

Exhibit CS-BW-54

Docket 8302

Exhibit CS-ECOS-4

*Site Plan, Construction Details,
and Elevations (Revised)*

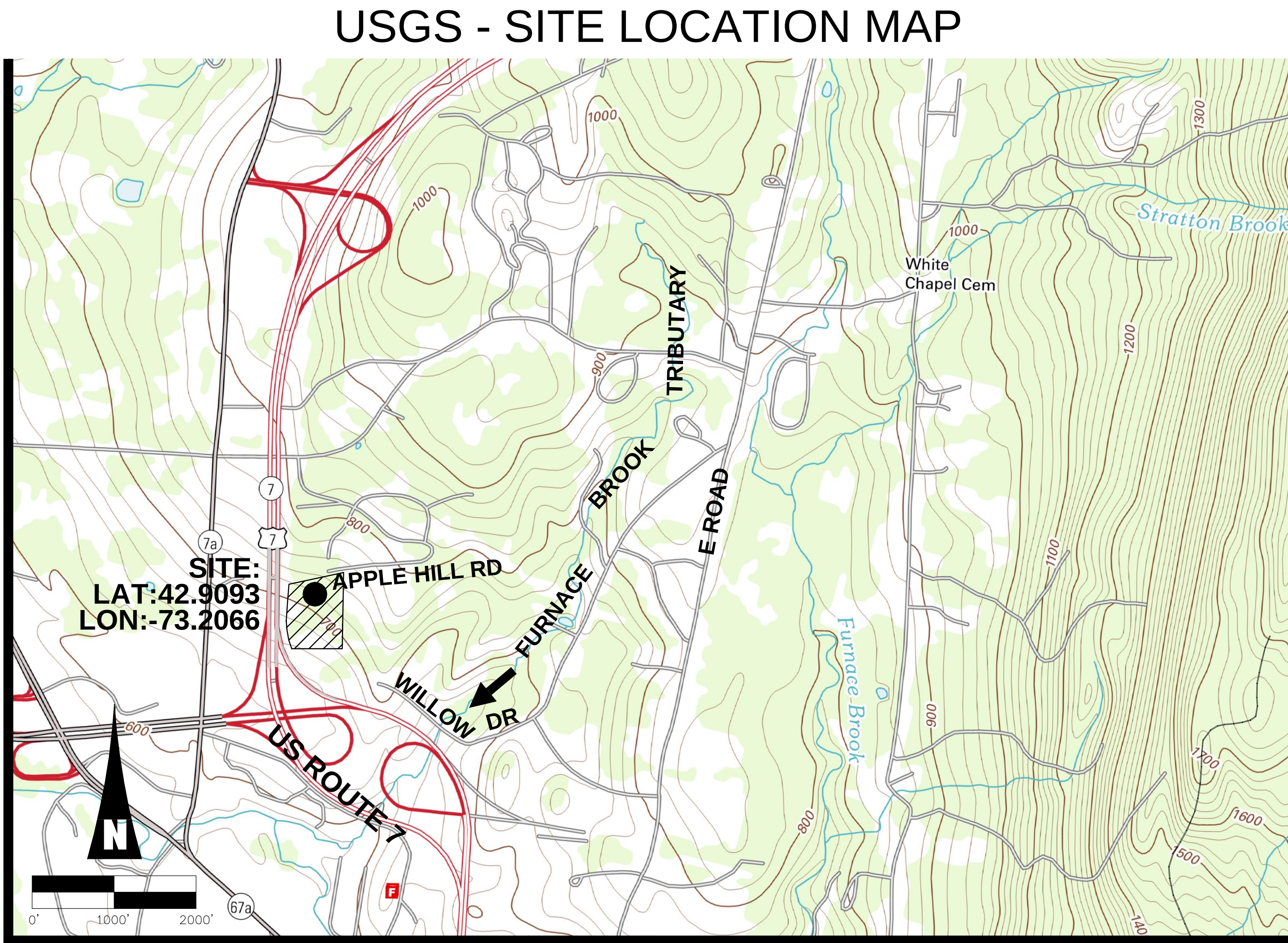
CHELSEA SOLAR CIVIL CONSTRUCTION PLANS

FOR

Site, Grading, Drainage/Erosion Control & Electrical Layout

IN

BENNINGTON, VERMONT



SHEET INDEX

●	9/25/2014	1	COVER SHEET
●	8/2/2013	2	ALTA SURVEY (VERMONT SURVEY CONSULTANTS, LLC)
●	9/25/2014	3	CIVIL SITE PLAN
●	9/25/2014	4	OFF SITE INTERCONNECTION PLAN
●	9/25/2014	5	CIVIL SITE DETAILS
●	9/25/2014	6	EROSION CONTROL PLAN
●	9/25/2014	7	GRADING PLAN
●	9/25/2014	8	GRADING & CLEARING DETAILS

DRAWING INDEX LEGEND

●	FILLED CIRCLE INDICATES DRAWING INCLUDED WITHIN THIS ISSUE
●	MOST RECENT REVISION NUMBER
●	MOST RECENT ISSUE OR REVISION DATE
●	X/XX/201X
X	SHEET TITLE

CONTACT INFO:

OWNER/DEVELOPER:
ECOS ENERGY
222 SOUTH 9TH STREET
SUITE 1600
MINNEAPOLIS, MN 55402

CIVIL ENGINEER:
SCOTT MICHAEL MAPES, P.E.
P.O. BOX 5517
BURLINGTON, VT 05402-5517
SMMAPES@AOL.COM

SURVEYOR:
VERMONT SURVEY CONSULTANTS, LLC
69 GROVE STREET
RUTLAND, VT 05701

WETLAND & RTE DELINEATION:
ARROWWOOD ENVIRONMENTAL
950 BERT WHITE ROAD
HUNTINGTON, VT 05462

ecos
ENERGY

222 SOUTH 9TH STREET
SUITE 1600
MINNEAPOLIS, MN 55402

REVISION LOG:
2/3/2014 - 45 DAY NOTICE DOCUMENTS
6/13/2014 - PSB FILING DOCUMENTS
9/25/2014 - SUPPLEMENTAL FILING REVISIONS

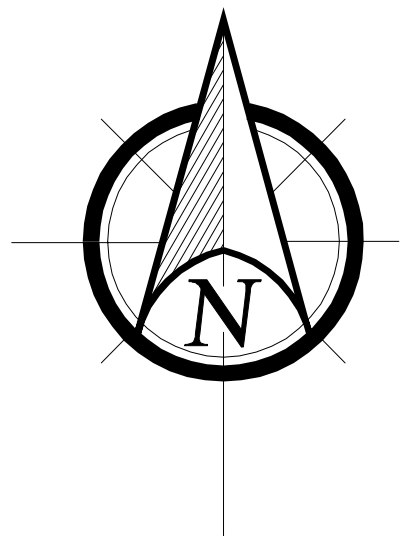
SCOTT MICHAEL MAPES, P.E.

Date: 9/25/14 Reg. No: 5007

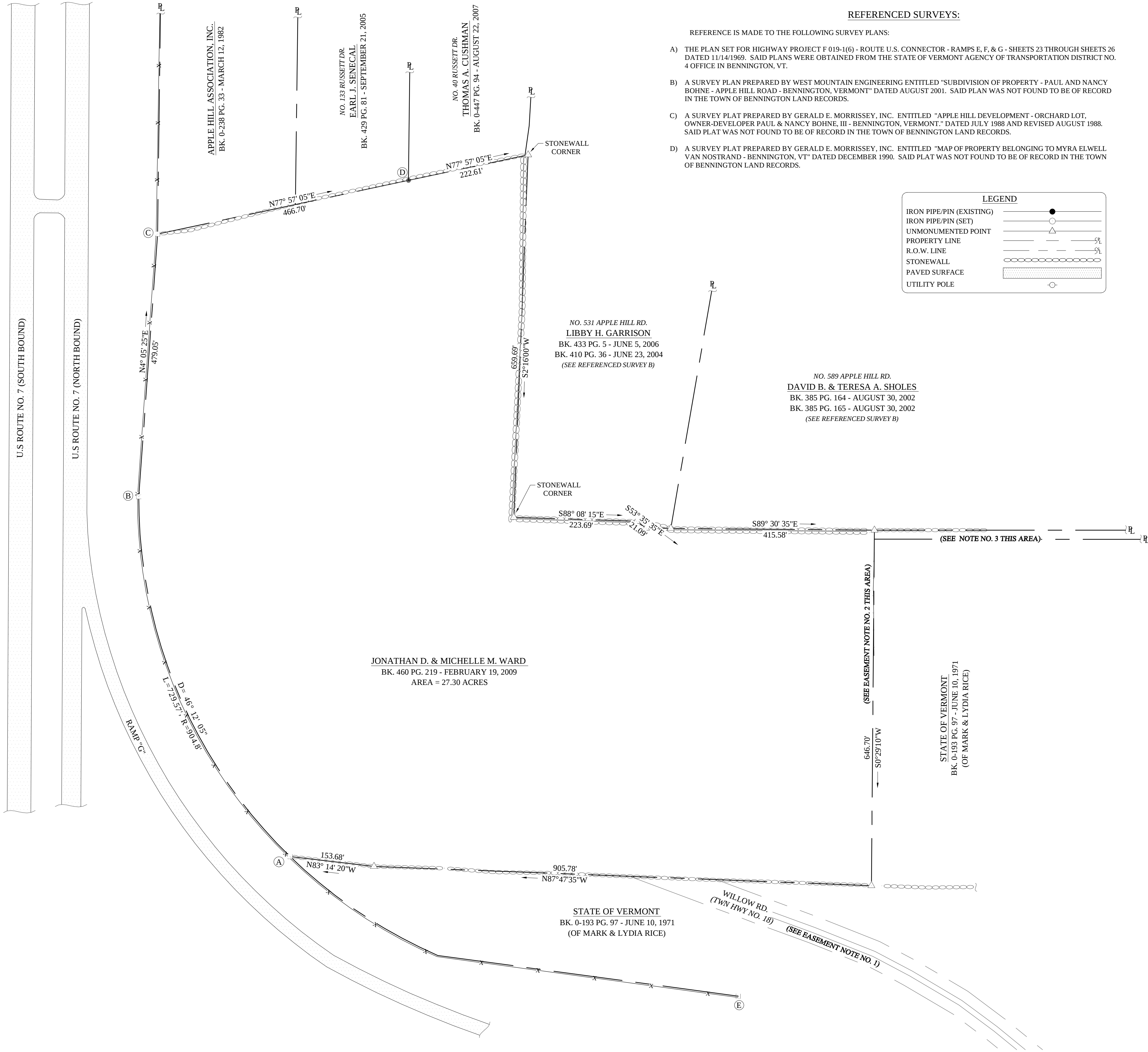
CHELSEA SOLAR
CIVIL CONSTRUCTION PLANS

1033 Willow Road
BENNINGTON, VT 05201
LAT: 42.9093 / LON: -73.2066
BENNINGTON COUNTY

COVER SHEET



1. **BASIS OF BEARING:**
BEARINGS AS DEPICTED ON THIS PLAT ARE WITH RESPECT TO THE VERMONT STATE PLANE COORDINATE SYSTEM (NAD 83) AND ARE BASED UPON GPS OBSERVATIONS MADE IN JULY 2013. DISTANCES AS DEPICTED ON THIS PLAT ARE GROUND DISTANCES. GRID DISTANCES ARE OBTAINED BY MULTIPLYING THE GROUND DISTANCE BY A FACTOR OF 0.99995745.
2. AT THE TIME OF THIS SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF THE FOLLOWING ON OR NEAR THE SUBJECT PROPERTY: 1) PRIVATE ROADWAYS; 2) UNOPENED STREETS; 3) CEMETERIES OR BURIAL GROUNDS; 4) OF THE SUBJECT PROPERTY BEING USED AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL; 5) CONSTRUCTION OR ALTERATION OF ROAD RIGHT-OF-WAYS OR SIDEWALKS. SITE CONDITIONS AS DEPICTED HEREON REFLECT THOSE PRESENT AT THE TIME OF THE SURVEY.
3. REFERENCE IS MADE TO THE DEED OF EVERETT HARWOOD TO ELMER G. ELWELL DATED AUGUST 5, 1915 AND RECORDED IN BK. 0-5 AT PG. 101 OF THE LAND RECORDS IN THE TOWN OF BENNINGTON, VT. SAID DEED CONVEYING A STRIP OF LAND ONE ROD (16.5') WIDE AND 71 RODS (1171.5') LONG RUNNING EAST TO WEST IN THE AREA DEPICTED HEREON. THIS PARCEL OF LAND WAS INCLUDED AS PARCEL A-2 IN THE DEED OF LANE TO WARD (BK. 460 AT PG. 219 - DATED FEBRUARY 19, 2009). THE EXACT LOCATION AND BOUNDARIES OF THIS PARCEL WAS UNABLE TO BE DETERMINED. THERE APPEARS TO BE NO EVIDENCE IN THE FIELD AS TO THE LOCATION OF THIS STRIP OF LAND, NOR DOES IT APPEAR ON TAX PARCEL MAPPING OF THE TOWN OF BENNINGTON.
4. THE FOLLOWING ENCROACHMENTS WERE OBSERVED: NONE.

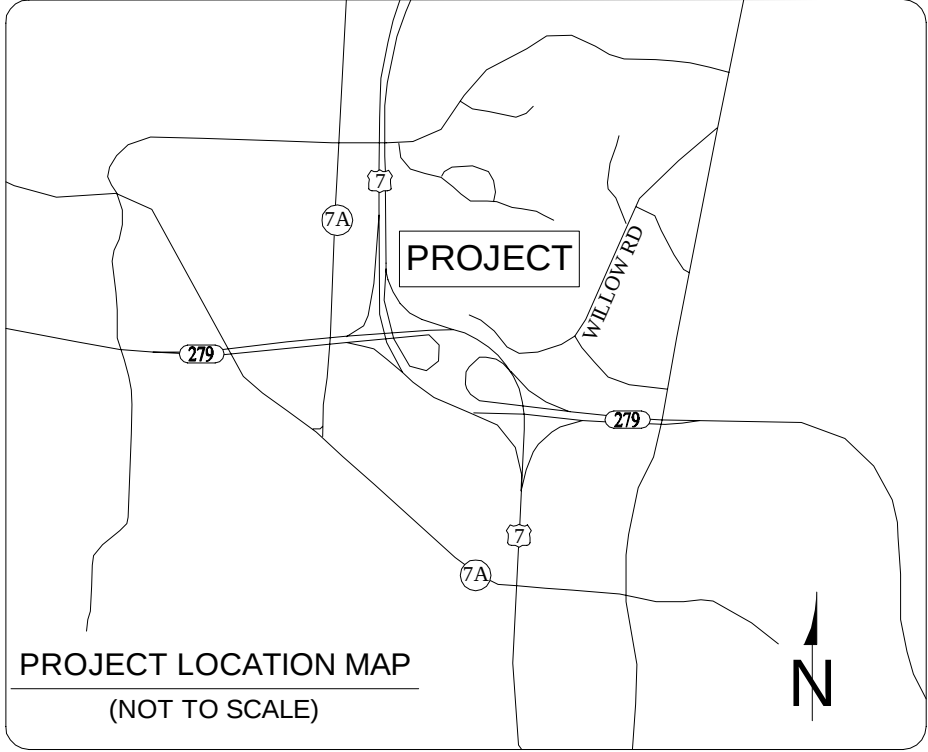


**ALTA/ACSM LAND TITLE SURVEY
CERTIFICATION**

TO ECOS ENERGY, LLC: THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1-4, 6, 8, 11a, 13, AND 16-18 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED IN JULY OF 2013.

DATE: _____
NAME: _____ RAYMOND PAGE - VT LS 723

REV.	DESCRIPTION	BY	DATE
1	COPYRIGHT © 2013 VERMONT SURVEY CONSULTANTS, LLC. ALL RIGHTS RESERVED. THIS DOCUMENT OR ANY PART THEREOF MAY NOT BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN PERMISSION FROM VERMONT SURVEY CONSULTANTS, LLC.		



MONUMENT SCHEDULE				
PROPERTY CORNER	MONUMENT	GRADE RELATIONSHIP	EXISTING/ SET	REMARKS
(A)	4" x 4" CONC. BOUND	ABOVE 8"	EXISTING	VT. HWY. DEPT.
(B)	4" x 4" CONC. BOUND	ABOVE 8"	EXISTING	VT. HWY. DEPT.
(C)	4" x 4" CONC. BOUND	ABOVE 10"	EXISTING	VT. HWY. DEPT.
(D)	1" IRON PIPE	ABOVE 12"	EXISTING	IN STONE WALL
(E)	4" x 4" CONC. BOUND	ABOVE 8"	EXISTING	VT. HWY. DEPT.
ADDITIONAL MONUMENTATION USED IN THIS SURVEY IS OFF LOCUS.				

SITE RESTRICTIONS:
ZONE: RURAL CONSERVATION
ALL SITE RESTRICTIONS WERE OBTAINED PER THE TOWN OF BENNINGTON
CONTACT NAME: DANIEL MONKS
TITLE: ZONING ADMINISTRATOR
CONTACT NUMBER: (802)-442-1037

SETBACK RESTRICTION
FRONT - 50' SIDE - 30' REAR - MIN 50'
MAX. BUILDING HEIGHT - 30' MAX. BUILDING COVERAGE - 10%

FLOOD NOTE:
BY GRAPHIC PLOTTING ONLY, THIS PROPERTY APPEAR TO BE IN ZONE "C" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 500013 0005 C, WHICH BEARS AN EFFECTIVE DATE OF JUNE 17, 1986. THIS IS NOT A SPECIAL FLOOD HAZARD AREA.

EASEMENT & RIGHT-OF-WAY NOTES:

1. WILLOW ROAD (TOWN HIGHWAY NO. 18) IN THE AREA OF THE SUBJECT PROPERTY IS A CLASS 4 PUBLIC ROADWAY. THAT PORTION OF THE SAID WILLOW ROAD NOTED AS CLASS 4 IS PURPORTED TO BE 0.37 MILES IN LENGTH, WHICH PLACES THE APPROXIMATE TERMINUS AT OR NEAR THE SOUTHERLY LINE OF THE PROPERTY DEPICTED HEREON. THE ORIGINAL WIDTH OF THE ROADWAY AS LAID OUT COULD NOT BE DETERMINED AND THUS BY VERMONT STATUTE THE LIMITS OF WILLOW ROAD WERE SURVEYED AT 1-1/2 RODS (24.75') FROM THE CENTERLINE OF THE ROADWAY.
2. REFERENCE IS MADE TO THE DEEDS OF MYRA VAN NOSTRAND TO PHILIP & MARIAN VAN NOSTRAND (PREDECESSORS IN TITLE TO WARD) DATED DECEMBER 28, 1990 AND MARCH 14, 1991 AND RECORDED IN BK. 0-288 AT PG. 247 AND BK. 0-289 AT PG. 213 RESPECTIVELY. THE FIRST MENTIONED DEED CONVEYING A 1/2 INTEREST IN THE SUBJECT PROPERTY AND RESERVING AN EASEMENT FOR INGRESS, EGRESS, & UTILITY LINES 16.5' WIDE AND 621.5' LONG IN THE AREA INDICATED. THE SECOND CONVEYING THE REMAINING 1/2 INTEREST. FURTHER REFERENCE IS MADE TO THE DEED DATED NOVEMBER 10, 1994 AND RECORDED IN BK. 0-316 AT PG. 200. THIS DEED CONFIRMS A QUIT-CLAIM TO THE SAID PHILIP & MARIAN VAN NOSTRAND OF THE RIGHTS RESERVED BY THE SAID MYRA VAN NOSTRAND. IT IS MY OPINION THAT THIS EASEMENT NO LONGER ENCUMBERS THE SUBJECT PROPERTY.

THIS SURVEY WAS PREPARED FOR AND IS CERTIFIED TO ECOS ENERGY, LLC.

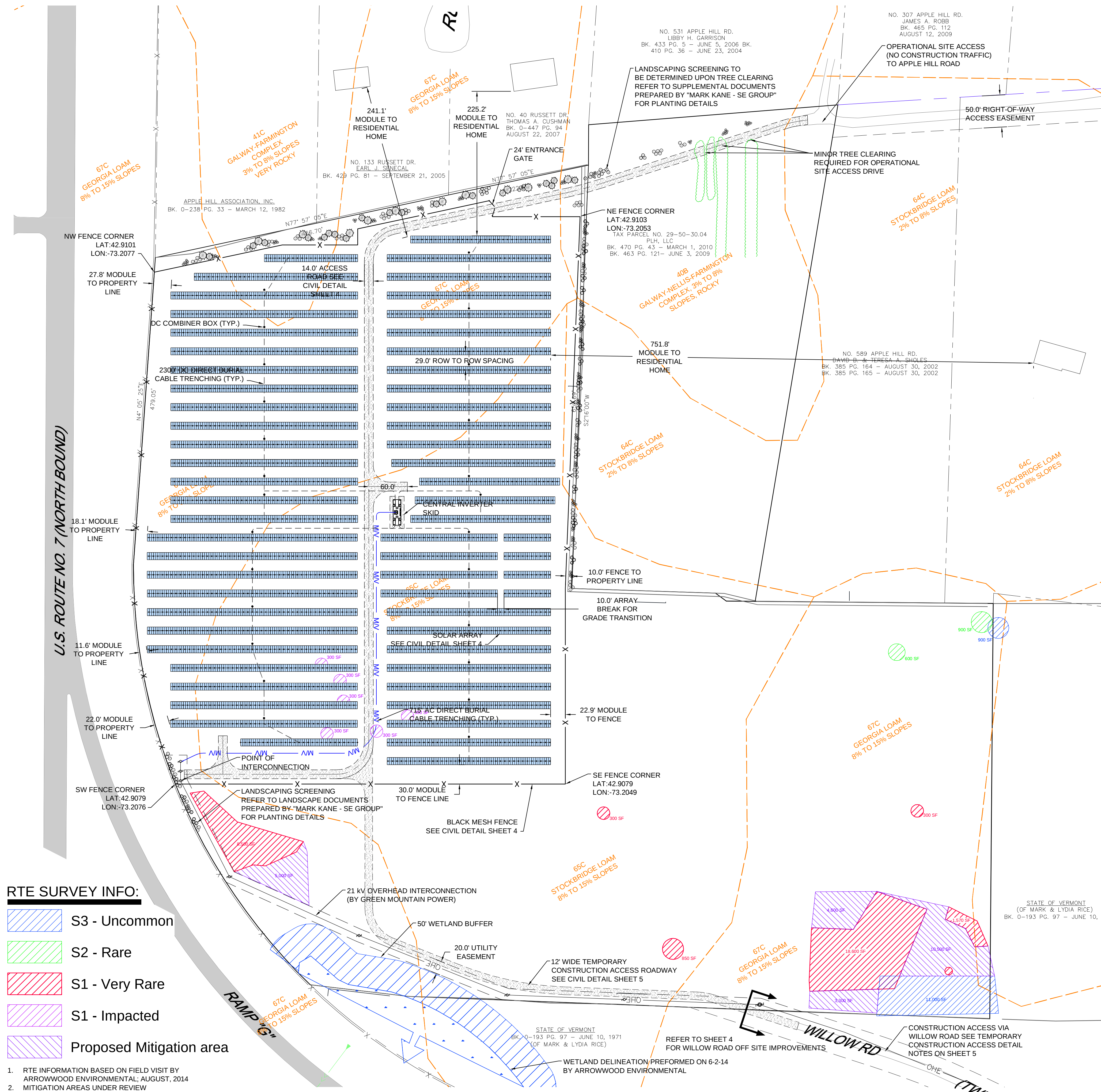
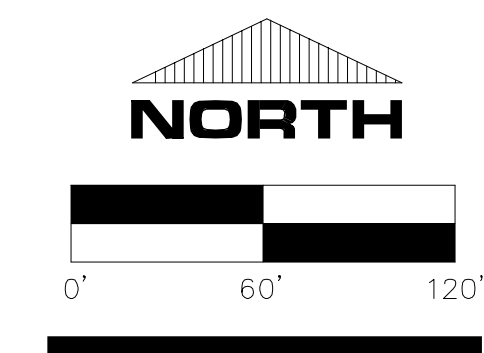
**VERMONT SURVEY
CONSULTANTS, LLC**
LAND SURVEYING - MAPPING - SUBDIVISIONS
69 GROVE STREET RUTLAND, VERMONT 05701 (802) 773-2210

ALTA/ACSM LAND TITLE SURVEY
**PROPERTY OF JONATHAN M. & MICHELLE M. WARD
TO BE CONVEYED TO ECOS ENERGY, LLC**
1031 WILLOW ROAD & U.S. ROUTE 7
TOWN OF BENNINGTON - COUNTY OF BENNINGTON
STATE OF VERMONT

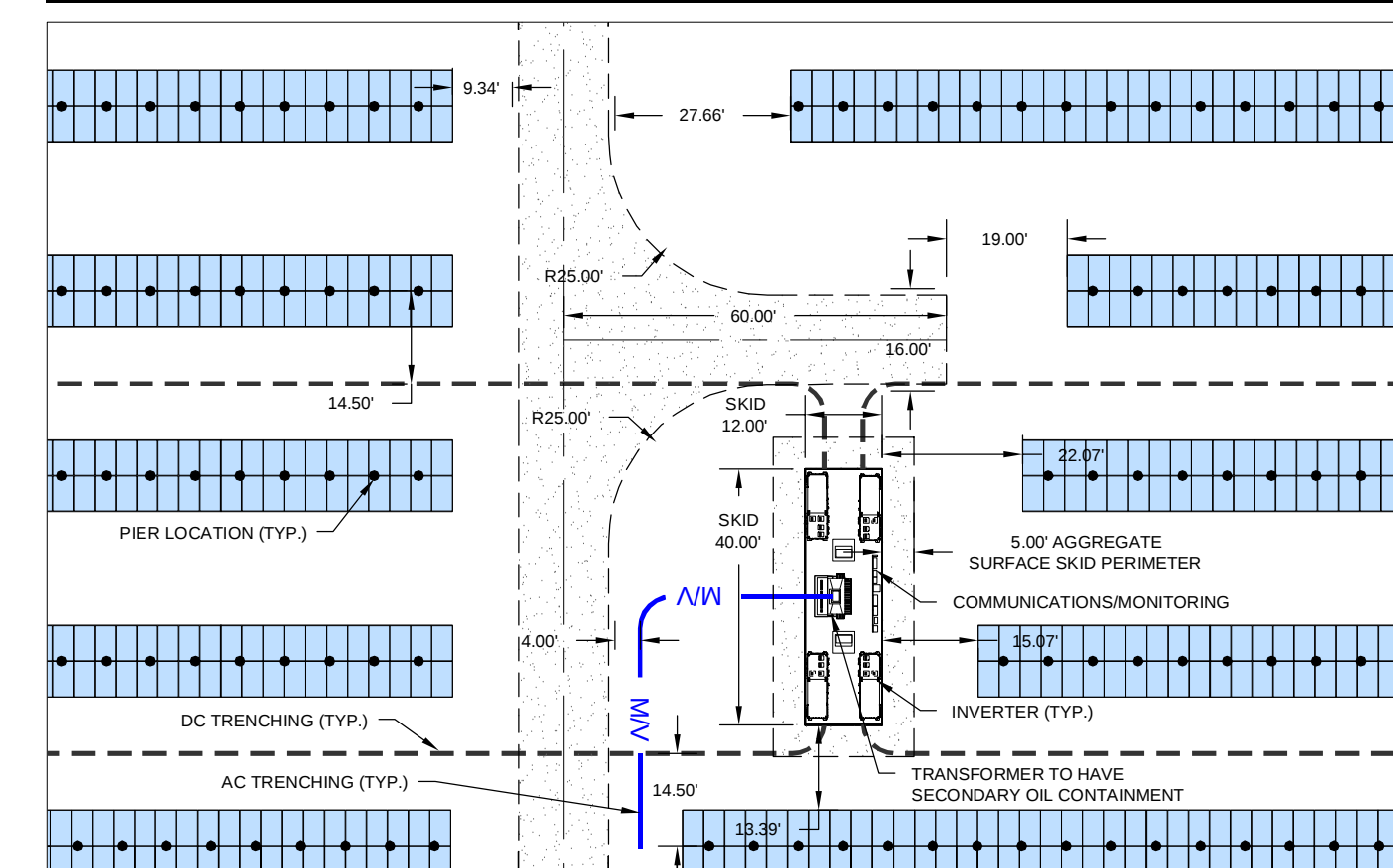
PROJ. NO: 2013-25
SCALE: 1" = 100 FT.
DRAWN BY: KJB
DATE: AUGUST 2, 2013
SHEET 1 OF 1

NOT VALID
UNTIL SEALED

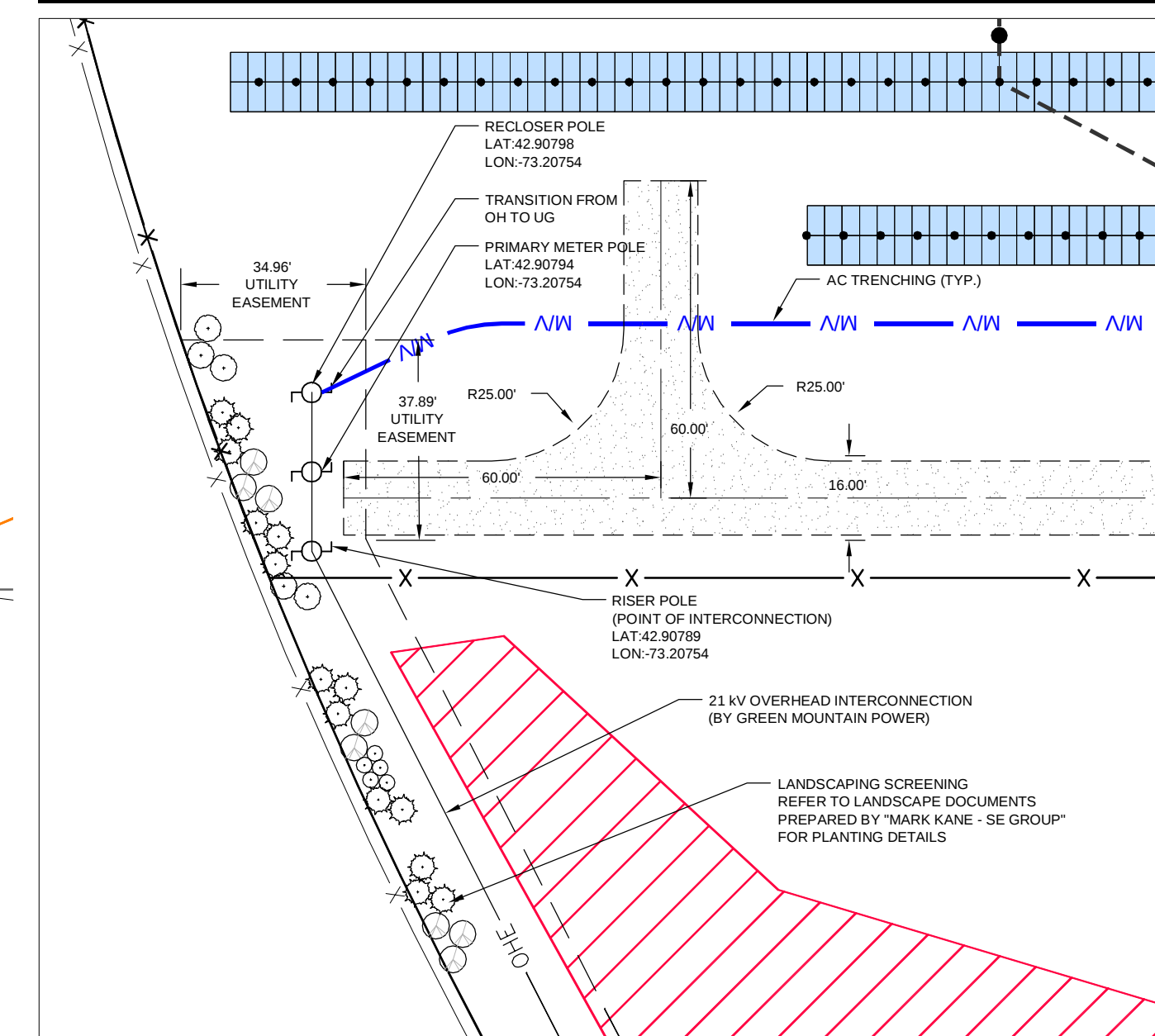
REV.
-



INVERTER SKID DETAIL - 1"=30'



INTERCONNECTION DETAIL - 1"=30'



LEGEND:

- EXISTING PROPERTY LINE
- PROPOSED SETBACK
- PROPOSED FENCE
- PROPOSED GRAVEL ACCESS ROAD
- PROPOSED SOLAR ARRAY BLOCK
2 STRINGS - 11 MODULES
- AC DISTRIBUTION TRENCH
- DC DISTRIBUTION TRENCH
- NRCS SOIL INFORMATION

GENERAL NOTES

- PROPERTY SURVEY INFORMATION FOR THIS PROJECT PROVIDED BY VERMONT SURVEY CONSULTANTS, LLC.
- REFER TO ALTA SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS. GEOTECHNICAL REPORTS HAVE BEEN PREPARED BY NEIL O ANDERSON AND ASSOCIATES. THE CONTRACTOR SHALL BE FAMILIAR WITH THE REPORTS AND SHALL REVIEW ALL RECOMMENDATIONS.
- ALL DIMENSIONS ARE TO EDGE OF GRAVEL, FENCE LINES AND PERPENDICULAR TO PROPERTY LINES UNLESS OTHERWISE NOTED.

SITE SURFACE CALCULATIONS

IMPERVIOUS CALCULATIONS	EXISTING SITE		PROPOSED SITE	
	SF	AC	SF	AC
TOTAL SITE AREA	1189164	27.30	1189164	27.30
GRAVEL ACCESS ROAD			27209	0.62
TEMPORARY CONSTRUCTION ACCESS			11828	0.27
RACKING FOUNDATIONS			755	0.02
INVERTER SKID AREA			1100	0.03
TOTAL IMPERVIOUS	0	0.00	40892	0.94
PERCENTAGES	PERVIOUS	IMPERVIOUS	PERVIOUS	IMPERVIOUS
	100.00%	0.00%	96.56%	3.44%

RTE SURVEY INFO:

- S3 - Uncommon
- S2 - Rare
- S1 - Very Rare
- S1 - Impacted
- Proposed Mitigation area

- RTE INFORMATION BASED ON FIELD VISIT BY ARROWWOOD ENVIRONMENTAL: AUGUST, 2014
- MITIGATION AREAS UNDER REVIEW

GENERAL NOTES

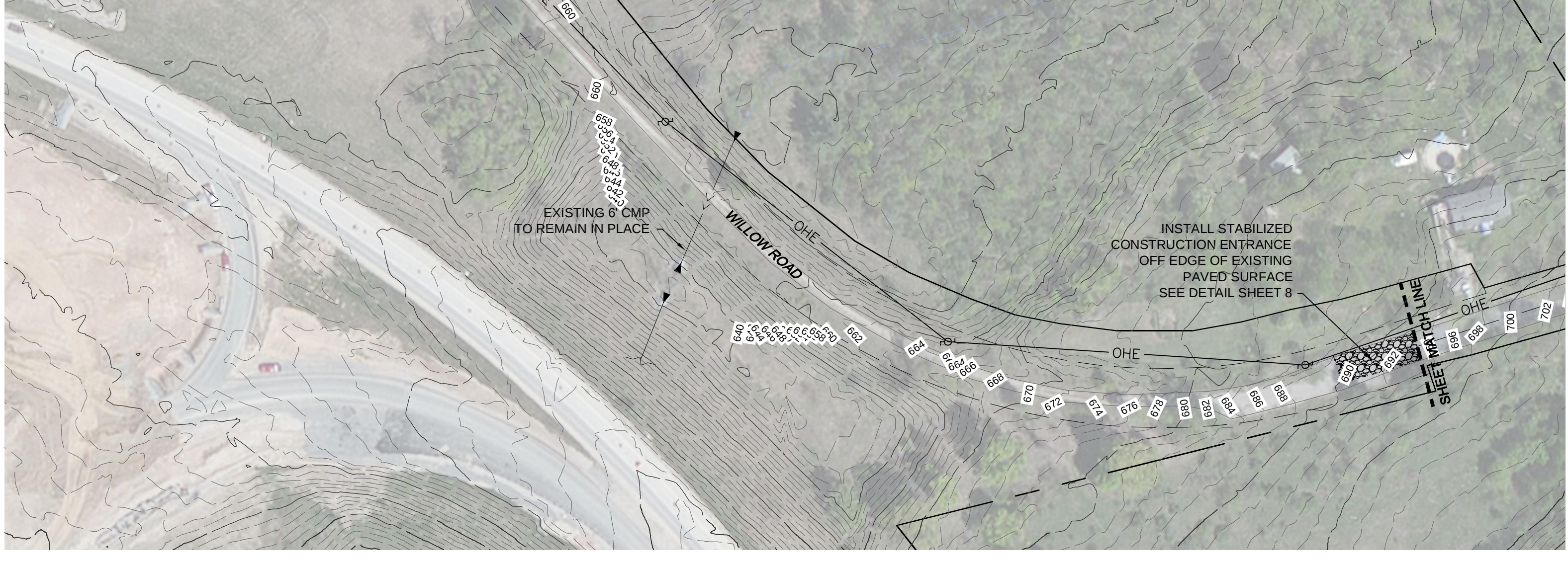
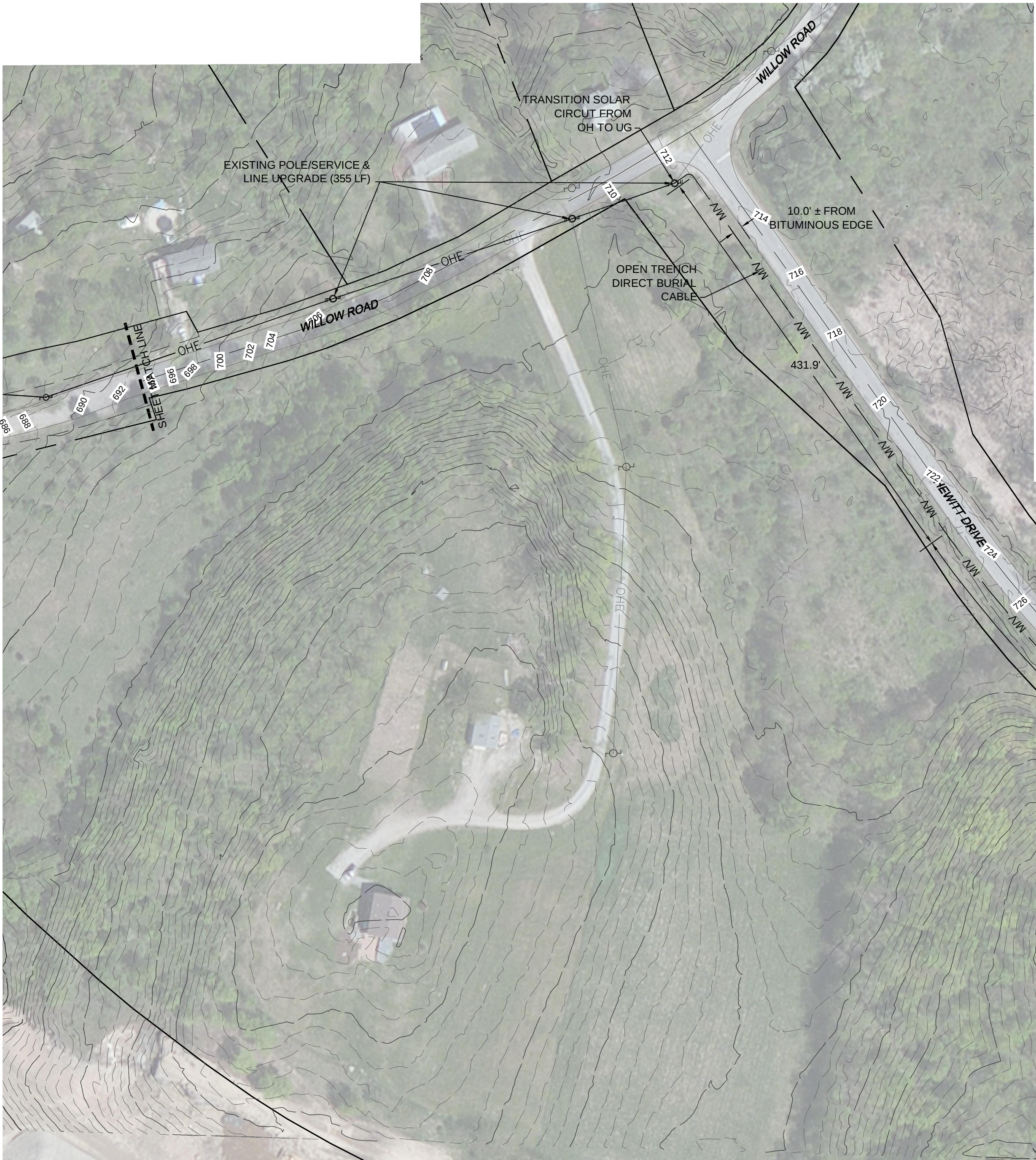
1. BENNINGTON PARCEL SURVEY INFORMATION PROVIDED BY VERMONT SURVEY CONSULTANTS, LLC. ALL OTHER PROPERTY & ROW LINES BASED ON GIS.
2. EXISTING TOPOGRAPHY PROVIDED BY VCGI INC. LIDAR POINT CLOUD PROCESSED BY ECOS ENERGY.
3. WILLOW ROAD (TOWN HIGHWAY NO. 18) IS A CLASS 4 PUBLIC ROADWAY. ROW ILLUSTRATED AT 1-1/2 RODS (24.75') FROM THE CENTERLINE OF THE REPRESENTED ROAD ALIGNMENT.
4. INTERCONNECTION ALIGNMENT IS CONCEPTUAL, FINAL DESIGN TO BE PREPARED BY GREEN MOUNTAIN POWER

CONSTRUCTION/EROSION CONTROL NOTES

1. PRIOR TO CONSTRUCTION GREEN MOUNTAIN POWER TO OBTAIN A CONSTRUCTION GENERAL PERMIT (3-9020) ISSUED BY THE VTANR FOR THE INTERCONNECTION INSTALLATION.

LEGEND

- GIS PROPERTY LINE
- M/V PROPOSED AC DISTRIBUTION TRENCH - 1930 LF
- OHE PROPOSED AC DISTRIBUTION OVERHEAD - 2295 LF



EROSION CONTROL PLAN NOTES:

1.

THE OWNER/CONTRACTOR SHALL ADHERE TO ALL EROSION PREVENTION SEDIMENT CONTROL PLAN (EPSC) REQUIREMENTS AND ANY PERMIT CONDITIONS OF THE PUBLIC SERVICE BOARD.
2.

THE OWNER/CONTRACTOR SHALL FOLLOW THE GUIDANCE AND CONDITIONS IN THE STATE CONSTRUCTION GENERAL PERMIT 3-9020, THE VERMONT EPSC FIELD GUIDE AND VERMONT STANDARDS & SPECIFICATIONS FOREPSC (2006). THIS MODERATE RISK AUTHORIZATION INCLUDES THE FOLLOWING REQUIREMENTS:

a.

IMPLEMENTATION OF EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES REQUIRED BY THE VT EPSC FIELD GUIDE AUGUST 2006.

b.

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 7 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY:

i.

STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION IN THE FORECAST WITHIN THE NEXT 24 HOURS.

ii.

STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN AN SELF CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. FOUNDATION EXCAVATIONS, UTILITY TRENCHES).

c.

NO MORE THAN 5.0 ACRES OF LAND MAY BE DISTURBED (EARTH DISTURBANCE OR CLEARING) AT ANY GIVEN TIME UNDER THIS AUTHORIZATION. DISTURBED LAND MUST BE STABILIZED IN ACCORDANCE WITH THE PROJECT PHASING PLAN BEFORE INITIATING NEW DISTURBANCE ON THE SITE.

d.

INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT RESULTING IN DISCHARGE OF STORMWATER FROM THE CONSTRUCTION SITE.

e.

IF THERE IS A DISCHARGE OF VISIBLY DISCOLORED STORMWATER FROM THE CONSTRUCTION SITE OR FROM THE SITE TO THE WATERS OF THE STATE, THE PERMITTEE SHALL TAKE IMMEDIATE CORRECTIVE ACTION.

f.

IF AFTER COMPLETING CORRECTIVE ACTION, THERE CONTINUES TO BE A DISCHARGE OF SEDIMENT FROM THE SITE TO THE WATERS OF THE STATE THE PERMITTEE SHALL NOTIFY THE DEC BY SUBMITTING A REPORT WITHIN 72 HOURS OF THE DISCHARGE.

3.

IMPLEMENTING A SUCCESSFUL EPSC, THE OWNER/CONTRACTOR SHALL SEEK TO:

a.

PREVENT EROSION AND THE TRANSPORT OF SEDIMENT OFF SITE ONTO PRIVATE PROPERTY, PUBLIC STREETS AND SIDEWALKS, INTO THE MUNICIPAL OR STATE STORMWATER SYSTEM, AND/OR WATERS OF THE STATE.

b.

PREVENT PARKING OF ANY CONSTRUCTION OR CONSTRUCTION RELATED VEHICLES ON PRIVATE PROPERTY WITHOUT RIGHT OR PERMISSION OR ON MUNICIPAL OWNED GREEN SPACE. ANY DAMAGE TO GREEN SPACE SHALL BE IMMEDIATELY ADDRESSED.

c.

TAKE ANY AND ALL STEPS NECESSARY TO ABATE EROSION AND TO CLEAN UP ALL RESULTING SEDIMENT DEPOSITED, DISCHARGED OR FOUND TO EXIST OFF SITE, ON TOWN STREETS AND SIDEWALKS AND/OR IN THE MUNICIPAL OR STATE STORMWATER SYSTEM.

d.

MAINTAIN ALL PROJECT EPSC DEVICES, MEASURES AND BMP'S AND PERFORM REQUISITE CLEANUP OF RESULTING SEDIMENTATION. THIS MAY INCLUDED BUT IS NOT LIMITED TO, DAILY SWEEPING OF STREETS AND SIDEWALKS AND CLEANING ANY STORMWATER CATCH BASINS.

e.

SPECIFY AN APPROPRIATE MULCH WHEN AND WHERE NEEDED AND ADEQUATE ANCHORING MEASURES TO PREVENT BLOW AWAY.

f.

SPECIFY AN EFFECTIVE GRASS REVEGETATION PROGRAM FOR TEMPORARY AND FINAL STABILIZATION. EMPLOY HYDRO-SEEDING, EC MATS AND/OR BLANKETS OR TURF REPLACEMENT IN AREAS WHERE REVEGETATION OF GRASS MAY BE DIFFICULT WITH USING TRADITIONAL SEED AND MULCH TO REESTABLISH ALL EXISTING AND PROPOSED GREEN SPACE. WHERE PRACTICAL CONSIDER POROUS (PERVIOUS) PAVERS OR PERMEABLE SURFACES.

g.

BE PROACTIVE IN PLANNING AND EXECUTING CONSTRUCTION PHASE ACTIVITIES WITH THE GOAL OF PREVENTING EROSION AND CONTROLLING SEDIMENT AND LIMITING THE AREA OF EXPOSED EARTH.

h.

IDENTIFY PARTIES TO THE EPSC PLAN AND CLEARLY DEFINE THEIR RESPECTIVE ROLES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, THE CONTRACTOR, THE ON SITE COORDINATOR, THOSE RESPONSIBLE FOR PROJECT ADHERENCE TO THE EPSC, AND THOSE PARTICIPATING IN INSPECTIONS AND ACCEPTANCE OF FINAL STABILIZATION.

4.

AT THE OUTSET OF CONSTRUCTION AND ESPECIALLY WHERE SITE DISTURBANCES, INCLUDING TREE AND BRUSH CLEARING AND GRUBBING, ARE TO OCCUR, THE OWNER/CONTRACTOR SHALL TAKE APPROPRIATE STEPS AND MEASURES TO DEFINE THE OVERALL STRATEGY FOR THE EPSC PLAN BY:

a.

LIMITING AND/OR PHASING ACTUAL DISTURBANCE AREA AND TIMING OF DISTURBANCE WITH ALL CONSTRUCTION ACTIVITIES. THIS PROJECT SHALL ADHERE STRICTLY TO NO MORE THAN 5 ACRES OF DISTURBED OR CLEARED AREA LIMIT.

b.

EMPLOYING PROPER SITE STABILIZATION TECHNIQUES AND ADDRESSING SOIL/SITE PREPARATION FOR TEMPORARY AND FINAL SEEDING AND LANDSCAPING, SEED AND MULCH.

c.

INSTALLING STONE AND/OR GRASS SWALE LINING, TEMPORARY OR PERMANENT, WHERE APPROPRIATE OR AS DEPICTED ON THE PROJECT PLANS.

d.

EMPLOYING EROSION CONTROL BLANKETS OR MATS, TEMPORARY OR PERMANENT, WHERE APPROPRIATE OR AS DEPICTED ON THE PROJECT PLANS.

e.

INSTALLING AND MAINTAINING SILT FENCE AND CONSTRUCTION BARRIER FENCING.

5.

TO SUCCESSFULLY IMPLEMENT THE PROJECT EPSC PLAN IN ACCORDANCE WITH THE PROJECT 3-9020 CGP, THE OWNER/CONTRACTOR SHALL:

a.

IDENTIFY THE CONTRACTOR WHO IS RESPONSIBLE FOR INSTALLING, IMPLEMENTING, AND MAINTAINING THE EPSC PLAN AND MEASURES.

b.

IDENTIFY THE ONSITE CONTRACTOR WHO IS RESPONSIBLE FOR THE DAY-TO-DAY MONITORING, OVERSIGHT, AND INSPECTIONS REQUIRED BY THE EPSC PLAN.

c.

ASSURE THAT ANY AMENDMENTS TO THE PROJECT EPSC PLAN ARE FILED WITH THE APPROPRIATE AGENCIES AND/OR APPROVED BY THE PROJECT ENGINEER.

d.

ASSURE THE EROSION CONTROL MEASURES REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED ON ALL DISTURBED SURFACES AND CLEARLY IDENTIFY UNDER WHAT CONDITIONS FINAL SITE STABILIZATION HAS OCCURRED.

e.

PROVIDE A PROCESS WHEREBY THE PUBLIC SERVICE BOARD PARTICIPATES IN THE FINAL SITE STABILIZATION PROGRAM IF THE PROJECT CERTIFICATE OF PUBLIC GOOD SO REQUIRES.

6.

AS PART OF DECOMMISSIONING THE FACILITY, THE OWNER SHALL IMPLEMENT THE MEASURES OUTLINED IN THE PROJECT CERTIFICATE OF PUBLIC GOOD SITE AND SOIL RECLAMATION PLAN.
- WINTER CONDITIONS:
1.

ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 70% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACE 3 TO 4 TONS OF MULCH PER ACRE. SECURED WITH ANCHORED NETTING, ELSEWHERE, THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

2.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 70% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

3.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OR CRUSHED GRAVEL PER VAOT ITEM 704.05
- WATERSHED INFORMATION
1.

HUC-8 - 02020003

2.

HUC-12 - 020200030304

3.

SUBBASIN - HUDSON-HOOSIC

4.

REGION - MID-ATLANTIC

5.

SUBREGION - UPPER HUDSON
-
- PHASE 4
CLEARING &
EARTHWORK
0.29 ac
- CLEARING/GRUBBING NOTES
1.

BRUSH AND LOW GROWTH VEGETATION SHALL BE CUT AT 6" IN HEIGHT

2.

TREES LESS THAN 4" IN DIAMETER SHALL BE REMOVED

3.

TREES GREATER THAN 4" IN DIAMETER SHALL BE CUT AT EXISTING GRADE

4.

STUMPS GREATER THAN 4" IN DIAMETER SHALL BE REMOVED IN THE FOLLOWING LOCATIONS:

4.1.

AREAS ILLUSTRATED IN GRADING LIMITS

4.2.

INVERTER / EQUIPMENT SKID

4.3.

3' DIAMETER EACH ARRAY PIER

4.4.

ALL TRENCHING (MAY OCCUR DURING TRENCHING OPERATIONS)
- CLEARING & EARTHWORK PHASING
1.

LIMIT OF DISTURBANCE CORDON SHALL BE A 3 FT. HIGH ORANGE "CONSTRUCTION" SAFETY FENCE OR 4"THICK CORDON, AND SHALL BE LOCATED AS SHOWN ON THE APPLICABLE PHASE PLAN.

2.

SAID FENCE SHALL BE SUPPORTED BY STEEL "U" OR "I" TYPE POSTS PLACED AT A MAXIMUM OF 16 FT. INTERVALS OR FIXED TO TREES.

3.

FENCE SHALL BE WIRE OR "ZIP" TIED TO THE SUPPORT POSTS. THE FENCE SHALL BE MAINTAINED IN A WORKMAN LIKE MANNER, AND SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS ACHIEVED. A PHYSICAL CORDON/FENCE SHALL BE INSTALLED TO DEFINE LIMITS OF ALL NEW AREAS OF DISTURBANCE.

PHASE 1 SEQUENCING:

1.

CLEAR PHASE 1 AREA PER THE CLEARING AND GRUBBING NOTES.

2.

GRADE BIODETENTION SWALE 1E.

3.

INSTALL ACCESS ROADWAY CROSS CULVERTS AND PREP CULVERT INLETS AND OUTLETS.

4.

GRADE ACCESS ROADWAY AND CONVEYANCE SWALES.

5.

PERMANENTLY OR TEMPORARILY SEED THIS CONSTRUCTION SEQUENCE AS NECESSARY PER THE EROSION CONTROL NOTES THROUGHOUT CONSTRUCTION

6.

PHASE 1 AREA SHALL BE STABILIZED ACROSS THE ENTIRE PHASE BEFORE ADDITIONAL CLEARING AND/OR EARTH DISTURBANCE ACTIVITIES TAKE PLACE.
- PHASE 2 SEQUENCING:

1.

CLEAR PHASE 2 AREA PER THE CLEARING AND GRUBBING NOTES EITHER NORTH TO SOUTH.

2.

GRADE BIO-DETENTION SWALES 1A, 1B, 1C, & 1D AS CLEARING ACTIVITIES PROGRESS SOUTH

3.

PERMANENTLY OR TEMPORARILY SEED THIS CONSTRUCTION SEQUENCE AS NECESSARY PER THE EROSION CONTROL NOTES THROUGHOUT CONSTRUCTION.

4.

PHASE 2 AREA SHALL BE STABILIZED ACROSS THE ENTIRE PHASE BEFORE ADDITIONAL CLEARING AND/OR EARTH DISTURBANCE ACTIVITIES TAKE PLACE.
- PHASE 3 CLEARING SEQUENCING:

1.

CLEAR PHASE 3 AREA PER THE CLEARING AND GRUBBING NOTES FROM NORTH TO SOUTH.

2.

PERMANENTLY OR TEMPORARILY SEED THIS CONSTRUCTION SEQUENCE AS NECESSARY PER THE EROSION CONTROL NOTES THROUGHOUT CONSTRUCTION.
- PHASE 4 CLEARING SEQUENCING:

1.

CLEAR PHASE 4 AREA FOR THE INSTALLATION OF THE MAINTENANCE GRAVEL DRIVE. NEAR THE END OF PROJECT CONSTRUCTION TO PREVENT CONSTRUCTION TRAFFIC FROM USING APPLE HILL ROAD.

2.

PERMANENTLY OR TEMPORARILY SEED THIS CONSTRUCTION SEQUENCE AS NECESSARY PER THE EROSION CONTROL NOTES THROUGHOUT CONSTRUCTION.

LEGEND:

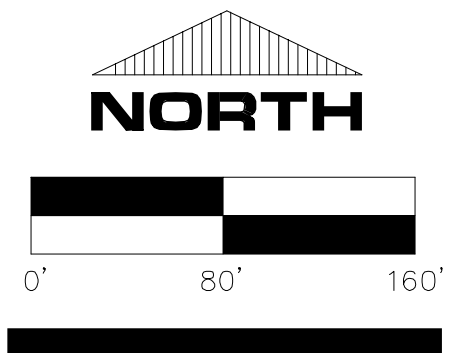
- EXISTING PROPERTY LINE
- PROPOSED FENCE
- PROPOSED GRAVEL ACCESS ROAD
- PROPOSED PIER LOCATION
- PROPOSED OVERHEAD ELECTRIC
- CLEARING AND EARTHWORK PHASING LIMITS
- LIMITS OF GRADING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SILT FENCE
- PROPOSED CONSTRUCTION RTE FENCE
- BIO-DETENTION SWALE
- CONVEYANCE SWALE
- HDPE STORM SEWER W/ RIP-RAP
- OUTLET CONTROL STRUCTURE



REVISION LOG:
2/8/2014 - 45 DAY NOTICE DOCUMENTS
6/13/2014 - PSB FILING DOCUMENTS
9/25/2014 - SUPPLEMENTAL FILING REVISIONS



Date: 9/25/14 Reg. No: 5007

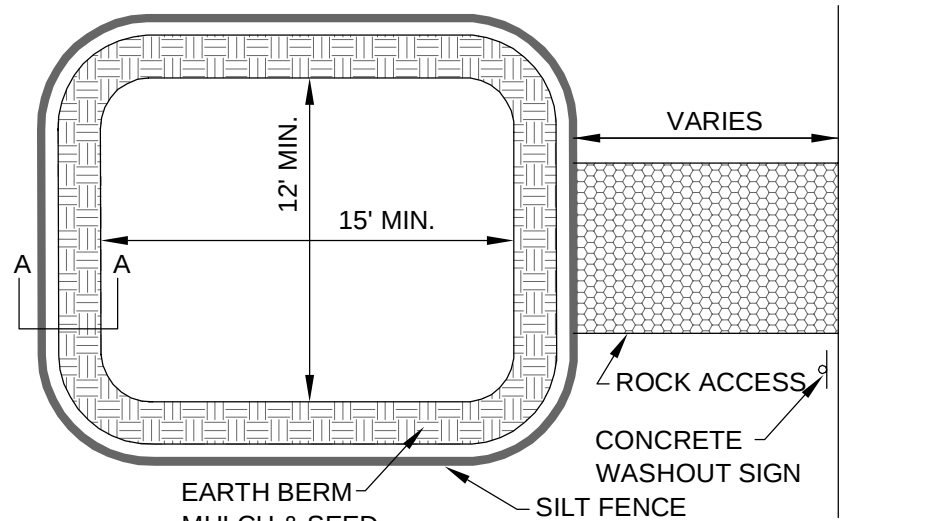


CHELSEA SOLAR
CIVIL CONSTRUCTION PLANS
1033 Willow Road
BENNINGTON, VT 05201
LAT:42.9093 / LON:-73.2066
BENNINGTON COUNTY
EROSION CONTROL PLAN

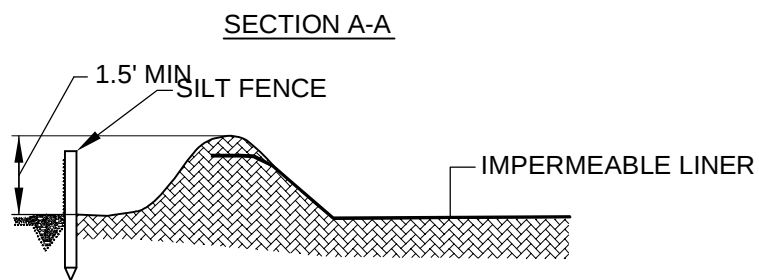
GENERAL NOTES

1. BACKGROUND SURVEY INFORMATION FOR THIS PROJECT PROVIDED BY VERMONT SURVEY CONSULTANTS, LLC.
2. REFER TO ALTA SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.
3. TOPOGRAPHY INFORMATION PROVIDED BY VERMONT CENTER FOR GEOGRAPHIC INFORMATION, INC. AND IS BASED ON LIDAR POINT CLOUD GROUND INFORMATION.
4. LIDAR SAMPLE SET WAS A 1.4 METER RESOLUTION CONVERTED TO IMPERICAL UNITS.
5. AREA OF GRADING 2.24 ACRES
6. 900 YD CUT / 1500 YD FILL IS ANTICIPATED FOR ACCESS ROADWAY AND INVERTER SKID CONSTRUCTION.
7. 600 YD OF AGGREGATE REQUIRED FOR ROADWAY CONSTRUCTION.
8. CUT AND FILL OF BIO-DETENTION SWALES SHALL BE A NET BALANCE OF EARTHWORK.

AN APPROVED ALTERNATE MAY BE USED



NOTE:
CONCRETE WASHOUT AREAS WILL HAVE AN IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL. IMPERMEABLE LINER INCLUDES 10 MIL POLYLINER OR COMPACTED CLAY LINER. WASHOUT SYSTEMS CAN BE USED AS ALTERNATE WASHOUT AREAS.



CONCRETE WASHOUT AREA

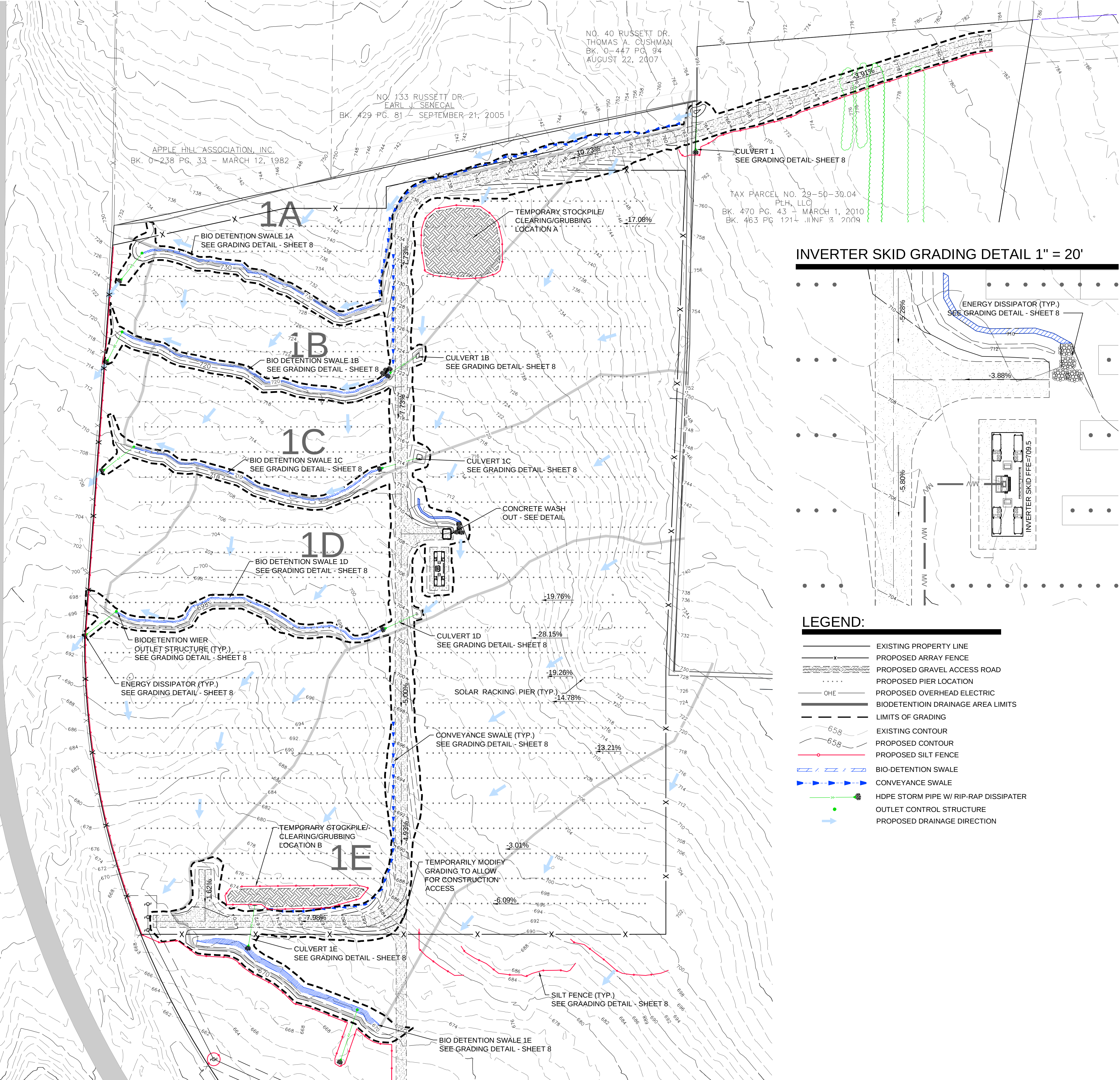
SEED MIXTURE INFO:

General Seed Mix			
	Variety	lbs./acre	lbs/1000 sq ft.
Birdsfoot trefoil ¹ OR	Empire/Pardee	5 ²	0.1
Common white clover ¹	Common	8	0.2
PLUS			
Tall Fescue	KY-31/Rebel	10	0.25
PLUS			
Redtop OR	Common	2	0.05
Reyegrass (Perennial)	Pennfine/Linn	5	0.1

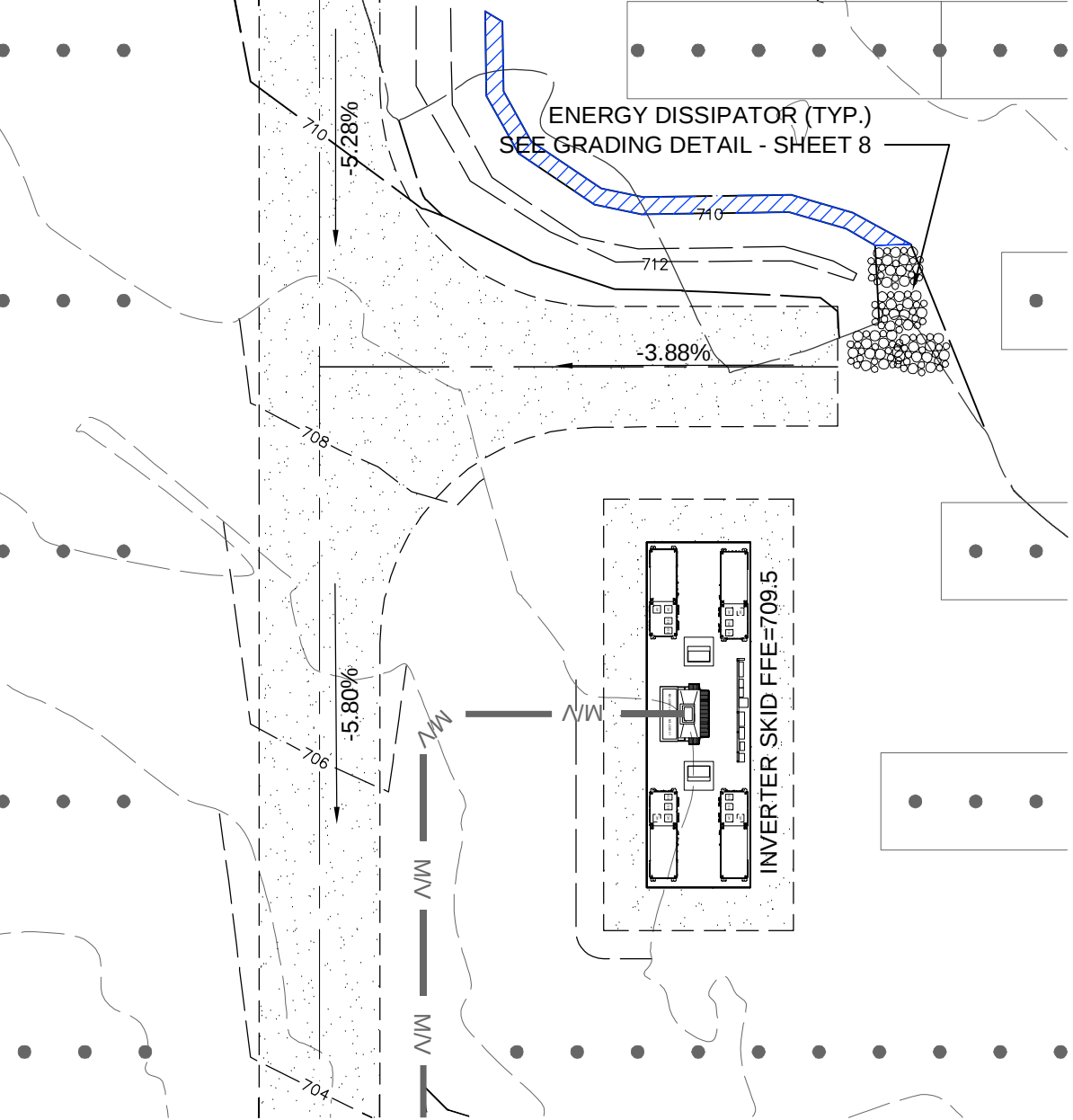
¹ Add inoculant immediately prior to seeding

² Mix 2.5 lbs each of Empire and Pardee OR 2.5 of Birdsfoot and 2.5 lbs white clover per acre.

U.S. ROUTE NO. 7 (NORTH BOUND)



INVERTER SKID GRADING DETAIL 1" = 20'



LEGEND:

- EXISTING PROPERTY LINE
- PROPOSED ARRAY FENCE
- PROPOSED GRAVEL ACCESS ROAD
- PROPOSED PIER LOCATION
- PROPOSED OVERHEAD ELECTRIC
- BIODETENTION DRAINAGE AREA LIMITS
- LIMITS OF GRADING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SILT FENCE
- BIO-DETENTION SWALE
- CONVEYANCE SWALE
- HDPE STORM PIPE W/ RIP-RAP DISSIPATER
- OUTLET CONTROL STRUCTURE
- PROPOSED DRAINAGE DIRECTION

