



2665 Corning Road // Horseheads, NY 14845  
607.795.1110 / 607.795.1444 fax  
www.bergmannpc.com

OWNER: JOHN AIKEY JR.  
APPLICANT: AURA SOLAR POWER USA, LLC

COUNTY ROUTE 10  
CANANDAIGUA, NEW YORK 14424

COUNTY ROUTE 10 CANANDAIGUA  
COMMUNITY SOLAR  
FARM PROJECT  
PRELIMINARY SITE PLAN

PROJECT CONTACT LIST

OWNER: -JOHN AIKEY - 2890 COUNTY ROAD 10 CANANDAIGUA, NY 14424	ARCHITECT: - TBD	ELECTRICAL ENGINEER: - TBD
APPLICANT: - AURA POWER SOLAR USA, LLC - CONTACT: CAROLINE RIZZO - PHONE: 516.784.8355	MECHANICAL ENGINEER: - TBD	
STRUCTURAL ENGINEER: - TBD	CIVIL ENGINEER: - BERGMANN - 2665 CORNING ROAD HORSEHEADS, NY 14845 - CONTACT: ROBERT SWITALA - PHONE: 607.333.3120	

DRAWING INDEX

C000	COVER SHEET	
C001	GENERAL NOTES/LEGEND	
C002	AREA PARCEL PLAN	
C003	EXISTING CONDITIONS PLAN	
C004	SITE PLAN	
C005	OVERALL GRADING & DETAIL KEY PLAN	
C006-C008	GRADING DETAIL	
C009 - C011	DETAILS	

DATE	DESCRIPTION
3/10/2021	Per Town Comments



PROJECT LOCATION MAP: 1" - 1000'



PROJECT TOPOGRAPHIC MAP: 1" - 1000'



ISSUED FOR PERMIT  
FEBRUARY 10, 2021  
015066.00



SEQUENCE OF CONSTRUCTION:

1. PRE-CONSTRUCTION MEETING HELD TO INCLUDE PROJECT MANAGER, OPERATOR'S ENGINEER, CONTRACTOR, AND SUB-CONTRACTORS PRIOR TO LAND DISTURBING ACTIVITIES.
2. CONSTRUCT CONSTRUCTION ENTRANCE/EXIT AT LOCATIONS DESIGNATED ON PLANS.
3. INSTALL PERIMETER SILT FENCE.
4. HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE CONSTRUCTION IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
6. USE THE EXISTING GRAVEL ROAD DURING CONSTRUCTION.
7. STRIP TOPSOIL AND STOCKPILE IN A LOCATION ACCEPTABLE TO CONSTRUCTION MANAGER. WHEN STOCKPILE IS COMPLETE, INSTALL PERIMETER SILT FENCE. SEED SURFACE WITH 100% PERENNIAL RYEGRASS MIXTURE AT A RATE OF 2-4 LBS. PER 1000 SF. APPLY 90-100 LBS PER 1000 SF OF MULCH.
8. COMMENCE EARTHWORK CUT AND FILLS. THE WORK SHALL BE PROGRESSED TO ALLOW A REASONABLE TRANSFER OF CUT AND FILL EARTH FOR ROUGH GRADING AND EARTH MOVING. THE CONTRACTOR WILL BE GIVEN SOME LATITUDE TO VARY FROM THE FOLLOWING SCHEDULE IN ORDER TO MEET THE FIELD CONDITIONS ENCOUNTERED. CONTRACTOR SHALL REVIEW VARIATIONS TO SWPPP WITH DESIGN ENGINEER AND QUALIFIED PROFESSIONAL PRIOR TO IMPLEMENTATION.
9. REMOVE THE EXISTING GRAVEL DRIVEWAY AND CONSTRUCT THE PROPOSED PERVIOUS GRAVEL DRIVEWAY AFTER CONSTRUCTION ACTIVITIES SUCH AS THE INSTALLATION OF THE PANELS AND PERIMETER FENCE. THE SUB-GRADE MATERIAL WHERE THE DRIVEWAY IS TO BE INSTALLED SHALL BE DECOMPACTED PER NYSDEC'S "DEEP-RIPPING AND DECOMPACTION" MANUAL, DATED APRIL 2008. CONTRACTOR SHALL AVOID FREQUENT HEAVY TRAFFIC ON THE LIMITED USE PERVIOUS GRAVEL.
10. AS ROADWAY AND ACCESS DRIVES ARE BROUGHT TO GRADE, THEY WILL BE STABILIZED WITH CRUSHED STONE SUBBASE AT A DEPTH SPECIFIED ON PLANS TO PREVENT EROSION AS SOON AS PRACTICABLE.
11. STABILIZE ALL AREAS AS SOON AS PRACTICABLE, IDLE IN EXCESS OF 7 DAYS AND IN WHICH CONSTRUCTION WILL NOT RECOMMENCE WITHIN 14 DAYS.
12. INSTALL UTILITIES. TRENCH EXCAVATION/BACKFILL AREAS SHOULD BE STABILIZED PROGRESSIVELY AT THE END OF EACH WORKDAY WITH SEED AND STRAW MULCH AT A RATE OF 100% PERENNIAL RYE GRASS AT 2-4 LBS/1000 SF MULCHED AT 90-100 LBS/1000 SF.
13. STABILIZE ALL AREAS IDLE IN EXCESS OF 7 DAYS IN WHICH CONSTRUCTION WILL NOT RECOMMENCE WITHIN 14 DAYS.
14. REMOVE TEMPORARY CONSTRUCTION EXITS AND PERIMETER SILT FENCE ONCE SITE HAS ACHIEVED 80% UNIFORM STABILIZATION.

GENERAL NOTES:

1. THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THIS MAP HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORD MAPS. THEY ARE NOT CERTIFIED TO THE ACCURACY OF THEIR LOCATION AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION ACTIVITIES IN THEIR VICINITY. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD STAKED BEFORE STARTING WORK BY CALLING 1-800-962-7962.
2. THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 29 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
3. HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES.
4. THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
5. IN ALL TRENCH EXCAVATIONS, CONTRACTOR MUST LAY THE TRENCH SIDE SLOPES BACK TO A SAFE SLOPE, USE A TRENCH SHIELD OR PROVIDE SHEETING AND BRACING.
6. IF SUSPICIOUS AND/OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION/CONSTRUCTION, ALL WORK SHALL STOP AND THE WARREN COUNTY DEPARTMENT OF HEALTH AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SHALL BE NOTIFIED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE DEVELOPER HAS OUTLINED APPROPRIATE ACTION FOR DEALING WITH THE WASTE MATERIAL AND THE DEVELOPMENT PLANS ARE MODIFIED AS MAY BE NECESSARY.
7. EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
8. AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECTS CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE.
9. UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 1, 2020 AND ANY SUBSEQUENT APPENDICES.

WASTE/HAZARDOUS MATERIAL PRACTICES:

1. WHENEVER POSSIBLE COVERED TRASH CONTAINERS SHOULD BE USED.
2. DAILY SITE CLEANUP IS REQUIRED TO REDUCE DEBRIS AND POLLUTANTS IN THE ENVIRONMENT.
3. CONTRACTOR SHALL PROVIDE A SAFE STORAGE SPACE FOR ALL PAINTS, STAINS AND SOLVENTS INSIDE A COVERED STORAGE AREA.
4. ALL FUELS, OILS, AND GREASE MUST BE KEPT IN CONTAINERS AT ALL TIMES.

EROSION & SEDIMENT CONTROL NOTES:

1. INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, AND THE GOVERNING MUNICIPAL REQUIREMENTS.
2. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER REPLACE TOPSOIL TO A MINIMUM 4" DEPTH WITH TOPSOIL OR AMENDED SOIL. ALL DISTURBED AREAS TO BE SEEDED TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
3. IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATIVE COVER HAS BEEN ACHIEVED.
5. ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED AT A MINIMUM OF EVERY 3 MONTHS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL OR AMENDED TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
7. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
8. ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
9. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
10. DUST SHALL BE CONTROLLED BY WATERING.
11. ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
12. SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

STORM WATER POLLUTION PREVENTION PLAN NOTES:

1. THE CONTRACTOR SHALL PROVIDE A QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK WEEK AND PROVIDE A REPORT AT LEAST ONCE PER WEEK.
2. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, ONTARIO COUNTY HEALTH DEPARTMENT, AND THE TOWN OF CANANDAIGUA REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BEST MANAGEMENT PRACTICES (BMPs) UNTIL GROUND COVER IS ESTABLISHED.
4. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDDED AS DIRECTED BY THE CONSTRUCTION MANAGER TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
5. IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
7. ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED WHEN THEY HAVE REACHED THE DESIGN LIFE INDICATED IN THE NYS GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL DESIGN MANUAL OR EVERY THREE MONTHS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
9. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL AND EROSION CONTROL STRUCTURES THROUGHOUT CONSTRUCTION.
10. ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
11. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
12. DUST SHALL BE CONTROLLED BY WATERING.
13. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
14. EROSION CONTROL MEASURES SHOULD BE RELOCATED INWARD AS PERIMETER SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO THE NYS STANDARDS A SPECIFICATION AT THE END OF EACH DAY.
15. PERIMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY AT MINIMUM AT THE END OF EACH WEEK WITH 100% PERENNIAL RYEGRASS MIX AT A RATE OF 2-4 LBS PER 1000 SF AND MULCH 90-100 LBS PER 1000 SF OF WEED FREE STRAW.
16. SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

SITE STABILIZATION:

1. WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
2. MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE. VERY LITTLE BARE GROUND SHOULD BE VISIBLE THROUGH THE MULCH.
3. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENTS MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ALONG THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.
4. BEFORE SEEDING IS APPLIED THE CONTRACTOR SHALL SPREAD SOIL TO PREVENT PONDING AND CONFIRM THAT SOIL WILL SUSTAIN THE SEED GERMINATION AND ESTABLISHMENT OF VEGETATION.
5. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENEED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE. COMPACTED SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES, ALONG CONTOUR WHEREVER POSSIBLE, PRIOR TO SEEDING.
6. TOPSOIL OR AMENDED SOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A MINIMUM DEPTH OF 6 INCHES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS.
7. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
8. WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE  $\frac{1}{2}$ " TO  $\frac{3}{4}$ ". COMPOST SHOULD BE PLACED EVENLY AND SHOULD PROVIDE 100% SOIL COVERAGE. NO SOIL SHOULD BE VISIBLE.
9. POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45° F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.
10. SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.
11. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
12. SHREDDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LBS/ACRE AT A MINIMUM.
13. LIME, FERTILIZER, SEED, AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS, IN AREAS OF STEEP SLOPES OR OBVIOUS AREAS WHERE POTENTIAL EROSION MAY OCCUR, AN EROSION CONTROL MAT OR FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED. FGM SHALL BE APPLIED PER MANUFACTURER SPECIFICATIONS.
14. ONCE A SECTION OF THE ALIGNMENT HAS BEEN STABILIZED, NO CONSTRUCTION TRAFFIC SHALL OCCUR TO REMOVE ANY BMPs UNTIL THE SECTION HAS ACHIEVED 80% PERENNIAL VEGETATIVE COVER. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NONVEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.

AGENCY APPROVALS:

1. SITE PLAN/SPECIAL USE PERMIT APPROVAL FROM TOWN OF CANANDAIGUA.
2. ONTARIO COUNTY PLANNING BOARD 239-M REVIEW
3. SHPO SIGN-OFF
4. NYSERDA
5. NYSDEC SPEDES GP-0-20-001
6. USACE NWP 51

TOWN OF CANANDAIGUA NOTES:

1. THIS PROJECT HAS BEEN SUBMITTED TO THE TOWN OF CANANDAIGUA.
2. A SPECIAL USE PERMIT WILL BE REQUIRED FROM THE TOWN OF CANANDAIGUA.
3. BOUNDARY SURVEY PREPARED BY BERGMANN BASED ON FIELD SURVEY COMPLETED IN FEBRUARY 2021.

ESTIMATED CONSTRUCTION DATES

START	JUNE 1, 2021
INITIAL SITE DISTURBANCE	JUNE 1, 2021
INSTALLATION OF RACKING SYSTEM	JULY 1, 2021
INSTALLATION OF PANELS & WIRING	SEPTEMBER 1, 2021
END	NOVEMBER 1, 2021

Note: These dates are subject to change based on receipt of approvals and ability to procure construction materials.

TOWN OF CANANDAIGUA NOTES/SIGNATURES

PLANNING BOARD CHAIRPERSON	SIGNATURE _____
TOWN REVISIONS/NOTES:	



280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

# AURA SOLAR POWER USA, LLC

## COUNTY ROUTE 10 CANANDAIGUA SOLAR FARM PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

Sheet Name

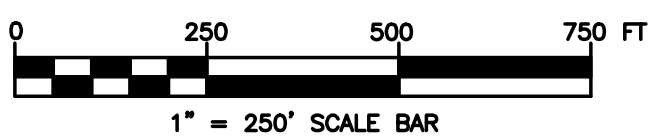
## GENERAL NOTES

Drawing Number

# C001



ARCH D 24x36  
C:\3192020\15066.00 Aura Solar Power-Canandaigua Solar\4.0 Dwg\4.1 Civil\002 - Area Parcel Plan.dwg  
3/8/2021 3:50 PM



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

**AURA SOLAR POWER  
USA, LLC**

**COUNTY ROUTE 10  
CANANDAIGUA  
SOLAR FARM  
PROJECT**

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments

Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

Sheet Name

**AREA PARCEL  
PLAN**

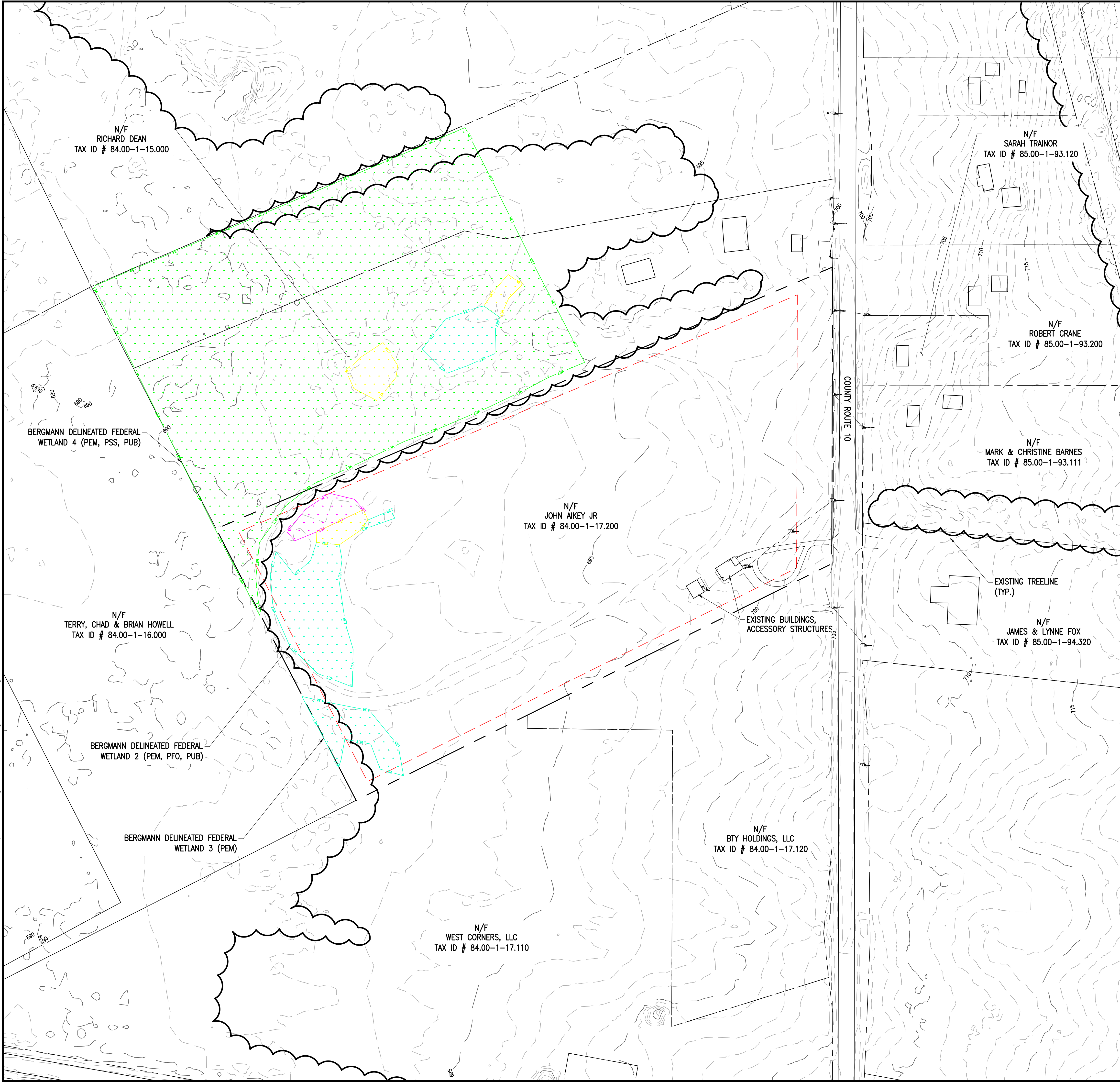
Drawing Number

**C002**

3 of 12



ARCH D 24x36  
C:\192020\015066.00 Aura Solar Power-Canandaigua Solar\4.dwg\4.1 Civil\003 - Existing Conditions.dwg  
3/8/2021 3:59 PM



1. PROPERTY IS KNOWN AS TAX MAP ID # 84.00-1-17.200 THE TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK.
2. LOT AREA = 17.92 AC.
3. NO CHANGES IN STREET RIGHT OF WAY LINES EITHER COMPLETED OR PROPOSED KNOWN TO THIS SURVEYOR. NO OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
4. VERTICAL DATUM = NAVD88.
5. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.
6. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THIS SURVEY.

#### LEGEND

- LEASE LINE
- ADJOINING PROPERTY LINE
- DELINEATED WETLAND - PEM
- DELINEATED WETLAND - PSS
- DELINEATED WETLAND - PUB
- DELINEATED WETLAND - PFO
- SETBACK LINE



280 E Broad St. Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

## AURA SOLAR POWER USA, LLC

### COUNTY ROUTE 10 CANANDAIGUA SOLAR FARM PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
RPS	RPS
Designer	Reviewer
HB	RPS
Date Issued	Project Number
02/09/2021	15066.00

Sheet Name

## EXISTING CONDITIONS PLAN

Drawing Number

# C003





<p align="center"><b>SITE PLAN DATA TABLE</b></p> <p>SITE IS LOCATED IN THE "T" INDUSTRIAL MIXED USE OVERLAY DISTRICT</p> <p>PROPOSED USE: SOLAR - PERMITTED USE BY SPECIAL USE PERMIT APPROVAL</p> <p>PARCEL 84.00-1-17.200</p> <p>TOWN OF CANANADAGUA, COUNTY OF ONTARIO</p> <p>STATE OF NEW YORK</p> <p>APPLICANT: ALRA SOLAR POWER USA, LLC.</p> <p>OWNER(S) OF RECORD: JOHN ARKEY JR 221 DAVIDSON AVE CANANADAGUA NY, 14424</p>		
<p>PLANS PREPARED BY: BERGMANN 2665 CORNING ROAD HORSEHEADS, NY 14845 (607)-333-3121</p>		
<p align="center"><b>ZONING REQUIREMENTS TABLE</b></p>		
	<b>REQUIRED</b>	<b>PROVIDED</b>
LOT AREA	3 AC	17.92 AC
FRONT SETBACK	75'	75'
REAR SETBACK	25'	25'
SIDE SETBACK	40'	40'
MAX HEIGHT	8'	10'

LEGEND

LEASE LINE

ADJOINING PROPERTY LINE

DELINEATED WETLAND - PERMANENT

DELINEATED WETLAND - POSSIBLE

DELINEATED WETLAND - PUD

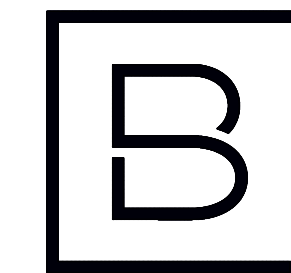
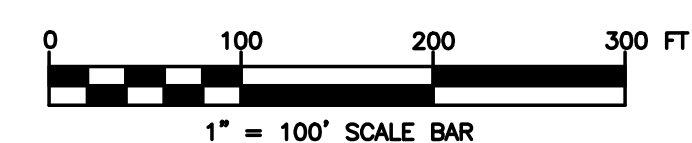
DELINEATED WETLAND - PFO

SETBACK LINE

PLANT LIST								
				Mature Size				
Key	Qty.	Botanical Name	Common Name	Height	Spread	Installed Size	Condition	Spacing
PA		Juniperus Virginia	Burkii	10-25' Ht	4-10' Sprd.	8' Ht.	B&B	40'
JV		Juniperus Virginiana	Eastern Red Cedar	40-50' Ht.	8-20' Sprd.	8' Ht.	B&B	40'

SITE DISTANCE FROM ACCESS ROAD	
DIRECTION	DISTANCE (FEET)
NORTH	2,000
SOUTH	1,400

DISTANCE TO ADJACENT PROPERTY DRIVEWAYS	
DRIVEWAY	DISTANCE (FEET)
A	695
B	563
C	359
D	320
E	944
F	1,152



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

**AURA SOLAR POWER  
USA, LLC**

# COUNTY ROUTE 10 CANANDAIGUA SOLAR FARM PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments

PLANT LIST								
				Mature Size				
Key	Qty.	Botanical Name	Common Name	Height	Spread	Installed Size	Condition	Spacing
PA		Juniperus Virginia	Burkii	10-25' Ht	4-10' Sprd.	8' Ht.	B&B	40'
JV		Juniperus Virginiana	Eastern Red Cedar	40-50' Ht.	8-20' Sprd.	8' Ht.	B&B	40'

SITE DISTANCE FROM ACCESS ROAD	
DIRECTION	DISTANCE (FEET)
NORTH	2,000
SOUTH	1,400

DISTANCE TO ADJACENT PROPERTY DRIVEWAYS	
DRIVEWAY	DISTANCE (FEET)
A	695
B	563
C	359
D	320
E	944
F	1,152



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

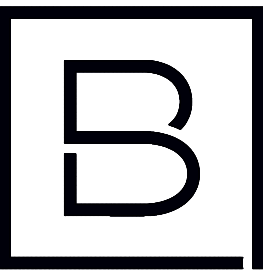
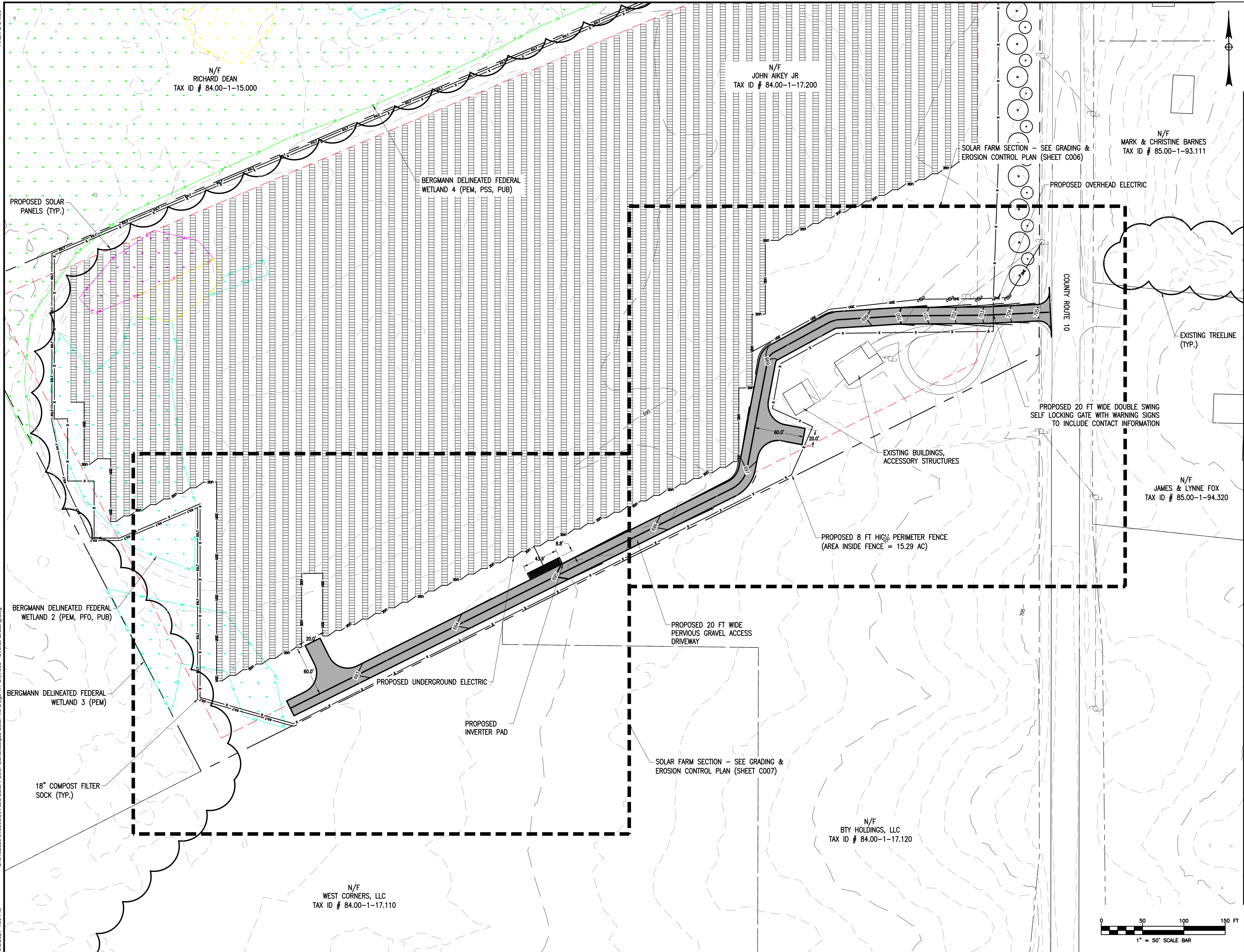
Sheet Name

## SITE PLAN

Drawing Number

# C004





**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

## AURA SOLAR POWER USA, LLC

### COUNTY ROUTE 10 CANANDAIGUA SOLAR FARM PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

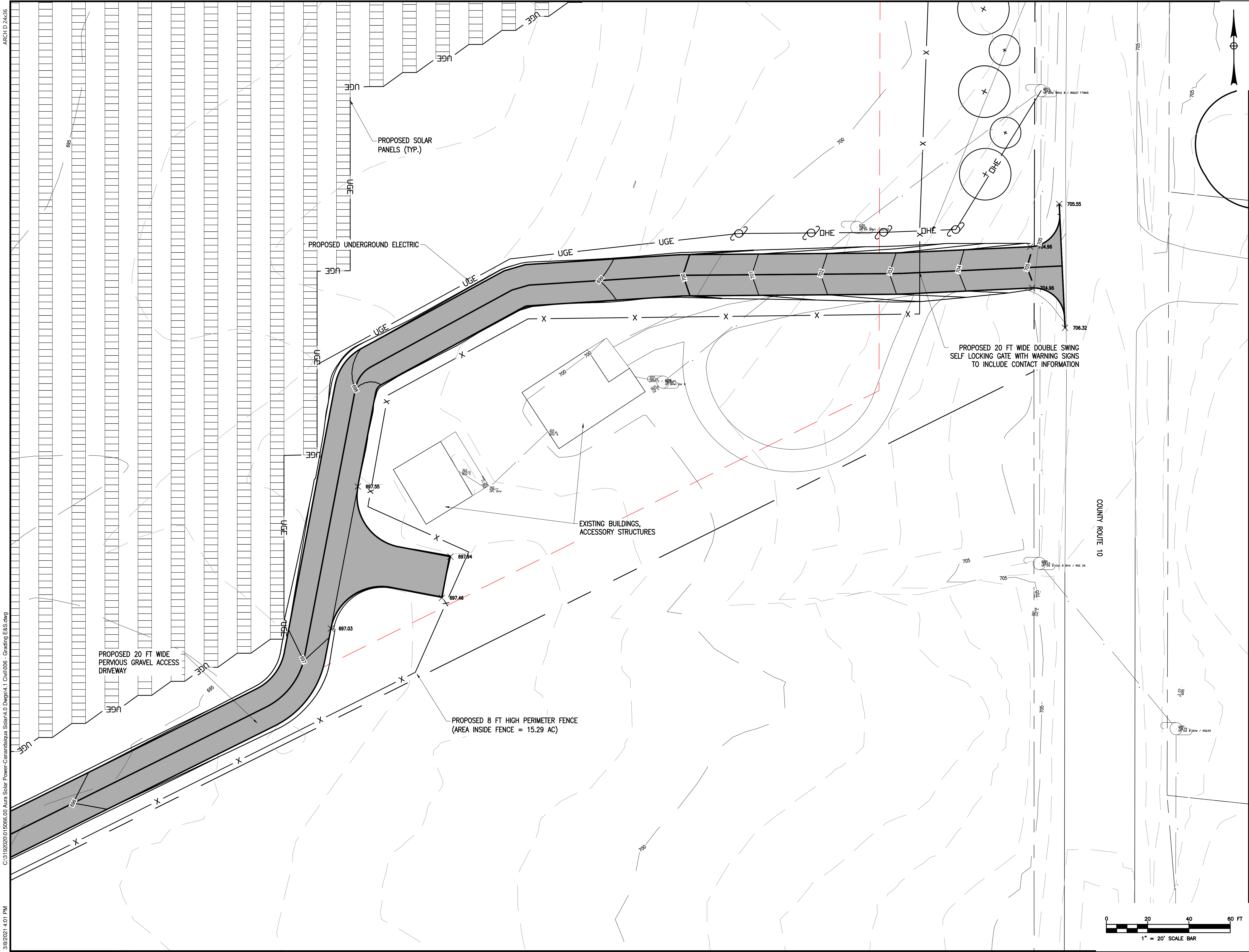
Sheet Name

## OVERALL GRADING & DETAIL KEY PLAN

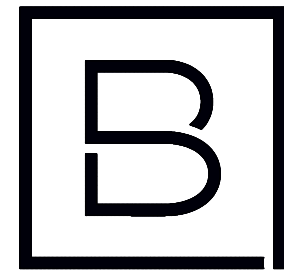
Drawing Number

# C005





ARCH D 2436  
C:\3192020\15066.00 Aura Solar Power-Canandaigua Solar\4.0 Dwg\4.1 Civil\006 - Grading E&S.dwg  
3/8/2021 4:01 PM



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

**AURA SOLAR POWER  
USA, LLC**

**COUNTY ROUTE 10  
CANANDAIGUA  
SOLAR FARM  
PROJECT**

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

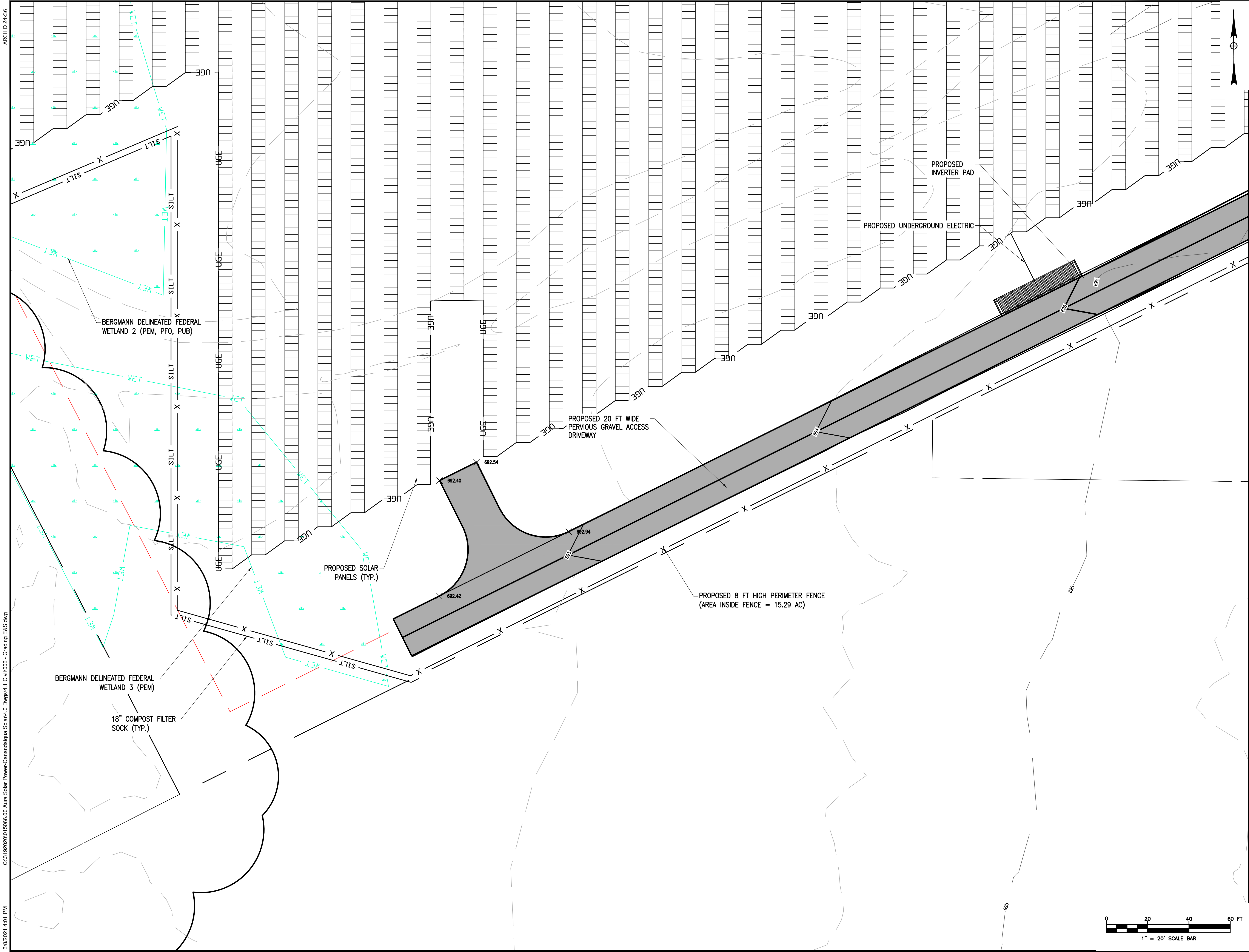
Sheet Name

**GRADING DETAIL  
AND STORMWATER  
PLAN**

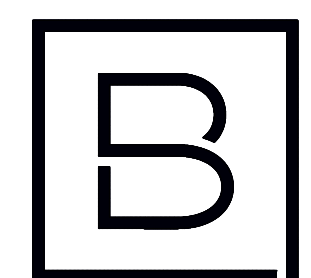
Drawing Number

**C006**





ARCH D 2436  
C:\3192020\15066.00 Aura Solar Power-Canandaigua Solar\4.0 Dwg\4.1 Civil\006 - Grading E&S.dwg  
3/8/2021 4:01 PM



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

## AURA SOLAR POWER USA, LLC

## COUNTY ROUTE 10 CANANDAIGUA SOLAR FARM PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

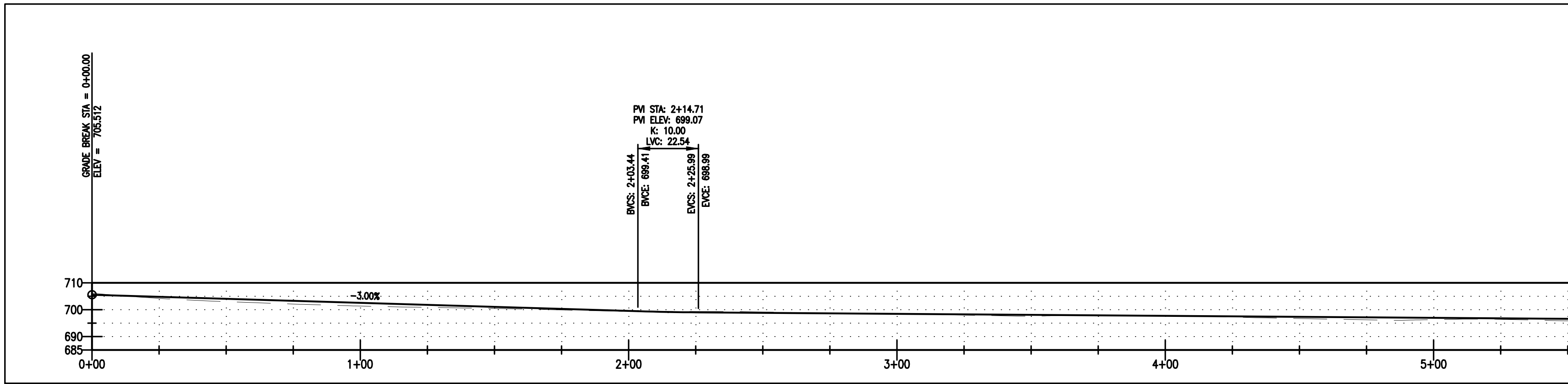
Sheet Name

## GRADING DETAIL AND STORMWATER PLAN

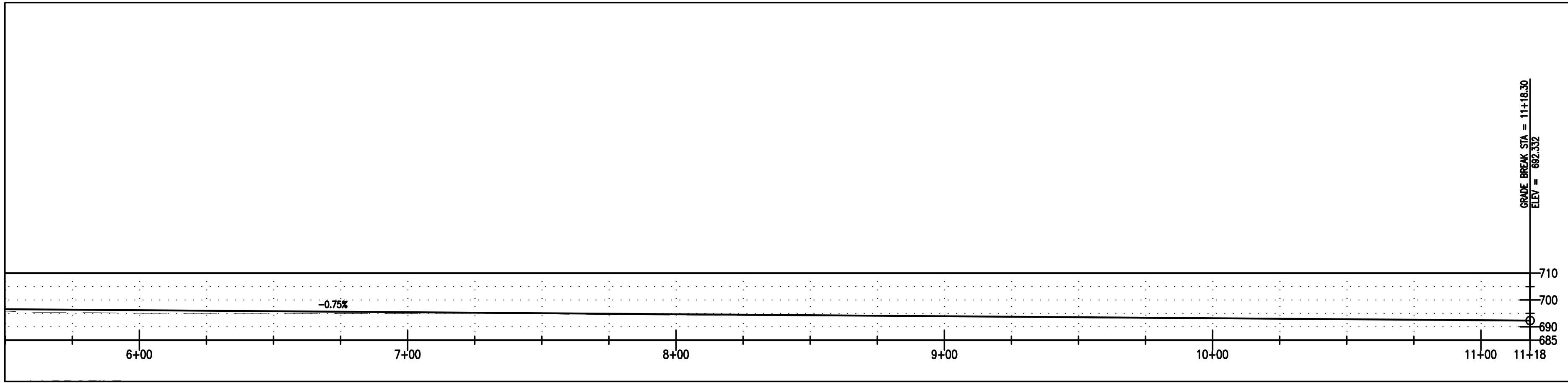
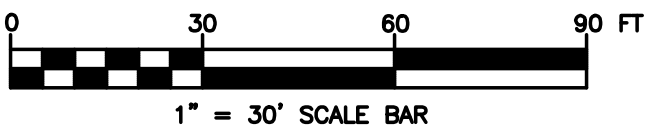
Drawing Number

# C007

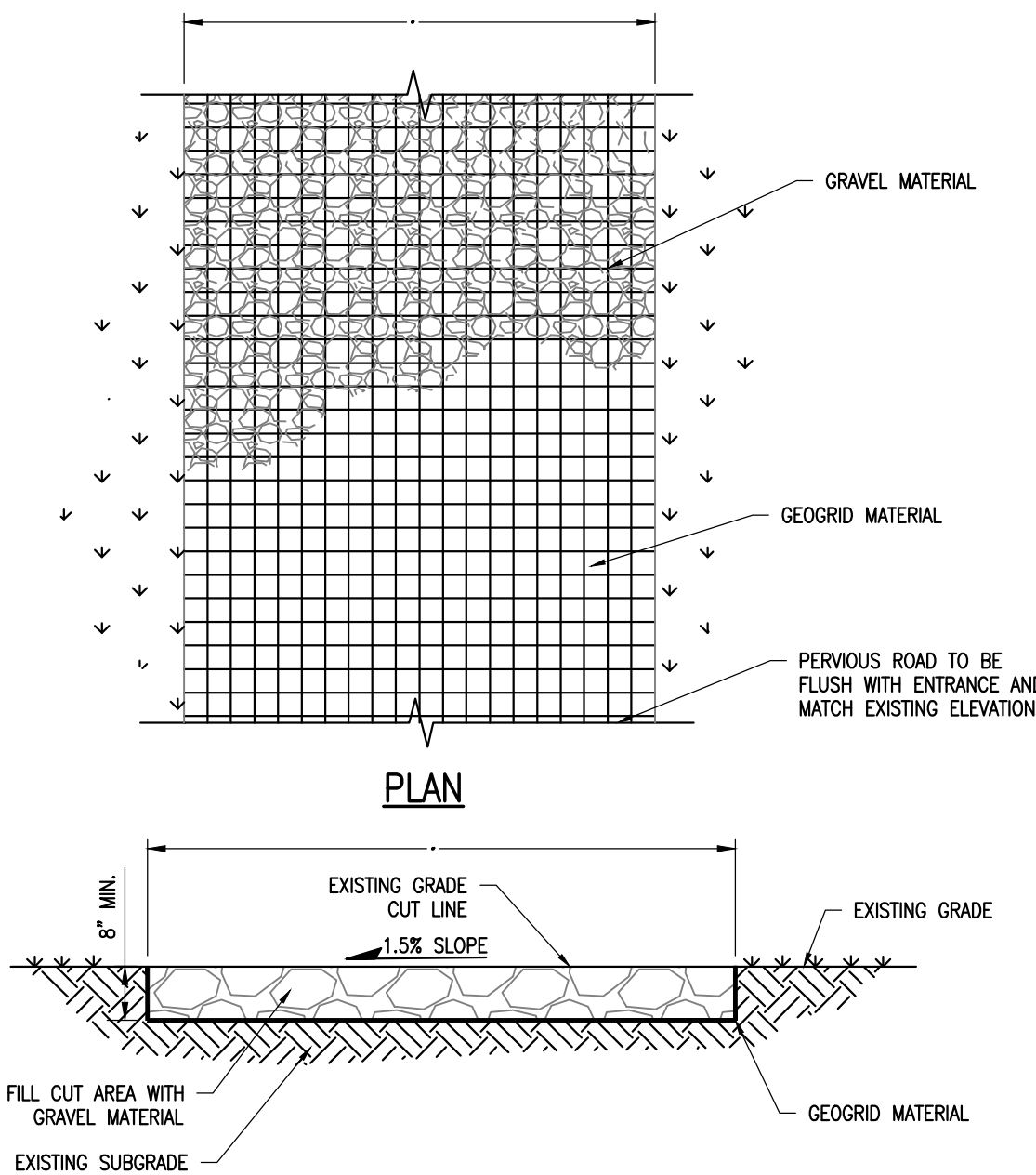
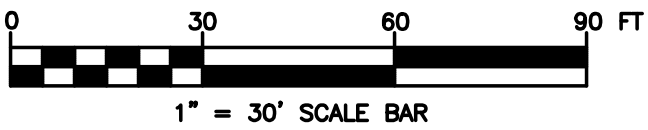




DRIVEWAY SECTION 1



DRIVEWAY SECTION 2



LIMITED USE PERVIOUS ACCESS ROAD - 0% TO 10% SLOPES

NO SCALE

GEOGRID MATERIAL NOTES:

1. THE GEOGRID, OR COMPARABLE PRODUCT, IS INTENDED FOR USE IN ALL CONDITIONS, IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE ACCESS LOADS.
2. GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATION OF NYSDOT 703-02, SIZE DESIGNATION 3-5 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 DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYSDOT 703-02 SPECIFICATIONS.

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

WOVEN GEOTEXTILE MATERIAL NOTES:

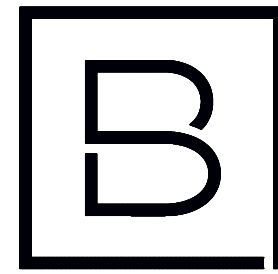
1. SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OF C OR D OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST OR GEOTECHNICAL DATA.
2. THE CONCERN OF 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

GENERAL NOTES:

1. USE OF THIS DETAIL/CRITERION IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE).
2. LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
3. REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY, FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
4. REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER, COMPACT TO THE DEGREE OF THE NATIVE IN SITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORM WATER DRAINAGE.
5. GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOILS AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
6. REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORM WATER DRAINAGE.
7. ROADWAY WIDTH TO BE DETERMINED BY CLIENT.
8. THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 1.5% IN MOST CASES AND SHOULD NOT EXCEED 6%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
9. LIMITED USE PERVIOUS ACCESS ROAD IS NOT INTENDED TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ACCESS TO SEDIMENT TRACKING. THIS SPECIFICATION IS TO BE DEVELOPED FOR POST-CONSTRUCTION USE. SOIL RESTORATION PRACTICES MAY BE APPLICABLE TO RESTORE CONSTRUCTION RELATED COMPACTION TO PRE-EXISTING CONDITIONS AND SHOULD BE VERIFIED BY SOIL PENETROMETER READINGS. THE PENETROMETER READINGS SHALL BE COMPARED TO THE RESPECTIVE RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION, EVERY 100 LINEAR FEET ALONG THE PROPOSED ROADWAY.
10. 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 THE LIMITED USE PERVIOUS ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION AND UTILIZED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD FROM ANY LOCATION ON, OR OFF SITE, MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.

11. THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION.
12. PROJECTS SHOULD AVOID INSTALLATION OF THE LIMITED USE PERVIOUS ACCESS ROAD IN POORLY DRAINED AREAS, HOWEVER IF NO ALTERNATIVE LOCATION IS AVAILABLE, THE PROJECT SHALL UTILIZE WOVEN GEOTEXTILE MATERIAL AS DETAILED IN FOLLOWING NOTES.
13. THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATED FLOW COULD NOT BE AVOIDED. THE INTENTION OF THE DESIGN IS TO MINIMIZE ALTERATIONS TO HYDROLOGY, HOWEVER WHEN DEALING WITH 5%-15% GRADES NOT PARALLEL TO THE CONTOUR, A ROADSIDE DITCH MAY BE REQUIRED. THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSSED WATERWAYS AND VEGETATED WATERWAYS ARE APPLICABLE FOR SIZING AND STABILIZATION. DIMENSIONS FOR THE GRASSSED WATERWAY SPECIFICATION WOULD BE DESIGNED FOR PROJECT SPECIFIC HYDROLOGIC RUNOFF CALCULATIONS, AND A SEPARATE DETAIL FOR THE SPECIFIC GRASSSED WATERWAY WOULD BE INCLUDED IN THIS PRACTICE. RUNOFF DISCHARGE 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.
14. 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 (I.E. BUFFER), 20 FEET WIDE AND PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THIS VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.
15. THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USED 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-0-15-002 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.



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

**AURA SOLAR POWER  
USA, LLC**

**COUNTY ROUTE 10  
CANANDAIGUA  
SOLAR FARM  
PROJECT**

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

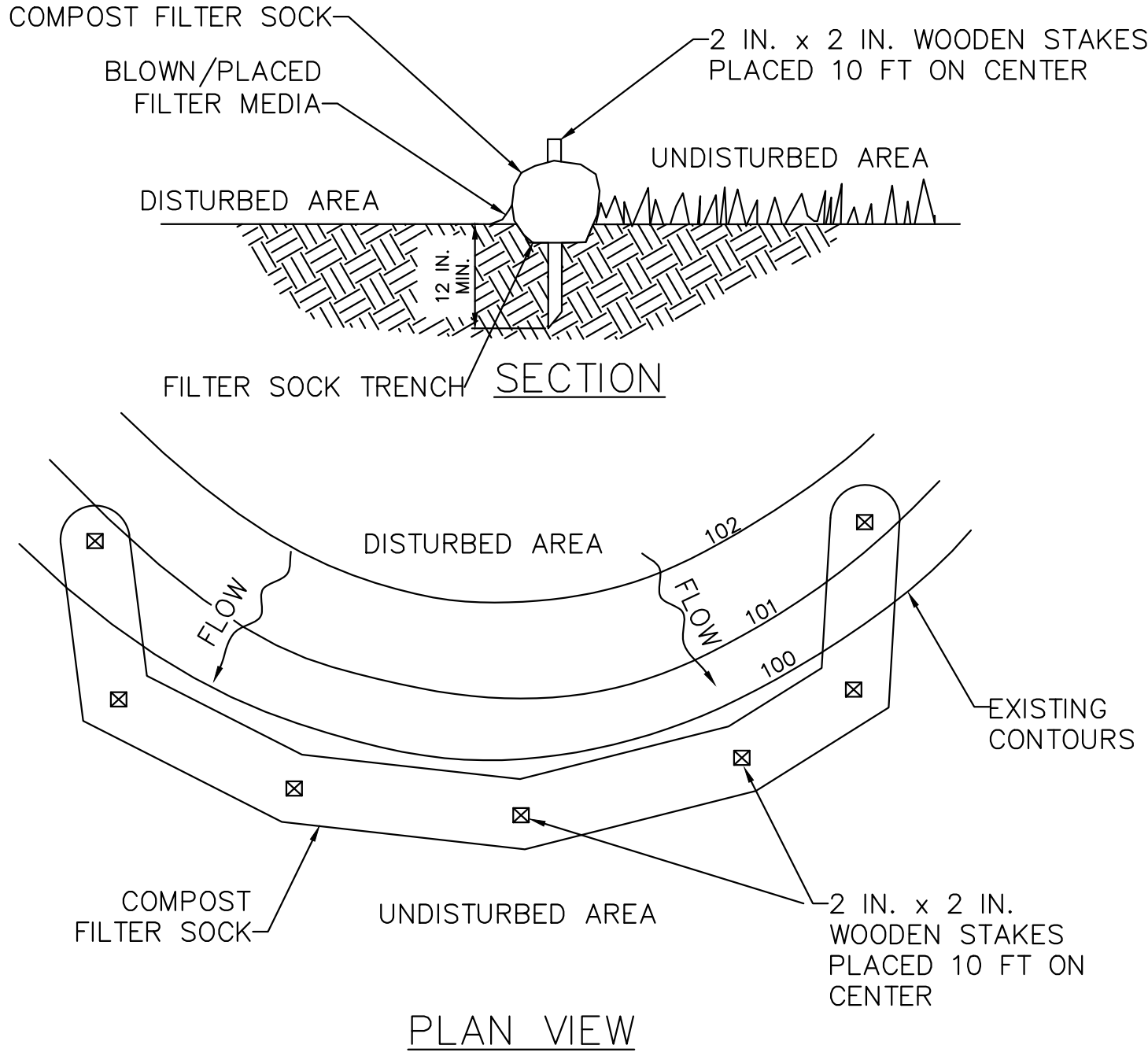
Sheet Name

**GRADING DETAIL  
AND STORMWATER  
PLAN**

Drawing Number

**C008**



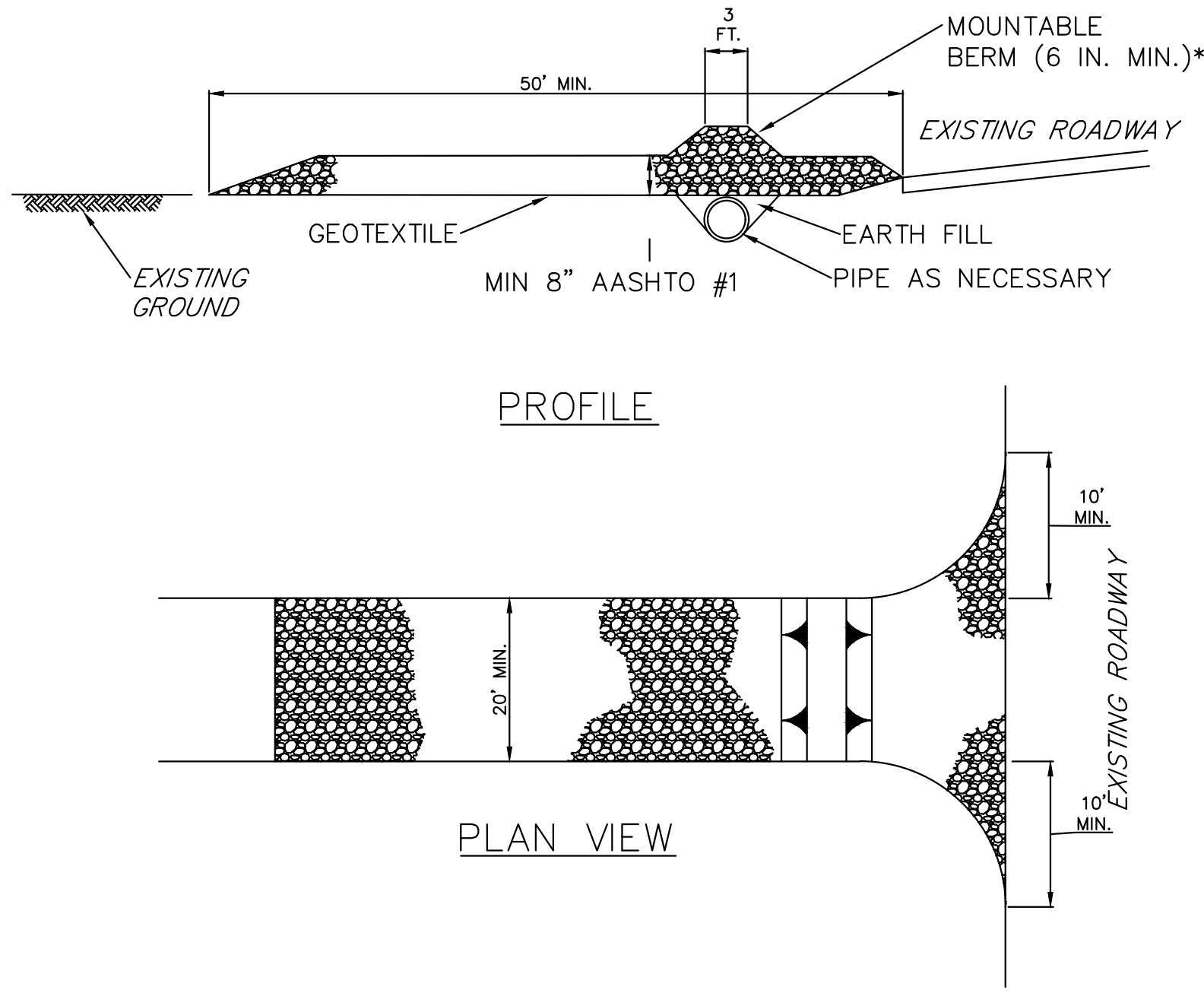


NOTES:

1. SOCK FABRIC AND COMPOST SHALL MEET ALL STATE STANDARDS.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

18" COMPOST FILTER SOCK

NO SCALE



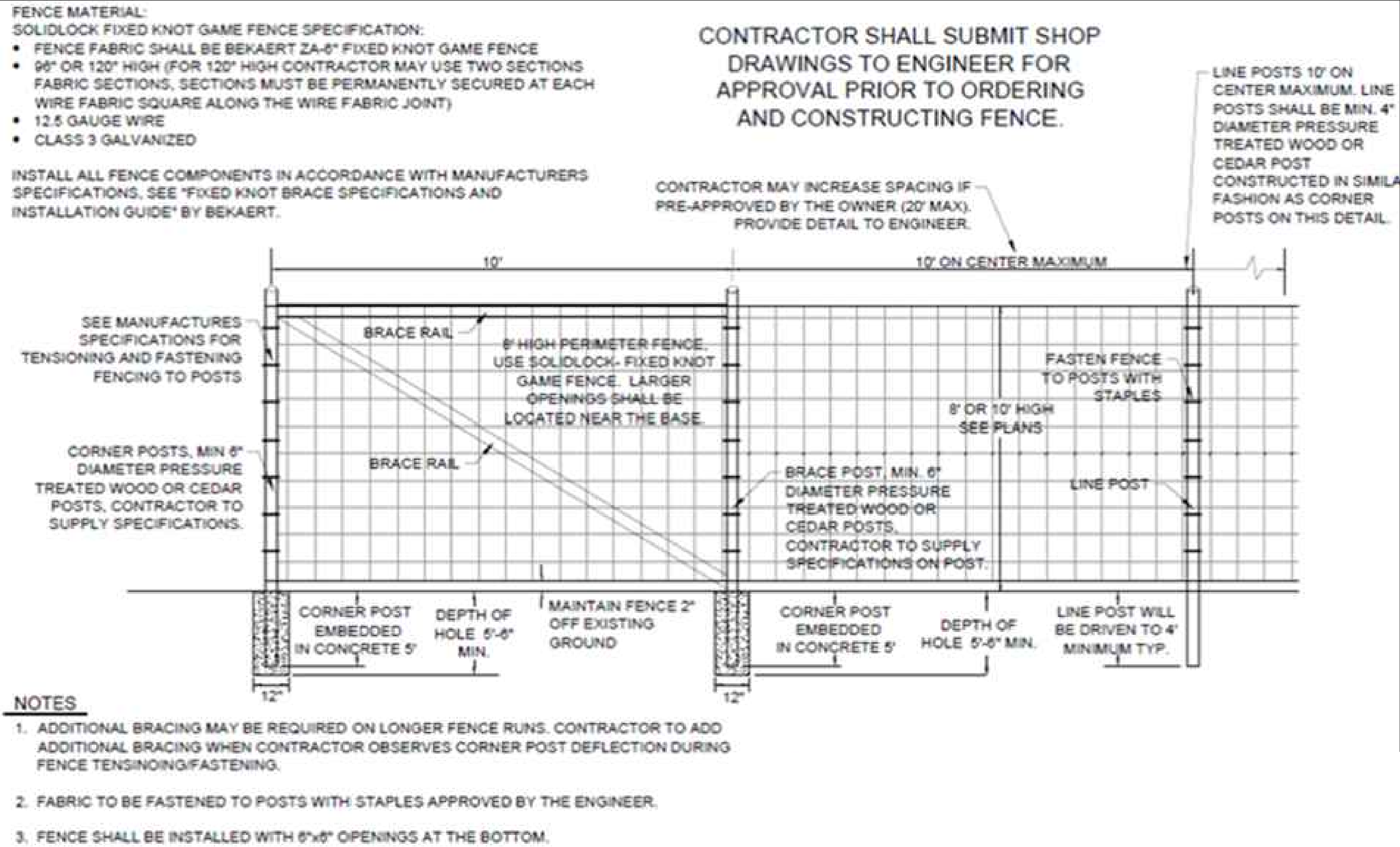
\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STABILIZED CONSTRUCTION ENTRANCE

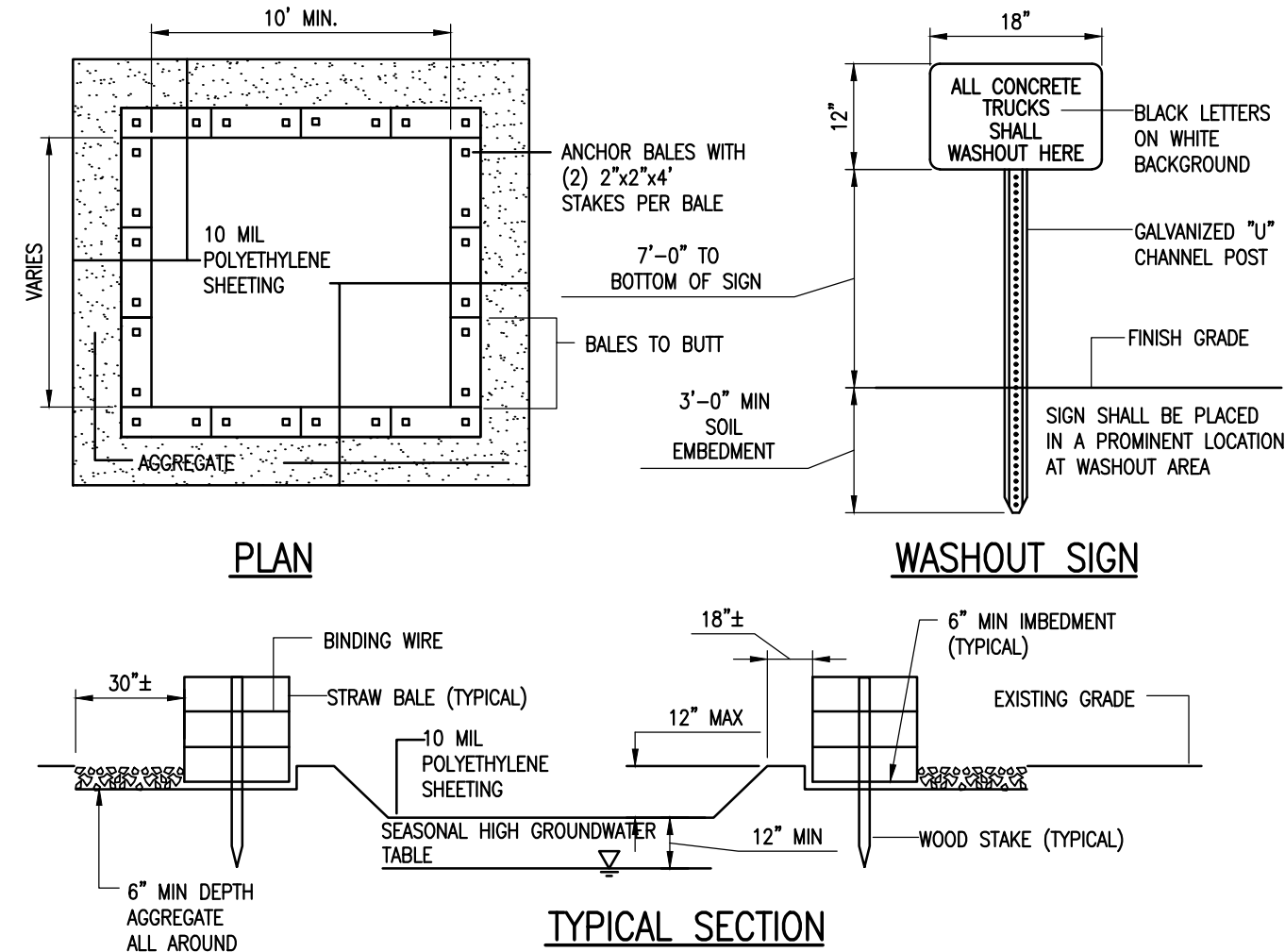
NO SCALE



NOTES:

1. ADDITIONAL BRACING MAY BE REQUIRED ON LONGER FENCE RUNS. CONTRACTOR TO ADD ADDITIONAL BRACING WHEN CONTRACTOR OBSERVES CORNER POST DEFLECTION DURING FENCE TENSINING/FASTENING.
2. FABRIC TO BE FASTENED TO POSTS WITH STAPLES APPROVED BY THE ENGINEER.
3. FENCE SHALL BE INSTALLED WITH 6"x6" OPENINGS AT THE BOTTOM.

PERIMETER FENCE DETAIL

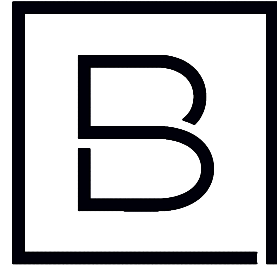


NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

CONCRETE WASHOUT AREA

NOT TO SCALE



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

**AURA SOLAR POWER  
USA, LLC**

**COUNTY ROUTE 10  
CANANDAIGUA  
SOLAR FARM  
PROJECT**

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
<b>RPS</b>	<b>RPS</b>
Designer	Reviewer
<b>HB</b>	<b>RPS</b>
Date Issued	Project Number
<b>02/09/2021</b>	<b>15066.00</b>

Sheet Name

**DETAILS I**

Drawing Number

**C009**

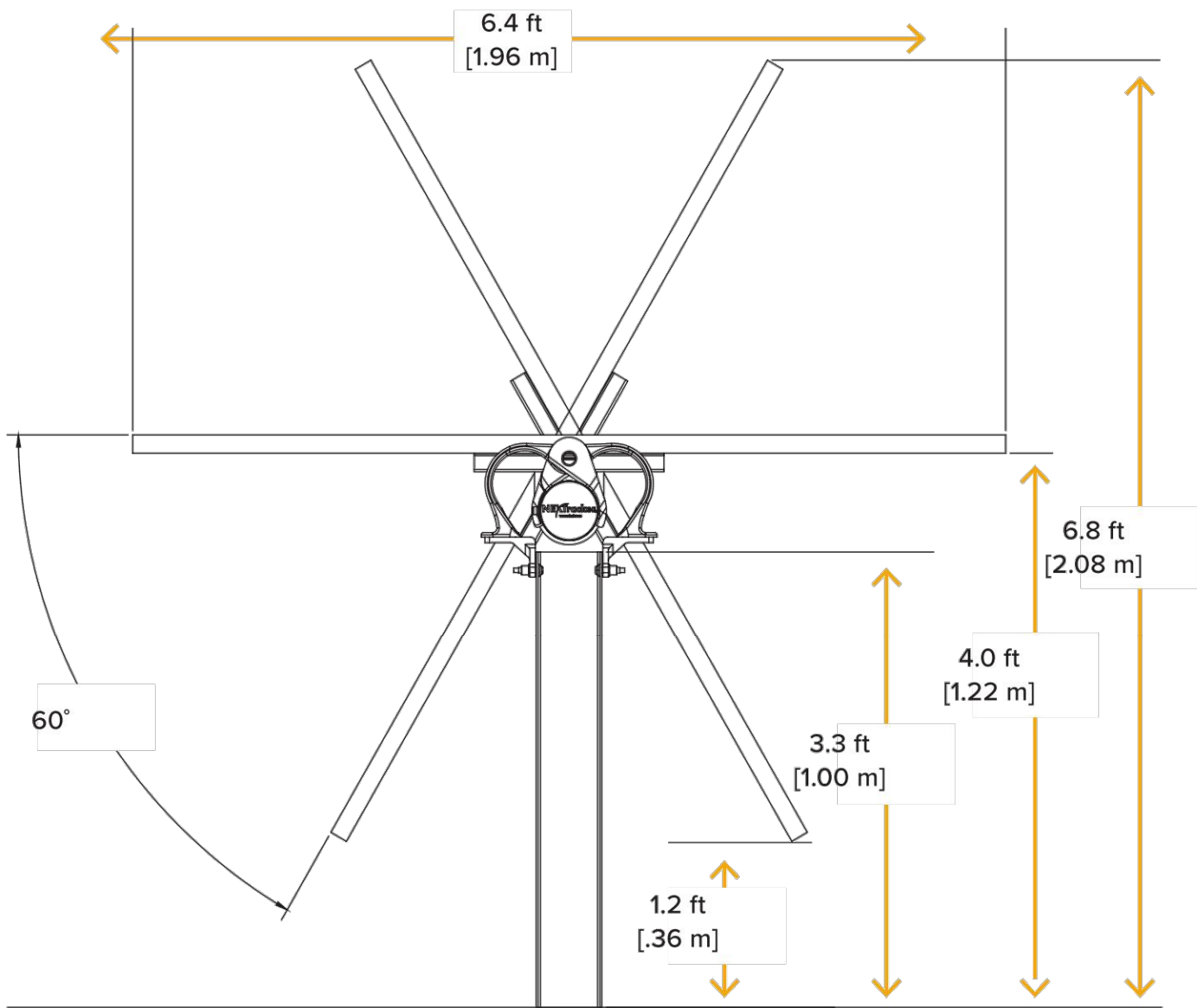


ARCH D 24x36

C:\3192020\015066.00 Aura Solar Power-Canandaigua Solar\4.0 Dwg\4.1 Civil\007 - Details.dwg

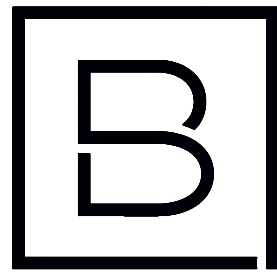
3/8/2021 4:01 PM

Typical 72-cell c-Si configuration: 85 m row with 80 panels mounted in portrait:



TRACKER PANEL DETAIL

NO SCALE



BERGMANN

ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannpc.com  
office: 585.232.5135

AURA SOLAR POWER  
USA, LLC

COUNTY ROUTE 10  
CANANDAIGUA  
SOLAR FARM  
PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
RPS	RPS
Designer	Reviewer
HB	RPS
Date Issued	Project Number
02/09/2021	15066.00

Sheet Name

DETAILS II

Drawing Number

C010



Upland Seed Mix		
Low-Growing Wildflower & Grass Mix - ERNMX #156		
Seeding Rate: 20 lb per acre with a cover crop of grain rye at 30 lb per acre		
SCIENTIFIC NAME	COMMON NAME	% OF MIX
Festuca ovina	Sheep Fescue, Variety Not Stated	63.60%
Lolium multiflorum (L. perenne var. italicum)	Annual Ryegrass	17%
Linum perenne ssp. lewisii	Perennial Blue Flax	8%
Rudbeckia hirta	Blackeyed Susan, Coastal Plain NC Ecotype	2%
Coreopsis lanceolata	Lanceleaf Coreopsis, Coastal Plain NC Ecotype	2%
Chrysanthemum leucanthemum	Oxeye Daisy	2%
Chrysanthemum maximum	Shasta Daisy	1%
Chamaecrista fasciculata (Cassia f.)	Partridge Pea, PA Ecotype	1%
Papaver rhoeas, Shirley Mix	Corn Poppy/Shirley Mix	1%
Achillea millefolium	Common Yarrow	0.5%
Aster oblongifolius (Symphyotrichum oblongifolium)	Aromatic Aster, PA Ecotype	0.5%
Eupatorium coelestinum (Conoclinium c.)	Mistflower, VA Ecotype	0.5%
Monarda punctata, Coastal Plain SC Ecotype	Spotted Beebalm, Coastal Plain SC Ecotype	0.5%
Asclepias tuberosa	Butterfly Milkweed	0.3%
Pycnanthemum tenuifolium	Slender Mountainmint	0.1%
Company Information		
Ernst Conservation Seeds, Inc.		
Address: 8884 Mercer Pike, Meadville, PA 16335		
Phone: (800) 873-3321		
Web: http://www.ernstseed.com		

\*OR APPROVED EQUIVALENT

Rain Garden Grass Seed Mix		
Rain Garden Grass Mix - ERNMX #180-1		
Seeding Rate: 15 lb per acre with a cover crop of grain rye at 30 lb per acre		
SCIENTIFIC NAME	COMMON NAME	% OF MIX
Schizachyrium scoparium	Little Bluestem, 'Camper'	45%
Elymus virginicus	Virginia Wildrye	20%
Panicum rigidulum	Redtop Panicgrass	8%
Agrostis perennans	Autumn Bentgrass	7%
Carex vulpinoidea	Fox Sedge	5%
Juncus effusus	Soft Rush	1%
Carex scoparia	Blunt Broom Sedge	0.5%
Company Information		
Ernst Conservation Seeds, Inc.		
Address: 8884 Mercer Pike, Meadville, PA 16335		
Phone: (800) 873-3321		
Web: http://www.ernstseed.com		

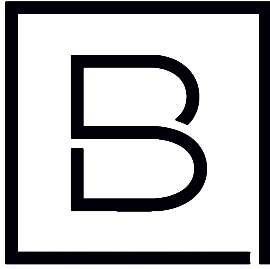
\*OR APPROVED EQUIVALENT

SOIL AMENDMENT APPLICATION RATE EQUIVALENTS					
TEMPORARY/PERMANENT SEEDING	SOIL AMENDMENT	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	NOTES
	AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST: MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
	10-10-20 FERTILIZER	1,000 L.B.	25 LB.	210 LB.	
	AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
	10-10-20 FERTILIZER	500 LB.	12.5 LB.	100 LB.	
COMPOST STANDARDS					
ORGANIC MATTER CONTENT			80% - 100% (DRY WEIGHT BASIS)		
ORGANIC PORTION			FIBROUS AND ELONGATED		
pH			5.5 - 8.0		
MOISTURE CONTENT			35% - 55%		
PARTICLE SIZE			98% PASS THROUGH 1" SCREEN		
SOLUBLE SALT CONCENTRATION			5.0 dS/m (mmhos/cm) MAXIMUM		
MULCH APPLICATION RATES					
MULCH TYPE	APPLICATION RATE (MIN.)			NOTES	
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.		
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN	
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY, OR OTHER NATIVE FORAGE GRASSES	
WOOD CELLULOSE	1,500 LB.	35 LB.	310 LB.	DO NOT USE ALONE IN WINTER, DURING HOT AND DRY WEATHER OR ON STEEP SLOPES (> 3:1)	
WOOD	1,000 LB. CELLULOSE	25 LB.	210 LB.	WHEN USED OVER STRAW OR HAY	
WOOD CHIPS	4 - 6 TONS	185 - 275 LB.	1,650 - 2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES	

NOTES:

- WHEN FINAL GRADE IS ACHIEVED DURING NON–GERMINATING MONTHS, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
- MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE. VERY LITTLE BARE GROUND SHOULD BE VISIBLE THROUGH THE MULCH.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
- TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 INCHES MINIMUM. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE.
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OF SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE 1/2" TO 3/4". COMPOST SHOULD BE PLACED EVENLY AND SHOULD PROVIDE 100% SOIL COVERAGE. NO SOIL SHOULD BE VISIBLE.
- BLANKETING SHALL BE USED ON ALL SLOPES 3H:1V OR STEEPER OR AS NOTED ON THE PLANS.
- PERMANENT STABILIZATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE.
- WETLAND SEED MIX SHOULD BE INSTALLED ONLY IN DRY SWALE.

SITE STABILIZATION – SEED MIX



BERGMANN  
ARCHITECTS ENGINEERS PLANNERS

280 E Broad St, Suite 200  
Rochester, NY 14604  
www.bergmannnpc.com  
office: 585.232.5135

AURA SOLAR POWER  
USA, LLC

COUNTY ROUTE 10  
CANANDAIGUA  
SOLAR FARM  
PROJECT

COUNTY ROAD 10  
CANANDAIGUA, NY 14424

Date Revised	Description
3/10/2021	Per Town Comments



Note:  
Unauthorized alteration or addition to this drawing is a violation of  
the New York State Education Law Article 145, Section 7209.

Project Manager	Discipline Lead
RPS	RPS
Designer	Reviewer
HB	RPS
Date Issued	Project Number
02/09/2021	15066.00

Sheet Name

DETAILS III

Drawing Number

C011