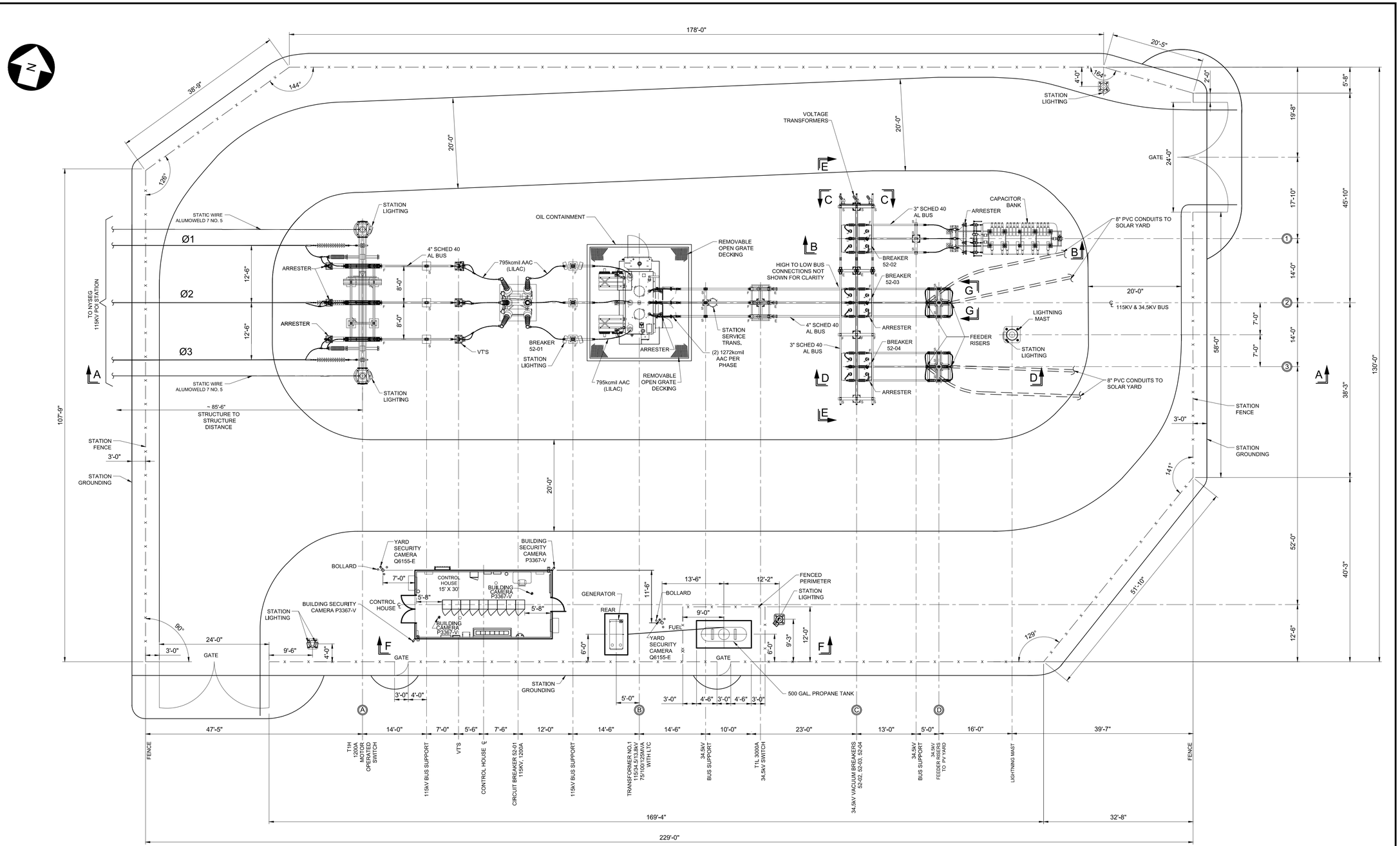
XREFs:

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LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GENERAL ARRANGEMENT

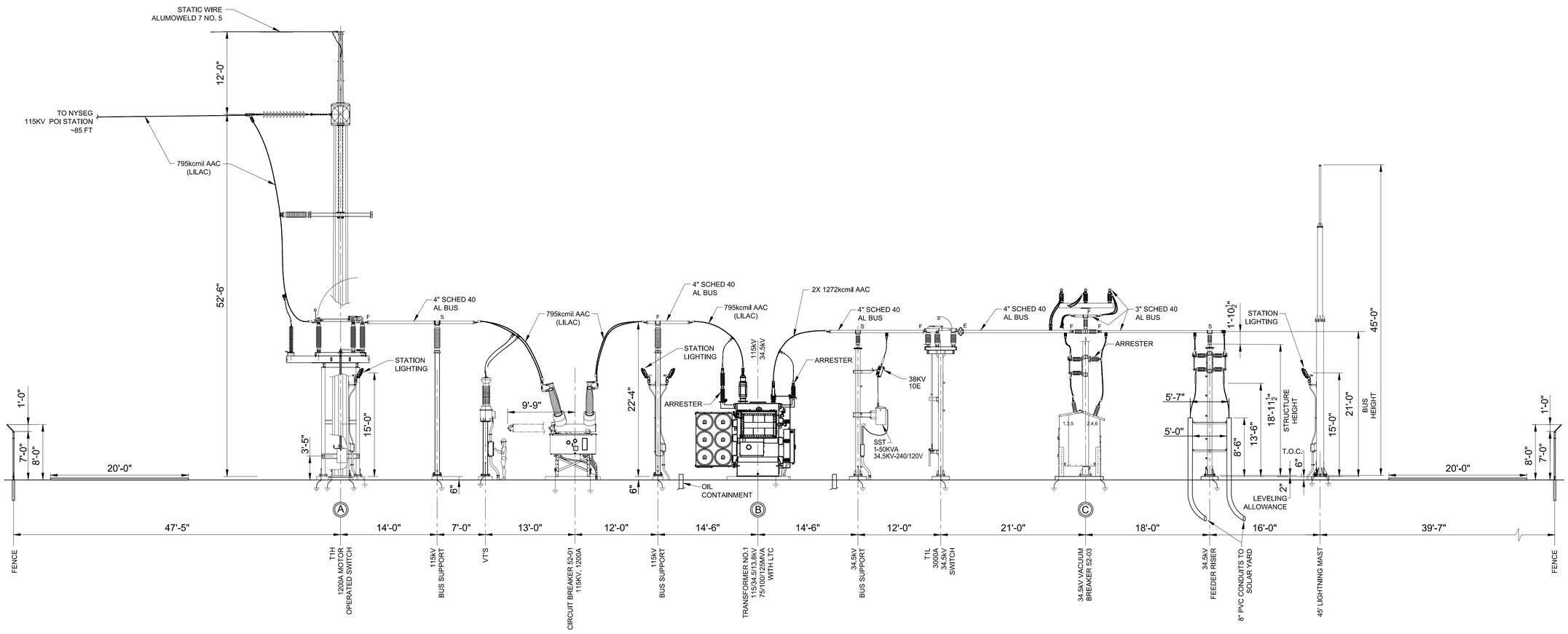
OVERALL ELECTRICAL PLAN

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/21 |

SCALE AT 22" x 34":
0 4' 8' 16' 24'
3/32" = 1'-0"

SHEET NO: HV-P.01.01
REV: 0

AES Tilebox 22X34 -210319




SECTION A-A

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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AMEYS

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CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR
COLLECTION
SUBSTATION
115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL
EQUIPMENT
ELEVATIONS

SECTION A-A

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D.FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":
0 4' 8' 12' 16'
1/8" = 1'-0"

| SHEET NO: | REV: |
|---|---|
| HV-P.02.01 | 0 |

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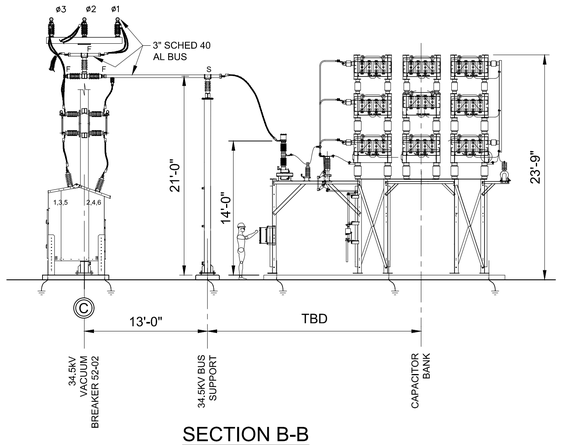
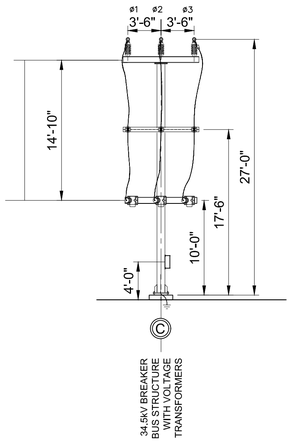
AES Tilelock 22X34 v210319




SECTION B-B

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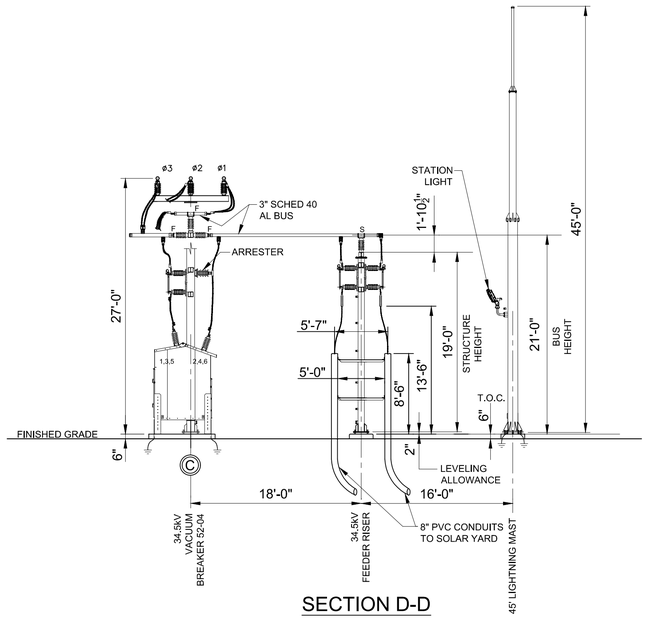


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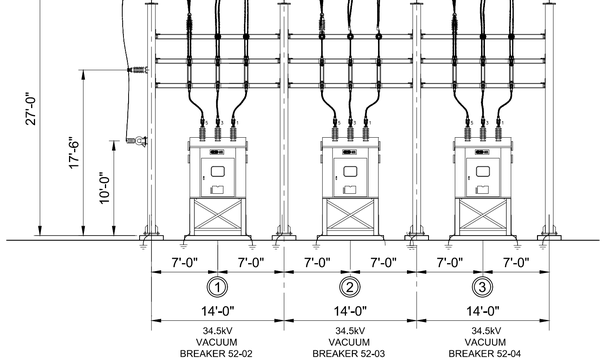


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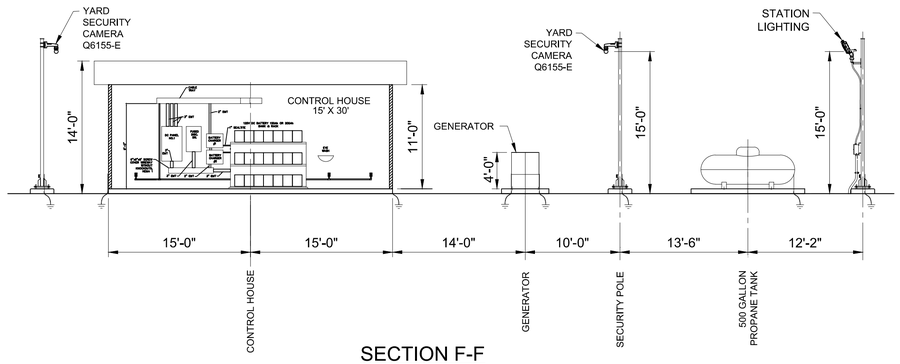
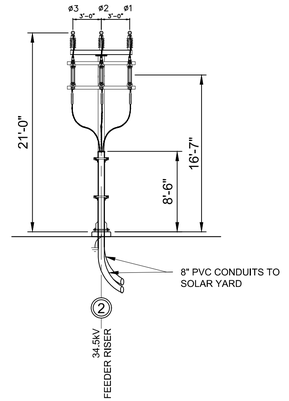



SECTION F-F




SECTION G-G

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:
BROOKSIDE SOLAR
COLLECTION
SUBSTATION
115KV-34.5KV

PROJECT LOCATION:
TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
ELECTRICAL
EQUIPMENT
ELEVATIONS

SECTIONS B-B, C-C
D-D, E-E, F-F, G-G, H-H,
J-J

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":
0 4' 8' 12' 16'
1/8" = 1'-0"

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REV: 0

PLOTTED: 1/11/2022 10:02 AM
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AES Tilebox 22X34 v210319

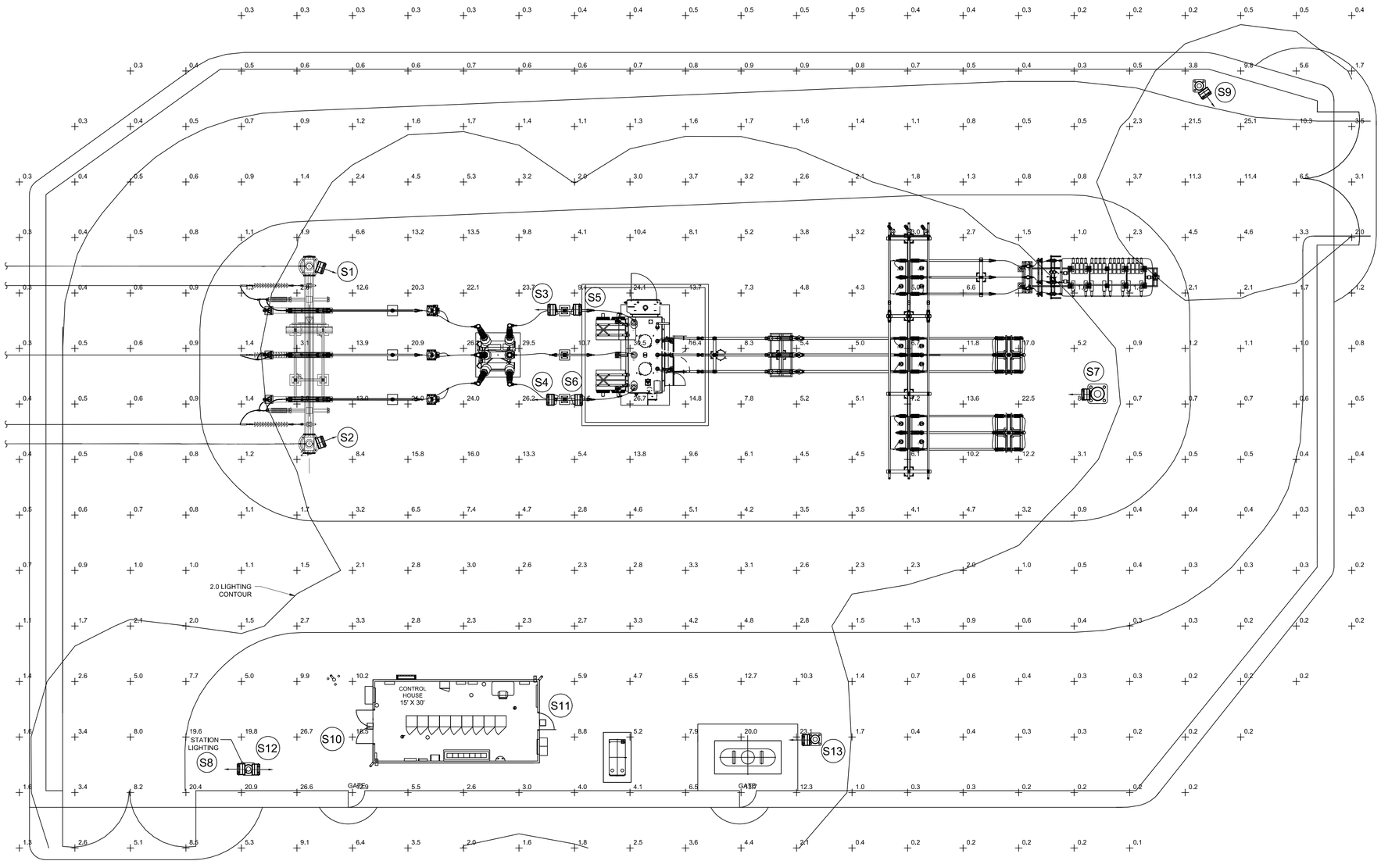



TABLE 1 - LIGHTING FIXTURE SCHEDULE

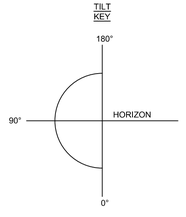
| FIXTURE | | | | | | | LAMP | PHOTO-ELECTRIC CONTROL |
|---|---|---|---|---|---|---|---|---|
| TYPE | WATTAGE | LIGHT SOURCE | VOLTAGE | WEIGHT (LBS) | LUMENS | NEMA CLASS | MANUFACTURER (GE) ITEM # | MANUFACTURER ITEM # |
| A1 | 25W | LED | 120V | 9.5 | 2,900 | N/A | GE EVOLVE EWAS011A3730N | N/A |
| A3 | 150W | LED | 120V | 26 | 18,800 | 7X6 | GE EVOLVE EFH101AA76740 W/ TOP & SIDE VISOR TSDKBZ-EFH | N/A |
| A5 | 297W | LED | 120V | 26 | 37,800 | 7X6 | GE EVOLVE EFH101EE76740 W/ TOP & SIDE VISOR TSDKBZ-EFH | N/A |

FIXTURE SCHEDULE

| LIGHT NO. | TYPE | TILT ANGLE | WATTAGE | VOLTAGE |
|---|---|---|---|---|
| S1 | A3 | 75° | 150W | 120VAC |
| S2 | A3 | 75° | 150W | 120VAC |
| S3 | A3 | 60° | 150W | 120VAC |
| S4 | A3 | 60° | 150W | 120VAC |
| S5 | A3 | 60° | 150W | 120VAC |
| S6 | A3 | 60° | 150W | 120VAC |
| S7 | A5 | 75° | 297W | 120VAC |
| S8 | A3 | 45° | 150W | 120VAC |
| S9 | A3 | 45° | 150W | 120VAC |
| S10 | A1 | 0° | 25W | 120VAC |
| S11 | A1 | 0° | 25W | 120VAC |
| S12 | A3 | 45° | 150W | 120VAC |
| S13 | A3 | 45° | 150W | 120VAC |

AVERAGE = 4.4 F.C.
MAX= _ _ _ 30.5 F.C.
MIN = _ _ _ _ 0.2 F.C.

TILT KEY




NOTES:
1. STATION LIGHTING IS COMPRISED OF (2) 25W, (10) 150W, AND (1) 297 W, 120V AC LED FLOODLIGHTS.
2. LIGHT FIXTURES TO BE MOUNTED ON INDICATED STRUCTURES 15' ABOVE FINISHED GRADE. THE FIXTURES SHALL BE AIMED AS SHOWN ON THE DRAWING AND HAVE A TILT ANGLE BASED ON THE FIXTURE SCHEDULE.
3. YARD CONTOURS ARE 2.0 FT CANDLES (F.C.) FOR THIS STATION. 2 FT CANDLES IS THE EQUIVALENT OF 22 LUMENS PER SQUARE METER.
4. FLOODLIGHTS INSTALLED WITH TOP AND SIDE VISORS ACHIEVE FULL CUTOFF REQUIREMENT (0 F.C.) ABOVE FIXTURE.

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| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:
BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:
TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
GENERAL ARRANGEMENT

LIGHTING PLAN

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/21 |

SCALE AT 22" x 34": 0 4' 8' 16' 24'
3/32" = 1'-0"

SHEET NO: HV-P.13.01
REV: 0

PLOTTED: 1/14/2022 11:05 AM
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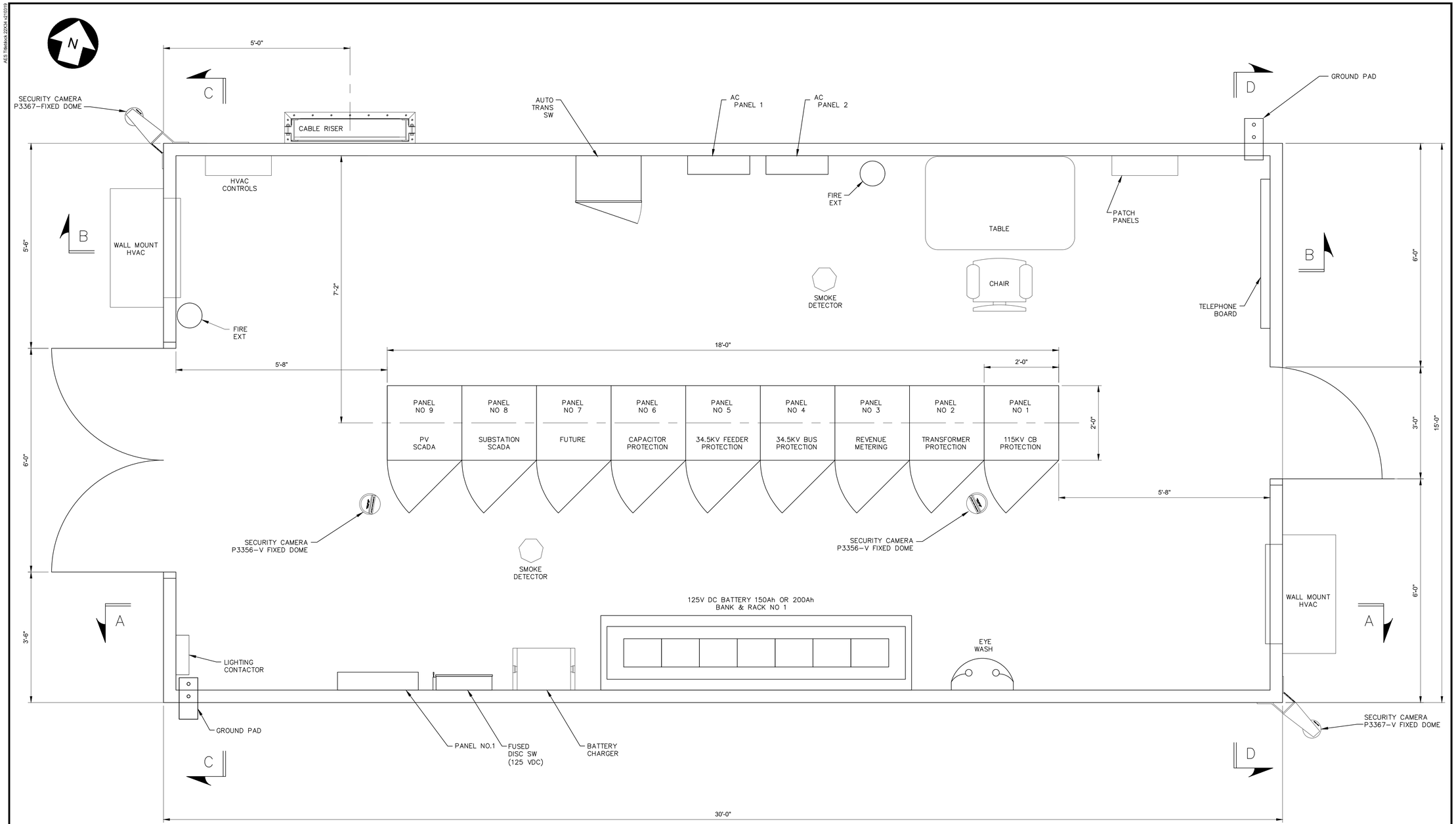
AES Tiledesk 22534 v210319




EQUIPMENT ENCLOSURE
PLAN VIEW
SCALE: 3/4" = 1'-0"

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PLOTTED: 1/10/2022 8:50 AM
By: cpascale
C:\Users\cpascale\Documents\422299\Brkhv\P-14.01 CONTROL HSE PLAN.dwg
XREFs:

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

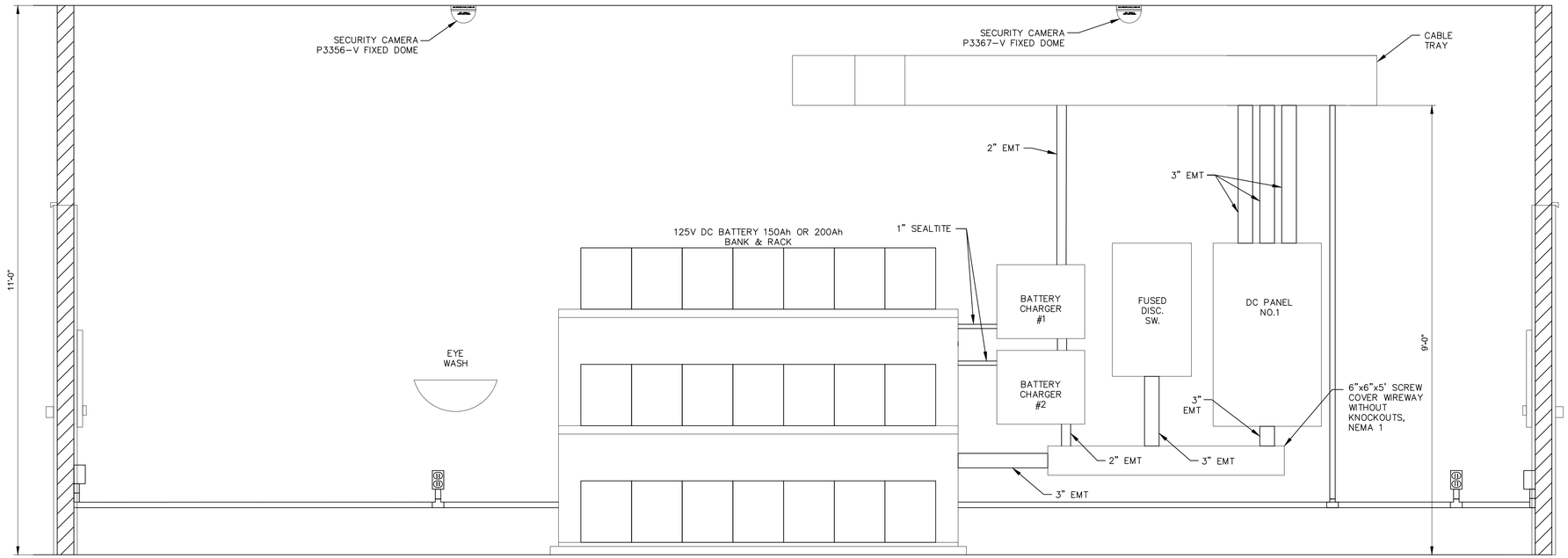
GENERAL ARRANGEMENT

CONTROL HOUSE PLAN

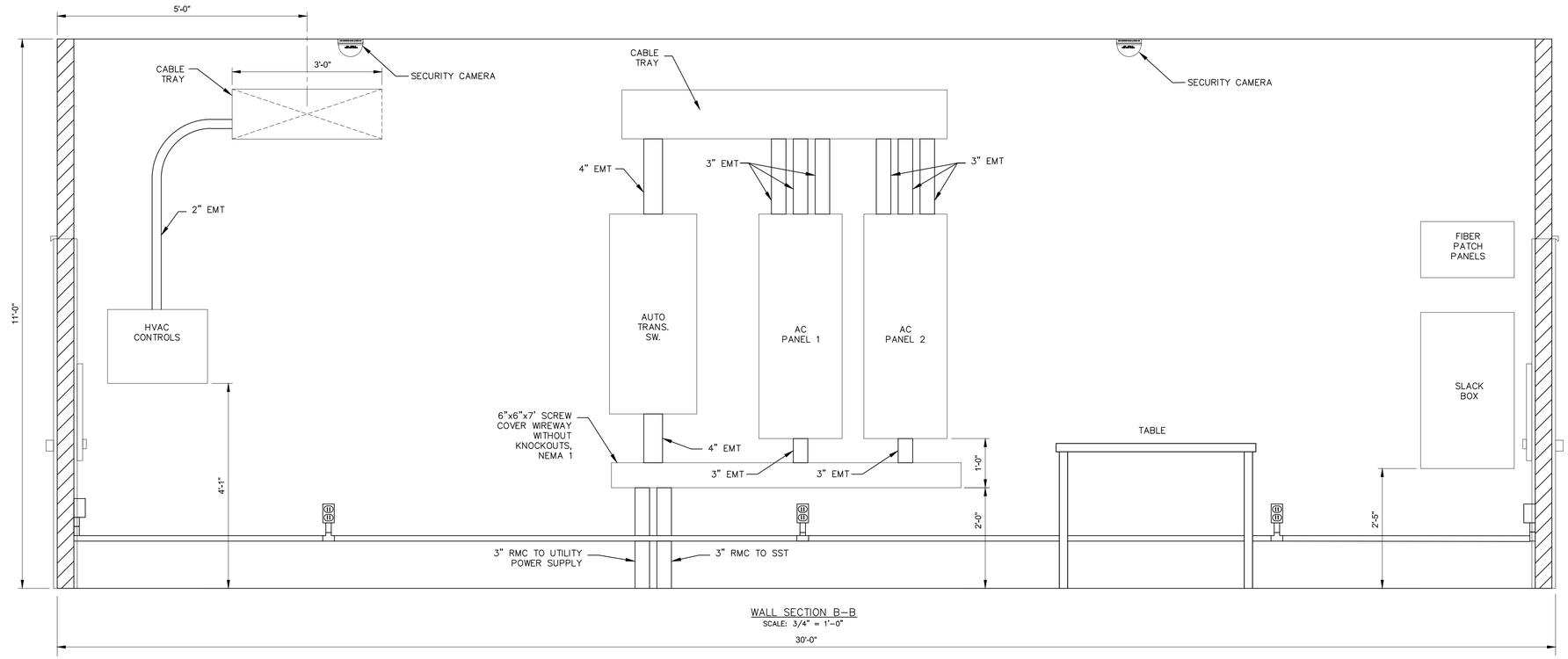
| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
0 6" 1' 2' 3'
3/4" = 1'-0"

SHEET NO: HV-P.14.01
REV: 0




WALL SECTION A-A
SCALE: 3/4" = 1'-0"




WALL SECTION B-B
SCALE: 3/4" = 1'-0"

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KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GENERAL ARRANGEMENT

CONTROL HOUSE ELEVATIONS SECTIONS A-A, B-B

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
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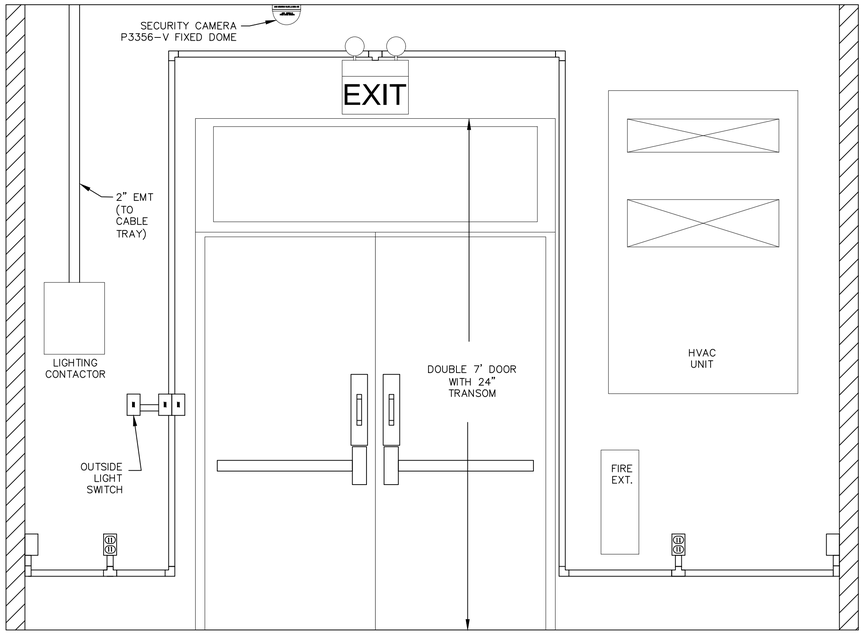
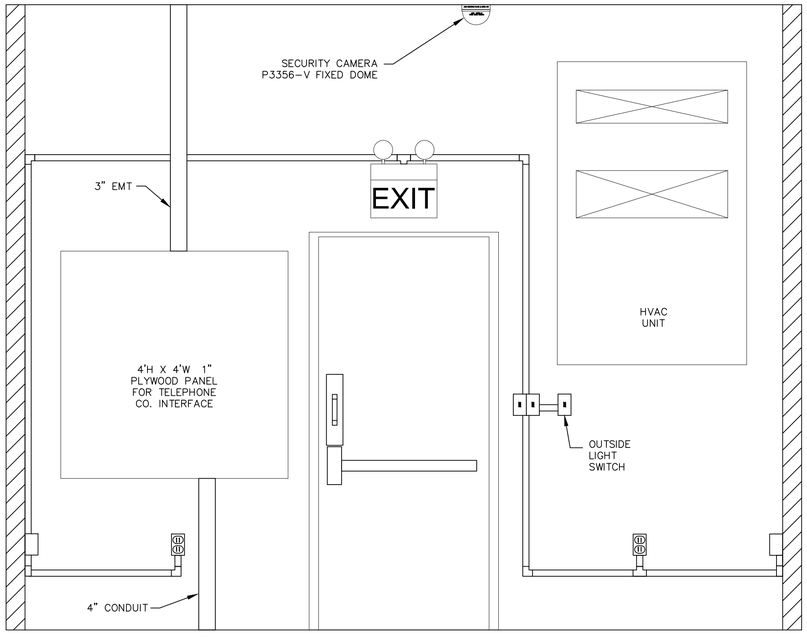
3/4" = 1'-0"

SHEET NO: HV-P.15.01
REV: 0




WALL SECTION C-C
SCALE: 3/4" = 1'-0"




WALL SECTION D-D
SCALE: 3/4" = 1'-0"

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PE STAMP:




KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

GENERAL ARRANGEMENT

CONTROL HOUSE ELEVATIONS SECTIONS C-C, D-D

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
0 6" 1' 2' 3'
3/4" = 1'-0"

SHEET NO: HV-P.15.02
REV: 0




## LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | PROPERTY BOUNDARY | |
| | 94C SETBACK | |
| | TOWN SETBACK | |
| | 94C / TOWN SETBACK | |
| | LIMIT OF DISTURBANCE | |
| | SOIL BOUNDARY | |
| | SILT FENCE | SF |
| OHE | OVERHEAD ELECTRIC | |
| | CHAIN LINK FENCE | |
| | BARBED WIRE FENCE | |
| | GRAVEL ROAD | |
| | BASELINE | |
| | PV ARRAY | |
| | EQUIPMENT PADS & BOLLARDS | |
| 598 | MINOR CONTOUR | 598 |
| 600 | MAJOR CONTOUR | 600 |
| | USACE WETLAND | |
| | NON-JD WETLAND | |
| | FEMA ZONE A | |
| | STREAM | |
| | TREELINE | |
| | BUILDING | |
| | STONE WALL | |
| | UTILITY POLE | |
| | CULVERT | |
| | WETLAND/STREAM BUFFER | |
| | LAYDOWN YARD | |
| | TOWN BOUNDARY | |
| | COLLECTOR LINE | |
| | RIGHT OF WAY | |
| | PAVED ROAD | |

50 0 50 100 FT

SCALE: 1" = 50'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
KEITH C. MARTIN
No. 099090
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN CO., NY

SHEET TITLE & DESCRIPTION:

TRANSMISSION INTERCONNECTION PLAN

-

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. LYONS |
| DWN: | D. LYONS |
| CHK: | K. DRZEWIECKI |
| APV: | K. MARTIN |
| DATE: | 07/08/2021 |

SCALE AT 24" x 36":

1"=50'

| SHEET NO: | REV: |
|---|---|
| HV-C.09.01 | 0 |

AES Tiledesk 22534 v210319

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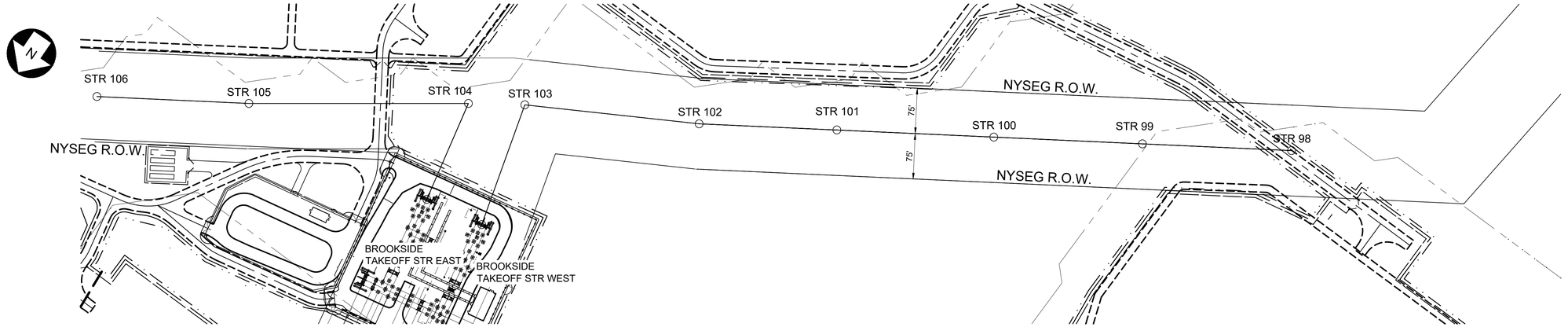
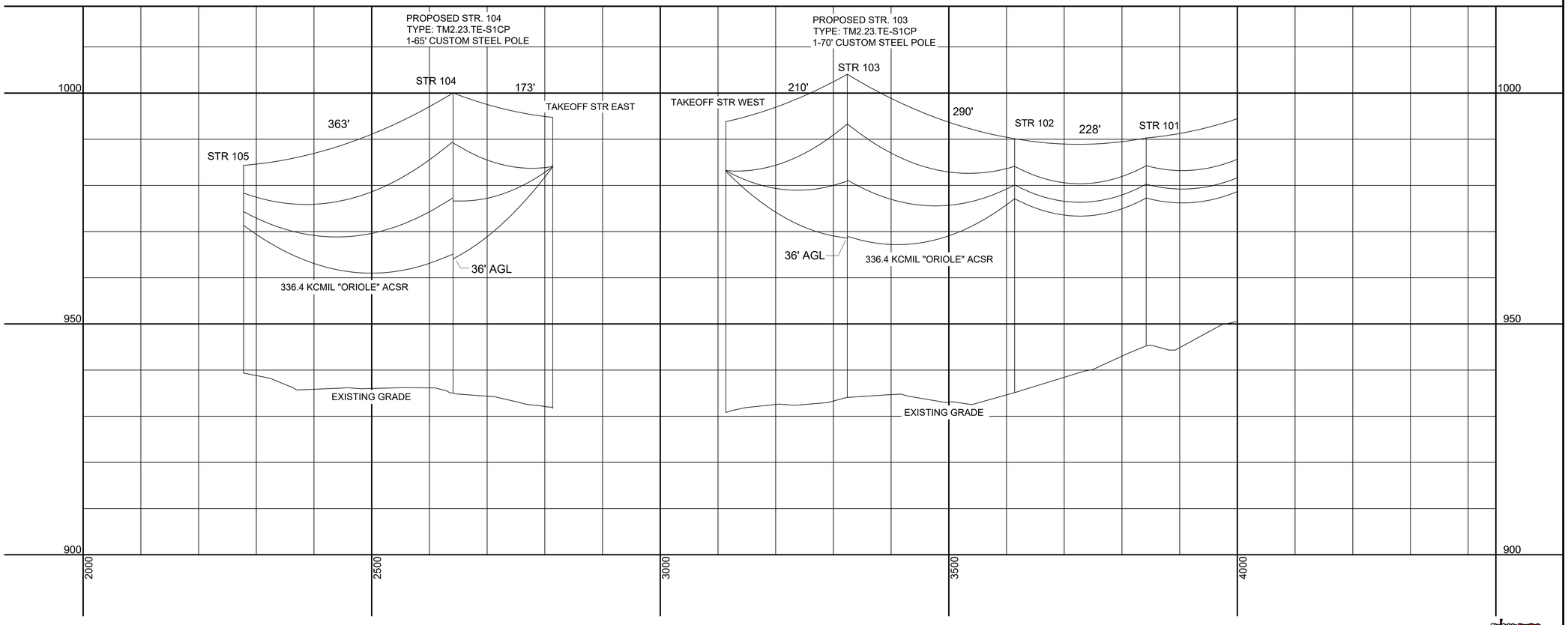



PLAN VIEW

80.0 ft. Horiz. Scale

10.0 ft. Vert. Scale




PROFILE VIEW

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Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK
KEVIN G. MARTIN
No. 099090
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN CO., NY

SHEET TITLE & DESCRIPTION:

INTERCONNECTION PLAN AND PROFILE

-

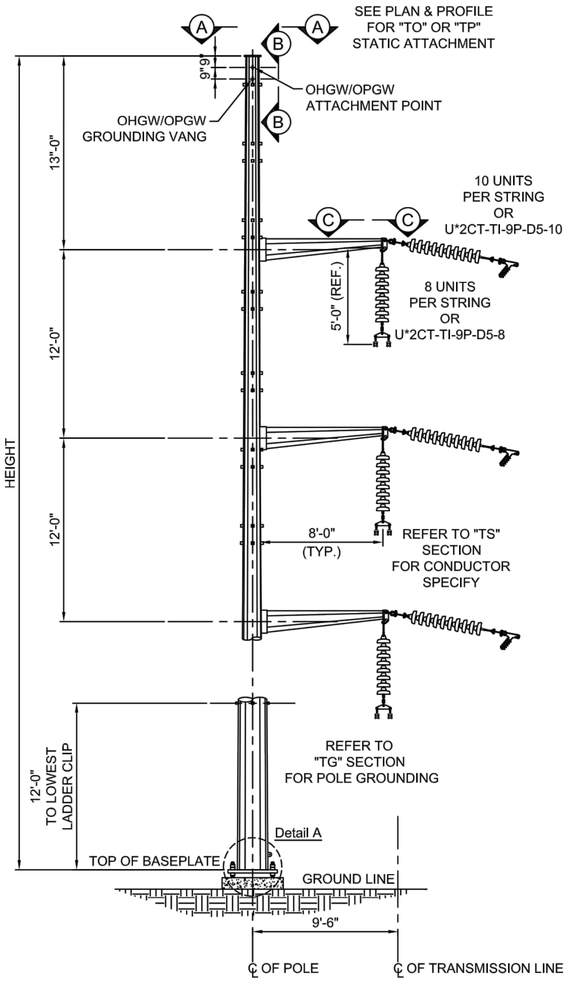
| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. LYONS |
| DWN: | D. LYONS |
| CHK: | K. DRZEWIECKI |
| APV: | K. MARTIN |
| DATE: | 07/08/2021 |

SCALE AT 24" x 36":

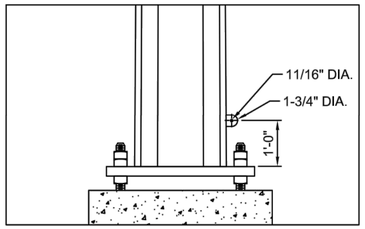
1"=80' HORIZ. / 1'=10" VERT.

SHEET NO: HV-C.09.02

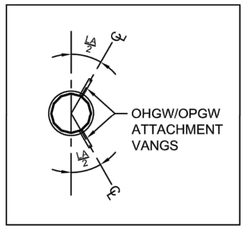
REV: 0



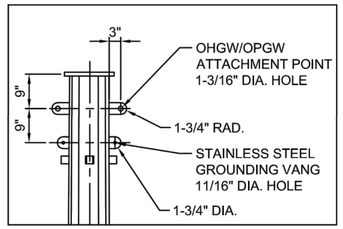

DEADEND ON ARMS - 0° TO 90°
TYPE SPDE



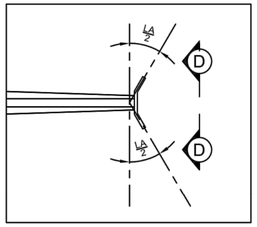

Detail 'A'
STRUCTURE GROUNDING VANG -
STAINLESS STEEL



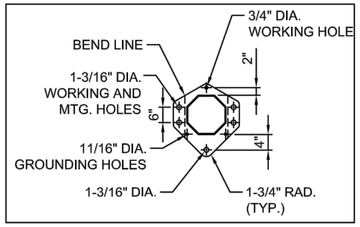

Section 'A-A'
POLE TOP WITH OHGW/OPGW
ATTACHMENTS




Section 'B-B'
OHGW/OPGW ATTACHMENT VANG
MAX. THICKNESS 3/4"




Section 'C-C'




Section 'D-D'
DAVIT ARM END ATTACHMENT
PLATE DETAIL PLAN VIEW

FOR CORRECT CU: SUBSTITUTE 2 FOR NYSEG, 3 FOR CMP OR 4 FOR RG&E IN PLACE OF ASTERISK (U*_).

CU FUNCTION: U_TL69 FOR 34KV & 46KV, U_TG69 FOR 69KV THRU 344KV, U_T345 FOR 345KV & GREATER.

NOTE A: OTHER STANDARD DRAWINGS REQUIRED:
- TD FOUNDATION & BACKFILL
- TE STEEL STRUCTURE INFORMATION
- TG GROUNDING & GROUND ROD DETAIL
- TK MARKINGS
- TM CONDUCTOR ATTACHMENT DETAILS STEEL STRUCTURES
- TO OPGW ATTACHMENT DETAILS
- TP STATIC WIRE ATTACHMENT DETAILS
- TS CONDUCTOR SPECIFIES

NOTE B: ALL HOLES SHALL BE CHAMFERED BOTH SIDES

NOTE C: LADDER CLIPS SHALL BE POSITIONED SUCH THAT TRANSIT TO ALL SIDES OF THE POLE IS POSSIBLE AROUND ALL CONDUCTOR AND ARM CONNECTIONS.

NOTE D: GROUNDING VANGS SHALL BE STAINLESS STEEL WITH A THICKNESS OF 1/2"

NOTE E: MAXIMUM VANG PLATE THICKNESS SHALL NOT BE GREATER THAN 3/4"

NOTE F: REFER TO SECTION "TS" FOR CONDUCTOR ASSEMBLIES

NOTE G: IF CONDUCTOR NESC HEAVY LOADING TENSION IS LESS THAN 10,000#, USE STRAIN CLAMPS; IF NESC HEAVY LOADING TENSION IS 10,000# OR GREATER USE COMPRESSION DEAD END ASSEMBLIES.

Contact Engineering Standards - Transmission for the creation of new standards and CUs. | Drawing Scale: N/A

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AVANGRID | AVANGRID TRANSMISSION CONSTRUCTION STANDARDS MANUAL | STRUCTURE STANDARDS - STEEL<br>115kV SINGLE POLE SINGLE CIRCUIT<br>DEADEND ON ARMS - 0° TO 90°<br>TYPE SPDE | | | | | Revision 1<br>Date 11/29/2017 |
| Drwn. By: DG/DAS | Date Dr.: 06/27/2017 | Checked By: SM/DAS | Date Ck.: 06/28/2017 | Approved By: PGZ/DAS | Date App.: 07/20/2017 | TM2.23.TE-S1CP | Sheets 1 OF 3 |

Note 1: The Avangrid drawing TM2.23.TE-S1CP is provided as a representation of the structure type that will be utilized. The wire type, tensions, and structure loadings will be determined during detailed design.

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PE STAMP:

STATE OF NEW YORK · KEVIN G. MARTIN · LICENSED PROFESSIONAL ENGINEER · No. 099090

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN CO., NY

SHEET TITLE & DESCRIPTION:

SINGLE CIRCUIT
DEADEND ON ARMS
STRUCTURE DRAWING

SHEET 1 OF 3

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. LYONS |
| DWN: | D. LYONS |
| CHK: | K. DRZEWIECKI |
| APV: | K. MARTIN |
| DATE: | 07/08/2021 |

SCALE AT 24" x 36": NTS

SHEET NO: HV-C.09.03 | REV: 0

Dig Safely. New York Call 811 before you dig


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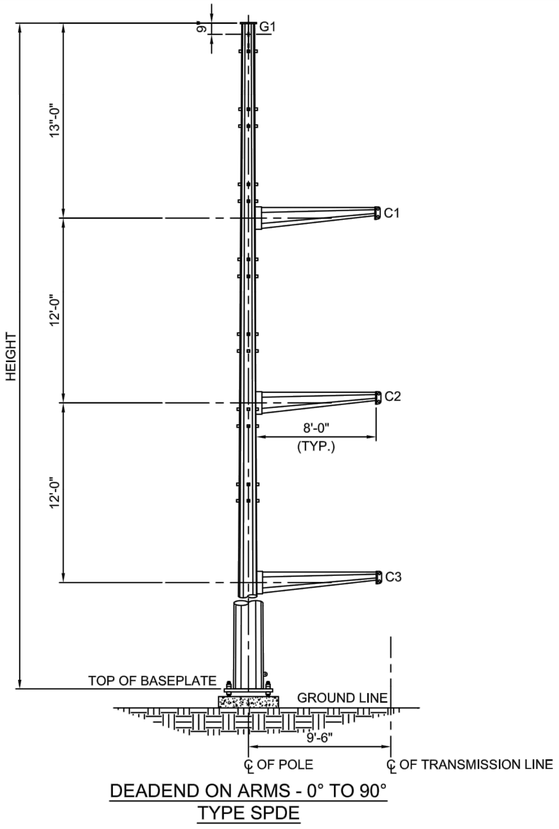
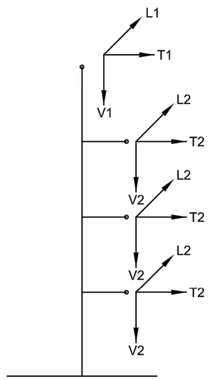



DEADEND ON ARMS - 0° TO 90°
TYPE SPDE




LOAD TREE

| HEIGHT (FT) |
|---|
| 80 |
| 85 |
| 90 |
| 95 |
| 100 |
| 105 |
| 110 |
| 115 |
| 120 |

TABLE A: LINE INFORMATION

| WIRE DESIGNATION | | | | DESIGN LINE TENSIONS (LBS) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WIRE | TYPE | DIA (INCHES) | WEIGHT (LBS/FT) | NESC HEAVY | NESC HIGH WIND | NESC WIND & ICE | HEAVY ICE | CONSTRUCTION/ MAINTENANCE | CONSTRUCTION/ STRINGING | EVERYDAY/ DEFLECTION | DIFFERENTIAL ICE, 1" ICE/ NO ICE |
| C1-C3 | (2) 795 "DRAKE" ACSR | 1.108 | 1.094 | 8000 | 7540 | 11010 | 12330 | 4560 | 5390 | 3520 | 9900/5360 |
| G1 | DNO-8230 OPGW | 0.913 | 0.908 | 7750 | 6910 | 10810 | 12100 | 4280 | 5180 | 3270 | 9620/5150 |

TABLE B: DESIGN CRITERIA

| STRUCTURE TYPE | LINE ANGLE, θ (DEG.) | DESIGN RULING SPAN (FT) | DESIGN WIND SPAN (FT) | DESIGN WEIGHT SPAN (FT) |
|---|---|---|---|---|
| DEADEND | 0 - 90 | 450 | 500 | 700 |

TABLE C: OVERLOAD FACTORS

| WEATHER CASE | TEMPERATURE, °F | WIND PRESSURE (PSF) | RADIAL ICE (IN) | OVERLOAD FACTORS | | |
|---|---|---|---|---|---|---|
| | | | | WIND | TENSION | VERTICAL |
| NESC HEAVY, ALL WIRES INTACT (RULE 250B) | 0 | 4 | 0.5 | 2.50 | 1.65 | 1.50 |
| NESC HIGH WIND, ALL WIRES INTACT (RULE 250C) | 60 | 30 | 0 | 1.00 | 1.00 | 1.00 |
| NESC CONCURRENT WIND/ICE, ALL WIRES INTACT (RULE 250D) | -5 | 9.2 | 1 | 1.00 | 1.00 | 1.00 |
| HEAVY ICE, ALL WIRES INTACT | 32 | 0 | 1.5 | 1.00 | 1.00 | 1.00 |
| CONSTRUCTION/MAINTENANCE | 30 | 2 | 0 | 1.50 | 1.50 | 1.50 |
| CONSTRUCTION/STRINGING | 0 | 2 | 0 | 1.00 | 1.00 | 1.50 |
| EVERYDAY/DEFLECTION | 60 | 0 | 0 | 1.00 | 1.00 | 1.00 |

TABLE D: WIRE LOADS (LBS) (SEE NOTE 1)

| WIRE | LOAD DIRECTION | 1. NESC HEAVY | 2. NESC HIGH WIND | 3. NESC WIND & ICE | 4. HEAVY ICE | 5A. CONSTRUCTION/ MAINTENANCE (SEE NOTE 10) | 5B. CONSTRUCTION/ MAINTENANCE (SEE NOTE 10) | 6. CONSTRUCTION/ STRINGING |
|---|---|---|---|---|---|---|---|---|
| G1 | V1 | 2630 | 1140 | 2800 | 4290 | 9200 | 1700 | 4160 |
| | T1 | 18700 | 10600 | 16100 | 17200 | 9160 | 9160 | 6890 |
| | L1 | 0 | 0 | 0 | 0 | 0 | 0 | 4490 |
| C1-C3 | V2 | 6230 | 2680 | 6480 | 9670 | 11600 | 4020 | 9130 |
| | T2 | 38600 | 23300 | 32900 | 34900 | 19600 | 19600 | 12300 |
| | L2 | 0 | 0 | 0 | 0 | 0 | 0 | 6300 |

| WIRE | LOAD DIRECTION | 7. EVERYDAY/ DEFLECTION | 8. DIFFERENTIAL ICE | 9. NESC HEAVY, ANGLE DEADEND | 10. NESC HIGH WIND, ANGLE DEADEND | 11. NESC WIND & ICE, ANGLE DEADEND | 12. HEAVY ICE, ANGLE DEADEND | 13. NESC HEAVY, TANGENT DEADEND |
|---|---|---|---|---|---|---|---|---|
| G1 | V1 | 1140 | 2470 | 1690 | 820 | 1650 | 2390 | 1690 |
| | T1 | 4620 | 10500 | 9240 | 5170 | 7920 | 8560 | 400 |
| | L1 | 0 | 3160 | 9240 | 5170 | 7920 | 8560 | 12800 |
| C1-C3 | V2 | 2680 | 7750 | 4030 | 1910 | 3870 | 5500 | 4030 |
| | T2 | 9960 | 21600 | 19200 | 11400 | 16200 | 17500 | 880 |
| | L2 | 0 | 6420 | 19200 | 11400 | 16200 | 17500 | 26400 |

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ANSI B 11" X 17"

## NOTES:

1. ALL LOADS ARE ULTIMATE VALUES AND INCLUDE OVERLOAD FACTORS. VERTICAL LOADS INCLUDE THE WEIGHT OF INSULATORS AND HARDWARE WITH AN ADDITIONAL 500 LB WORKING LOAD (EXCEPT FOR THE EVERYDAY LOAD CASE). UNLESS NOTED OTHERWISE LOADS ARE DERIVED FROM MAXIMUM LINE ANGLE.
2. STRUCTURES ARE TO BE DESIGNED IN ACCORDANCE WITH ASCE/SEI 48-11, OR LATEST EDITION, AND TECHNICAL MANUAL (TM2.22.01) "TUBULAR STEEL POLE SPECIFICATION". IN CASE OF CONFLICT, THE MORE STRINGENT DOCUMENT SHALL BE USED.
3. FOR STRUCTURE FINISH (I.E. GALVANIZING, WEATHERING, PAINTED) REFER TO TM2.22.01, PART 5.
4. WIND PRESSURE SHOWN IN TABLE C SHALL BE APPLIED IN THE WORST CASE DIRECTION FOR THE CORRESPONDING LOAD CASE. THE EXTREME WIND (NESC HIGH WIND) LOAD CASE SHALL ALSO BE APPLIED TO THE STRUCTURE WITHOUT WIRE LOADS APPLIED. THE FOLLOWING SHAPE FACTORS SHALL BE USED: 1.0 FOR 12 OR 16-SIDED, 1.4 FOR 6 OR 8-SIDED, 2.0 FOR SQUARE/FLAT.
5. HORIZONTAL STRUCTURE DEFLECTION SHALL BE LIMITED TO 1% OF POLE HEIGHT ABOVE GROUND LINE. RAKING/CAMBERING IS NOT PERMITTED.
6. MCGREGOR STYLE LADDERS AND LADDER CLIPS SHALL BE SUPPLIED FOR EACH POLE.
7. WORKING HOLES SHALL BE DESIGNED FOR A MINIMUM LOAD OF 60 KIPS APPLIED IN ANY DIRECTION.
8. DAVIT ARMS SHALL BE UPSWEPT AT 1 INCH PER LINEAR FOOT AND REMAIN SO UNDER EVERYDAY/DEFLECTION LOADING. VERTICAL DEFLECTION SHALL BE LIMITED TO 1% OF ARM LENGTH UNDER HEAVY ICE LOADING.
9. ANCHOR BOLT EMBEDMENT DEPTH SHALL BE CALCULATED IN ACCORDANCE WITH ACI 318, DETERMINED USING ULTIMATE BOND STRESS VALUES BASED ON 4,000 PSI CONCRETE COMPRESSIVE STRENGTH.
10. FOR CONSTRUCTION/MAINTENANCE CASE "A", LOADS SHALL BE APPLIED TO ONE ATTACHMENT POINT AT A TIME WHILE REMAINING ATTACHMENT POINTS USE LOADS FROM CORRESPONDING LOAD CASE "B".

Contact Engineering Standards - Transmission for the creation of new standards and CUs.

Drawing Scale: N/A

AVANGRID

AVANGRID TRANSMISSION CONSTRUCTION STANDARDS MANUAL

STRUCTURE STANDARDS - STEEL
115kV SINGLE POLE SINGLE CIRCUIT
DEADEND ON ARMS - 0° TO 90°
TYPE SPDE

Revision: 1

Date: 11/29/2017

| Drwn. By: | Date Dr.: | Checked By: | Date Ck.: | Approved By: | Date App.: | |
|---|---|---|---|---|---|---|
| DG/DAS | 06/27/2017 | SM/DAS | 06/28/2017 | PGZ/DAS | 07/20/2017 | TM2.23.TE-S1CP |

Sheets 2 OF 3

Note 1: The Avangrid drawing TM2.23.TE-S1CP is provided as a representation of the structure type that will be utilized. The wire type, tensions, and structure loadings will be determined during detailed design.

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Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK · KEVIN C. MARTIN · No. 099090 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN CO., NY

SHEET TITLE & DESCRIPTION:

SINGLE CIRCUIT
DEADEND ON ARMS
STRUCTURE DRAWING

SHEET 2 OF 3

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. LYONS |
| DWN: | D. LYONS |
| CHK: | K. DRZEWIECKI |
| APV: | K. MARTIN |
| DATE: | 07/08/2021 |

SCALE AT 24" x 36":

NTS

SHEET NO: HV-C.09.04

REV: 0


AES Tableau 22/23A 4/2019

PLOTTED: 11/4/2020 9:36 AM
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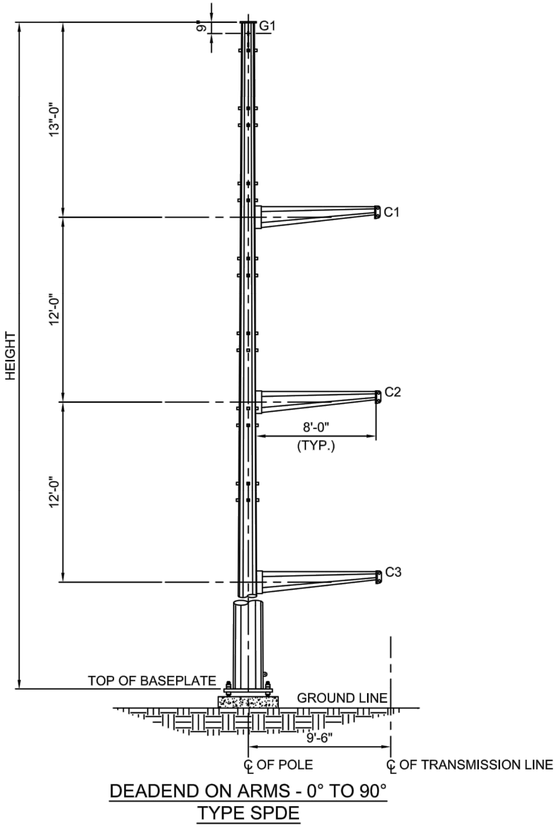
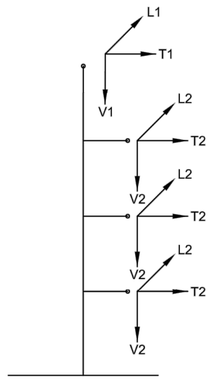
ADDS




DEADEND ON ARMS - 0° TO 90°
TYPE SPDE




LOAD TREE

| HEIGHT (FT) |
|---|
| 80 |
| 85 |
| 90 |
| 95 |
| 100 |
| 105 |
| 110 |
| 115 |
| 120 |

TABLE A: LINE INFORMATION

| WIRE DESIGNATION | | | | DESIGN LINE TENSIONS (LBS) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WIRE | TYPE | DIA (INCHES) | WEIGHT (LBS/FT) | NESC HEAVY | NESC HIGH WIND | NESC WIND & ICE | HEAVY ICE | CONSTRUCTION/ MAINTENANCE | CONSTRUCTION/ STRINGING | EVERYDAY/ DEFLECTION | DIFFERENTIAL ICE, 1" ICE/ NO ICE |
| C1-C3 | (2) 795 "DRAKE" ACSR | 1.108 | 1.094 | 11200 | 10730 | 14740 | 16440 | 7240 | 8270 | 5360 | 13440/8230 |
| G1 | DNO-8230 OPGW | 0.913 | 0.908 | 10530 | 9460 | 14240 | 15980 | 6440 | 7500 | 4760 | 12800/7460 |

TABLE B: DESIGN CRITERIA

| STRUCTURE TYPE | LINE ANGLE, θ (DEG.) | DESIGN RULING SPAN (FT) | DESIGN WIND SPAN (FT) | DESIGN WEIGHT SPAN (FT) |
|---|---|---|---|---|
| DEADEND | 0 - 90 | 650 | 700 | 950 |

TABLE C: OVERLOAD FACTORS

| WEATHER CASE | TEMPERATURE, °F | WIND PRESSURE (PSF) | RADIAL ICE (IN) | OVERLOAD FACTORS | | |
|---|---|---|---|---|---|---|
| | | | | WIND | TENSION | VERTICAL |
| NESC HEAVY, ALL WIRES INTACT (RULE 250B) | 0 | 4 | 0.5 | 2.50 | 1.65 | 1.50 |
| NESC HIGH WIND, ALL WIRES INTACT (RULE 250C) | 60 | 30 | 0 | 1.00 | 1.00 | 1.00 |
| NESC CONCURRENT WIND/ICE, ALL WIRES INTACT (RULE 250D) | -5 | 9.2 | 1 | 1.00 | 1.00 | 1.00 |
| HEAVY ICE, ALL WIRES INTACT | 32 | 0 | 1.5 | 1.00 | 1.00 | 1.00 |
| CONSTRUCTION/MAINTENANCE | 30 | 2 | 0 | 1.50 | 1.50 | 1.50 |
| CONSTRUCTION/STRINGING | 0 | 2 | 0 | 1.00 | 1.00 | 1.50 |
| EVERYDAY/DEFLECTION | 60 | 0 | 0 | 1.00 | 1.00 | 1.00 |

TABLE D: WIRE LOADS (LBS) (SEE NOTE 1)

| WIRE | LOAD DIRECTION | 1. NESC HEAVY | 2. NESC HIGH WIND | 3. NESC WIND & ICE | 4. HEAVY ICE | 5A. CONSTRUCTION/ MAINTENANCE (SEE NOTE 10) | 5B. CONSTRUCTION/ MAINTENANCE (SEE NOTE 10) | 6. CONSTRUCTION/ STRINGING |
|---|---|---|---|---|---|---|---|---|
| G1 | V1 | 3300 | 1360 | 3620 | 5640 | 9540 | 2040 | 5600 |
| | T1 | 25400 | 14600 | 21300 | 22600 | 13800 | 13800 | 8550 |
| | L1 | 0 | 0 | 0 | 0 | 0 | 0 | 4490 |
| C1-C3 | V2 | 7800 | 3230 | 8330 | 12700 | 12400 | 4840 | 12700 |
| | T2 | 54100 | 33100 | 44100 | 46500 | 31000 | 31000 | 16400 |
| | L2 | 0 | 0 | 0 | 0 | 0 | 0 | 6300 |

| WIRE | LOAD DIRECTION | 7. EVERYDAY/ DEFLECTION | 8. DIFFERENTIAL ICE | 9. NESC HEAVY, ANGLE DEADEND | 10. NESC HIGH WIND, ANGLE DEADEND | 11. NESC WIND & ICE, ANGLE DEADEND | 12. HEAVY ICE, ANGLE DEADEND | 13. NESC HEAVY, TANGENT DEADEND |
|---|---|---|---|---|---|---|---|---|
| G1 | V1 | 1360 | 2990 | 2020 | 930 | 2060 | 3070 | 2020 |
| | T1 | 6730 | 14400 | 12600 | 7090 | 10500 | 11300 | 560 |
| | L1 | 0 | 3780 | 12600 | 7090 | 10500 | 11300 | 17400 |
| C1-C3 | V2 | 3230 | 9610 | 4810 | 2190 | 4800 | 6990 | 4810 |
| | T2 | 15200 | 30700 | 26800 | 16200 | 21700 | 23300 | 1230 |
| | L2 | 0 | 7370 | 26800 | 16200 | 21700 | 23300 | 37000 |

NOTES:

1. ALL LOADS ARE ULTIMATE VALUES AND INCLUDE OVERLOAD FACTORS. VERTICAL LOADS INCLUDE THE WEIGHT OF INSULATORS AND HARDWARE WITH AN ADDITIONAL 500 LB WORKING LOAD (EXCEPT FOR THE EVERYDAY LOAD CASE). UNLESS NOTED OTHERWISE LOADS ARE DERIVED FROM MAXIMUM LINE ANGLE.
2. STRUCTURES ARE TO BE DESIGNED IN ACCORDANCE WITH ASCE/SEI 48-11, OR LATEST EDITION, AND TECHNICAL MANUAL (TM2.22.01) "TUBULAR STEEL POLE SPECIFICATION". IN CASE OF CONFLICT, THE MORE STRINGENT DOCUMENT SHALL BE USED.
3. FOR STRUCTURE FINISH (I.E. GALVANIZING, WEATHERING, PAINTED) REFER TO TM2.22.01, PART 5.
4. WIND PRESSURE SHOWN IN TABLE C SHALL BE APPLIED IN THE WORST CASE DIRECTION FOR THE CORRESPONDING LOAD CASE. THE EXTREME WIND (NESC HIGH WIND) LOAD CASE SHALL ALSO BE APPLIED TO THE STRUCTURE WITHOUT WIRE LOADS APPLIED. THE FOLLOWING SHAPE FACTORS SHALL BE USED: 1.0 FOR 12 OR 16-SIDED, 1.4 FOR 6 OR 8-SIDED, 2.0 FOR SQUARE/FLAT.
5. HORIZONTAL STRUCTURE DEFLECTION SHALL BE LIMITED TO 1% OF POLE HEIGHT ABOVE GROUND LINE. RAKING/CAMBERING IS NOT PERMITTED.
6. MCGREGOR STYLE LADDERS AND LADDER CLIPS SHALL BE SUPPLIED FOR EACH POLE.
7. WORKING HOLES SHALL BE DESIGNED FOR A MINIMUM LOAD OF 60 KIPS APPLIED IN ANY DIRECTION.
8. DAVIT ARMS SHALL BE UPSWEPT AT 1 INCH PER LINEAR FOOT AND REMAIN SO UNDER EVERYDAY/DEFLECTION LOADING. VERTICAL DEFLECTION SHALL BE LIMITED TO 1% OF ARM LENGTH UNDER HEAVY ICE LOADING.
9. ANCHOR BOLT EMBEDMENT DEPTH SHALL BE CALCULATED IN ACCORDANCE WITH ACI 318, DETERMINED USING ULTIMATE BOND STRESS VALUES BASED ON 4,000 PSI CONCRETE COMPRESSIVE STRENGTH.
10. FOR CONSTRUCTION/MAINTENANCE CASE "A", LOADS SHALL BE APPLIED TO ONE ATTACHMENT POINT AT A TIME WHILE REMAINING ATTACHMENT POINTS USE LOADS FROM CORRESPONDING LOAD CASE "B".

Contact Engineering Standards - Transmission for the creation of new standards and CUs.

Drawing Scale: N/A

AVANGRID

AVANGRID TRANSMISSION CONSTRUCTION STANDARDS MANUAL

STRUCTURE STANDARDS - STEEL
115kV SINGLE POLE SINGLE CIRCUIT
DEADEND ON ARMS - 0° TO 90°
TYPE SPDE

Revision: 1
Date: 11/29/2017

| Drwn. By: | Date Dr.: | Checked By: | Date Ck.: | Approved By: | Date App.: | |
|---|---|---|---|---|---|---|
| DG/DAS | 06/27/2017 | SM/DAS | 06/28/2017 | PGZ/DAS | 07/20/2017 | TM2.23.TE-S1CP |

Sheets 3 OF 3

Note 1: The Avangrid drawing TM2.23.TE-S1CP is provided as a representation of the structure type that will be utilized. The wire type, tensions, and structure loadings will be determined during detailed design.

PRELIMINARY
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ANSI B 11" X 17"


aes
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Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK · KEVIN G. MARTIN · No. 099090 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN CO., NY

SHEET TITLE & DESCRIPTION:

SINGLE CIRCUIT
DEADEND ON ARMS
STRUCTURE DRAWING

SHEET 3 OF 3

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. LYONS |
| DWN: | D. LYONS |
| CHK: | K. DRZEWIECKI |
| APV: | K. MARTIN |
| DATE: | 07/08/2021 |

SCALE AT 24" x 36":

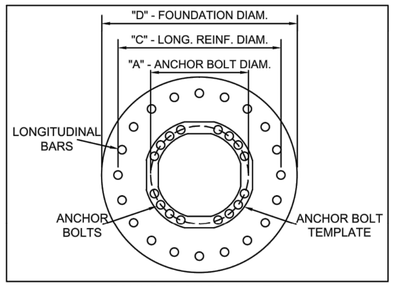
NTS

SHEET NO: HV-C.09.05

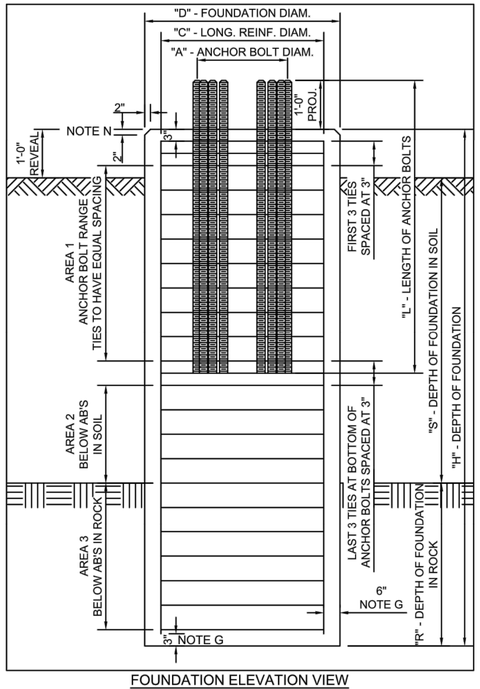
REV: 0


AES Tabloid (279.4 x 431.8)

PLOTTED: 11/4/2020 2:32 AM
C:\Users\mgerrior\Documents\Projects\3858860\Brookside Solar Energy Facility Drawings.dwg
AVGS




FOUNDATION PLAN VIEW




FOUNDATION ELEVATION VIEW

| GENERAL FOUNDATION INFORMATION | | | | | ANCHOR BOLTS | | LONG. REINFORCEMENT | | | AREA 1 | | | AREA 2 | | | AREA 3 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STR. # | "H" (FT.) | "S" (FT.) | "R" (FT.) | "D" (FT.) | "A" (FT.) | # OF ANCHOR BOLTS | "C" (FT.) | LONG. BARS SIZE | # OF LONG. BARS | TIE SIZE | # OF TIES | TIE SPACING (IN.) | TIE SIZE | # OF TIES | TIE SPACING (IN.) | TIE SIZE | # OF TIES | TIE SPACING (IN.) |
| | | | | | | | | | | | | | | | | | | |
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NOTE A: ALL TRANSMISSION STRUCTURE FOUNDATIONS SHALL BE REINFORCED CONCRETE DRILLED PIER FOUNDATIONS.

NOTE B: DESIGNER SHALL PERFORM GEOTECHNICAL SUBSURFACE INVESTIGATION AT EACH FOUNDATION LOCATION. THE DEPTH OF THE INVESTIGATION SHALL BE A MINIMUM OF 20' OR THE ESTIMATED DEPTH OF THE FOUNDATION PLUS 5'. IF THE INVESTIGATION ENCOUNTERS BEDROCK A MINIMUM OF 10' OF ROCK CORE SHALL BE OBTAINED AS PART OF THE INVESTIGATION.

NOTE C: THE FOUNDATION DESIGN SHALL NOT ACCOUNT FOR THE TOP TWO FEET OF SOIL.

NOTE D: THE FOUNDATION DESIGN SHALL WITHSTAND ALL SERVICE LOADS WITH A MINIMUM FACTOR OF SAFETY OF 3.0.

NOTE E: CONCRETE SHALL BE HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F`c) OF 4,000 PSI.

NOTE F: REINFORCING BAR AND ANCHOR BOLT DEVELOPMENT LENGTH CALCULATIONS SHALL BE PERFORMED ASSUMING A 3,000 PSI CONCRETE.

NOTE G: REINFORCING BARS SHALL MAINTAIN 3" CLEAR COVER FROM TOP AND BOTTOM OF FOUNDATION AND 6" CLEAR COVER FROM SIDES OF FOUNDATION.

NOTE H: ALL LONGITUDINAL REINFORCING BARS SHALL BE THE SAME SIZE.

NOTE I: LONGITUDINAL REINFORCING BARS SHALL BE EVENLY DISTRIBUTED AROUND THE FOUNDATION.

NOTE J: THERE SHALL BE AN EQUAL NUMBER OF LONGITUDINAL REINFORCING BARS IN EACH QUADRANT. (I.E. NUMBER OF LONGITUDINAL REINFORCING BARS SHALL BE EVENLY DIVISIBLE BY 4).

NOTE K: ALL SHEAR TIES SHALL BE THE SAME SIZE THROUGHOUT THE FOUNDATION.

NOTE L: ANCHOR BOLT CAGES MAY BE "DRY SET" OR "WET SET".

NOTE M: ANCHOR BOLT CAGES SHALL BE INSTALLED SUCH THAT ONCE THE CONCRETE HAS CURED THE ANCHOR BOLTS ARE EACH WITHIN 1/16" OF THE DESIGN LOCATION AND PLUMB WITHIN 1/8" OVER THE ANCHOR ROD PROJECTION.

NOTE N: THE TOP EDGE OF THE FOUNDATION SHALL HAVE A 2" CHAMFER.

NOTE O: IF REINFORCING BARS ARE DESIGNED TO BE DOWELED INTO THE BEDROCK BELOW THE FOUNDATION THE REINFORCING BARS SHALL BE INSTALLED USING BASF MASTERFLOW 713+ NON-SHRINK CEMENT GROUT.

NOTE P: IF REINFORCING BARS ARE DESIGNED TO BE DOWELED INTO THE BEDROCK THE DESIGNER SHALL SUBMIT A DETAILED DESIGN DRAWING SHOWING THE REINFORCING BARS TO BE DOWELED.

THIS IS A COMPUTER GENERATED DRAWING - DO NOT REVISE MANUALLY

Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.

Drawing Scale: 1" = 30"

IBERDROLA USA

TRANSMISSION CONSTRUCTION STANDARDS MANUAL

STRUCTURE STANDARDS - STEEL FOUNDATION DETAIL FOR STEEL POLES DRILLED PIER

REVISION 00

DATE 5/21/2015

| Drwn. By: | Date Dr.: | Checked By: | Date Ck.: | Approved By: | Date App.: | TM2.23.TE-01-001 | Sheet 1 |
|---|---|---|---|---|---|---|---|
| B. Franklin | 9/09/2014 | Becken/Hart | 3/05/2015 | Barry R. Hart | 4/09/2015 | | |

Ohio Safety Short Stop Call 811 before you dig

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Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · KEITH G. MARTIN · No. 099030 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY
FRANKLIN CO., NY

SHEET TITLE & DESCRIPTION:

DRILLED PIER FOUNDATION DRAWING

-

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. LYONS |
| DWN: | D. LYONS |
| CHK: | K. DRZEWIECKI |
| APV: | K. MARTIN |
| DATE: | 07/08/2021 |

SCALE AT 24" x 36":

NTS

SHEET NO: HV-C.09.06

REV: 0

AES Tilelock-22X34-r2(019)
PLOTTED: 1/14/2022 8:34 AM
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Sheet 6

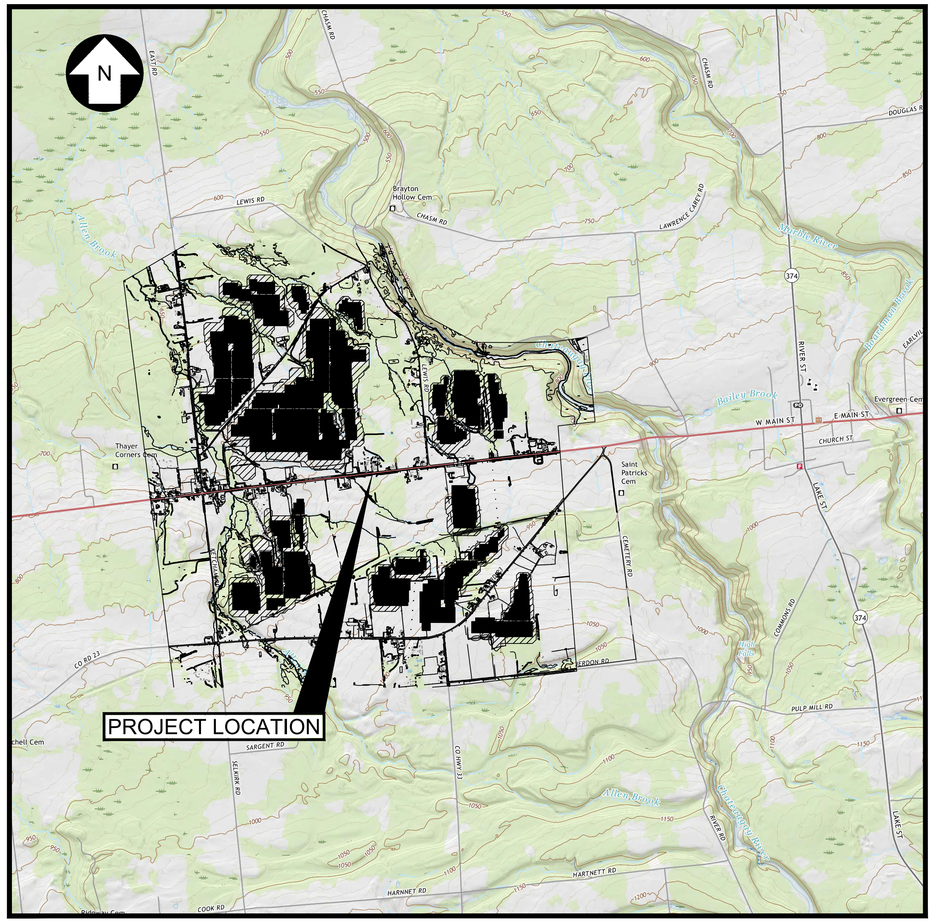
AES Tracker Block 22X24-2/10/19

# BROOKSIDE SOLAR ENERGY FACILITY

## TOWNS OF BURKE & CHATEAUGAY
## FRANKLIN COUNTY, NEW YORK
## LAT: N038° 49' 14.02"
## LONG: W076° 13' 38.41"


PREPARED FOR:
AES CLEAN ENERGY
4300 WILSON BLVD.
ARLINGTON, VA 22203

ELECTRICAL ENGINEER:
TRC ENGINEERS, LLC
249 WESTERN AVE.
AUGUSTA, ME 04330


LOCATION MAP
N.T.S.

POINT OF INTERCONNECT:

| | |
|---|---|
| DC CAPACITY: | 130,096.98 kW |
| AC CAPACITY: | 100,000.00 kW |
| DESIGN TEMP: | 31°C |
| MINIMUM TEMP: | -32°C |

GENERAL DRAWING INDEX:

| | |
|---|---|
| PV-G.00.01 | COVER SHEET |

PV SYSTEM DRAWING INDEX:

| | |
|---|---|
| PV-E.02.01 THRU 08 | ELECTRICAL ONE LINE DIAGRAM |
| PV-E.02.09 THRU 12 | ELECTRICAL THREE LINE DIAGRAM |
| PV-E.02.13 | ELECTRICAL COLLECTION ONE-LINE DIAGRAM |

SUBSTATION DRAWING INDEX:

| | |
|---|---|
| 422299-0001-001 | POI SUBSTATION SWITCHING ONE LINE DIAGRAM |
| HV-E.02.01 | COLLECTION SUBSTATION SWITCHING ONE LINE DIAGRAM |
| HV-E.04.01 THRU 05 | THREE LINE DIAGRAM |

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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TRC
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Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK · CHARLES PASCALE · LICENSED PROFESSIONAL ENGINEER · 072988

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 1/19/2022 | DESIGN DRAWINGS |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

PROJECT TITLE:
BROOKSIDE SOLAR ENERGY FACILITY

PROJECT LOCATION:
TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
COVER SHEET

---

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | A. QUIROZ |
| DWN: | C. WINTERMUTE |
| CHK: | B. TYLOCK |
| APV: | - |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":
AS NOTED

SHEET NO: PV-G.00.01
REV: 0

PLOTTED: 1/19/2022 11:53 AM
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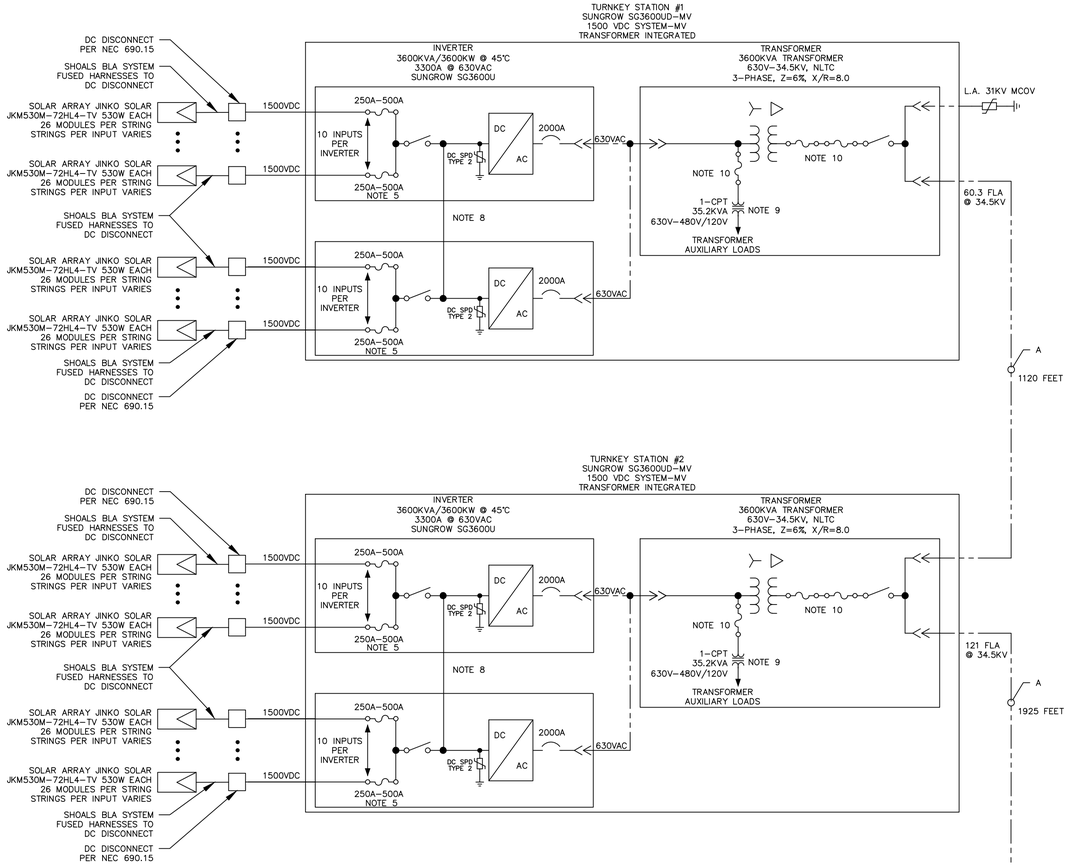
AES Tilebock 22534 v210319




| | STRINGS PER INPUT | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS1 | TS2 | TS3 | TS4 | TS5 | TS6 | TS7 | TS8 |
| 1 | 17 | 16 | 16 | 16 | 15 | 17 | 13 | 14 |
| 2 | 16 | 16 | 16 | 15 | 16 | 18 | 19 | 14 |
| 3 | 17 | 16 | 16 | 16 | 16 | 18 | 20 | 14 |
| 4 | 16 | 18 | 15 | 16 | 16 | 18 | 20 | 16 |
| 5 | 18 | 16 | 18 | 16 | 16 | 16 | 20 | 16 |
| 6 | 18 | 18 | 16 | 18 | 16 | 16 | 20 | 16 |
| 7 | 16 | 17 | 16 | 18 | 16 | 16 | 20 | 16 |
| 8 | 16 | 17 | 16 | 18 | 18 | 16 | 20 | 16 |
| 9 | 16 | 18 | 16 | 16 | 16 | 18 | 19 | 16 |
| 10 | 16 | 18 | 16 | 16 | 16 | 18 | 18 | 16 |
| 11 | 16 | 16 | 16 | 16 | 16 | 15 | 18 | 18 |
| 12 | 16 | 15 | 16 | 16 | 16 | 15 | 18 | 16 |
| 13 | 16 | 15 | 18 | 16 | 14 | 16 | 18 | 16 |
| 14 | 16 | 12 | 15 | 15 | 16 | 16 | 20 | 16 |
| 15 | 18 | 15 | 18 | 16 | 16 | 16 | 20 | 16 |
| 16 | 18 | 15 | 18 | 18 | 16 | 16 | 20 | 16 |
| 17 | 16 | 15 | 18 | 18 | 16 | 13 | 20 | 16 |
| 18 | 16 | 12 | 17 | 18 | 15 | 14 | 16 | 16 |
| 19 | 16 | 12 | 0 | 18 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| PV SYSTEM SPECIFICATIONS (FEEDER 1) | |
|---|---|
| PV MODULES | 63,050 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 33,416.50 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.253 |
| DC/AC RATIO @ INVERTER | 1.160 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| G | FEEDER CIRCUIT | 3 X 750 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| H | FEEDER CIRCUIT | 3 X 1000 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| I | FEEDER CIRCUIT | 3 X 1250 AL, PVC JACKET DB EPR INSULATION, MV-105 |

NOTES:

1. THIS DRAWING IS PROVIDED FOR PERMIT TO ORES UNDER SECTION 94-C.
2. THIS DRAWING IS FOR CONCEPTUAL USE ONLY AND SHALL NOT BE USED FOR ANY CONTRACTS OR CONSTRUCTION.
3. COLLECTOR SYSTEM CONDUCTOR SIZE AND SPECIFICATIONS TO BE VERIFIED DURING THE DETAILED DESIGN.
4. THE TRANSFORMER SYSTEM IMPEDANCE WILL BE DETERMINED THROUGH SUNGROW. FINAL VALUES TO BE SUBMITTED TO THE UTILITY WHEN AVAILABLE.
5. FINAL FUSE SIZES TBD BY MANUFACTURER.
6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
8. THE TWO DC BUS BARS ARE CONNECTED TOGETHER WHEN 1 MPPT IS SELECTED. ONE MPPT IS STANDARD.
9. OPTIONAL AUX TRANSFORMER SUPPLIED BY MANUFACTURER WITH MULTIPLE SECONDARY OUTPUT WINDINGS.
10. FINAL FUSE SIZES TBD BY MANUFACTURER.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

SHEET NO: PV-E.02.01

REV: 0

PLOTTED: 1/19/2022, 12:09 PM
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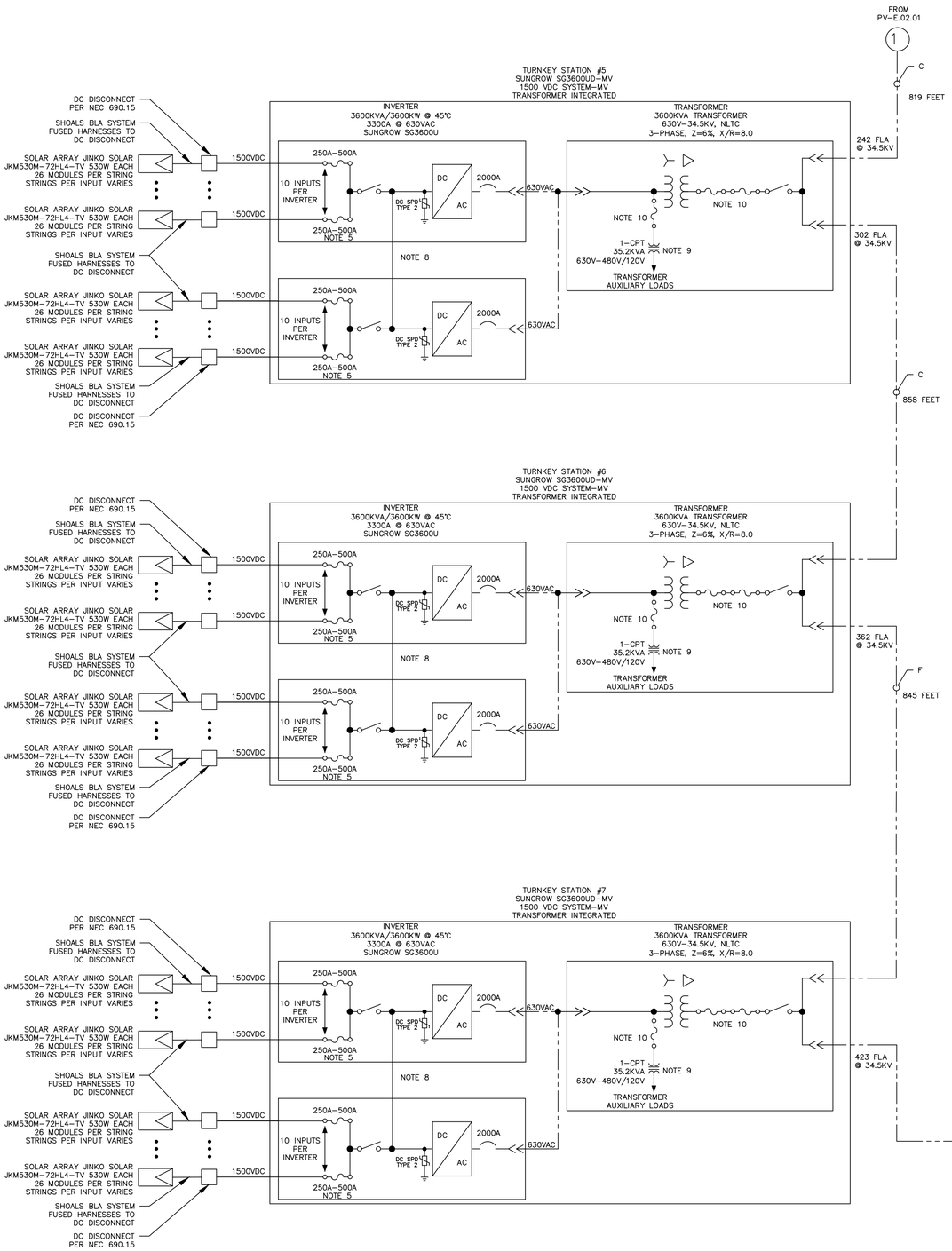
XREFs:

AES Tracking 22534 v210319




| STRINGS PER INPUT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS1 | TS2 | TS3 | TS4 | TS5 | TS6 | TS7 | TS8 |
| 1 | 17 | 16 | 16 | 16 | 15 | 17 | 13 | 14 |
| 2 | 16 | 16 | 16 | 15 | 16 | 18 | 19 | 14 |
| 3 | 17 | 16 | 16 | 16 | 16 | 18 | 20 | 14 |
| 4 | 16 | 18 | 15 | 16 | 16 | 18 | 20 | 16 |
| 5 | 18 | 16 | 18 | 16 | 16 | 16 | 20 | 16 |
| 6 | 18 | 18 | 16 | 18 | 16 | 16 | 20 | 16 |
| 7 | 16 | 17 | 16 | 18 | 16 | 16 | 20 | 16 |
| 8 | 16 | 17 | 16 | 18 | 18 | 16 | 20 | 16 |
| 9 | 16 | 18 | 16 | 16 | 16 | 18 | 19 | 16 |
| 10 | 16 | 18 | 16 | 16 | 16 | 18 | 18 | 16 |
| 11 | 16 | 16 | 16 | 16 | 16 | 15 | 18 | 18 |
| 12 | 16 | 15 | 16 | 16 | 16 | 15 | 18 | 16 |
| 13 | 16 | 15 | 18 | 16 | 14 | 16 | 18 | 16 |
| 14 | 16 | 12 | 15 | 15 | 16 | 16 | 20 | 16 |
| 15 | 18 | 15 | 18 | 16 | 16 | 16 | 20 | 16 |
| 16 | 18 | 15 | 18 | 18 | 16 | 16 | 20 | 16 |
| 17 | 16 | 15 | 18 | 18 | 16 | 13 | 20 | 16 |
| 18 | 16 | 12 | 17 | 18 | 15 | 14 | 16 | 16 |
| 19 | 16 | 12 | 0 | 18 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| PV SYSTEM SPECIFICATIONS (FEEDER 1) | |
|---|---|
| PV MODULES | 63,050 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 33,416.50 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.253 |
| DC/AC RATIO @ INVERTER | 1.160 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| G | FEEDER CIRCUIT | 3 X 750 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| H | FEEDER CIRCUIT | 3 X 1000 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| I | FEEDER CIRCUIT | 3 X 1250 AL, PVC JACKET DB EPR INSULATION, MV-105 |

NOTES:

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5. FINAL FUSE SIZES TBD BY MANUFACTURER.
6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
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C:\Users\aquiroz\Desktop\422208\422208_Electrical One Line Diagram.dwg
XREFs:

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:




KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

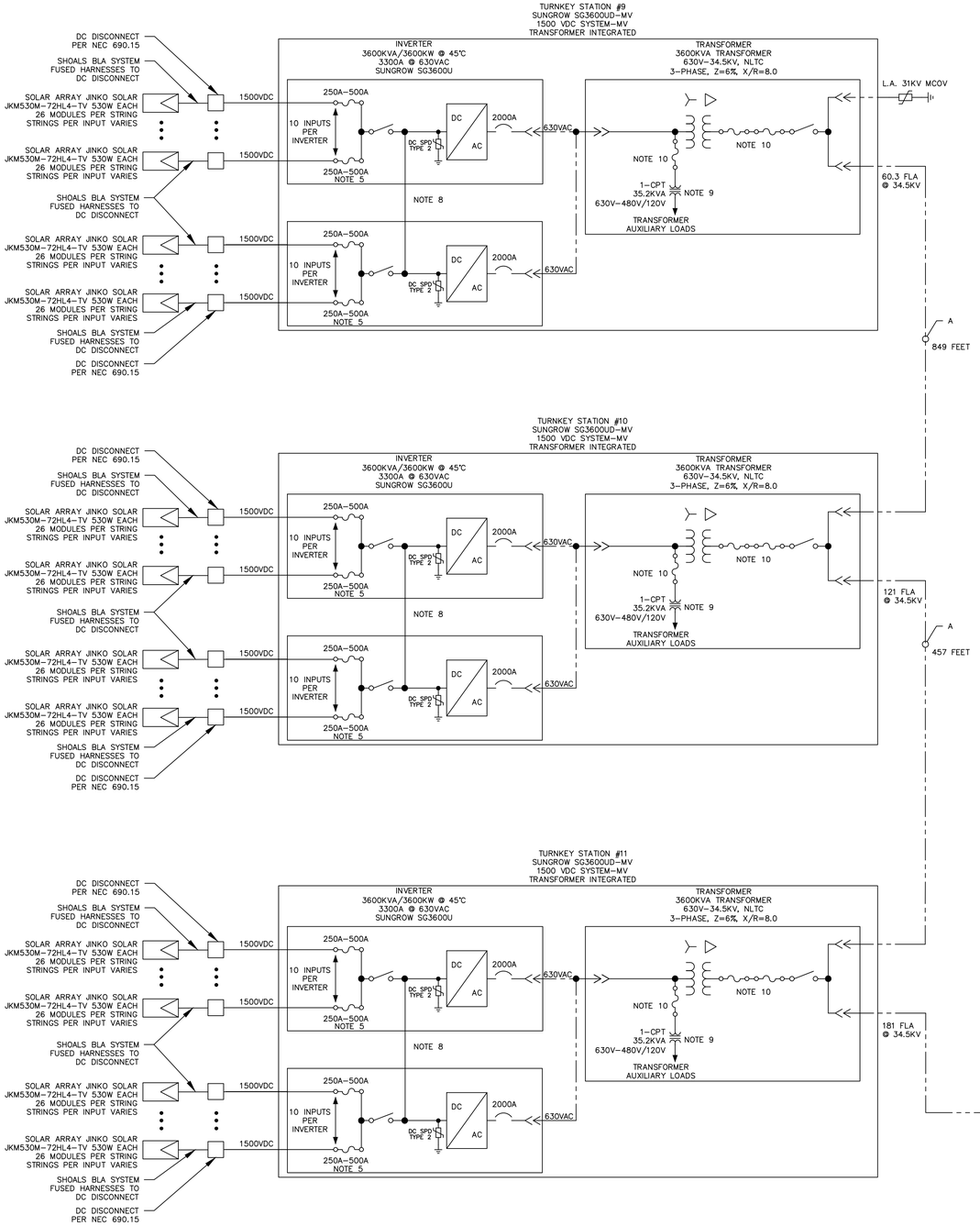
| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

| SHEET NO: | REV: |
|---|---|
| PV-E.02.02 | 0 |

AES Tracking 22534 v210319




| | STRINGS PER INPUT | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS9 | TS10 | TS11 | TS12 | TS13 | TS14 | TS15 | TS16 |
| 1 | 16 | 15 | 16 | 16 | 20 | 18 | 18 | 18 |
| 2 | 16 | 18 | 18 | 16 | 20 | 18 | 18 | 20 |
| 3 | 16 | 18 | 16 | 16 | 20 | 18 | 18 | 20 |
| 4 | 16 | 18 | 16 | 16 | 18 | 18 | 18 | 18 |
| 5 | 18 | 15 | 16 | 16 | 18 | 18 | 16 | 18 |
| 6 | 18 | 15 | 16 | 17 | 18 | 18 | 16 | 18 |
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| 9 | 15 | 16 | 19 | 15 | 18 | 16 | 15 | 18 |
| 10 | 15 | 16 | 19 | 15 | 18 | 16 | 18 | 18 |
| 11 | 15 | 15 | 19 | 16 | 18 | 16 | 17 | 20 |
| 12 | 18 | 16 | 20 | 12 | 18 | 18 | 17 | 16 |
| 13 | 19 | 18 | 16 | 20 | 18 | 18 | 18 | 16 |
| 14 | 19 | 16 | 16 | 20 | 18 | 18 | 18 | 18 |
| 15 | 19 | 16 | 16 | 19 | 18 | 18 | 12 | 18 |
| 16 | 15 | 16 | 16 | 13 | 15 | 18 | 12 | 18 |
| 17 | 15 | 18 | 16 | 14 | 0 | 18 | 18 | 0 |
| 18 | 16 | 18 | 16 | 12 | 0 | 18 | 18 | 0 |
| 19 | 16 | 0 | 0 | 12 | 0 | 18 | 18 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |

| PV SYSTEM SPECIFICATIONS (FEEDER 2) | |
|---|---|
| PV MODULES | 64,194 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 34,022.82 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.276 |
| DC/AC RATIO @ INVERTER | 1.1821 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
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(801) 679 - 3500

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Augusta, ME 04330

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REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
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| | | |
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| | | |
| | | |
| | | |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

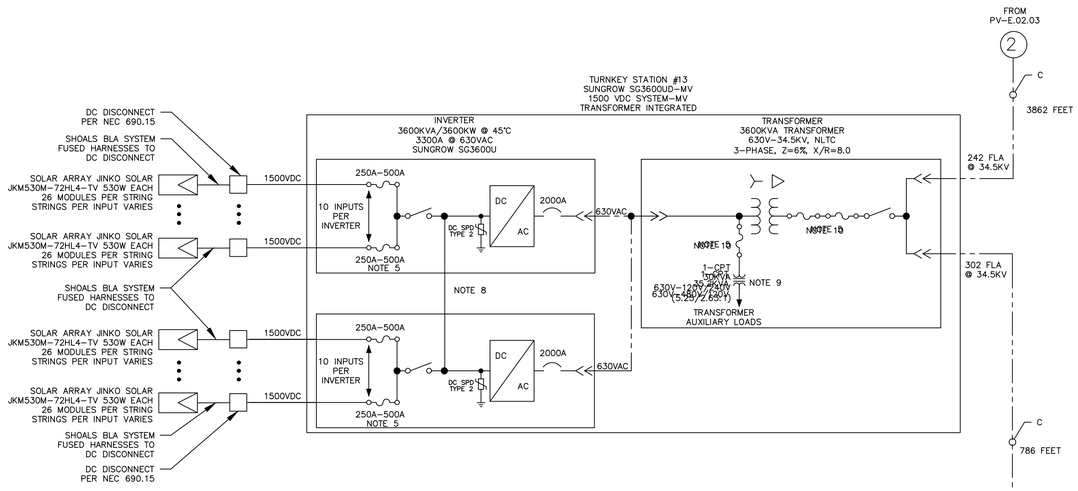
| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

| SHEET NO: | REV: |
|---|---|
| PV-E.02.03 | 0 |

AES filedock 22534 v210319




| STRINGS PER INPUT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS9 | TS10 | TS11 | TS12 | TS13 | TS14 | TS15 | TS16 |
| 1 | 16 | 15 | 16 | 16 | 20 | 18 | 18 | 18 |
| 2 | 16 | 18 | 18 | 16 | 20 | 18 | 18 | 20 |
| 3 | 16 | 18 | 16 | 16 | 20 | 18 | 18 | 20 |
| 4 | 16 | 18 | 16 | 16 | 18 | 18 | 18 | 18 |
| 5 | 18 | 15 | 16 | 16 | 18 | 18 | 16 | 18 |
| 6 | 18 | 15 | 16 | 17 | 18 | 18 | 16 | 18 |
| 7 | 18 | 16 | 16 | 17 | 18 | 18 | 18 | 18 |
| 8 | 17 | 16 | 18 | 15 | 18 | 16 | 18 | 18 |
| 9 | 15 | 16 | 19 | 15 | 18 | 16 | 15 | 18 |
| 10 | 15 | 16 | 19 | 15 | 18 | 16 | 18 | 18 |
| 11 | 15 | 15 | 19 | 16 | 18 | 16 | 17 | 20 |
| 12 | 18 | 16 | 20 | 12 | 18 | 18 | 17 | 16 |
| 13 | 19 | 18 | 16 | 20 | 18 | 18 | 18 | 16 |
| 14 | 19 | 16 | 16 | 20 | 18 | 18 | 18 | 18 |
| 15 | 19 | 16 | 16 | 19 | 18 | 18 | 18 | 18 |
| 16 | 15 | 16 | 16 | 13 | 15 | 18 | 18 | 18 |
| 17 | 15 | 18 | 16 | 14 | 0 | 18 | 18 | 0 |
| 18 | 16 | 18 | 16 | 12 | 0 | 18 | 18 | 0 |
| 19 | 16 | 0 | 0 | 12 | 0 | 18 | 18 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |

| PV SYSTEM SPECIFICATIONS (FEEDER 2) | |
|---|---|
| PV MODULES | 64,194 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 34,022.82 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.276 |
| DC/AC RATIO @ INVERTER | 1.181 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| G | FEEDER CIRCUIT | 3 X 750 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| H | FEEDER CIRCUIT | 3 X 1000 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| I | FEEDER CIRCUIT | 3 X 1250 AL, PVC JACKET DB EPR INSULATION, MV-105 |

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aes
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Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

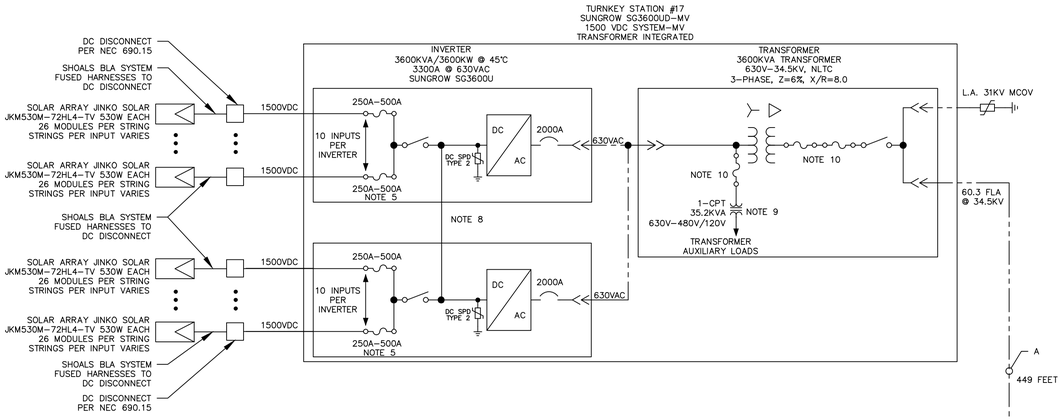
| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

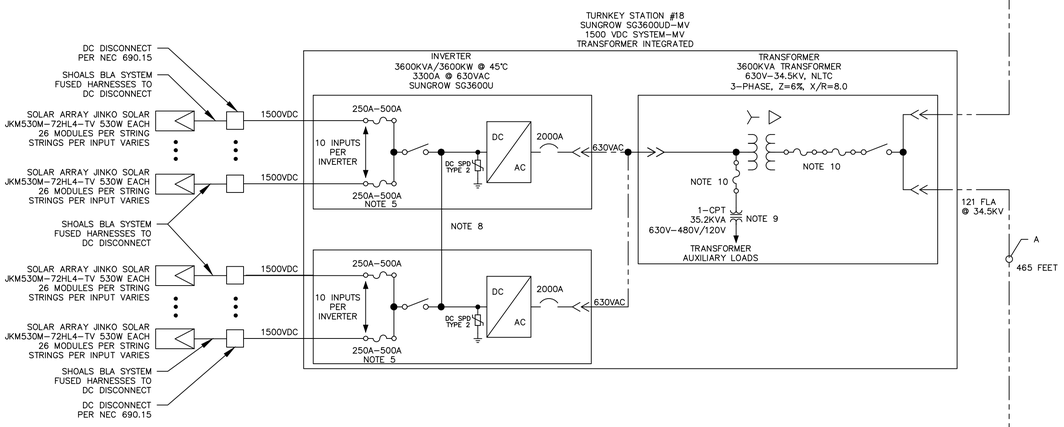
SCALE AT 22" x 34":

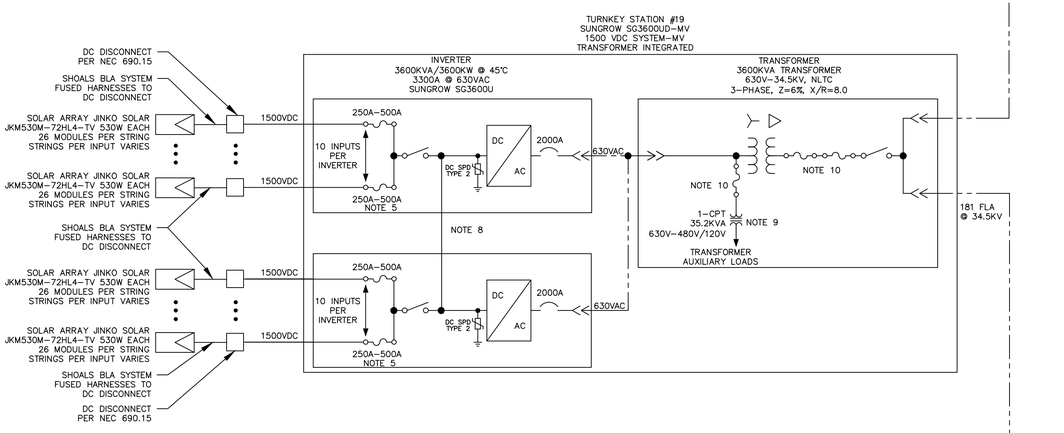
NONE

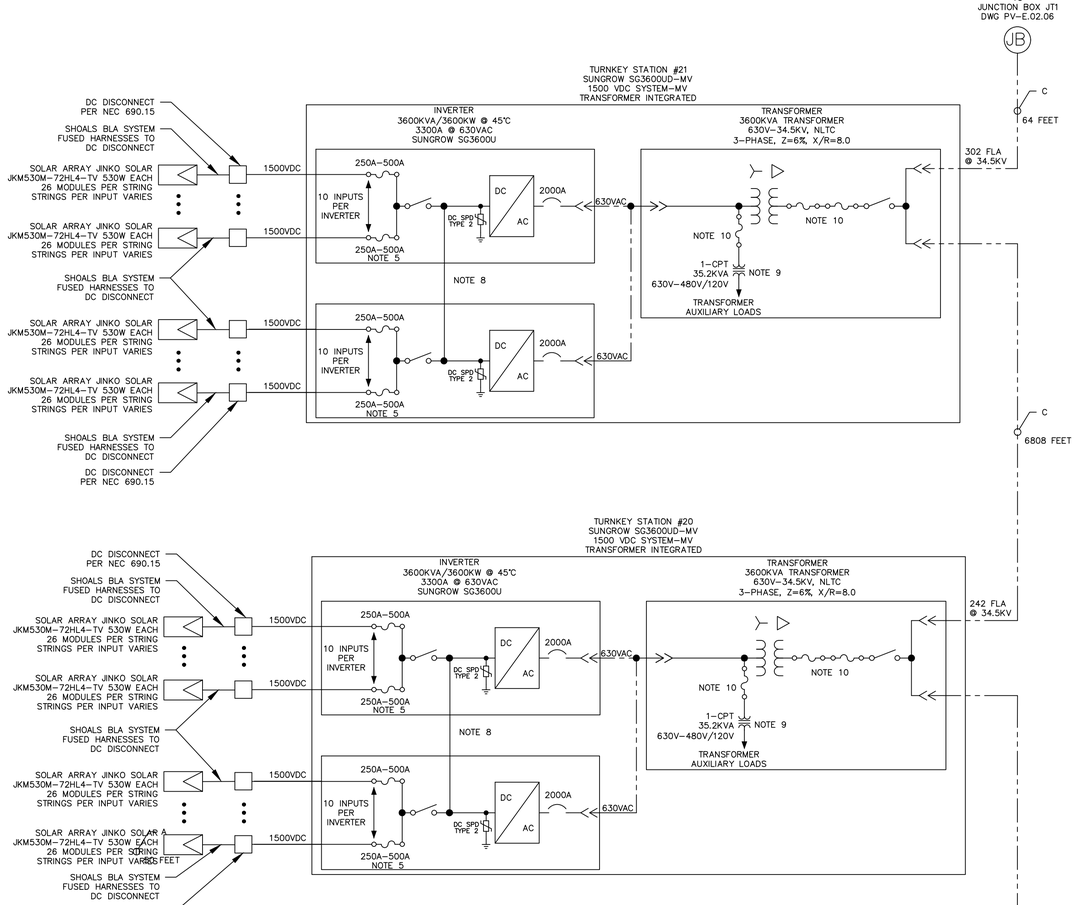
| SHEET NO: | REV: |
|---|---|
| PV-E.02.04 | 0 |

AES Tiledesk 22534 (210319)







| STRINGS PER INPUT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS17 | TS18 | TS19 | TS20 | TS21 | TS22 | TS23 | TS24 |
| 1 | 17 | 20 | 18 | 14 | 16 | 18 | 19 | 12 |
| 2 | 18 | 20 | 16 | 16 | 16 | 16 | 19 | 18 |
| 3 | 18 | 18 | 15 | 16 | 16 | 16 | 19 | 18 |
| 4 | 18 | 18 | 15 | 16 | 16 | 16 | 19 | 17 |
| 5 | 19 | 18 | 15 | 15 | 16 | 16 | 19 | 17 |
| 6 | 19 | 18 | 18 | 17 | 16 | 16 | 19 | 18 |
| 7 | 18 | 18 | 18 | 16 | 18 | 16 | 16 | 18 |
| 8 | 18 | 17 | 20 | 16 | 18 | 16 | 15 | 17 |
| 9 | 19 | 18 | 20 | 16 | 18 | 16 | 19 | 15 |
| 10 | 19 | 18 | 18 | 19 | 18 | 16 | 19 | 15 |
| 11 | 19 | 18 | 20 | 20 | 18 | 16 | 19 | 14 |
| 12 | 19 | 18 | 18 | 18 | 18 | 16 | 19 | 15 |
| 13 | 18 | 18 | 18 | 18 | 18 | 14 | 19 | 15 |
| 14 | 18 | 18 | 18 | 20 | 18 | 16 | 19 | 17 |
| 15 | 18 | 18 | 18 | 20 | 18 | 16 | 19 | 17 |
| 16 | 18 | 18 | 18 | 20 | 18 | 17 | 19 | 17 |
| 17 | 18 | 18 | 18 | 18 | 16 | 17 | 19 | 17 |
| 18 | 0 | 0 | 18 | 18 | 16 | 18 | 19 | 14 |
| 19 | 0 | 0 | 18 | 18 | 15 | 18 | 19 | 14 |
| 20 | 0 | 0 | 0 | 18 | 0 | 16 | 19 | 13 |

| PV SYSTEM SPECIFICATIONS (FEEDER 3) | |
|---|---|
| PV MODULES | 68,796 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 36,461.88 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.367 |
| DC/AC RATIO @ INVERTER | 1.266 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
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KEY PLAN:

REVISIONS:

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| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

| SHEET NO: | REV: |
|---|---|
| PV-E.02.05 | 0 |

AES Tiledesk 22534 v210319

| | STRINGS PER INPUT | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS17 | TS18 | TS19 | TS20 | TS21 | TS22 | TS23 | TS24 |
| 1 | 17 | 20 | 18 | 14 | 16 | 18 | 19 | 12 |
| 2 | 18 | 20 | 16 | 16 | 16 | 16 | 19 | 18 |
| 3 | 18 | 18 | 15 | 16 | 16 | 16 | 19 | 18 |
| 4 | 18 | 18 | 15 | 16 | 16 | 16 | 19 | 17 |
| 5 | 19 | 18 | 15 | 15 | 16 | 16 | 19 | 17 |
| 6 | 19 | 18 | 18 | 17 | 16 | 16 | 19 | 18 |
| 7 | 18 | 18 | 18 | 16 | 18 | 16 | 16 | 18 |
| 8 | 18 | 17 | 20 | 16 | 18 | 16 | 15 | 17 |
| 9 | 19 | 18 | 20 | 16 | 18 | 16 | 19 | 15 |
| 10 | 19 | 18 | 18 | 19 | 18 | 16 | 19 | 15 |
| 11 | 19 | 18 | 20 | 20 | 18 | 16 | 19 | 14 |
| 12 | 19 | 18 | 18 | 18 | 18 | 16 | 19 | 15 |
| 13 | 18 | 18 | 18 | 18 | 18 | 14 | 19 | 15 |
| 14 | 18 | 18 | 18 | 20 | 18 | 16 | 19 | 17 |
| 15 | 18 | 18 | 18 | 20 | 18 | 16 | 19 | 17 |
| 16 | 18 | 18 | 18 | 20 | 18 | 17 | 19 | 17 |
| 17 | 18 | 18 | 18 | 18 | 16 | 17 | 19 | 17 |
| 18 | 0 | 0 | 18 | 18 | 16 | 18 | 19 | 14 |
| 19 | 0 | 0 | 18 | 18 | 15 | 18 | 19 | 14 |
| 20 | 0 | 0 | 0 | 18 | 0 | 16 | 19 | 13 |

| PV SYSTEM SPECIFICATIONS (FEEDER 3) | |
|---|---|
| PV MODULES | 68,796 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 36,461.88 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.367 |
| DC/AC RATIO @ INVERTER | 1.266 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| G | FEEDER CIRCUIT | 3 X 750 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| H | FEEDER CIRCUIT | 3 X 1000 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| I | FEEDER CIRCUIT | 3 X 1250 AL, PVC JACKET DB EPR INSULATION, MV-105 |

NOTES:

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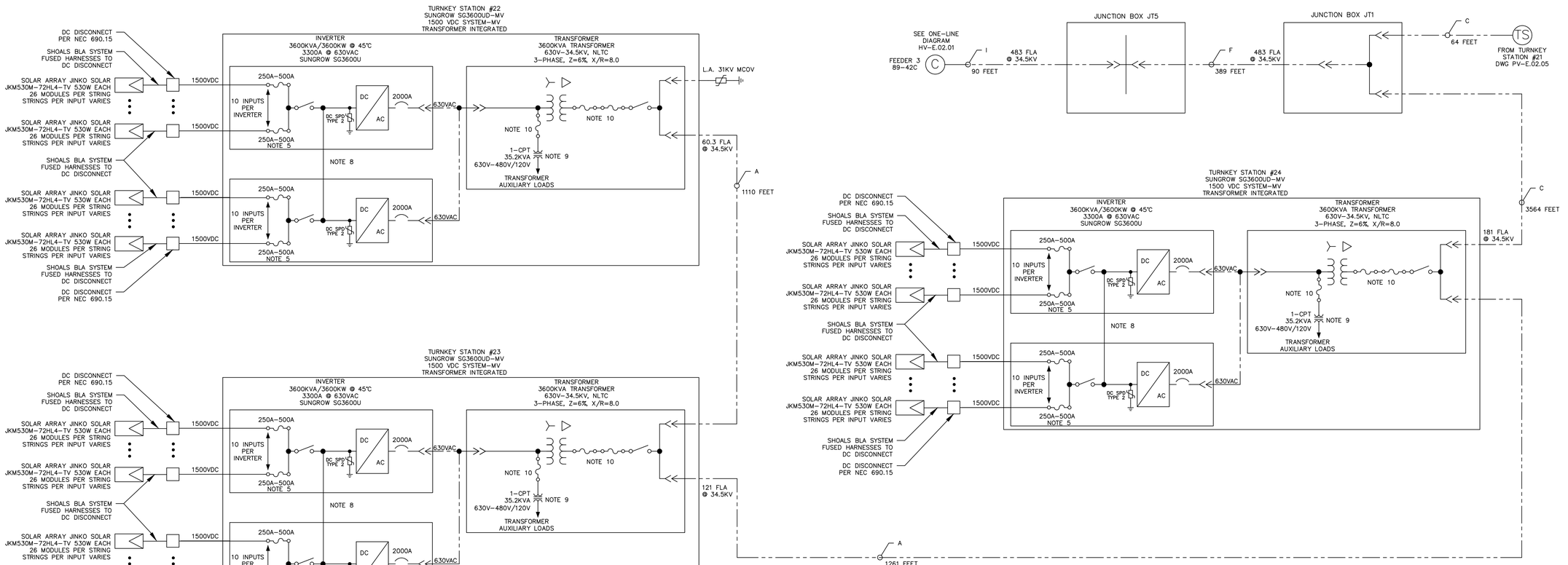
4. THE TRANSFORMER SYSTEM IMPEDANCE WILL BE DETERMINED THROUGH SUNGROW. FINAL VALUES TO BE SUBMITTED TO THE UTILITY WHEN AVAILABLE.
5. FINAL FUSE SIZES TBD BY MANUFACTURER.
6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
8. THE TWO DC BUS BARS ARE CONNECTED TOGETHER WHEN 1 MPPT IS SELECTED. ONE MPPT IS STANDARD.
9. OPTIONAL AUX TRANSFORMER SUPPLIED BY MANUFACTURER WITH MULTIPLE SECONDARY OUTPUT WINDINGS.
10. FINAL FUSE SIZES TBD BY MANUFACTURER.




UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PRELIMINARY
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C:\Users\aquiroz\Desktop\422208\PV\422208_Electrical One Line Diagram.dwg
XREFs:


aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK · CHARLES PASCALE · LICENSED PROFESSIONAL ENGINEER · 072988

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

| SHEET NO: | REV: |
|---|---|
| PV-E.02.06 | 0 |

AES Tiledesk 22534 (210319)

| | STRINGS PER INPUT | | | | | |
|---|---|---|---|---|---|---|
| INPUT | TS25 | TS26 | TS27 | TS28 | TS29 | TS30 |
| 1 | 15 | 16 | 18 | 16 | 16 | 18 |
| 2 | 15 | 16 | 18 | 16 | 16 | 18 |
| 3 | 16 | 16 | 18 | 16 | 13 | 18 |
| 4 | 16 | 16 | 19 | 16 | 13 | 18 |
| 5 | 15 | 16 | 19 | 16 | 13 | 18 |
| 6 | 15 | 16 | 19 | 16 | 13 | 18 |
| 7 | 15 | 16 | 19 | 16 | 13 | 18 |
| 8 | 15 | 16 | 19 | 16 | 13 | 18 |
| 9 | 15 | 16 | 19 | 16 | 13 | 18 |
| 10 | 15 | 16 | 19 | 16 | 13 | 18 |
| 11 | 15 | 18 | 19 | 16 | 13 | 18 |
| 12 | 16 | 18 | 15 | 16 | 13 | 18 |
| 13 | 16 | 14 | 15 | 16 | 13 | 18 |
| 14 | 16 | 18 | 16 | 16 | 13 | 18 |
| 15 | 16 | 13 | 15 | 18 | 13 | 18 |
| 16 | 16 | 13 | 18 | 18 | 13 | 18 |
| 17 | 16 | 16 | 18 | 18 | 15 | 18 |
| 18 | 17 | 16 | 18 | 0 | 15 | 18 |
| 19 | 17 | 16 | 18 | 0 | 15 | 18 |
| 20 | 17 | 16 | 18 | 0 | 15 | 18 |

| PV SYSTEM SPECIFICATIONS (FEEDER 4) | |
|---|---|
| PV MODULES | 49,426 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 26,195.78 KW |
| INVERTERS | (6) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 20,000.00 KW |
| DC/AC RATIO @ POI | 1.310 |
| DC/AC RATIO @ INVERTER | 1.213 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| G | FEEDER CIRCUIT | 3 X 750 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| H | FEEDER CIRCUIT | 3 X 1000 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| I | FEEDER CIRCUIT | 3 X 1250 AL, PVC JACKET DB EPR INSULATION, MV-105 |

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5. FINAL FUSE SIZES TBD BY MANUFACTURER.
6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
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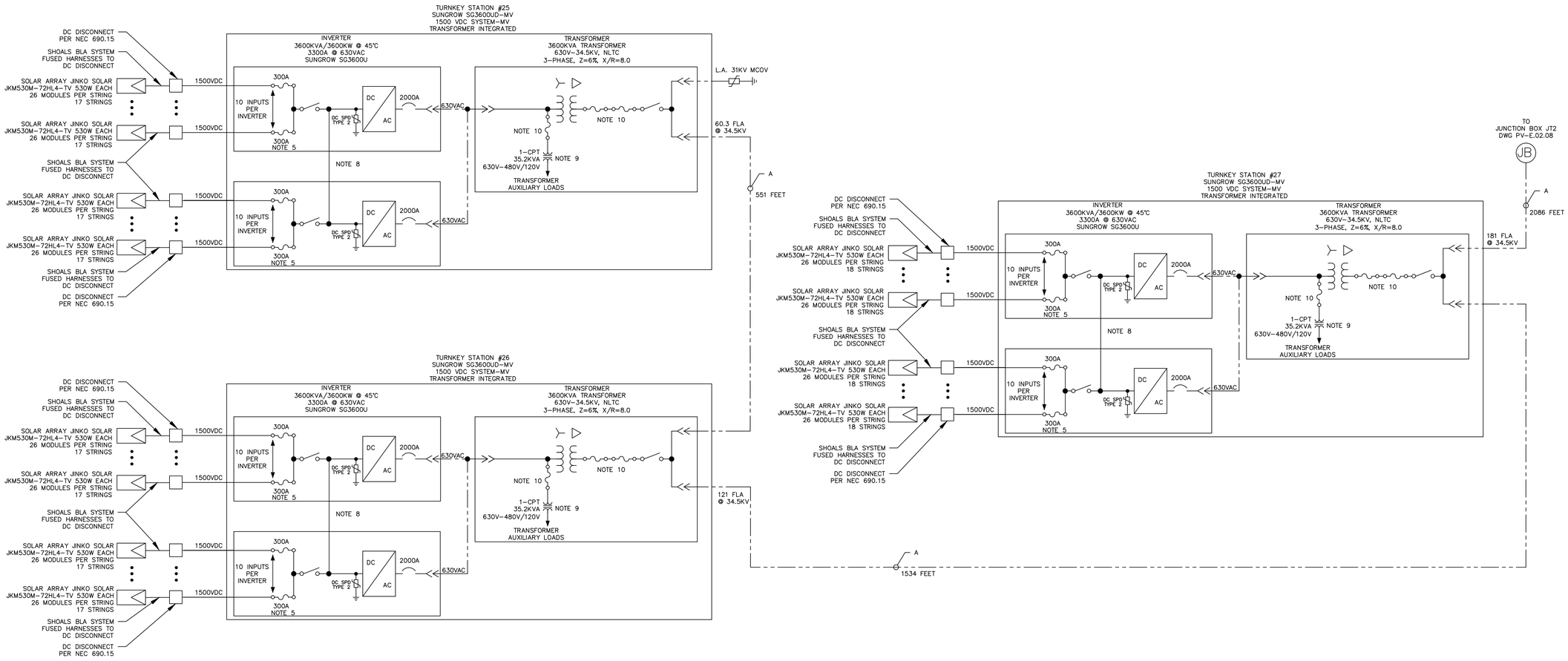


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NOT FOR CONSTRUCTION

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Drawing Name: P:\422208\DWG\422209_Electrical One Line Diagram.dwg
XREFs:


aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

| SHEET NO: | REV: |
|---|---|
| PV-E.02.07 | 0 |

AES Tilebock 22534 r210319

| | STRINGS PER INPUT | | | | | |
|---|---|---|---|---|---|---|
| INPUT | TS25 | TS26 | TS27 | TS28 | TS29 | TS30 |
| 1 | 15 | 16 | 18 | 16 | 16 | 18 |
| 2 | 15 | 16 | 18 | 16 | 16 | 18 |
| 3 | 16 | 16 | 18 | 16 | 13 | 18 |
| 4 | 16 | 16 | 19 | 16 | 13 | 18 |
| 5 | 15 | 16 | 19 | 16 | 13 | 18 |
| 6 | 15 | 16 | 19 | 16 | 13 | 18 |
| 7 | 15 | 16 | 19 | 16 | 13 | 18 |
| 8 | 15 | 16 | 19 | 16 | 13 | 18 |
| 9 | 15 | 16 | 19 | 16 | 13 | 18 |
| 10 | 15 | 16 | 19 | 16 | 13 | 18 |
| 11 | 15 | 18 | 19 | 16 | 13 | 18 |
| 12 | 16 | 18 | 15 | 16 | 13 | 18 |
| 13 | 16 | 14 | 15 | 16 | 13 | 18 |
| 14 | 16 | 18 | 16 | 16 | 13 | 18 |
| 15 | 16 | 13 | 15 | 18 | 13 | 18 |
| 16 | 16 | 13 | 18 | 18 | 13 | 18 |
| 17 | 16 | 16 | 18 | 18 | 15 | 18 |
| 18 | 17 | 16 | 18 | 0 | 15 | 18 |
| 19 | 17 | 16 | 18 | 0 | 15 | 18 |
| 20 | 17 | 16 | 18 | 0 | 15 | 18 |

| PV SYSTEM SPECIFICATIONS (FEEDER 4) | |
|---|---|
| PV MODULES | 49,426 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 26,195.78 KW |
| INVERTERS | (6) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 20,000.00 KW |
| DC/AC RATIO @ POI | 1.310 |
| DC/AC RATIO @ INVERTER | 1.213 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

| CONDUIT & WIRE SCHEDULE | | |
|---|---|---|
| NO. | DESCRIPTION | CONDUCTORS |
| A | FEEDER CIRCUIT | 3 X 1/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| B | FEEDER CIRCUIT | 3 X 2/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| C | FEEDER CIRCUIT | 3 X 4/0 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| D | FEEDER CIRCUIT | 3 X 250 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| E | FEEDER CIRCUIT | 3 X 350 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| F | FEEDER CIRCUIT | 3 X 500 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| G | FEEDER CIRCUIT | 3 X 750 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| H | FEEDER CIRCUIT | 3 X 1000 AL, PVC JACKET DB EPR INSULATION, MV-105 |
| I | FEEDER CIRCUIT | 3 X 1250 AL, PVC JACKET DB EPR INSULATION, MV-105 |

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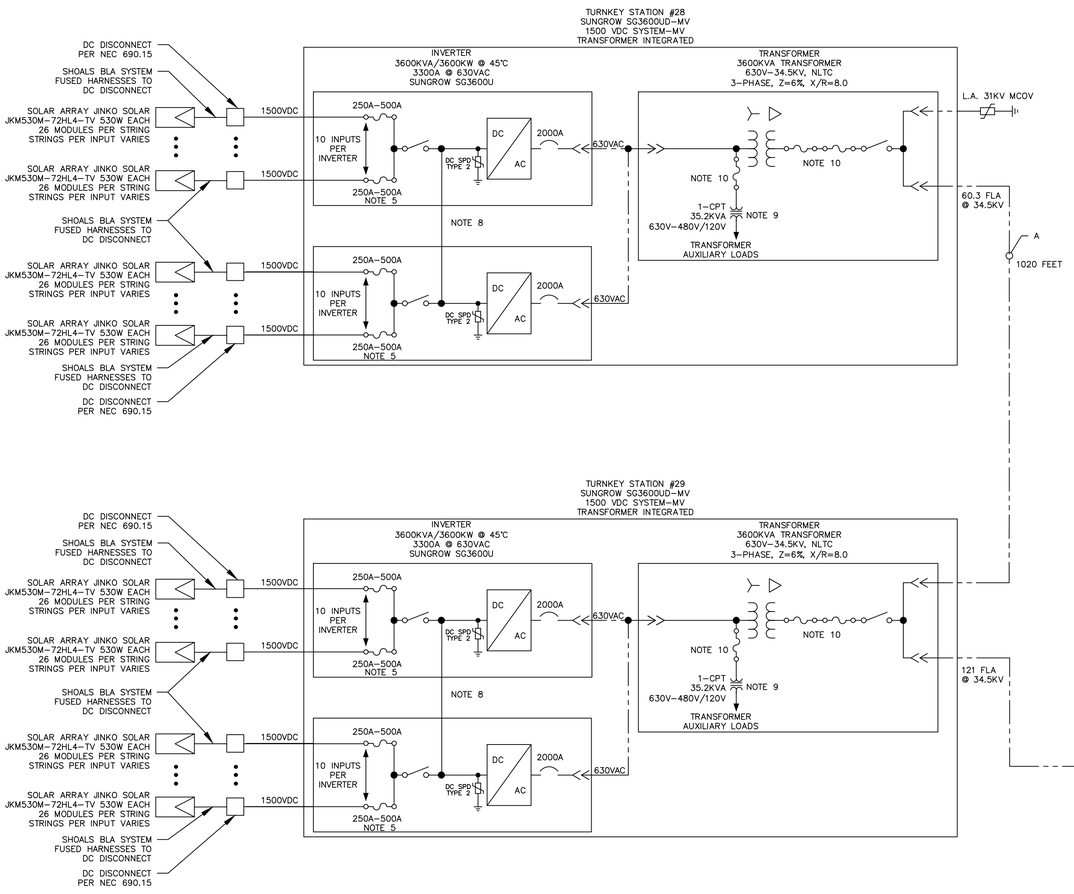
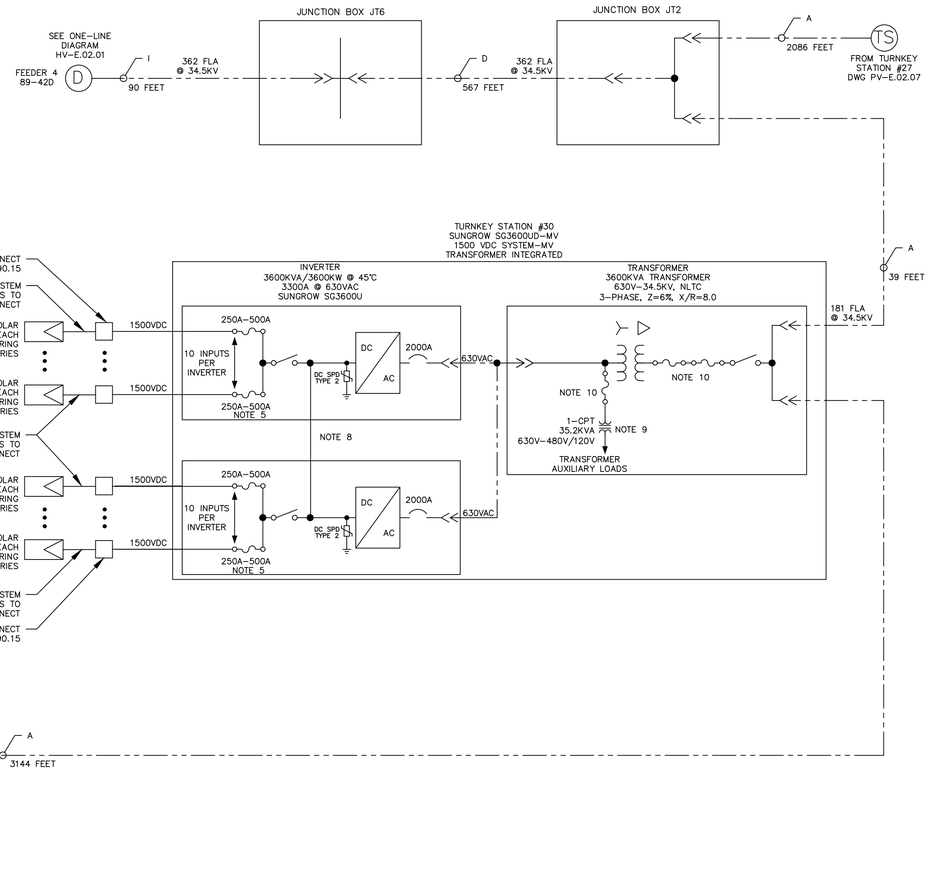
10. FINAL FUSE SIZES TBD BY MANUFACTURER.







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Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL ONE LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

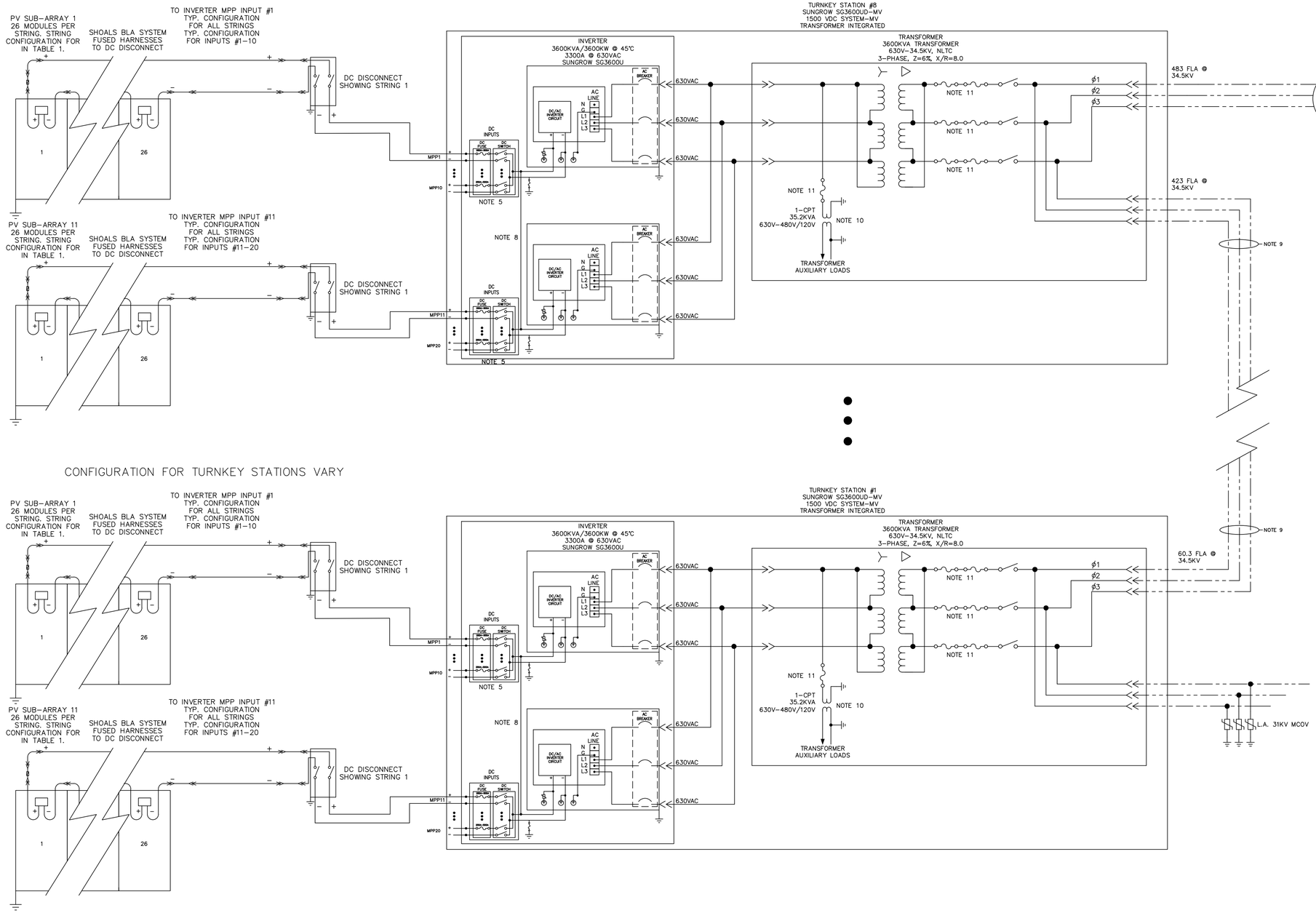
| SHEET NO: | REV: |
|---|---|
| PV-E.02.08 | 0 |

AES Tiledesk 22534 v210319

| PV SYSTEM SPECIFICATIONS (FEEDER 1) | |
|---|---|
| PV MODULES | 63,050 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 33,416.50 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.253 |
| DC/AC RATIO @ INVERTER | 1.160 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

CONFIGURATION FOR TURNKEY STATIONS VARY







NOTES:

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4. THE TRANSFORMER SYSTEM IMPEDANCE WILL BE DETERMINED THROUGH SUNGROW. FINAL VALUES TO BE SUBMITTED TO THE UTILITY WHEN AVAILABLE.
5. FUSE SIZE VARIES BASED ON NUMBER OF STRINGS CONNECTED. FINAL FUSE SIZE TO BE CONFIRMED AT THE ISSUING OF THE CONSTRUCTION DRAWING SET.
6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
8. THE TWO DC BUS BARS ARE CONNECTED TOGETHER WHEN 1 MPPT IS SELECTED. ONE MPPT IS STANDARD.
9. CABLE SIZING AND COLLECTION LENGTHS CAN BE FOUND IN DWG PV-E.02.13. FEEDER 1 CABLE SIZES RANGE FROM 1/0 TO 1250.
10. OPTIONAL AUX TRANSFORMER SUPPLIED BY MANUFACTURER WITH MULTIPLE SECONDARY OUTPUT WINDINGS.
11. FINAL FUSE SIZES TBD BY MANUFACTURER.

| FEEDER 1 TURNKEY STATION (TS) PV STRINGING | | | | |
|---|---|---|---|---|
| TURNKEY STATION (TS) | PV SERIES MODULES | INPUT NUMBER | PARALLEL STRINGS | PV MODULES PER TS |
| 1 | 26 | 20 | SEE TABLE 1 | 8,164 |
| 2 | 26 | 20 | SEE TABLE 1 | 7,722 |
| 3 | 26 | 20 | SEE TABLE 1 | 7,722 |
| 4 | 26 | 20 | SEE TABLE 1 | 8,216 |
| 5 | 26 | 20 | SEE TABLE 1 | 7,436 |
| 6 | 26 | 20 | SEE TABLE 1 | 7,592 |
| 7 | 26 | 20 | SEE TABLE 1 | 8,814 |
| 8 | 26 | 20 | SEE TABLE 1 | 8,424 |
| | | | TOTAL PV MODULES FOR TS ON FEEDER 1 | 64,090 |

| | TABLE 1 STRINGS PER INPUT | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INPUT | TS1 | TS2 | TS3 | TS4 | TS5 | TS6 | TS7 | TS8 |
| 1 | 17 | 16 | 16 | 16 | 15 | 17 | 13 | 14 |
| 2 | 16 | 16 | 16 | 15 | 16 | 18 | 19 | 14 |
| 3 | 17 | 16 | 16 | 16 | 16 | 18 | 20 | 14 |
| 4 | 16 | 18 | 15 | 16 | 16 | 18 | 20 | 16 |
| 5 | 18 | 16 | 18 | 16 | 16 | 16 | 20 | 16 |
| 6 | 18 | 18 | 16 | 18 | 16 | 16 | 20 | 16 |
| 7 | 16 | 17 | 16 | 18 | 16 | 16 | 20 | 16 |
| 8 | 16 | 17 | 16 | 18 | 18 | 16 | 20 | 16 |
| 9 | 16 | 18 | 16 | 16 | 16 | 18 | 19 | 16 |
| 10 | 16 | 18 | 16 | 16 | 16 | 18 | 18 | 16 |
| 11 | 16 | 16 | 16 | 16 | 16 | 15 | 18 | 18 |
| 12 | 16 | 15 | 16 | 16 | 16 | 15 | 18 | 16 |
| 13 | 16 | 15 | 18 | 16 | 14 | 16 | 18 | 16 |
| 14 | 16 | 12 | 15 | 15 | 16 | 16 | 20 | 16 |
| 15 | 18 | 15 | 18 | 16 | 16 | 16 | 20 | 16 |
| 16 | 18 | 15 | 18 | 18 | 16 | 16 | 20 | 16 |
| 17 | 16 | 15 | 18 | 18 | 16 | 13 | 20 | 16 |
| 18 | 16 | 12 | 17 | 18 | 15 | 14 | 16 | 16 |
| 19 | 16 | 12 | 0 | 18 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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C:\Users\aquiroz\Desktop\422208\DWG\422208_Electrical Three-Line Diagram.dwg
XREFs:

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

TRC
249 Western Avenue
Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL THREE-LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

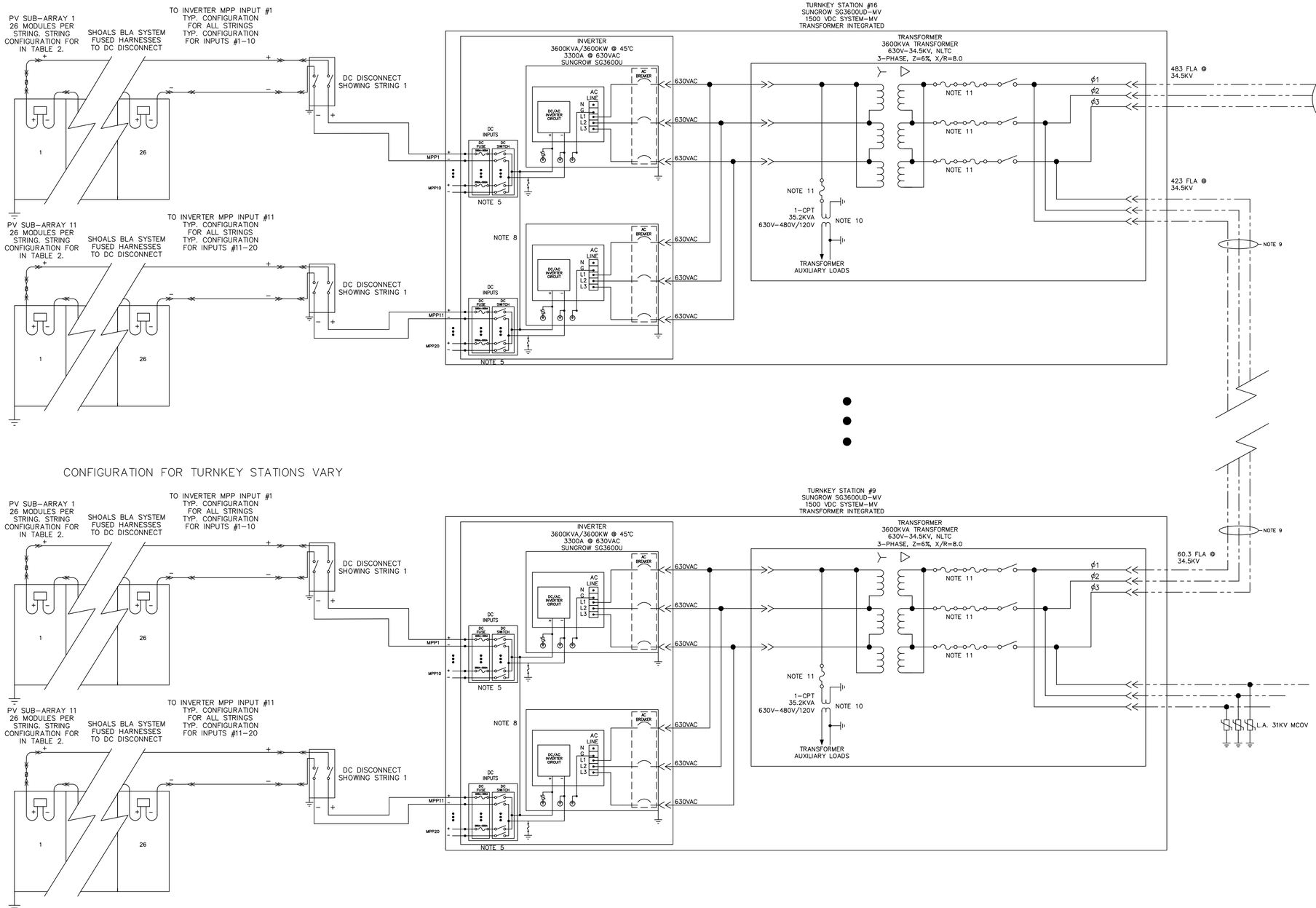
| SHEET NO: | REV: |
|---|---|
| PV-E.02.09 | 0 |

AES Tfdocs 22534 r210319

| PV SYSTEM SPECIFICATIONS (FEEDER 2) | |
|---|---|
| PV MODULES | 64,194 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 34,022.82 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.276 |
| DC/AC RATIO @ INVERTER | 1.1821 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

CONFIGURATION FOR TURNKEY STATIONS VARY

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3. COLLECTOR SYSTEM CONDUCTOR SIZE AND SPECIFICATIONS TO BE VERIFIED DURING THE DETAILED DESIGN.
4. THE TRANSFORMER SYSTEM IMPEDANCE WILL BE DETERMINED THROUGH SUNGROW. FINAL VALUES TO BE SUBMITTED TO THE UTILITY WHEN AVAILABLE.
5. FUSE SIZE VARIES BASED ON NUMBER OF STRINGS CONNECTED. FINAL FUSE SIZE TO BE CONFIRMED AT THE ISSUING OF THE CONSTRUCTION DRAWING SET.
6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
8. THE TWO DC BUS BARS ARE CONNECTED TOGETHER WHEN 1 MPPT IS SELECTED. ONE MPPT IS STANDARD.
9. CABLE SIZING AND COLLECTION LENGTHS CAN BE FOUND IN DWG PV-E.02.13. FEEDER 2 CABLE SIZES RANGE FROM 1/0 TO 1250.
10. OPTIONAL AUX TRANSFORMER SUPPLIED BY MANUFACTURER WITH MULTIPLE SECONDARY OUTPUT WINDINGS.
11. FINAL FUSE SIZES TBD BY MANUFACTURER.

| FEEDER 2 TURNKEY STATION (TS) PV STRINGING | | | | |
|---|---|---|---|---|
| TURNKEY STATION (TS) | PV SERIES MODULES | INPUT NUMBER | PARALLEL STRINGS | PV MODULES PER TS |
| 9 | 26 | 20 | SEE TABLE 2 | 8,242 |
| 10 | 26 | 20 | SEE TABLE 2 | 7,696 |
| 11 | 26 | 20 | SEE TABLE 2 | 7,930 |
| 12 | 26 | 20 | SEE TABLE 2 | 7,722 |
| 13 | 26 | 20 | SEE TABLE 2 | 7,566 |
| 14 | 26 | 20 | SEE TABLE 2 | 8,684 |
| 15 | 26 | 20 | SEE TABLE 2 | 8,814 |
| 16 | 26 | 20 | SEE TABLE 2 | 7,540 |
| | | | TOTAL PV MODULES FOR TS ON FEEDER 2 | 64,194 |

TABLE 2
STRINGS PER INPUT

| INPUT | TS9 | TS10 | TS11 | TS12 | TS13 | TS14 | TS15 | TS16 |
|---|---|---|---|---|---|---|---|---|
| 1 | 16 | 15 | 16 | 16 | 20 | 18 | 18 | 18 |
| 2 | 16 | 18 | 18 | 16 | 20 | 18 | 18 | 20 |
| 3 | 16 | 18 | 16 | 16 | 20 | 18 | 18 | 20 |
| 4 | 16 | 18 | 16 | 16 | 18 | 18 | 18 | 18 |
| 5 | 18 | 15 | 16 | 16 | 18 | 18 | 16 | 18 |
| 6 | 18 | 15 | 16 | 17 | 18 | 18 | 16 | 18 |
| 7 | 18 | 16 | 16 | 17 | 18 | 18 | 18 | 18 |
| 8 | 17 | 16 | 18 | 15 | 18 | 16 | 18 | 18 |
| 9 | 15 | 16 | 19 | 15 | 18 | 16 | 15 | 18 |
| 10 | 15 | 16 | 19 | 15 | 18 | 16 | 18 | 18 |
| 11 | 15 | 15 | 19 | 16 | 18 | 16 | 17 | 20 |
| 12 | 18 | 16 | 20 | 12 | 18 | 18 | 17 | 16 |
| 13 | 19 | 18 | 16 | 20 | 18 | 18 | 18 | 16 |
| 14 | 19 | 16 | 16 | 20 | 18 | 18 | 18 | 18 |
| 15 | 19 | 16 | 16 | 19 | 18 | 18 | 12 | 18 |
| 16 | 15 | 16 | 16 | 13 | 15 | 18 | 12 | 18 |
| 17 | 15 | 18 | 16 | 14 | 0 | 18 | 18 | 0 |
| 18 | 16 | 18 | 16 | 12 | 0 | 18 | 18 | 0 |
| 19 | 16 | 0 | 0 | 12 | 0 | 18 | 18 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |

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C:\Users\aquiroz\Desktop\422208\DWG\422209_Electrical Three-Line Diagram.dwg
XREFs:

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2180 South 1300 East, Suite 600
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(801) 679 - 3500

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STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

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|---|---|---|
| 0 | 01/19/2022 | DESIGN DRAWINGS |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL THREE-LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

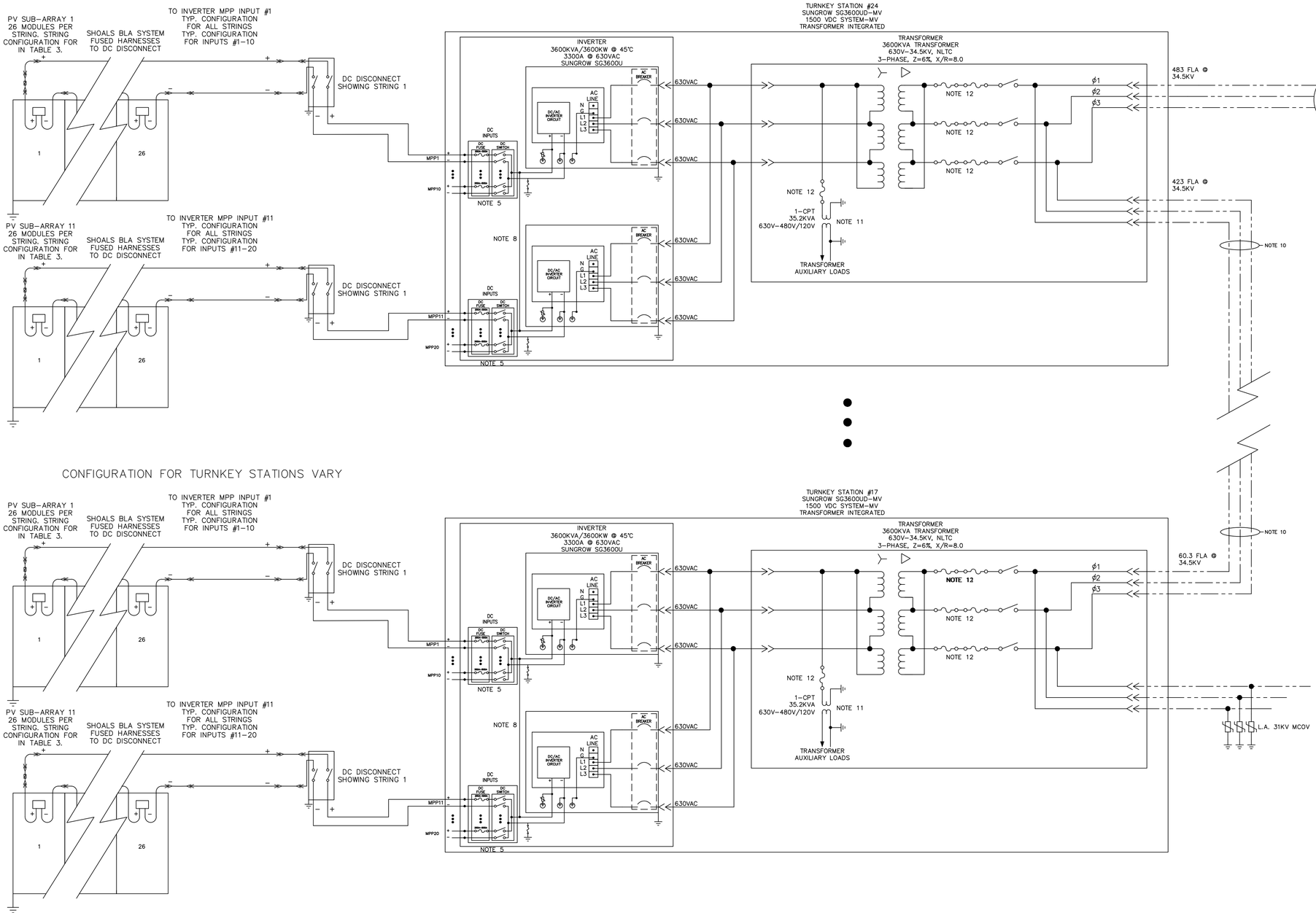
| SHEET NO: | REV: |
|---|---|
| PV-E.02.10 | 0 |

AES Tiledesk 22534 v210319

| PV SYSTEM SPECIFICATIONS (FEEDER 3) | |
|---|---|
| PV MODULES | 68,796 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 36,461.88 KW |
| INVERTERS | (8) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 26,666.67 KW |
| DC/AC RATIO @ POI | 1.367 |
| DC/AC RATIO @ INVERTER | 1.266 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

CONFIGURATION FOR TURNKEY STATIONS VARY

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6. INVERTERS ARE CERTIFIED PER THE REQUIREMENTS OF UL 1741 SA AS A GRID SUPPORT UTILITY INVERTER AND HENCE MEETS THE UTILITY VOLTAGE AND FREQUENCY RIDE THROUGH REQUIREMENTS.
7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
8. THE TWO DC BUS BARS ARE CONNECTED TOGETHER WHEN 1 MPPT IS SELECTED. ONE MPPT IS STANDARD.
9. JUNCTION BOX #1 LOCATED PRIOR TO COLLECTOR SUBSTATION TO COMBINE TS17-21 AND TS22-24. SEE DWG. PV-E.02.13 FOR FEEDER BREAKDOWN.
10. CABLE SIZING AND COLLECTION LENGTHS CAN BE FOUND IN DWG PV-E.02.13. FEEDER 3 CABLE SIZES RANGE FROM 1/0 TO 1250.
11. OPTIONAL AUX TRANSFORMER SUPPLIED BY MANUFACTURER WITH MULTIPLE SECONDARY OUTPUT WINDINGS.
12. FINAL FUSE SIZES TBD BY MANUFACTURER.

| FEEDER 3 TURNKEY STATION (TS) PV STRINGING | | | | |
|---|---|---|---|---|
| TURNKEY STATION (TS) | PV SERIES MODULES | INPUT NUMBER | PARALLEL STRINGS | PV MODULES PER TS |
| 17 | 26 | 20 | SEE TABLE 3 | 8,086 |
| 18 | 26 | 20 | SEE TABLE 3 | 8,034 |
| 19 | 26 | 20 | SEE TABLE 3 | 8,762 |
| 20 | 26 | 20 | SEE TABLE 3 | 8,866 |
| 21 | 26 | 20 | SEE TABLE 3 | 8,398 |
| 22 | 26 | 20 | SEE TABLE 3 | 8,476 |
| 23 | 26 | 20 | SEE TABLE 3 | 9,698 |
| 24 | 26 | 20 | SEE TABLE 3 | 8,268 |
| | | | TOTAL PV MODULES FOR TS ON FEEDER 3 | 68,588 |

| TABLE 3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | STRINGS PER INPUT | | | | | | | |
| INPUT | TS17 | TS18 | TS19 | TS20 | TS21 | TS22 | TS23 | TS24 |
| 1 | 17 | 20 | 18 | 14 | 16 | 18 | 19 | 12 |
| 2 | 18 | 20 | 16 | 16 | 16 | 16 | 19 | 18 |
| 3 | 18 | 18 | 15 | 16 | 16 | 16 | 19 | 18 |
| 4 | 18 | 18 | 15 | 16 | 16 | 16 | 19 | 17 |
| 5 | 19 | 18 | 15 | 15 | 16 | 16 | 19 | 17 |
| 6 | 19 | 18 | 18 | 17 | 16 | 16 | 19 | 18 |
| 7 | 18 | 18 | 18 | 16 | 18 | 16 | 16 | 18 |
| 8 | 18 | 17 | 20 | 16 | 18 | 16 | 15 | 17 |
| 9 | 19 | 18 | 20 | 16 | 18 | 16 | 19 | 15 |
| 10 | 19 | 18 | 18 | 19 | 18 | 16 | 19 | 15 |
| 11 | 19 | 18 | 20 | 20 | 18 | 16 | 19 | 14 |
| 12 | 19 | 18 | 18 | 18 | 18 | 16 | 19 | 15 |
| 13 | 18 | 18 | 18 | 18 | 18 | 14 | 19 | 15 |
| 14 | 18 | 18 | 18 | 20 | 18 | 16 | 19 | 17 |
| 15 | 18 | 18 | 18 | 20 | 18 | 16 | 19 | 17 |
| 16 | 18 | 18 | 18 | 20 | 18 | 17 | 19 | 17 |
| 17 | 18 | 18 | 18 | 18 | 16 | 17 | 19 | 17 |
| 18 | 0 | 0 | 18 | 18 | 16 | 18 | 19 | 14 |
| 19 | 0 | 0 | 18 | 18 | 15 | 18 | 19 | 14 |
| 20 | 0 | 0 | 0 | 18 | 0 | 16 | 19 | 13 |

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By: christopher.pyle on USBRDBSC4422099_Electrical Three-Line Diagram.dwg
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Salt Lake City, UT 84106-2749
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TRC
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Augusta, ME 04330

PE STAMP:

STATE OF NEW YORK · CHARLES PASCALE · 072988 · LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

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|---|---|---|
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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL THREE-LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

SHEET NO: PV-E.02.11

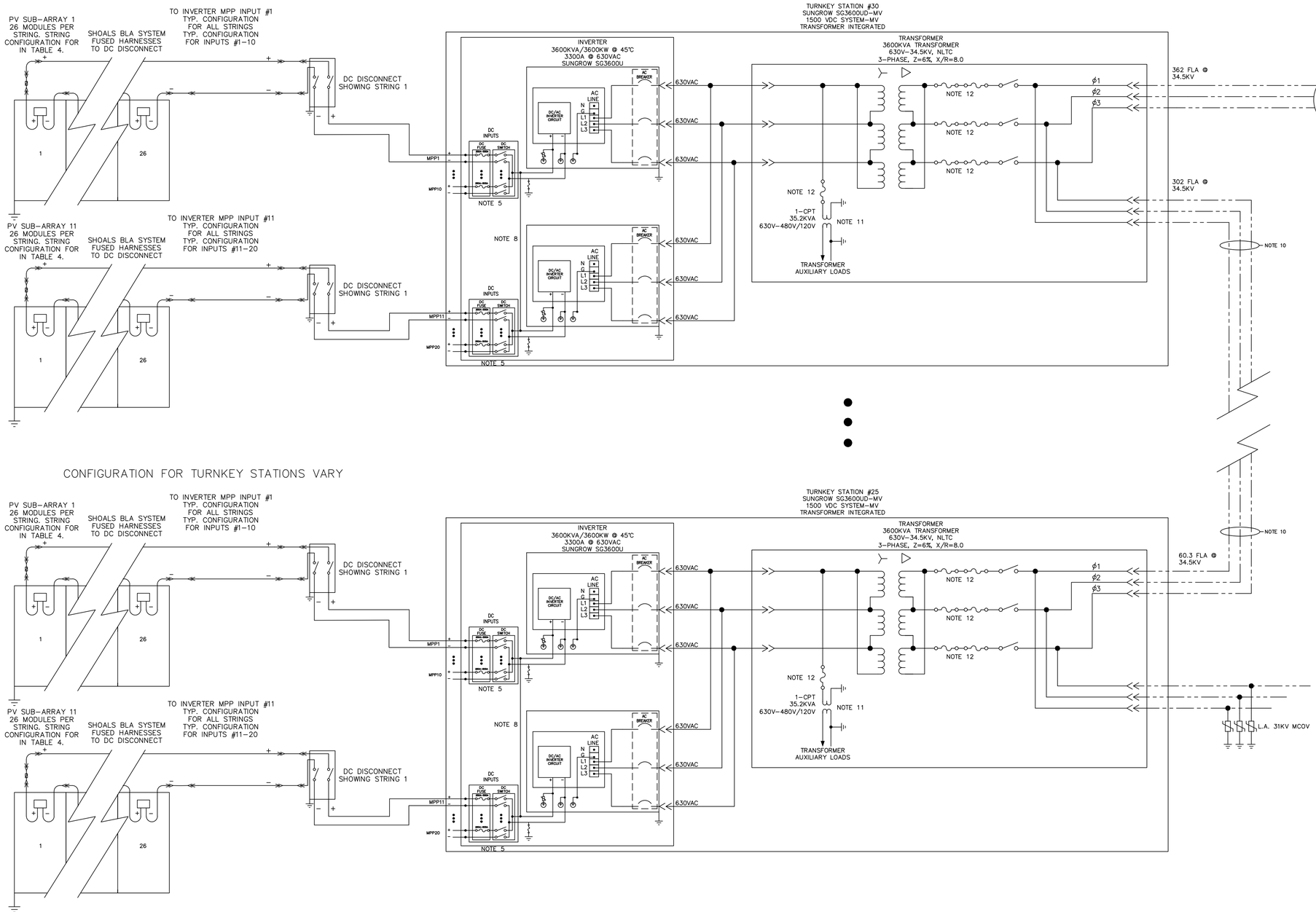
REV: 0

AES Tiledesk 22534 v210319

| PV SYSTEM SPECIFICATIONS (FEEDER 4) | |
|---|---|
| PV MODULES | 49,426 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 26,195.78 KW |
| INVERTERS | (6) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 20,000.00 KW |
| DC/AC RATIO @ POI | 1.310 |
| DC/AC RATIO @ INVERTER | 1.213 |

| PV SYSTEM SPECIFICATIONS TOTAL SYSTEM | |
|---|---|
| PV MODULES | 245,466 X JINKO SOLAR JKM530M-72HL4-TV 530W |
| DC RATING AT STC | 130,096.98 KW |
| INVERTERS | (30) X SUNGROW SG3600U |
| AC RATING NOTE 7 | 100,000.00 KW |
| DC/AC RATIO @ POI | 1.301 |
| DC/AC RATIO @ INVERTER | 1.205 |

CONFIGURATION FOR TURNKEY STATIONS VARY

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7. AC RATING MEASURED AT THE POI IS LIMITED TO 100MW BY THE PLANT CONTROLLER.
8. THE TWO DC BUS BARS ARE CONNECTED TOGETHER WHEN 1 MPPT IS SELECTED. ONE MPPT IS STANDARD.
9. JUNCTION BOX #2 LOCATED PRIOR TO COLLECTOR SUBSTATION TO COMBINE TS25-27 AND TS28-30. SEE DWG. PV-E.02.13 FOR FEEDER BREAKDOWN.
10. CABLE SIZING AND COLLECTION LENGTHS CAN BE FOUND IN DWG PV-E.02.13. FEEDER 4 CABLE SIZES RANGE FROM 1/0 TO 1250.
11. OPTIONAL AUX TRANSFORMER SUPPLIED BY MANUFACTURER WITH MULTIPLE SECONDARY OUTPUT WINDINGS.
12. FINAL FUSE SIZES TBD BY MANUFACTURER.

| FEEDER 4 TURNKEY STATION (TS) PV STRINGING | | | | |
|---|---|---|---|---|
| TURNKEY STATION (TS) | PV SERIES MODULES | INPUT NUMBER | PARALLEL STRINGS | PV MODULES PER TS |
| 25 | 26 | 19 | SEE TABLE 4 | 8,164 |
| 26 | 26 | 20 | SEE TABLE 4 | 8,268 |
| 27 | 26 | 18 | SEE TABLE 4 | 9,282 |
| 28 | 26 | 19 | SEE TABLE 4 | 7,228 |
| 29 | 26 | 20 | SEE TABLE 4 | 7,124 |
| 30 | 26 | 20 | SEE TABLE 4 | 9,360 |
| | | | TOTAL PV MODULES FOR TS ON FEEDER 4 | 49,426 |

TABLE 4

| INPUT | STRINGS PER INPUT | | | | | |
|---|---|---|---|---|---|---|
| | TS25 | TS26 | TS27 | TS28 | TS29 | TS30 |
| 1 | 15 | 16 | 18 | 16 | 16 | 18 |
| 2 | 15 | 16 | 18 | 16 | 16 | 18 |
| 3 | 16 | 16 | 18 | 16 | 13 | 18 |
| 4 | 16 | 16 | 19 | 16 | 13 | 18 |
| 5 | 15 | 16 | 19 | 16 | 13 | 18 |
| 6 | 15 | 16 | 19 | 16 | 13 | 18 |
| 7 | 15 | 16 | 19 | 16 | 13 | 18 |
| 8 | 15 | 16 | 19 | 16 | 13 | 18 |
| 9 | 15 | 16 | 19 | 16 | 13 | 18 |
| 10 | 15 | 16 | 19 | 16 | 13 | 18 |
| 11 | 15 | 18 | 19 | 16 | 13 | 18 |
| 12 | 16 | 18 | 15 | 16 | 13 | 18 |
| 13 | 16 | 14 | 15 | 16 | 13 | 18 |
| 14 | 16 | 18 | 16 | 16 | 13 | 18 |
| 15 | 16 | 13 | 15 | 18 | 13 | 18 |
| 16 | 16 | 13 | 18 | 18 | 13 | 18 |
| 17 | 16 | 16 | 18 | 18 | 15 | 18 |
| 18 | 17 | 16 | 18 | 0 | 15 | 18 |
| 19 | 17 | 16 | 18 | 0 | 15 | 18 |
| 20 | 17 | 16 | 18 | 0 | 15 | 18 |

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PE STAMP:

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CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

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PROJECT TITLE:

BROOKSIDE SOLAR PROJECT

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

ELECTRICAL THREE-LINE DIAGRAM

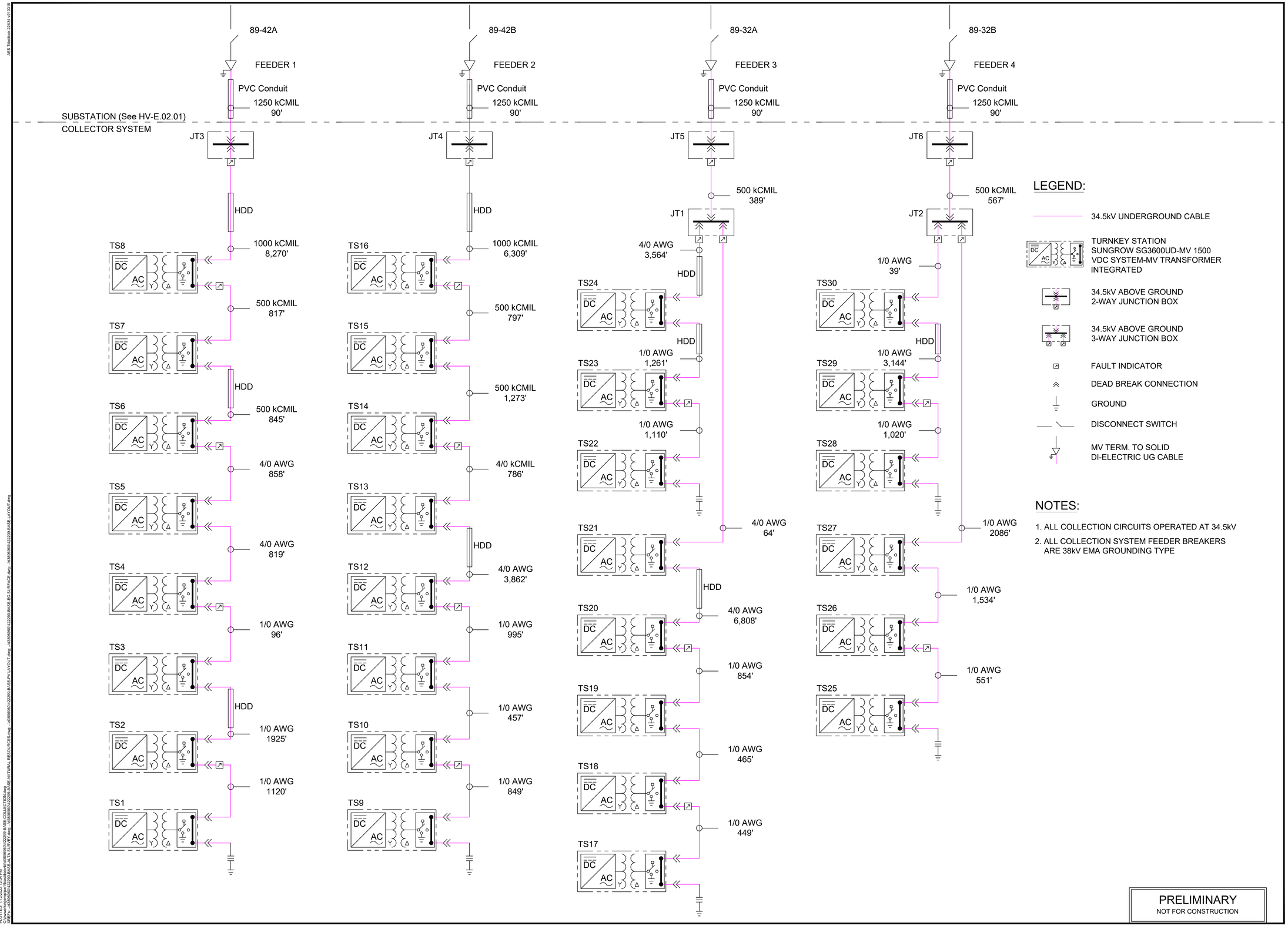
| | |
|---|---|
| PROJ NUM: | 422208 |
| DES: | A. QUIROZ |
| DWN: | A. QUIROZ |
| CHK: | B. TYLOCK |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":

NONE

SHEET NO: PV-E.02.12

REV: 0




## LEGEND:

- 34.5kV UNDERGROUND CABLE
- TURNKEY STATION SUNGROW SG3600UD-MV 1500 VDC SYSTEM-MV TRANSFORMER INTEGRATED
- 34.5kV ABOVE GROUND 2-WAY JUNCTION BOX
- 34.5kV ABOVE GROUND 3-WAY JUNCTION BOX
- FAULT INDICATOR
- DEAD BREAK CONNECTION
- GROUND
- DISCONNECT SWITCH
- MV TERM. TO SOLID DI-ELECTRIC UG CABLE

## NOTES:

1. ALL COLLECTION CIRCUITS OPERATED AT 34.5kV
2. ALL COLLECTION SYSTEM FEEDER BREAKERS ARE 38kV EMA GROUNDING TYPE

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KEVIN G. MARTIN
No. 099090
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PROJECT TITLE:

BROOKSIDE SOLAR ENERGY FACILITY

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

COLLECTION ONE LINE DIAGRAMS

-

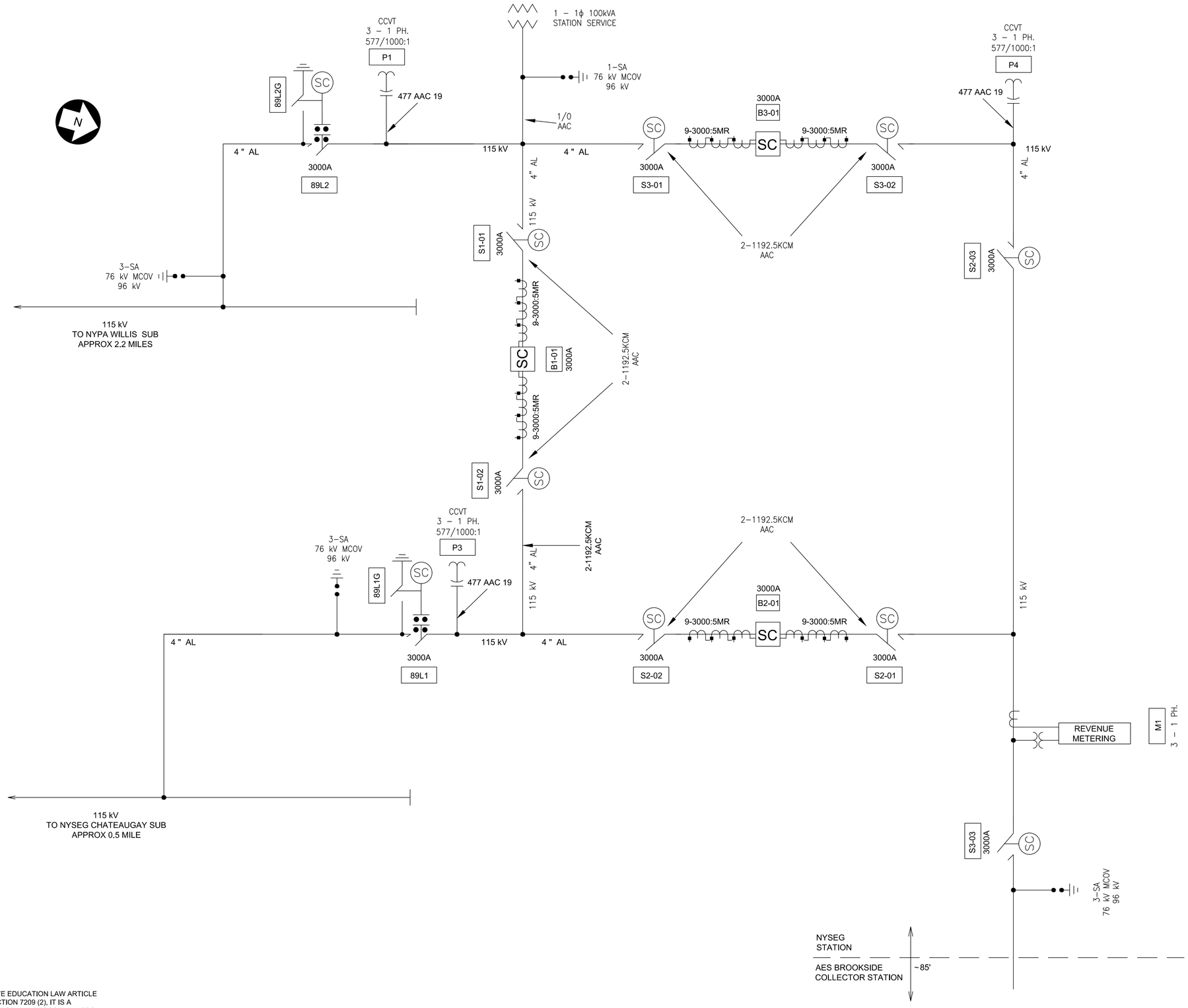
| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | A. SILVA |
| DWN: | A. SILVA |
| CHK: | A. GROSHEV |
| APV: | |
| DATE: | 01/14/2022 |

SCALE AT 22" x 34":

NTS

SHEET NO: PV-E.02.13

REV: 0

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PE STAMP:

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CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR
POI
SUBSTATION
115KV

PROJECT LOCATION:

TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

POI
SUBSTATION

SWITCHING
ONE-LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

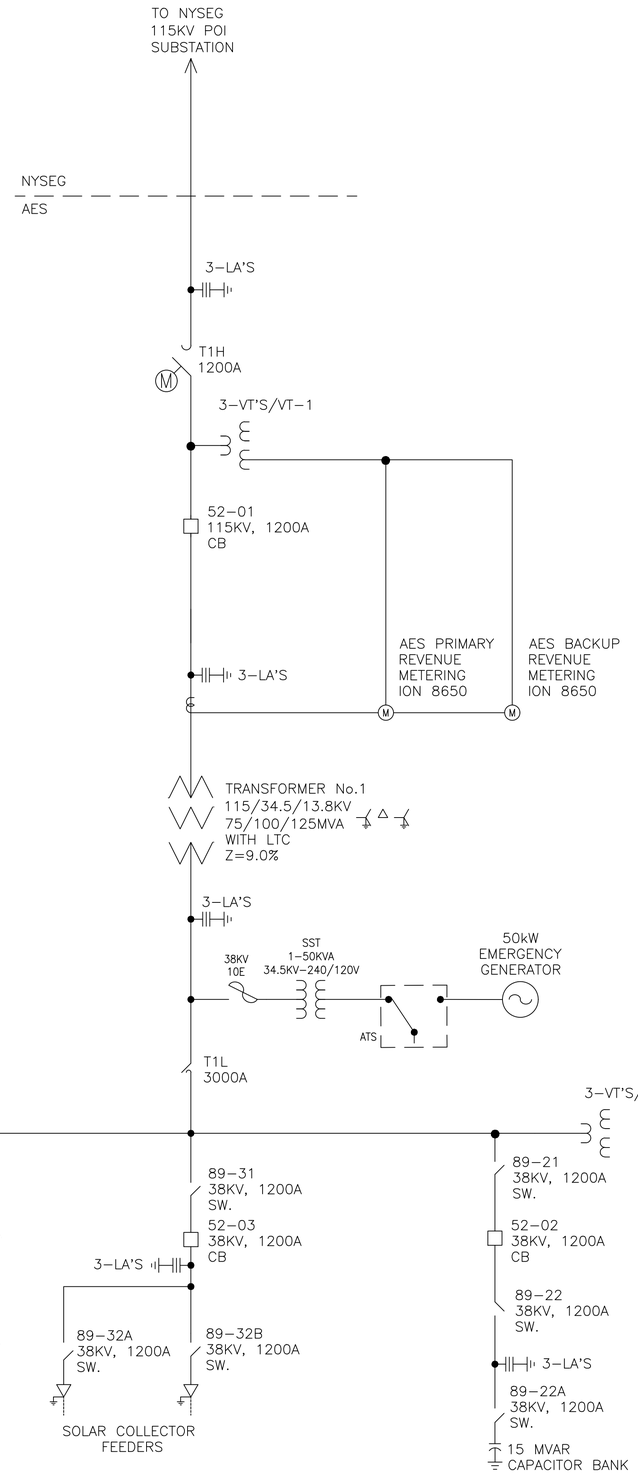
SCALE AT 22" x 34":

NONE

SHEET NO: 422299-0001-001

REV: 0

AES Tiledesk 22X34 (210319)




LEGEND OF SYMBOLS:

| | |
|---|---|
| HV SURGE ARRESTER | POWER TRANSFORMER (3ø) |
| 3ø GROUND SWITCH | IN–LINE/HOOK DISCONNECT SWITCH |
| FAULT INT. DEVICE (CKT. BKR.) | 3ø GROUP OPER. AIRBREAK W/MOTOR OPERATOR |
| 3ø GROUP OPER. AIRBREAK W/ ARCING HORNS | VOLTAGE TRANSFORMER |
| M.V. TERM. TO SOLID DI–ELECTRIC U.G. CABLE | REVENUE METERING (VT/CT) |
| CAPACITOR BANK | EMERGENCY GENERATOR |

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| | | |

PROJECT TITLE:
BROOKSIDE SOLAR
COLLECTION
SUBSTATION
115KV-34.5KV

PROJECT LOCATION:
TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:
COLLECTION
SUBSTATION

SWITCHING
ONE-LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 04/02/2021 |

SCALE AT 22" x 34":
NONE

SHEET NO: HV-E.02.01
REV: 0

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PLOTTED BY: dgrayce
PLOTTED ON: c0506d0f-HVE-02.01-AC SINGLE LINE.dwg
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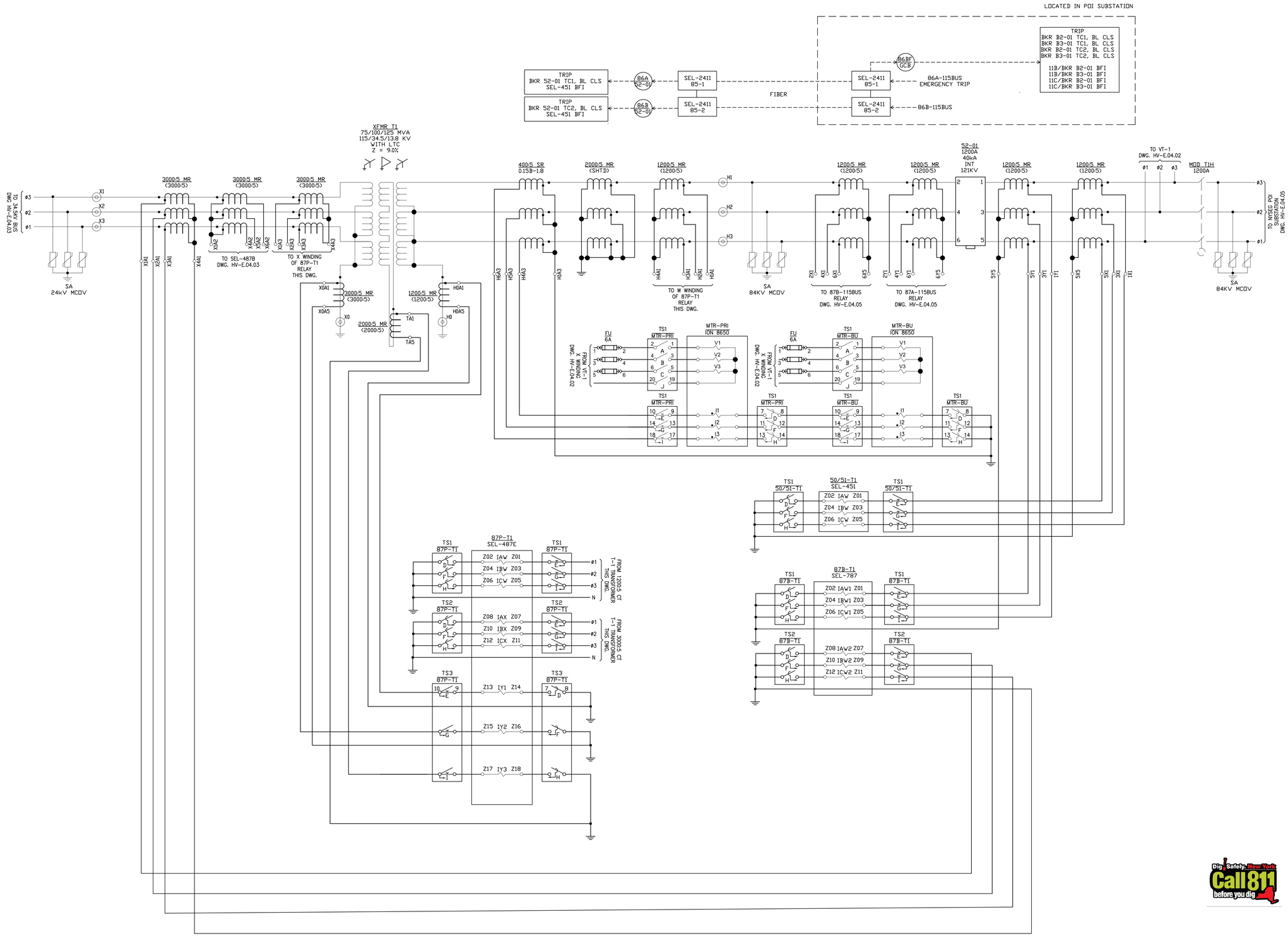



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LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

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|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

COLLECTION SUBSTATION

THREE-LINE DIAGRAM

| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/2021 |

SCALE AT 22" x 34":

NONE

SHEET NO: HV-E.04.01

REV: 0

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AES Titleblock 22X34 v210319
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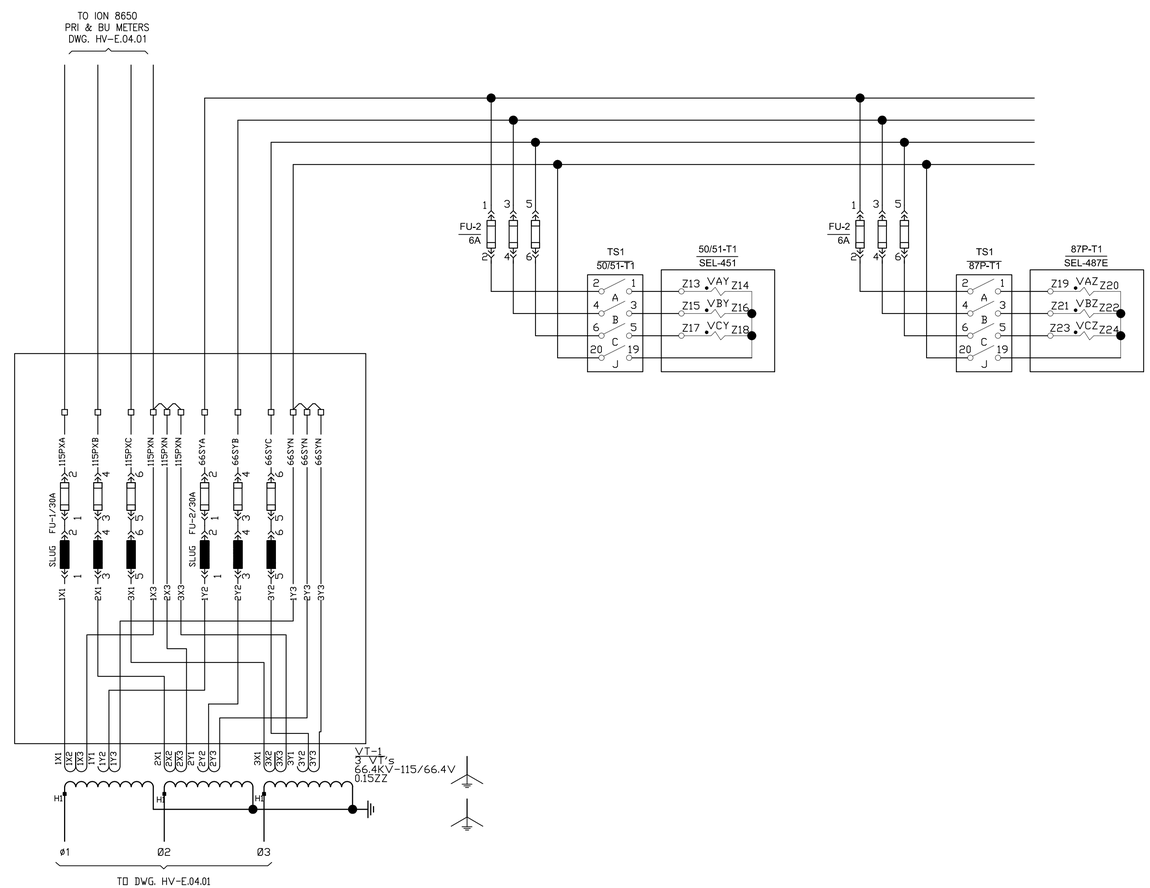


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Augusta, ME 04330


PE STAMP:

STATE OF NEW YORK
CHARLES PASCALE
072988
LICENSED PROFESSIONAL ENGINEER

KEY PLAN:

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

COLLECTION SUBSTATION

THREE-LINE DIAGRAM

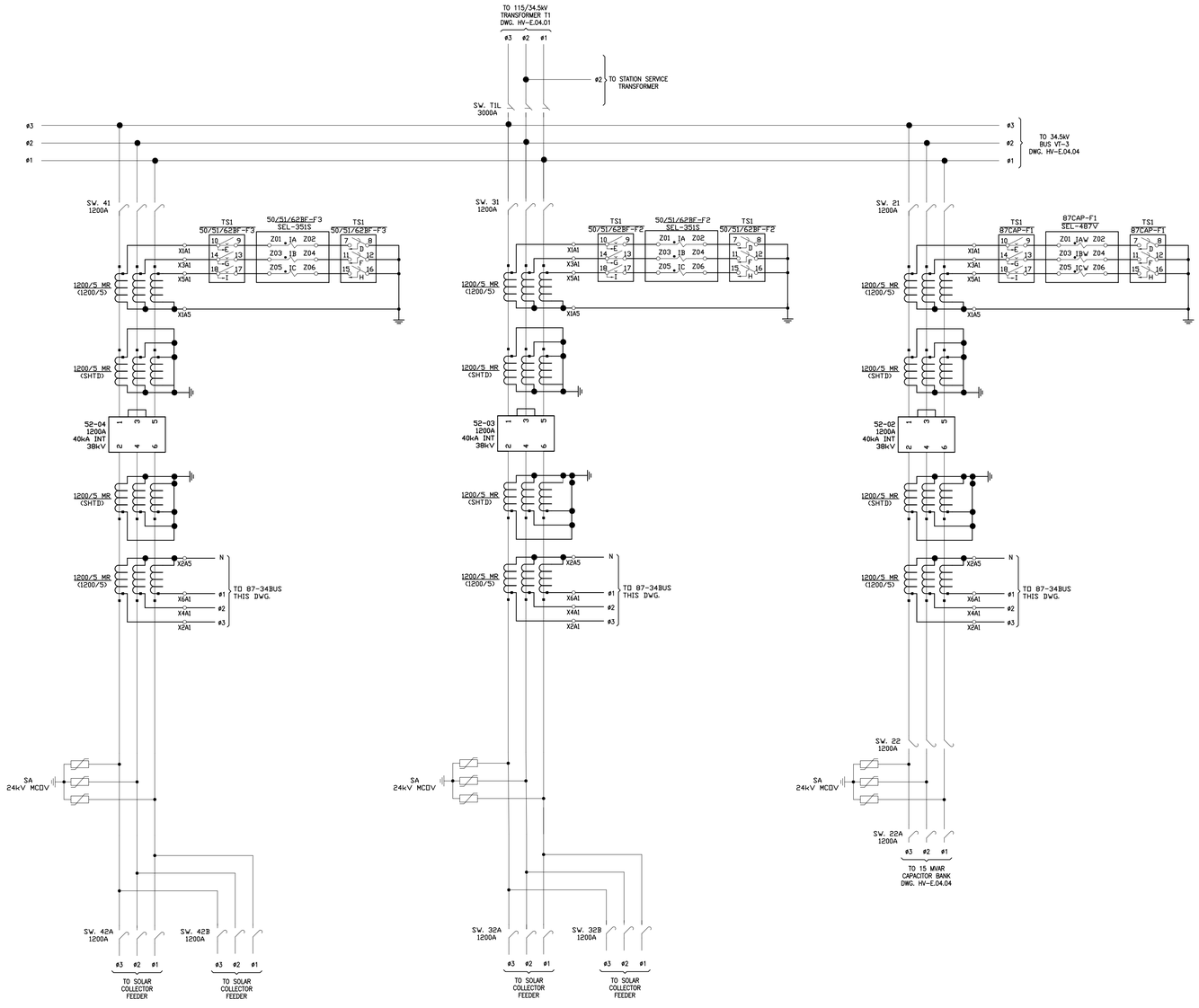
| | |
|---|---|
| PROJ NUM: | 422299 |
| DES: | D. FARRELL |
| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/2021 |

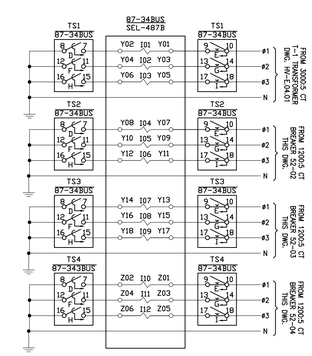
SCALE AT 22" x 34":

NONE

SHEET NO: HV-E.04.02

REV: 0

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PROJECT TITLE:

BROOKSIDE SOLAR COLLECTION SUBSTATION 115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

COLLECTION SUBSTATION

THREE-LINE DIAGRAM

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|---|---|
| PROJ NUM: | 422299 |
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| DWN: | D. FARRELL |
| CHK: | C. PASCALE |
| APV: | C. PASCALE |
| DATE: | 05/21/2021 |
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| REV: | 0 |

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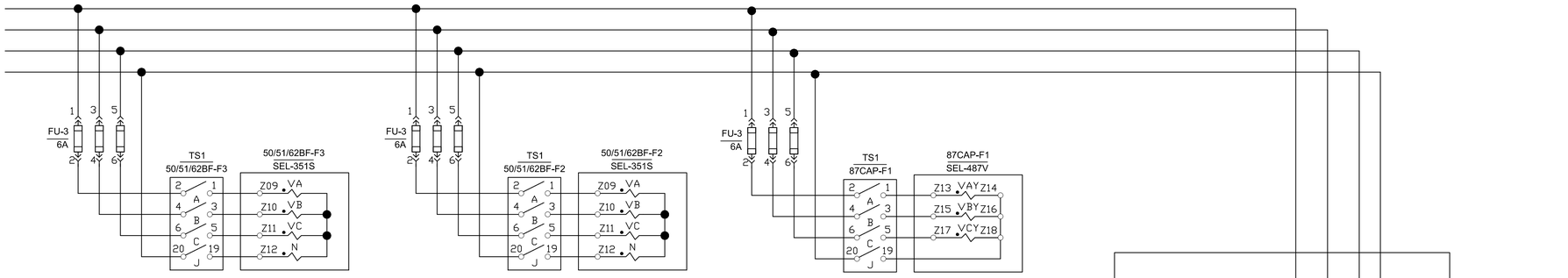


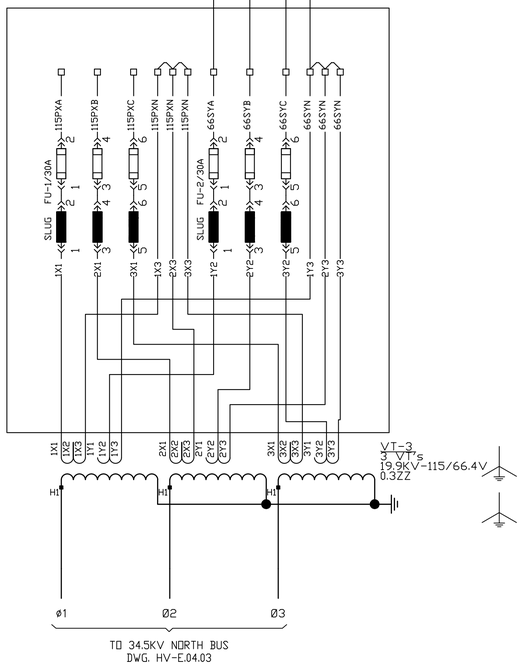


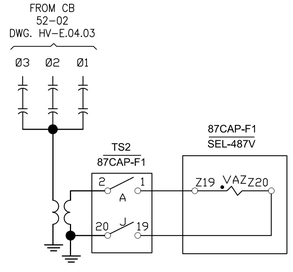


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PROJECT TITLE:

BROOKSIDE SOLAR
COLLECTION
SUBSTATION
115KV-34.5KV

PROJECT LOCATION:

TOWNS OF BURKE AND
CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

COLLECTION
SUBSTATION

THREE-LINE DIAGRAM

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SCALE AT 22" x 34":

NONE

SHEET NO: HV-E.04.04

REV: 0

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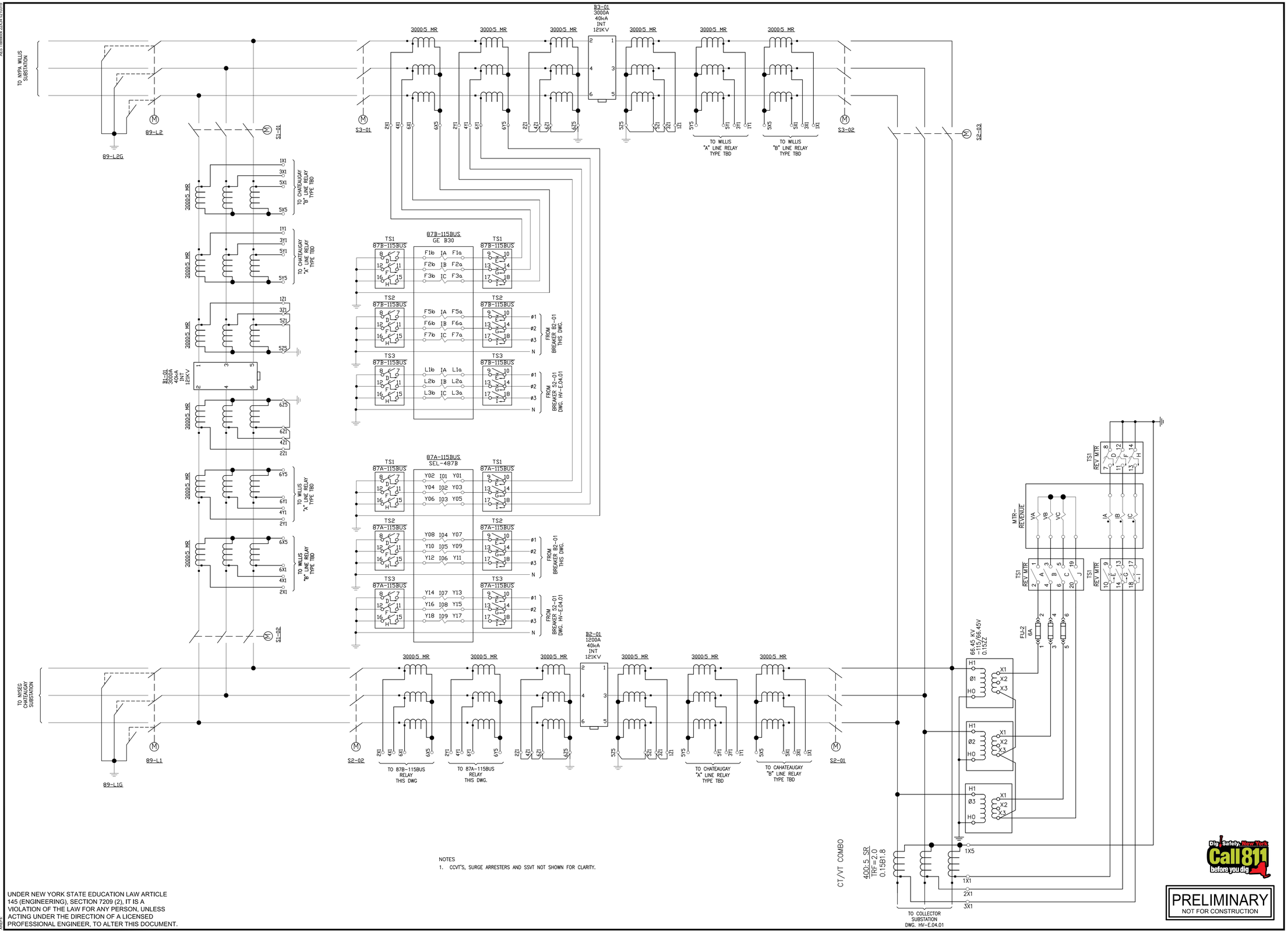
XREFs:




NOTES
1. CCVT'S, SURGE ARRESTERS AND SSVT NOT SHOWN FOR CLARITY.

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|---|---|---|
| 0 | 01/14/2022 | DESIGN DRAWINGS |

PROJECT TITLE:

BROOKSIDE SOLAR
POI SUBSTATION
115KV

PROJECT LOCATION:

TOWNS OF BURKE AND CHATEAUGAY, NY

SHEET TITLE & DESCRIPTION:

POI SUBSTATION

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| SHEET NO: | HV-E.04.05 |
| REV: | 0 |