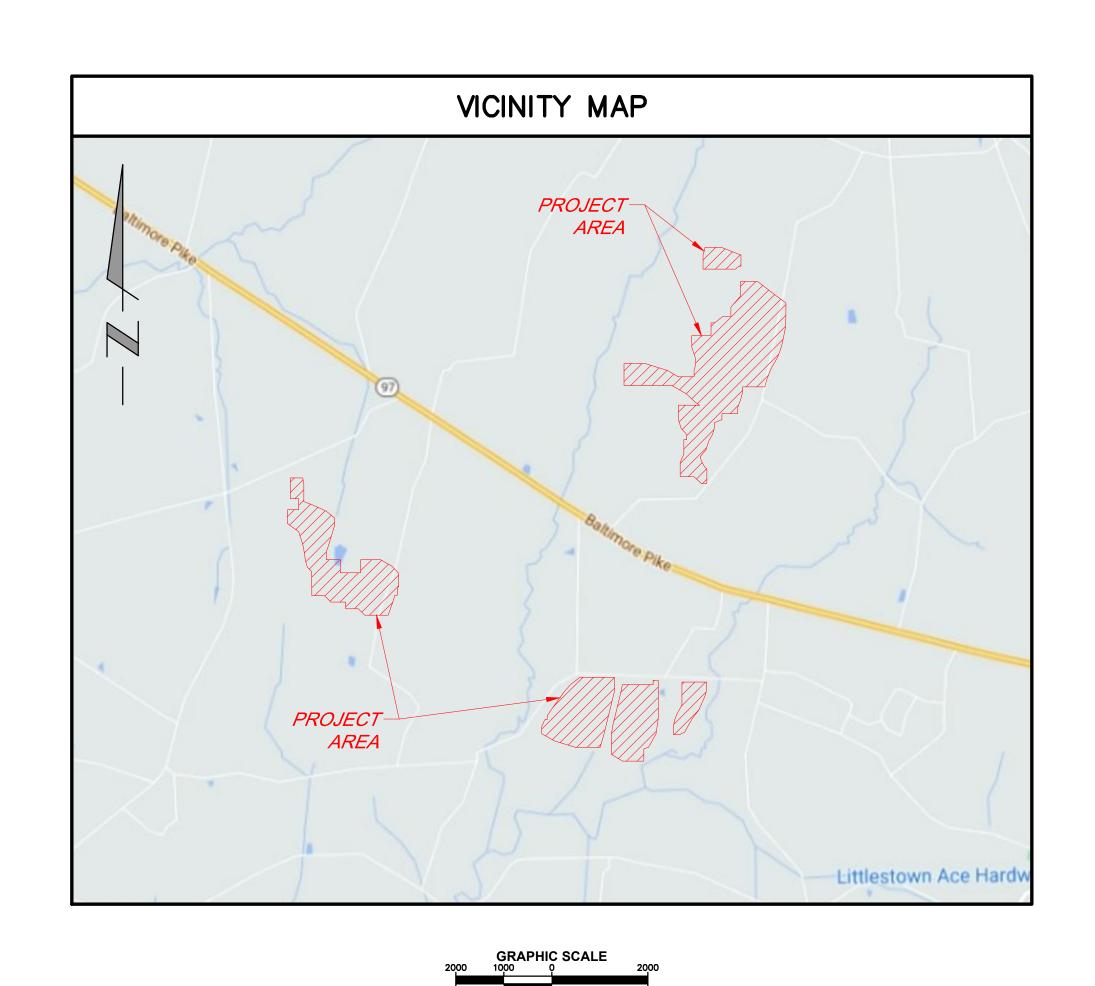
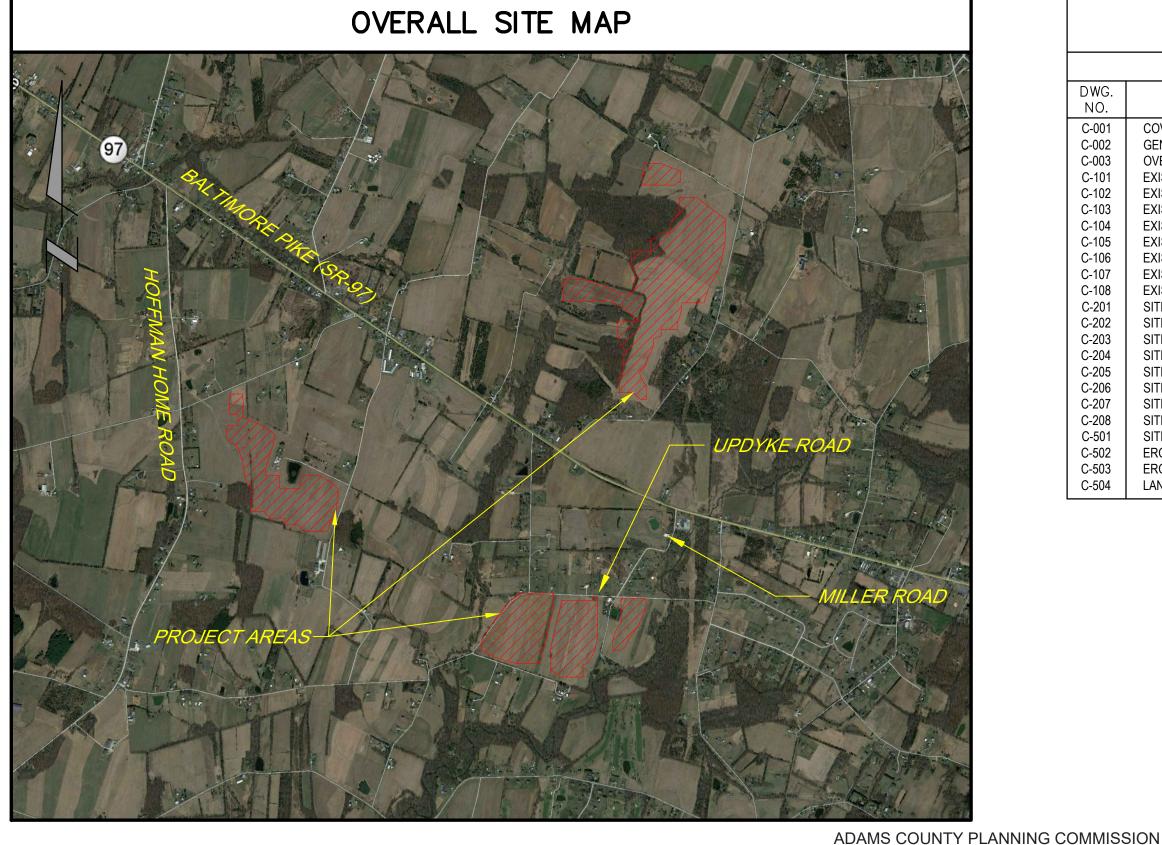
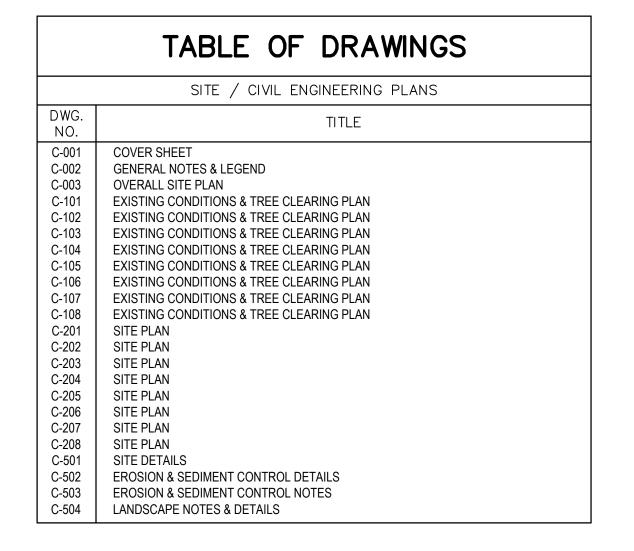
BROOKVIEW SOLAR I, LLC. - SOLAR PROJECT PRELIMINARY LAND DEVELOPMENT PLAN AGRICULTURAL CONSERVATION ZONING DISTRICT

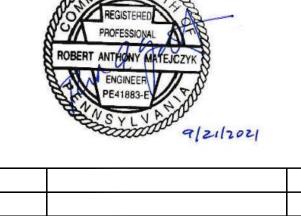
MT. JOY TOWNSHIP PLANNING COMMISSION MT. JOY TOWNSHIP, ADAMS COUNTY, PENNSYLVANIA SEPTEMBER 2021







20___ BY THE ADAMS COUNTY PLANNING COMMISSION, ADAMS COUNTY



| NO. | REVISION | DATE |
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Tel: 717-671-6430

BROOKVIEW SOLAR I, LLC. 700 UNIVERSE BLVD. JUNO BEACH, FL 32408

PRELIMINARY LAND DEVELOPMENT PLAN BROOKVIEW SOLAR I, LLC. SOLAR PROJECT MT. JOY TOWNSHIP, PA

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| PERMITTING ONLY. |
| NOT INTENDED |
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| CONSTRUCTION |
| OR BIDDING |

PURPOSES.

DATE: 09/21/2021 DRAWN BY: MKS/JJN DRAWING NO. C-001

AS SHOWN



PENNSYLVANIA.

MOUNT JOY TOWNSHIP

AGRICULTURAL CONSERVATION (AC) ZONING DISTRICT SETBACK REQUIREMENTS

| MIN. LOT AREA | MIN. LO | T WIDTH | MIN. FRONT Y | ARD SETBACK | MIN. REAR YA | RD SETBACK | MIN. SIDE YA | RD SETBACK | MAX. HEIGHT O | F SOLAR ARRAY |
|-----------------------|----------|-----------|--------------|-------------|--------------|------------|--------------|------------|---------------|---------------|
| WIIN. LOT ARLA | REQUIRED | PROVIDED | REQUIRED | PROVIDED | REQUIRED | PROVIDED | REQUIRED | PROVIDED | REQUIRED | PROVIDED |
| 3 ACRES (130,680 SF.) | 250' | 250' MIN. | 30' | 30' MIN. | 25' | 25' MIN. | 10' | 10' MIN. | 35' | 18' MAX. |
| | | | | | | | | | | |
| NOTES: | | | | | | | | | | |

1. DIMENSIONAL REQUIREMENTS SHOWN ABOVE ARE PER CHAPTER 110, ZONING SECTION 110-302.

2. 50' RESIDENTIAL ZONING DISTRICT SETBACK (PER CHAPTER 110, ZONING SECTION 110-402.II(4)):

THE SOLAR ENERGY SYSTEM SHALL BE NO CLOSER THAT 50' FROM THE LOT LINE OF AN ADJACENT LOT IMPROVED WITH A DWELLING OR AN UNIMPROVED LOT IN A RESIDENTIAL ZONING DISTRICT; PROVIDED THAT THE SETBACK SHALL NOT APPLY TO A SHARED PROPERTY LINE OF PROPERTIES HOSTING A SINGLE SOLAR ENERGY SYSTEM.

3. 25' RESIDENTIAL ZONING DISTRICT & PUBLIC RIGHT-OF-WAY PLANTED BUFFER (PER CHAPTER 110, ZONING SECTION 110-402.II(8)):

A BUFFER NO LESS THAT 25' IN DEPTH SHALL BE REQUIRED ALONG (i) ANY PUBLIC ROAD FRONTAGE AND (ii) ANY LOT LINE ADJACENT TO A LOT IMPROVED WITH A DWELLING OR AN UNIMPROVED LOT IN A RESIDENTIAL ZONING DISTRICT, PROVIDED THAT THE BUFFER ALONG A LOT LINE SHALL NOT APPLY TO LOTS HOSTING A SINGLE SOLAR ENERGY SYSTEM. WHERE THE SITING OF THE SOLAR ENERGY SYSTEM REQQUIRES THE BUFFER TO BE SITED IN THE IMMEDIATE PROXIMITY OF A PUBLIC ROAD, THE REQUIRED BUFFER SHALL BE MEASURED FROM THE EXISTING RIGHT-OF-WAY OR FROM THE MINIMUM FUTURE RIGHT-OF-WAY, WHICHEVER IS LARGER.

GENERAL NOTES

- 1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE INSTALLATION OF A SOLAR GENERATION FACILITY.
- 2. EXISTING TOPOGRAPHIC DATA TAKEN FROM ADAMS COUNTY, PA PUBLICLY-AVAILABLE LIDAR SURVEY INFORMATION.

CONSTRUCTION NOTES

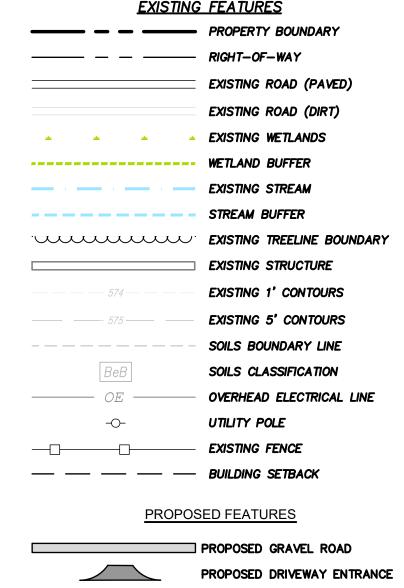
- 1. CONTRACTOR SHALL CALL THE PA ONE CALL SYSTEM, INC., AT 1-800-242-1776 AT LEAST 72 HOURS (SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED) PRIOR TO EXCAVATING AT ANY LOCATION.
- 2. A COPY OF THE PA ONE CALL SYSTEM, INC. PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
- 3. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, OR EXCAVATE WITHOUT APPROPRIATE PERMITS.
- 4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING STREET OCCUPANCY; STREET OPENINGS; AND TRENCH PERMITS FROM THE LOCAL DPW/HIGHWAY DEPT. BEFORE CONSTRUCTION.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY: CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 6. CONTRACTOR SHALL ENSURE THE MAINTENANCE OF SAFETY AND TRAFFIC FLOW ON THE PUBLIC AND PRIVATE WAYS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. THE CONSTRUCTION SITE MUST BE ACCESSIBLE TO EMERGENCY VEHICLES AT ALL TIMES.
- 7. CONTRACTOR SHALL CAREFULLY COORDINATE ALL WORK WITH THAT OF THEIR SUBCONTRACTOR, THE OWNER'S REPRESENTATIVE, OTHER CONTRACTORS WORKING WITHIN THE PROJECT LIMITS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE LIMITS OF WORK IN THE FIELD BASED ON THE SITE PLAN AND ANY EXISTING CONDITIONS SURVEY INFORMATION THAT MAY BE PROVIDED BY THE OWNER.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE LINE AND GRADE OF ALL EARTHWORK INCLUDING SITE GRADING AND ACCESS ROADS. ALL SURVEY WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A PENNSYLVANIA-LICENSED PROFESSIONAL LAND SURVEYOR.
- 10. CONTRACTOR WILL PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN NEW AND EXISTING PAVEMENTS.
- 11. TRAFFIC SIGNAGE SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL PAVEMENT MARKINGS CHANGED, ALTERED OR REMOVED SHALL BE RE-APPLIED.
- 12. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 13. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY CONTRACTOR'S OPERATIONS, TO INCLUDE DELIVERIES AND CONSTRUCTION LOAD DAMAGE, SHALL BE RESTORED BY CONTRACTOR TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- 14. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH CRUSHED STONE SHALL RECEIVE LOAM AND SEED AS NEEDED.
- 15. CONTRACTOR SHALL NOT PERFORM ANY WORK ON PROPERTIES ADJACENT TO THE SITE AND SHALL USE BEST EFFORTS TO MINIMIZE DISRUPTION TO THOSE ADJACENT PROPERTIES (INCLUDING SEDIMENT CONTROL, DUST CONTROL, TRASH CONTROL, AND NOISE CONTROL). CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF ADJACENT PROPERTIES ARE AFFECTED.
- 16. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO DRAINAGE SYSTEM: OFF SITE AREAS; AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER AND ADAMS COUNTY. THE PROPOSED WORK SHALL NOT ALTER EXISTING DRAINAGE PATTERNS. SEE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSM).
- 17. FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN ON THESE PLANS.
- 18. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY OWNER'S REPRESENTATIVE.
- 19. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
- 20. ALL PAVEMENT DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE REPLACED TO MATCH EXISTING.
- 21. CONTRACTOR SHALL COMPLETE ALL STAKEOUT, SURVEYS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AS SHOWN AND AS SPECIFIED.
- 22. INLET PROTECTION SHALL BE PROVIDED ON ALL CATCH BASINS FOR THE DURATION OF THE PROJECT.
- 23. ANY CHANGES TO THE PLAN SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE.
- 24. CONTRACTOR SHALL PERFORM CONTINUOUS MONITORING AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD AND IN ACCORDANCE WITH THE PERMITS.

SITE DEMOLITION/REMOVAL NOTES

- 1. UTILITIES REQUIRING INTERRUPTION, CAPPING OR REMOVAL EXISTING SEWER, WATER AND ELECTRIC UTILITY LINES, AS WELL AS STRUCTURES WITHIN THE CONTRACT AREA SHALL REMAIN AND BE PROTECTED FROM DAMAGE FROM CONSTRUCTION ACTIVITY, UNLESS REMOVAL OF SAME IS SPECIFICALLY NOTED.
- 2. ADDITIONAL UTILITIES MAY EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL USE CAUTION WHILE WORKING NEAR THESE UTILITIES TO AVOID DAMAGE TO THEM DURING CONSTRUCTION. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER.
- 3. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF ANY ABANDONED PIPES AND/OR UTILITIES WHICH ARE NOT NOTED ON THE SURVEY BUT ARE ENCOUNTERED DURING EXCAVATION.
- 4. CONTRACTOR SHALL REPLACE ANY EXISTING CURBS OR PAVEMENTS THAT WERE INTENDED TO REMAIN BUT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION. IF REPLACEMENT IS NECESSARY, IT SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR SHALL REMOVE, EXCAVATE, AND DISPOSE OF ALL MATERIALS ACCORDING TO THE PROJECT SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK.

PARCEL OWNER SUMMARY TABLE

| Parcel # | Parcel Owner | Address | Lot Size | Parcel ID | Deed Ref. |
|----------|-----------------------------------|---|--------------|-----------------|-----------|
| 1 | Kinsella Living Trust | 345 Bowers Rd, Littlestown, PA, 17340 | 85.9 Acres | 30H16-0050A000 | 6814-0245 |
| 2 | Millard E & Deborah K Basehoar II | 508-694 Plunkert Road, Littlestown, PA, 17340 | 118.1 Acres | 30H16-0001A000 | 4696-171 |
| 3 | Kenneth A & Linda W Hilbert | 4004 Baltimore Pike, Littlestown, PA, 17340 | 76.0 Acres | 30H16-0048000 | 299-003 |
| 5 | Gary Basehoar | 204-322 Plunkert Road, Littlestown, PA, 17340 | 62.39 Acres | 30I16-0007E000 | 6542-664 |
| 8 | Robert W & Ruth E Diehl | 70 Miller Rd, Littlestown, PA, 17340 | 11.884 Acres | 30116-0040000 | 501-1119 |
| 9 | Julia Paulette Ottey | 310 Updyke Rd, Littlestown, PA, 17340 | 16.26 Acres | 15 17-0214000 | 5955-0137 |
| 10 | David R & Leslie R Updyke | 165 Updyke Rd, Littlestown, PA, 17340 | 146.21 Acres | 30117-0041000 | 2513-145 |
| 13 | Samuel T Hartlaub | 655 California Rd, Littlestown, PA, 17340 | 34.64 Acres | 30H17-0007000 | 5221-224 |
| 14 | Dorcas Ann Shelly | 460 California Rd, Littlestown, PA, 17340 | 14.62 Acres | 30H17-0006A000 | 5950-81 |
| 15 | R Glenn & Barbara J Snyder | 319 California Rd, Littlestown, PA, 17340 | 70.2 Acres | 30H16-0092000 | 303-258 |
| 16 | Michael J & Nora L Keller | 242-386 Speelman Klinger Rd, Littlestown, PA, 17340 | 47.97 Acres | 30H16—0056C-000 | 2701-319 |
| | | TOTAL | 684.17 Acres | | |



PROPOSED DRIVEWAY ENTRANCE
PROPOSED FENCE
PROPOSED SOLAR ARRAY

PROPOSED TREELINE
PROPOSED EQUIPMENT PAD
WITH PV INVERTERS,
TRANSFORMERS, & AUXILIARY
EQUIPMENT
PROPOSED COMPOST
FILTER SOCK
PROPOSED ROCK

PROPOSED SOIL STOCKPILE

PROPOSED CONCRETE WASHOUT

CONSTRUCTION ENTRANCE

PROPOSED CONSTRUCTION LAYDOWN AREA

REGISTERED
PROFESSIONAL
ROBERT ANTHONY MATEJCZYK
ENGINEER
PE41883-E
PE41883-E
PE41202

NO. REVISION DATE



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BROOKVIEW SOLAR I, LLC. 700 UNIVERSE BLVD. JUNO BEACH, FL 32408

PRELIMINARY LAND
DEVELOPMENT PLAN
BROOKVIEW SOLAR I, LLC.
SOLAR PROJECT
MT. JOY TOWNSHIP, PA

DRAWING TITLE:

GENERAL NOTES & LEGEND

SCALE:

ISSUE FOR
PERMITTING ONLY
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CONSTRUCTION
OR BIDDING
PURPOSES.

DATE: 09/21/2021

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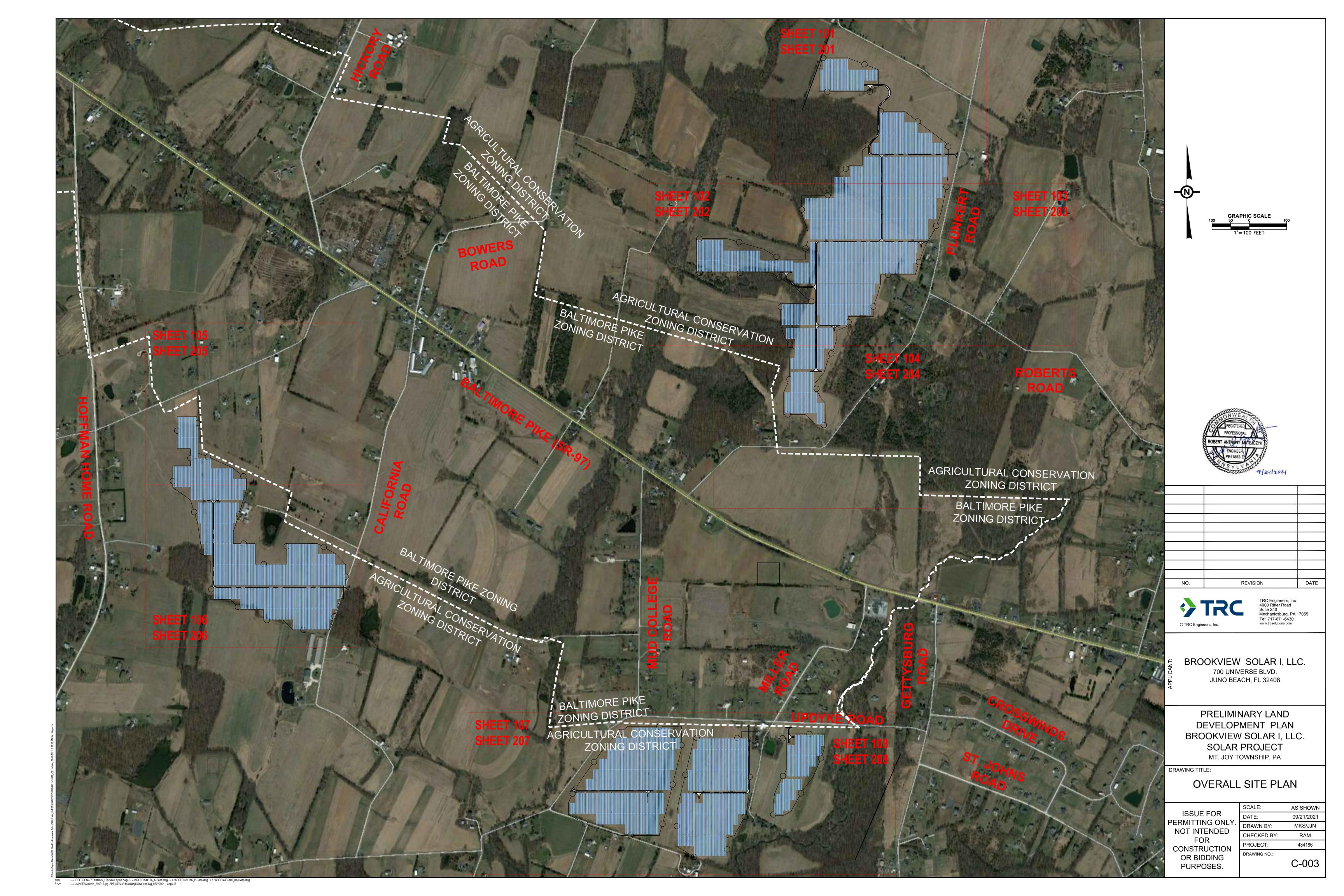
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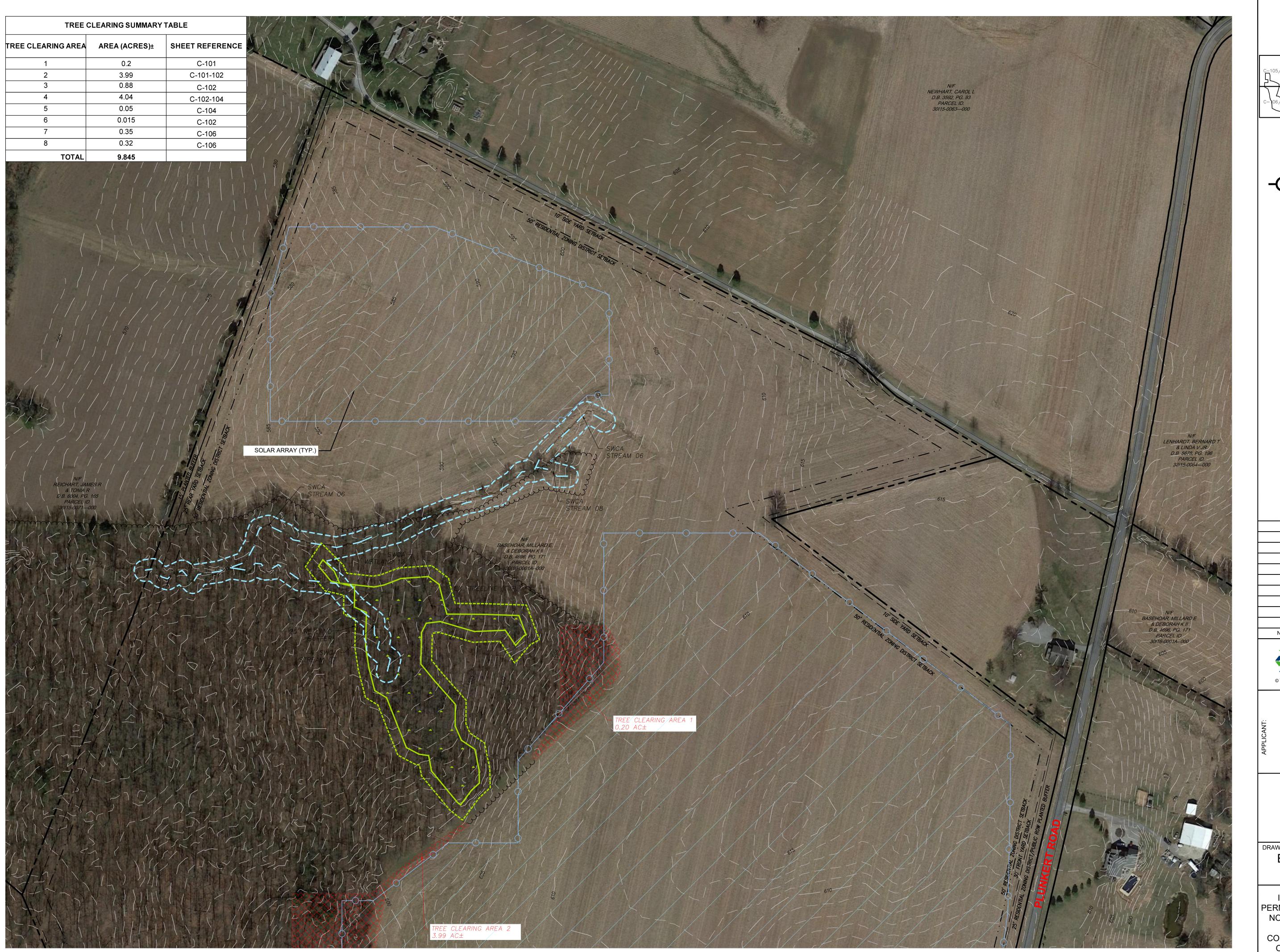
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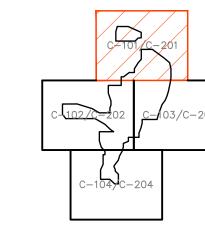
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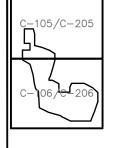
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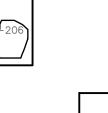




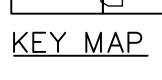
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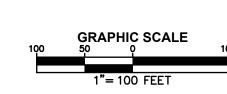














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PRELIMINARY LAND
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BROOKVIEW SOLAR I, LLC.
SOLAR PROJECT
MT. JOY TOWNSHIP, PA

DRAWING TITLE:

EXISTING CONDITIONS & TREE CLEARING PLAN

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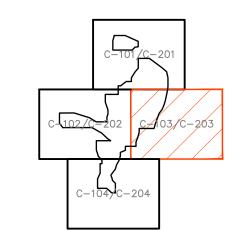
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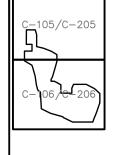
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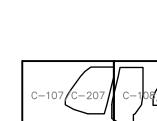


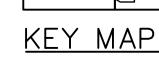


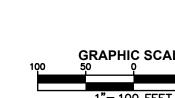
MATCHLINE (SEE SHEET 104)













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PRELIMINARY LAND
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SOLAR PROJECT
MT. JOY TOWNSHIP, PA

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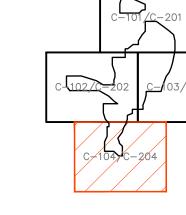
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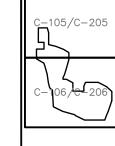
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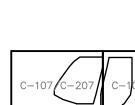
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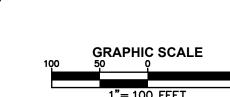














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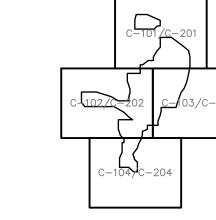
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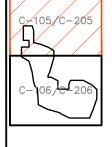
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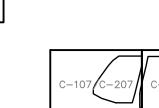
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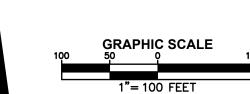
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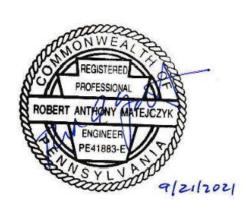












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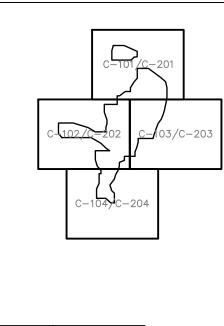
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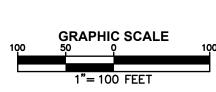
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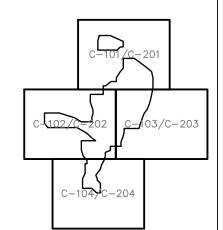
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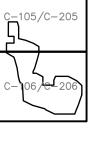
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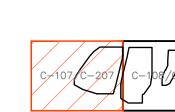
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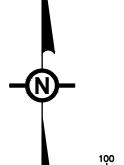
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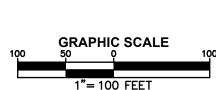














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PRELIMINARY LAND DEVELOPMENT PLAN BROOKVIEW SOLAR I, LLC. SOLAR PROJECT MT. JOY TOWNSHIP, PA

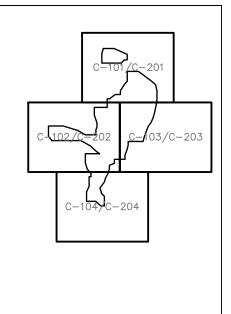
EXISTING CONDITIONS & TREE CLEARING PLAN

ISSUE FOR PERMITTING ONLY NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES.

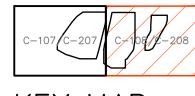
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| | DATE: | 09/21/2021 |
| | DRAWN BY: | MKS/JJN |
| | CHECKED BY: | RAM |
| J | PROJECT: | 434186 |
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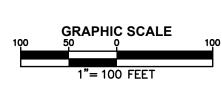














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BROOKVIEW SOLAR I, LLC. 700 UNIVERSE BLVD. JUNO BEACH, FL 32408

TRC Engineers, Inc. 4900 Ritter Road Suite 240 Mechanicsburg, PA 17055 Tel: 717-671-6430 www.trcsolutions.com

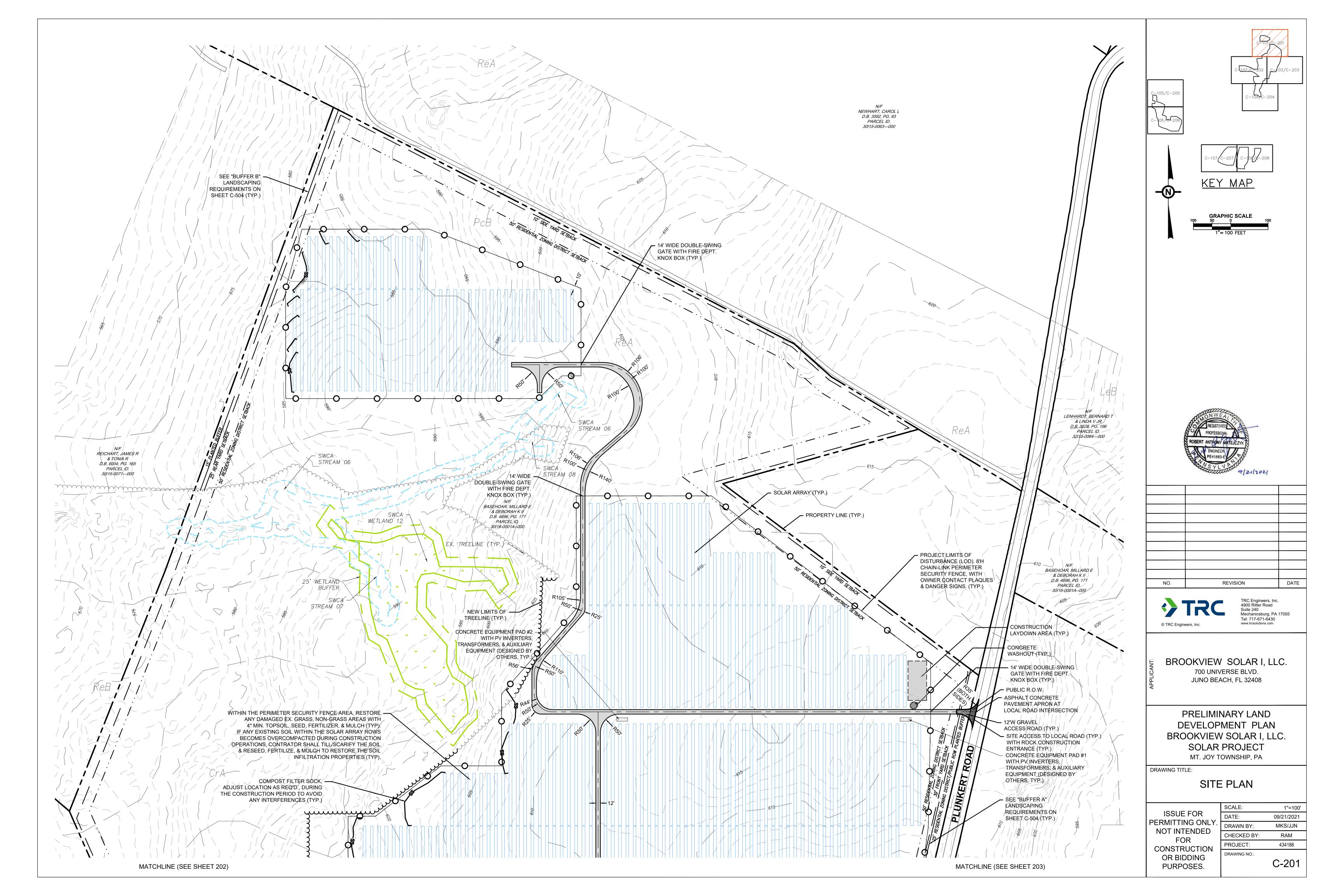
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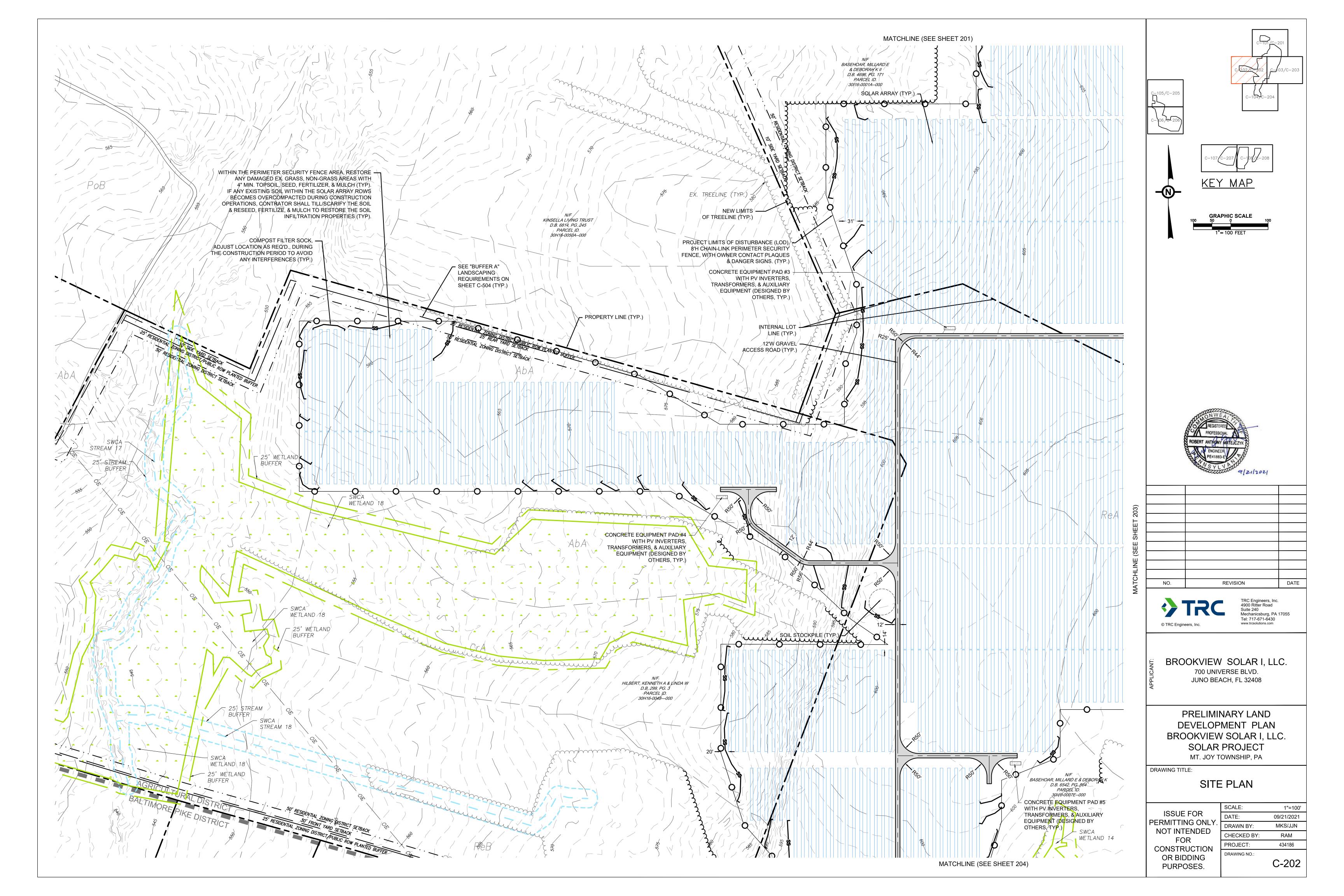
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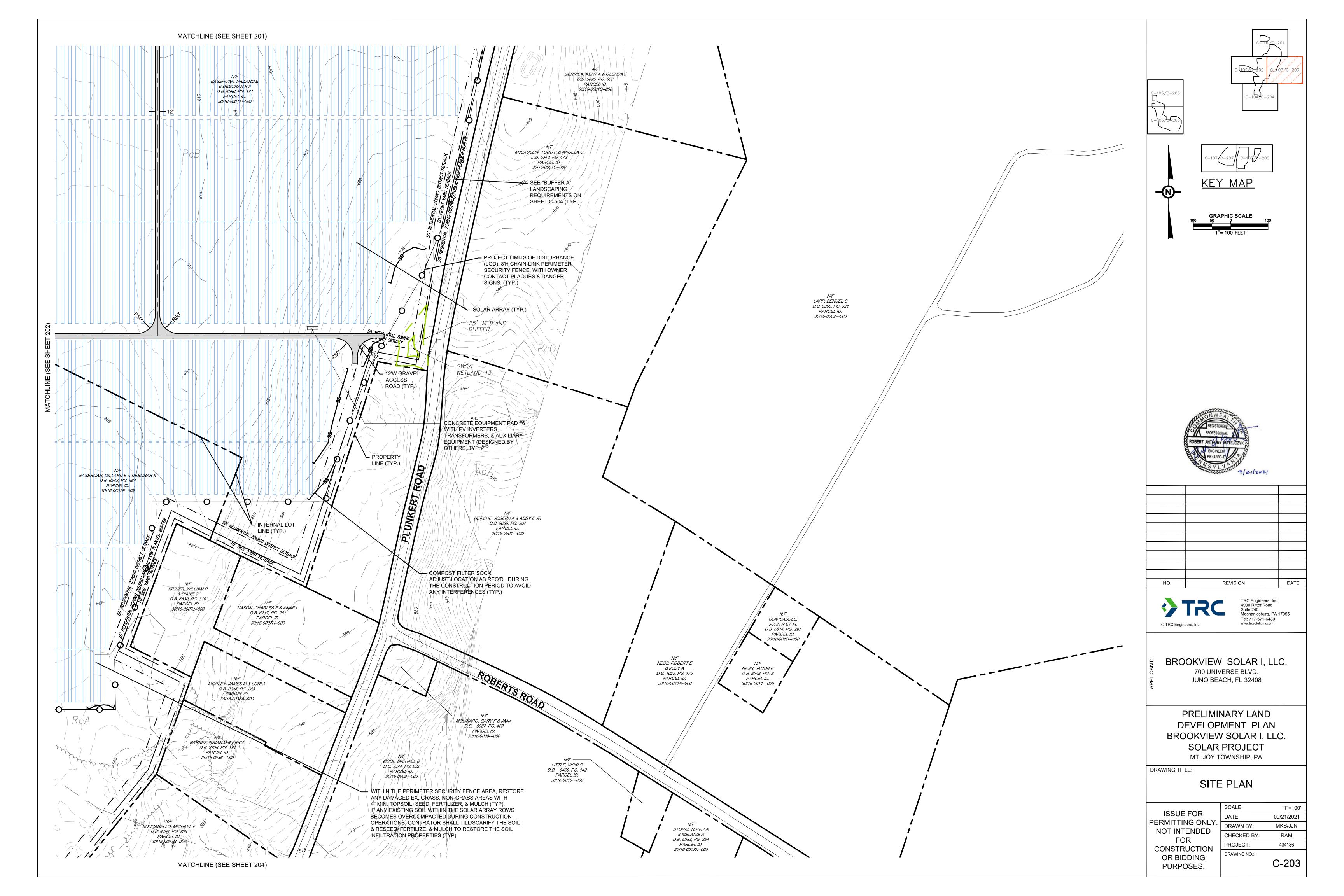
EXISTING CONDITIONS & TREE CLEARING PLAN

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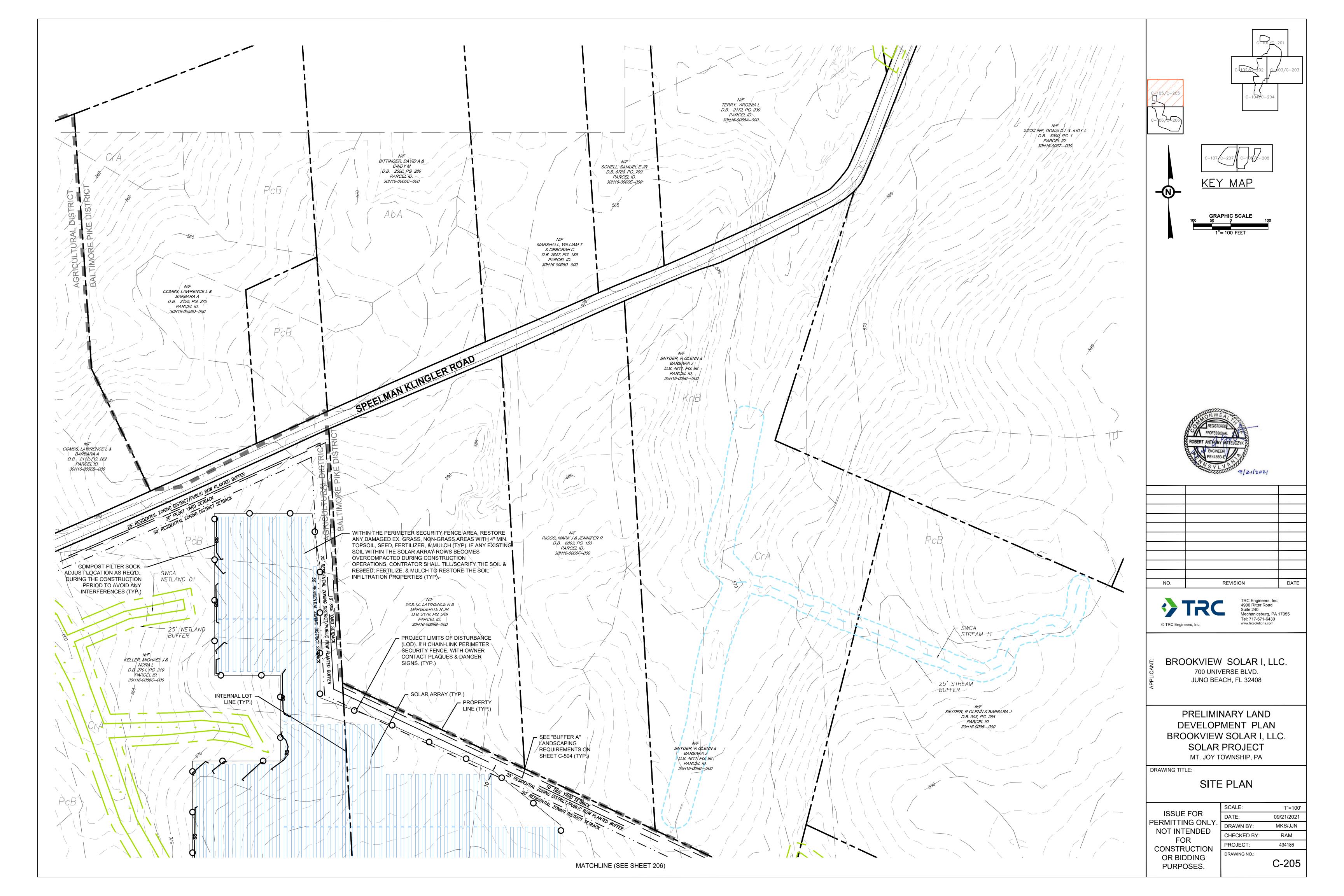
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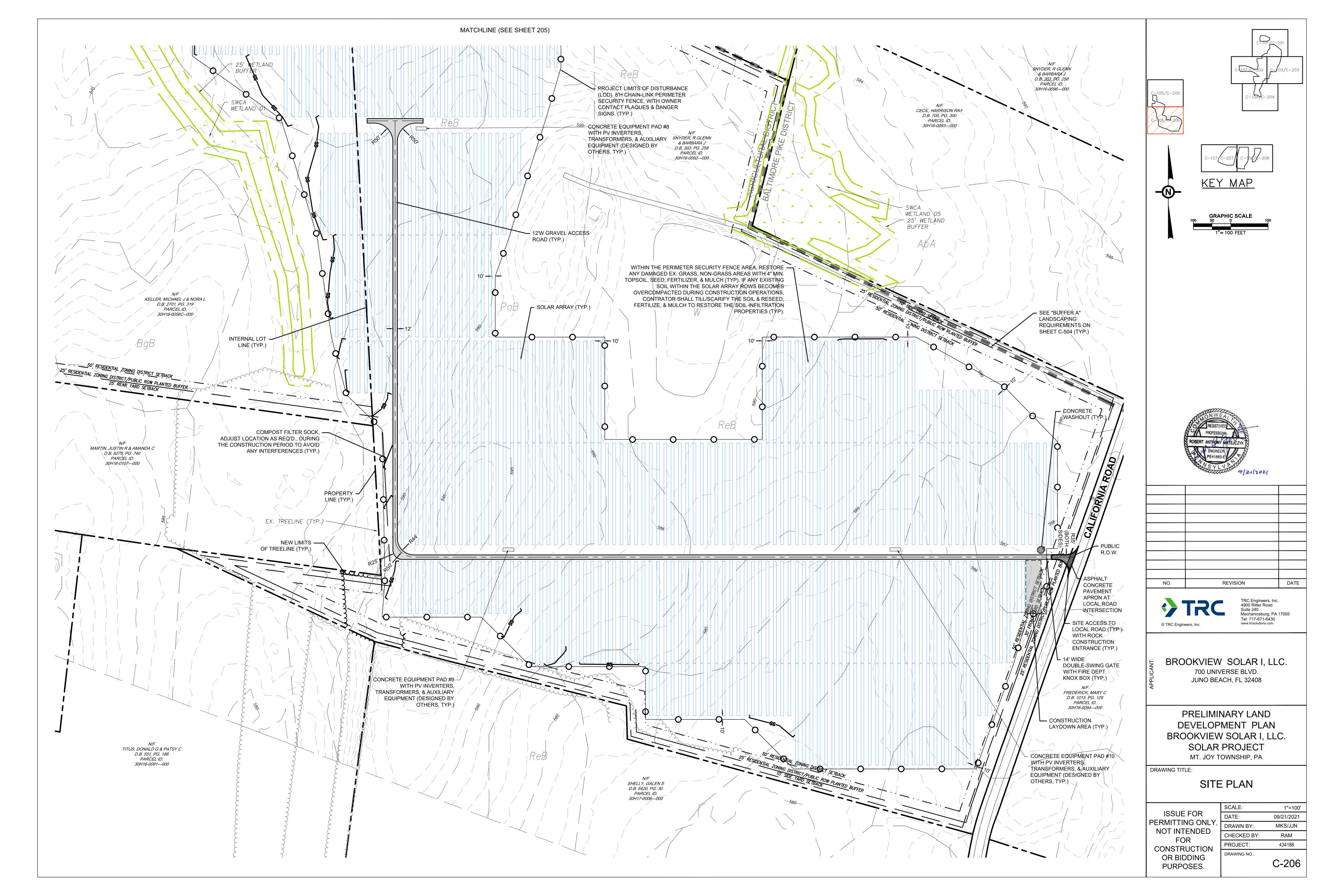


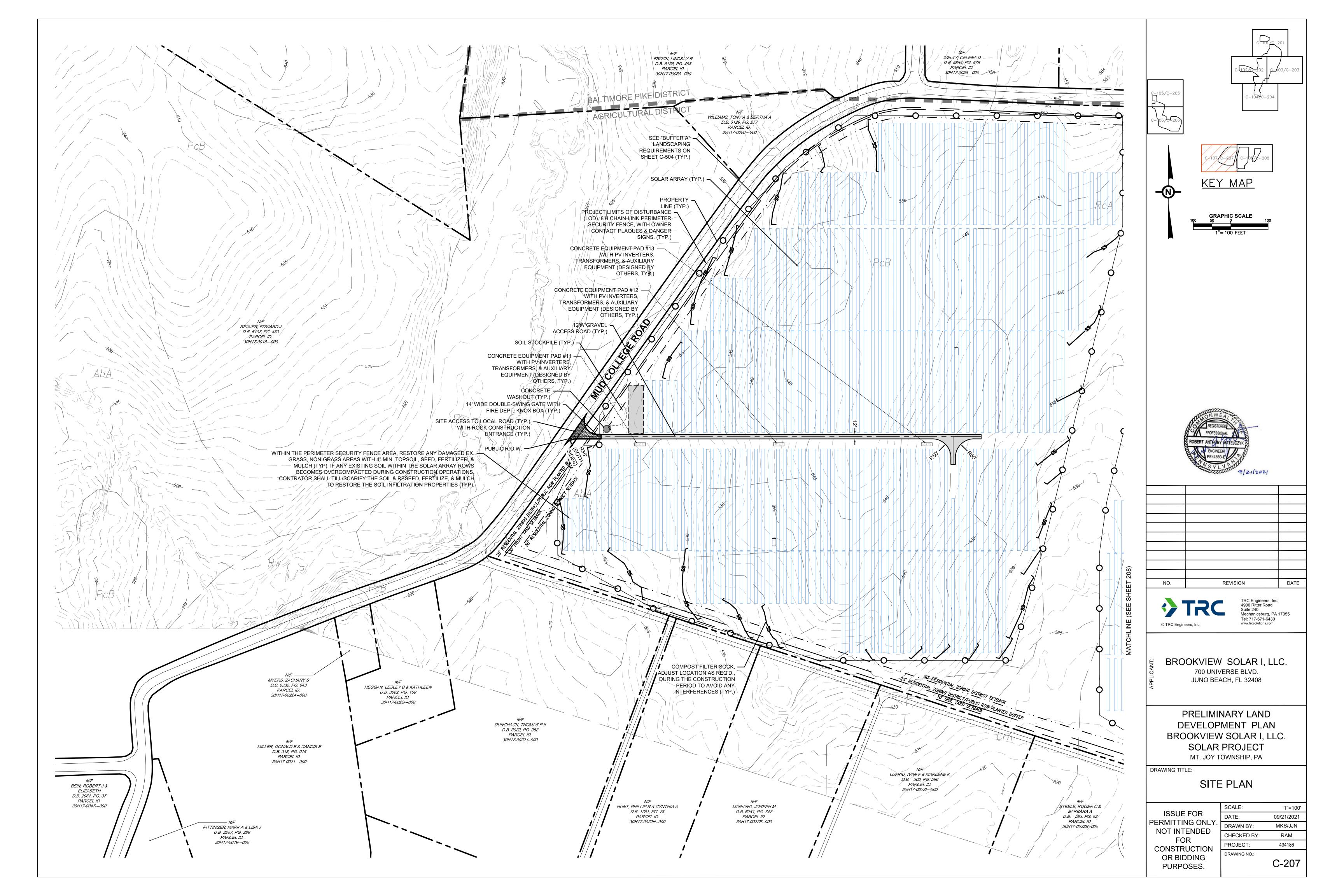


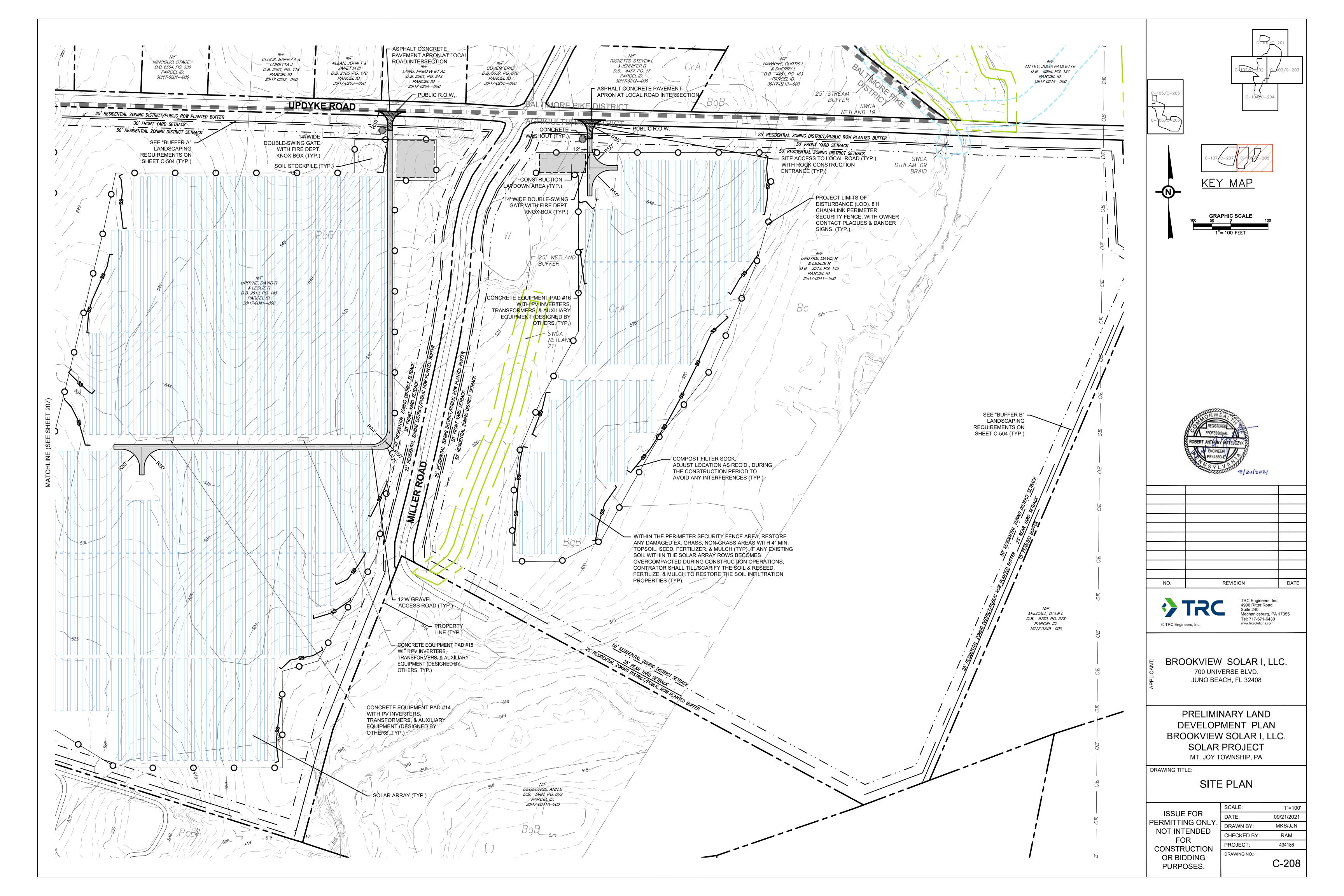


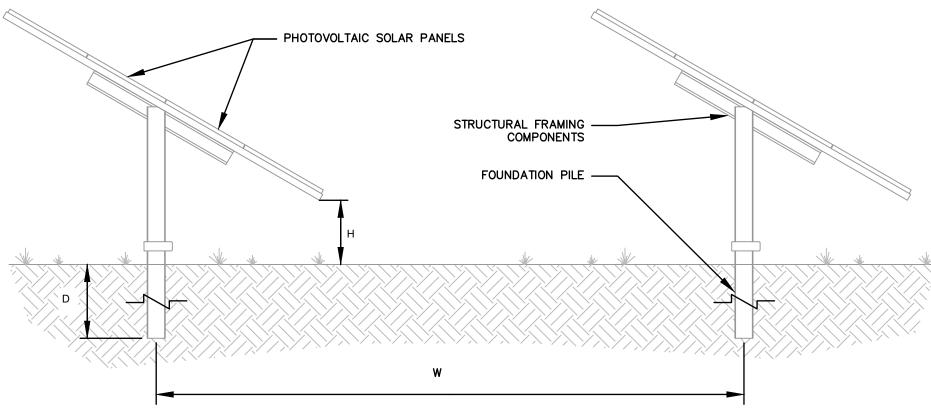






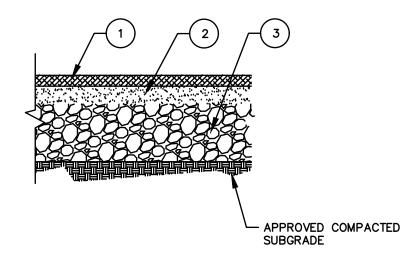






- 1. ALL AREAS SURROUNDING PANELS, INCLUDING AREAS UNDERNEATH PANELS SHALL BE SEEDED AND 90% VEGETATION ESTABLISHED BEFORE PROJECT COMPLETION.
- 2. DISTANCE BETWEEN ROWS OF PANELS (W) WILL VARY ACROSS THE PROJECT DEPENDENT UPON AREAS SLOPE. 3. DEPTH OF FOUNDATION PILES (D) SHALL BE TO MANUFACTURERS STANDARDS.
- 4. HEIGHT OF THE DOWNSIDE EDGE OF THE PANELS (H) WILL VARY ACROSS THE PROJECT DEPENDENT UPON AREAS SLOPE, BUT
- 5. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

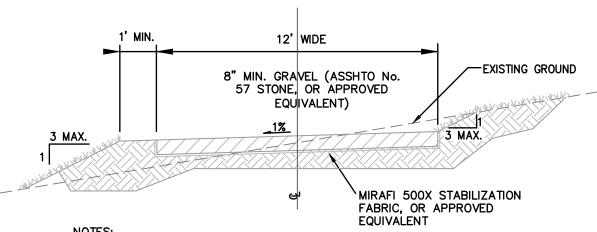
SOLAR PANEL DETAIL



LEGEND:

- 1. 2" PENNDOT SUPERPAVE 9.5MM WEARING COURSE, ITEM 0413-0200
- 2. 3" PENNDOT SUPERPAVE 19MM BINDER COURSE, ITEM 0413-6036
- 3. 12" PENNDOT SUBBASE COURSE, AASHTO NO. 2A COURSE AGGREGATE TYPE C, ITEM 350-0112
- 4. AT THE TIME OF CONSTRUCTION, THE NEW DRIVEWAY IS TO BE KEYED INTO THE ROAD SHOULDER OR PAVEMENT EDGE PER PENNDOT CONSTRUCTION SPECIFICATIONS.

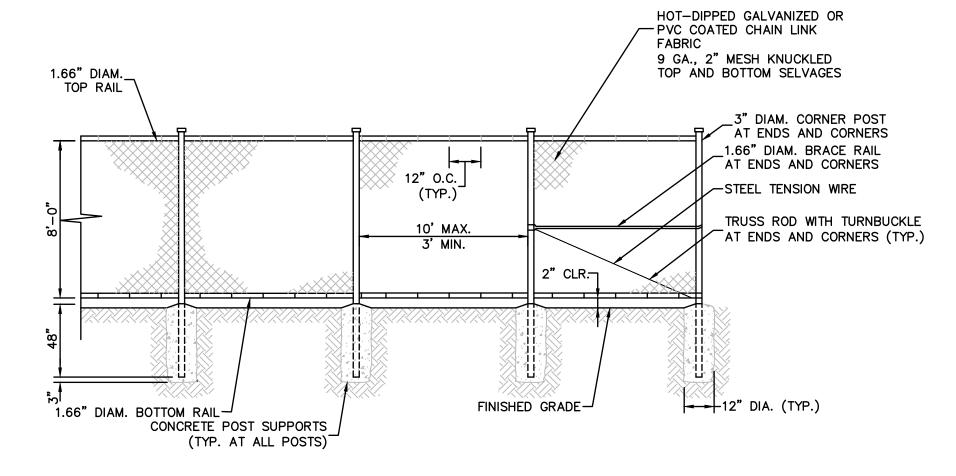
PAVED ASPHALT DRIVEWAY DETAIL



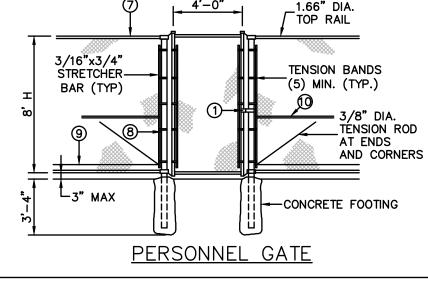
- 1. ROADS WILL BE SLOPED TO DOWNHILL SIDE TO ALLOW SHEET FLOW ACROSS THE
- 2. ALL FILL MATERIAL SHALL CONFORM TO 95% COMPACTION WITH A MAXIMUM LIFT
- THICKNESS OF 8". 3. REVEGETATION AREAS SHALL BE RIPPED & RESEEDED PER APPROVED NPDES
- 4. CUTS DEEPER THAN 3' SHOULD BE AVOIDED WHEREVER POSSIBLE, AND CUT SLOPES NOT IN COMPETENT BEDROCK SHOULD NOT BE STEEPER THAN 2H:1V. FILL SLOPES SHOULD NOT BE STEEPER THAN 2H:1V OR EXCEED 5 FEET IN HEIGHT WHEREVER
- 5. ALL CUT AND FILL SLOPES OUTSIDE OF THE 12'-WIDE PERMANENT GRAVEL SURFACE SHALL BE RE-VEGETATED AND STABILIZED BY SEEDING AND MULCHING,
- BLANKETING, OR OTHER SUITABLE METHOD. 6. ANY EXISTING TOPSOIL LOCATED WITHIN THE PERMANENT 12' GRAVEL WIDTH OF THE ACCESS ROADS SHALL BE STRIPPED, THEN EITHER PLACED IN THE STOCKPILE OR SPREAD ONTO ADJACENT AREAS TO BE PERMANENTLY VEGETATED.

GRAVEL ACCESS ROAD DETAIL

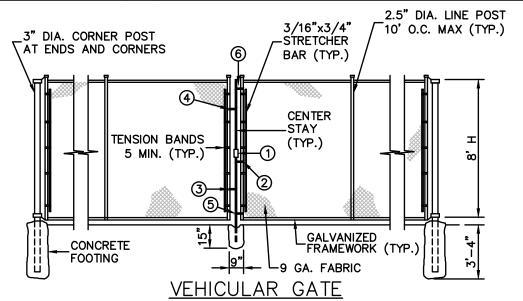
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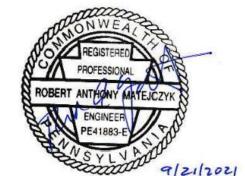
CHAIN-LINK PERIMETER SECURITY FENCE DETAIL



| LABEL LEGEND | | | |
|--------------|-------------------|----|--|
| 1 | LOCK KEEPER | 6 | 6 UPPER GUIDE |
| 2 | LOCK KEEPER GUIDE | 7 | 9 GA. TIE WIRES @ 12" SPACING ON TOP RAIL & TENSION WIRE |
| \odot | LOWER FORKS | 8 | 9 GA. WIRE TIES ON LINE POSTS SHALL BE @ 15" SPACING |
| 4 | UPPER FORKS | 9 | 7 GA. TENSION WIRE 6" ABOVE BOTTOM SELVAGE |
| <u>(5)</u> | LOWER GUIDE | 10 | 1.66" DIA. BRACE RAIL AT ENDS AND CORNERS |



CHAIN-LINK FENCE GATE DETAIL



| 4/2/11/04 | | |
|-----------|----------|------|
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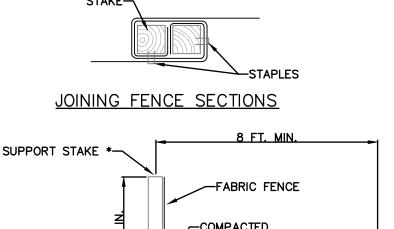
SITE DETAILS

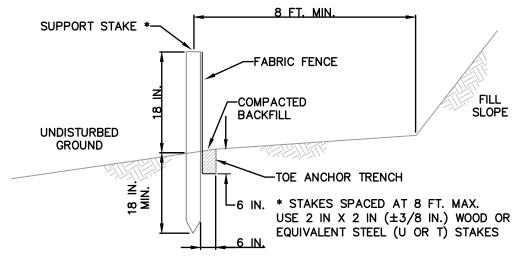
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SECTION VIEW

NOTES:

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.

SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

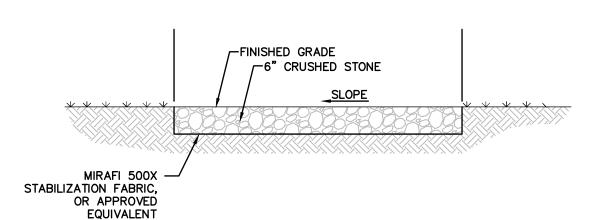
SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6)

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

STANDARD CONSTRUCTION DETAIL #4-7 STANDARD SILT FENCE (18" HIGH) DETAIL

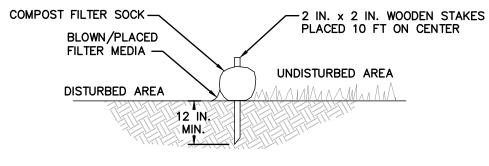
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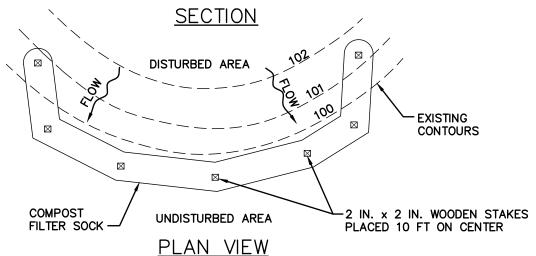


CONSTRUCTION LAYDOWN AREA DETAIL

NOT TO SCAL

| ORGANIC MATTER CONTENT | 25% - 100% (DRY WEIGHT BASIS) |
|----------------------------|------------------------------------|
| ORGANIC PORTION | FIBROUS AND ELONGATED |
| PH | 5.5 - 8.5 |
| MOISTURE CONTENT | 30% - 60% |
| PARTICLE SIZE | 30% - 50% PASS THROUGH 3/8" SCREEN |
| SOLUBLE SALT CONCENTRATION | 5.0 DS MAXIMUM |





OTES:

REPLACED WITHIN 24 HOURS OF INSPECTION.

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

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.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

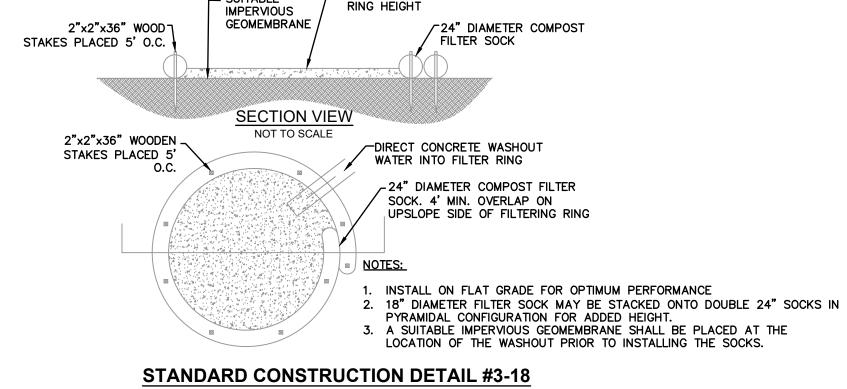
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR

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.

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.

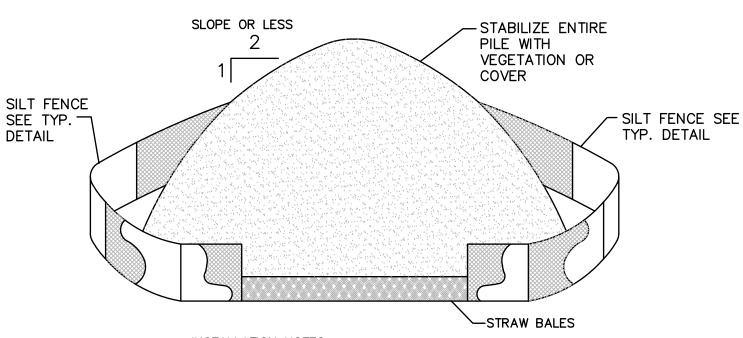
TO BE CONSTRUCTED WITH MATERIALS AND TECHNIQUES IN ACCORDANCE WITH THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL EFFECTIVE DATE MARCH 31, 2012 AS AMENDED.



- SUITABLE

— MAXIMUM DEPTH OF CONCRETE WASHOUT WATER IS 50% OF FILTER

STANDARD CONSTRUCTION DETAIL #3-18 TYPICAL COMPOST SOCK CONCRETE WASHOUT INSTALLATION DETAIL NOT TO SCALE



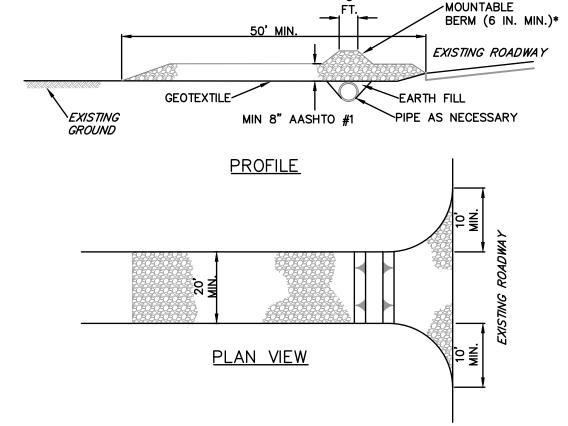
INSTALLATION NOTES:

- 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.

SOIL STOCKPILE DETAIL NOT TO SCALE

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|---|----------------------|--------------------------|---|---|---|
| MATERIAL TYPE | 3 MIL HDPE | 5 MIL HDPE | 5 MIL HDPE | MULTI-FILAMENT POLYPROPYLENE (MFPP) | MULTI-FILAMENT POLYPROPYLENE (HDMEPP) |
| MATERIAL CHARACTERISTICS | PHOTO-DEGRADABLE | PHOTO-DEGRADABLE | BIO-DEGRADABLE | PHOTO-DEGRADABLE | PHOTO-DEGRADABLE |
| SOCK DIAMETERS | 12" 18" | 12" 18" 24" 32" | 12" 18" 24" 32" | 12" 18" 24" 32" | 12" 18" 24" 32" |
| MESH OPENING | 3/8" | 3/8" | 3/8" | 3/8" | 1/8" |
| TENSILE STRENGTH | | 26 PSI | 26 PSI | 44 PSI | 202 PSI |
| ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155) | % AT 1000 HR. | 23% AT 1000 HR. | | 100 % AT 1000 HR. | 100 % AT 1000 HR. |
| | | TWO-PLY S | YSTEMS | | |
| | | | | HDPE BIAXIAL NET | |
| INNER CONTAINMENT NETTING | | | CONTINUOUSLY WOUND | | |
| | | FUSION-WELDED JUNCTURES | | | |
| | | | 3/4" x 3/4" MAX. APERTURE SIZE COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER & NON-WOVEN | | |
| OL | JTER FILTRATION MESH | | | HANICALLY FUSED VIA NE | |
| | | | 3 | 1/16" MAX. APERTURE SIZ | E |
| SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS. | | | | | |

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK DETAIL



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

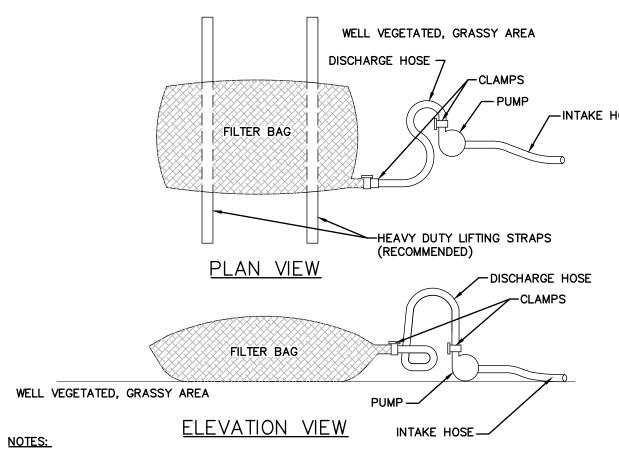
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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.

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.

STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE



LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

| PROPERTY | TEST METHOD | MINIMUM STANDARD |
|--------------------------|-------------|------------------|
| AVG. WIDE WIDTH STRENGTH | ASTM D-4884 | 60 LB/IN |
| GRAB TENSILE | ASTM D-4632 | 205 LB |
| PUNCTURE | ASTM D-4833 | 110 LB |
| MULLEN BURST | ASTM D-3786 | 350 PSI |
| UV RESISTANCE | ASTM D-4355 | 70% |
| AOS % RETAINED | ASTM D-4751 | 80 SIEVE |

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN 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 DISCHARGE CAPACITY. 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.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT

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

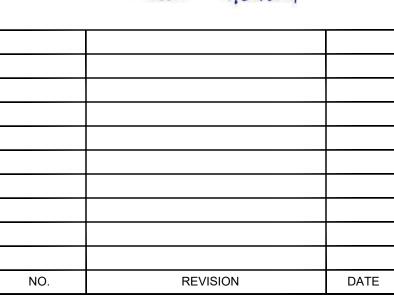
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

TO BE CONSTRUCTED WITH MATERIALS AND TECHNIQUES IN ACCORDANCE WITH THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL EFFECTIVE DATE MARCH 31, 2012 AS AMENDED.

STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG DETAIL

REGISTERED
PROFESSIONAL
ROBERT ANTHONY MATEJCZYK
ENGINEER
PE41883-E
PE41883-E
PA 21/2021





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SCALE: AS NOTED

DATE: 09/21/2021

DRAWN BY: MKS/JJN

CHECKED BY: RAM

PROJECT: 434186

DRAWING NO.:

C-502

STANDARD PENNSYLVANIA ESC PLAN NOTES

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED ESC PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE ESC PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- 5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 5. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE ESC BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS ESC PLAN.
- 7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- 3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- 9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE
- 11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN ESC PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- 13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS (SPECIFY LOT NUMBERS) ONTO (SPECIFY ROAD NAMES).
- 15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE ESC BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 16. A LOG SHOWING DATES THAT ESC BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 17. SEDIMENT TRACKED ONTO ANY ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY, OR AS NEEDED OR AS DIRECTED BY THE CONSERVATION DISTRICT OR MUNICIPALITY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH. STORM SEWER, OR SURFACE WATER.
- 18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- 20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF
- 27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- 28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING. SLIDING. OR OTHER MOVEMENTS.
- 29. ESC BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE ESC BMPS.
- 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- 32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- 33. FAILURE TO CORRECTLY INSTALL ESC BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF ESC BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- 34. ALL STEEP SLOPES GREATER THAN 3:1 SHALL UTILIZE EROSION CONTROL BLANKETS.

ESC MAINTENANCE PROGRAM

- 1. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY.
- 2. A ROCK CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE POINT OF CONSTRUCTION INGRESS AND EGRESS AS NOTED ON THE PLAN. THE STRUCTURE WILL PREVENT TRACKING AND FLOWING OF SEDIMENT ONTO EXISTING STABILIZED AREAS. CLEAN AND REDRESS THE ROCK CONSTRUCTION ENTRANCE WHEN THE VOIDS BECOME CHOKED WITH MUD AND SEDIMENT. THE ENTRANCE SHALL REMAIN FUNCTIONAL FOR THE DURATION OF THE PROJECT.
- 3. WHERE DUST OR WIND EROSION IS A PROBLEM, THE UNSTABLE SURFACE(S) SHALL BE SPRINKLED WITH WATER OR OTHER SUITABLE DUST SUPPRESSER.
- 4. ANY TEMPORARY EROSION CONTROL MEASURE APPLIED TO EXPOSED SOIL SURFACES SHALL REMAIN FUNCTIONAL UNTIL VEGETATIVE COVER IS SUFFICIENTLY ESTABLISHED.
- 5. PERMANENT SOIL PROTECTION WILL BE COMPLETED AS EARLY AS PRACTICAL.
- 6. ANY DEBRIS ACCUMULATED AT SILT BARRIERS SHALL BE REMOVED AND PROPERLY DISPOSED. BARRIERS SHALL BE CHECKED DAILY AND REALIGNED OR RESET AS REQUIRED. REMOVE SEDIMENT WHEN IT REACHES ONE HALF OF FENCE HEIGHT.
- . VEGETATIVE STABILIZATION SHALL BE PERIODICALLY INSPECTED FOR PROPER GROWTH. ANY AREAS NOT RESPONDING SHALL BE PROMPTLY RESEEDED. AREAS WHICH SHOW SIGNS OF EROSION PRIOR TO STABILIZATION SHALL BE GRADED, RESEEDED AND RE-MULCHED AS SOON AS POSSIBLE. SOD SHALL BE UTILIZED AT AREAS WHERE SEEDING DOES NOT APPEAR TO BE PROPERLY STABILIZING AN AREA.
- 8. CLEAN AND REDRESS THE ROCK FILTER BERMS WHEN THE VOIDS BECOME CHOKED WITH MUD AND SEDIMENT. ROCK FILTER BERMS SHALL REMAIN FUNCTIONAL FOR THE DURATION OF
- 9. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- 10. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON
- 11. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 10" LAYERED LIFTS AT 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.

TABLE 11.4

RECOMMENDED SEED MIXTURES

| MIXTURE | SPECIES | SEEDING RATE - PURE LIVE SEED 1 | |
|-------------------------------|---|---------------------------------|-----------------|
| NUMBER | | MOST SITES | ADVERSE SITES |
| 1 ² | SPRING OATS (SPRING), OR ANNUAL RYEGRASS (SPRING OR FALL), OR WINTER WHEAT (FALL), OR | 64 10 90 | 96 15 120 |
| | WINTER RYE (FALL) | 56 | 112 |
| | TALL FESCUE, OR | 60 | 75 |
| 0.3 | FINE FESCUE, OR | 35 | 40 |
| 2 ³ | KENTUCKY BLUEGRASS, PLUS | 25 3 | 30 |
| | REDTOP 1, OR PERENNIAL RYEGRASS | ა 15 | 20 |
| | BIRDSFOOT TREFOIL, PLUS | 6 | 10 |
| 3 | TALL FESCUE | 30 | 35 |
| | BIRDSFOOT TREFOIL, PLUS | 6 | 10 |
| 4 | REED CANARYGRASS | 10 | 15 |
| | CROWNVETCH, PLUS | 10 | 15 |
| 5 ° | TALL FESCUE, OR | 20 | 25 |
| | PERENNIAL RYEGRASS | 20 | 25 |
| 6 ⁵ , ⁸ | CROWNVETCH, PLUS | 10 | 15 |
| | ANNUAL RYEGRASS | 20 | 25 |
| | BIRDSFOOT TREFOIL, PLUS | 6 | 10 |
| 7 8 | CROWNVETCH, PLUS | 10 | 15 |
| | TALL FESCUE | 20 20 | 30 |
| 8 | FLATPEA, PLUS TALL FESCUE, OR | 20 | 30 30 |
| O | PERENNIAL RYEGRASS | 20 | 25 |
| | SERECIA LESPEDEZA, PLUS | 10 | 20 |
| 9 6 | TALL FESCUE, PLUS | 20 | 25 |
| | REDTOP ⁴ | 3 | 3 |
| 10 | TALL FESCUE, PLUS | 40 | 60 |
| | FINE FESCUE | 10 | 15 |
| 11 | DEERTONGUE, PLUS | 15 | 20 |
| | BIRDSFOOT TREFOIL | 6 | 10 |
| 4.0 | SWITCHGRASS, OR | 15 | 20 |
| 12 7 | BIG BLUESTEM, PLUS | 15 | 20 |
| | BIRDSFOOT TREFOIL | 6 | 10 |
| 13 | ORCHARDGRASS, OR SMOOTH BROMEGRASS, PLUS | 20 25 | 30 35 |
| 13 | BIRDSFOOT TREFOIL | 25 6 | 10 |

- 1. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR SWITCHGRASS, DIVIDE 12 POUNDS PLS SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEED LOT IS 35%, DIVIDE 12 PLS BY 0.35 TO OBTAIN 34.3 POUNDS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS.
- 2. IF HIGH-QUAILTY SEED IS USED, FOR MOST SITES SEED SPRING OATS AT A RATE OF 2 BUSHELS PER ACRE, WINTER WHEAT AT 1.5
 BUSHELS PER ACRE, AND WINTER RYE AT 1 BUSHEL PER ACRE. IF GERMINATION IS BELOW 90%, INCREASE THESE SUGGESTED
 SEEDING RATES BY 0.5 BUSHEL PER ACRE.
- 3. THIS MIXTURE IS SUITABLE FOR FREQUENT MOWING. DO NOT CUT SHORTER THAN 4 INCHES.
- 4. KEEP SEEDING RATE TO THAT RECOMMENDED IN TABLE. THESE SPECIES HAVE MANY SEEDS PER POUND AND ARE VERY COMPETITIVE. TO SEED SMALL QUANTITIES OF SMALL SEEDS SUCH AS WEEPING LOVEGRASS AND REDTOP, DILUTE WITH DRY SAWDUST, SAND, RICE HULLS, BUCKWHEAT HULLS, ETC.
- USE FOR HIGHWAY SLOPES AND SIMILAR SITES WHERE THE DESIRED SPECIES AFTER ESTABLISHMENT IS CROWNVETCH.
 USE ONLY IN EXTREME SOUTHEASTERN OR EXTREME SOUTHWESTERN PENNSYLVANIA. SERECIA LESPEDEZA IS NOT WELL ADAPTED TO MOST OF PA.
- 7. DO NOT MOW SHORTER THAN 9 TO 10 INCHES.
- 8. SEED MIXTURES CONTAINING CROWN VETCH SHOULD NOT BE USED IN AREAS ADJACENT TO WETLANDS OR STREAM CHANNELS DUE TO THE INVASIVE NATURE OF THIS SPECIES.

TABLE 11.5

RECOMMENDED SEED MIXTURES FOR STABILIZING DISTURBED AREAS

| SITE CONDITION | NURSE CROP | SEED MIXTURE (SELECT ONE MIXTURE) |
|---|---|---|
| SLOPES AND BANKS (NOT MOWED) WELL-DRAINED VARIABLE DRAINAGE | 1 PLUS 1 PLUS | 3, 5, 8, OR 12 ¹ 3 OR 7 |
| SLOPES AND BANKS (MOWED) WELL- DRAINED AND BANKS (GRAZED/HAY) WELL- | 1PLUS | 2 OR 10 |
| DRAINED | 1PLUS | 2, 3, OR 13 |
| GULLIES AND ERODED AREAS | 1 PLUS | 3, 5, 7, OR 12 ¹ |
| EROSION CONTROL FACILITIES (BMPs) SOD WATERWAYS, SPILLWAYS, FREQUENT WATER FLOW AREAS DRAINAGE DITCHES | 1 PLUS | 2, 3, OR 4 |
| SHALLOW, LESS THAN 3 FEET DEEP DEEP, NOT MOWED POND BANKS, DIKES, LEVEES, DAMS, DIVERSION CHANNELS, AND OCCASIONAL WATER FLOW AREAS | 1 PLUS 1 PLUS | 2, 3, OR 4 5 OR 7 |
| MOWED AREAS NON-MOWED AREAS FOR HAY OR SILAGE ON DIVERSION CHANNELS AND OCCASIONAL WATER FLOW AREAS | 1 PLUS 1 PLUS | 2 OR 3 5 OR 7 |
| HIGHWAYS ² NON-MOWED AREAS PURE CROWNVETCH ³ WELL-DRAINED VARIABLE DRAINED POORLY DRAINED AREAS MOWED SEVERAL TIMES PER YEAR | 1 PLUS 1 PLUS 1 PLUS 1 PLUS 1 PLUS 1 PLUS | 3 OR 13 5 OR 6 5, 7, 8, 9, OR 10 3 OR 7 3 OR 4 2, 3, OR 10 |
| UTILITY RIGHT-OF-WAY WELL-DRAINED VARIABLE DRAINED WELL-DRAINED AREAS FOR GRAZING/HAY | 1 PLUS 1 PLUS 1 PLUS | 5, 8, OR 12 ¹ 3 OR 7 2, 3, OR 13 |
| EFFLUENT DISPOSAL AREAS | 1 PLUS | 3 OR 4 |
| SANITARY LANDFILLS | 1 PLUS | 3, 5, 7, 11 ¹ , OR 12 ¹ |
| SURFACE MINES SPOILS, MINE WASTES, FLY ASH, SLAG, SETTLING BASIN RESIDUES AND OTHER SEVERELY DISTURBED AREAS (LIME TO SOIL TEST) SEVERELY DISTURBED AREAS FOR GRAZING/HAY | 1 PLUS | 3, 4, 5, 7, 8, 9, 11 ¹ or 12 ¹ |

- FOR SEED MIXTURES 11 AND 12, ONLY USE SPRING OATS OR WEEPING LOVEGRASS (INCLUDED IN MIX) AS NURSE CROP.
 CONTACT THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION DISTRICT ROADSIDE SPECIALIST FOR
- SPECIFIC SUGGESTIONS ON TREATMENT TECHNIQUES AND MANAGEMENT PRACTICES.

 3. SEED MIXTURES CONTAINING CROWN-VETCH SHOULD NOT BE USED IN AREAS ADJACENT TO WETLANDS OR STREAM
- CHANNELS DUE TO THE INVASIVE NATURE OF THIS SPECIES.

 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.

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.

SHREDDED 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 HYDROMULC SHOULD BE 2,000 LB/ACRE AT A MINIMUM.

TABLE 11.6

I CH APPLICATION RATES

| MULCH APPLICATION RATES | | | | | |
|-------------------------|-------------------------|-------------------|-------------------|---|--|
| MUII CH TYDE | APPLICATION RATE (MIN.) | | | NOTES | |
| MULCH TYPE | PER ACRE | PER 1,000 SQ. FT. | PER 1,000 SQ. YD. | NOTES | |
| 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 CHIPS | 4 - 6 TONS | 185 - 275 LB. | 1,650 - 2500 LB. | MAY PREVENT GERMINATION OF GRASSES AND LEGUMES | |
| HYDROMULCH | 1 TON | 47 LB. | 415 LB. | SEE LIMITATIONS ABOVE | |

SOIL AMENDMENTS:

CONSTRUCTION SEQUENCE:

1. ALL CONSTRUCTION SHOULD BE COMPLETED AND STABILIZED BEFORE BEGINNING SOIL AMENDMENT/RESTORATION.

MAINTENANCE ISSUES:

THE SOILS RESTORATION PROCESS MAY NEED TO BE REPEATED OVER TIME, DUE TO COMPACTION BY USE AND/OR SETTLING.

SPECIFICATIONS:

1. SCOPE

- A. THIS SPECIFICATIONS COVERS THE USE OF COMPOST FOR SOIL AMENDMENT AND THE MECHANICAL RESTORATION OF COMPACTED, ERODED AND NON-VEGETATED SOILS. SOIL AMENDMENT AND RESTORATION IS NECESSARY WHERE EXISTING SOIL HAS BEEN DEEMED UNHEALTHY IN ORDER TO RESTORE SOIL STRUCTURE AND FUNCTION, INCREASE INFILTRATION POTENTIAL AND SUPPORT HEALTHY VEGETATIVE COMMUNITIES.
- B. SOIL AMENDMENT PREVENTS AND CONTROLS EROSOIN BY ENHANCING THE SOIL SURFACE TO PREVENT THE INITIAL DETACHMENT AND TRANSPORT OF SOIL PARTICLES.

2. COMPOST MATERIALS

- A. COMPOST PRODUCTS SPECIFIED FOR USE IN THIS APPLICATION ARE DESCRIBED IN TABLE 1. THE PRODUCT'S PARAMETERS
- WILL VARY BASED ON WHETHER VEGETATION WILL BE ESTABLISHED ON THE TREATED SLOPE.

 B. ONLY COMPOST PRODUCTS THAT MEET ALL APPLICABLE STATE AND FEDERAL REGULATIONS PERTAINING TO ITS PRODUCTION AND DISTRIBUTION MAY BE USED IN THIS APPLICATION. APPROVED COMPOST PRODUCTS MUST MEET RELATED STATE AND FEDERAL CHEMICAL CONTAMINANT (E.G., HEAVY METALS, PESTICIDES, ETC.) AND PATHOGEN LIMIT STANDARDS PERTAINING
- TO THE FEEDSTOCKS (SOURCE MATERIALS) IN WHICH IT IS DERIVED.

 C. VERY COARSE COMPOST SHOULD BE AVOIDED FOR SOIL AMENDMENT AS IT WILL MAKE PLANTING AND CROP ESTABLISHMENT MORE DIFFICULT.
- D. NOTE 1 SPECIFYING THE USE OF COMPOST PRODUCTS THAT ARE CERTIFIED BY THE U.S. COMPOSTING COUNCIL'S SEAL OF TESTING (STA) PROGRAM (WWW.COMPOSTINGCOUNCIL.ORG) WILL ALLOW FOR THE ACQUISITION OF PRODUCTS THAT ARE ANALYED ON A ROUTINE BASIS, USING THE SPECIFIED TEST METHODS. STA PARTICIPANTS ARE ALSO REQUIRED TO PROVIDE A STANDARD PRODUCT LABEL TO ALL CUSTOMERS, ALLOWING EASY COMPARISON TO OTHER PRODUCTS.

3. SUB-SOILING TO RELIEVE COMPACTION

- A. BEFORE THE TIME THE COMPOST IS PLACES AND PREFERABLY WHEN EXCAVATION IS COMPLETED, THE SUBSOIL SHALL BE IN A LOOSE, FRIABLE CONDITION TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE AND THERE SHALL BE NO EROSION
- RILLS OR WASHOUTS IN THE SUBSOIL SURFACE EXCEEDING 3 INCHES IN DEPTH.

 B. TO ACHIEVE THIS CONDITION, SUB-SOILING, RIPPING OR SCARIFICATION OF THE SUBSOIL WILL BE REQUIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE, WHEREVER THE SUBSOIL HAS BEEN COMPACTED BY EQUIPMENT OPERATION OR HAS BECOME DRIED OUT AND CRUSTED, AND WHERE NECESSARY TO OBLITERATE EROSION RILLS. SUB-SOILING HSLAL BE REQUIRED TO REDUCE SOIL COMPACTION IN ALL AREAS WHERE PLANT ESTABLISHMENT IS PLANNED. SUB-SOILING SHALL BE PERFORMED BY THE PRIME OR EXCAVATING CONTRACTOR AND SHALL OCCUR BEFORE COMPOST PLACEMENT.
- C. SUBSOILED AREAS SHALL BE LOOSENED TO LESS THAN 1400 KPA (200 PSI) TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE. WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL VERIFY THAT THE SUB-SOILING WORK CONFORMS TO THE SPECIFIED DEPTH.
- D. SUB-SOILING SHALL FORM A TWO-DIRECTIONAL GRID. CHANNELS SHALL BE CREATED BY A COMMERCIALLY AVAILABLE, MULTI-SHANKED, PARALLELOGRAM IMPLEMENT (SOLID-SHANK RIPPER). THE EQUIPMENT SHALL BE CAPABLE OF EXERTING A PENETRATION FORCE NECESSARY FOR THE SITE. NO DISC CULTIVATORS CHISEL PLOWS, OR SPRING-LOADED EQUIPMENT WILL BE ALLOWED. THE GRID CHANNELS SHALL BE SPACED A MINIMUM OF 12 INCHES TO A MAXIMUM OF 36 INCHES APART, DEPENDING ON EQUIPMENT, SITE CONDITIONS AND THE SOIL MANAGEMENT PLAN. THE CHANNEL DEPTH SHALL BE A MINIMUM OF 20 INCHES OR AS SPECIFIED IN THE SOIL MANAGEMENT PLAN. IF SOILS ARE SATURATED, THE CONTRACTOR SHALL DELAY OPERATIONS UNTIL THE SOIL WILL NOT HOLD A BALL WHEN SQUEEZED. ONLY ONE PASS SHALL BE PERFORMED ON ERODIBLE SLOPES GREATER THAN 1 VERTICAL TO 3 HORIZONTAL. WHEN ONLY ONE PASS IS USED, WORK SHOULD BE AT RIGHT ANGLES
- TO THE DIRECTION OF SURFACE DRAINAGE, WHENEVER PRACTICAL.

 E. EXCEPTIONS TO SUB-SOILING INCLUDE AREAS WITHIN THE DRIP LINE OF ANY EXISTING TREES, OVER UTILITY INSTALLATIONS WITHIN 30 INCHES OF THE SURFACE, WHERE TRENCHING/DRAINAGE LINES ARE INSTALLED, WHERE COMPACTION IS BY DESIGN (ABUTMENTS, FOOTINGS, OR IN SLOPES), AND ON INACCESSIBLE SLOPES, AS APPROVED BY THE OWNER'S REPRESENTATIVE. IN CASES WHERE EXCEPTIONS OCCUR, THE CONTRACTOR SHALL OBSERVE A MINIMUM SETBACK OF 20 FEET OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ARCHEOLOGICAL CLEARANCES MAY BE REQUIRED IN SOME INSTANCES.

4. COMPOST SOIL AMENDMENT QUALITY

- A. THE FINAL, RESULTING COMPOST SOIL AMENDMENT MUST MEET ALL OF THE MANDATORY CIRTERIA IN TABLE 4.
- 5. COMPOST SOIL AMENDMENT INSTALLATION
- A. SPREAD 2-3 INCHES OF APPROVED COMPOST ON EXISTING SOIL. TILL ADDED SOIL INTO EXISTING SOIL WITH A ROTARY TILLER THAT IS SET TO A DEPTH OF 6 INCHES. ADD AN ADDITIONAL 4 INCHES OF APPROVED COMPOST TO BRING THE AREA UP TO
- B. AFTER PERMANENT PLANTING/SEEDING, 2-3 INCHES OF COMPOST BLANKET WILL BE APPLIED TO ALL AREAS NOT PROTECTED BY GRASS OR OTHER PLANTS.

DESIGN CONSIDERATIONS:

- TREATING COMPACTION BY SOIL RESTORATION
- A. SOIL AMENDMENT MEDIA USUALLY CONSISTS OF COMPOST, BUT CAN INCLUDE MULCH, MANURES, SAND AND MANUFACTURED MICROBIAL SOLUTIONS.
- B. COMPOST SHOULD BE ADDED AT A RATE OF 2:1 (SOIL:COMPOST). IF A PROPRIETARY PRODUCT IS USED, THE MANUFACTURER'S INSTRUCTIONS SHOULD BE FOLLOWED IN TERMS OF MIXING AND APPLICATION RATE.
- C. SOIL RESTORATION SHOULD NOT BE USED ON SLOPES GREATER THAN 30%. IN THESE AREAS, DEEP-ROOTED VEGETATION CAN BE USED TO INCREASE STABILITY.
- D. SOIL RESTORATION SHOULD NOT TAKE PLACE WITHIN THE DRIP LINE OF A TREE TO AVOID DAMAGING THE ROOT SYSTEM.

 E. ON-SITE SOILS WITH AN ORGANIC CONTENT OF AT LEAST 5% CAN BE PROPERLY STOCKPILED (TO MAINTAIN ORGANIC
- CONTENT) AND REUSED.

 F. PROCEDURE: ROTOTILL, OR RIP THE SUBGRADE, REMOVE ROCKS, DISTRIBUTE THE COMPOST, SPREAD THE NUTRIENTS, ROTOTILL AGAIN
- G. ADD 6 INCHES COMPOST/AMENDMENT AND TILL UPT O 8 INCHES FOR MINOR COMPACTION.
 H. ADD 10 INCHES COMPOST/AMENDMENT AND TILL UP TO 20 INCHES FOR MAJOR COMPACTION.

2. TREATING COMPACTION BY RIPPING/SUB-SOILING/TILLING/SCARIFICATION

- A. SUB-SOILING IS ONLY EFFECTIVE WHEN PERFORMED ON DRY SOILS.

 B. RIPPING, SUB-SOILING OR SCARIFICATION OF THE SUBSOIL SHOULD BE PERFORMED WHERE SUBSOIL HAS BECOME
- COMPACTED BY EQUIPMENT OPERATION, DRIED OUT AND CRUSTED, OR WHERE NECESSARY TO OBLITERATE EROSION RILLS.

 C. RIPPING (SUB-SOILING) SHOULD BE PERFORMED USING A SOLID-SHANK RIPPER AND TO A DEPTH OF 20 INCHES, (8 INCHES FOR
- MINOR COMPACTION).
- D. SHOULD BE PERFORMED BEFORE COMPOST IS PLACED AND AFTER ANY EXCAVATION IS COMPLETED.
 E. SUB-SOILING SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES, OVER UNDERGROUND UTILITY INSTALLATIONS WITHIN 30 INCHES OF THE SURFACE, WHERE TRENCHING/DRAINAGE LINES ARE INSTALLED, WHERE COMPACTION IS BY DESIGN.

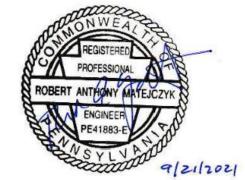
SUB-SOILING SHOULD NOT BE PERFORMED WITH COMMON TILLAGE TOOLS SUCH AS A DISK OR CHISEL PLOW BECAUSE THEY ARE TOO SHALLOW AND CAN COMPACT THE SOIL JUST BENEATH THE TILLAGE DEPTH.

3. OTHER METHODOLOGIES:

- A. IRRIGATION MANAGEMENT LOW RATES OF WATER SHOULD BE APPLIED, AS OVER-IRRIGATION WASTES WATER AND MAY LEAD TO ENVIRONMENTAL POLLUTION FROM LAWN CHEMICALS, NUTRIENTS AND SEDIMENT.
- B. LIMITED MOWING HIGHER GRASS CORRESPONDS TO GREATER EVAPOTRANSPIRATION.
 C. COMPOST CAN DBE AMENDED WITH BULKING AGENTS, SUCH AS AGED CRUMB RUBBER FROM USED TIRES OR WEED CHIPS.
- THIS CAN BE A COST-EFFECTIVE ALTERNATIVE THAT REUSES WASTE MATERIALS.

 D. IN AREAS WHERE COMPACTION IS LESS SEVERE (NOT AS A RESULT OF HEAVY CONSTRUCTION EQUIPMENT), PLANTING WITH
 - 1 SOIL RESTORATION METHODOLOGY

DEEP-ROOTED PERENNIALS CAN TREAT COMPACTION, HOWEVER RESTORATION TAKES SEVERAL YEARS.



| NO. | REVISION | DATE |
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BROOKVIEW SOLAR I, LLC. 700 UNIVERSE BLVD. JUNO BEACH, FL 32408

4900 Ritter Road

Tel: 717-671-6430

Mechanicsburg, PA 17055

PRELIMINARY LAND
DEVELOPMENT PLAN
BROOKVIEW SOLAR I, LLC.
SOLAR PROJECT
MT. JOY TOWNSHIP, PA

DRAWING TITLE:

EROSION & SEDIMENT CONTROL NOTES

SCALE:

ISSUE FOR
PERMITTING ONLY
NOT INTENDED
FOR
CONSTRUCTION

OR BIDDING

PURPOSES.

DATE: 09/21/2021

DRAWN BY: MKS/JJN

CHECKED BY: RAM

PROJECT: 434186

DRAWING NO.:

C-503

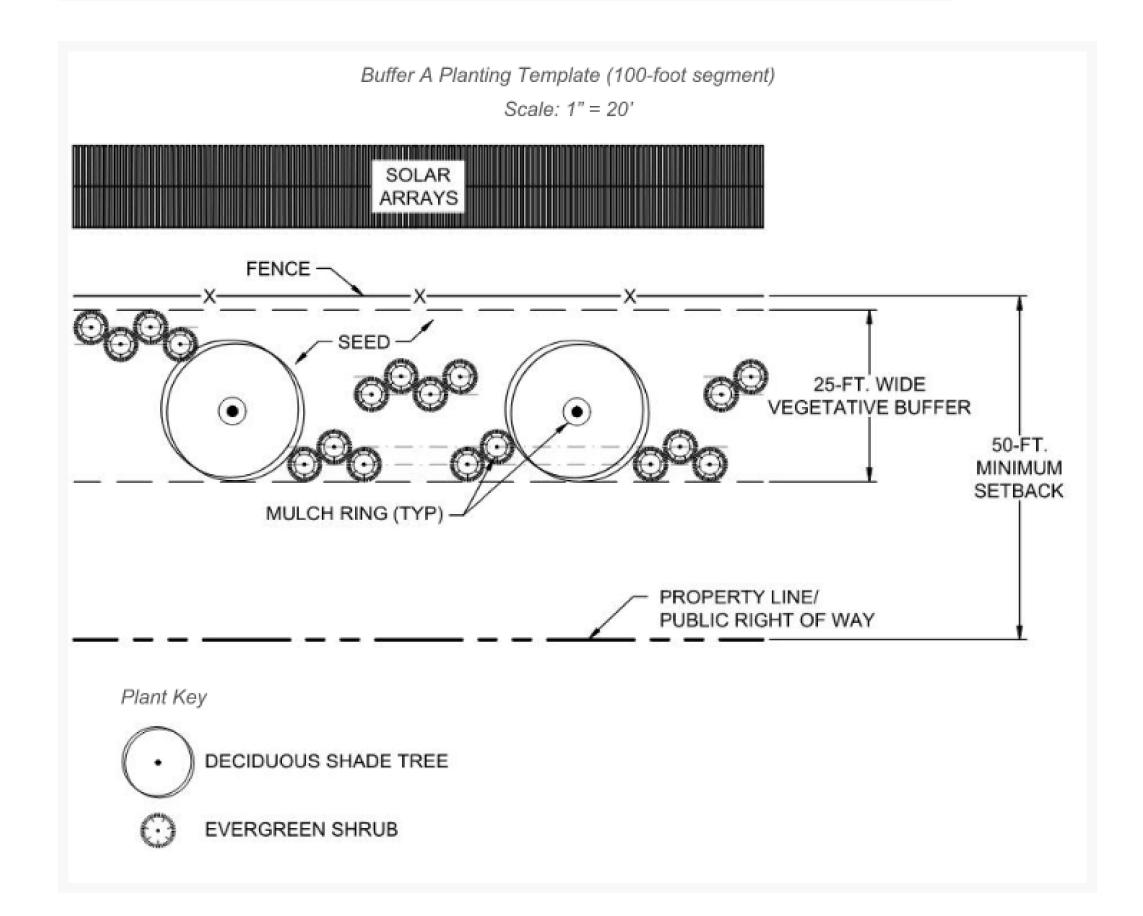
"BUFFER A" AREA NOTES:

- THE PRIMARY PROPOSED BUFFER TREATMENT IS A 25-FOOT WIDE BUFFER THAT MEETS LANDSCAPING REQUIREMENTS FOR SOLAR ENERGY SYSTEMS PER SECTION 110-402.8 OF THE ZONING ORDINANCE. ANY GENERAL LANDSCAPE REQUIREMENTS THAT ARE NOT ADDRESSED UNDER THE SOLAR ENERGY SYSTEM REQUIREMENTS ALSO APPLY AND ARE ADDRESSED HERE.
- THIS BUFFER IS LOCATED ALONG THE FOLLOWING:
- PUBLIC ROAD FRONTAGE/STREET RIGHT-OF-WAY
- PROPERTY LOT LINES ADJACENT TO:
- •• LOTS IMPROVED WITH DWELLINGS UNIMPROVED LOTS IN THE BALTIMORE PIKE CORRIDOR DISTRICT (BPC), WHICH IS ZONED FOR RESIDENTIAL USE

Buffer A Landscaping Requirements

| Type of Requirement | Use Requirement | Zoning Ordinance |
|--------------------------|---|--------------------|
| Minimum Setback distance | 50 feet | §110-402.II(4) |
| Buffer width | 25 feet | §110-402.II(8) |
| Buffer appearance | "Natural-looking visual element." | §110-402.II(10)(a) |
| | "Mostly solid year-round visual screen at least six feet in height." ¹ Deciduous trees spaced to create a naturalistic look. | §110-402.II(10)(c) |
| Existing vegetation | Trees 6 inches diameter at breast height or greater to be preserved | §110-402(10)(c) |
| Plant Material | | |
| Plant Type | Quantity per 50 linear feet | §110-402.II(10)(c) |
| Deciduous shade trees | 1 | |
| Evergreen shrubs | No minimum stated ² | |
| | Minimum size at planting | §110-402.II(10)(c) |
| Deciduous shade trees | 2-inch caliper | |
| Evergreen shrubs | 36 inches in height | |
| _ | Minimum size at maturity | |
| Deciduous shade trees | Exceeding 20 feet in height3 | §110-708.H(3) |
| Evergreen shrubs | | §110-402(10)(c) |
| Species | Primarily species native to Pennsylvania. No "weak- stem" plants. | §110-402.II(10) |

- In response to concerns from the Pennsylvania Department of Transportation, the evergreen shrubs in the Buffer A planting template have been staggered as necessary to avoid the possible creation of snow drifts along roadways.
- 2. A sufficient number must be planted in order to create a "mostly solid year-round visual screen."
- 3. No minimum size at maturity is given in Article IV of the Zoning Ordinance, but this is the height requirement given in the general landscaping requirements in Article VII.
- 4. No minimum size at maturity is given, but there is a requirement for a "visual screen at least six feet in height" within three years of planting.



"BUFFER B" AREA NOTES:

THE SECONDARY PROPOSED BUFFER TREATMENT IS A 15-FOOT WIDE BUFFER THAT MEETS GENERAL LANDSCAPING REQUIREMENTS. THIS BUFFER IS LOCATED WHERE NO SOLAR ENERGY SYSTEM REQUIREMENTS APPLY. THIS INCLUDES ALONG PROPERTY LOT LINES ADJACENT TO UNIMPROVED LOTS IN THE AGRICULTURAL CONSERVATION DISTRICT (AC) WHERE THE 15-FOOT BUFFER APPLIES PER SECTION 110-708.C OF THE ZONING ORDINANCE.

Buffer B Landscaping Requirements

| Type of Requirement | Use Requirement | Zoning Ordinance |
|--------------------------|--------------------------------|---------------------------|
| Minimum Setback distance | Varies, depending on location | §110-302.A |
| | (front, rear, or side) and | |
| | zoning district | |
| Buffer width | 15 feet | §110-708.C(2) |
| Buffer appearance | "Varied by species and | §110-707.B |
| | distribution to achieve a more | |
| | natural appearance." | |
| | | |
| | "Plantingsdistributedin a | §110-708.H(1) |
| | naturalistic pattern." | |
| Existing vegetation | Trees 6 inches diameter at | §110-708(H)(7) |
| | breast height or greater to be | |
| | preserved | |
| Plant Material | | |
| Plant Type | Quantity Per 100 linear feet | §110-708.H(2) |
| Deciduous trees | | |
| Evergreen trees | | |
| Shrubs | 6 | |
| Plant Type | Minimum size at planting | §110-707.D(1) |
| Deciduous trees | | |
| Evergreen trees | | |
| Shrubs | 0 | |
| Plant Type | Minimum size at maturity | §110-708.H(2) |
| | Exceeding 20 feet in height | |
| Evergreen trees | 0 | |
| Shrubs | | |
| Species | Primarily species native to | §110-707.A, §110-708.H(6) |
| | Pennsylvania. No "weak- | |
| | stem" plants. | |

Buffer B Planting Template (100-foot segment)

Scale: 1" = 20'

15-FT. WIDE

PROPERTY LINE/

PUBLIC RIGHT OF WAY

VEGETATIVE BUFFER 30-FT.

MINIMUM

SETBACK

(0)

Plant Key

24 inches for evergreen shrubs and 36 inches for flowering/deciduous shrubs

SOLAR

ARRAYS

MULCH RING (TYP)

DECIDUOUS SHADE TREE

EVERGREEN TREE

DECIDUOUS FLOWERING TREE

PLANTING NOTES:

THE CONTAINER OR ROOT BALL.

- 1. DETERMINE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES AND VERIFY IN THE FIELD. REPORT AND CONFLICTS PRIOR TO START OF WORK. LOCATE ALL OVERHEAD UTILITY EASEMENTS AND DO NOT PLANT IN THESE EASEMENTS. 2. PROVIDE IDENTIFICATION TAG FROM SUPPLING NURSERY SHOWING COMMON AND BOTANICAL NAMES FOR AT LEAST ONE PLANT OF EACH SPECIES DELIVERED TO THE SITE. PROTEST ALL PLANTS AGAIST HEAT, SUN, WIND AND FROST DURING
- TRANSPORTATION TO THE SITE AND WHILE BEING HELD AT THE SITE. DO NOT STORE PLANTS IN TOTAL DARKNESS MORE THAN ONE DAY.
- 3. ALL PLANTS SHALL BE BALL AND BURLAP OR CONTAINERIZED
- 4. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIALS BEFORE PLANTING. MATERIAL MAY BE REJECTED AT ANY TIME DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING.
- 5. ALL PLANT MATERIALS SHALL BE NURSERY GROWN, TRUE TO NAME AND GROWN IN THE SAME CLIMATIC ZONE AND IN A SIMILAR SOIL CONDITIONS AS THE LOCATION OF THE PROJECT AREA.
- 5. ALL PLANT MATERIALS SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, FREE FROM DISFIGURED KNOTS, FREE FROM SUN SCAL, FROST CRACKS, AND/OR ABRASIONS OF THE BARK, AND FREE FROM PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION. ALL TREES SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACE. TREES SHALL NOT BE LOOSE IN
- 7. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CURRENT CONDITIONS ON SITE. ANY DAMAGE THAT OCCURS TO THE SITE DURING CONSTRUCTION IS THE
- CONTRACTORS RESPONSIBILITY WITHOUT EXPENSE TO OWNER. 8. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH GOOD NURSERY AND LANDSCAPE PRACTICES. ANTIDESSECANT SUCH AS WILT-PROOF SHALL BE APPLIED TO TREES IN LEAF AT THE TIME OF PLANTING.
- 9. REMOVE ALL PLANT TYING MATERIAL AND MARKING TAPES AT THE TIME OF PLANTING.
- 10. BACKFILL TREES WITH SOIL REASONABLE FREE OF SUBSOIL, CLAY, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAT 2' AND ANY OTHER EXTRANEOUS OR TOXIC MATERIAL HARMFUL TO PLANT
- 11. WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. 12. PLANTING SCREEN SHALL BE MAINTAINED IN GOOD CONDITION UNTIL THE FACILITY
- HAS BEEN DECOMMISSIONED AND REMOVED. 13. THE OPEN AREAS BETWEEN THE PLANT SCREENING AND LOD WILL BE REMOVED.





| NO. | REVISION | DATE |
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Mechanicsburg, PA 17055

PRELIMINARY LAND DEVELOPMENT PLAN BROOKVIEW SOLAR I, LLC. **SOLAR PROJECT** MT. JOY TOWNSHIP, PA

DRAWING TITLE:

LANDSCAPE NOTES & DETAILS

| ISSUE FOR |
|-----------------|
| PERMITTING ONLY |
| NOT INTENDED |
| FOR |
| CONSTRUCTION |

OR BIDDING

PURPOSES.

| Y. I | SCALE: | AS NOTED |
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| | DATE: | 09/21/2021 |
| | DRAWN BY: | MKS/JJN |
| | CHECKED BY: | RAM |
| | PROJECT: | 434186 |
| | DRAWING NO.: | |

C-504

