

DEVELOPMENT & MANAGEMENT PLAN (PHASE 1)



BARRETTE FARMS

SOLAR PANEL FACILITY

1 BALLARD ROAD
THOMPSON, CT 06227

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CV-1 COVER SHEET & INDEX

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LOCATION SURVEY (BY OTHERS)

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SITE INFORMATION

SITE NAME: "BARRETTE FARMS"
PROJECT LOCATION: 1 BALLARD ROAD
THOMPSON, CT 06227

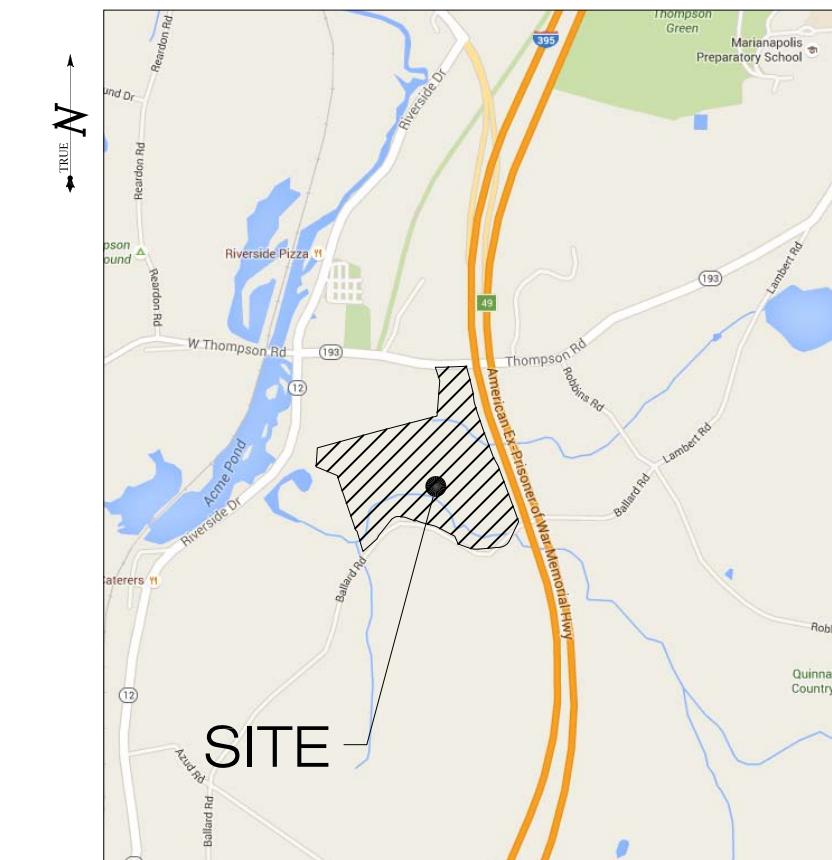
SITE TYPE/DESCRIPTION: ADD GROUND MOUNTED SOLAR PANEL ARRAYS W/ ASSOCIATED GRAVEL ACCESS DRIVE & EQUIPMENT. ADD CHAIN LINK FENCE GATE & ELECTRIC INTERCONNECTION FROM NEW FACILITY TO EXIST. ELECTRICAL GRID.

PROPERTY OWNER: BARRETTE, BERNARD J & LUCILLE T
129 ROBBINS ROAD
THOMPSON, CT 06227

ENGINEER CONTACT: BRADLEY J. PARSONS
(860) 663-1697 x208

LATITUDE: 41°56'39"N
LONGITUDE: 71°53'03"W
ELEVATION: 332± AMSL

ZONE: I-ZONE (INDUSTRIAL)
FEMA FIRM DESIGNATION: PANEL #0901170014B - ZONE C
TOTAL SITE ACREAGE: 49.26 ACRES
TOTAL DISTURBED AREA: 14.14± ACRES



LOCATION MAP
SCALE: 1"=1000'



1 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860)-580-7174



ALL-POINTS
TECHNOLOGY CORPORATION
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KILLINGWORTH, CT 06419 FAX: (860)-663-0335
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NO	DATE	REVISION
0	07/11/16	CSC SUBMISSION
1	11/30/16	D&M PLAN - PHASE 1
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3		
4		
5		
6		

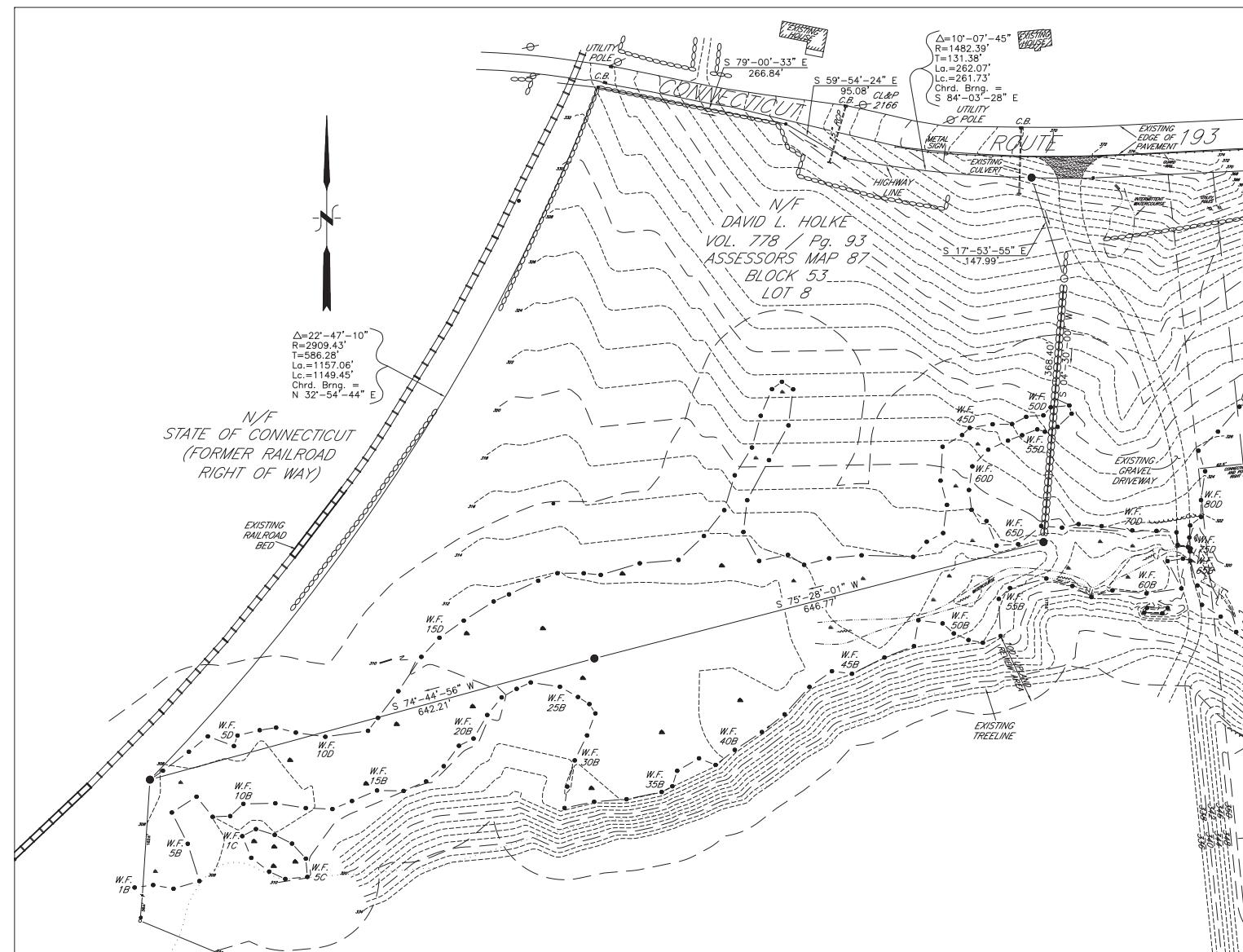
DESIGN PROFESSIONALS OF RECORD
PROF: BRADLEY J. PARSONS, P.E.
COMP: ALL POINTS TECHNOLOGY
CORPORATION, P.C.
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

NOTE:

C-TECSOLAR
"BARRETTE FARMS"
SITE: 1 BALLARD ROAD
ADDRESS: THOMPSON, CT
APT FILING NUMBER: CT481111
DRAWN BY: BJP
CHECKED BY: SMC
DATE: 07/11/16

SHEET TITLE:
COVER SHEET
& INDEX

SHEET NUMBER:
CV-1

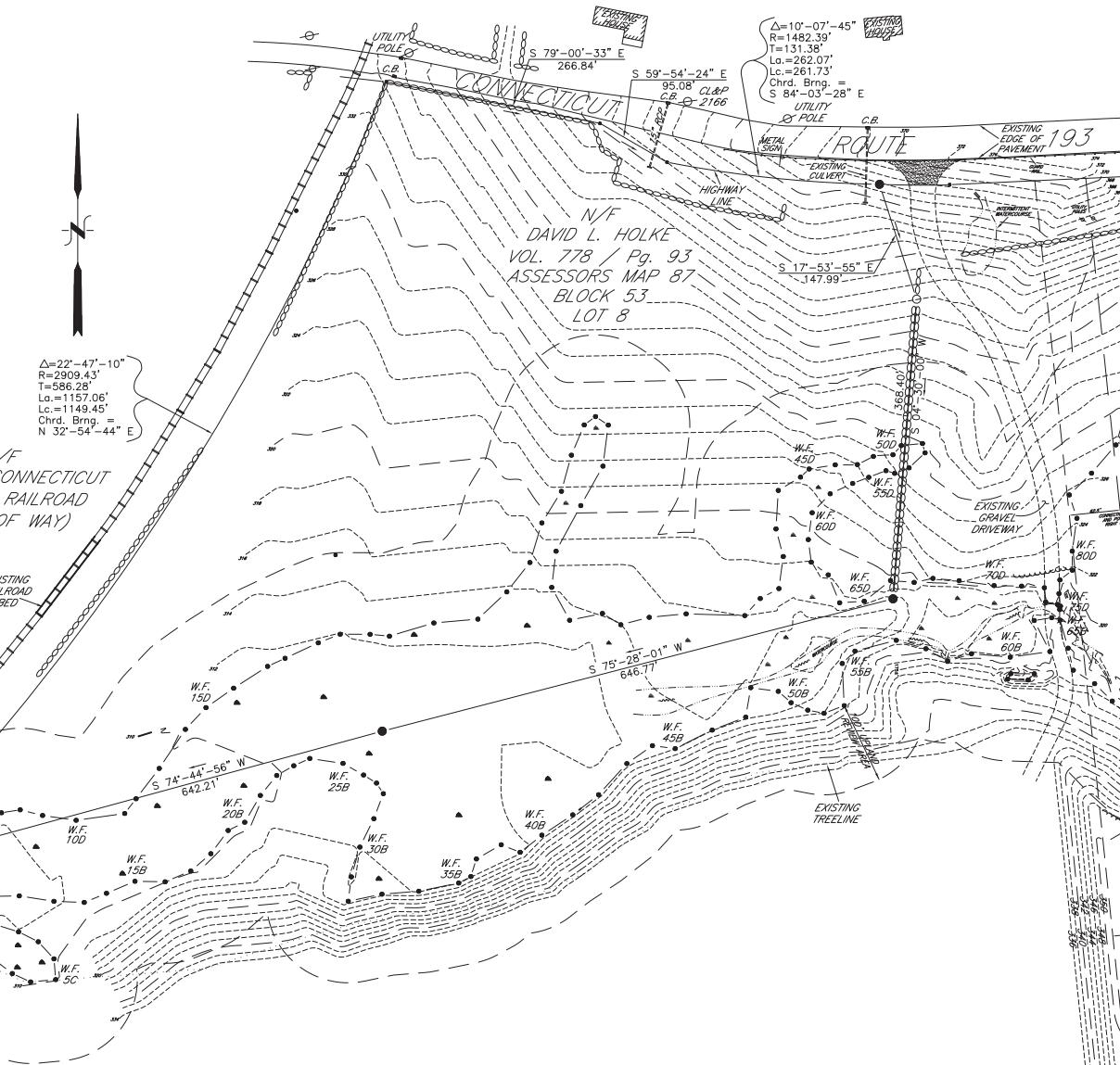



N/F
MARK D. CUNNINGHAM,
TRUSTEE
ASSESSORS MAP 87
BLOCK 53 LOT 10
VOL. 533 / Pg. 180

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HERON. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1998. THIS MAP CONFORMS TO HORIZONTAL ACCURACY CLASS D AND VERTICAL ACCURACY CLASS P-D.

SURVEY TYPE: IMPROVEMENT LOCATION PLAN - PROPOSED
BOUNDARY DETERMINATION CATEGORY: NONE

SURVEYORS SIGNATURE: 02/15 DATE: 12056



N/F
BERNARD J. & LUCILLE
BARRETTE
VOL. 760 / Pg. 34
ASSESSORS MAP 87
BLOCK 53 LOT 9C

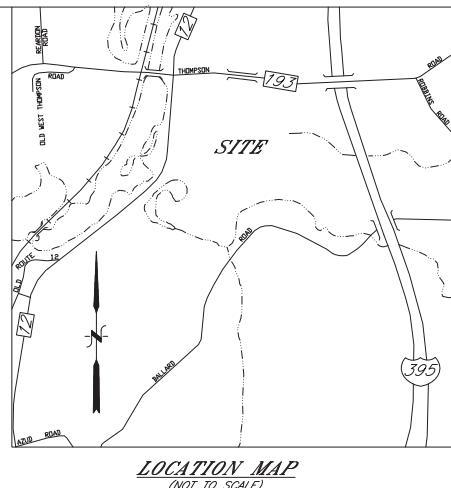
BALLARD
ROAD

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SURVEYORS - ENGINEERS

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NO DECLARATION IS EXPRESSED OR IMPLIED UNLESS THIS PLAN BEARS THE EMBOSSED SEAL OF THE LAND SURVEYOR AND/OR PROFESSIONAL ENGINEER WHOSE SIGNATURE APPEARS HEREON.

REV. DATE DESCRIPTION
1 05-27-2015 REVISED AREA FOR PANELS



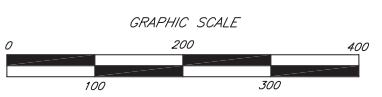
LOCATION MAP
(NOT TO SCALE)

GENERAL NOTES

THIS MAP PLAN WAS PREPARED FOR THE EXPRESS PURPOSES OF DEPICTING A PROPOSED SOLAR ARRAY ON LAND NOW OR FORMERLY OF BERNARD J. & LUCILLE BARRETTE. IT COMPRISSES OF FIELD DATA OBTAINED IN 1998 FOR CLARENCE BALLARD AND DEEDS FROM THE ADJACENT LAND OWNER DAVID L. HOLKE.

THIS MAP IS NOT TO BE CONSTRUED AS A BOUNDARY/LIMITED BOUNDARY OR PERIMETER/LIMITED PERIMETER SURVEY AND IT IS SUBJECT TO SUCH FACTS THAT MAY BE ACQUIRED DURING THE PERFORMANCE OF SAID SURVEYS.

THE WETLANDS DEPICTED HEREON WERE FIELD DELINEATED BY MIKE SCHAFER AND FIELD LOCATED BY MESSIER & ASSOCIATES, INC. AND ARE THE SAME AS THE WETLANDS DEPICTED ON THE PLANS/ MAPS PREPARED FOR CLARENCE BALLARD IN 1998.



MESSIER & ASSOCIATES, Inc.
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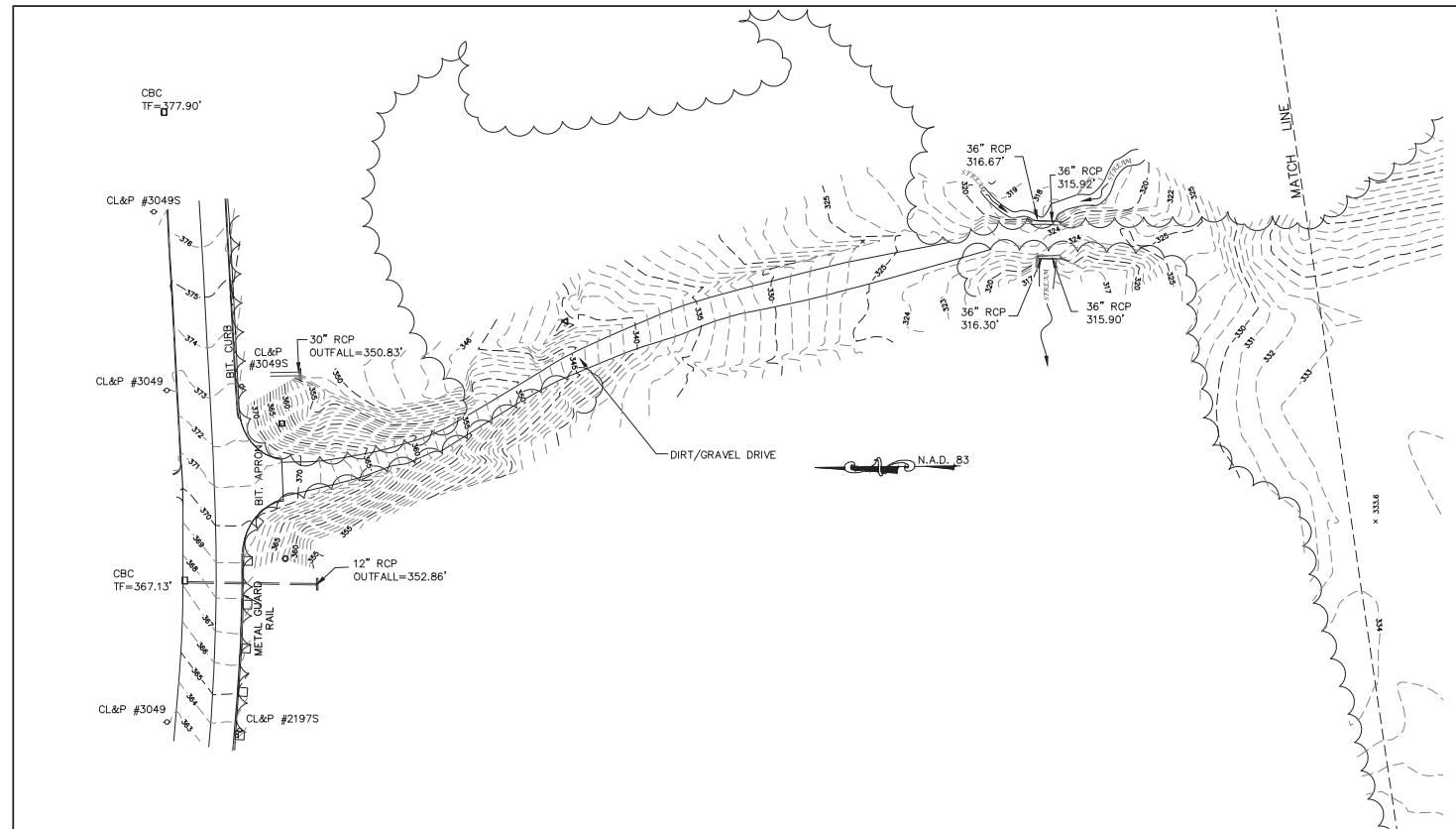
SURVEY-SUBDIVISION-SITE DESIGN-CONSTRUCTION LAYOUT

PROPOSED IMPROVEMENT LOCATION
PLAN FOR SOLAR ARRAY

PREPARED FOR:
C-TEC SOLAR
ON LAND N/F BERNARD J. & LUCILLE BARRETTE
1 BALLARD ROAD
THOMPSON, CONNECTICUT

DATE: 02/15
SCALE: 1=100 FT.
DESIGN: RRM
DRAWN: DAS
CHECK: RRM
SHEET: 1 OF 1
PROJECT No. 15-008
PLAN No. 15-008

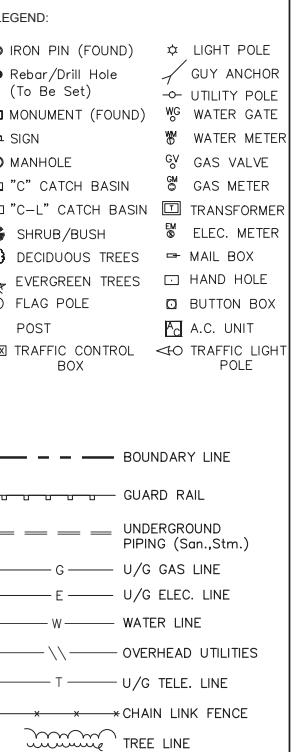
(COMP. FILE =15-008.DWG)



TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

DEAN MARTIN LICENSE NO. 70147

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED LICENSED PROFESSIONAL. UNAUTHORIZED ALTERATIONS TO THIS PLAN RENDER THE DECLARATION HEREON NULL AND VOID.



Surveying Associates, LLC

201 CHRISTIAN LANE BERLIN, CT 06037

860-832-9328 860-357-4604 (FAX)

REVISIONS:

MSA PROJECT NO: 16-037

SCALE: 1" = 60'	DRAWN BY: G.S.D.
DATE: 8/9/16	CHECKED BY: D.G.M.
SHEET:	
1 OF 1	

TRUE N
14°

C-TECSOLAR

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1	11/30/16	D&M PLAN - PHASE 1
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3		
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5		
6		

DESIGN PROFESSIONALS OF RECORD
PROF: BRADLEY J. PARSONS P.E.
COMP: ALL-POINTS TECHNOLOGY
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ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

NOTE:

**C-TECSOLAR
"BARRETTE FARMS"**
SITE 1 BALLARD ROAD
ADDRESS: THOMPSON, CT
APT FILING NUMBER: CT481111
DRAWN BY: BJP
CHECKED BY: SMC
DATE: 07/11/16

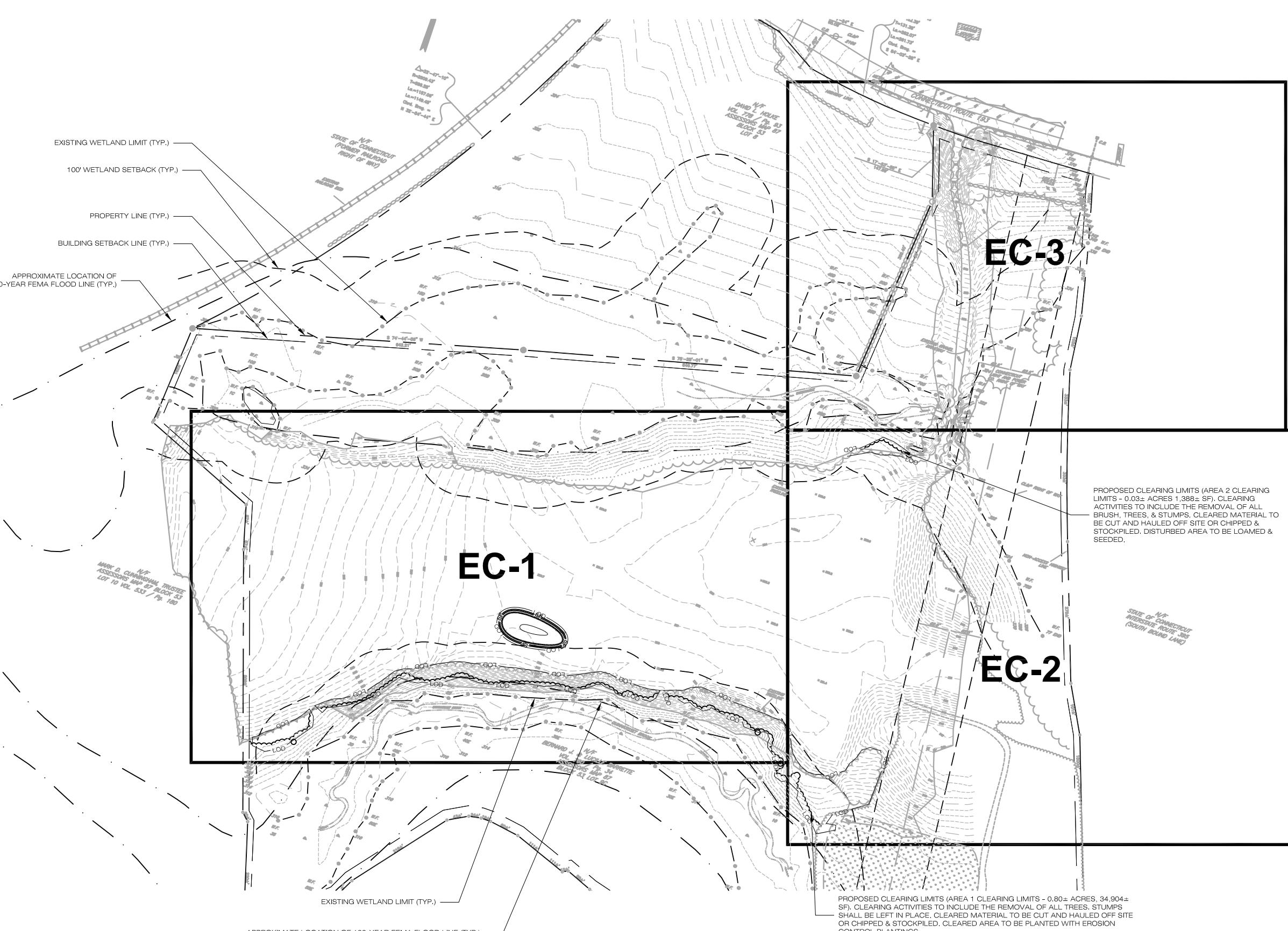
SHEET TITLE:
**OVERALL
SEDIMENTATION &
EROSION CONTROL PLAN
(PHASE 1)**

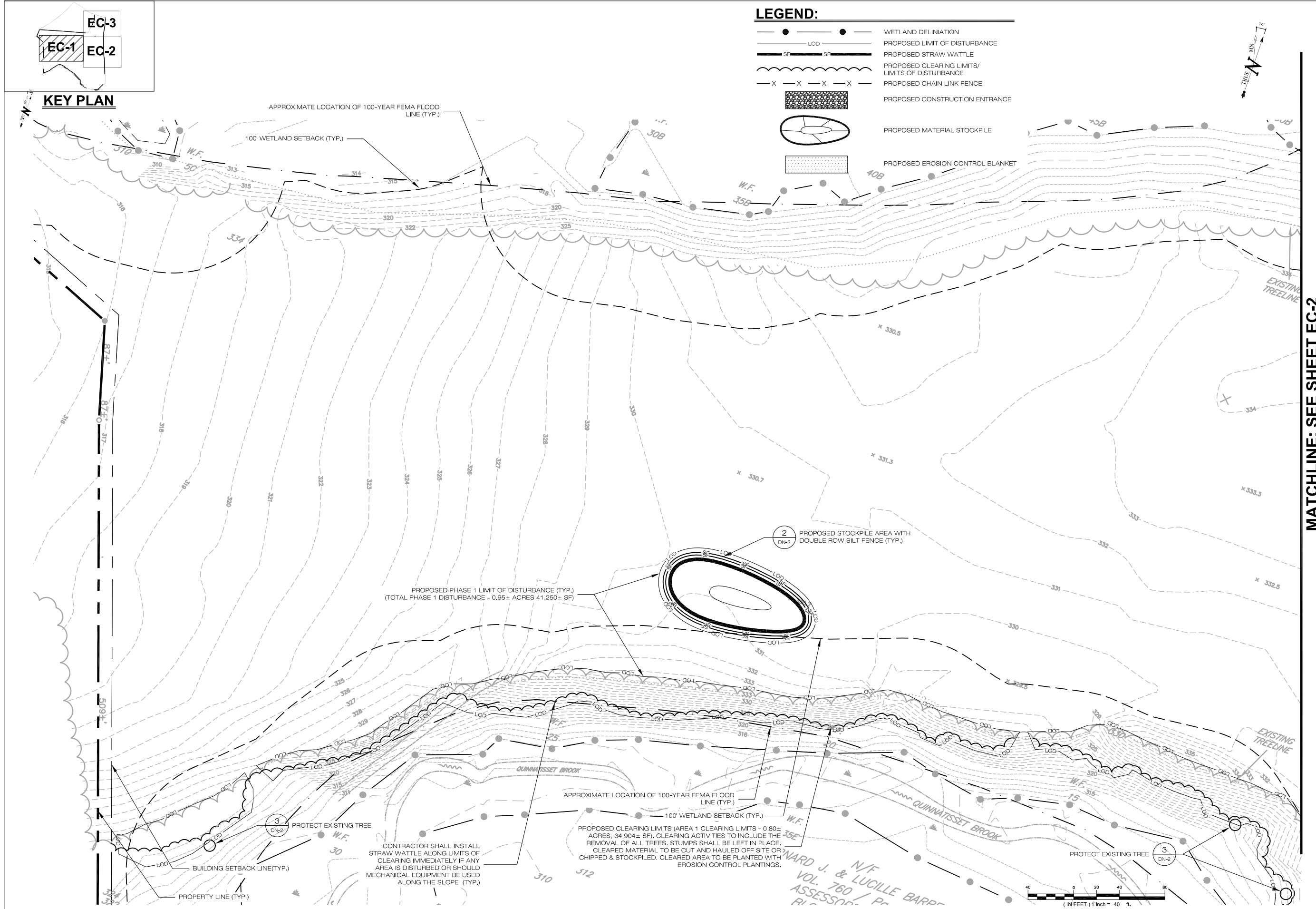
SHEET NUMBER:



EC-0

100 0 50 100 200
(IN FEET) 1 inch = 100 ft.





D C-TECSOLAR
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BLOOMFIELD, CT 06002
OFFICE: (860)-580-7174

DATE	REVISION
7/11/16	CSC SUBMISSION
1/30/16	D&M PLAN - PHASE 1

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P: ALL-POINTS TECHNOLOGY
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: 3 SADDLEBROOK DRIVE
KILLINGTON, CT 06419

3:

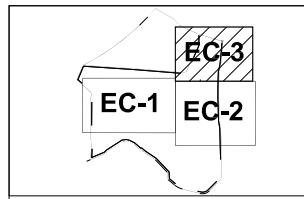
**C-TECSOLAR
"BARRETTE FARMS"**

1 BALLARD ROAD
RESS: THOMPSON, CT
FILING NUMBER: CT481111
WN BY: BJP
CKED BY: SMC
E: 07/11/16

NET TITLE:

**SEDIMENTATION &
EROSION CONTROL PLAN
(PHASE 1)**

A rectangular stamp with the text 'CE-1' in large letters. A blue ink signature is written across the center of the stamp.



KEY PLAN



MATCHLINE: SEE SHEET EC-2

LEGEND



 C-TECSOLAR

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Loomfield, CT 06002
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GWORTH, CT 06419 FAX: (860)-663-0935

DATE	REVISION
1/11/16	CSC SUBMISSION
1/30/16	D&M PLAN - PHASE 1

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1

C-TECSOLAR
"BARRETTE FARMS"

1 BALLARD ROAD
ADDRESS: THOMPSON, CT

FILING NUMBER: CT481111

WN BY: **BJP**

CKED BY: SMC

6

PROJECT TITLE:
**SEDIMENTATION &
EROSION CONTROL PLAN
(PHASE 1)**

ITEM NUMBER:

C-3 

EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL PLAN NOTES

1. THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL KEEP A COPY OF THE CURRENT GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION. ALL SEDIMENTATION AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENTATION TRAPS/BASINS, TEMPORARY DIVERSION SWALES AND ANTI-TRACKING PADS, SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.

2. THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN IN A GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO LOCAL DRAINAGE SYSTEMS AND/OR DOWNSTREAM. ACTUAL SITE CONDITIONS OF SEASONAL AND CLIMATIC CONDITIONS MAY REQUIRER ADDITIONAL CONTROLS OR CONFIGURATIONS WHEN DIRECTED BY THE ENGINEER. SEE SEDIMENT AND EROSION CONTROL DETAILS AND SUGGESTED CONSTRUCTION SEQUENCE FOR MORE INFORMATION. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.

3. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, REFERRING TO GOVERNING AUTHORITY OR STATE AND WATERS AGENCY FOR AN APPROVAL OF THE EROSION & SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED, COMPLY WITH REQUIREMENTS OF CGS SECTION 22A, 430B FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND WITH DEEP RECORD KEEPING AND INSPECTION REQUIREMENTS.

4. A BOND MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.

5. THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.2 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.

7. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.

8. ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN). SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.

9. PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE, OR AS DETAILED, WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.

10. ANTI-TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.

11. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER. STAKED HAY BALES OR SILT FENCES SHALL ALSO BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, Dewatering PUMP DISCHARGES, AND MATERIAL STOCKPILES.

12. INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, TEMPORARY SEDIMENT TRAPS/BASINS, AND Dewatering PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE STABILIZED. LOCATION OF TEMPORARY SEDIMENT TRAPS/BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND GOVERNING OFFICIAL. Dewatering SETTLING TRAPS SHALL BE USED IF GROUND WATER IS ENCOUNTERED. NO RUNOFF SHALL BE ALLOWED TO EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.

13. AS GENERAL GRADING OPERATIONS PROGRESS, THE TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED AND RELOCATED, AS CUT AND FILL SLOPES DICTATE, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT TRAPS/BASINS.

14. TEMPORARY SEDIMENT TRAPS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER DISTURBED ACRE CONTRIBUTING TO THE TRAP/BASIN PROVIDE TRAP/BASIN VOLUMES FOR ALL DISTURBANCE ON SITE.

15. PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN SEDIMENT TRAPS/BASINS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN Sumps AS NECESSARY. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY BALES AND SILT FENCE. EXCAVATED MATERIAL FROM TEMPORARY SEDIMENT TRAPS/BASINS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.

16. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE AND UNDISTURBED FOR MORE THAN 30 DAYS.

17. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEDED, AND THE ROAD SHOULDER AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.

18. DIRECT ALL Dewatering PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY SEDIMENT TRAPS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE ENGINEER.

19. BLOCK THE OPEN UPSTREAM ENDS OF DETENTION BASIN/SEDIMENT TRAP OUTLET CONTROL ORIFICES UNTIL SITE IS STABILIZED AND BLOCK END OF STORM DRAINS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY WHEN RAIN IS EXPECTED.

20. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.

21. MINIMIZE LAND DISTURBANCES, SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERNENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH A RATE OF 2 TONS PER ACRE, IF NECESSARY. REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH, MODERATELY GRADED AREAS, LANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.

22. SWEEP AFFECTED PORTIONS OF OFF-SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRICKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.

23. TURF ESTABLISHMENT SHALL BE PERFORMED OVER ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.

24. TWO WEEKS BEFORE THE FALL SEEDING SEASON BEGINS (AUGUST 15 TO OCTOBER 15), THE CONTRACTOR SHALL SCHEDULE A MEETING WITH THE ENGINEER STAFF TO DISCUSS STABILIZING THE SITE FOR WINTER MONTHS. MEASURES SUCH AS MULCHING AND/OR SEEDING MAY BE REQUIRED.

25. MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PAVING LOTS, CLEAN THE STORM DRAINAGE SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM TOWN OF THOMPSON AND/OR ENGINEER.

SEDIMENT & EROSION CONTROL NARRATIVE

- THE PROJECT INCLUDES THE CLEARING OF APPROXIMATELY 0.83 ACRES OF EXISTING WOODLAND AREA FOR THE INSTALLATION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT. THE CLEARED AREA ON THE SOUTH SIDE OF THE SITE WILL BE PLANTED WITH EROSION CONTROL PLANTINGS.
- THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:
 - CONSTRUCTION OF 11,200 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT IN TWO PHASES.
 - CONSTRUCTION OF GRAVEL ACCESS DRIVES.
 - CONSTRUCTION OF SHALLOW INFILTRATION BASIN TO COLLECT STORMWATER RUNOFF.
 - CONSTRUCTION OF A CHAIN LINK GATE.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 14.14 ACRES OF THE SITE BEING DISTURBED AND THE IMPERVIOUS AREA OF THE SITE HAS BEEN INCREASED BY A TOTAL OF 0.201 ACRES.
- THE PROJECT SITE, AS MAPPED IN THE SOIL SURVEY OF STATE OF CONNECTICUT (VERSION 14, 2015), CONTAINS TYPE A AND TYPE B SOILS. A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN COMPLETED FOR THIS PROJECT.
- THE PROJECT AREA WAS FOUND TO CONTAIN TWO WETLAND AREAS CONSISTING OF RIPARIAN CORRIDORS ASSOCIATED WITH LITTLE MOUNTAIN BROOK AND QUINNATTSAT BROOK.
- IT WILL BE IMPORTANT THAT THE EXISTING WETLAND RESOURCE AREAS BE PROTECTED DURING AND AFTER CONSTRUCTION FROM SEDIMENTATION AND POLLUTANTS TO THE EXTENT POSSIBLE. CUT AND FILL SLOPES WILL NEED TO BE STABILIZED BY VEGETATION, RIPRAPP OR EROSION CONTROL MEASURES AS SOON AS POSSIBLE. EXCAVATED SLOPES UP TO 31' OR 31' DEEP, IF LEFT UNDISTURBED, MUST BE MULCHED FOR TEMPORARY AND PERMANENT STABILIZATION. TOPSOIL AND EXCAVATED MATERIAL STOCKPILE AREAS MUST BE CONFINED BY SILT FENCE AND HAY BALES AND STABILIZED BY VEGETATION IF LEFT UNDISTURBED FOR MORE THAN 30 DAYS. Dewatering WASTEWATER FROM TRIBENCHING OPERATIONS SHALL BE ADDRESSED DURING CONSTRUCTION. ALL WATER FROM Dewatering OPERATIONS SHALL BE DIRECTED TO Dewatering PUMP SETTLING BASINS. CONSTRUCTION NEAR WETLANDS SHALL BE ISOLATED BY USE OF CONSTRUCTION FENCING OR A COFFERDAM AND THE TEMPORARY DISTURBED AREA SHALL BE KEPT TO A MINIMUM. WORK IN HIGH GROUNDWATER AREAS SHALL BE SCHEDULED, WHEN POSSIBLE, SO IT CAN BE COMPLETED IN A DRY PERIOD AND IN THE SHORTEST TIME POSSIBLE.
- IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN IN DECEMBER OF 2016 AND WILL BE COMPLETED WITHIN APPROXIMATELY 8 MONTHS.
- REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
- STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL TO THE EXTENT POSSIBLE AND PRACTICABLE FOR THIS PROJECT ON THIS SITE. EROSION AND SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- DETAILS FOR THE TYPICAL STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON PLAN SHEET DN-1 AND DN-2, OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
- CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION AREA:
 - STAGED CONSTRUCTION.
 - MINIMIZE THE DISTURBED AREAS DURING CONSTRUCTION.
 - STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE WITH TEMPORARY OR PERMANENT MEASURES.
 - MINIMIZE IMPERVIOUS AREAS.
 - UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
- THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:
 - STORMWATER MANAGEMENT REPORT FOR EXISTING AND PROPOSED PEAK FLOWS.
 - DESIGN CALCULATIONS FOR TEMPORARY SEDIMENT TRAPS DURING PHASED CONSTRUCTION.
 - DESIGN CALCULATIONS FOR STORMWATER QUALITY.

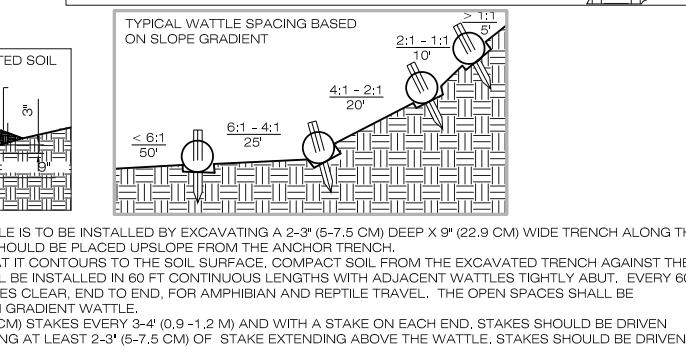
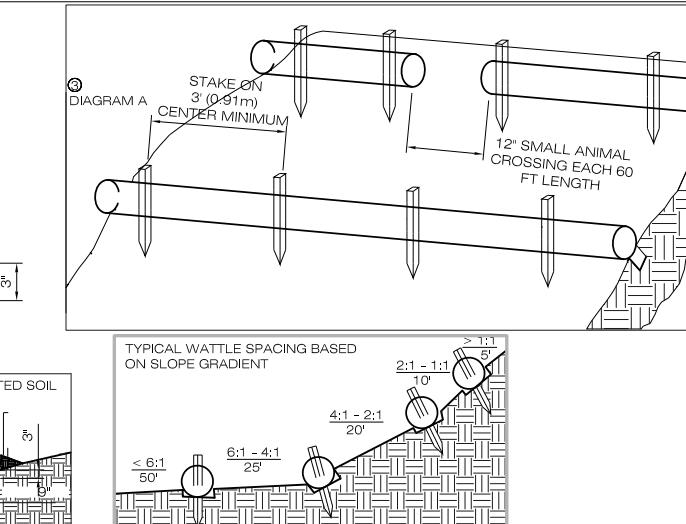
SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS.

- CONTACT THE ENGINEER TO SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF CLEARING IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING..
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- NOTIFY THE ENGINEER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT. NOTIFY CALL BEFORE YOU DIG AT 1-800-922-4455.
- REMOVE EXISTING IMPROVEMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCES.
- CLEAR AND GRUB AS REQUIRED, TO INSTALL THE EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION.
- INSTALL INFILTRATION BASINS AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
- PERFORM THE REMAINING CLEARING AND GRUBBING AS NECESSARY. REMOVE CUT WOOD AND STUMPS. CHIP BRUSH AND SLASH AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE.
- REMOVE AND STOCKPILE TOPSOIL TO ITS DESIGNATED AREA AS REQUIRED FOR CONSTRUCTION OF GRAVEL DRIVES, CONCRETE PADS AND INFILTRATION BASINS. PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AROUND THE STOCKPILE. TEMPORARILY SEED THE STOCKPILE WHEN STOCKPILING IS COMPLETED OR IF IT WILL NOT BE DISTURBED FOR THIRTY (30) DAYS OR MORE.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
- INSTALL ELECTRICAL CONDUIT.
- EXCAVATE AND ROUGH GRADE GRAVEL ACCESS DRIVES AND CONCRETE EQUIPMENT PADS.
- INSTALL FINAL GRAVEL COURSE ON ALL GRAVEL ACCESS DRIVES.
- INSTALL GROUND MOUNTED SOLAR PANELS.
- INSTALL PERIMETER CHAIN LINK FENCE.
- AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF THE SOLAR PANELS, COMPLETE REMAINING SITE WORK AND STABILIZE ALL DISTURBED AREAS.
- FINE GRADE, RAKE, SEED AND MULCH ALL REMAINING DISTURBED AREAS.
- AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE ENGINEER, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.

CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR

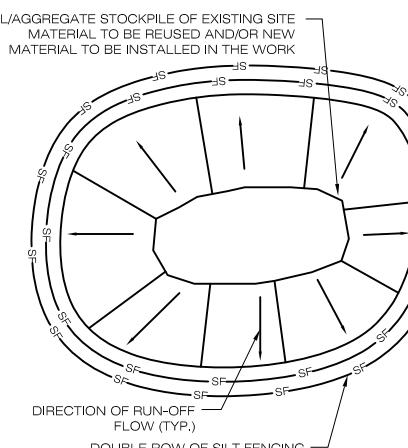
E&S MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
STRAW WATTLE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE BALE.
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TOPSOIL/BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
WATER BARS	DAILY	REPAIR/RESHAPE AS NECESSARY. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE WATER BAR.
TEMPORARY DIVERSION DITCHES	DAILY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/RESHAPE AS NECESSARY. REVIEW CONDITIONS IF REPETITIVE FAILURES OCCUR.
TEMPORARY SEDIMENT TRAPS/BASINS	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REMOVE SEDIMENT WHEN IT REACHES 1/2 OF THE MINIMUM REQUIRED WET STORAGE VOLUME.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.
TREE PROTECTION	WEEKLY	REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED.



1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. WATTLES SHALL BE INSTALLED IN 60 FT CONTINUOUS LENGTHS WITH ADJACENT WATTLES TIGHTLY BUT, EVERY 60 FT THE WATTLE ROW SHALL BE SPACED 12 INCHES CLEAR, END TO END, FOR AMPHIBIAN AND REPTILE TRAVEL. THE OPEN SPACES SHALL BE STAGGERED MID LENGTH OF THE NEXT DOWN GRADIENT WATTLE.
3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3'-4' (0.9-1.2 M) AND WITH A STAKE ON EACH END, STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE, STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

1 STRAW WATTLE SEDIMENTATION CONTROL BARRIER

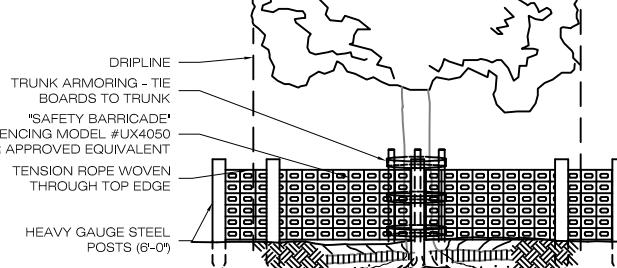
DN-2 SCALE : NTS



NOTES:
1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.
3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.
4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

2 MATERIALS STOCKPILE DETAIL

DN-2 SCALE : NTS



3 TREE PROTECTION

DN-2 SCALE : NTS

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NO DATE REVISION
0 07/11/16 CSC SUBMISSION
1 11/30/16 D&M PLAN - PHASE 1
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DESIGN PROFESSIONALS OF RECORD
PROF: BRADLEY J. PARSONS P.E.<br