

**Appendix 5-A: Drawing Modifications for the Preliminary  
SWPPP: Project Development Area**

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**STANDARD NOTES FOR NON RESIDENTIAL SEWAGE:**

1. THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:
  - DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS, INTERMEDIATE SIZED SEWAGE FACILITIES\*
  - RECOMMENDED STANDARDS FOR SEWAGE TREATMENT WORKS, (TEN STATES)\*
  - NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY DEPARTMENT OF HEALTH POLICIES, PROCEDURES AND STANDARDS\*
  - DUTCHESS COUNTY DEPARTMENT OF HEALTH SANITARY CODE, ARTICLE XI AND ARTICLE XII.\*
  - DUTCHESS COUNTY DEPARTMENT OF HEALTH CERTIFICATE OF APPROVAL LETTER.\*
2. THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL, AND TREATMENT AND WATER SUPPLY FACILITIES.
3. UPON COMPLETION OF THE FACILITIES, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE TO THE DUTCHESS COUNTY HEALTH DEPARTMENT BY THE NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SUPERVISING CONSTRUCTION. NO PART OF THE FACILITIES SHALL BE PLACED INTO SERVICE UNTIL ACCEPTED BY THE DUTCHESS COUNTY HEALTH DEPARTMENT.
4. APPROVAL OF ANY PLAN(S) OR AMENDMENT THEREOF SHALL BE VALID FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLAN(S) SHALL BE RE-SUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION.
5. ALL WELLS AND SDS EXISTING OR APPROVED WITHIN 200 FEET OF THE PROPOSED WELLS AND SDS ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE SDS AND WELL.
6. NO FOOTING OR ROOF DRAINS SHALL BE DISCHARGED INTO THE SEWAGE TREATMENT SYSTEM OR WITHIN 25 FEET OF ANY WELL.
7. THERE SHALL BE NO VEHICULAR TRAFFIC OVER THE SEWAGE DISPOSAL SYSTEM. PRIOR TO CONSTRUCTION, THE AREA OF THE SYSTEM SHALL BE STAKED OUT AND FENCED OFF.
8. SEWAGE DISPOSAL SYSTEMS SHALL NOT BE INSTALLED IN VET OR FROZEN SOIL.
9. ALL REQUIRED EROSION & SEDIMENT CONTROL AND STORM WATER POLLUTION PREVENTION WATER QUALITY & QUANTITY CONTROL STRUCTURES, PERMANENT AND TEMPORARY, ARE SHOWN ON THE PLANS.
10. THE DCDM SHALL BE NOTIFIED PRIOR TO THE BACKFILLING OF ANY COMPLETED SDS SO THAT A FINAL INSPECTION MAY BE PERFORMED.
11. THE DCDM SHALL BE NOTIFIED SIXTY DAYS PRIOR TO ANY CHANGE IN USE. USE CHANGES MAY REQUIRE RE-APPROVAL BY THE DCDM.
12. THE UNDERSIGNED OWNERS OF THE PROPERTY HEREOF STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

**STANDARD NOTES FOR WATER SYSTEMS:**

1. THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:
  - RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATES)\*
  - RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH\*
  - NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY DEPARTMENT OF HEALTH POLICIES, PROCEDURES AND STANDARDS\*
  - DUTCHESS COUNTY DEPARTMENT OF HEALTH SANITARY CODE, ARTICLE XI AND ARTICLE V.\*
  - DUTCHESS COUNTY DEPARTMENT OF HEALTH CERTIFICATE OF APPROVAL LETTER.\*
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**SEPTIC TANK DESIGN:**  
 AVERAGE DAILY FLOW = 400 GPD  
 TANK SIZE = 1.5 X FLOW = 1.5 X 400 GPD = 600 GAL.  
 USE 1,000 GAL SEPTIC TANK.

**WASTEWATER GENERATION:**  
 EMPLOYEES: 30  
 HYDRAULIC LOADING RATE: 15 GPD PER EMPLOYEE  
 SHOWERS HYDRAULIC LOADING RATE: 25 GPD  
 DESIGN FLOW: (30 EMPLOYEES X 15 GPD/EMPLOYEE) + (2 X 25 GPD/SHOWER) = 500 GPD  
 NYSDEC ALLOWS FOR A 20% REDUCTION OF FLOW WHERE WATER CONSERVATION FIXTURES ARE USED.  
 WATER CONSERVATION = 500 GPD X 0.8 = 400 GPD

**SOIL RESTORATION NOTES:**

- IN AREAS WHERE SOIL DISTURBANCE HAS OCCURRED OUTSIDE OF BUILDINGS AND PAVEMENT AREAS, THE DISTURBED SUB-SOILS SHALL BE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOILS RESTORATION STEPS APPLIED:
- 1) APPLY THREE INCHES OF COMPOST OVER SOIL. COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF MARLE NEEDED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.
  - 2) TILL COMPOST INTO THE SUBSOIL TO A DEPTH OF AT LEAST 12-INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC OR TILLER, WORKING AND CIRCULATING AIR AND COMPOST INTO SUB-SOILS.
  - 3) ROCK-PICK UNTIL UNLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEARED OFF THE SITE.
  - 4) APPLY TOPSOIL TO A DEPTH OF SIX INCHES.

PROJECT NAME  
 CRICKET VALLEY ENERGY

DEVELOPER  
 CRICKET VALLEY ENERGY CENTER, LLC.

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 North County Office: 100 One Street, Oneonta, New York 13828, Phone: (518) 812-0013

REV.	DATE	REVISION PER TOWN & CLIENT COMMENTS	DESCRIPTION
1	04/24/12	REVISION PER TOWN & CLIENT COMMENTS	

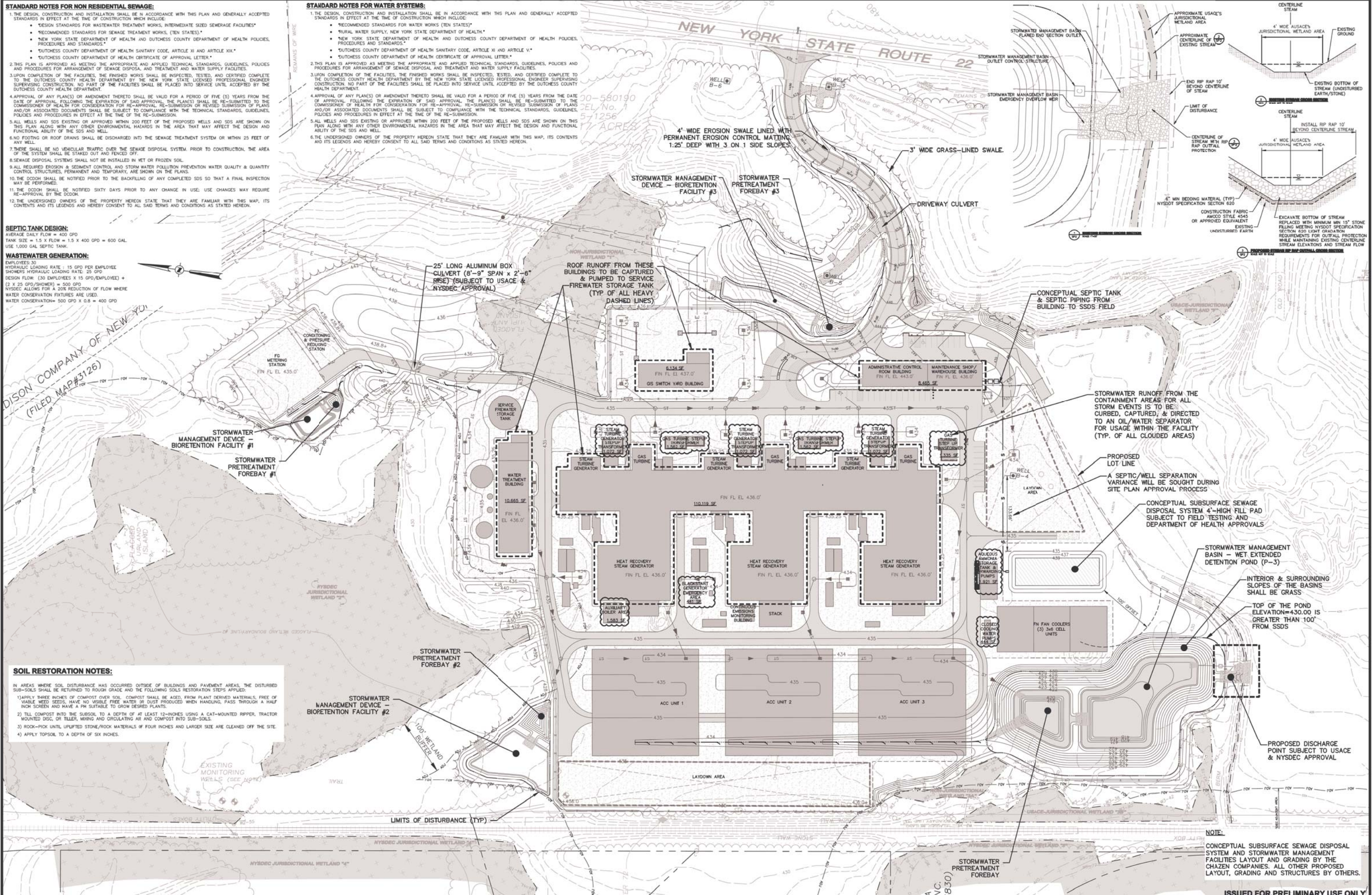
CRICKET VALLEY ENERGY

**CONCEPTUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM AND STORMWATER MANAGEMENT PLAN**

TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK

ISSUED FOR PRELIMINARY USE ONLY

Drawn: MMF checked: CL  
 Date: 7/16/10 scale: 1"=60'  
 Project No.: 81001.00  
 Sheet No.: SP2



**NOTE:**  
 CONCEPTUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM AND STORMWATER MANAGEMENT FACILITIES LAYOUT AND GRADING BY THE CHAZEN COMPANIES. ALL OTHER PROPOSED LAYOUT, GRADING AND STRUCTURES BY OTHERS.

**SURVEY REFERENCE:**

1. BOUNDARY AND TOPOGRAPHIC SURVEY TAKEN FROM "SURVEY OF PROPERTY PREPARED FOR CRICKET VALLEY ENERGY CENTER, LLC" PREPARED BY ZAROOK & ASSOCIATES, LLC SURVEY DATED JUNE 3, 2009, LAST REVISED OCTOBER 11, 2011.

**GP-0-10-00 COMPLIANCE NOTES:**

**PRELIMINARY EROSION AND SEDIMENT CONTROL NOTES:**

1. SITE CONSTRUCTION WILL NEED TO PROCEED WITH GREATER THAN 5-ACRES OF SOIL DISTURBED AT A GIVEN TIME AS THE DEVELOPMENT PLAN IS REFINED DURING THE SITE PLAN REVIEW AND PERMITTING PROCESS. A WAIVER TO DISTURB GREATER THAN 5-ACRES WILL BE REQUESTED FROM THE NYSDEC.
2. THE PROJECT SHALL NOT DISTURB 20 OR MORE ACRES OF LAND AT ONE TIME FOLLOWING AUGUST 1, 2011, AND SHALL NOT DISTURB MORE THAN 10 OR MORE ACRES OF LAND AT ONE TIME FOLLOWING FEBRUARY 2, 2014. SHOULD THE PROJECT DISTURB MORE THAN THE SPECIFIED AREAS DURING THE TIME PERIODS LISTED HEREIN, PROJECT SPONSOR SHALL SAMPLE STORM WATER DISCHARGES AND REPORT LEVELS OF TURBIDITY IN THE DISCHARGES IN ACCORDANCE WITH REQUIREMENTS AND METHODS TO BE ESTABLISHED BY THE ENVIRONMENTAL PROTECTION AGENCY.
3. BECAUSE THIS PROJECT WILL INVOLVE THE DISTURBANCE OF GREATER THAN FIVE ACRES OF SOIL AT ANY ONE TIME, SITE INSPECTIONS SHALL OCCUR AT AN INTERVAL OF AT LEAST TWICE EVERY SEVEN CALENDAR DAYS, WITH THE INSPECTORING SEPARATED BY A MINIMUM OF AT LEAST TWO FULL CALENDAR DAYS.

**PRELIMINARY EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCING SCHEDULE**

**PRE-DEMOLITION:**

1. SCHEDULE A PRE-CONSTRUCTION MEETING WHICH SHALL INCLUDE THE TOWN OF DOVER AUTHORIZED REPRESENTATIVE, OPESC, CONTRACTOR AND ANY INVOLVED SUBCONTRACTORS TO DISCUSS RESPONSIBILITIES AS THEY RELATE TO THE IMPLEMENTATION OF THE SWPPP.
2. DELINEATE THE STAGING AREAS TO BE USED FOR DEMOLITION ACTIVITIES. INSTALL CONSTRUCTION FENCE AS NECESSARY.
3. ESTABLISH THE STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET.
4. INSTALL SILT FENCE BARRIERS AS SHOWN ON THIS SHEET.
5. INSTALL ACCESS DRIVE TO ADJOINING PROPERTY TO SOUTH.
6. PRIOR TO COMMENCEMENT OF DEMOLITION, CONTACT OPESC AND TOWN OF DOVER AUTHORIZED REPRESENTATIVE TO CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED. DO NOT PROCEED WITH DEMOLITION ACTIVITIES UNTIL OPESC CERTIFIES THE INSTALLATION OF THE EROSION AND SEDIMENT CONTROL MEASURES.

**PRIOR TO GRADING ACTIVITIES:**

1. SCHEDULE A "PRIOR TO GRADING ACTIVITIES" MEETING WHICH SHALL INCLUDE THE TOWN OF DOVER AUTHORIZED REPRESENTATIVE, OPESC, CONTRACTOR AND ANY INVOLVED SUBCONTRACTORS TO DISCUSS RESPONSIBILITIES AS THEY RELATE TO THE IMPLEMENTATION OF THE SWPPP.
2. DELINEATE LIMITS OF WORK DISTURBANCE FOR PROJECT.
3. DELINEATE THE STAGING AREAS TO BE USED FOR SITE. INSTALL CONSTRUCTION FENCE AS NECESSARY.
4. DELINEATE SOIL STOCKPILE AREA AND ESTABLISH SILT FENCE BARRIER AROUND THE PERIMETER.
5. REPAIR SILT FENCE AND STABILIZED CONSTRUCTION AS DEMED NECESSARY. INSTALL ADDITIONAL SILT FENCE FOR CONSTRUCTION OF RIP-RAP SEDIMENT TRAPS.
6. INITIATE CONSTRUCTION TEMPORARY RIP-RAP SEDIMENT TRAP 1 AND ASSOCIATED DIVERSION SWALE. PROVIDE TEMPORARY SEEDING OF DIVERSION SWALE AND INSTALL CHECK DAMS.
7. INITIATE CONSTRUCTION TEMPORARY RIP-RAP SEDIMENT TRAP 2 AND ASSOCIATED DIVERSION SWALE. PROVIDE TEMPORARY SEEDING OF DIVERSION SWALE AND INSTALL CHECK DAMS.
8. INITIATE CONSTRUCTION TEMPORARY RIP-RAP SEDIMENT TRAP 3 AND ASSOCIATED DIVERSION SWALES. PROVIDE TEMPORARY SEEDING OF DIVERSION SWALE AND INSTALL CHECK DAMS.
9. INITIATE CONSTRUCTION TEMPORARY RIP-RAP SEDIMENT TRAP 4 AND ASSOCIATED DIVERSION SWALE. PROVIDE TEMPORARY SEEDING OF DIVERSION SWALE AND INSTALL CHECK DAMS.
10. PRIOR TO CONSTRUCTION OF TEMPORARY RIP-RAP SEDIMENT TRAP 5 AND ASSOCIATED DIVERSION SWALES, CONTRACTOR SHALL TRACKS THE PORTION OF ACCESS DRIVE SHOWN UP TO THE SUBBASE ELEVATIONS FOR ACCESS TO THE NORTHERN PORTION OF THE SITE. INSTALL CHECKDAM UPSTREAM OF CULVERT AND DOWNSTREAM OF CULVERT AND RESTORE SIDE SLOPES AND AREAS DISTURBED DURING INSTALLATION. ONCE INSTALLATION OF THE CULVERT AND CHECKDAMS IS COMPLETE, THE CONTRACTOR SHALL INSTALL RIP-RAP SEDIMENT TRAP 5 AND ASSOCIATED DIVERSION SWALES PRIOR TO CLEARING AND GRADING IN THAT AREA. PROVIDE TEMPORARY SEEDING OF DIVERSION SWALE AND INSTALL CHECK DAMS.
11. EXCESS TOPSOIL / MATERIAL TO BE STOCKPILED WITHIN THE AREA OF DEDICATED FOR SAID ACTIVITIES.
12. PRIOR TO COMMENCEMENT OF SITE GRADING ACTIVITIES, CONTACT OPESC AND TOWN OF DOVER AUTHORIZED REPRESENTATIVE TO CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES HAVE BEEN ADEQUATELY INSTALLED, CONSTRUCTED, AND IMPLEMENTED. DO NOT PROCEED WITH GRADING ACTIVITIES UNTIL OPESC CERTIFIES THE INSTALLATION OF THE EROSION AND SEDIMENT CONTROL MEASURES.

**MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:**

**PERMANENT AND TEMPORARY VEGETATION:**

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

**STABILIZED CONSTRUCTION ENTRANCE:**

INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. REPAIR PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

**SILT FENCE:**

INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/2 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

**SOIL STOCKPILE:**

INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

**DUST CONTROL:**

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

**CHECK DAM:**

INSPECT CHECK DAMS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINE OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF ENGINEER.

**EROSION CONTROL BLANKET:**

INSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

**TEMPORARY SWALE:**

INSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY.

**RIP-RAP OUTLET SEDIMENT TRAP:**

INSPECT ALL RIP-RAP OUTLET SEDIMENT TRAPS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH OF THE TRAP.

**STORM DRAIN INLET PROTECTION:**

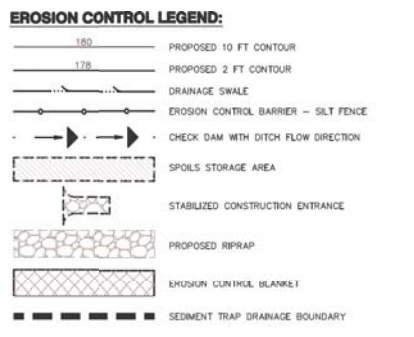
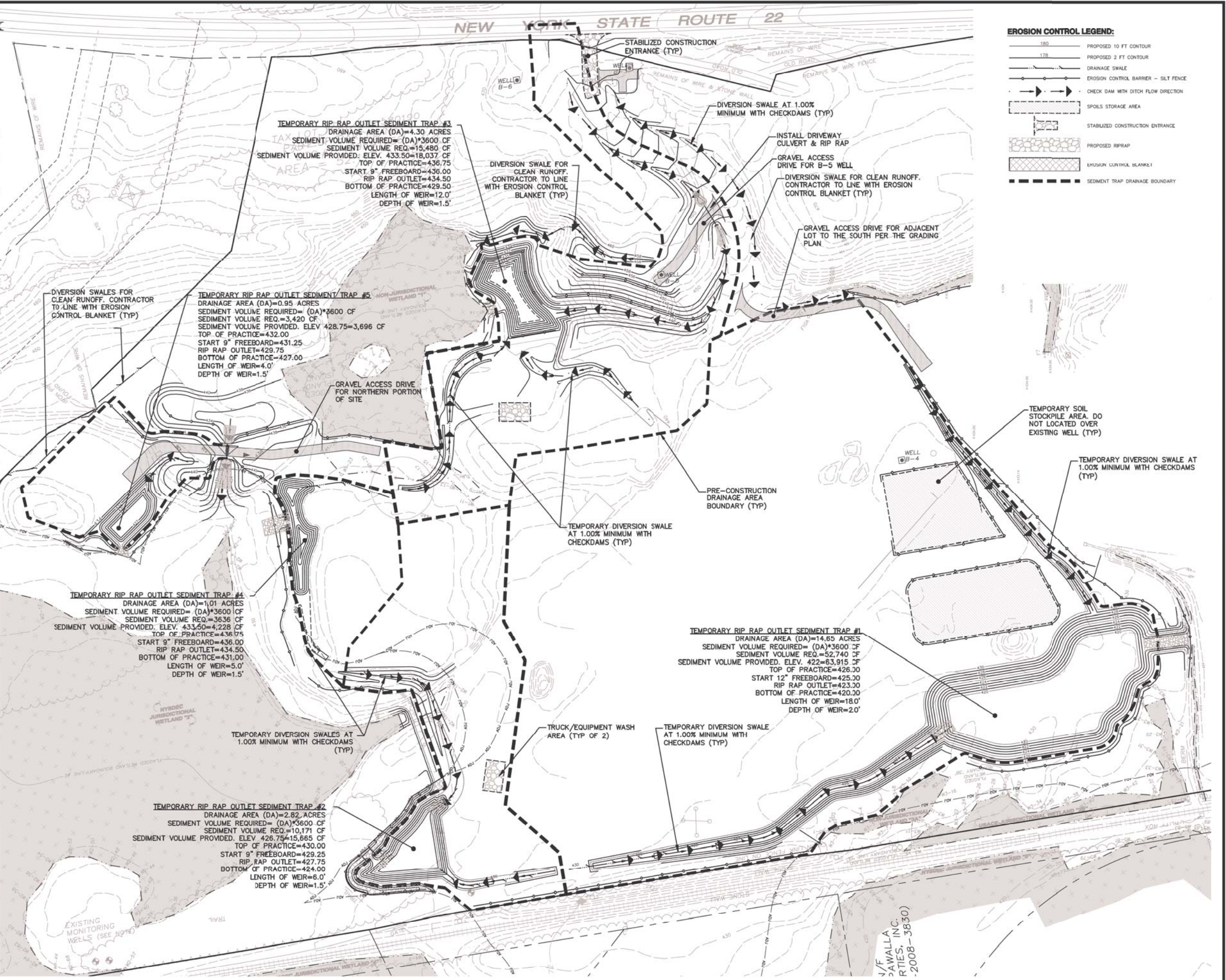
INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

**DEWATERING PITS:**

(IF REQUIRED) - INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAN INLET AND DISCHARGE PIPES OF DEWATERING PITS. IF FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DEMOUNTED AND CONSTRUCT NEW PITS AS NEEDED.

**TRUCK/EQUIPMENT WASH AREAS:**

TRUCK WASH AREAS TO FULLY CONTAINED. ALL WASHED WATER TO PUMPED AND REMOVED FROM SITE TO AN APPROVED FACILITY. EQUIPMENT TO BE WASHED DOWN PRIOR TO GRADING ACTIVITIES FOR TEMPORARY PARKING AND ALSO PRIOR TO LANDSCAPE RESTORATION.



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Planners  
Environmental Scientists  
Landscape Architects

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REV.	DATE	DESCRIPTION
2	04/24/12	REVISED PER TOWN & CLIENT COMMENTS
1	02/24/12	UPDATE FOR PERMITS

**CRICKET VALLEY ENERGY**

**PRE - CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN**

TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK

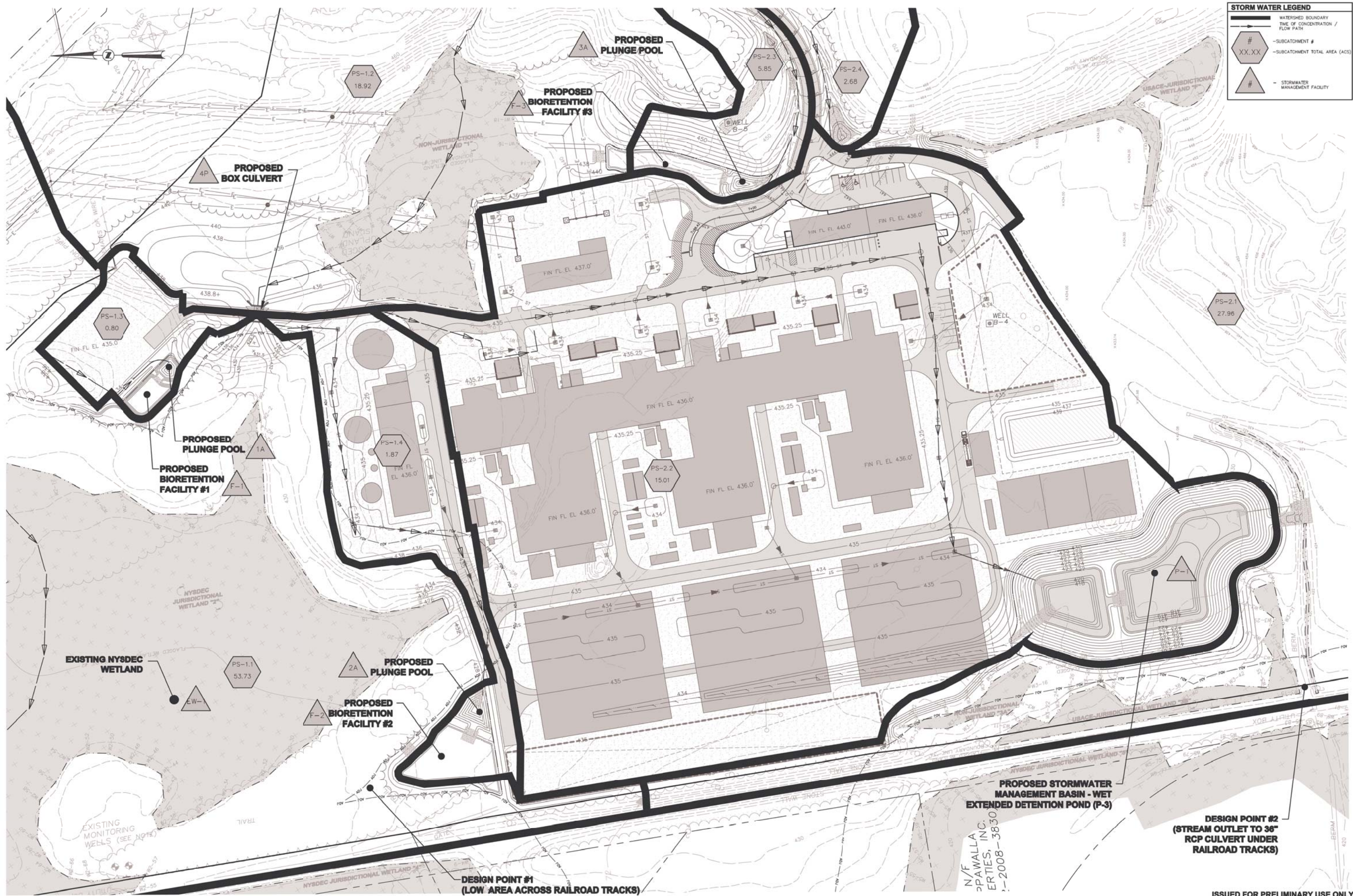
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17/16/12	1" = 60'
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Sheet No.	SP1

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Date Printed: Apr 26, 2012, 1:46pm

**STORM WATER LEGEND**

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION / FLOW PATH
- XX.XX - SUBCATCHMENT #
- XX.XX - SUBCATCHMENT TOTAL AREA (ACS)
- # - STORMWATER MANAGEMENT FACILITY



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REV.	DATE	DESCRIPTION

CRICKET VALLEY ENERGY

**ENLARGED POST-DEVELOPMENT WATERSHED DELINEATION MAP**

TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK

Drawn: MMF  
Checked: CL  
Date: 7/16/10  
Scale: 1" = 50'  
Project No: 81001.00  
Sheet No: FIG. 5B

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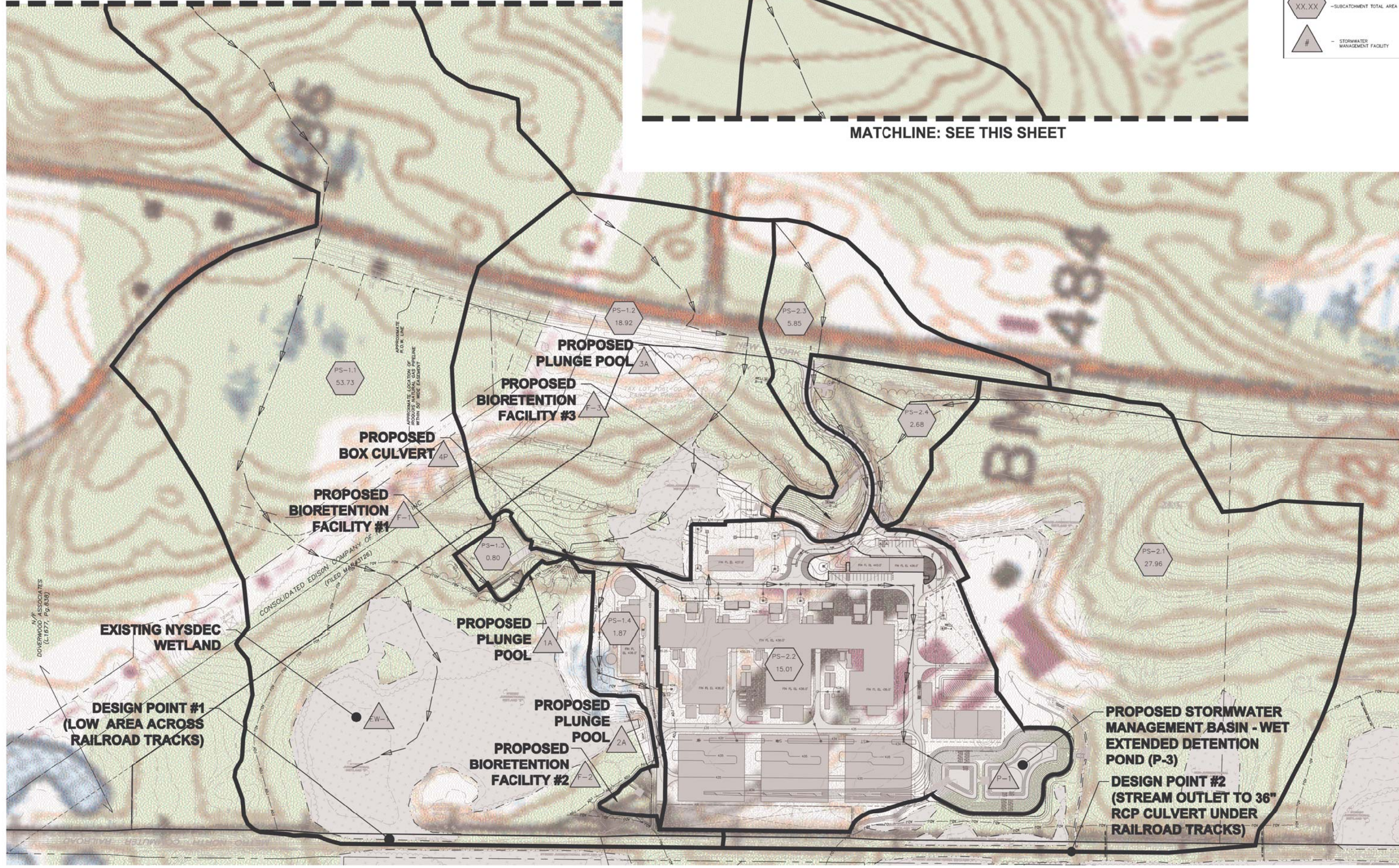
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 User: chazen  
 Date: 7/16/10  
 Scale: 1" = 50'

**STORM WATER LEGEND**

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION / FLOW PATH
- Subcatchment # (XX.XX)
- Subcatchment Total Area (ACS)
- Stormwater Management Facility

MATCHLINE: SEE THIS SHEET

MATCHLINE: SEE THIS SHEET



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**CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., P.C.**

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REV.	DATE	DESCRIPTION
1	02/24/12	UPDATE FOR FEDS

**CRICKET VALLEY ENERGY**

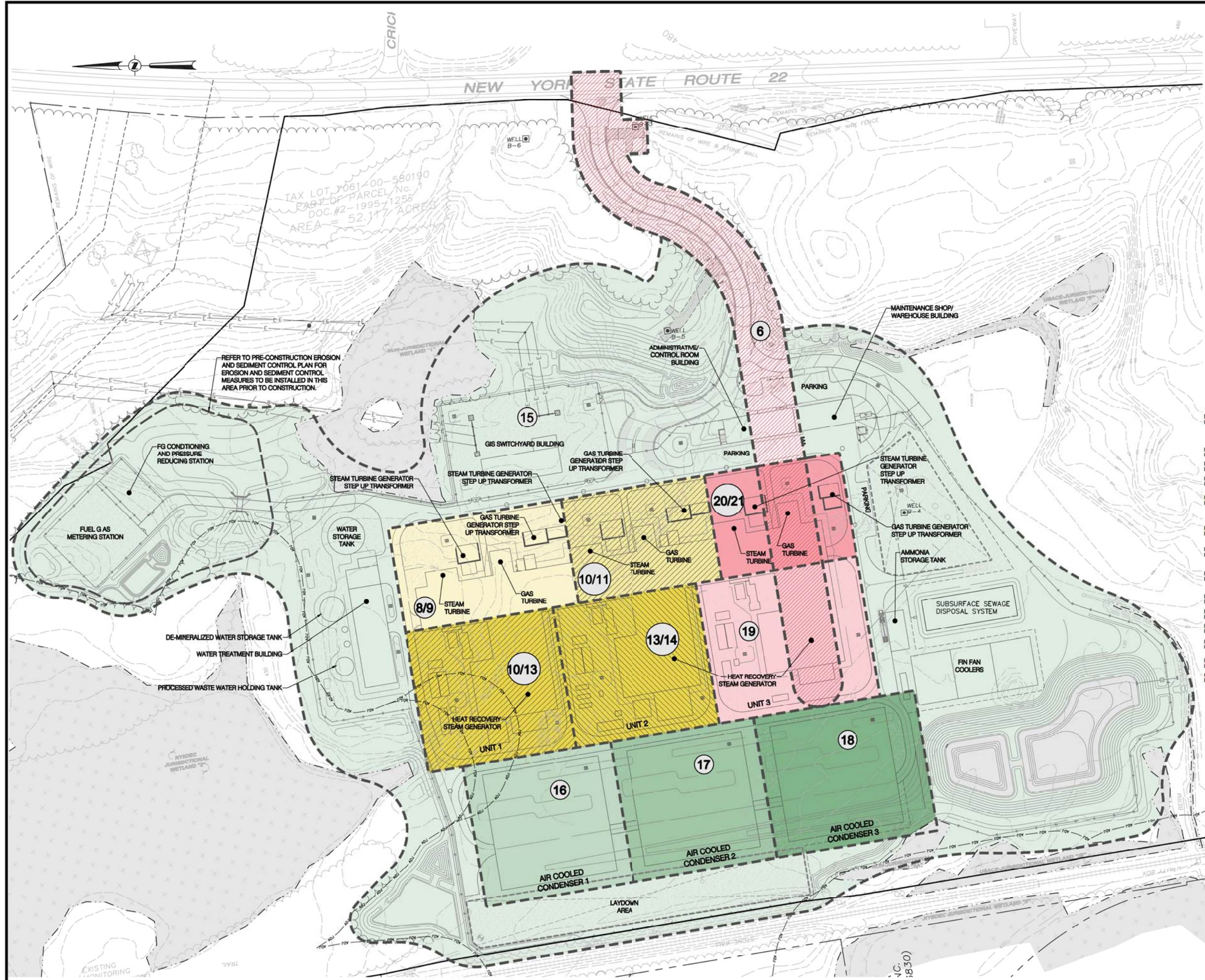
**OVERALL POST-DEVELOPMENT WATERSHED DELINEATION MAP**

TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK

Drawn	Checked
MMF	CL
Date	Scale
7/16/10	1"=100'
Project No.	
81001.00	
Sheet No.	
FIG. 5A	

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Small text at the bottom left corner, likely containing drawing file names and dates.



- GENERAL NOTES:**
1. THE PROJECT'S CONSTRUCTION PERIOD IS EXPECTED TO BE APPROXIMATELY 36 MONTHS. DURING THE CONSTRUCTION PERIOD NUMEROUS TYPES OF CONSTRUCTION ACTIVITY WILL OCCUR AT THE PROJECT SITE. THE FOLLOWING GENERAL SEQUENCE WILL PROCEED AS FOLLOWS:
  2. SITE CONSTRUCTION WILL NEED TO PROCEED WITH GREATER THAN 5-ACRES OF SOIL DISTURBED AT A GIVEN TIME. AS THE DEVELOPMENT PLAN IS REFINED DURING THE SITE PLAN REVIEW AND PERMITTING PROCESS, A WAIVER TO DISTURB GREATER THAN 5-ACRES OF SOIL WILL BE REQUESTED FROM THE NYSDEC.
  3. THE PROJECT SHALL NOT DISTURB 20 OR MORE ACRES OF LAND AT ONE TIME FOLLOWING AUGUST 1, 2011, AND SHALL NOT DISTURB MORE THAN 10 OR MORE ACRES OF LAND AT ONE TIME FOLLOWING FEBRUARY 2, 2014. SHOULD THE PROJECT DISTURB MORE THAN THE SPECIFIED AREAS DURING THE TIME PERIODS LISTED HEREIN, PROJECT SPONSOR SHALL NOTIFY NYSDEC OF WATER DISCHARGES AND REPORT LEVELS OF TURBIDITY IN THE DISCHARGES IN ACCORDANCE WITH REQUIREMENTS AND METHODS TO BE ESTABLISHED BY THE ENVIRONMENTAL PROTECTION AGENCY.
  4. BECAUSE THIS PROJECT WILL INVOLVE THE DISTURBANCE OF GREATER THAN FIVE ACRES OF SOIL AT ANY ONE TIME, SITE INSPECTIONS SHALL OCCUR AT AN INTERVAL OF AT LEAST TWICE EVERY SEVEN CALENDAR DAYS, WITH THE INSPECTIONS SEPARATED BY A MINIMUM OF AT LEAST TWO FULL CALENDAR DAYS.
  5. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING OTHER LAND DISTURBANCES AND WOULD NOT BE REMOVED UNTIL DISTURBED LAND AREAS ARE STABILIZED. PLEASE REFER TO EROSION AND SEDIMENT CONTROL PLAN FOR MORE INFORMATION.
- BELOW ARE DESCRIPTIONS OF ADDITIONAL MEASURES NOT OUTLINED ON SHEET SP1 THAT WOULD OR MAY BE USED DURING THE CONSTRUCTION PERIOD OF THE PROJECT:
- **PROTECTION OF TREES/MATURE VEGETATION** - NATURAL VEGETATION WOULD BE PRESERVED WHENEVER POSSIBLE IN ACCORDANCE WITH THE SITE CLEARING AND GRUBBING PLAN. PRESERVING NATURAL AND MATURE VEGETATION WOULD PROVIDE AESTHETIC BUFFER, PRESERVE HABITAT, AND REDUCE SOIL EROSION. WHEN PRESERVING VEGETATION, FENCES WOULD BE INSTALLED TO PREVENT EQUIPMENT FROM DAMAGING AREAS DESIGNATED FOR PRESERVATION INCLUDING THE ESTABLISHED WETLANDS.
  - **VEGETATED SWALES** - DURING THE EARLY PHASES OF CONSTRUCTION, SURFACE RUNOFF THAT IS RELATIVELY CLEAN AND FREE OF SEDIMENT WOULD BE DIVERTED OR OTHERWISE PREVENTED FROM FLOWING THROUGH AREAS OF CONSTRUCTION ACTIVITY ON THE PROJECT PARCEL VIA A SYSTEM OF TEMPORARY SWALES. THE SWALES WOULD ROUTE FLOW TO TEMPORARY HIGH-BEAR SEDIMENT TRAPS. DURING THE REMAINDER OF THE CONSTRUCTION PERIOD, AS WELL AS DURING THE OPERATIONS PHASE, AREAS OUTSIDE THE BUILDINGS AND PAVEMENT WOULD CONTINUE TO UTILIZE VEGETATED SWALES IN PREFERENCE TO A PIPED COLLECTION SYSTEM.
  - **INLET PROTECTION** - STONE OR SILT FENCE WOULD BE USED TO PREVENT SEDIMENT INFLOW INTO CATCH BASINS DURING THE CONSTRUCTION PROCESS.
  - **MULCHING** - MULCHING IS THE PLACEMENT OF MATERIAL, INCLUDING BUT NOT LIMITED TO HAY, GRASS, WOODCHIPS, STRAW, AND GRAVEL, ON THE SOIL SURFACE TO COVER AND HOLD IN PLACE DISTURBED SOILS. THIS IS COMPLEMENTARY TO SEEDING PRACTICES.
  - **GEOTEXTILES** - GEOTEXTILES ARE POROUS FABRICS, CONSTRUCTION FABRICS, OR SIMPLY FABRICS. THEY ARE USED FOR FILTRATION, REINFORCEMENT, MATERIAL SEPARATION, MATTINGS, DRAINAGE APPLICATIONS AND EROSION CONTROL FOR SEDIMENT AND EROSION CONTROL APPLICATIONS. THEY ARE MOST USED AS MATTINGS TO STABILIZE FLOW IN CHANNELS AND SWALES.
  - **TEMPORARY SEEDING** - PLANTING OF FAST GROWING GRASSES PROVIDES RAPID STABILIZATION OF DISTURBED SURFACES THAT WOULD EXPERIENCE FURTHER DISTURBANCE OR CONSTRUCTION ACTIVITY AT A LATTER TIME. TEMPORARY SEEDING SURFACES WOULD HAVE RESISTANCE TO STORMWATER RUNOFF AND/OR WIND EROSION. MAINTENANCE SHOULD BE PERFORMED TO ASSURE CONTINUED STABILIZATION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES USED DURING CONSTRUCTION SHOULD COMPLY WITH SPECIFICATIONS CONTAINED IN THE NEW YORK STATE EROSION & SEDIMENT CONTROL MANUAL.
- DESCRIPTIONS OF PRELIMINARY CONSTRUCTION PHASING:**
1. DEMOLITION OF EXISTING STRUCTURES AND FOUNDATIONS ON THE SITE. INSTALLATION OF ACCESS DRIVE TO PARCELS TO NORTH. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION AS IDENTIFIED ON SHEET SP2.
  2. CLEARING AND GRUBBING OF THE SITE IN PREPARATION FOR THE CONSTRUCTION EFFORT TO FOLLOW. INSTALLATION OF CONSTRUCTION OFFICES AND TEMPORARY FACILITIES. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CLEARING AND GRUBBING ACTIVITIES AS IDENTIFIED ON SHEET SP2.
  3. ROUGH GRADING AND ROCK REMOVAL FOR POWER BLOCK FOUNDATIONS.
  4. INSTALLATION OF ALL UNDERGROUND UTILITIES THROUGHOUT THE ENTIRE SITE AREA, I.E. PIPING, ELECTRICAL CABLES AND DUCTBANKS, ETC. PROVIDE INLET PROTECTION FOR ALL CATCH BASINS.
  5. ROUGH GRADE ACCESS DRIVE. SURFACE TO CONSIST OF CRUSHED STONE.
  6. INSTALLATION OF HEAVY HAVA ROAD THROUGH THE CENTERLINE OF UNIT 3. SURFACE TO CONSIST OF CRUSHED STONE.
  7. EXCAVATE AND INSTALL MUD MATS FOR ALL STEAM/GAS TURBINES AND STEP-UP TRANSFORMERS.
  8. INSTALL FOUNDATIONS FOR STEAM TURBINE, GAS TURBINE AND STEP-UP TRANSFORMER FOR UNIT 1.
  9. SET STEAM TURBINE, GAS TURBINE AND STEP-UP TRANSFORMER FOR UNIT 1.
  10. INSTALL FOUNDATIONS FOR STEAM TURBINE, GAS TURBINE AND STEP-UP TRANSFORMER FOR UNIT 2. INSTALL FOUNDATION FOR HEAT RECOVERY STEAM GENERATOR (HRSG) UNIT 1.
  11. SET STEAM TURBINE, GAS TURBINE AND STEP-UP TRANSFORMER FOR UNIT 2.
  12. ENCLOSURES OF THE GENERATOR SETS MAY PROCEED AS EACH IS SET INTO PLACE.
  13. INSTALLATION OF HRSG FOR UNIT 1, UTILIZING THE UNIT 1 AIR COOLED CONDENSER (ACC) AREA FOR LAYDOWN OF COMPONENTS. INSTALL FOUNDATION FOR HRSG UNIT 2.
  14. INSTALLATION OF HRSG FOR UNIT 2, UTILIZING THE UNIT 2 ACC AREA FOR LAYDOWN OF COMPONENTS, FOLLOWED BY INSTALLATION OF HRSG ENCLOSURES FOR UNIT 1 AND 2.
  15. ALL ANCILLARY AND BOP SYSTEMS, COMPONENTS, AND STRUCTURES CAN BE CONSTRUCTED AND SEQUENCED AS NEEDED TO LEVEL RESOURCES AND AVOID HIGH CONGESTED AREAS WITHOUT INTERFERENCE WITH THE POWER BLOCK INSTALLATIONS. AS IT RELATES TO CONSTRUCTION OF FUEL GAS METERING STATION, REFER TO SHEET SP1 FOR INITIAL EROSION AND SEDIMENT CONTROL SEQUENCING.
  16. INSTALLATION OF ACC UNIT 1
  17. INSTALLATION OF ACC UNIT 2
  18. INSTALLATION OF ACC UNIT 3
  19. INSTALLATION OF HRSG FOR UNIT 3, UTILIZING THE AREA JUST EAST OF THE FIN FAN COOLER FOR LAYDOWN. INSTALLATION OF THE HRSG ENCLOSURE TO FOLLOW.
  20. INSTALL FOUNDATIONS FOR STEAM TURBINE, GAS TURBINE AND STEP-UP TRANSFORMER FOR UNIT 3.
  21. SET STEAM TURBINE, GAS TURBINE AND STEP-UP TRANSFORMER FOR UNIT 3, FOLLOWED BY THE INSTALLATION OF THE ENCLOSURE.
  22. BRING FINAL GRADING TO ELEVATION, INSTALL FIRST ROAD BASE, AND AREA GRAVEL.
  23. CONVERT SEDIMENT TRAPS TO STORMWATER MANAGEMENT FACILITIES AS DEPICTED ON SHEET SP2. PREPARE SUBSURFACE SEWAGE DISPOSAL SYSTEM PAD.
  24. ONCE SITE IS STABILIZED (VEGETATION ESTABLISHED), CONTACT PROJECT ENGINEER AND TOWN AUTHORIZED REPRESENTATIVE TO CONDUCT FINAL INSPECTION OF SITE PRIOR TO REMOVING REMAINDER OF EROSION AND SEDIMENT CONTROL MEASURES.
  25. FACILITY SYSTEMS TESTING AND COMMISSIONING.
  26. PLANT IS OPERATIONAL.
- \*CONSTRUCTION PHASING LISTED ABOVE WILL BE REFINED WITH MORE DETAIL FOR EACH PHASE DURING THE SITE PLAN REVIEW PROCESS.

PROJECT NAME  
CRICKET VALLEY ENERGY

DEVELOPER  
CRICKET VALLEY ENERGY CENTER, LLC.

OWNER OF RECORD  
HOWLANDS LAKE PARTNERS, LLC  
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MOUNT KISCO, NEW YORK 10549

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REV.	DATE	DESCRIPTION
2	04/24/12	REVISED PER TOWN & CLIENT COMMENTS
1	02/24/12	UPDATE FOR PDS

**CRICKET VALLEY ENERGY**

**PRELIMINARY CONSTRUCTION PHASING PLAN**

TOWN OF DOVER, DUTCHESS COUNTY, NEW YORK

Drawn	Checked
KPW	CL
Date: 7/16/10	Scale: 1" = 60'
Project No: 81001.00	Sheet No: SP3