

# Hartland Solar Project Town of Hartland, Somerset County, Maine Maine DEP Permit Plans

451 Presumpscot Street

Portland, ME 04103

(207) 358-2400



www.tetratech.com

# PROJECT LOCATION:

BURRILL WOODS ROAD HARTLAND, ME 04943

### LANDOWNER:

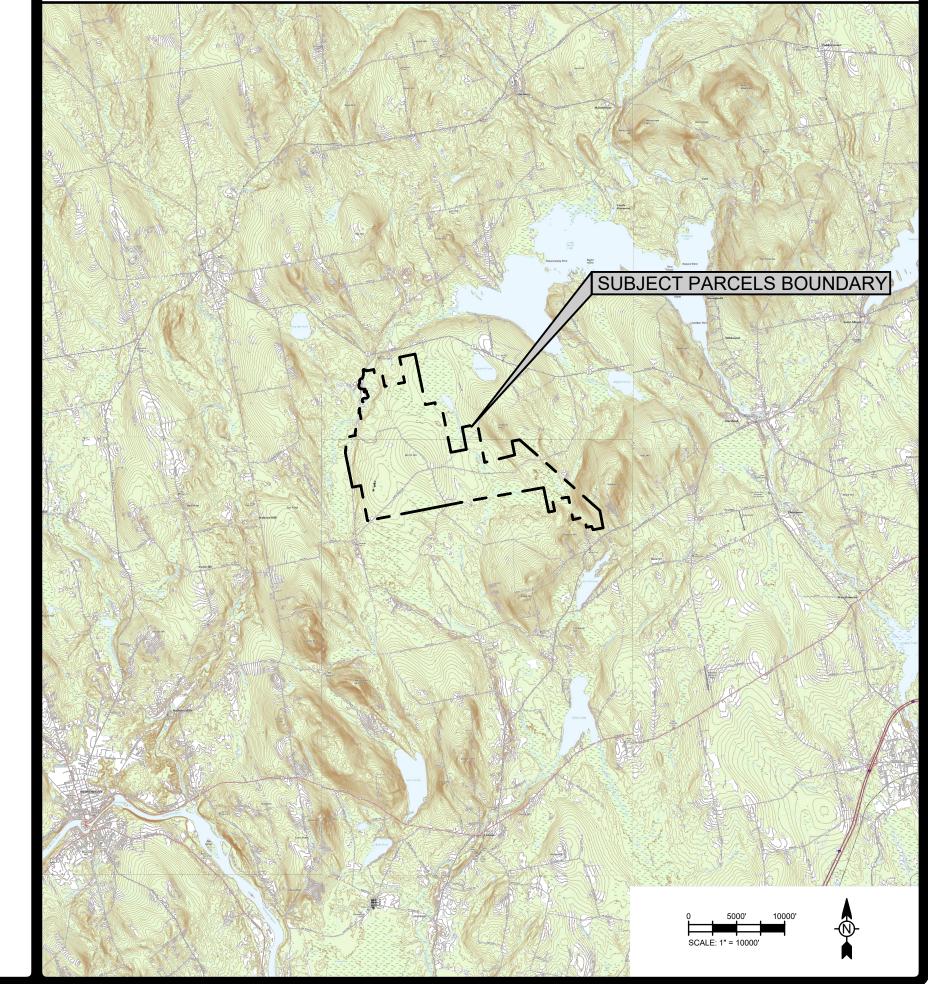
WEYERHAEUSER COMPANY 220 OCCIDENTAL AVENUE S SEATTLE, WA 98104

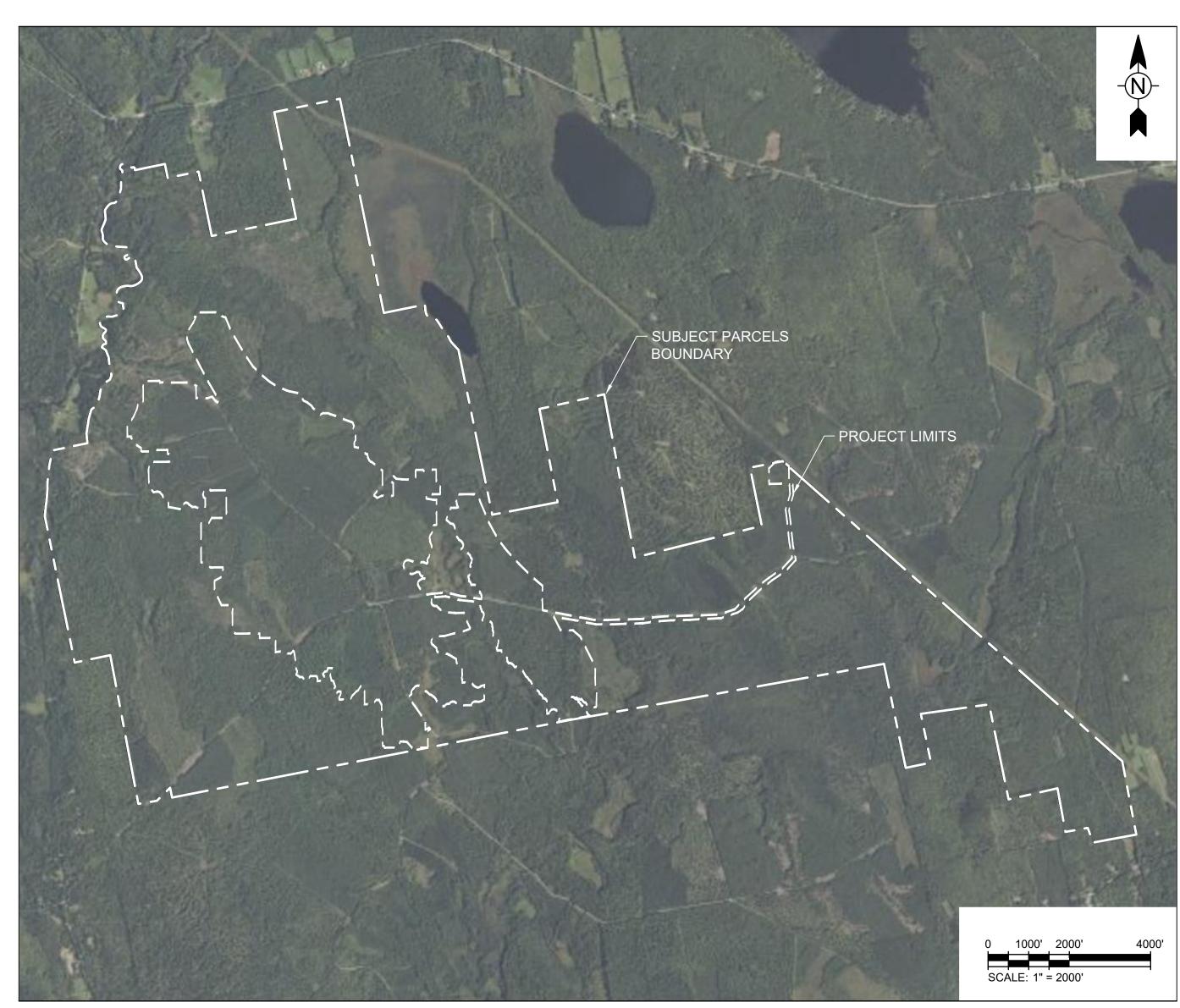
APPLICANT:
HARTLAND SOLAR FACILITY, LLC
500 UNION STREET, SUITE 625 SEATTLE, WA 98101

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# LOCUS:

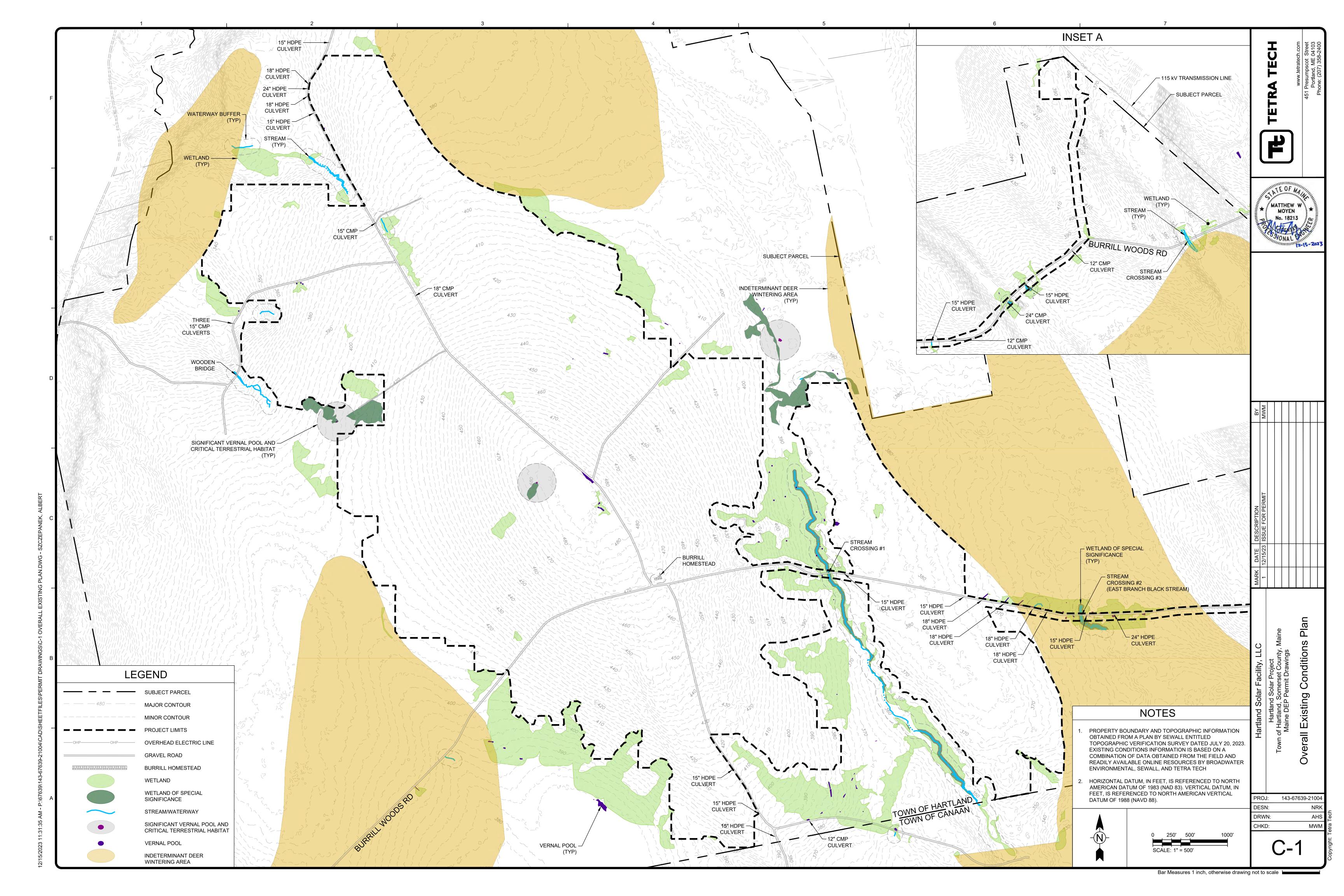


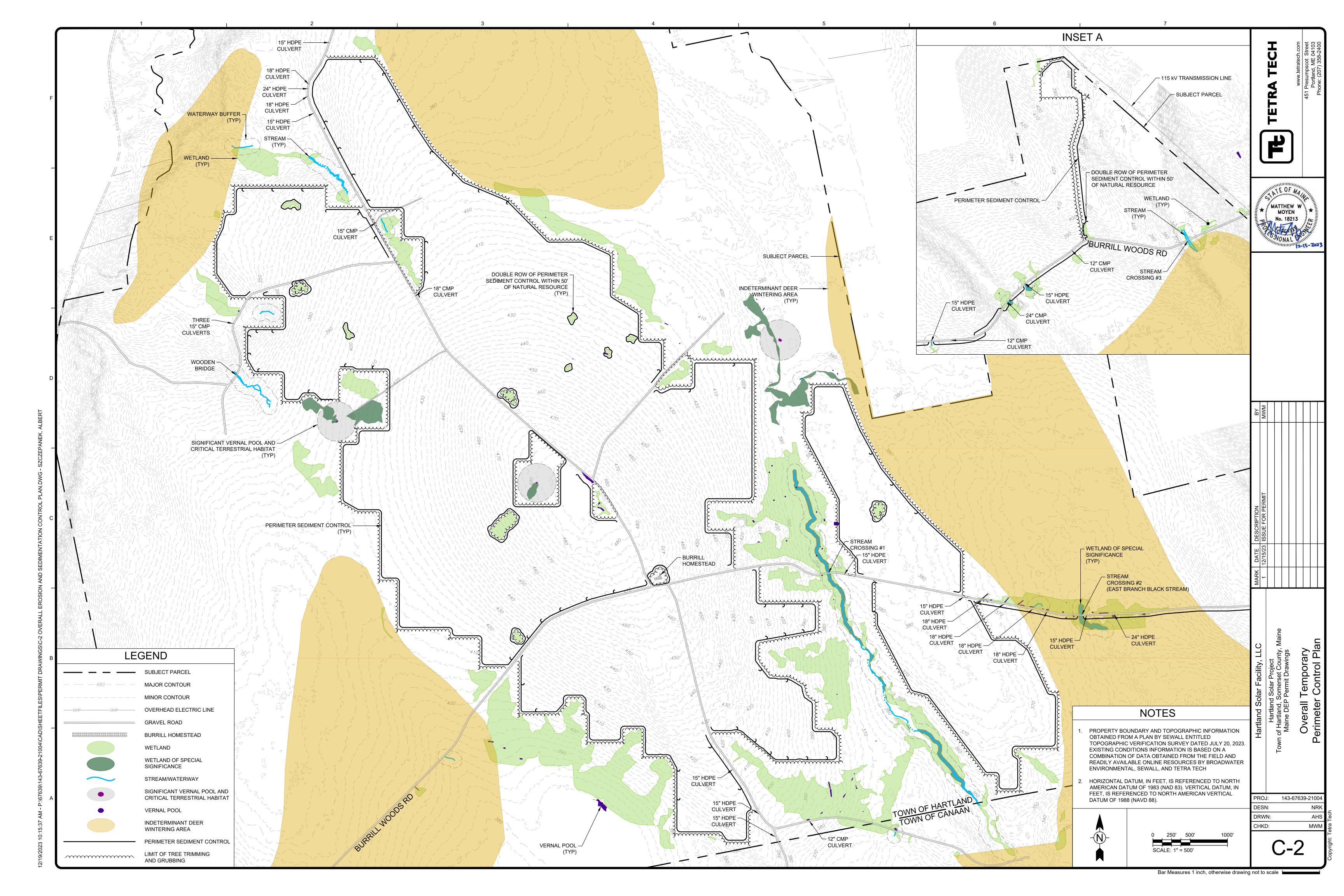


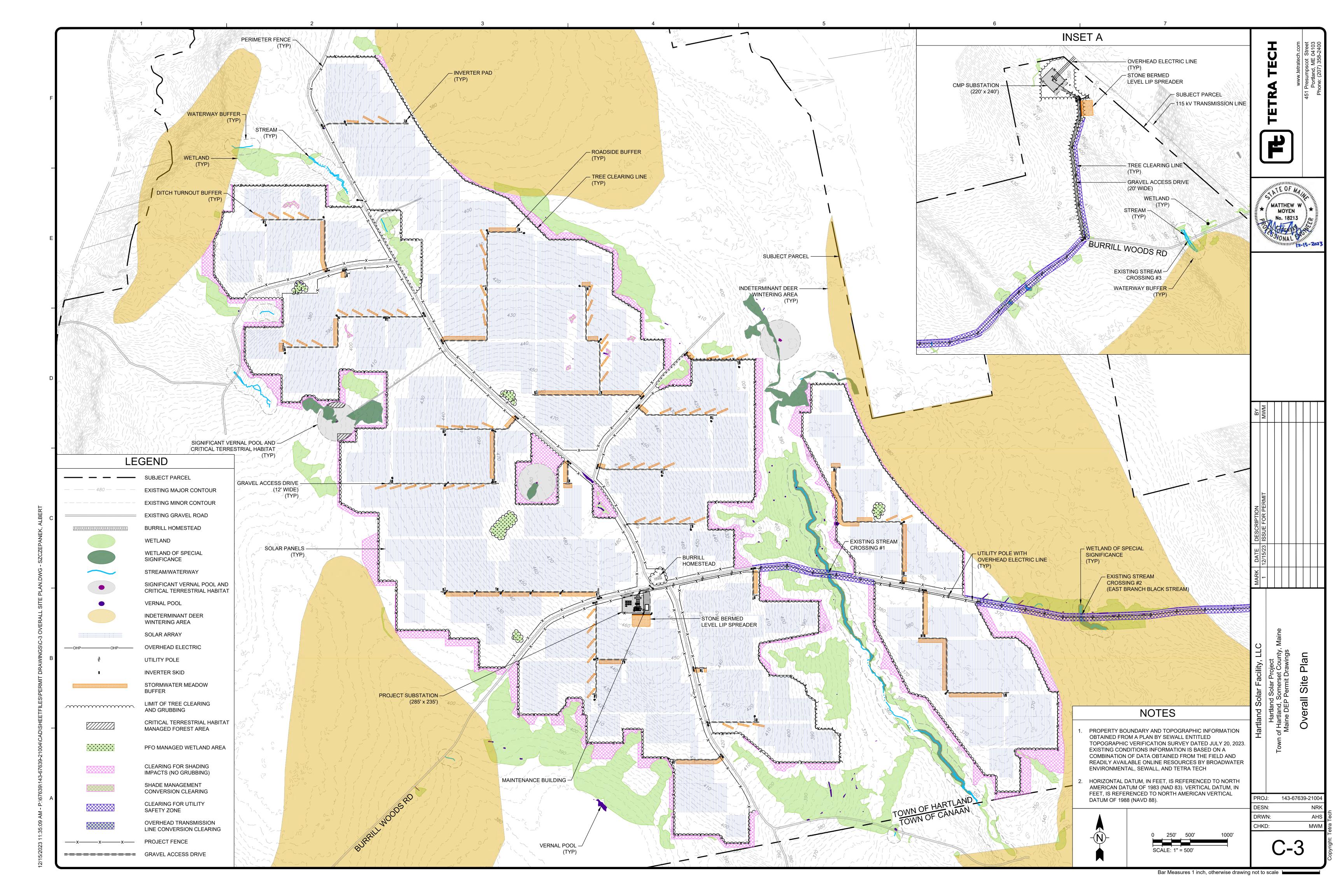
**LOCATION MAP** 

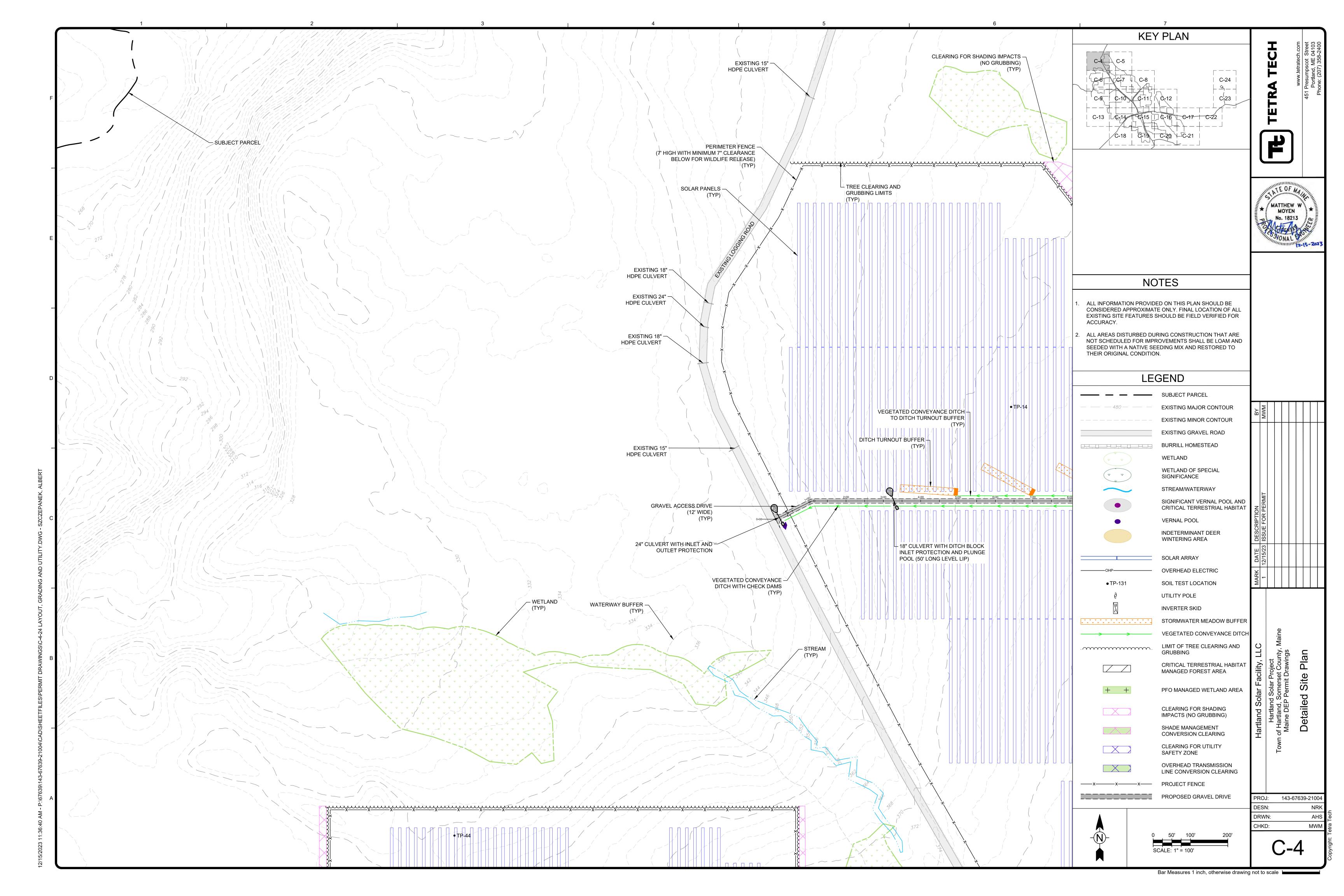
SHEET NO.	SHEET TITLE
	COVER SHEET
C-1	OVERALL EXISTING CONDITIONS PLAN
C-2	OVERALL TEMPORARY PERIMETER CONTROL PLAN
C-3	OVERALL SITE PLAN
C-4 TO C24	DETAILED SITE PLANS
C-25	PROJECT SUBSTATION SITE PLAN
C-26	CMP SUBSTATION SITE PLAN
C-27 TO C-28	EROSION AND SEDIMENTATION CONTROL PLANS

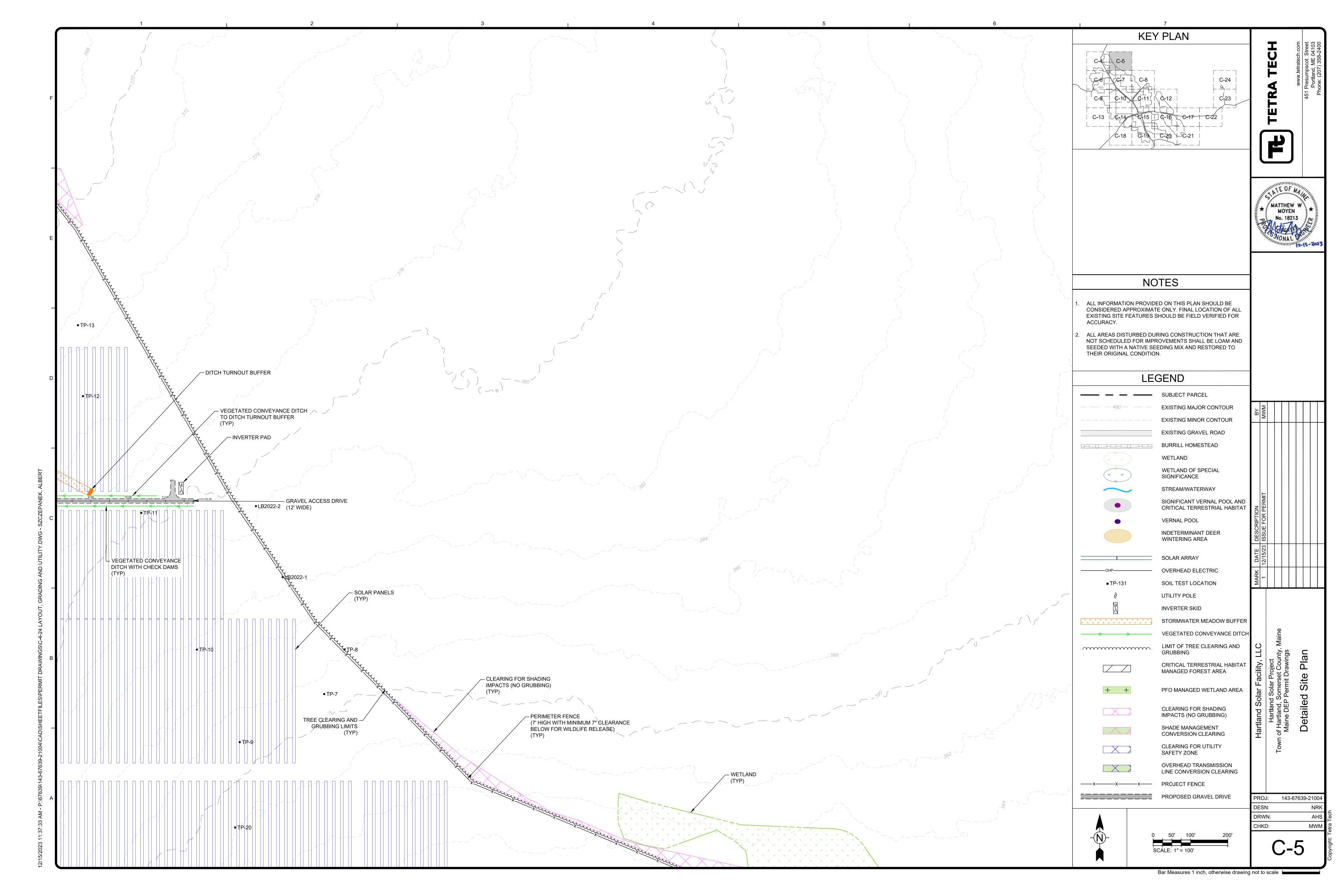


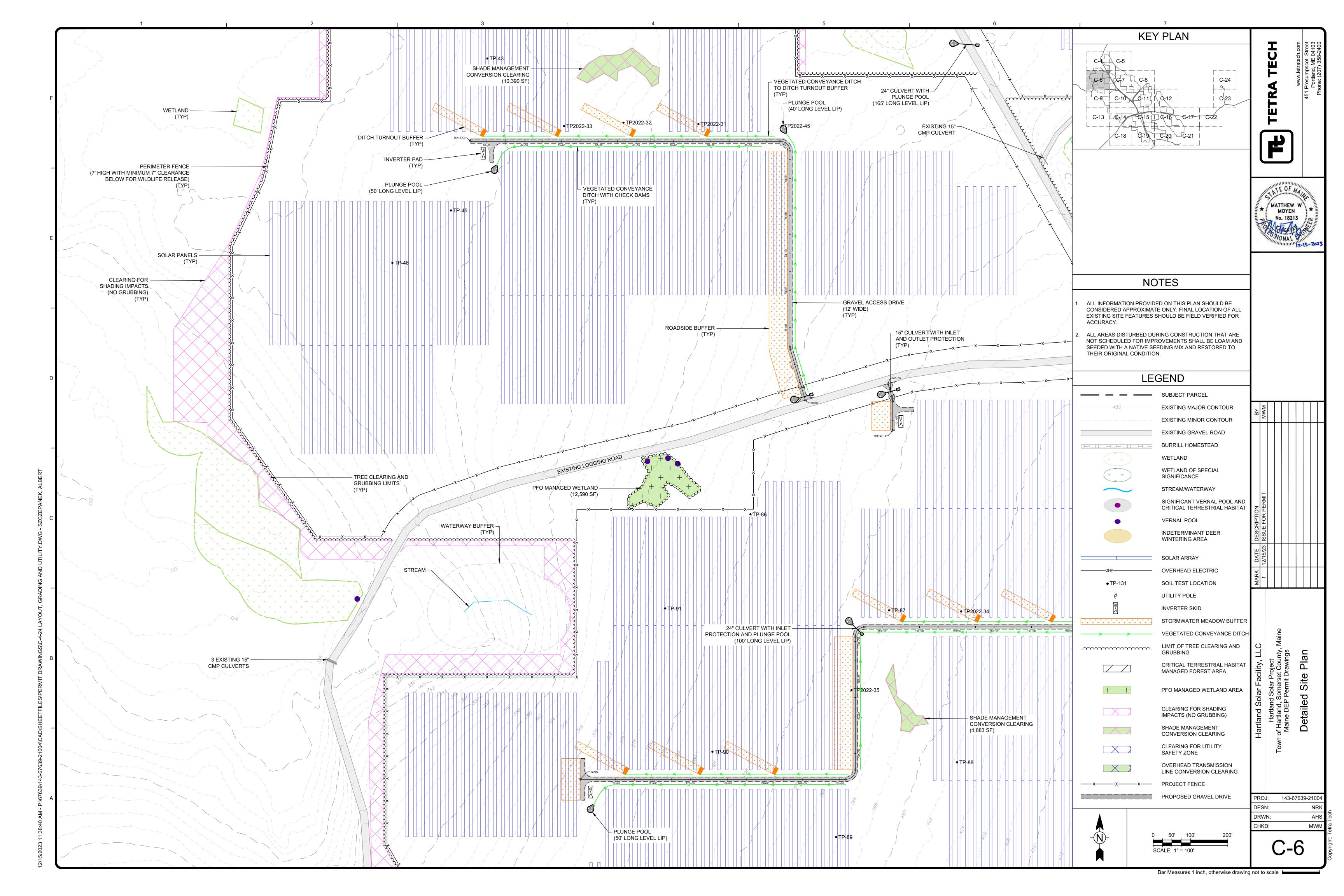


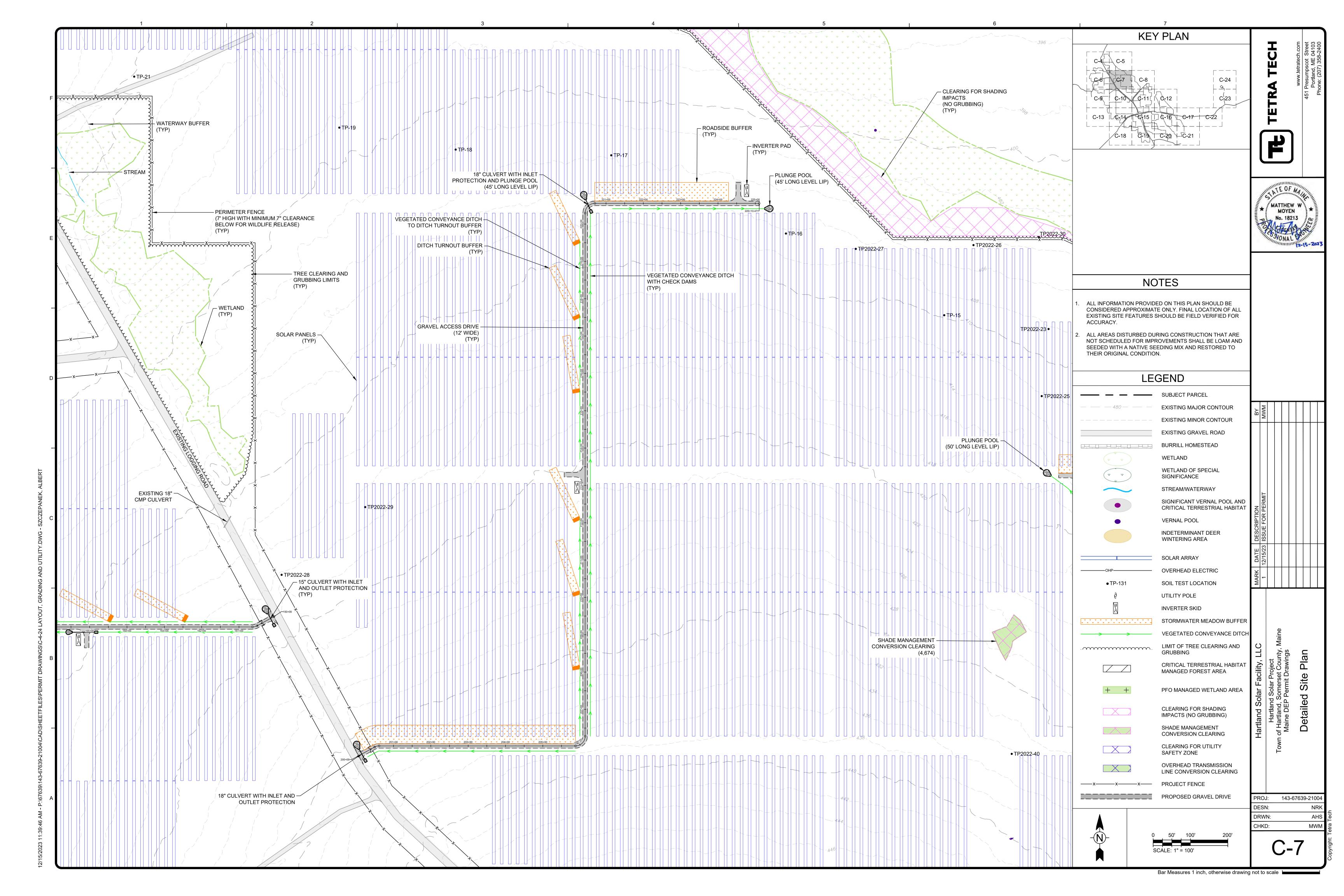


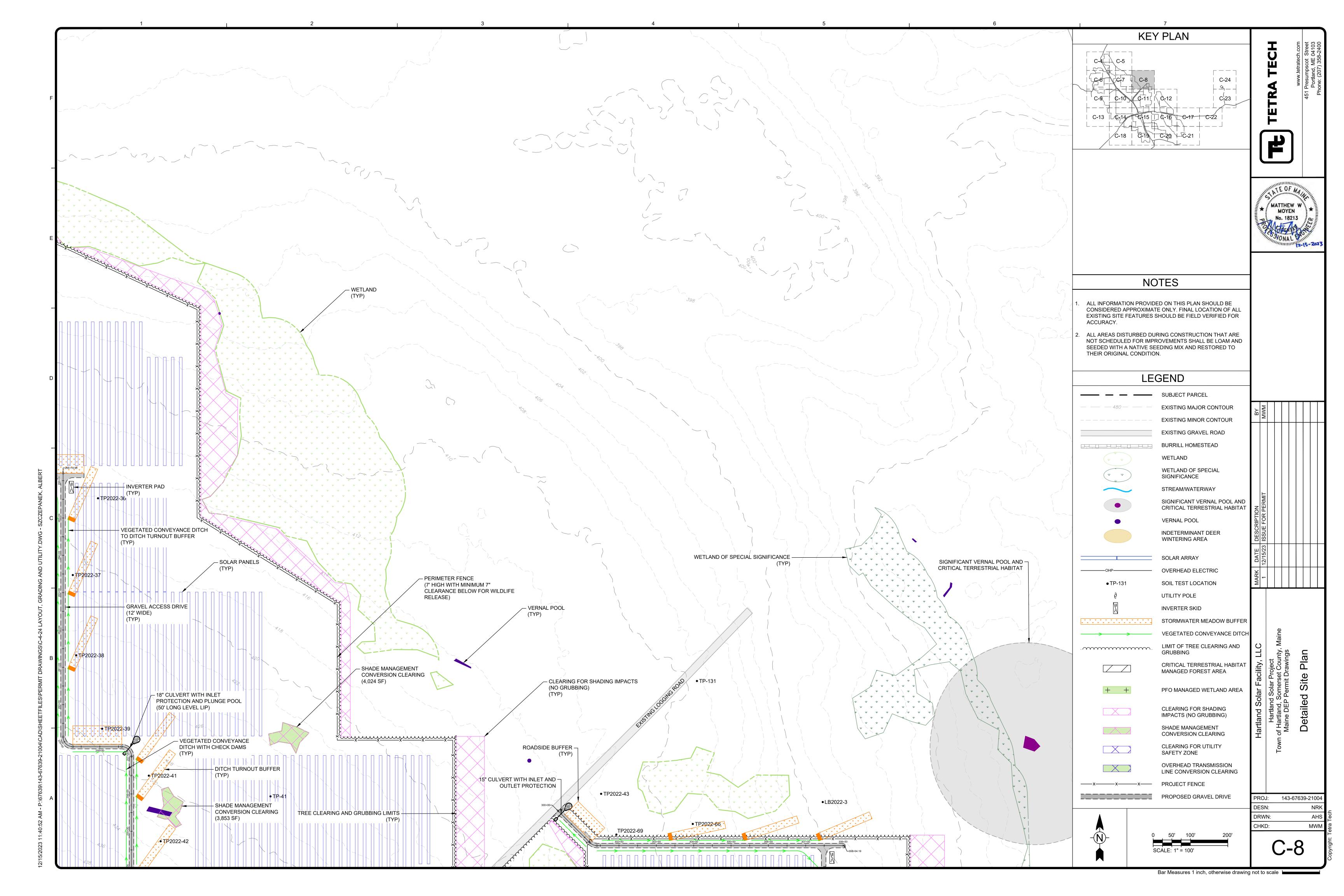


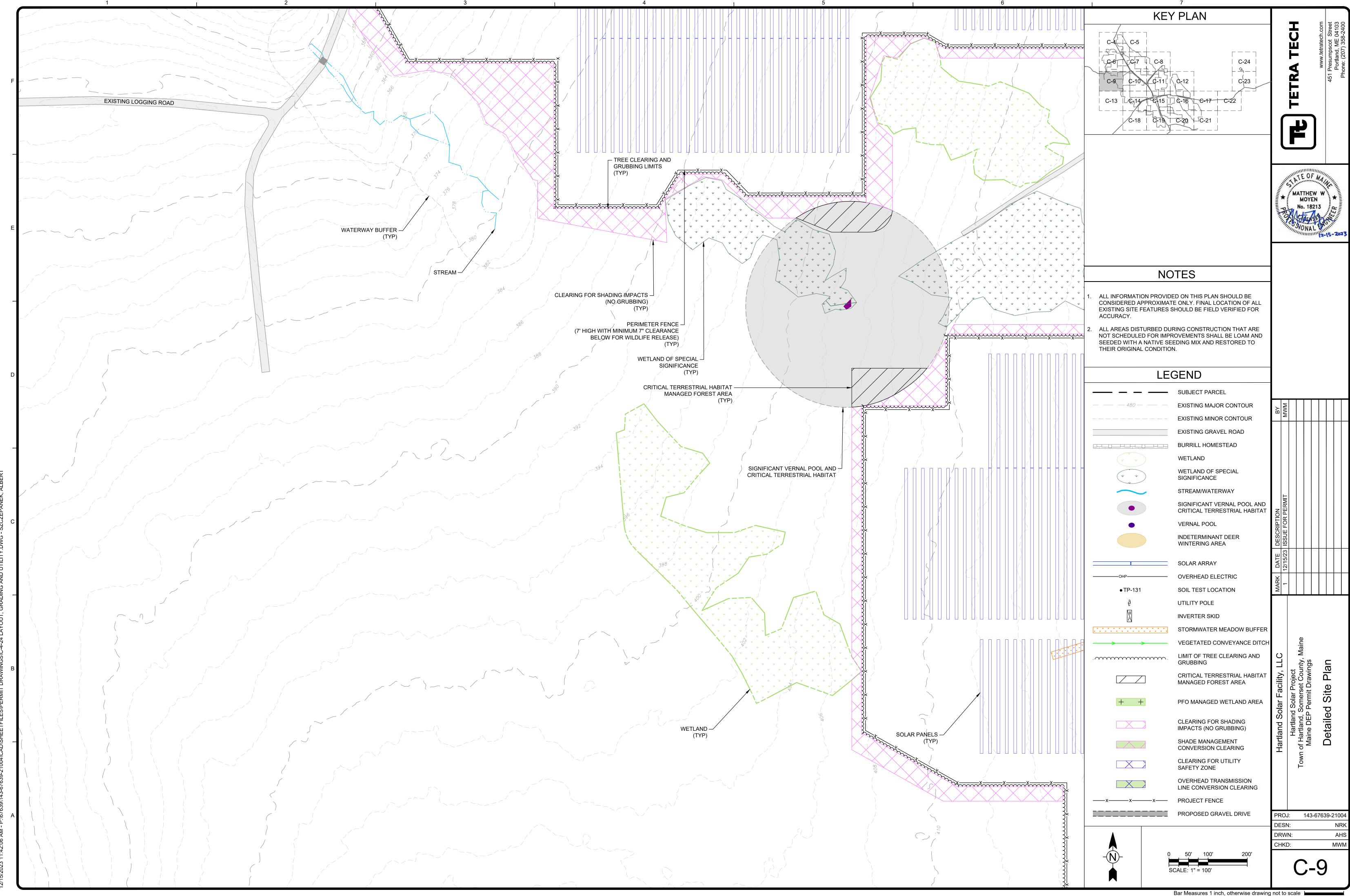


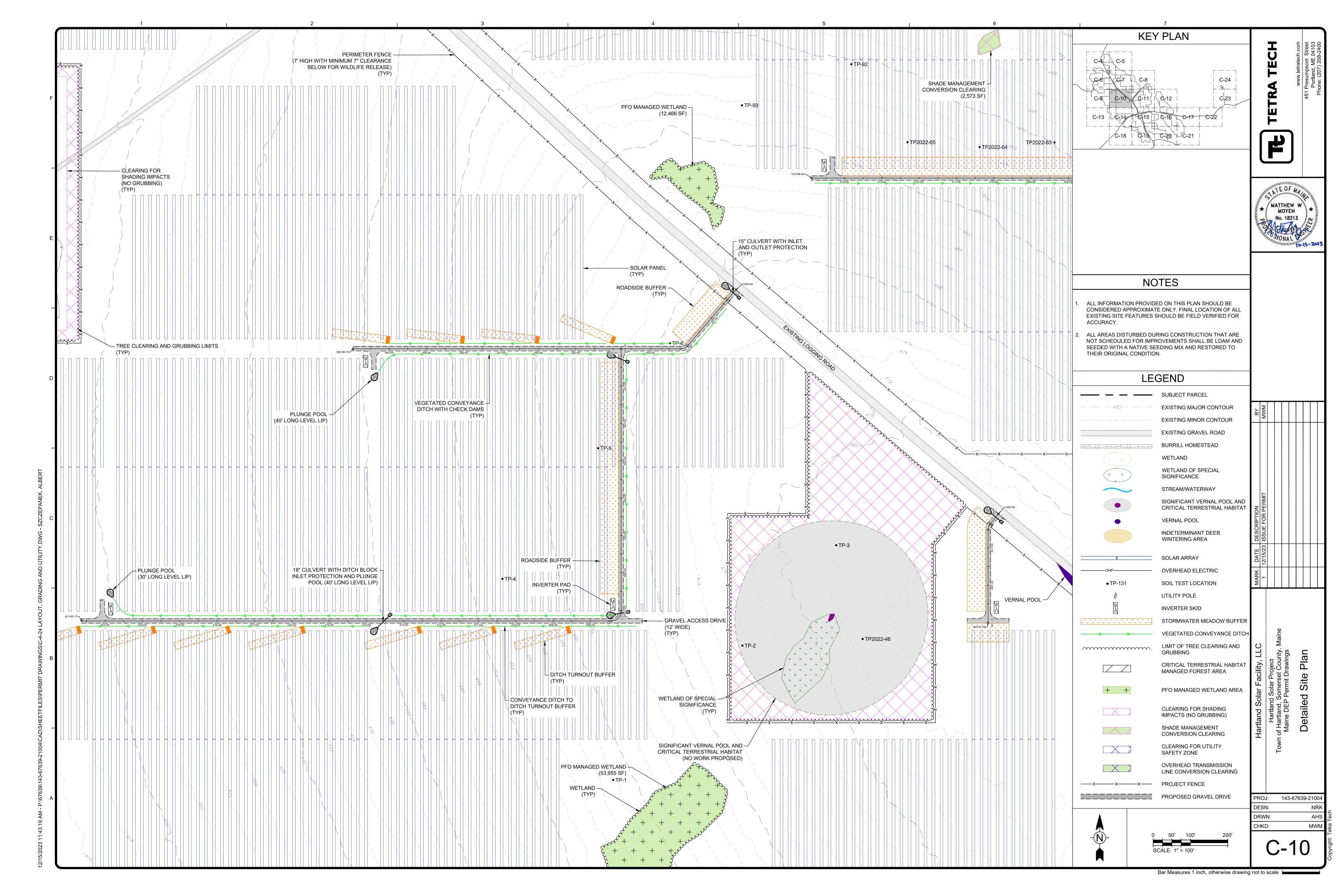


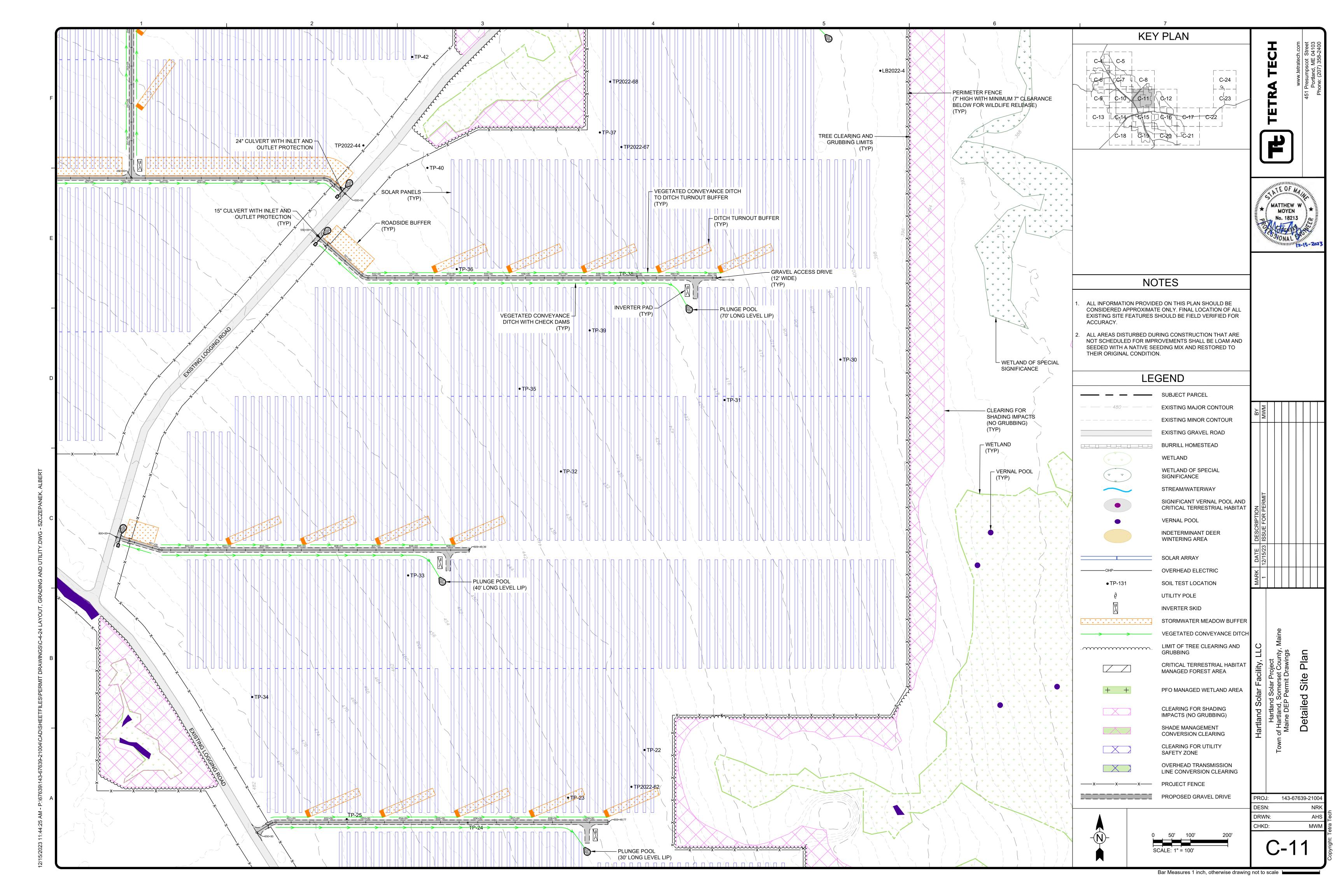


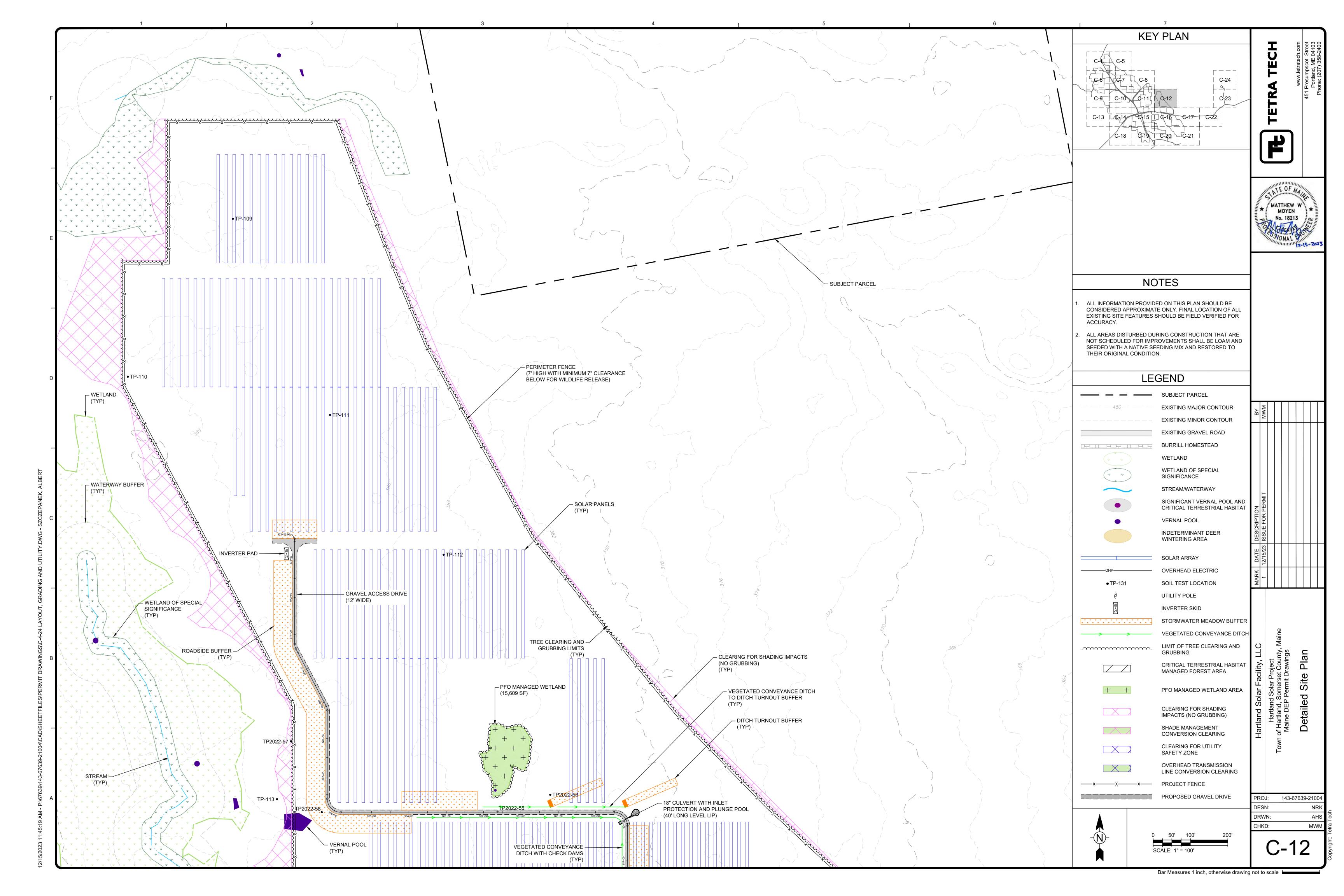


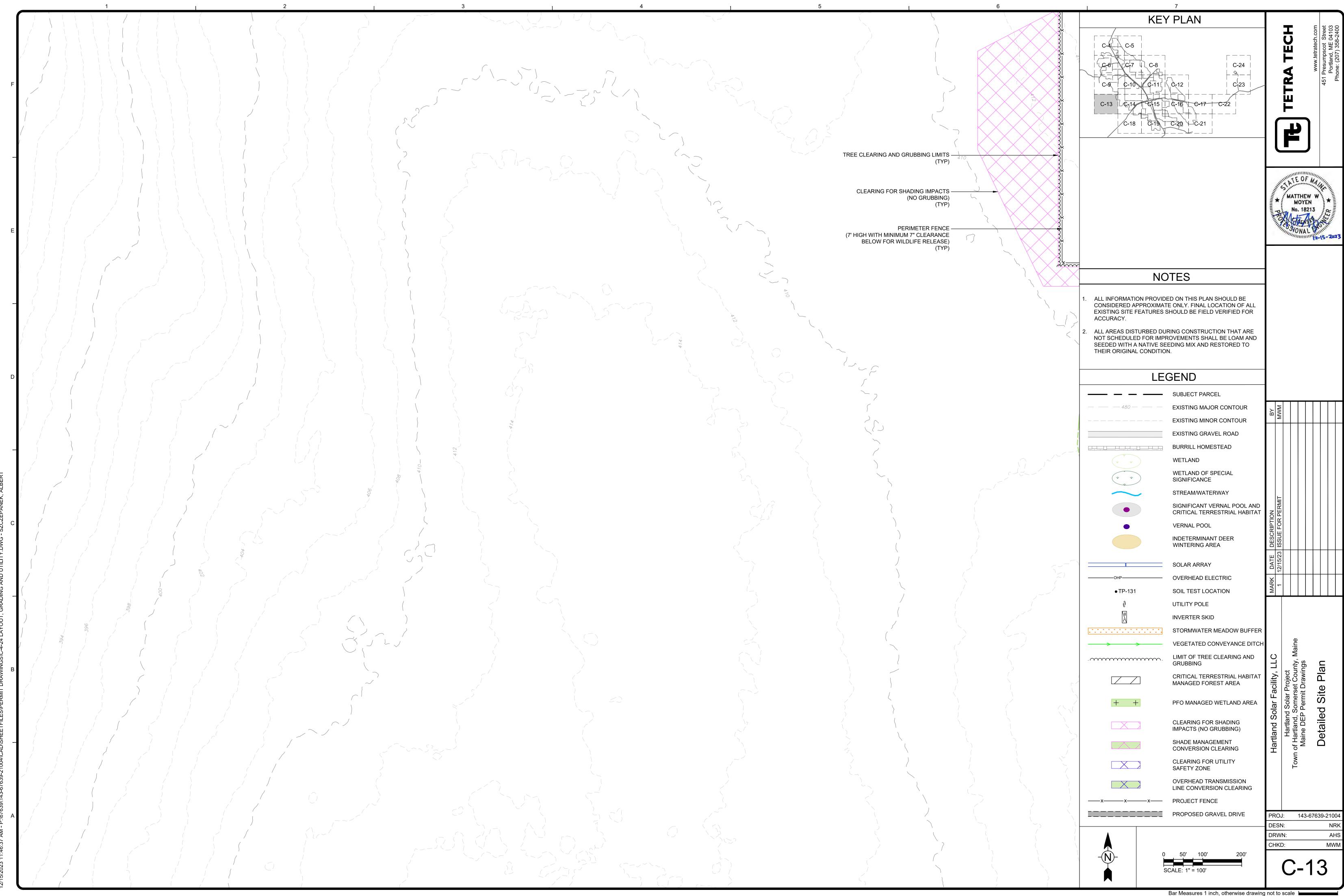


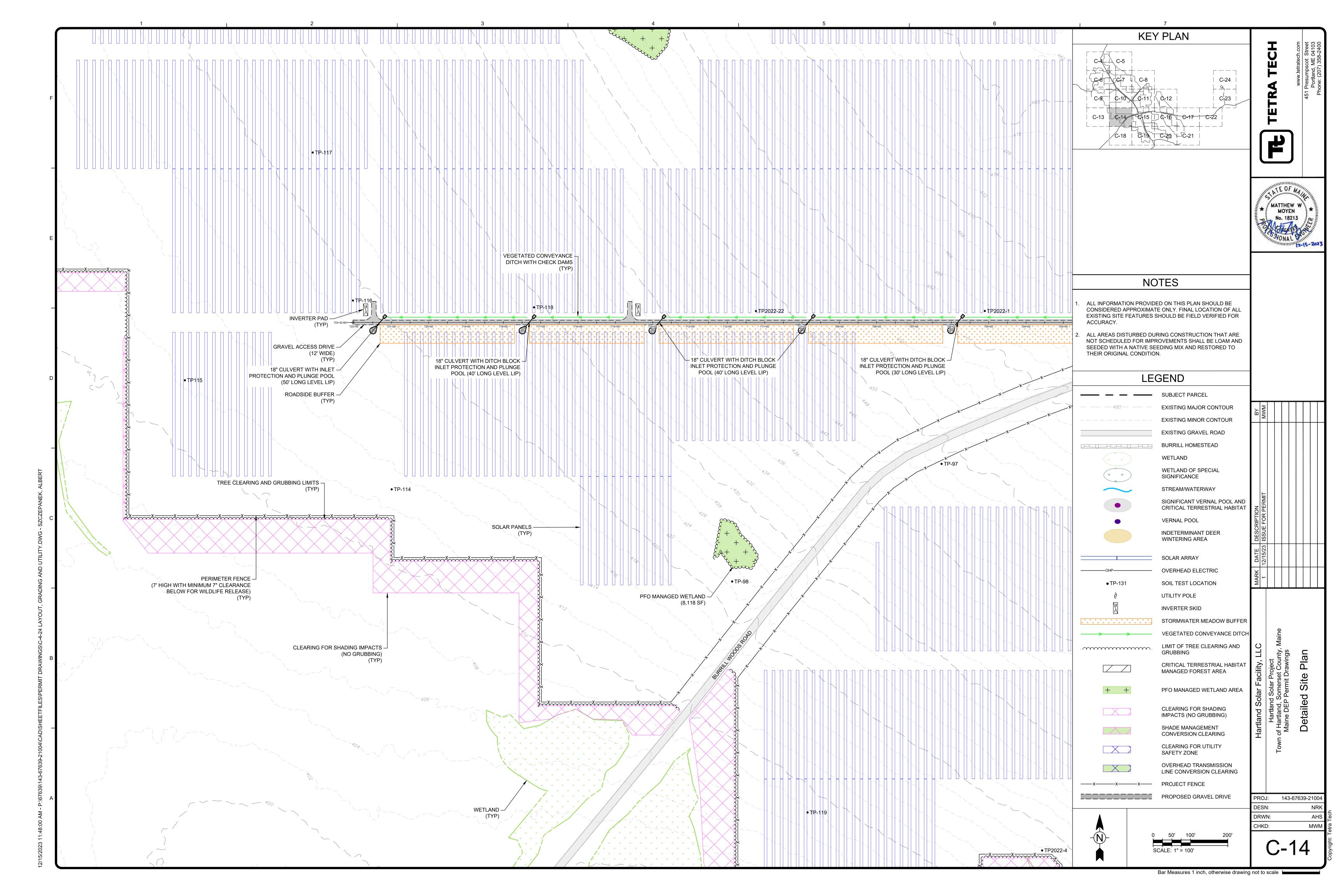


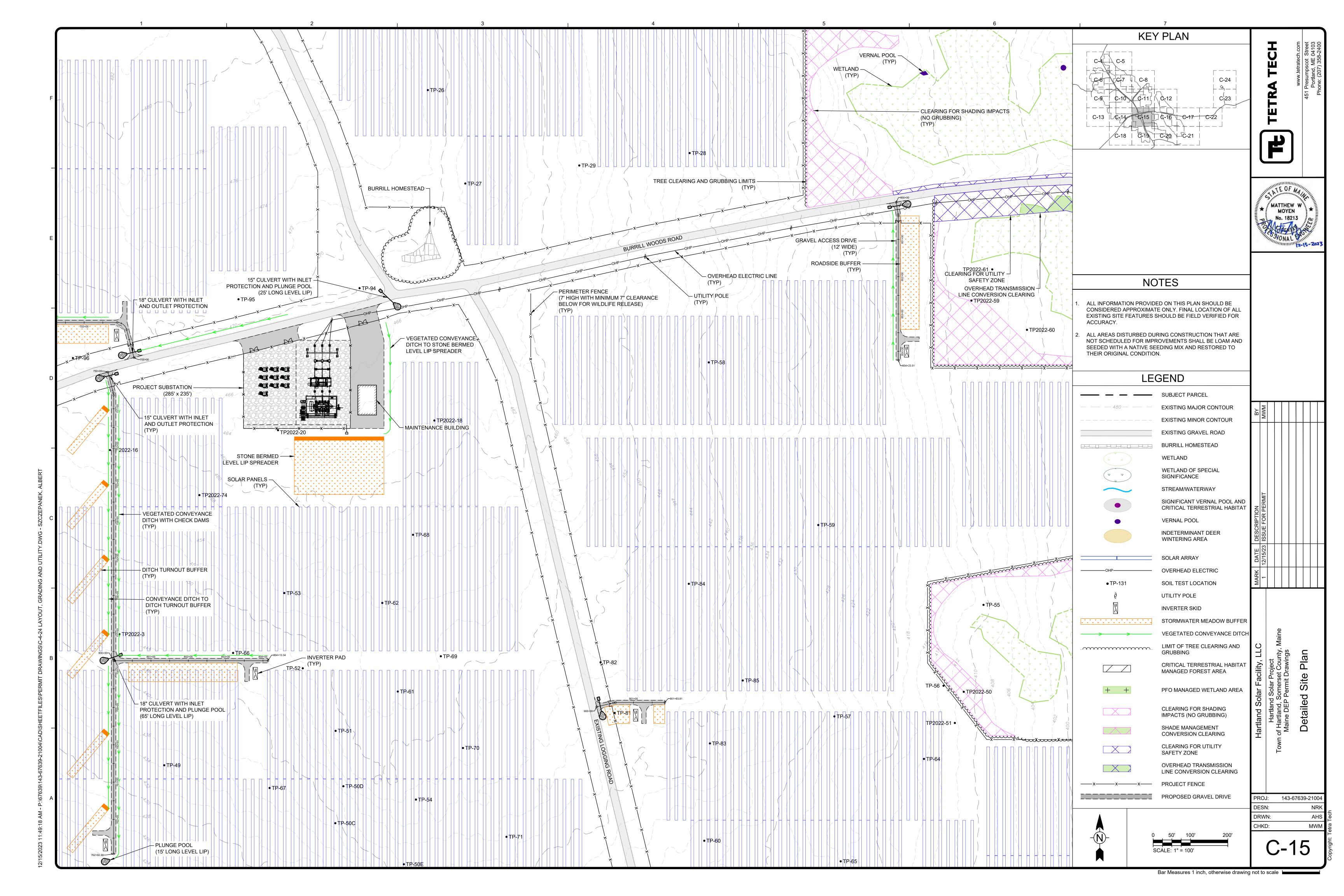


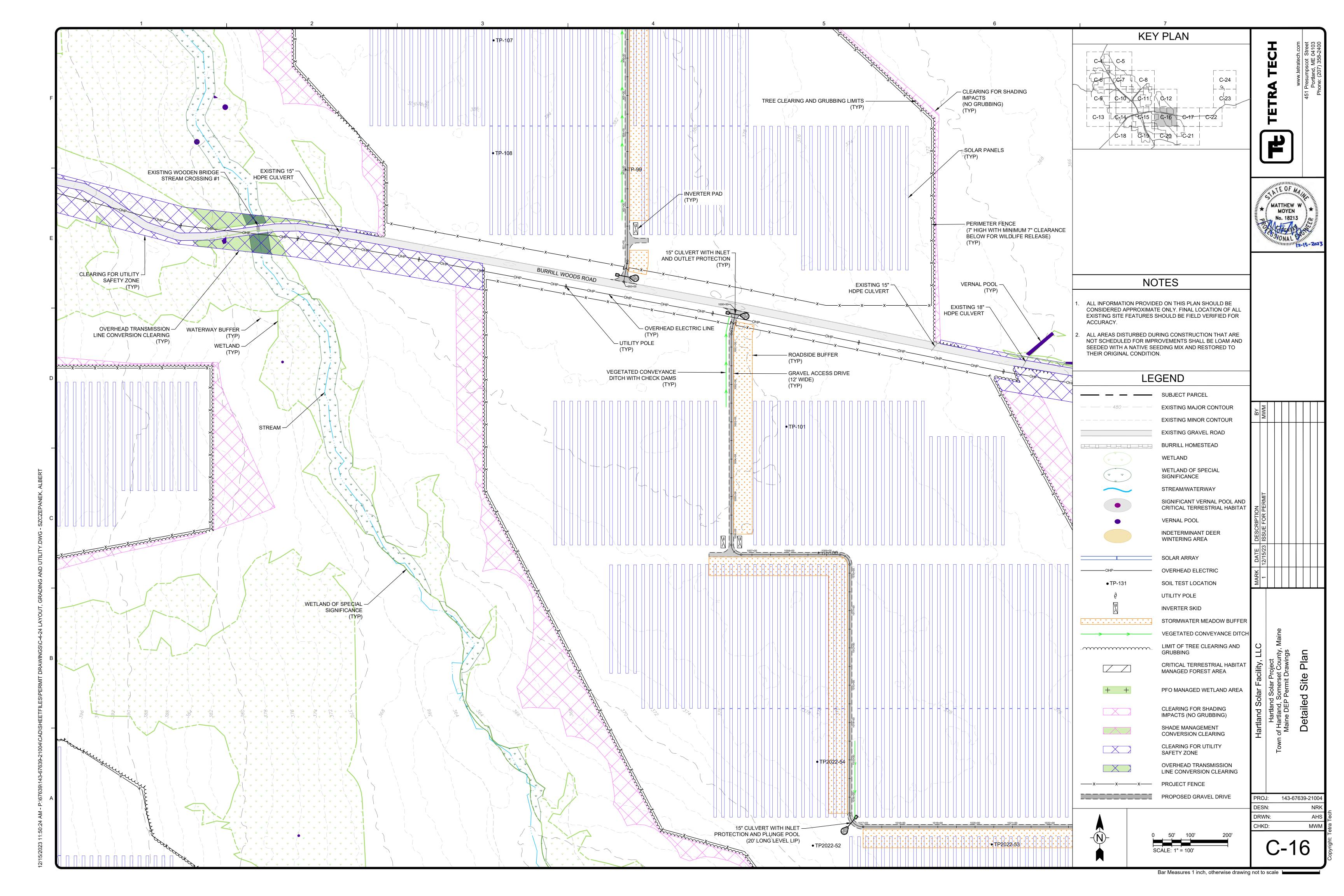


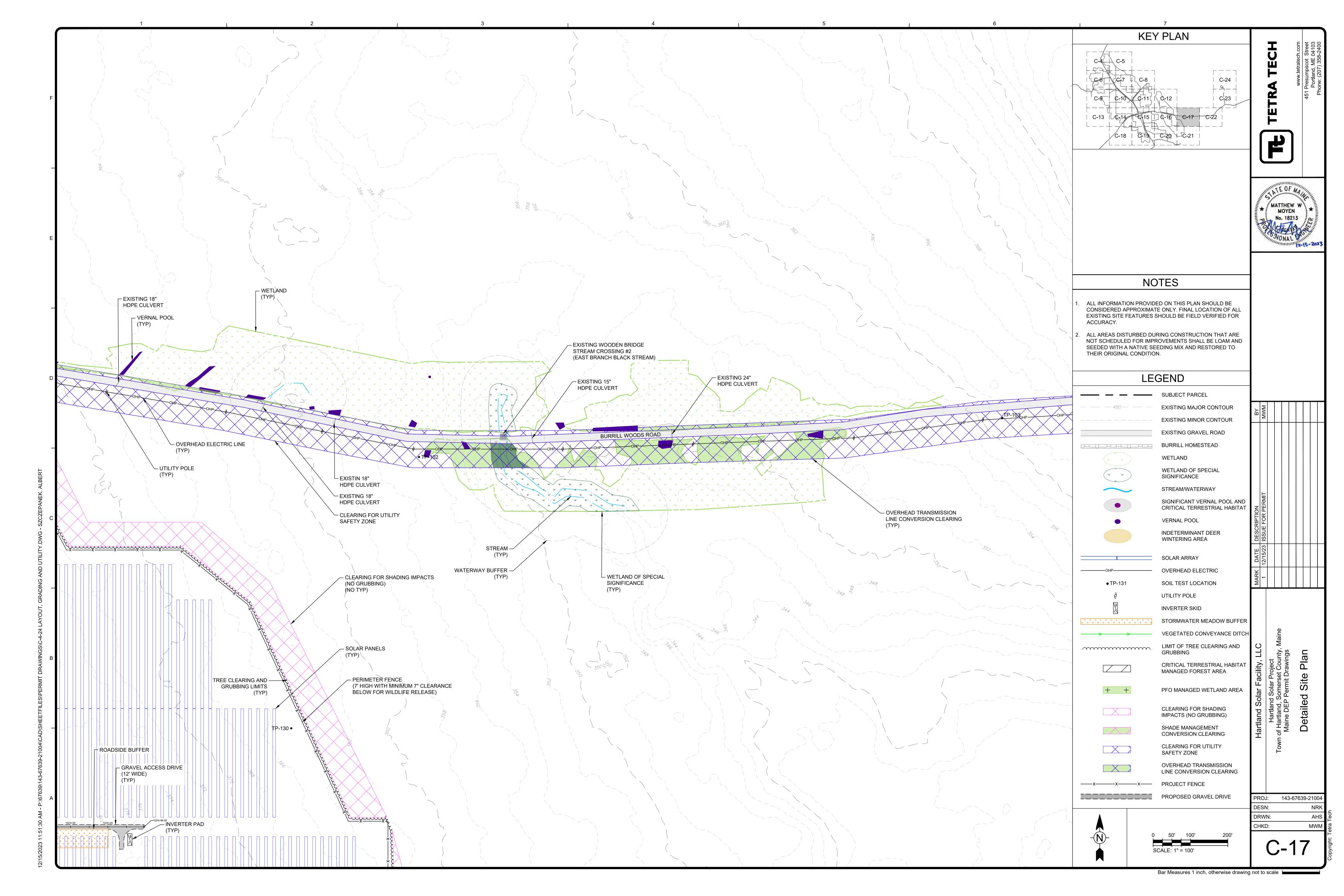


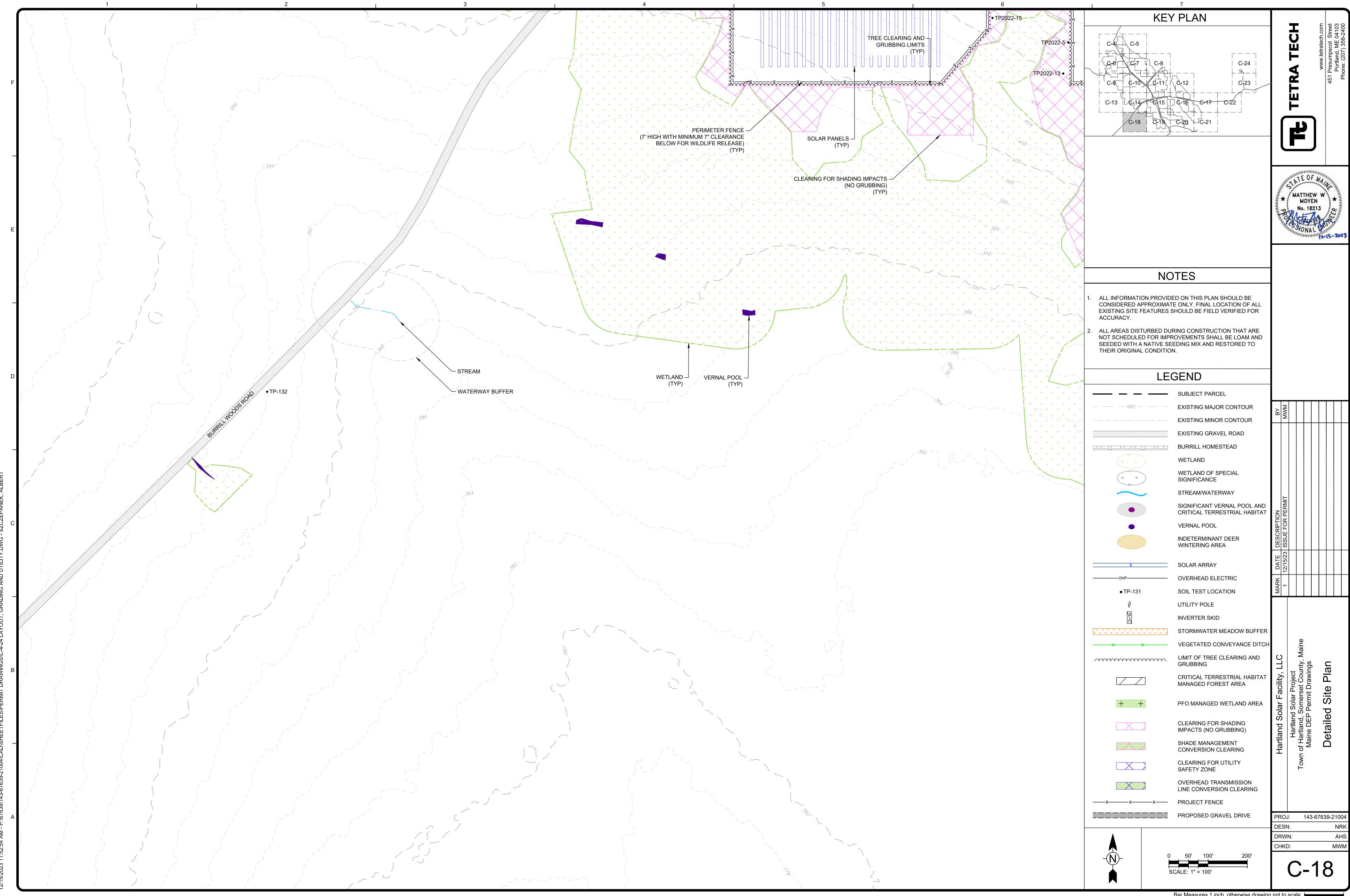


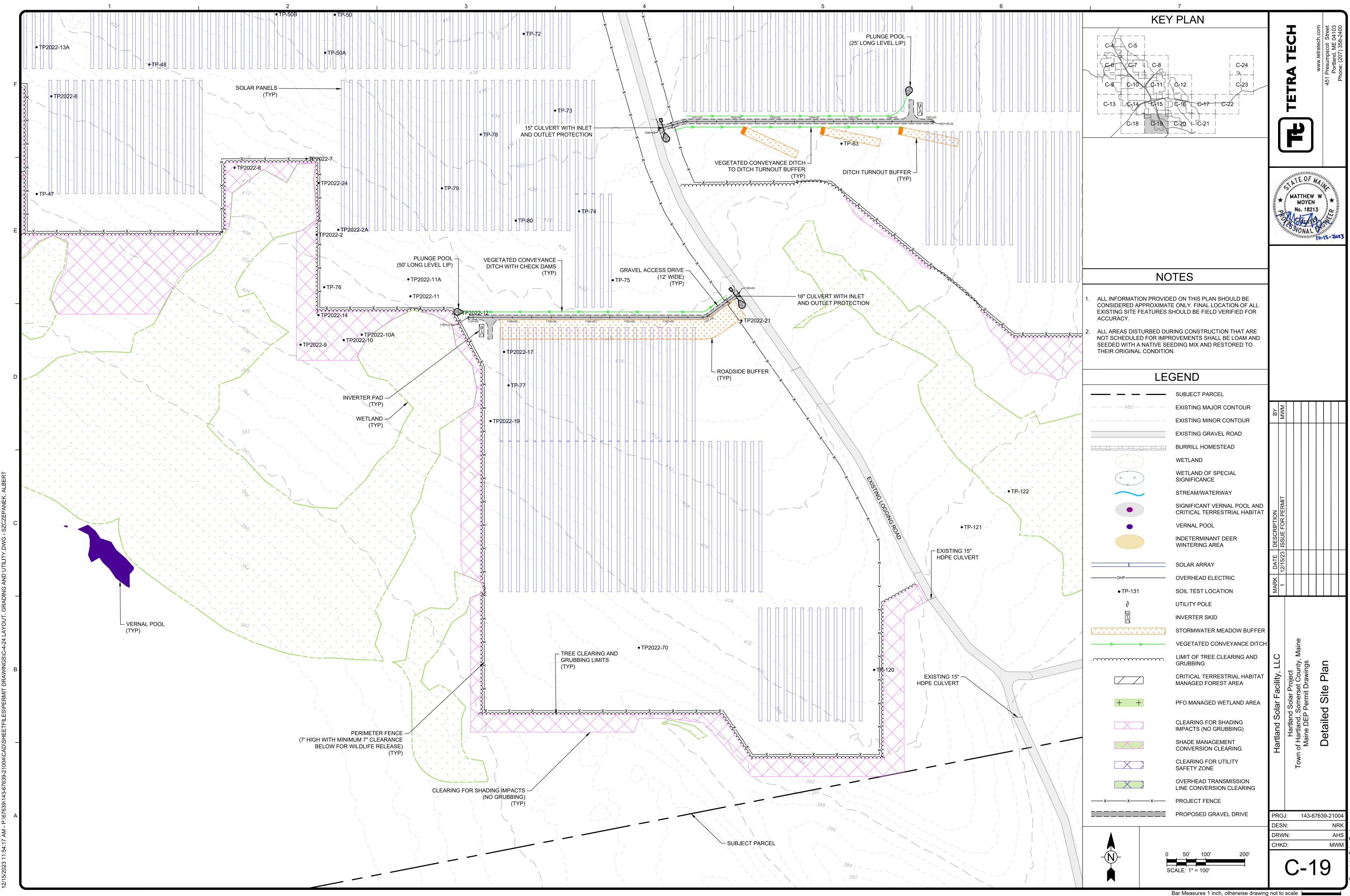


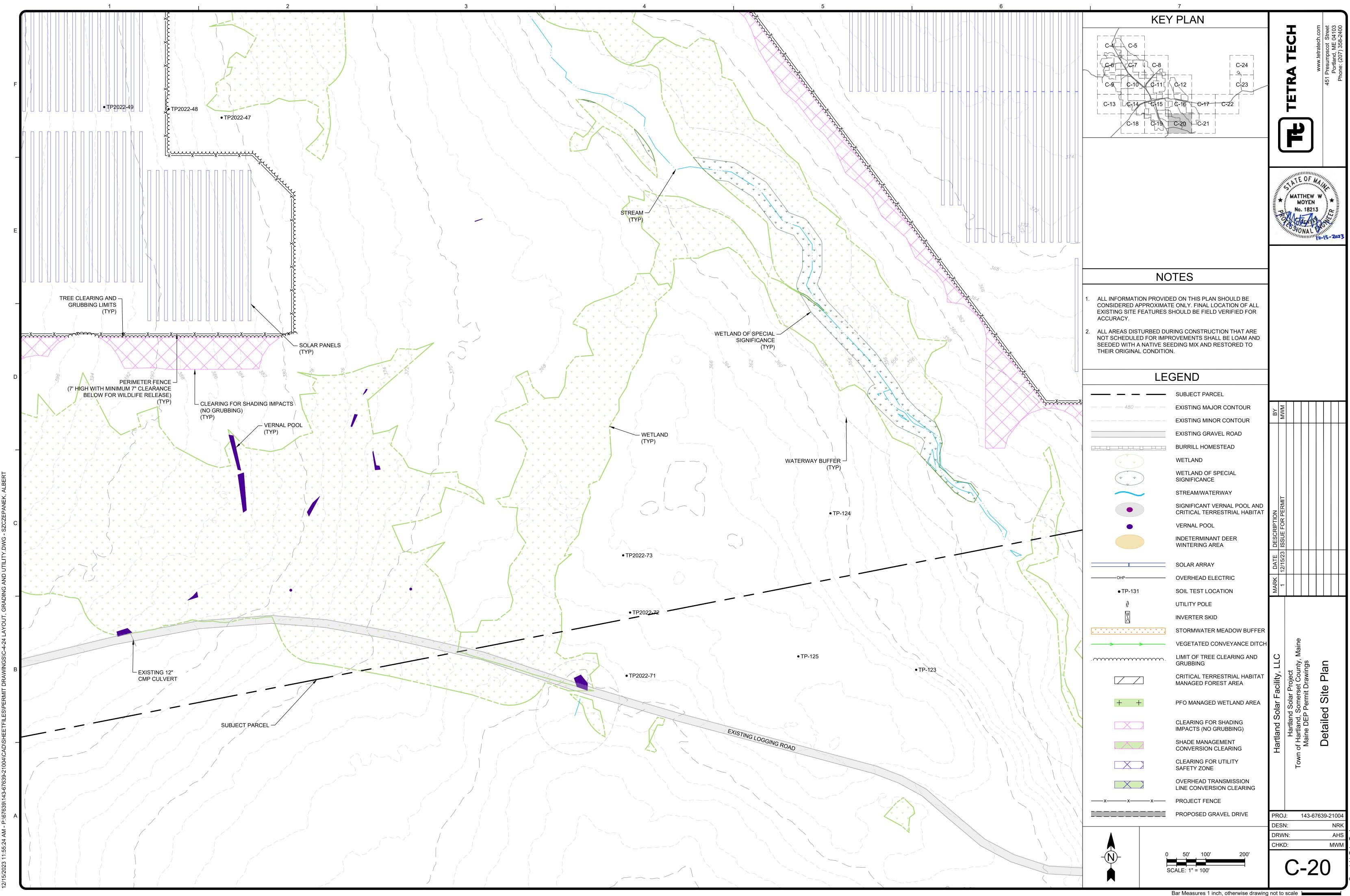


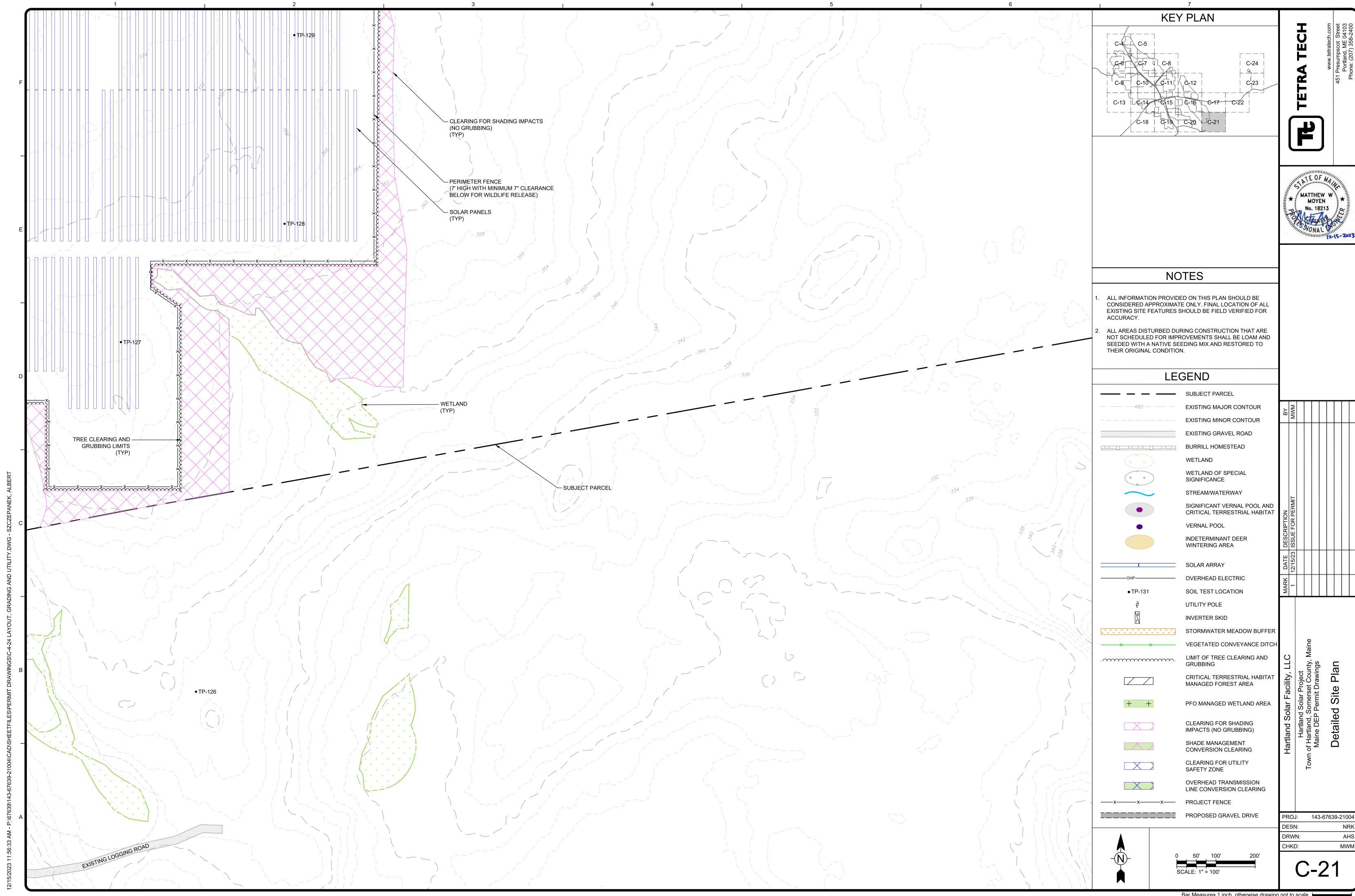


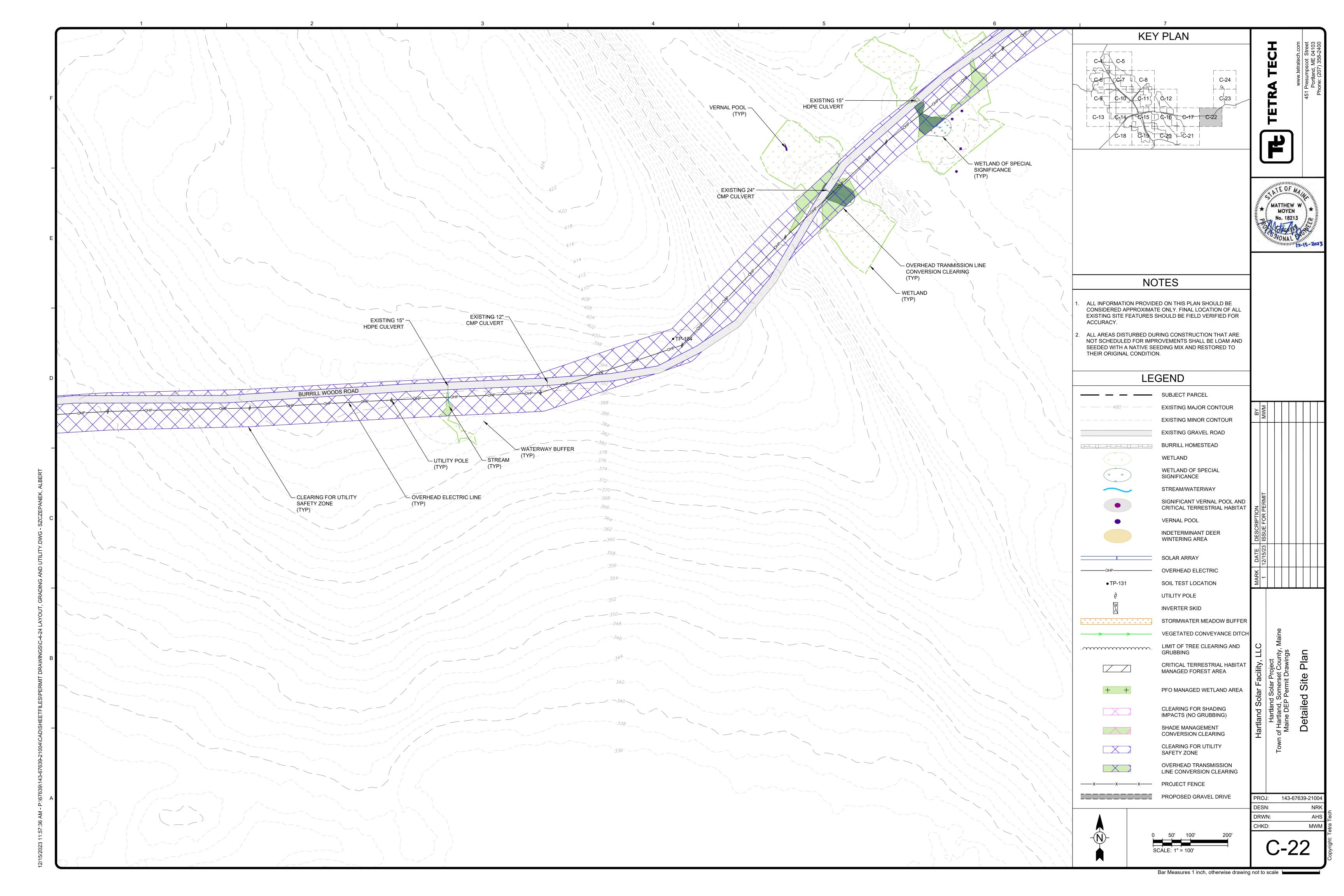


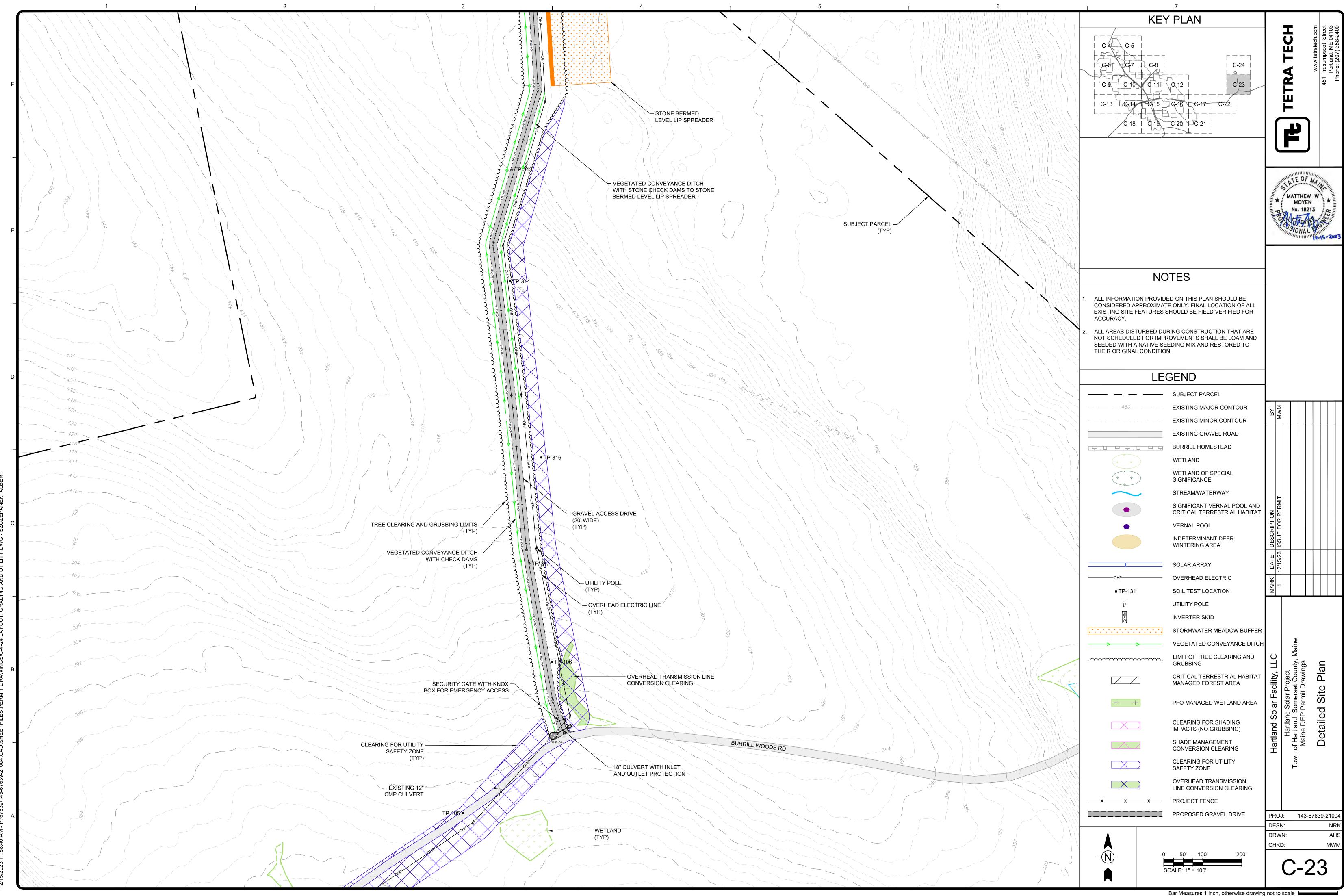


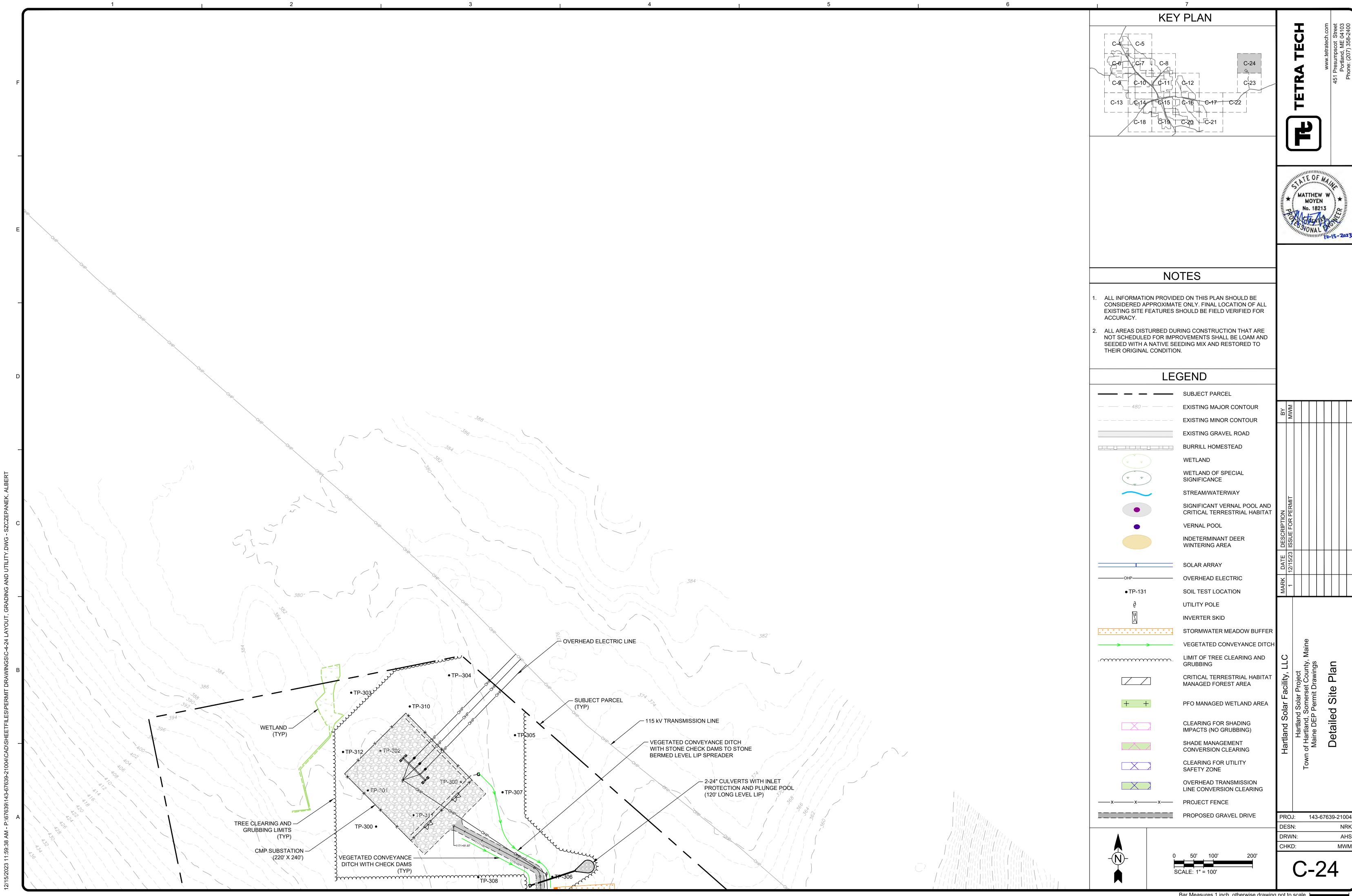


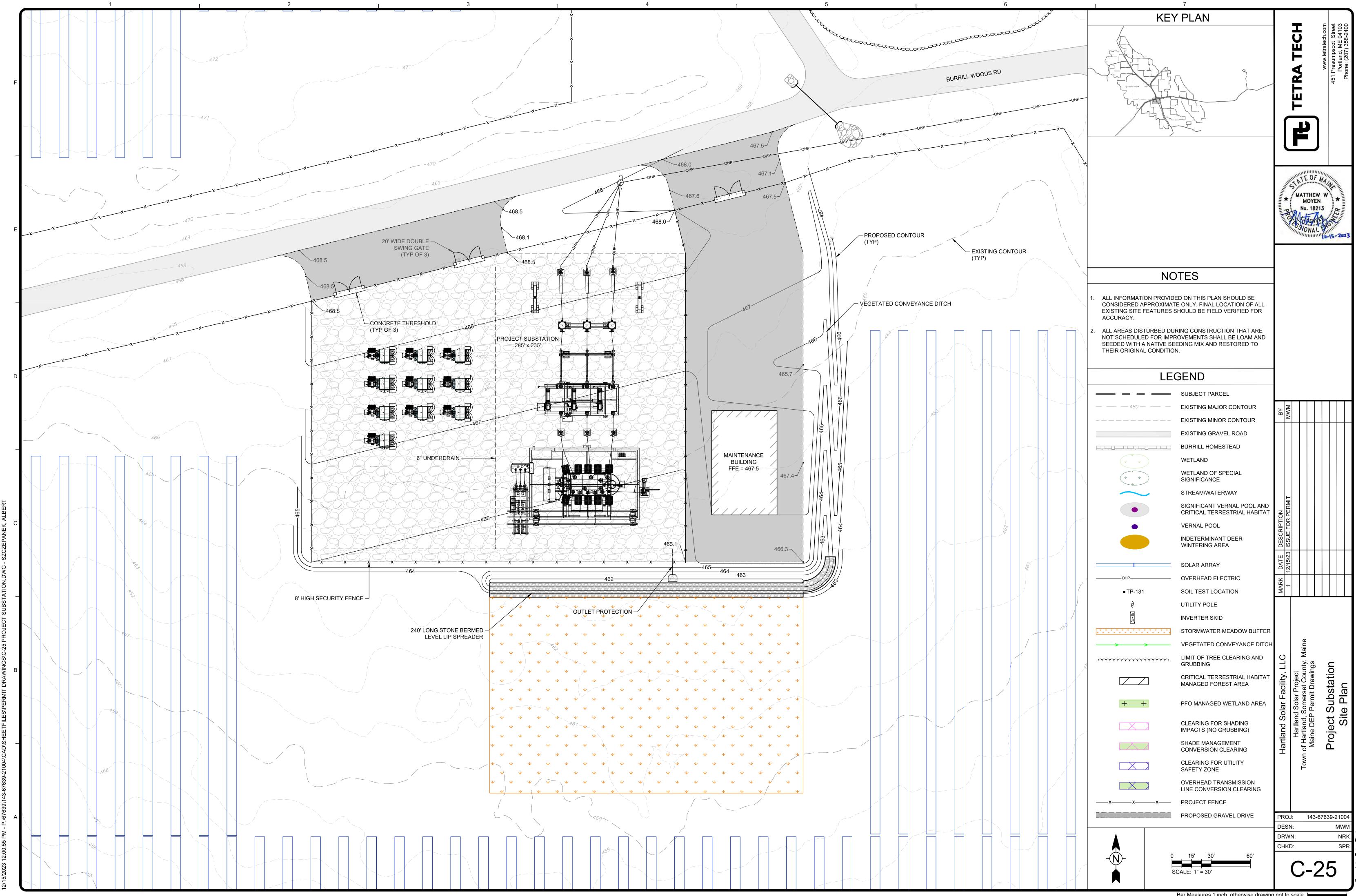


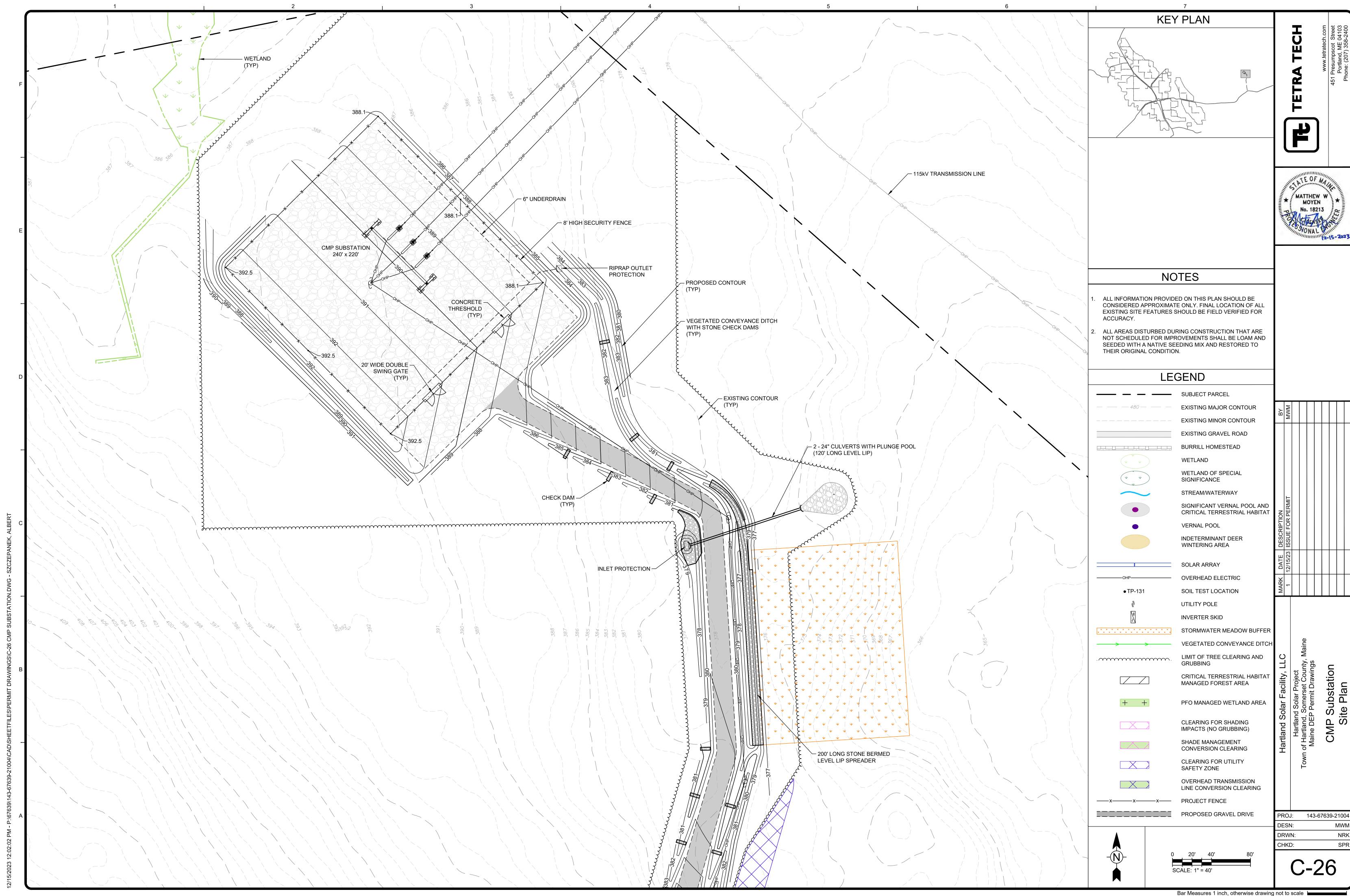












- a. IDENTIFY NATURAL RESOURCES AND VEGETATED BUFFERS TO BE
- b. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES
- CONSTRUCTION:
- a. CONDUCT CLEARING AND DE-STUMPING OPERATIONS
- b. CONSTRUCT GRAVEL ACCESS DRIVES AND STAGING AREAS
- c. INSTALL STORMWATER MANAGEMENT PRACTICES d. CONSTRUCT EQUIPMENT PADS AND INSTALL UNDERGROUND UTILITY
- INFRASTRUCTURE e. INSTALL RACKING SYSTEM, SOLAR PANELS, COLLECTOR LINES,
- SUBSTATIONS, AND EQUIPMENT

f. CONSTRUCT MAINTENANCE BUILDING

- g. INSTALL PERIMETER FENCING AND SECURITY MEASURES
- SITE RESTORATION:
- a. PERFORM SOIL RESTORATION, FINAL SEEDING, AND STABILIZATION
- b. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ONCE PERMANENT STABILIZATION HAS BEEN ACHIEVED

### **GENERAL EROSION AND SEDIMENTATION CONTROL NOTES**

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) CONSTRUCTION GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- EROSION AND SEDIMENTATION CONTROL MEASURES REPRESENT THE MINIMUM MEASURES TO BE EMPLOYED. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS NECESSARY TO MEET FIELD CONDITIONS DURING ALL PHASES OF CONSTRUCTION. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL COMPLY WITH THE MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (2016) AND MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS (2014),
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE EXCAVATION OR DISTURBANCE AND SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
- 4. LIMIT THE AMOUNT OF EXPOSED SOIL TO NO MORE THAN 10 ACRES AT ONE TIME PER WORK AREA. NO MORE THAN TWO WORK AREAS SHALL BE OPENED SIMULTANEOUSLY WITH WORK AREAS LOCATED IN SEPARATE WATERSHEDS AND ATTENDED TO BY SEPARATE WORK CREWS, EACH WITH A DEDICATED SUPPLY OF EROSION AND SEDIMENTATION CONTROL
- 5. AVOID DISTURBANCE ACTIVITIES WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE, MINIMIZE DISTURBED AREAS, AND PROTECT DOWNGRADIENT BUFFER AREAS TO THE MAXIMUM EXTENT PRACTICABLE.
- 6. PERIMETER CONTROLS SHALL BE DOUBLED WHEN DISTURBANCE ACTIVITIES TAKE PLACE BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREA ARE DIRECTED TOWARD THE PROTECTED NATURAL RESOURCE.
- 7. PERIMETER CONTROLS SHALL BE DOUBLED AND DISTURBED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WHEN DISTURBANCE RESOURCE AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREA ARE DIRECTED TOWARD THE PROTECTED NATURAL RESOURCE.
- 8. SEDIMENT BARRIERS SHALL BE INSTALLED AT THE DOWNGRADIENT EDGE OF ANY AREA TO BE DISTURBED, ADJACENT TO ANY DRAINAGE CHANNELS WITHIN THE DISTURBED AREA. AND DOWNGRADIENT OF SOIL OR SEDIMENT STOCKPILES AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILES.
- 9. STABILIZE ANY EXPOSED SOIL WITH MULCH OR OTHER NON-ERODIBLE COVER WITHIN 7 DAYS OF THE TERMINATION OF CONSTRUCTION ACTIVITIES IN SENSITIVE AREAS, SUCH AS WITHIN 100 FEET OF PROTECTED NATURAL RESOURCES, OR WITHIN 14 TO 30 DAYS IN ALL OTHER AREAS THAT WILL NOT BE WORKED AGAIN FOR MORE THAN 7 DAYS.
- 10. STABILIZE AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT. WHICHEVER OCCURS FIRST.
- 11. PERMANENTLY STABILIZE AREAS THAT WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAVE BEEN BROUGHT TO FINAL GRADE WITHIN 7 DAYS BY SEEDING OR NON-VEGETATED TREATMENT SUCH AS ANGULAR STONE, BUILDING, COMPACTED GRAVEL DRIVE, CONCRETE, OR AN EROSION CONTROL MIX MULCH.
- a. SEEDED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WITH 90% OF THE DISTURBED AREA IS COVERED BY MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR WILLING OF THE TOPSOIL.
- b. EROSION CONTROL MIX SHALL BE CONSIDERED A PERMANENT STABILIZATION WHEN EXPOSED AREAS ARE COMPLETELY COVERED AND MIX IS EVENLY DISTRIBUTED AT A THICKNESS OF 2 INCHES ON A 3:1 SLOPE OR LESS AND 4 INCHES ON SLOPES GREATER THAN 3:1.
- c. ANGULAR STONE SHALL BE CONSIDERED A PERMANENT STABILIZATION WHEN SIZED APPROPRIATELY FOR THE USE AND PLACED IN A MANNER THAT PREVENTS SOILS MOVEMENT FROM BEHIND THE ANGULAR STONE.
- d. DITCHES, CHANNELS, AND SWALES SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN THERE IS 90% COVER OF HEALTHY VEGETATION, A WELL-GRADED ANGULAR STONE LINING, OR A NON-EROSIVE LINING. THERE SHALL BE NO EVIDENCE OF SLUMPING CHANNEL LINING, CHANNEL BANK UNDERCUTTING, OR DOWNCUTTING OF
- e. GRAVEL DRIVES SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN COMPACTION IS COMPLETE AND PROVIDED IT IS FREE OF FINE MATERIAL THAT MAY RUNOFF WITH A RAIN EVENT.

THE CHANNEL.

- 12. DITCHES, CHANNELS, AND SWALES SHALL BE CONSTRUCTED IN SECTIONS TO ENSURE GRADING, SHAPING, AND INSTALLATION OF THE PERMANENT LINING IS ACHIEVED THE SAME DAY. WHEN FINAL GRADING OR INSTALLATION OF THE PERMANENT LINING IS DELAYED DIVERSION BERMS SHALL BE USED TO DIVERT STORMWATER AWAY FROM DITCHES. CHANNELS, AND SWALES, CHECK DAMS SHALL BE INSTALLED TO SLOW THE WATER VELOCITY, AND A TEMPORARY LINING SHALL BE INSTALLED TO PREVENT SCOURING.
- 13. TEMPORARY CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION BEING ACHIEVED.

### MULCHING AND SEEDING SPECIFICATIONS

- TEMPORARY MULCH SHALL INCLUDE STRAW OR HAY, EROSION CONTROL MIX. HYDRAULIC MULCHES AND SOIL BINDERS, EROSION CONTROL BLANKETS, OR WOOD CHIPS AND BARK MULCH APPLIED AT THE FOLLOWING APPLICATION RATES.
- a. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF AT LEAST 75 POUNDS PER 1.000 SQUARE FEET AND PROVIDE A MINIMUM OF 75% COVERAGE. TWICE THE RATE SHALL BE USED FOR WINTER CONDITIONS.
- b FROSION CONTROL MIX SHALL BE APPLIED AT 2 INCHES FOR SLOPES FLATTER THAN 3:1 OR 4 INCHES FOR SLOPES GREATER THAN 3:1.
- c. PAPER MULCH SHALL BE APPLIED AT A RATE OF AT LEAST 5 POUNDS PER 1,000 SQUARE FEET OR AS DIRECTED BY THE MANUFACTURER AND CELLULOSE FIBER SHALL BE APPLIED AT A RATE OF AT LEAST 40 POUNDS PER 1,000 SQUARE FEET OR AS DIRECTED BY THE MANUFACTURE.
- d. EROSION CONTROL BLANKETS SHALL BE STAPLED PER MANUFACTURE'S SPECIFICATIONS.
- e. WOOD CHIPS AND BARK MULCH SHALL BE 3 INCHES OR MORE FOR FLAT AREAS OR ON SHORT 4:1 SLOPES.
- TEMPORARY SEEDING SHALL BE APPLIED BETWEEN APRIL 15<sup>TH</sup> AND OCTOBER 1<sup>ST</sup> AT THE FOLLOWING APPLICATION RATES AND WITHIN THE
- RECOMMENDED SEEDING DATES: a. WINTER RYE, SUCH AS AROOSTOOK RYE OR OTHER HARDY SPECIES, SHALL BE APPLIED AT A RATE OF 112 POUNDS PER ACRE BETWEEN

AUGUST 15<sup>TH</sup> AND OCTOBER 1<sup>ST</sup>

- b. OATS SHALL BE APPLIED AT A RATE OF 80 POUNDS PER ACRE BETWEEN APRIL 15<sup>TH</sup> AND JULY 1<sup>ST</sup>OR BETWEEN AUGUST 15<sup>TH</sup> AND SEPTEMBER 15<sup>TH</sup> OATS ARE BEST FOR SPRING SEEING. FALL SEEING WILL DIE OVER THE
- c ANNUAL RYE GRASS WHICH GROWS QUICKLY BUT IS OF SHORT DURATION SHALL BE APPLIED AT A RATE OF 40 POLINDS PER ACRE BETWEEN APRIL 15<sup>TH</sup> AND JULY 1<sup>ST</sup>. WITH MULCH, ANNUAL RYE GRASS

MAY BE USED THROUGHOUT THE GROWING SEASON.

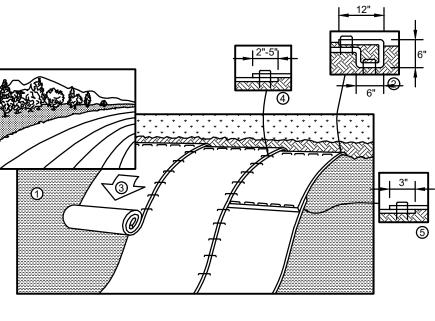
- d SUDANGRASS WHICH PROVIDES GOOD GROWTH DURING PERIODS OF HOT WEATHER, SHALL BE APPLIED AT A RATE OF 40 POUNDS PER ACRES BETWEEN MAY 15<sup>TH</sup> AND AUGUST 15<sup>TH</sup>
- e. PERENNIAL RYE GRASS. WHICH IS LONGER LASTING THAN ANNUAL RYE GRASS. SHALL BE APPLIED AT A RATE OF 40 POUNDS PER ACRES BETWEEN AUGUST 15<sup>TH</sup> AND SEPTEMBER 15<sup>TH</sup>, WITH MUCH, PERENNIAL RYE GRASS MAY BE USED THROUGHOUT THE GROWING SEASON.
- PERMANENT SEEDING SHALL BE A LOW GROWING SEED MIX APPROPRIATE FOR THE SOIL TYPE, MOISTURE CONTENT, SUN EXPOSURE, AND LIMITED FREQUENCY MOWING AT AN APPLICATION RATE IN ACCORDANCE WITH THE SUPPLIER'S GUIDELINES.
- 4. PERMANENT SEEDING SHALL BE APPLIED AT LEAST 45 DAYS PRIOR TO THE FIRST KILLING FROST, OR AS A DORMANT SEEDING BEFORE SNOWFALL.
- 5. DORMANT SEEDING SHALL BE APPLIED AT DOUBLE THE RATE OF NORMAL SEEDING BETWEEN THE FIRST KILLING FROST AND BEFORE SNOWFALL SFEDING SHALL BE COVERED WITH MULCH THAT IS WELL ANCHORED AND FULLY COVERING THE GROUND SURFACE.
- 6. FERTILIZER AND LIME APPLICATION RATES SHALL FOLLOW THE GUIDELINES IDENTIFIED BELOW UNLESS SITE SPECIFIC SOIL TESTS IDENTIFY THE NEED FOR ALTERNATIVE FERTILIZER AND LIME APPLICATION RATES.
- a. FERTILIZER SHALL BE APPLIED TO UPLAND AREAS PRIOR TO SEEDING AT A RATE OF 800 POUNDS PER ACRE USING 10-20-20 (N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O) OR
- b. GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE.

### WINTERIZATION SCHEDULE

- 1. ALL VEGETATED SLOPES OF 15% OR LESS SHALL HAVE 90% GRASS COVER BY NOVEMBER 1<sup>ST</sup> OF EACH YEAR OR SHALL BE SEEDED WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET, MULCHED WITH HAY AT 75 POUNDS PER 1,000 SQUARE FEET, AND ANCHORED WITH NETTING BY OCTOBER 1<sup>ST</sup> OF EACH YEAR. ALTERNATIVELY, THE AREA SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET, EROSION CONTROL MIX, OR WITH HAY AT A RATE OF AT LEAST 150 POUNDS PER 1,000 SQUARE FEET BY NOVEMBER 1<sup>ST</sup>.
- 2. ALL VEGETATED SLOPES OF GREATER THAN 15% SHALL BE SEEDED AND MULCHED BY SEPTEMBER 1ST OF EACH YEAR, EXPOSED SOIL MAY BE SEEDED WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1.000 SQUARE FEET AND PROTECTED WITH EROSION CONTROL BLANKETS IF 90% GRASS COVER IS NOT ESTABLISHED BY OCTOBER 1<sup>ST</sup> OF EACH YEAR.
- 3. ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE STABILIZED BY SEPTEMBER 1<sup>ST</sup> OF EACH YEAR. DITCHES AND CHANNELS SHALL BE LINED WITH ANGULAR STONE IE SUFFICIENT GRASS ESTABLISHMENT (75% COVER) HAD NOT OCCURRED BY NOVEMBER 15<sup>TH</sup> OF EACH YEAR.
- 4. STOCKPILES SHALL BE MULCHED WITH HAY AT A RATE OF AT LEAST 150 POUNDS PER 1.000 SQUARE FEET OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX BY NOVEMBER 1ST OF EACH YEAR. STOCKPILES SHALL NOT BE LEFT OVERWINTER WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.
- 5. ADDITIONAL STABILIZATION MEASURES SHALL BE PROVIDED BY DECEMBER 1<sup>ST</sup> FOR DISTURBED AREAS WHEN THE GROWTH OF VEGETATION FAILS TO BE AT LEAST 3 INCHES TALL OR AT LEAST 75% OF THE DISTURBED AREA IS COVERED BY VEGETATION.

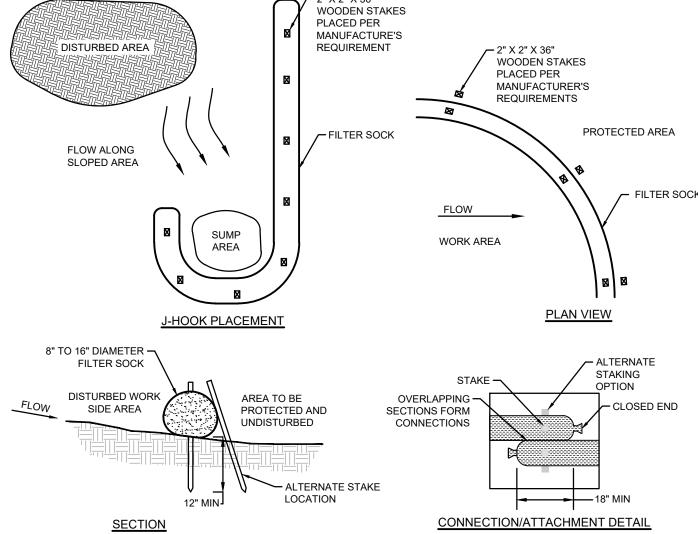
### WINTER CONSTRUCTION

- 1. WINTER CONSTRUCTION IS ANY ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1<sup>ST</sup> THROUGH APRIL 15<sup>TH</sup> OF EACH YEAR.
- 2. A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED DOWNGRADIENT OF DISTURBED AREAS LOCATED WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE.
- 3. LIMIT DISTURBED AREAS TO NO MORE THAN 1 ACRE AT ONE TIME OR NO LARGER THAN AN AREA THAT CAN BE STABILIZED IN A DAY
- 4. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE STABILIZED BY THE END OF EACH CONSTRUCTION DAY.
- 5. MULCH SHALL BE APPLIED AT A RATE OF AT LEAST 150 POUNDS PER 1,000
- 6. MULCH NETTING SHALL BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKET OR EROSION CONTROL MIX IS APPLIED ON THESE SLOPES.
- 7. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW.

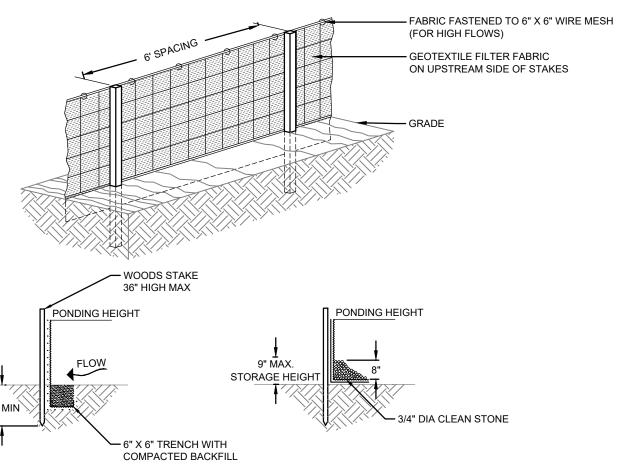


- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACK FILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO PREPARED SOIL AND FOLD REMAINING 12" PORTION OF THE BLANKET BACK OVER SEED AND SOIL. SECURE BLANKET OVER SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS DOWN ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET
- 6. EROSION CONTROL BLANKETS SHALL BE INSTALLED FOLLOWING MANUFACTURERS SPECIFICATIONS.

# EROSION CONTROL BLANKET DETAIL FOR SLOPE INSTALLATION



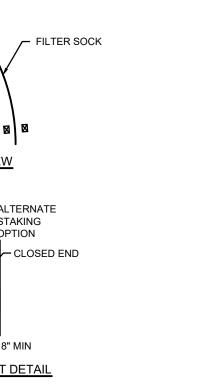
- 1. SOCK SHALL BE MESH OR GEOSYNTHETIC FABRIC TUBE.
- 2. SOCK FILL MATERIAL SHALL BE EROSION CONTROL MIX OR OTHER FINELY SHREDDED ORGANIC MATERIAL SUCH AS COCONUT FIBER OR STRAW.



SILT FENCE

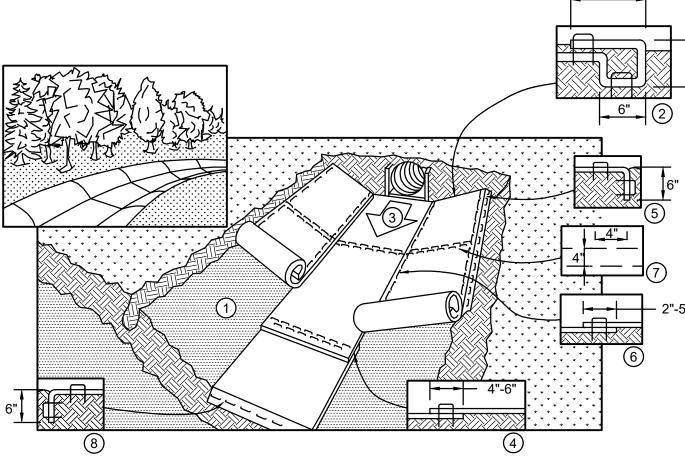
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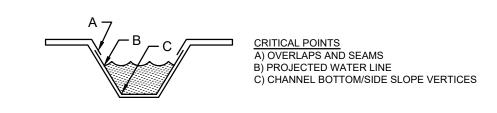


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SUBSTATION SUBBASE PROFILE



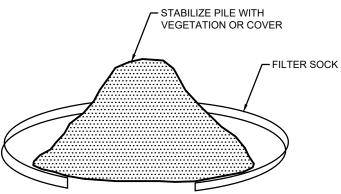
- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- 2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AFTER STAPLING. APPLY SEED TO SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND SOIL. SECURE BLANKET OVER SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- 4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO
- 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET SIZE) AND STAPLED.
- 7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30' TO 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4"
- 8. THE TERMINAL END OF BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 9. EROSION CONTROL BLANKETS SHALL BE INSTALLED FOLLOWING MANUFACTURERS SPECIFICATIONS.



- \* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- \*\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

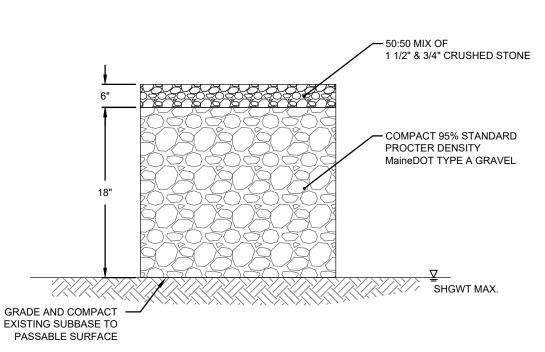
### EROSION CONTROL BLANKET DETAIL FOR CHANNEL INSTALLATION NOT TO SCALE

CONTROL MIX



- 1. STOCKPILES MUST BE PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS.
- 2. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.

# SOIL STOCKPILE CONTROL



1. EROSION CONTROL MIX SHALL BE AN ORGANIC SUBSTRATE THAT MAY CONTAIN FOREST RESIDUES, BARKS, STUMP GRINDINGS, AND AGED WOOD WASTE.

12" MIN

ON UPGRADIENT SIDE

EXISTING GRADE

- 2. EROSION CONTROL MIX SHALL BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, MATERIAL TOXIC TO PLANT GROWTH, AND REPROCESSED WOOD PRODUCTS.
- 3. EROSION CONTROL MIX MAY CONTAIN ROCK LESS THAN 4 INCHES IN DIAMETER AND SHALL BE WELL GRADED MATERIAL CONFORMING TO THE FOLLOWING:

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- pH 5.0 TO 8.0 6 INCH SIEVE - 100% PASSING
- 3/4 INCH SIEVE 75% TO 80% PASSING • SOLUBLE SALT CONTENT - <4.0 mmhos/cm

• ORGANIC MATTER - 20% TO 100%, DRY WEIGHT BASIS **EROSION CONTROL MIX BERM** 

143-67639-2100

MATTHEW W

MOYEN

No. 18213

Bar Measures 1 inch, otherwise drawing not to scale

