



VOLUME TWO to:

Petition of BNE Energy Inc.

for a Declaratory Ruling for the Location, Construction and Operation

**of a 4.8 MW Wind Renewable Generating Project on Winsted-Norfolk Road in Colebrook,
Connecticut ("Wind Colebrook North")**

December 13, 2010

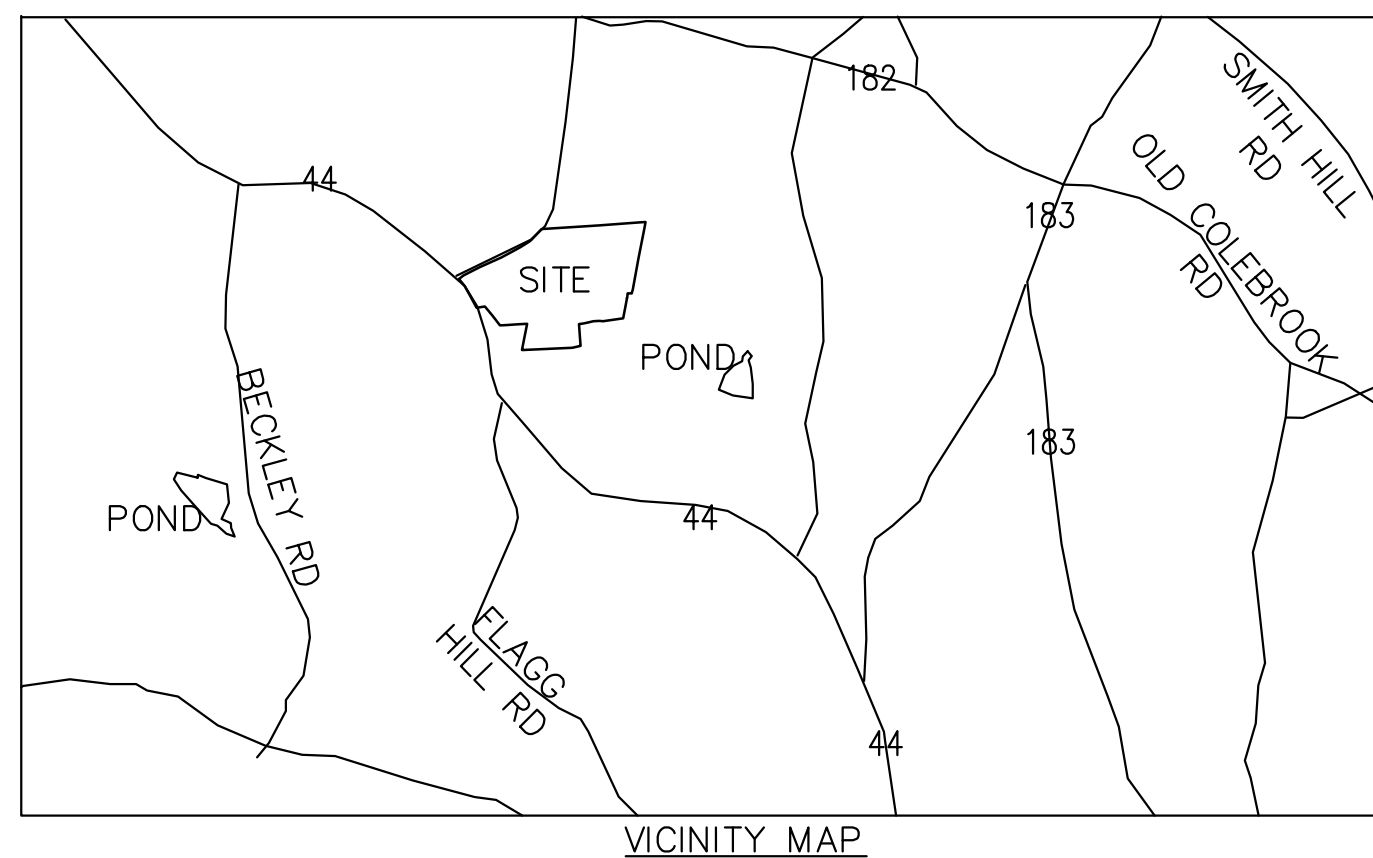
EXHIBITS

Site Plans.....	Exhibit F
Storm Water Management Plan	Exhibit G
Soil Erosion and Sedimentation Control Plan	Exhibit H

EXHIBIT F

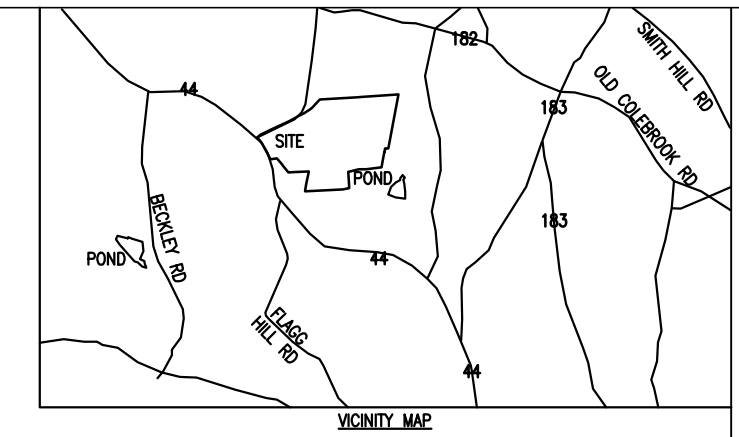
WIND COLEBROOK NORTH

WINSTED-NORFOLK ROAD COLEBROOK, CONNECTICUT



CONNECTICUT
SITING COUNCIL
SUBMISSION

BNE ENERGY
29 SOUTH MAIN STREET
TOWN CENTER SUITE 200
WEST HARTFORD, CT 06107



BNE Energy Inc.
Producer of green clean energy



INDEX OF DRAWINGS

SHEET NUMBER	TITLE
1	G-000 COVER SHEET AND DRAWING INDEX
2	C-001 ABUTTERS MAP
3	C-002 SITE PLAN WITH AERIAL IMAGERY
4	C-003 CLEARING LIMITS PLAN
5	C-100 OVERALL SITE PLAN
6	C-101 TURBINE LOCATION ONE AND CRANE ASSEMBLY AREA SITE PLAN
7	C-102 TURBINE LOCATION TWO SITE PLAN
8	C-103 TURBINE LOCATION THREE SITE PLAN
9	C-200 OVERALL EROSION CONTROL PLAN
10	C-201 TURBINE LOCATION ONE AND CRANE ASSEMBLY AREA EROSION CONTROL PLAN
11	C-202 TURBINE LOCATION TWO EROSION CONTROL PLAN
12	C-203 TURBINE LOCATION THREE EROSION CONTROL PLAN
13	C-204 CRANE ROAD STA: 0+00 TO 17+00 EROSION CONTROL PLAN
14	C-300 OVERALL GRADING PLAN
15	C-301 TURBINE LOCATION ONE AND CRANE ASSEMBLY AREA GRADING PLAN
16	C-302 TURBINE LOCATION TWO GRADING PLAN
17	C-303 TURBINE LOCATION THREE GRADING PLAN
18	C-304 CRANE ROAD PLAN AND PROFILE STA: 0+00 TO 11+00
19	C-305 CRANE ROAD PLAN AND PROFILE STA: 11+00 TO 21+10
20	C-306 NEW ACCESS ROAD PLAN AND PROFILE STA: 0+00 TO 4+43
21	C-307 OVERALL POST CONSTRUCTION GRADING PLAN
22	C-308 TURBINE LOCATION ONE AND CRANE ASSEMBLY AREA POST CONSTRUCTION GRADING PLAN
23	C-309 TURBINE LOCATION TWO POST CONSTRUCTION GRADING PLAN
24	C-310 TURBINE LOCATION THREE POST CONSTRUCTION GRADING PLAN
25	C-311 CRANE ROAD STA: 0+00 TO 17+00 POST CONSTRUCTION GRADING PLAN
26	C-312 UPLAND MEADOW (CREATION AND RESTORATION) AND WETLAND RESTORATION PLAN
27	C-313 TURBINE LOCATION ONE AND CRANE ASSEMBLY AREA UPLAND MEADOW (CREATION AND RESTORATION) AND WETLAND RESTORATION PLAN
28	C-314 TURBINE LOCATION TWO UPLAND MEADOW (CREATION AND RESTORATION) AND WETLAND RESTORATION PLAN
29	C-315 TURBINE LOCATION THREE UPLAND MEADOW (CREATION AND RESTORATION) AND WETLAND RESTORATION PLAN
30	C-316 CRANE ROAD STA: 0+00 TO 17+00 UPLAND MEADOW (CREATION AND RESTORATION) AND WETLAND RESTORATION PLAN
31	C-500 EROSION CONTROL NOTES
32	C-501 EROSION CONTROL DETAILS
33	C-502 EROSION CONTROL DETAILS
34	C-503 EROSION CONTROL DETAILS
35	C-504 GENERAL DETAILS
36	E-101 ELECTRICAL - SITE PLAN
37	E-501 ELECTRICAL - RISER DIAGRAM

MARK	DESCRIPTION	DATE	TLC	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10		

DESIGNED BY:	DATE:	12/01/10
DRAWN BY:	CHKD BY:	
REVISED BY:	TLC:	
SUBMITTED BY:	BNE ENERGY	
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WIND COLEBROOK NORTH
WINSTED-NORFOLK ROAD
COLEBROOK, CONNECTICUT
COVER SHEET AND DRAWING INDEX

SHEET
IDENTIFICATION
G-000

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

1

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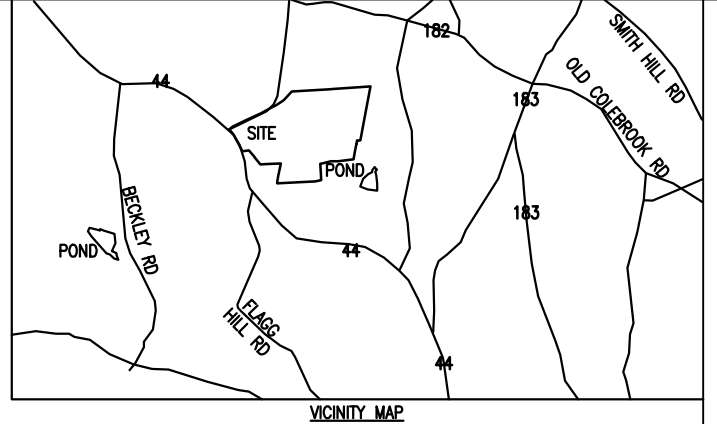
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D

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B

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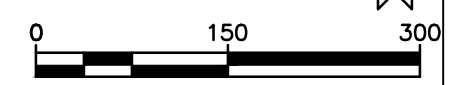
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ZAPATA
 6502 LAWRENCE ROAD, SUITE 300, WOODBURY, CT 06798
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WIND COLEBROOK NORTH
 WIND-NOFOLK ROAD
 COLEBROOK, CONNECTICUT

ABUTTERS MAP

NOTE:
 ABUTTERS MAP IS DERIVED FROM SURVEY CONDUCTED
 APRIL 1983 BY KENNETH S. RYAN, REGISTERED LAND
 SURVEYOR, STATE OF CONNECTICUT AND CIVIL 1 CIVIL
 ENGINEERS CORNERSTONE PROFESSIONAL PARK SUITE
 D-101 43 SHERMAN HILL ROAD WOODBURY, CT 06798

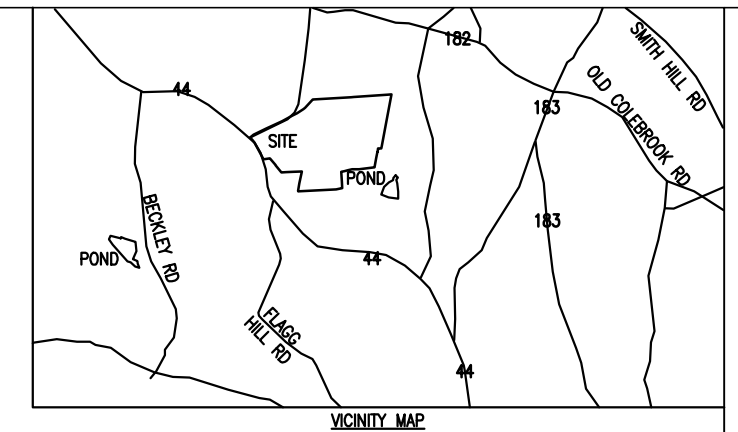


SHEET
 IDENTIFICATION
C-001

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

GENERAL NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS, LOCAL REQUIREMENTS AND GOVERNMENT REQUIREMENTS.
- 2. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE SIX INCHES OF TOPSOIL AND SHALL BE SEEDED, UNLESS OTHERWISE NOTED.
- D 3. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS.
- 4. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE INDICATED.
- 5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AS SOON AS PRACTICABLE.
- 6. IN THE EVENT THAT SUSPECTED CONTAMINATED SOILS ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 7. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. CONTRACTOR SHALL DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.
- 8. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR.
- C 9. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY. ALL PAVEMENT, DITCHES, CURB AND GUTTER, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, FENCES, ETC. DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR RESTORED.
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- 18. SOLID WASTES (EXCLUDING CLEARING DEBRIS) SHALL BE PLACED IN CONTAINERS WHICH ARE EMPTIED ON A REGULAR SCHEDULE. HANDLING, STORAGE, AND DISPOSAL SHALL BE CONDUCTED TO PREVENT CONTAMINATION. SEGREGATION MEASURES SHALL BE EMPLOYED SO THAT NO HAZARDOUS OR TOXIC WASTE WILL BECOME CO-MINGLED WITH SOLID WASTE. THE CONTRACTOR SHALL TRANSPORT SOLID WASTE OFF SITE AND DISPOSE OF IT IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS FOR SOLID WASTE DISPOSAL. A SUBTITLE D RCRA PERMITTED LANDFILL SHALL BE THE MINIMUM ACCEPTABLE OFFSITE SOLID WASTE DISPOSAL OPTION. THE CONTRACTOR SHALL VERIFY THAT THE SELECTED TRANSPORTERS AND DISPOSAL FACILITIES HAVE THE NECESSARY PERMITS AND LICENSES TO OPERATE. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THE USE OF LANDFILL AREAS.
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- 20. THE CONTRACTOR SHALL MONITOR CONSTRUCTION ACTIVITIES TO PREVENT POLLUTION OF SURFACE AND GROUND WATERS AND SHALL COMPLY WITH THE CLEAN WATER ACT SECTION 404 REGULATIONS.
- A 21. CONTRACTOR SHALL ESTABLISH AND VERIFY POINT OF BEGINNING (P.O.B) AND STAKE SITE AS INDICATED ON CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
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LEGEND

- P L PROJECT BOUNDARY LINE
- EXISTING VEGETATION
- WETLAND LIMITS
- POST CONSTRUCTION VEGETATION BOUNDARY
- COMPACTED FILL
- WETLANDS
- GRAVEL

LAYOUT AND MATERIALS NOTES

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AREA TO BE CLEARED - 411842 SQ. FT. / 9.45 ACRES
 AREA WITHIN 100' WETLAND OFFSET - 77199 SQ. FT. / 1.77 ACRES

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
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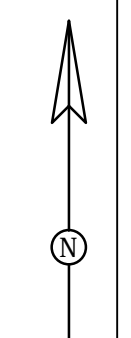
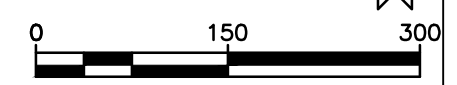
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DRAWN BY:	CHKD BY:	TKL
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SUBMITTED BY:	BNE ENERGY	
PLOT SCALE:	AS SHOWN	
FILE NUMBER:	1385	
FILE NAME:		

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WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT

SITE PLAN WITH AERIAL IMAGERY

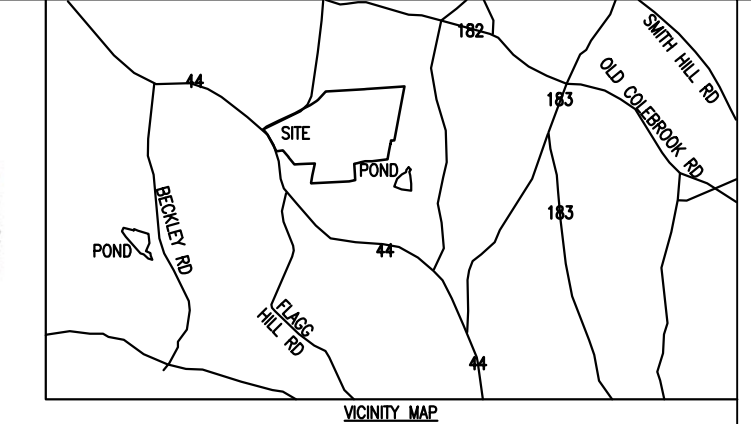
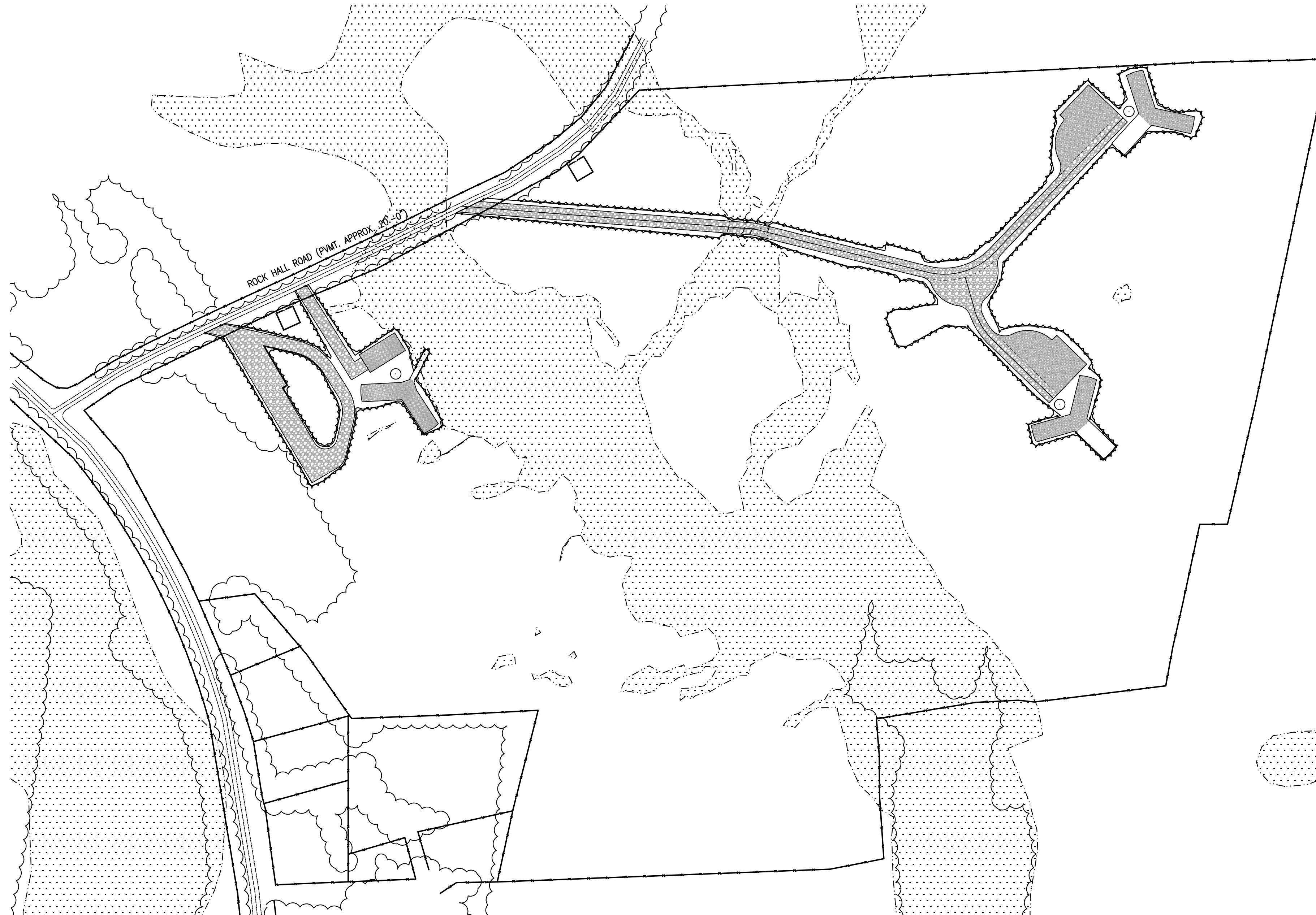
SHEET IDENTIFICATION
C-002



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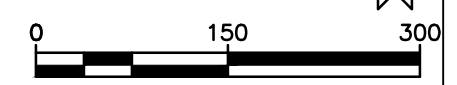
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 PROJECT MANAGEMENT
 6002 WARREN ROAD
 4600 PHONE: (704) 356-8640
 4600 FAX: (704) 356-8640
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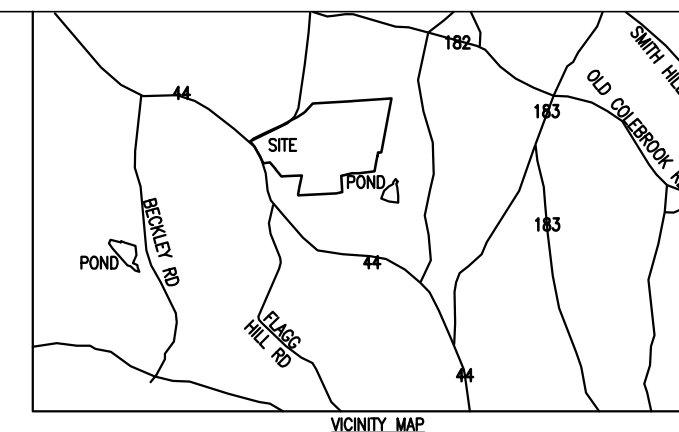
WIND COLEBROOK NORTH
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 COLEBROOK, CONNECTICUT
 CLEARING LIMITS PLAN

SHEET IDENTIFICATION
C-003



GENERAL NOTES

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- CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. CONTRACTOR SHALL DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES, AND STATUTES.
- DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR.
- CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY. ALL PAVEMENT, DITCHES, CURB AND GUTTER, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, FENCES, ETC. DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR RESTORED.
- ALL ON SITE VEHICLE TRANSPORTATION ROUTES SHALL BE TEMPORARILY STABILIZED WITH STONE IMMEDIATELY AFTER GRADING TO PROVIDE READY ACCESS FOR EMERGENCY VEHICLES TO TRAVEL THROUGH AND AROUND THE CONSTRUCTION SITE DURING BOTH DRY AND WET WEATHER.
- EXCESS EXCAVATION MATERIAL SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR OR IN ON SITE AREAS APPROVED BY THE OWNER. NO SPOILS SHALL BE STORED ON SITE BEYOND SUBSTANTIAL COMPLETION.
- DEWATERING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND SEQUENCING OF DEMOLITION AS DESCRIBED BY THESE DOCUMENTS AND SPECIFICATIONS. CONTRACTOR IS TO OBTAIN ALL PERMITS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DEMOLITION OR RELOCATION WITH APPLICABLE UTILITY COMPANIES, IE, GAS, CABLE, POWER, TELEPHONE, WATER, SEWER, ETC.
- EQUIPMENT OPERATION, ACTIVITIES, OR PROCESSES PERFORMED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH ALL FEDERAL AND STATE AIR EMISSION AND PERFORMANCE LAWS AND STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- BURNING WILL NOT BE ALLOWED ON THE PROJECT SITE UNLESS AUTHORIZED IN WRITING BY THE OWNER, THE SPECIFIC TIME, LOCATION AND MANNER OF BURNING SHALL BE SUBJECT TO APPROVAL.
- SOLID WASTES (EXCLUDING CLEARING DEBRIS) SHALL BE PLACED IN CONTAINERS WHICH ARE EMPTIED ON A REGULAR SCHEDULE. HANDLING, STORAGE, AND DISPOSAL SHALL BE CONDUCTED TO PREVENT CONTAMINATION. SEGREGATION MEASURES SHALL BE EMPLOYED SO THAT NO HAZARDOUS OR TOXIC WASTE WILL BECOME CO-MINGLED WITH SOLID WASTE. THE CONTRACTOR SHALL TRANSPORT SOLID WASTE OFF SITE AND DISPOSE OF IT IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS FOR SOLID WASTE DISPOSAL. A SUBTITLE D RCRA PERMITTED LANDFILL SHALL BE THE MINIMUM ACCEPTABLE OFFSITE SOLID WASTE DISPOSAL OPTION. THE CONTRACTOR SHALL VERIFY THAT THE SELECTED TRANSPORTERS AND DISPOSAL FACILITIES HAVE THE NECESSARY PERMITS AND LICENSES TO OPERATE. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THE USE OF LANDFILL AREAS.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL MARK THE AREAS THAT NEED NOT BE DISTURBED UNDER THIS CONTRACT. ISOLATED AREAS WITHIN THE GENERAL WORK AREA WHICH ARE NOT TO BE DISTURBED SHALL BE MARKED OR FENCED. MONUMENTS AND MARKERS SHALL BE PROTECTED BEFORE CONSTRUCTION OPERATIONS COMMENCE.
- THE CONTRACTOR SHALL MONITOR CONSTRUCTION ACTIVITIES TO PREVENT POLLUTION OF SURFACE AND GROUND WATERS AND SHALL COMPLY WITH THE CLEAN WATER ACT SECTION 404 REGULATIONS.
- CONTRACTOR SHALL ESTABLISH AND VERIFY POINT OF BEGINNING (P.O.B) AND STAKE SITE AS INDICATED ON CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF BUILDING, OR CENTERLINE UNLESS OTHERWISE NOTED.
- ALL DETAILS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.



LEGEND

	PROPERTY BOUNDARY LINE
	EXISTING VEGETATION
	WETLAND LIMITS
	POST CONSTRUCTION VEGETATION BOUNDARY
	COMPACTED FILL
	WETLANDS
	GRAVEL

LAYOUT AND MATERIALS NOTES

- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS AND EXISTING GROUND ELEVATIONS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

AREA TO BE CLEARED - 411842 SQ. FT. / 9.45 ACRES
 AREA WITHIN 100' WETLAND OFFSET - 77199 SQ. FT. / 1.77 ACRES

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.

MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:	12-01-10
DRAWN BY:	CHKD BY:	TLK
REVISION:	DATE:	
FILE NUMBER:	FILE NUMBER:	1385
FILE NAME:	FILE NAME:	

ZAPATA
 6502 LAWRENCE ROAD, SUITE 200, WESTPORT, CT 06880
 TEL: 860.426.1234 FAX: 860.426.1235
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 OVERALL SITE PLAN

SHEET IDENTIFICATION
C-100

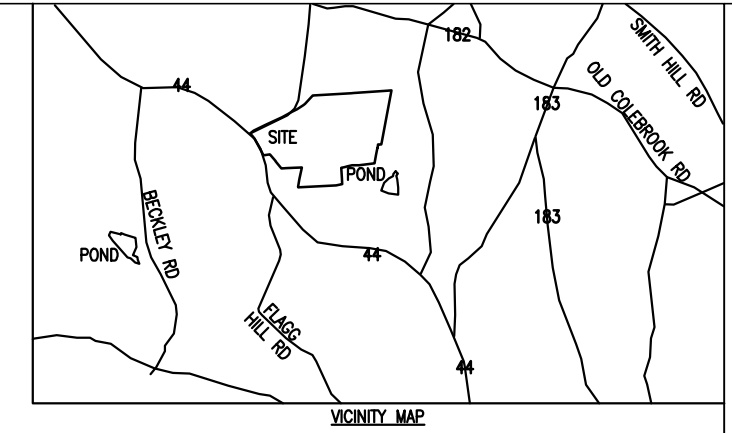
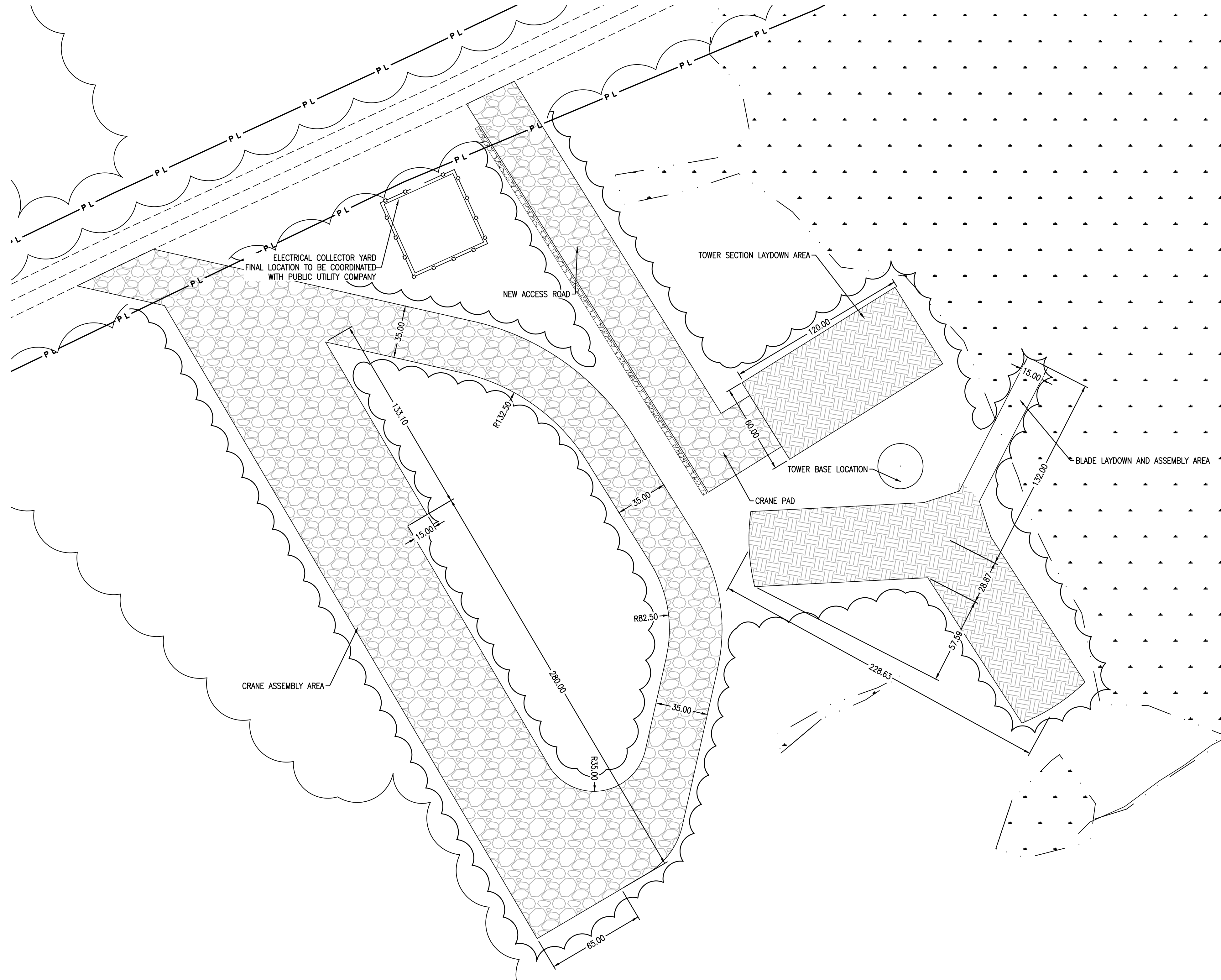


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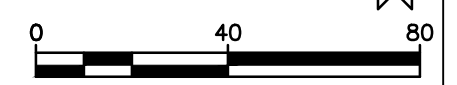
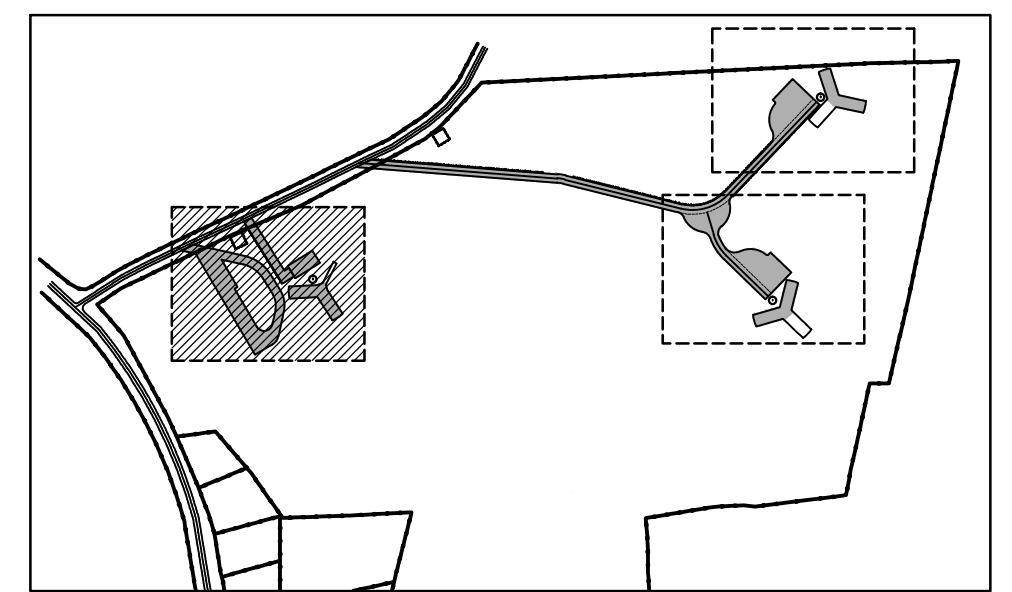
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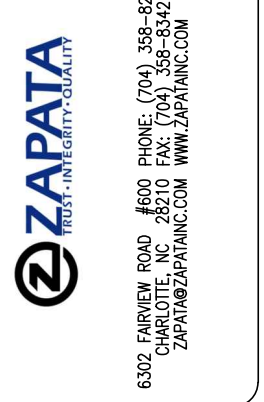
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	EXISTING VEGETATION
	WETLAND LIMITS
	POST CONSTRUCTION VEGETATION BOUNDARY
	COMPACTED FILL
	WETLANDS
	GRAVEL

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
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DESIGNED BY:	DATE:
DRAWN BY:	12-01-10
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FILE NUMBER:	
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WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION ONE AND
 CRANE ASSEMBLY AREA SITE PLAN

SHEET IDENTIFICATION
C-101

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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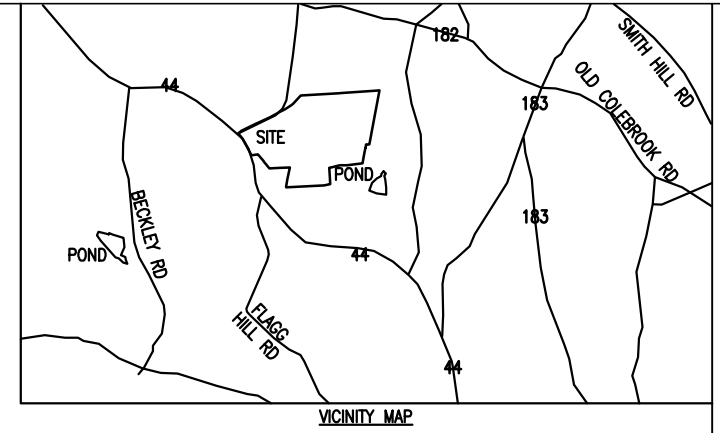
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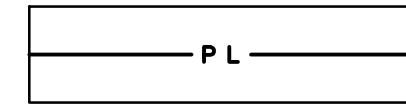
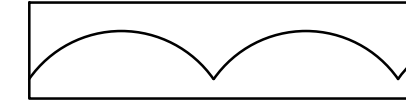
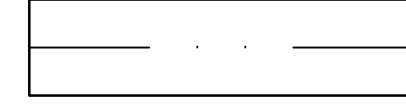
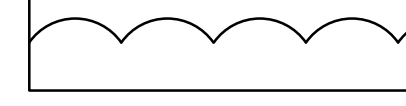

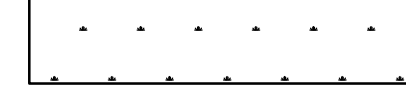

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LEGEND

-  P.L. PROPERTY BOUNDARY LINE
-  EXISTING VEGETATION
-  WETLAND LIMITS
-  POST CONSTRUCTION VEGETATION BOUNDARY
-  COMPACTED FILL
-  WETLANDS
-  GRAVEL

MARK	DESCRIPTION	DATE	TLC	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10		

DESIGNED BY:	DATE:
RSW	12-01-10

CHK BY:	TLC:
TKL	

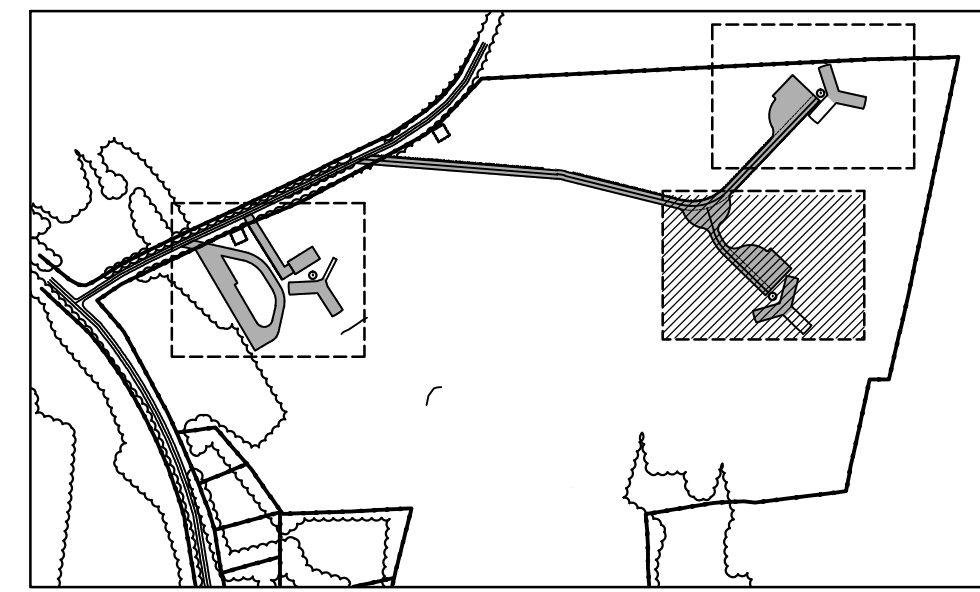
SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385

PLOT SCALE:	AS SHOWN	FILE NAME:
AS SHOWN	12-01-10	1385

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 FAIRVIEW, CT 06424
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 FAX: (781) 356-8242
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WIND COLEBROOK NORTH
 WIND-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION TWO SITE PLAN

SHEET
 IDENTIFICATION
C-102



BNE Energy Inc.
 Producer of green clean energy



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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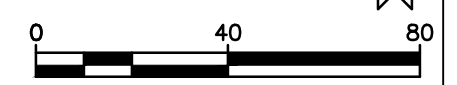
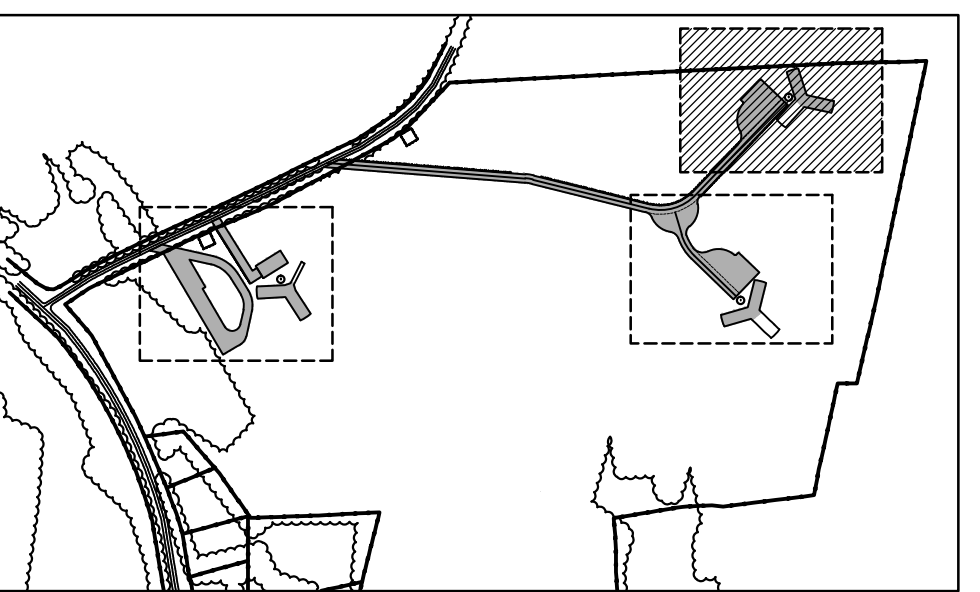
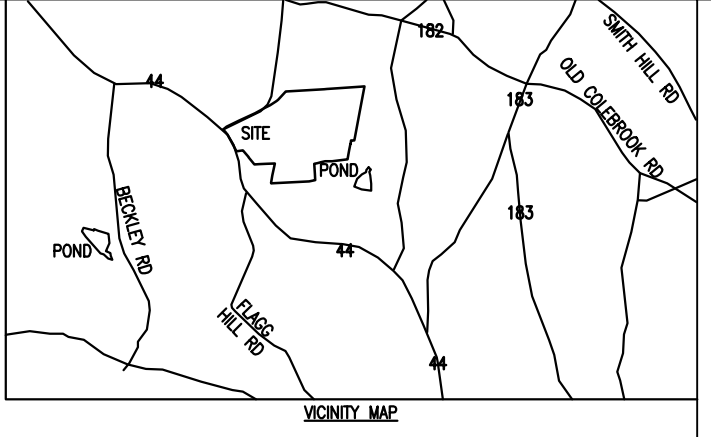
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LEGEND

	PROPERTY BOUNDARY LINE
	EXISTING VEGETATION
	WETLAND LIMITS
	POST CONSTRUCTION VEGETATION BOUNDARY
	COMPACTED FILL
	WETLANDS
	GRAVEL



MARK	DESCRIPTION	DATE	TLC	APPR.
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DRAWN BY:	12-01-10
REVISED BY:	
CHK BY:	
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SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385
PLOT SCALE:	PLOT DATE:
AS SHOWN	12-01-10
SIZE:	FILE NAME:
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 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-EST/NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION THREE SITE PLAN

SHEET IDENTIFICATION
C-103

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

CONSTRUCTION SCHEDULE:

1. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
2. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
3. APPLY SEEDING, TEMPORARY OR PERMANENT, OR OTHER TYPES OF STABILIZATION AS REQUIRED AS SOON AS GRADED AREAS ARE COMPLETE OR WHERE WORK STOPS.
4. COMPLETE FINE GRADING.
5. PREPARE ALL DISTURBED AREAS FOR SEEDING AND GROUND COVER.
6. APPLY PERMANENT SEEDING AND GROUND COVER.
7. AFTER SITE IS STABILIZED AND APPROVALS RECEIVED, ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED AND THOSE DISTURBED AREAS SHALL BE SEEDED.
8. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
9. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
10. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED.

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.
3. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
4. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 21 DAYS.
5. ALL SEEDED AREAS SHALL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATION TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

TREE PROTECTION NOTES:

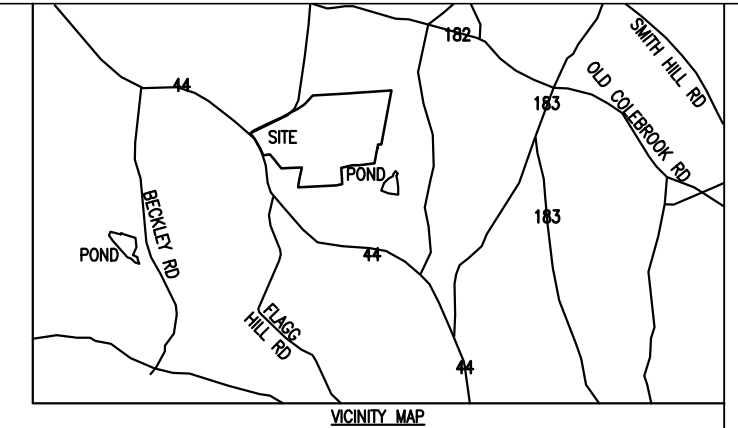
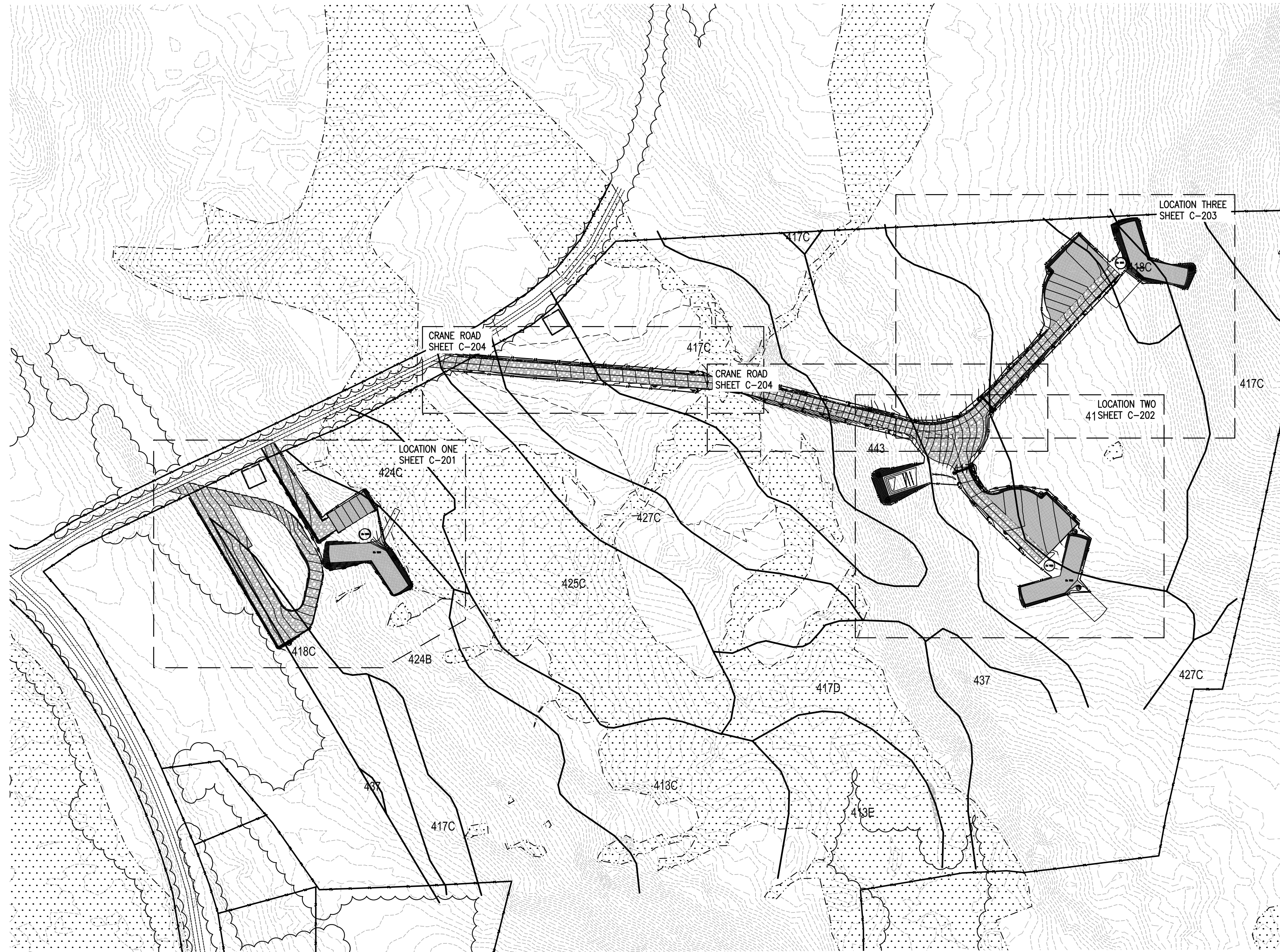
1. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING, OR CONSTRUCTION, AND NOT REMOVED UNTIL AFTER FINAL INSPECTION BY URBAN FORESTRY STAFF.
2. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN TREE PROTECTION AREAS, EXCEPT AS SHOWN ON APPROVED PLANS.
3. VIOLATIONS OF TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR IMMEDIATE CORRECTIVE ACTION/MITIGATION.
4. BEFORE GRADING, CLEARING OR CONSTRUCTION BEGINS, CONTACT FORT BRAGG ENVIRONMENTAL FOR INSPECTION OF TREE BARRICADES.
5. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SPOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
6. BRUSH VINES, AND SMALL TREES (8" DIAMETER, OR AS SMALL AS 2 IN. CALIPER) MAY BE HAND CLEARED ONLY AND CUT FLUSH WITH GROUND SURFACE. EXISTING TREES MAY BE LIMBED UP 6 FEET (LEAVING AT LEAST 2/3 OF THE BRANCHES TO IMPROVE VISIBILITY).
7. EXPOSED TREE ROOTS MUST BE CLEANLY CUT WITH A SHARP PRUNING TOOL; BACKFILL AS SOON AS POSSIBLE TO MINIMIZE EXPOSURE TO THE AIR.
8. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE IN THE SETBACK.

EROSION CONTROL NOTES:

1. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE.
2. MAXIMUM GRADED SLOPES ARE 2:1. WHEN STEEPER SLOPES MUST BE USED PLANS MUST BE SEALED BY A GEO-TECHNICAL ENGINEER FOR SLOPE STABILITY AND FINAL SURFACE STABILIZATION.
3. DE-WATERING OF SITE DIRECTLY INTO STREAM, WETLAND OR CREEK IS PROHIBITED.

GENERAL CONSTRUCTION NOTES:

1. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISH GRADES.
2. CONTRACTOR SHALL BLEND SMOOTHLY NEW GRADING TO EXISTING GRADE.
3. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER OR ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTIONS BEFORE PROCEEDING.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL WORK WITH CAUTION DURING EARTHWORK ACTIVITIES NEAR EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCY FOR FIELD LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE STARTING CONSTRUCTION.



LEGEND

	S F	SILT FENCE
	TP TP	TREE PROTECTION FENCE
	HB	STRAW HAY BALES
	TD TD	TEMPORARY DIVERSION
		WETLAND LIMITS
	84C 84B	SOIL TYPE BOUNDARY
	PL	PROPERTY BOUNDARY
	CP	CULVERT PIPE/SLOPE DRAIN
		ROCK CHECK DAM
	FLOW	FLOW ARROW
	TS	TEMPORARY SEEDING
	TST	TEMPORARY SEDIMENT TRAP
		RIP RAP
		COMPACTED EARTH
		GRAVEL

AREA TO BE CLEARED - 411842 SQ. FT. / 9.45 ACRES
 AREA WITHIN 100' WETLAND OFFSET - 77199 SQ. FT. / 1.77 ACRES

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:	CHK BY:	FILE NUMBER:
RSW	12-01-10	TLK	1385

ZAPATA
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 COLEBROOK, CONNECTICUT 06230
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 WWW.ZAPATAINC.COM

WIND-COLEBROOK NORTH
 WINDSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT

OVERALL EROSION CONTROL PLAN

SHEET IDENTIFICATION
C-200



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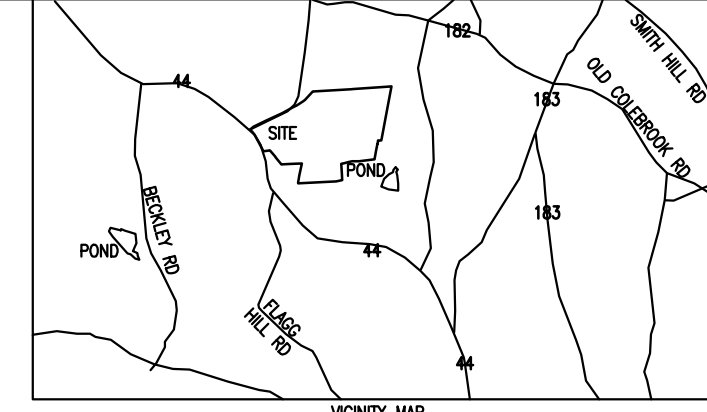
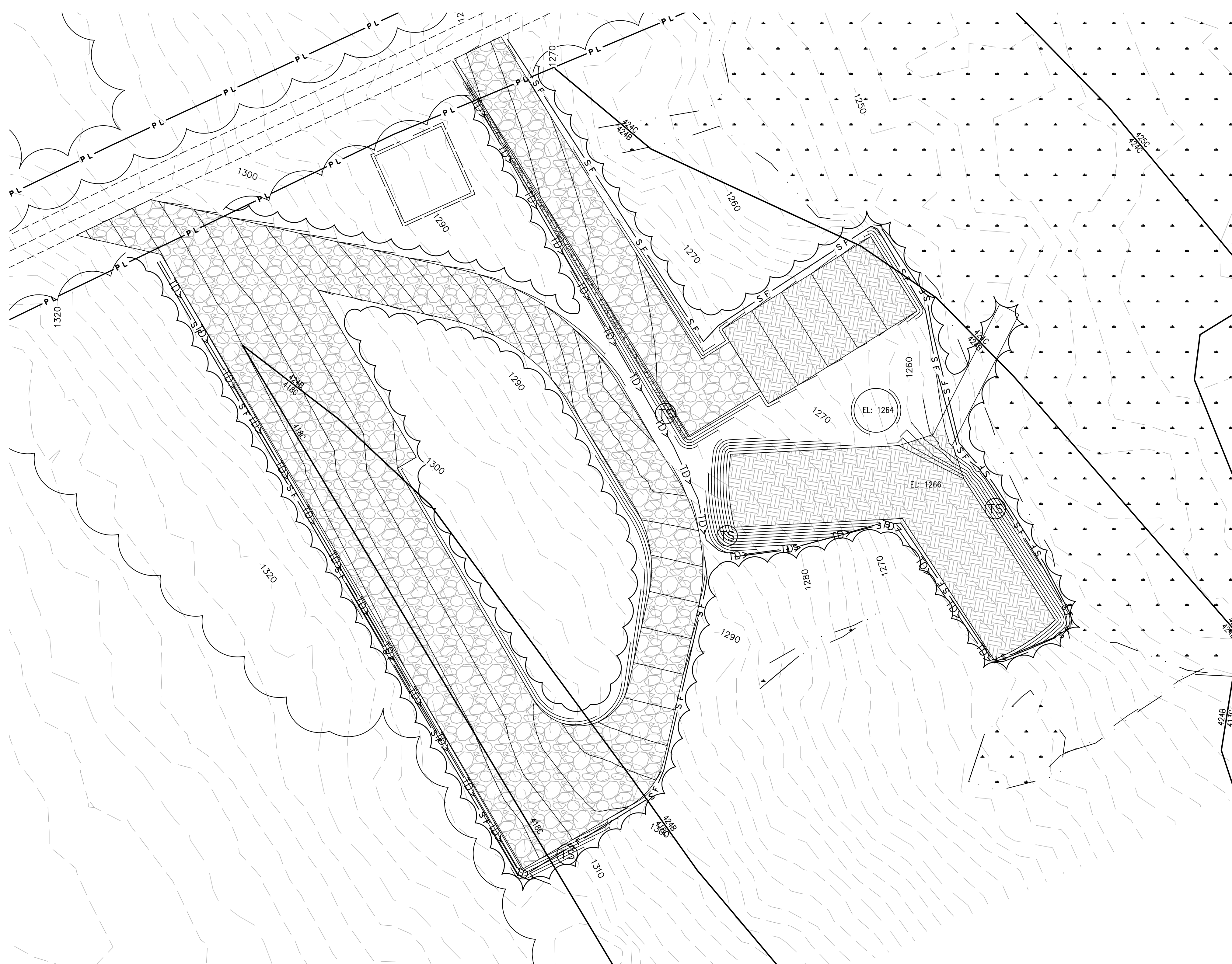
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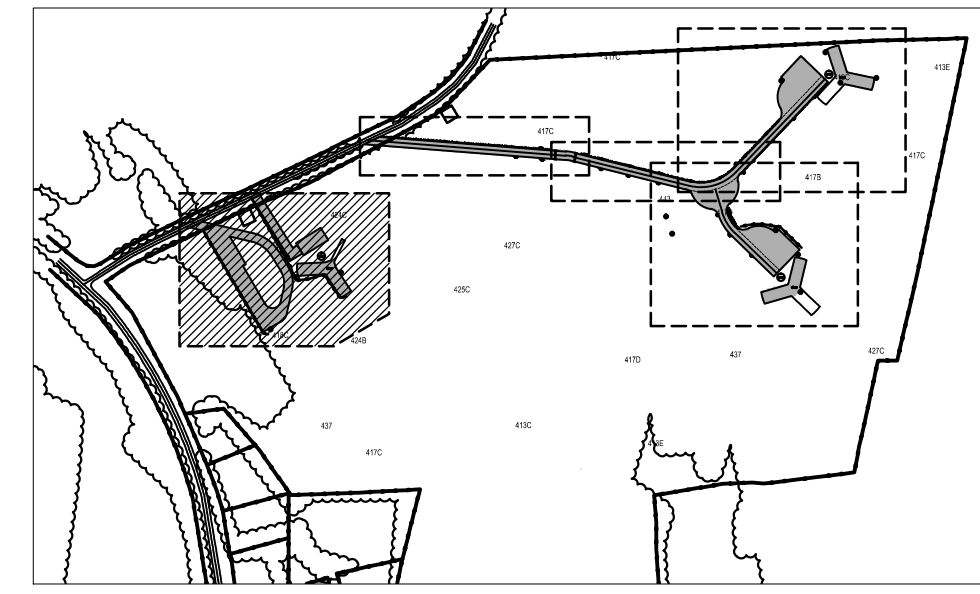
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LEGEND

	S F	SILT FENCE
	TP TP	TREE PROTECTION FENCE
	HB	STRAW HAY BALES
	TD TD	TEMPORARY DIVERSION
		WETLAND LIMITS
	84C 84B	SOIL TYPE BOUNDARY
	P L	PROPERTY BOUNDARY
	C P	CULVERT PIPE/SLOPE DRAIN
		ROCK CHECK DAM
	FLOW	FLOW ARROW
	TS	TEMPORARY SEEDING
	TST	TEMPORARY SEDIMENT TRAP
		RIP RAP
		COMPACTED EARTH
		GRAVEL

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.



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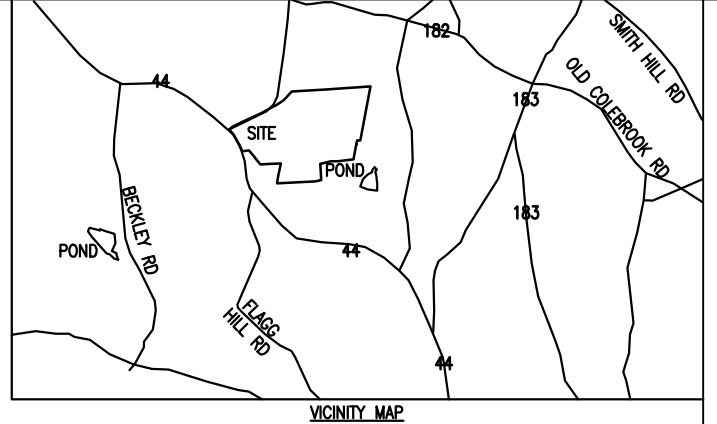
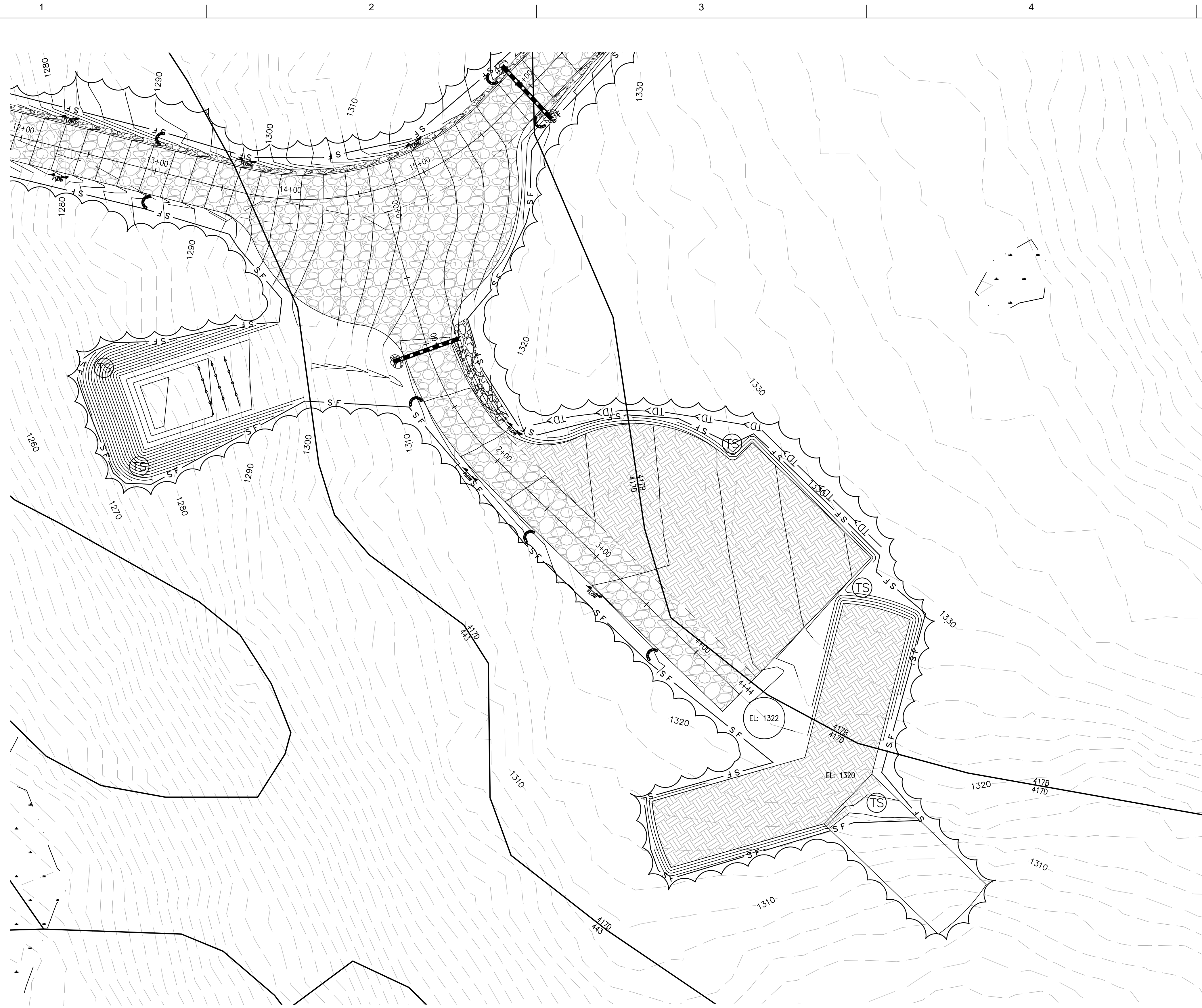
DESIGNED BY:	DATE:	CHK BY:	FILE NUMBER:
RSW	12-01-10	TLK	1385

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 6502 LAWREN ROAD, SUITE 200, WINDHAM, ME 04991
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WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION ONE AND
 CRANE ASSEMBLY AREA
 EROSION CONTROL PLAN

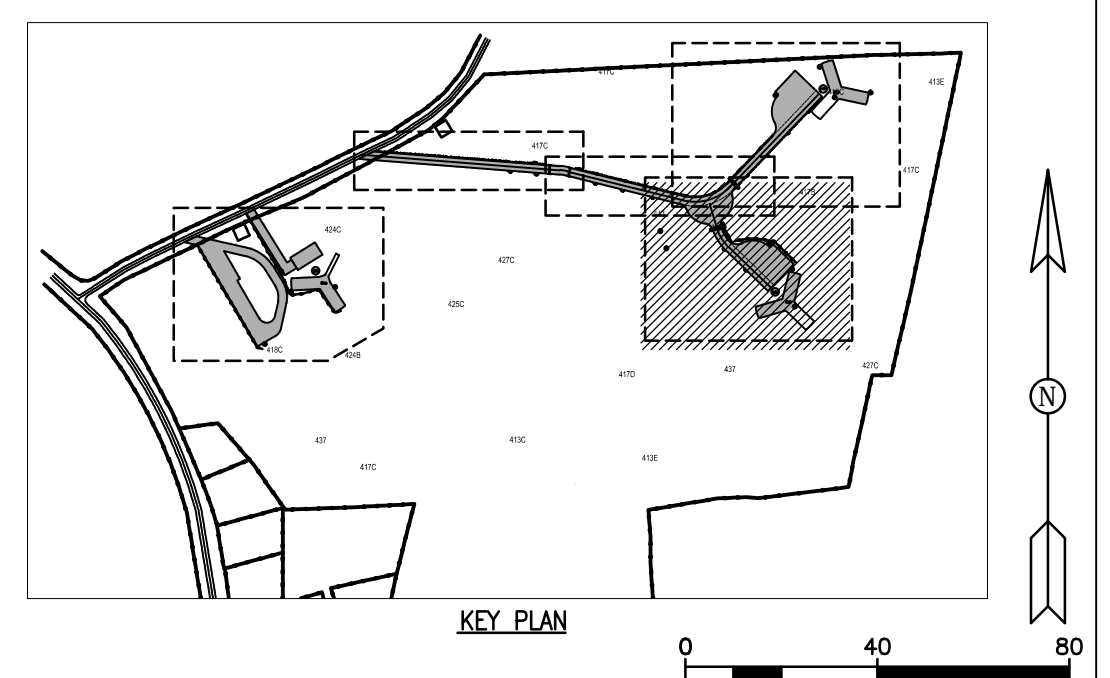
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C-201





LEGEND

	S F	SILT FENCE
	TP TP	TREE PROTECTION FENCE
	HB	STRAW HAY BALES
	TD TD	TEMPORARY DIVERSION
		WETLAND LIMITS
	84C 84B	SOIL TYPE BOUNDARY
	P L	PROPERTY BOUNDARY
	C P	CULVERT PIPE/SLOPE DRAIN
		ROCK CHECK DAM
	FLOW	FLOW ARROW
	TS	TEMPORARY SEEDING
	TST	TEMPORARY SEDIMENT TRAP
		RIP RAP
		COMPACTED EARTH
		GRAVEL
		SILT FENCE BAFFLES



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RSW	12-01-10

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TLK	1385

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WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION TWO
 EROSION CONTROL PLAN

SHEET IDENTIFICATION
C-202



A B C D

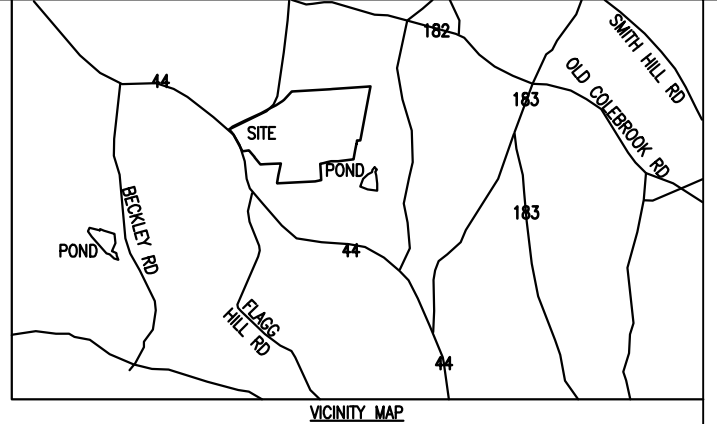
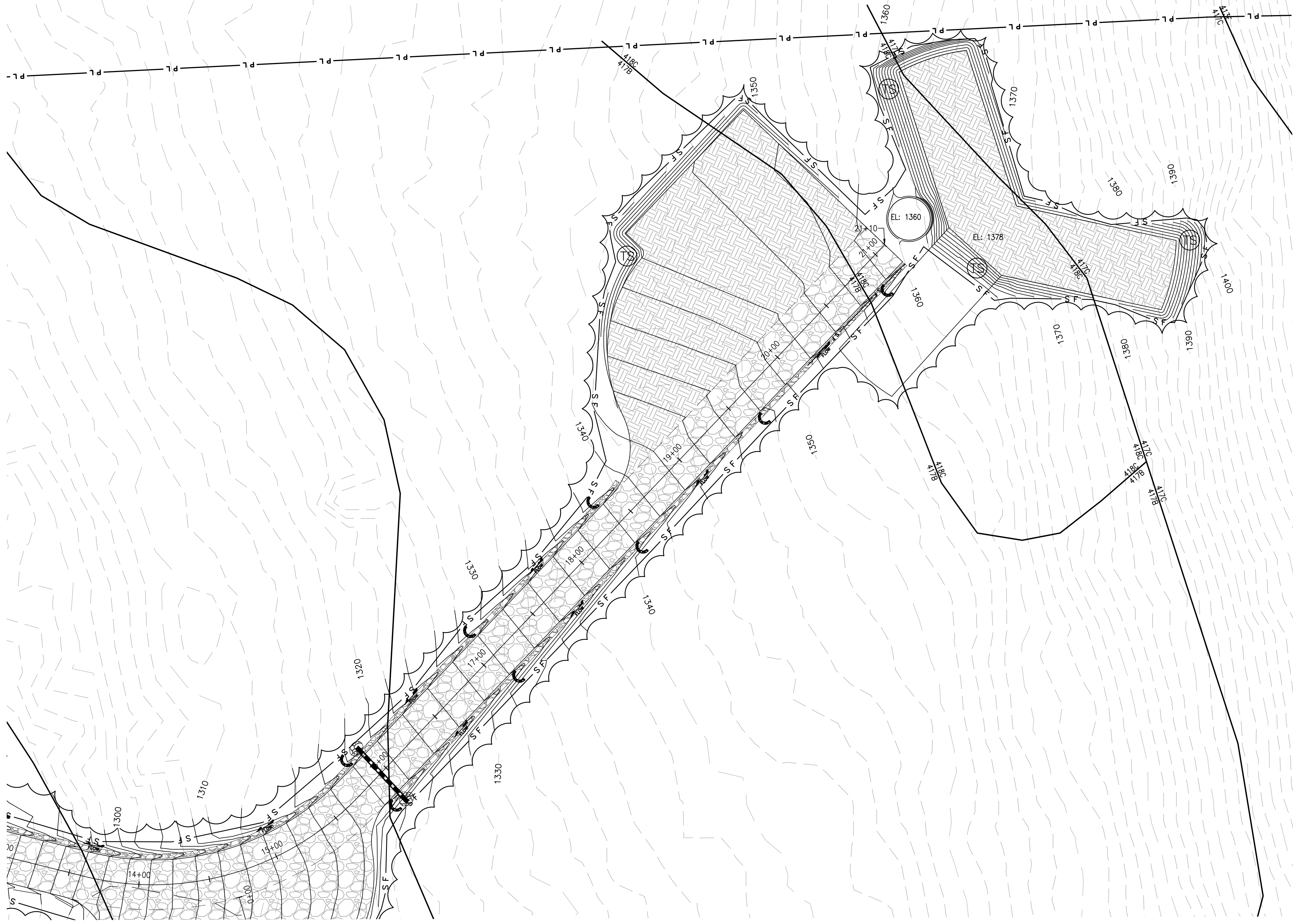
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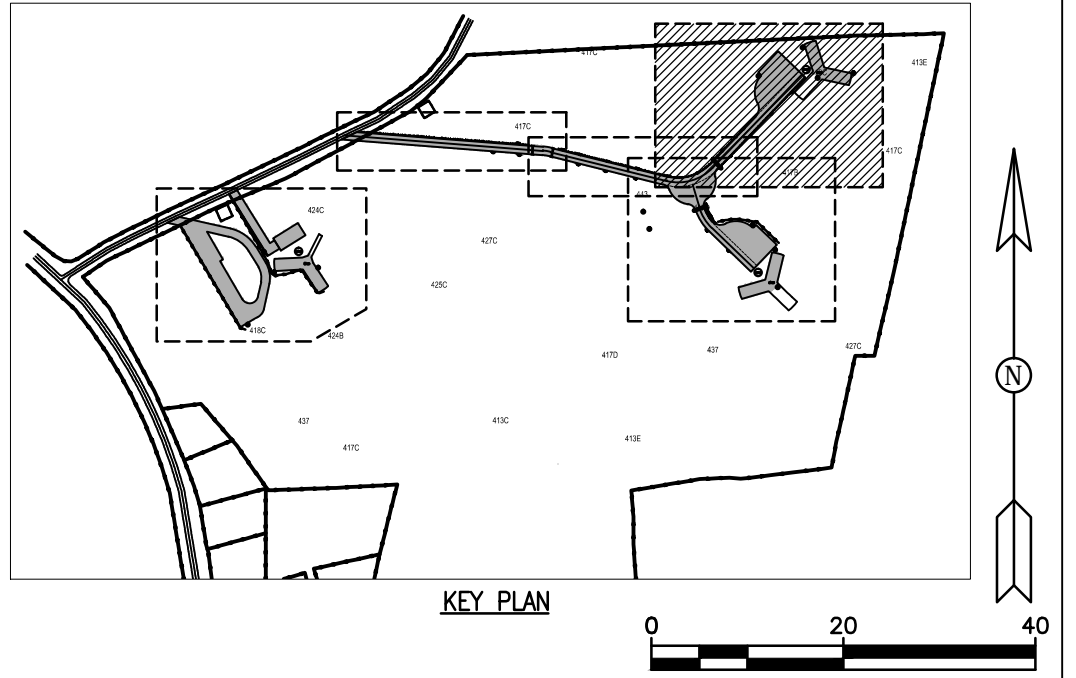
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5



LEGEND

	S F	SILT FENCE
	TP TP	TREE PROTECTION FENCE
	HB	STRAW HAY BALES
	TD TD	TEMPORARY DIVERSION
		WETLAND LIMITS
	84C 84B	SOIL TYPE BOUNDARY
	P L	PROPERTY BOUNDARY
	C P	CULVERT PIPE/SLOPE DRAIN
		ROCK CHECK DAM
	FLOW	FLOW ARROW
	TS	TEMPORARY SEEDING
	TST	TEMPORARY SEDIMENT TRAP
		RIP RAP
		COMPACTED EARTH
		GRAVEL



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:	CHK BY:	FILE NUMBER:
RSW	12-01-10	TLK	1385

ZAPATA
 6502 LAWREN ROAD, SUITE 200, WINDHAM, ME 04997
 TEL: 207-875-1234 FAX: 207-875-1235
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-EROSION CONTROL PLAN
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION THREE
 EROSION CONTROL PLAN

SHEET IDENTIFICATION
C-203



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

1

2

3

4

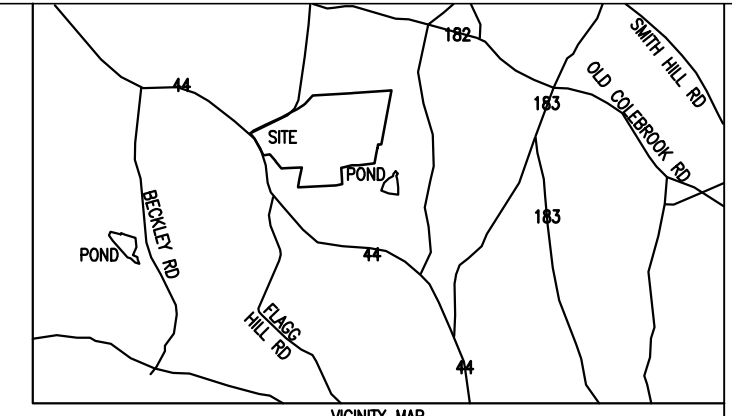
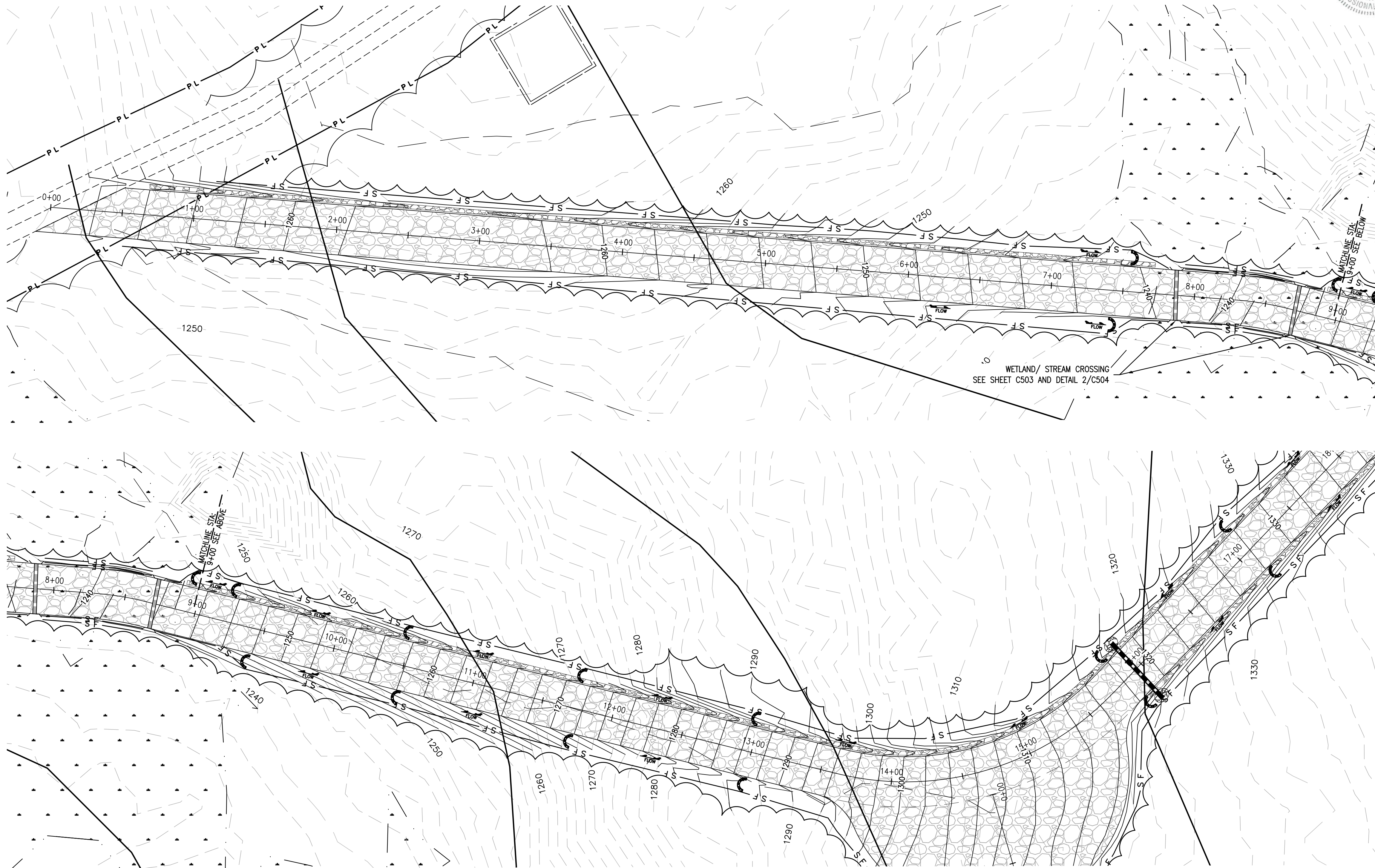
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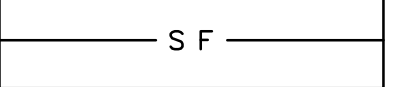
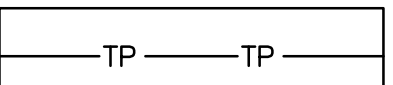
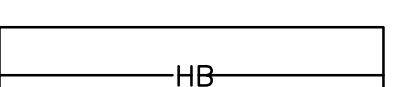
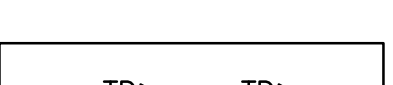
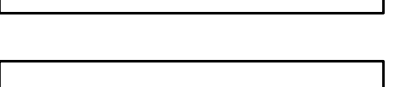
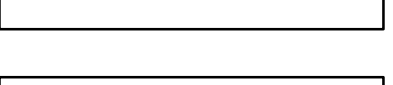
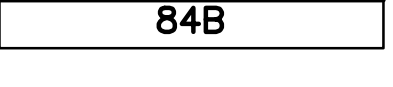
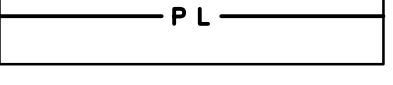
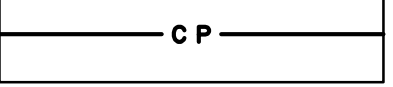
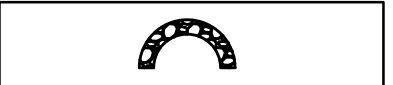

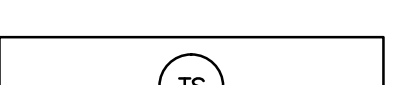

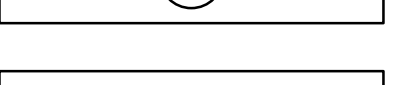
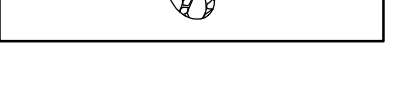
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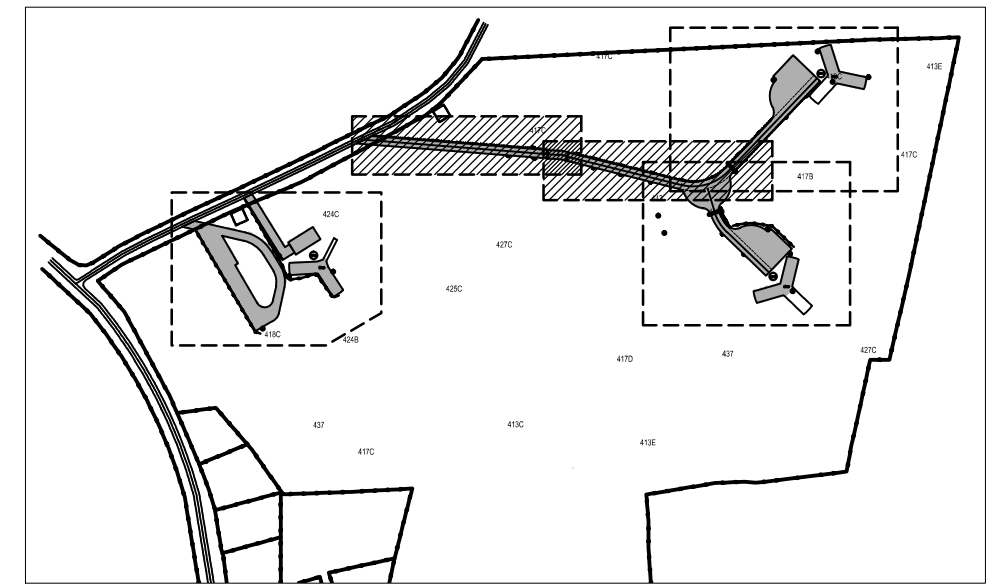
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LEGEND

-  S F SILT FENCE
-  TP TP TREE PROTECTION FENCE
-  HB STRAW HAY BALES
-  TD TD TEMPORARY DIVERSION
-  WETLAND LIMITS
-  84C 84B SOIL TYPE BOUNDARY
-  P L PROPERTY BOUNDARY
-  C P CULVERT PIPE/SLOPE DRAIN
-  ROCK CHECK DAM
-  FLOW FLOW ARROW
-  TS TEMPORARY SEEDING
-  TST TEMPORARY SEDIMENT TRAP
-  RIP RAP
-  COMPACTED EARTH
-  GRAVEL

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:
RSW	12-01-10

DESIGNED BY: RSW
 CHECKED BY: TLK
 SUBMITTED BY: BNE ENERGY
 PLOT SCALE: PLOT DATE: 12-01-10
 AS SHOWN FILE NUMBER: 1385
 SIZE: FILE NAME:
 ANS I D

WIND COLEBROOK NORTH
 WINDST-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 CRANE NE ROAD STA: 0+00 TO 17+00
 EROSION CONTROL PLAN

SHEET
 IDENTIFICATION
C-204

BNE Energy Inc.
 Producer of green clean energy

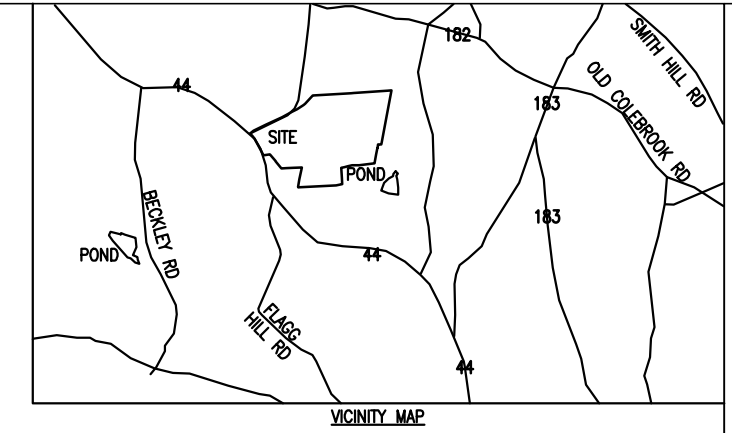


D

C

B

A



LEGEND

	CULVERT PIPE
	DITCH LINE
	EXISTING TOPO
	NEW TOPO
	WETLAND LIMITS
	VEGETATION
	COMPACTED EARTH
	WETLAND
	GRAVEL

GRADING NOTES:

- DISCREPANCIES SHOULD BE NOTED AND GUIDANCE OBTAINED FROM THE ENGINEER PRIOR TO CONTINUING WORK.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL EXISTING UNDERGROUND UTILITIES.
 - GENERAL CONTRACTOR TO MONITOR STORM WATER RUNOFF DURING AND AFTER CONSTRUCTION TO ENSURE PROPER DRAINAGE AWAY FROM PROPOSED BUILDING AND DRIVE.
 - ALL GRADES SHOWN ON PLANS TO BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. SHOULD ANY DISCREPANCIES EXIST, NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.
 - ALL HARD SURFACES SHALL HAVE A SLOPE AS INDICATED ON DRAWINGS.
 - GENERAL CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM TOWER PADS.
 - MASS GRADING WILL NOT BE CONDUCTED ON THIS SITE.
 - ALL EROSION CONTROL STRUCTURES TO BE INSTALLED PRIOR TO CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
 - ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
 - SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.
- AREA TO BE CLEARED - 411842 SQ. FT. / 9.45 ACRES
 AREA WITHIN 100' WETLAND OFFSET - 77199 SQ. FT. / 1.77 ACRES
- DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.

MARK	DESCRIPTION	DATE	TLK	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10		

DESIGNED BY:	DATE:
RSW	12-01-10

CHKD BY:	DATE:
TLK	12-01-10

SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385

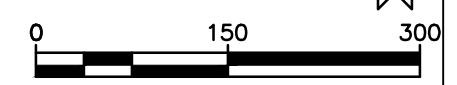
PLOT SCALE:	FILE NAME:
AS SHOWN	12-01-10

ZAPATA
 6502 LAWRENCE ROAD, SUITE 200A, WINDHAM, VT 05791
 PHONE: (802) 356-8640
 FAX: (802) 356-8641
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WINDSET-NORFOLK ROAD
 COLEBROOK, CONNECTICUT

OVERALL GRADING PLAN

SHEET IDENTIFICATION
C-300



1

2

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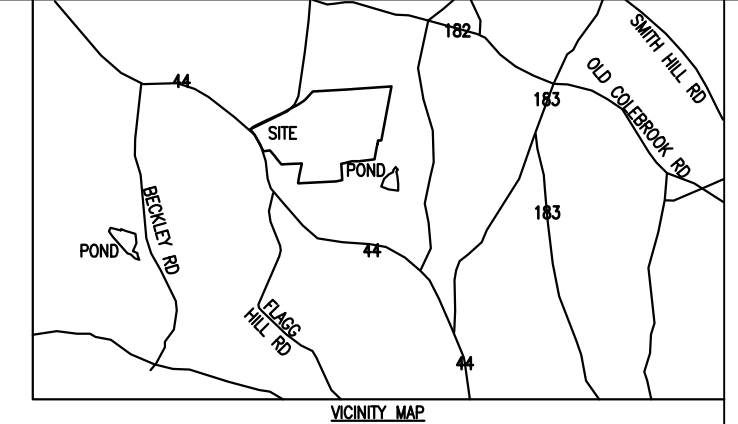
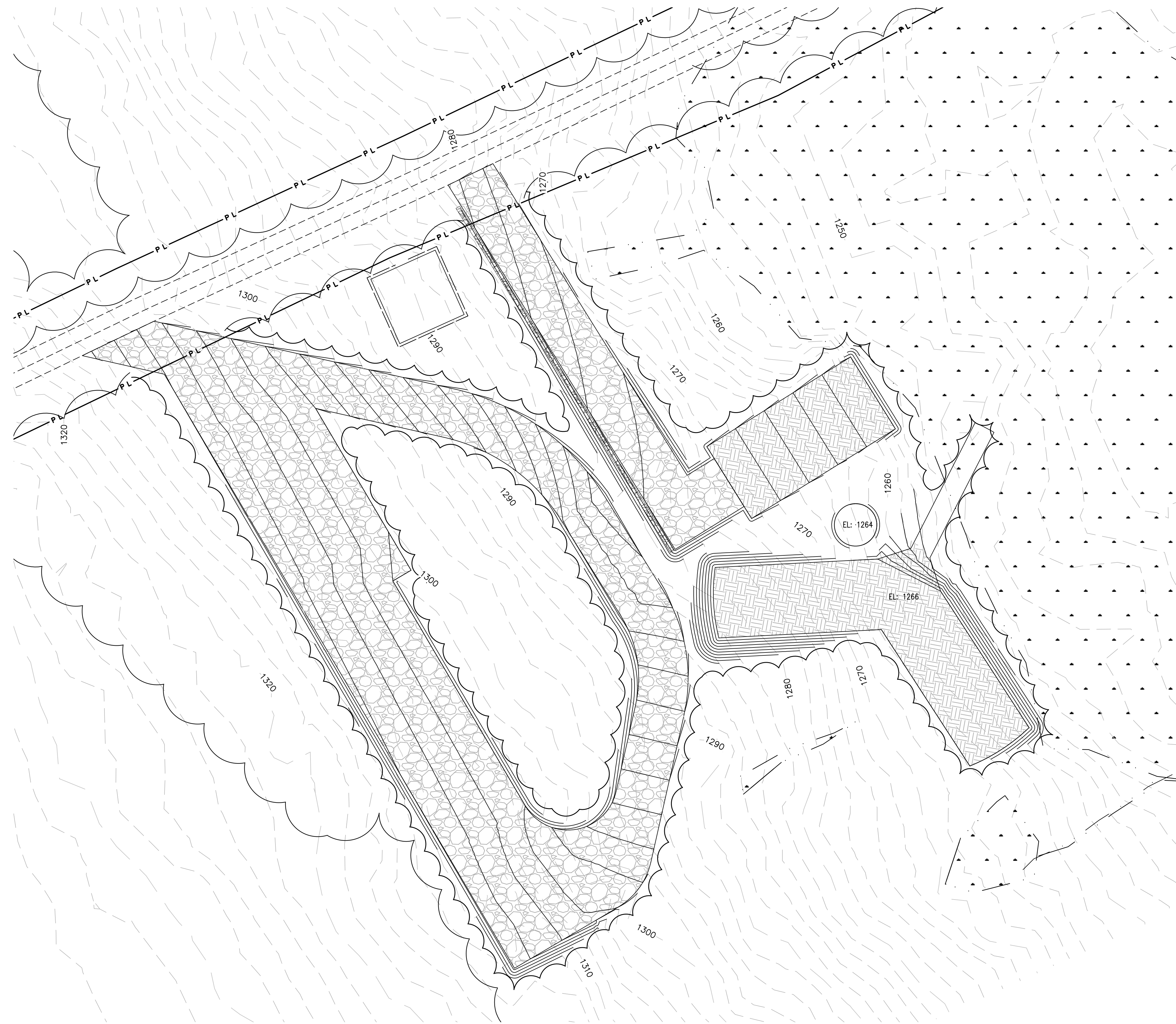
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D

C

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A



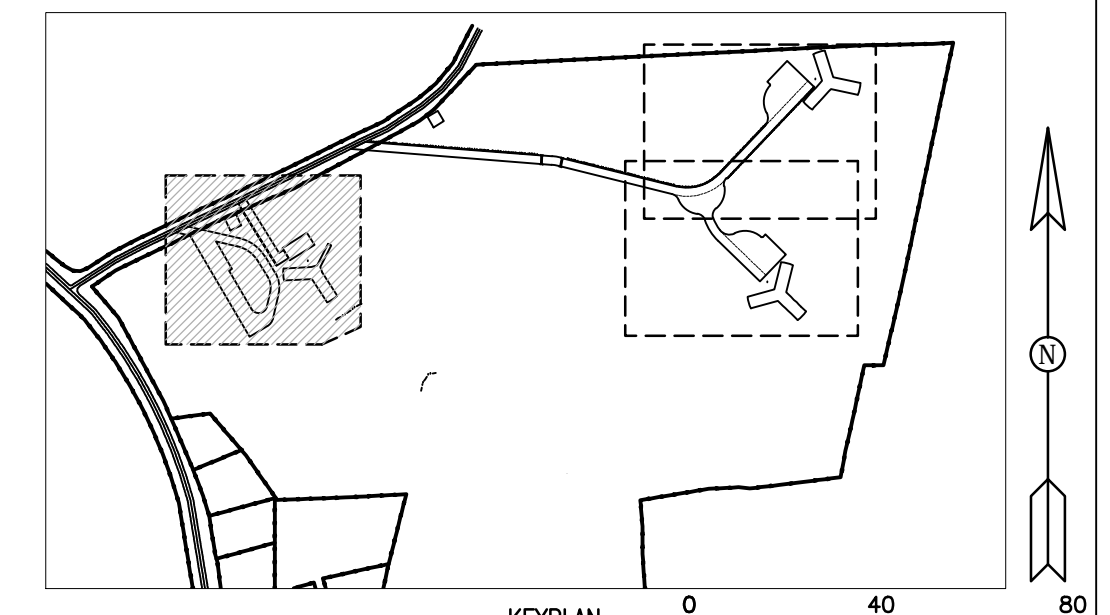
LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
		VEGETATION
		POST CONSTRUCTION VEGETATION LINE
		COMPACTED EARTH
		WETLAND
		GRAVEL

GRADING NOTES:

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- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.



MARK	DESCRIPTION	DATE	TLC	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10		

DESIGNED BY:	DATE:
DRAWN BY:	12-01-10
RSW	
CHK BY:	
TJK	
SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385
PLOT SCALE:	FILE DATE:
AS SHOWN	12-01-10
SIZE:	FILE NAME:
ANSI D	

ZAPATA
 6502 LAWRENCE ROAD, SUITE 200, WINDHAM, ME 04986
 TEL: 207-833-1100 FAX: 207-833-1101
 WWW.ZAPATAINC.COM

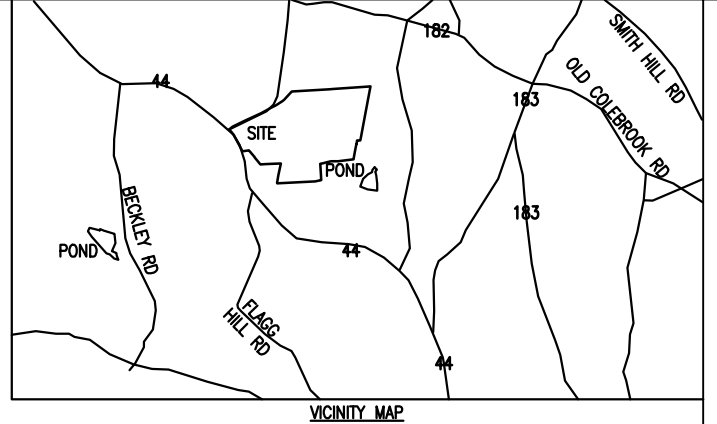
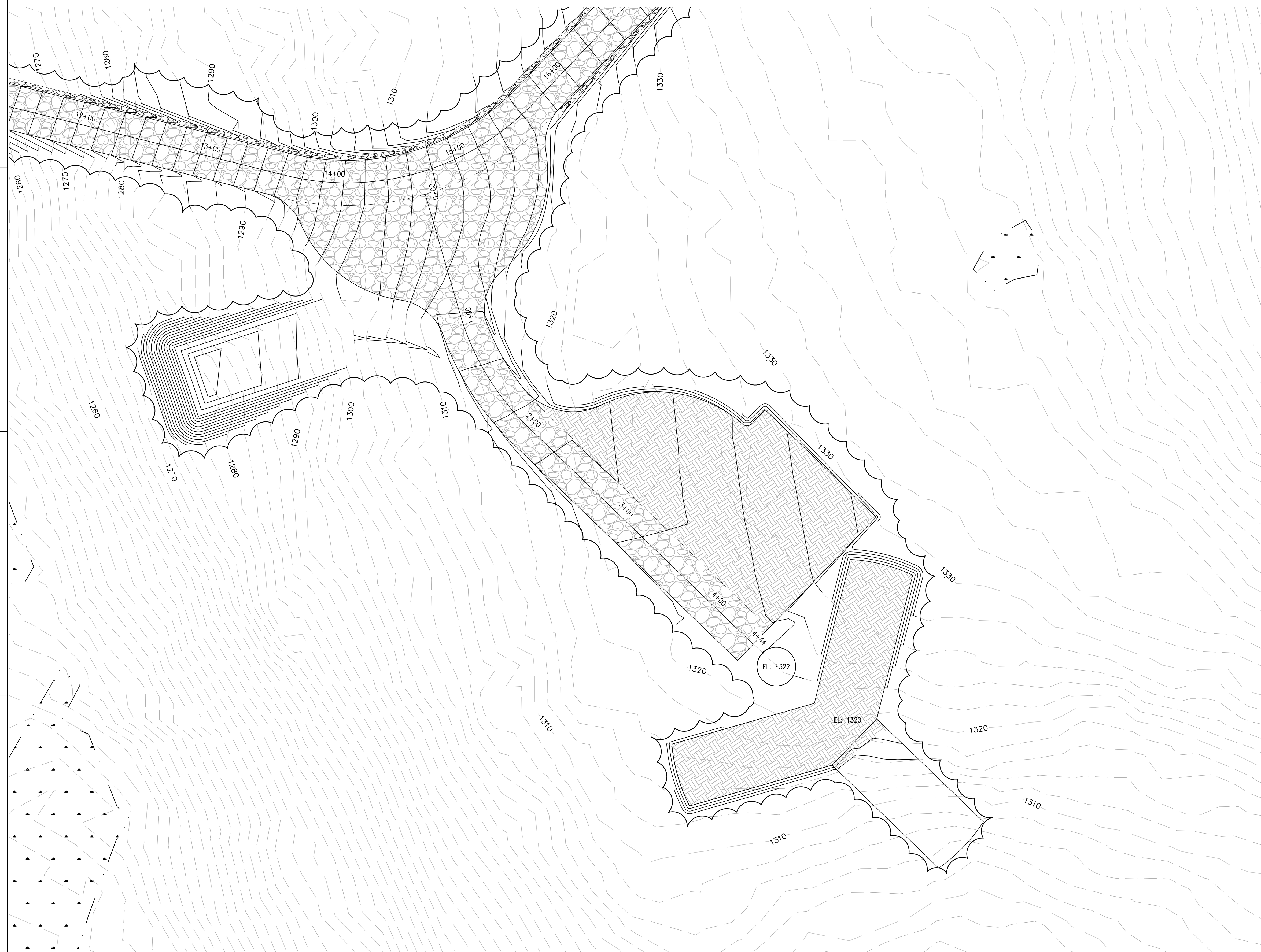
WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION ONE AND
 CRANE ASSEMBLY AREA GRADING PLAN

SHEET
 IDENTIFICATION
C-301



D
C
B
A

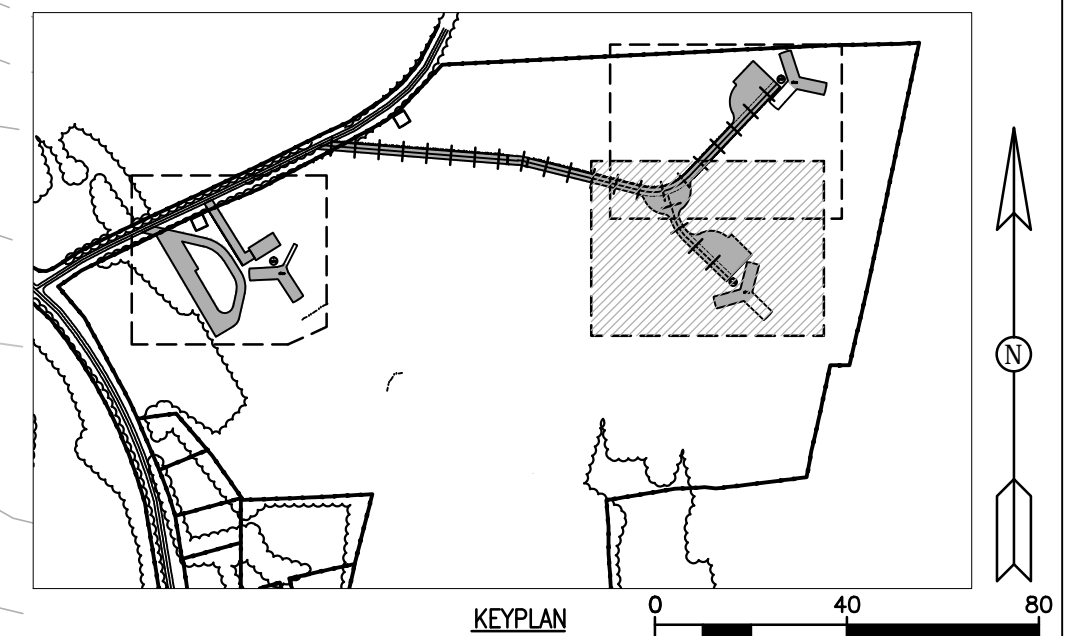
1 2 3 4 5



LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
		VEGETATION
		POST CONSTRUCTION VEGETATION LINE
		COMPACTED EARTH
		WETLAND
		GRAVEL

- GRADING NOTES:**
- DISCREPANCIES SHOULD BE NOTED AND GUIDANCE OBTAINED FROM THE ENGINEER PRIOR TO CONTINUING WORK.
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 - SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.



MARK	DESCRIPTION	DATE	TLK	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10		

DESIGNED BY:	DATE:
RSW	12-01-10

CHKD BY:	FILE NUMBER:
TLK	1385

DESIGNED BY:	DATE:
RSW	12-01-10

CHKD BY:	FILE NUMBER:
TLK	1385

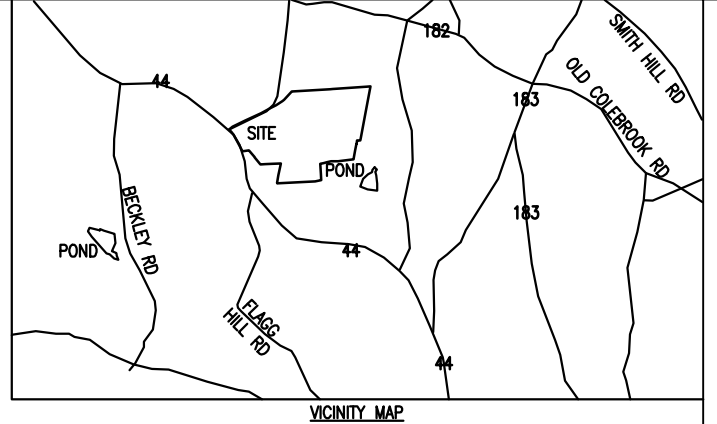
ZAPATA
 6502 LAWRENCE ROAD, SUITE 200, WINDHAM, ME 04986
 PHONE: (204) 356-8940
 FAX: (204) 356-8941
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-NOFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION TWO GRADING PLAN

SHEET
 IDENTIFICATION
C-302



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

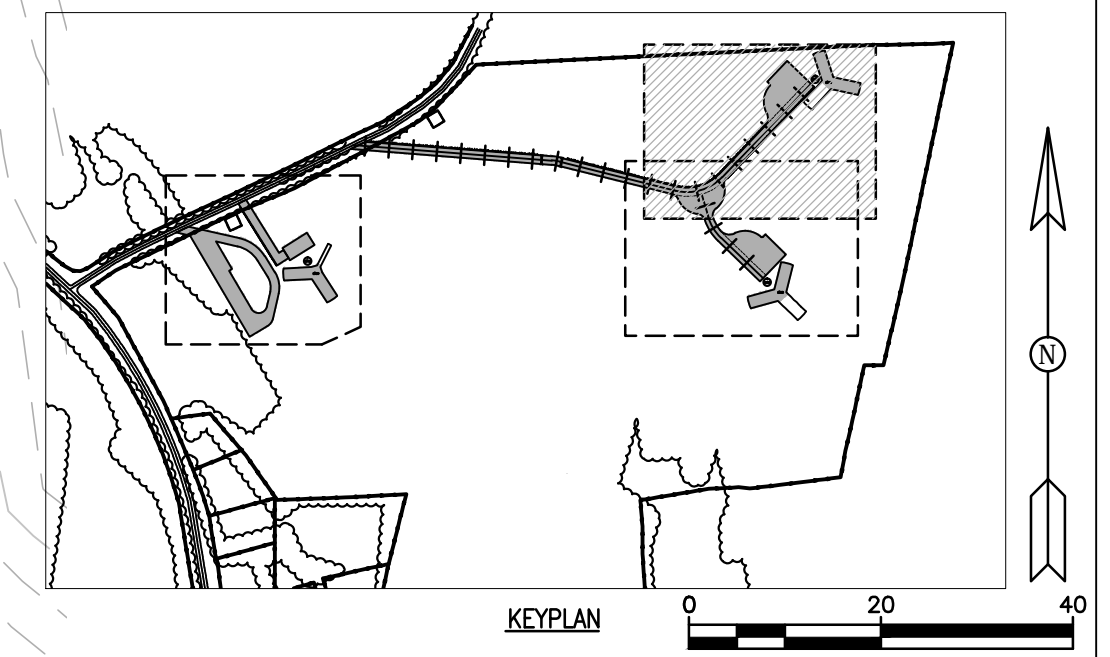


LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
		VEGETATION
		POST CONSTRUCTION VEGETATION LINE
		COMPACTED EARTH
		WETLAND
		GRAVEL

GRADING NOTES:

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MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:
TLK	12-01-10

CHKD BY:	DATE:
TLK	12-01-10

DESIGNED BY:	DATE:
TLK	12-01-10

DESIGNED BY:	DATE:
TLK	12-01-10

ZAPATA
 6502 LAWREN ROAD, SUITE 200, WINDY HILL, CT 06095
 PHONE: (203) 356-8540
 FAX: (203) 356-8541
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WINDSET-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION THREE GRADING PLAN

SHEET IDENTIFICATION
C-303



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

D

C

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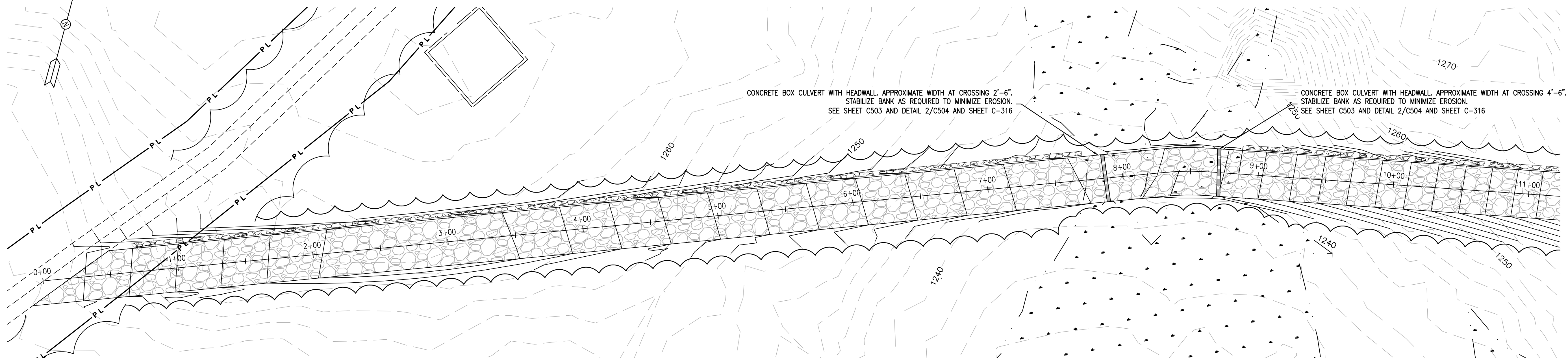
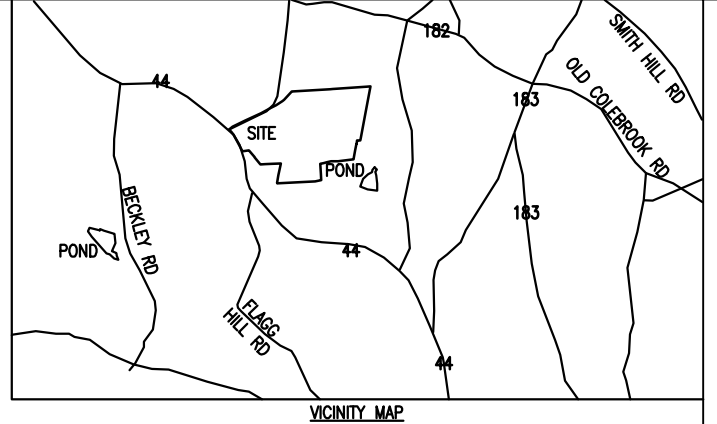
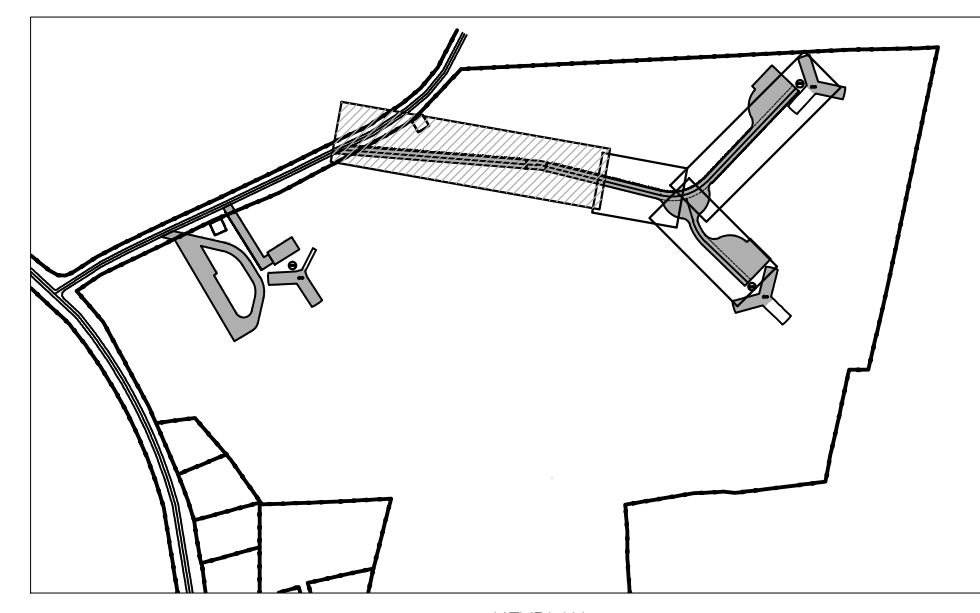
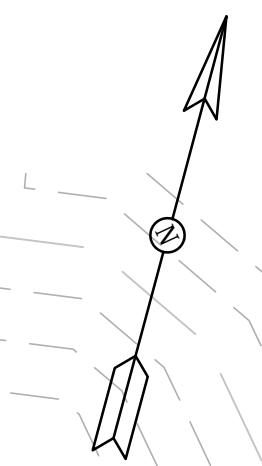
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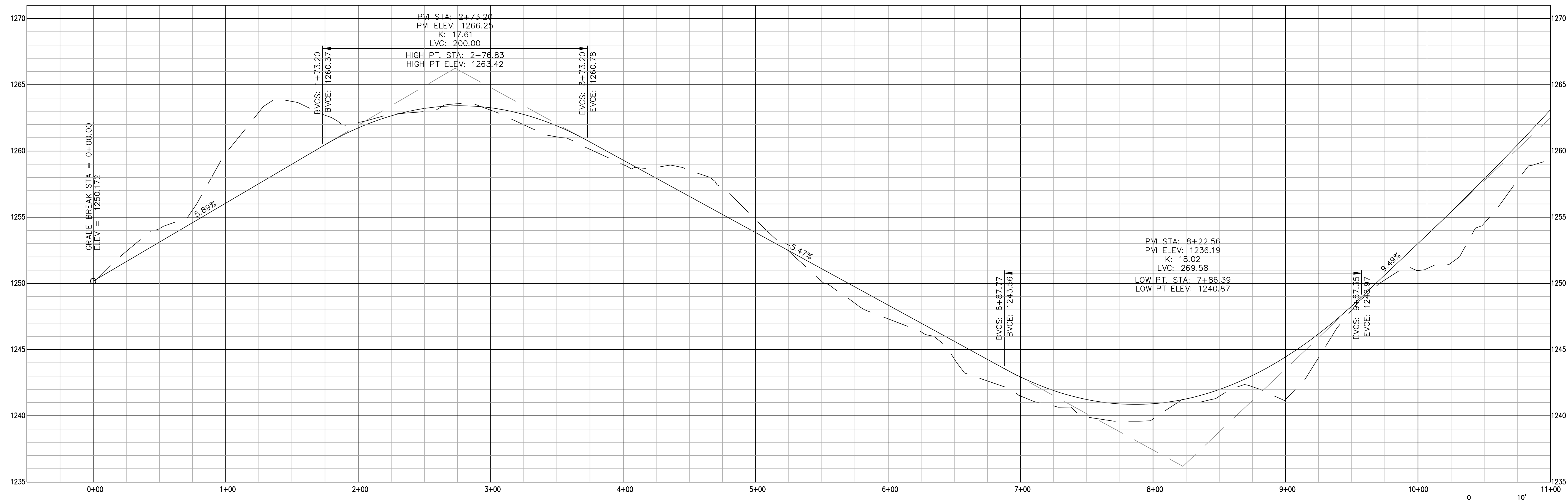
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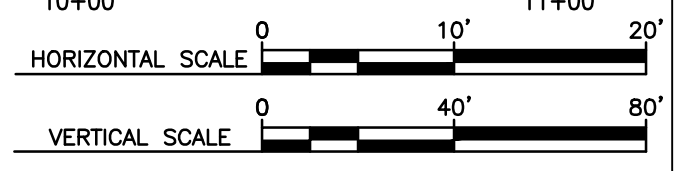
CONCRETE BOX CULVERT WITH HEADWALL. APPROXIMATE WIDTH AT CROSSING 2'-6".
STABILIZE BANK AS REQUIRED TO MINIMIZE EROSION.
SEE SHEET C503 AND DETAIL 2/C504 AND SHEET C-316

CONCRETE BOX CULVERT WITH HEADWALL. APPROXIMATE WIDTH AT CROSSING 4'-6".
STABILIZE BANK AS REQUIRED TO MINIMIZE EROSION.
SEE SHEET C503 AND DETAIL 2/C504 AND SHEET C-316



PVI STA: 8+22.56
PVI ELEV: 1236.19
K: 18.02
LVC: 269.58
LOW PT. STA: 7+86.39
LOW PT. ELEV: 1240.87

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

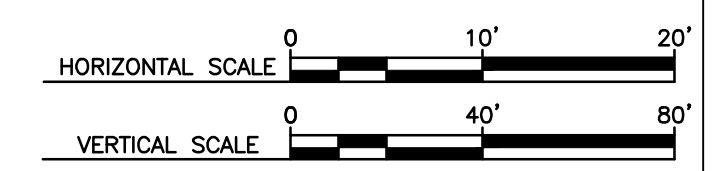
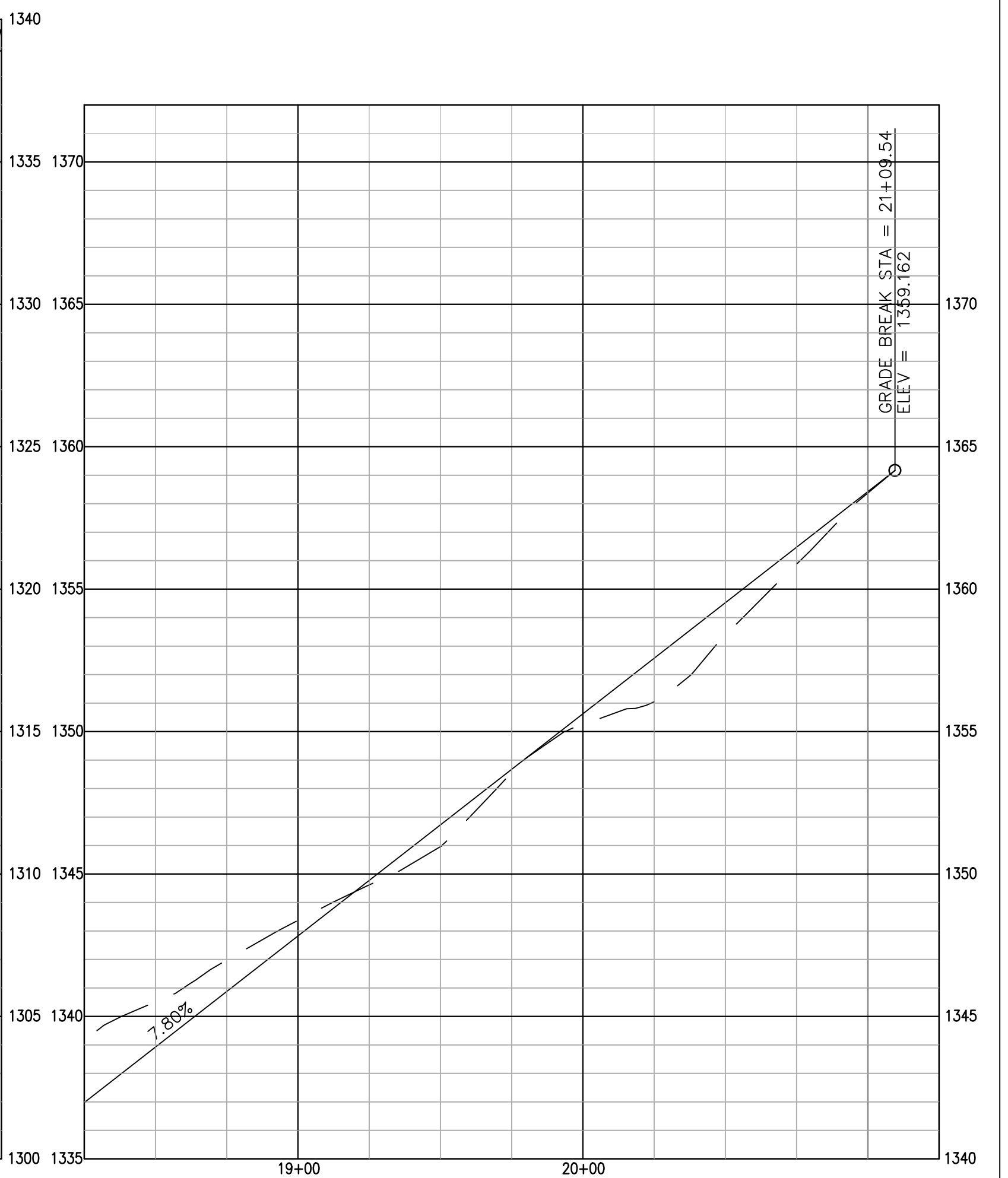
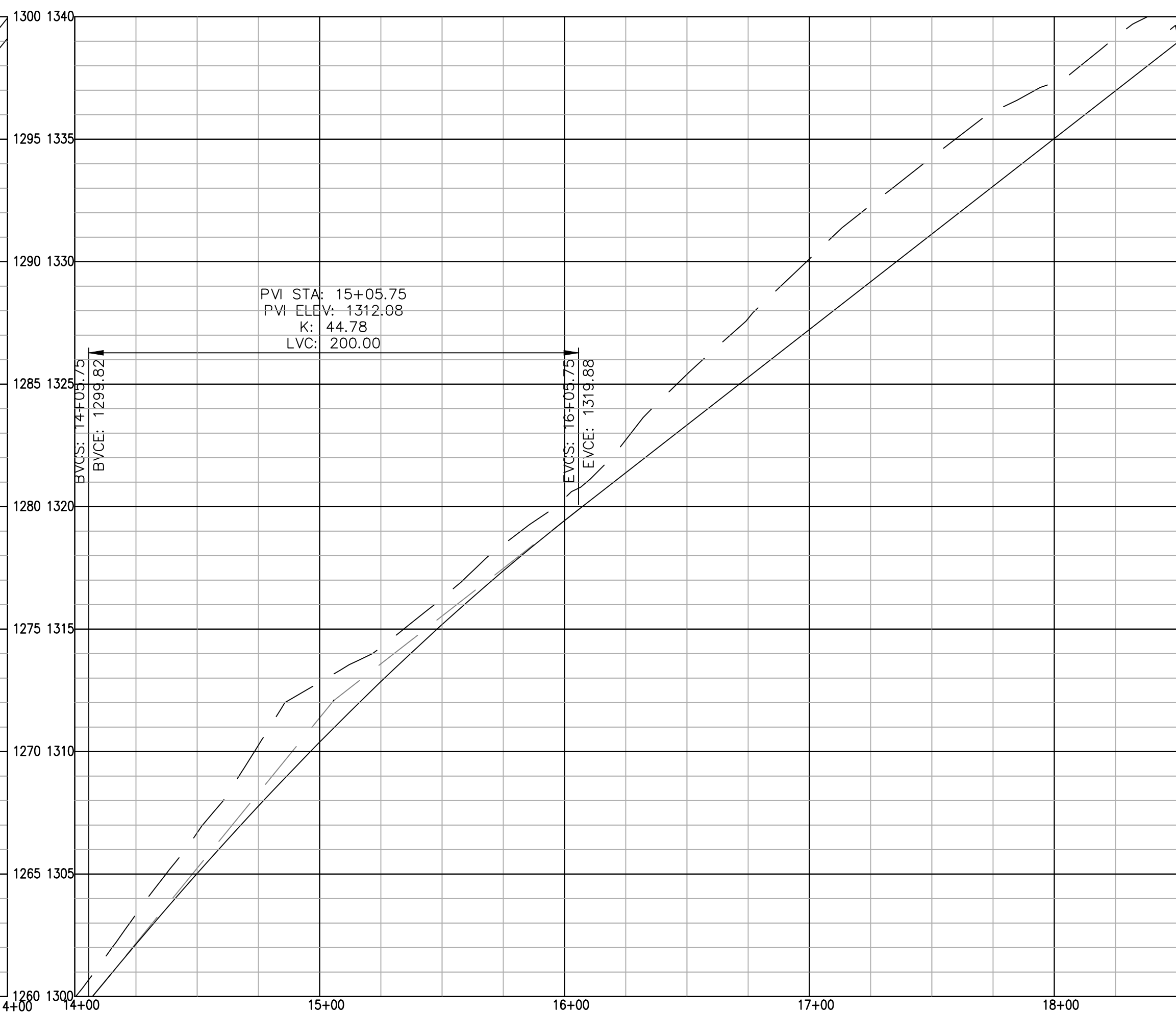
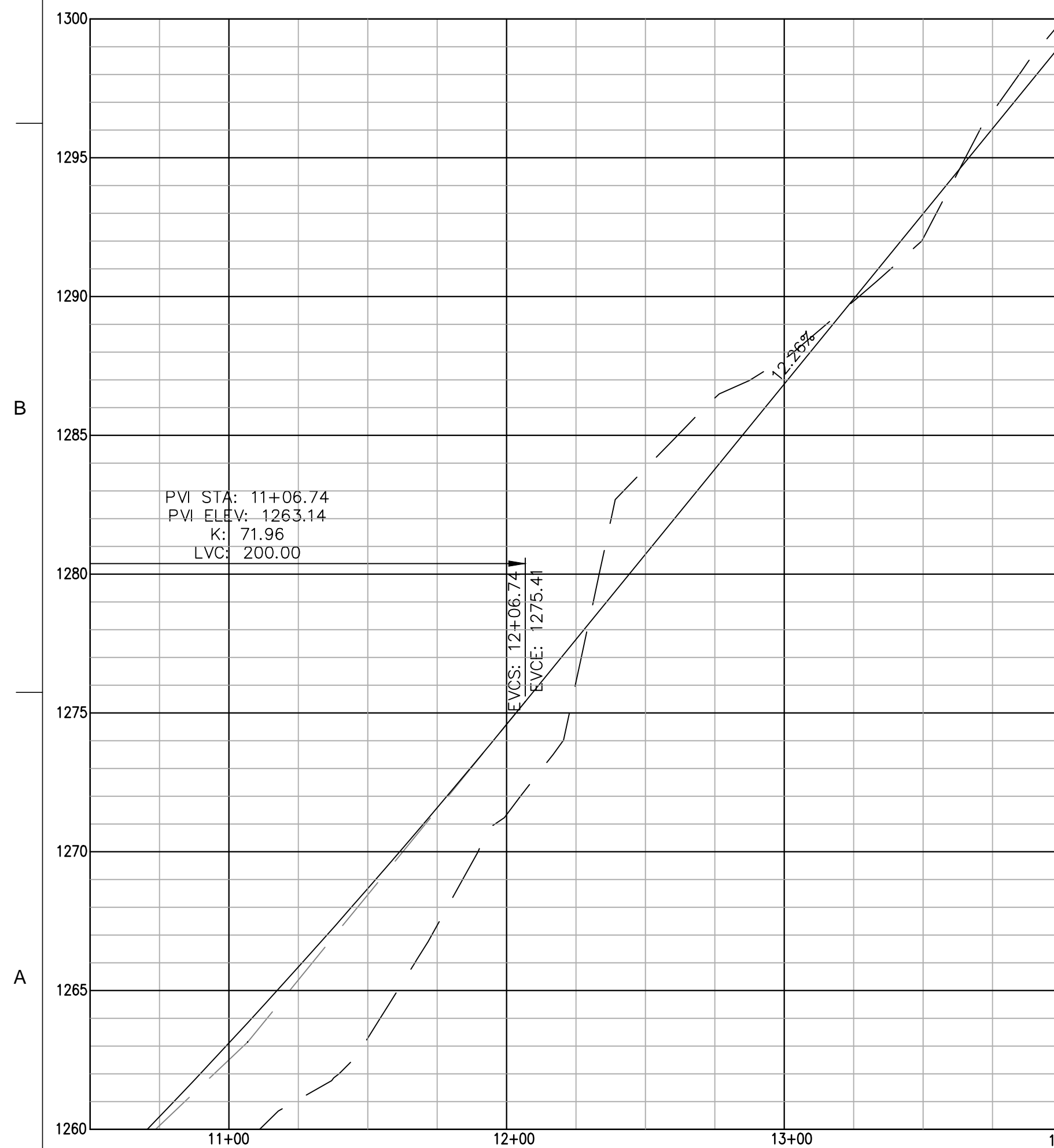
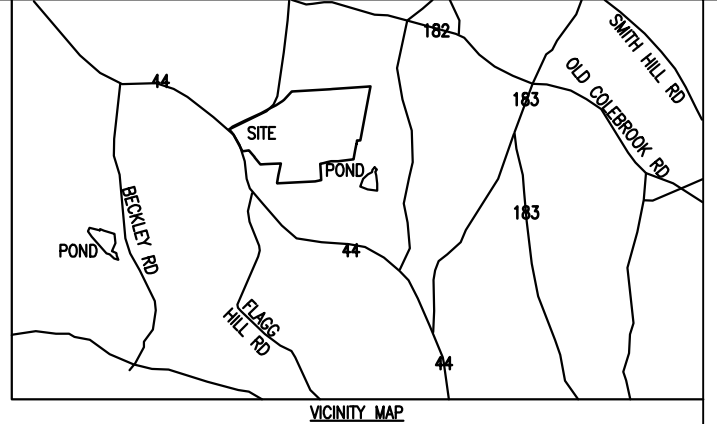
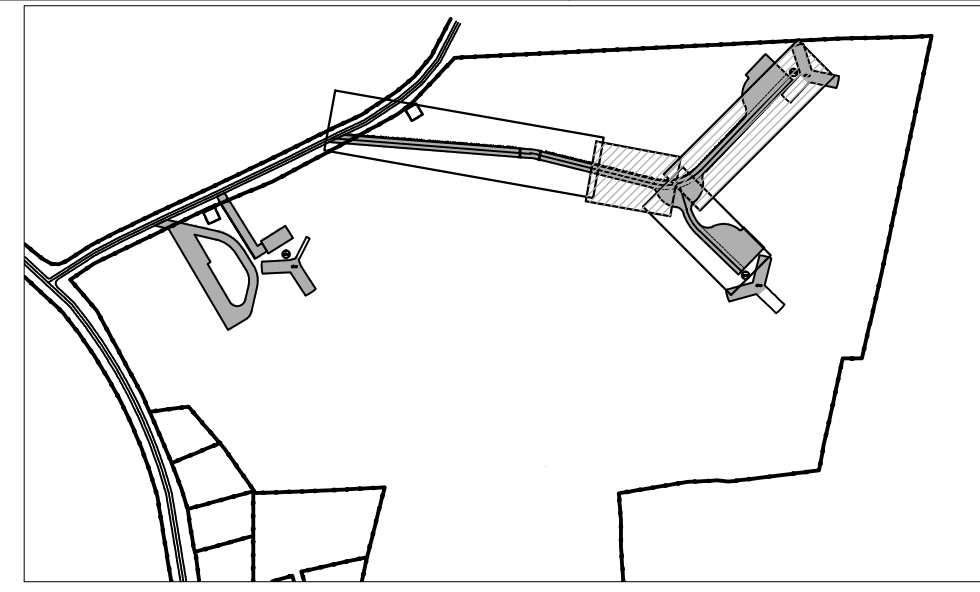
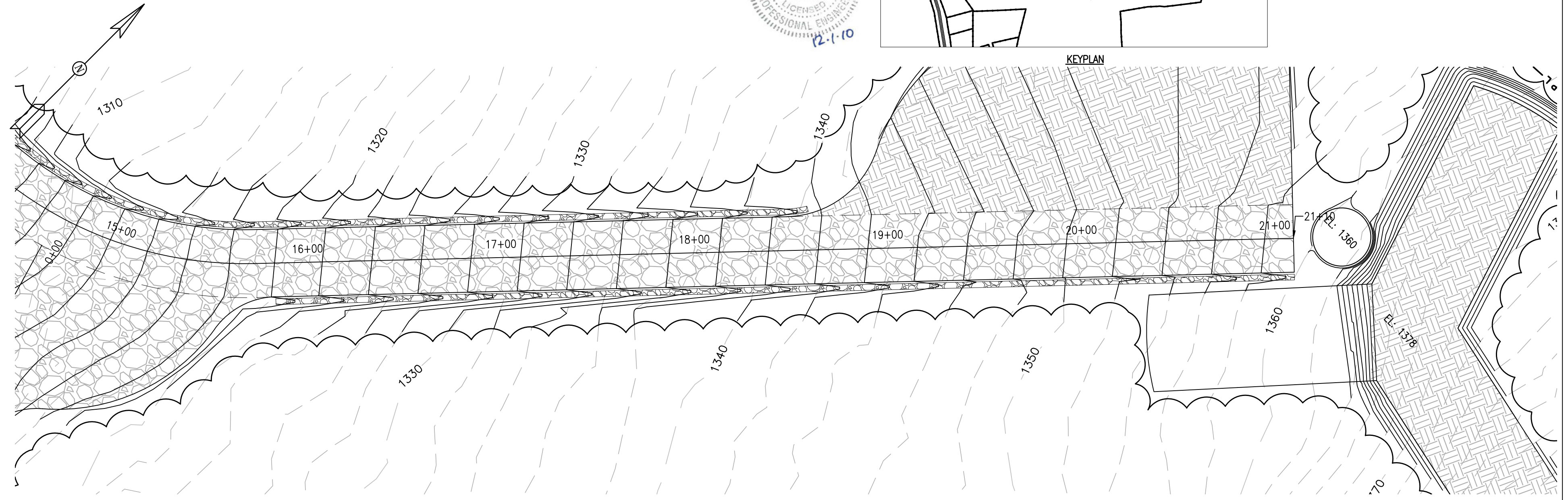
DESIGNED BY:	DATE:
RSW	12-01-10

ZAPATA
6502 LAWRENCE ROAD, SUITE 300, WINDHAM, VT 05791
TEL: 802-338-8800 FAX: 802-338-8801
WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
WINDSLED-NORFOLK ROAD
COLEBROOK, CONNECTICUT
CRANE ROAD PLAN AND PROFILE
STA. 0+00 TO 11+00

SHEET IDENTIFICATION
C-304

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY



MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:
TLK	12-01-10

ZAPATA
 6002 LAWRENCE ROAD, SUITE 300-840
 WINDHAM, MAINE 04095
 ZAPATAZAPATA.COM WWW.ZAPATAZAPATA.COM

WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 CRANE ROAD PLAN AND PROFILE
 STA: 11+00 TO 21+10

SHEET IDENTIFICATION
C-305



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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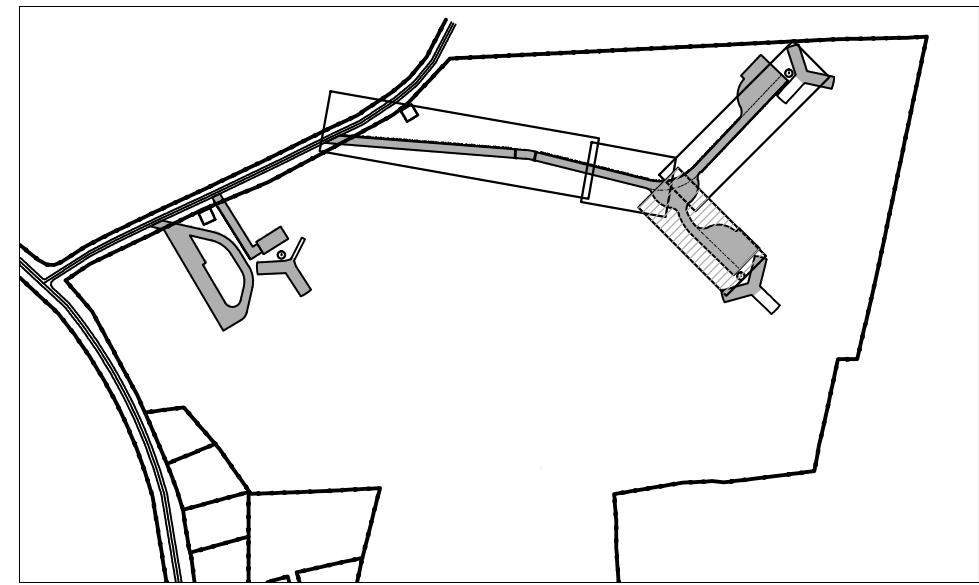
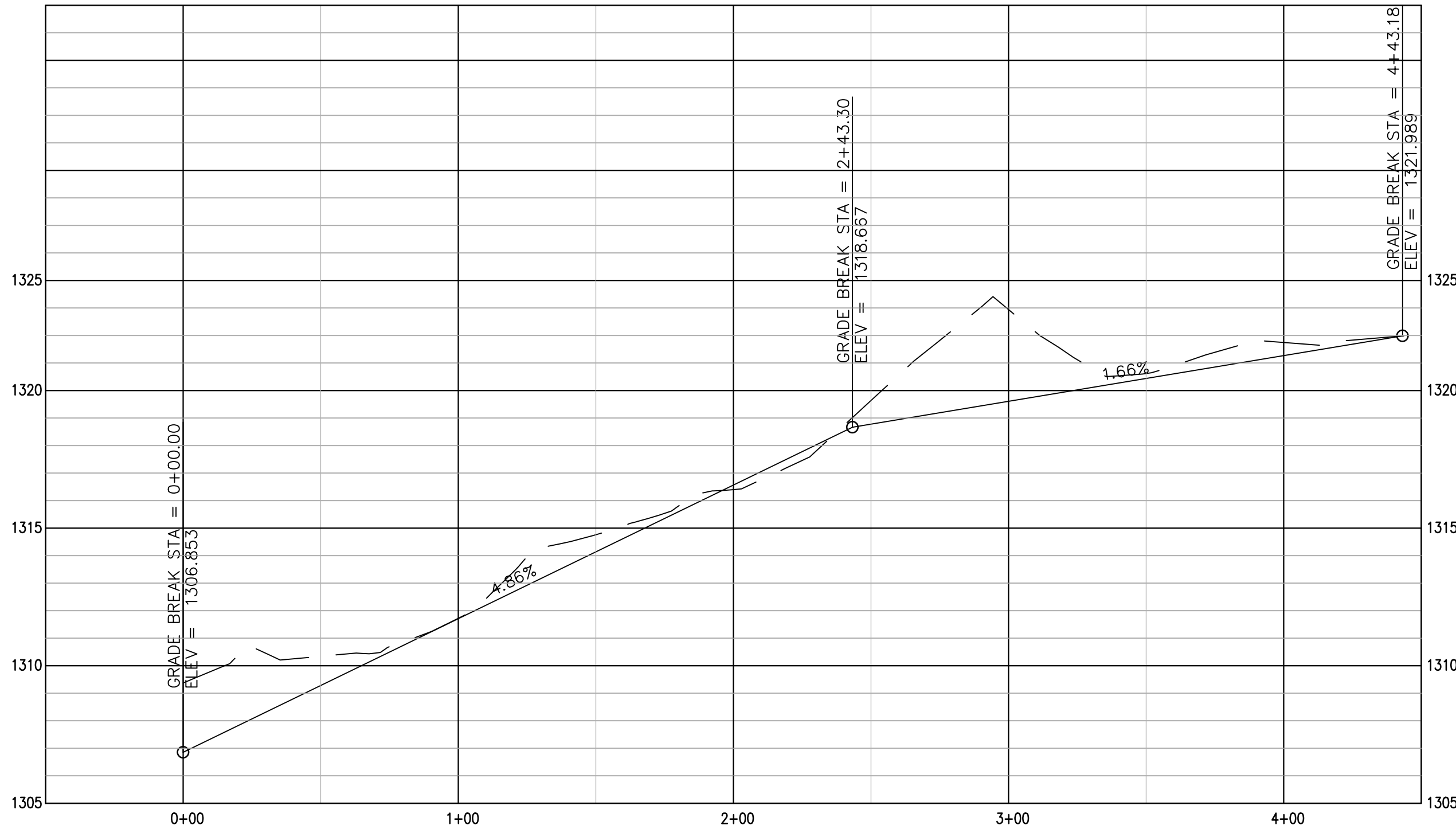
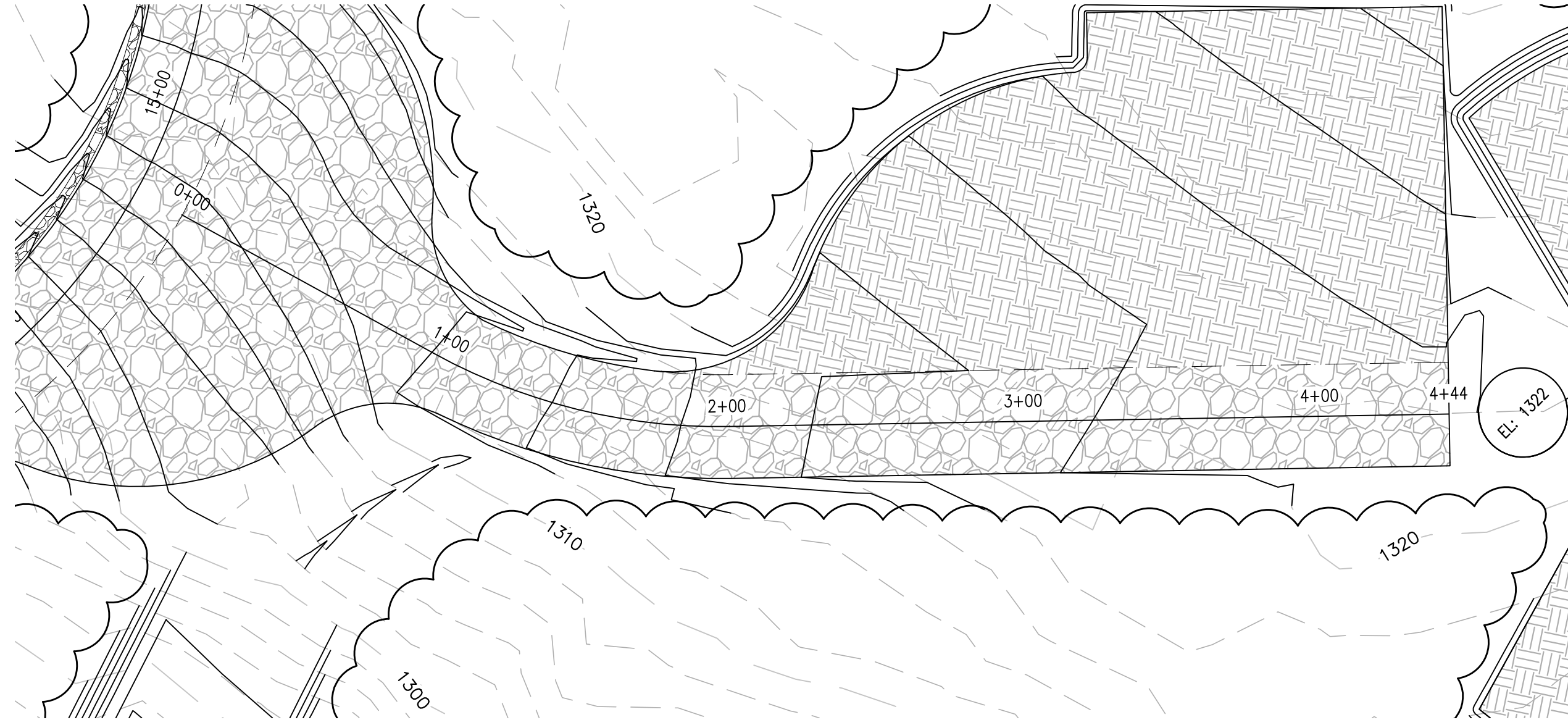
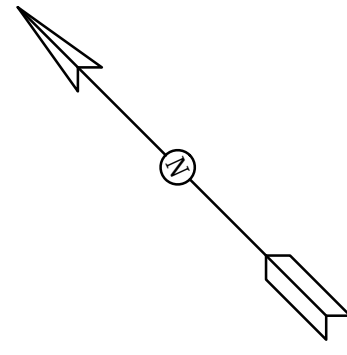
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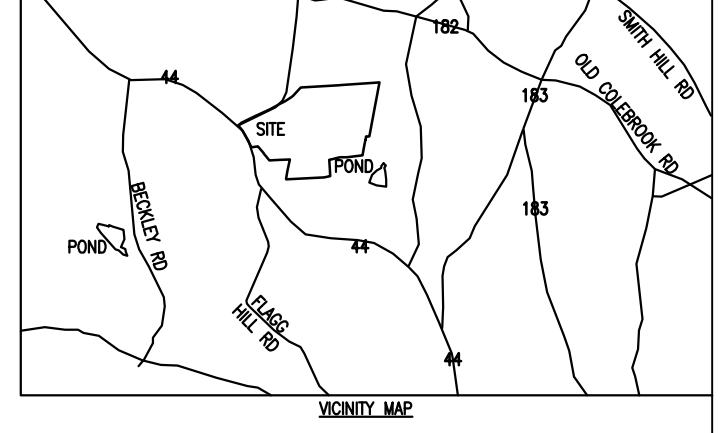
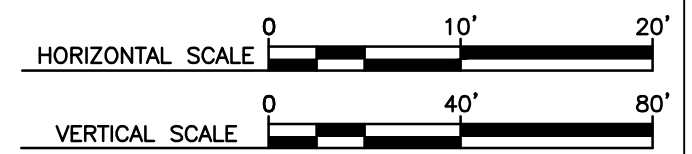
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KEYPLAN



BNE Energy Inc.
Producer of green clean energy



MARK	DESCRIPTION	DATE	TLC	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLC	APPR.

DESIGNED BY:	DATE:
DRAWN BY:	12-01-10
RSW	
TLC	
FILE NUMBER:	
1385	



6502 LAWRENCE ROAD, SUITE 200
WINDHAM, VT 05093
PHONE: (802) 356-8240
FAX: (802) 356-8241
WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
WINDST-NORFOLK ROAD
COLEBROOK, CONNECTICUT
NEW ACCESS ROAD PLAN AND PROFILE
STA: 0+00 TO 4+43

SHEET IDENTIFICATION
C-306

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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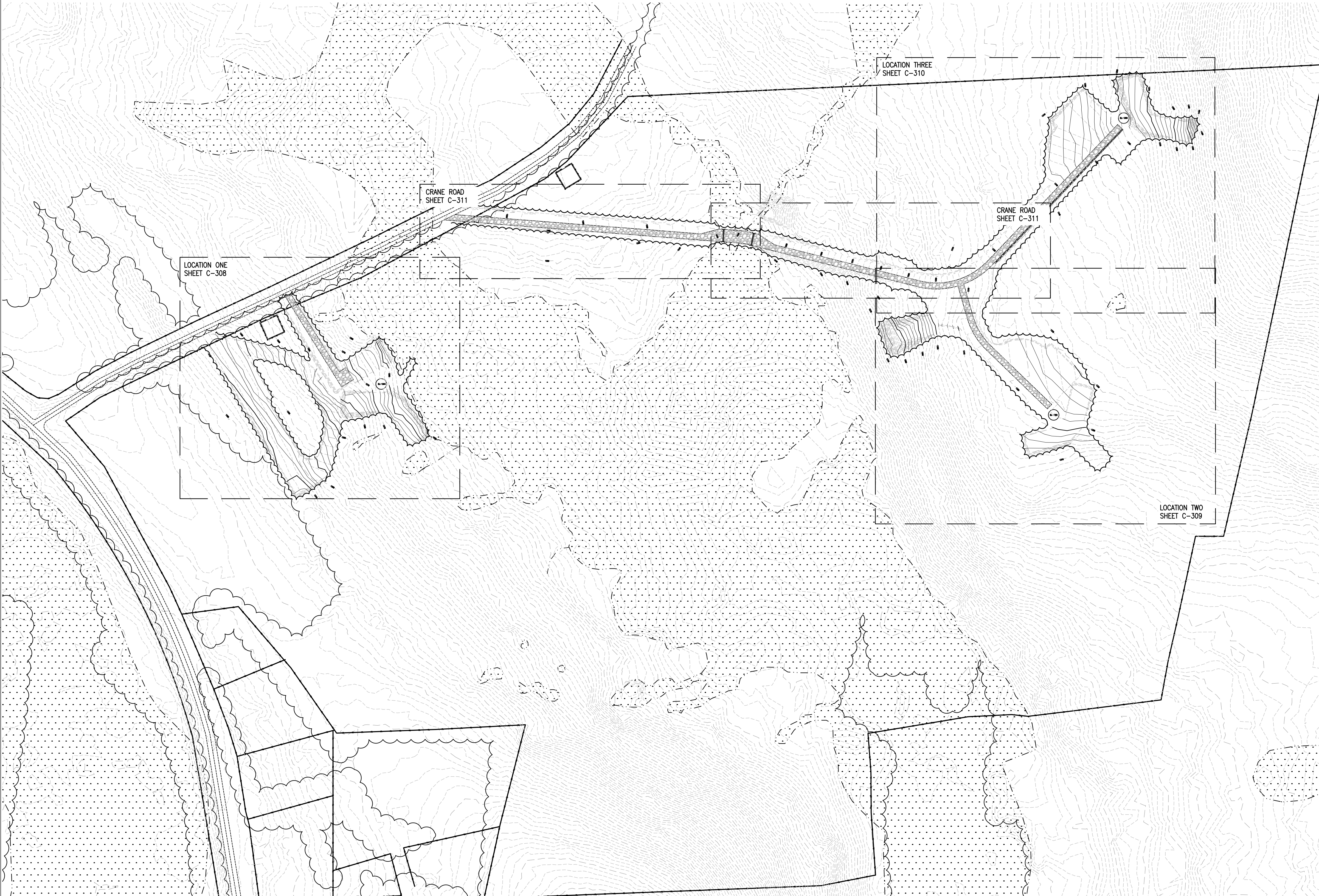
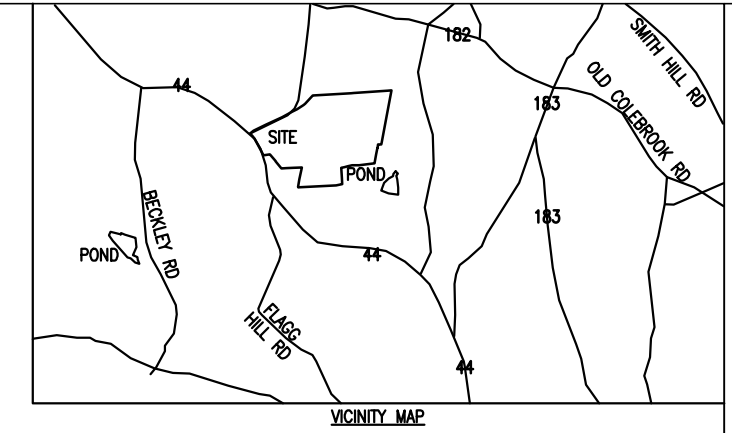
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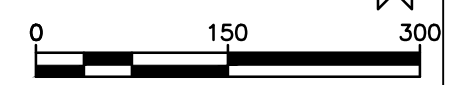
LEGEND

	CULVERT PIPE
	DITCH LINE
	EXISTING TOPO
	NEW TOPO
	WETLAND LIMITS
	VEGETATION
	COMPACTED EARTH
	WETLAND
	GRAVEL

GRADING NOTES:

- DISCREPANCIES SHOULD BE NOTED AND GUIDANCE OBTAINED FROM THE ENGINEER PRIOR TO CONTINUING WORK.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL EXISTING UNDERGROUND UTILITIES.
- GENERAL CONTRACTOR TO MONITOR STORM WATER RUNOFF DURING AND AFTER CONSTRUCTION TO ENSURE PROPER DRAINAGE AWAY FROM PROPOSED BUILDING AND DRIVE.
- ALL GRADES SHOWN ON PLANS TO BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. SHOULD ANY DISCREPANCIES EXIST, NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL HARD SURFACES SHALL HAVE A SLOPE AS INDICATED ON DRAWINGS.
- GENERAL CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM TOWER PADS.
- MASS GRADING WILL NOT BE CONDUCTED ON THIS SITE.
- ALL EROSION CONTROL STRUCTURES TO BE INSTALLED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.

DIRECT WETLAND IMPACT APPROXIMATELY 3194 SQ. FT.
 TEMPORARY DIRECT WETLAND IMPACT APPROXIMATELY 1785 SQ. FT.



MARK	DESCRIPTION	DATE	TLK	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10		

DESIGNED BY:	DATE:
DRAWN BY:	12-01-10
REVISION:	
CHK BY:	
TLK:	
SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385
PLOT SCALE:	FILE NAME:
AS SHOWN	12-01-10
SIZE:	
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ZAPATA
 6502 LAWRENCE ROAD, SUITE 200A, WINDHAM, VT 05791
 TEL: 802-338-7777
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WINDST-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 OVERALL POST CONSTRUCTION
 GRADING PLAN

SHEET
 IDENTIFICATION
C-307



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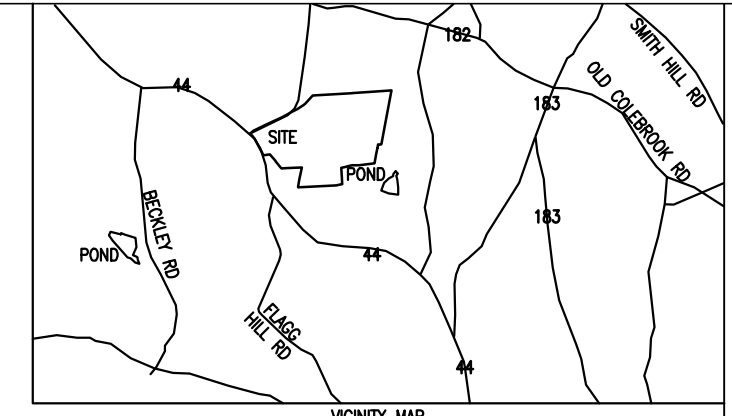
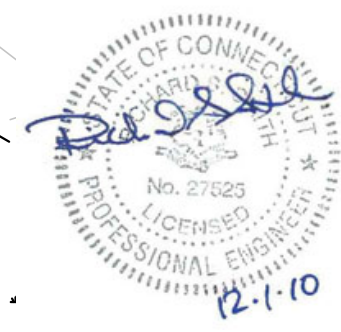
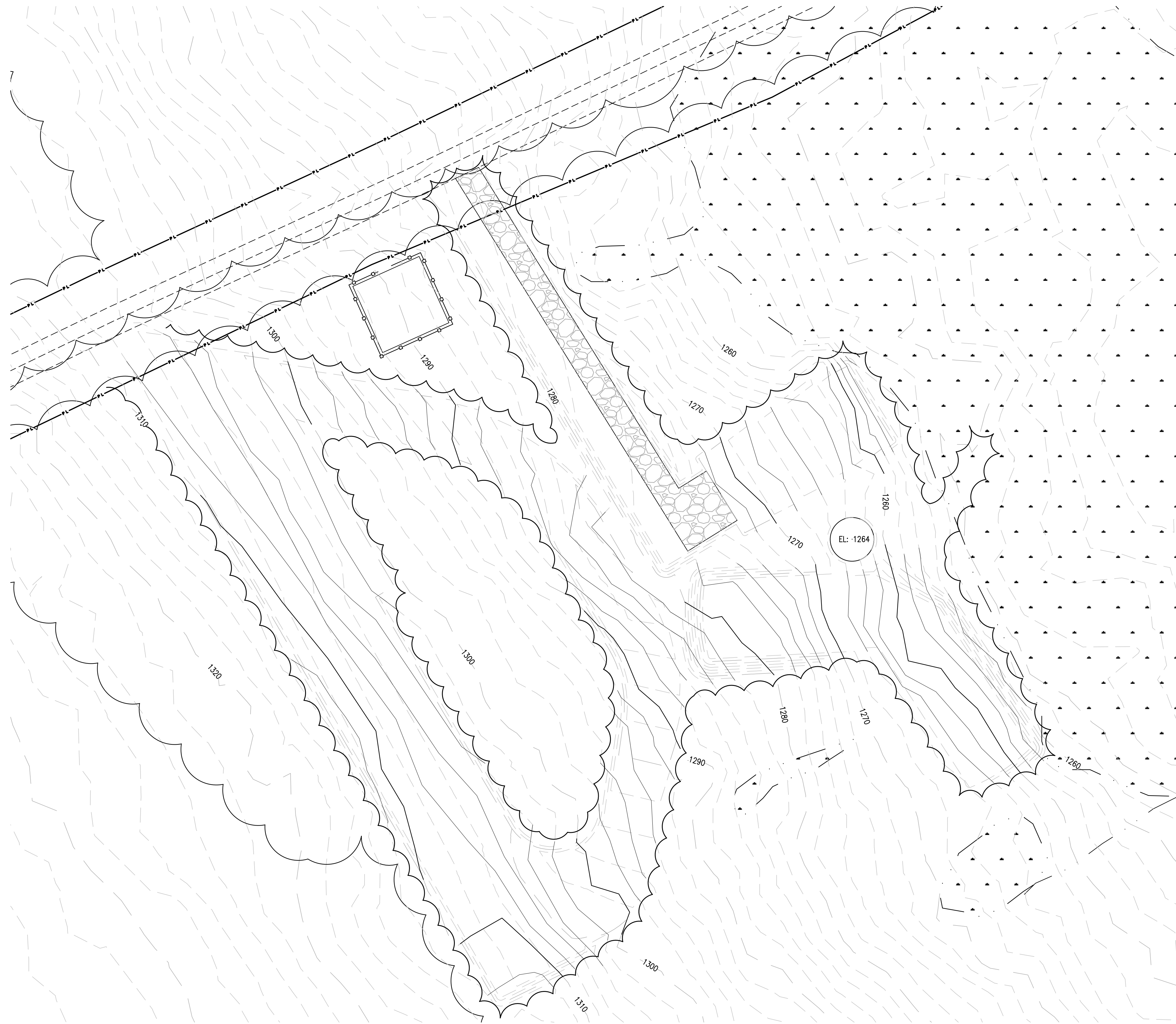
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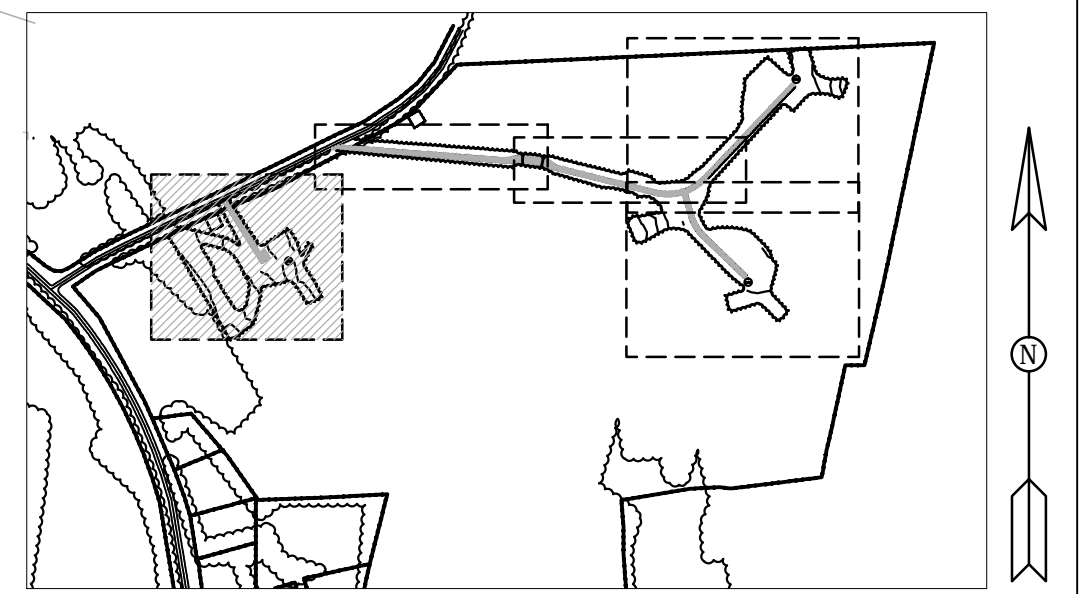
LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
		VEGETATION
		POST CONSTRUCTION VEGETATION LINE
		COMPACTED EARTH
		WETLAND
		GRAVEL

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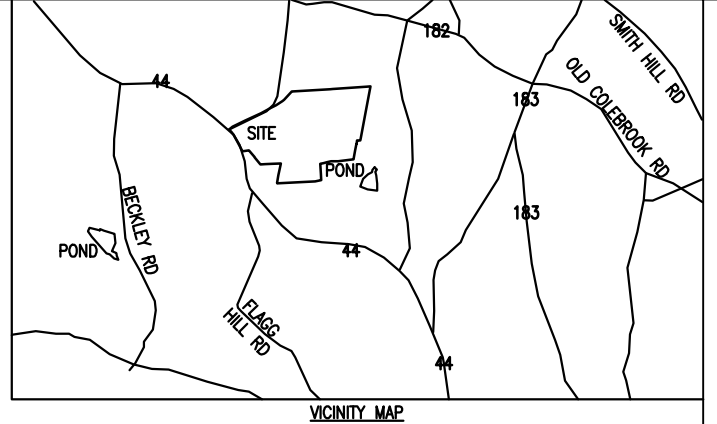
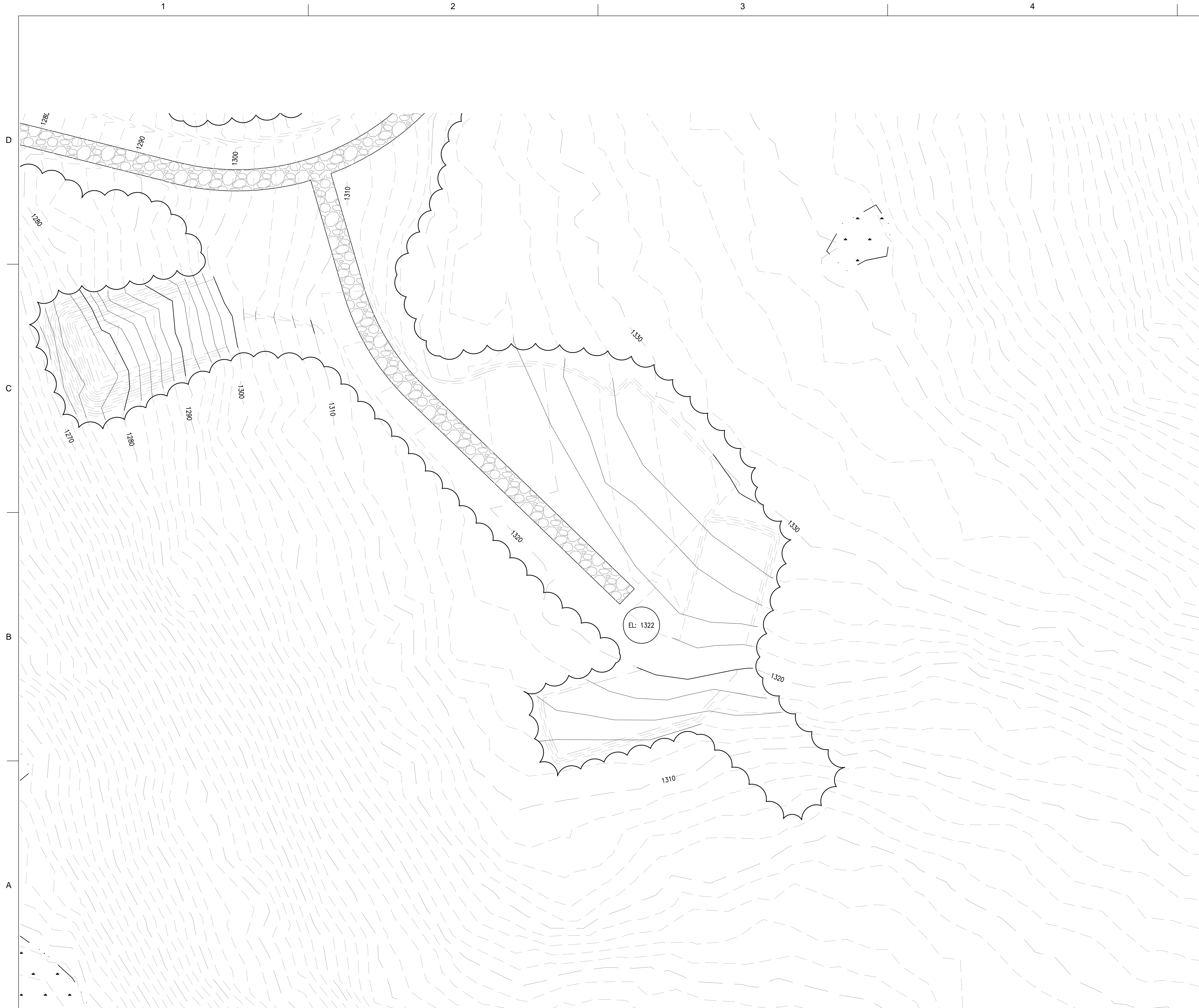
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DRAWN BY:	12-01-10
REVISION:	
CHKD BY:	
TLC:	
FILE NUMBER:	
1385	
FILE NAME:	
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ZAPATA
 6502 LAWRENCE ROAD, SUITE 200A, FARMINGTON, CT 06030
 PHONE: (860) 356-8540
 FAX: (860) 356-8541
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-NOFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION ONE AND
 CRANE ASSEMBLY AREA POST CONSTRUCTION
 GRADING PLAN

SHEET
 IDENTIFICATION
C-308



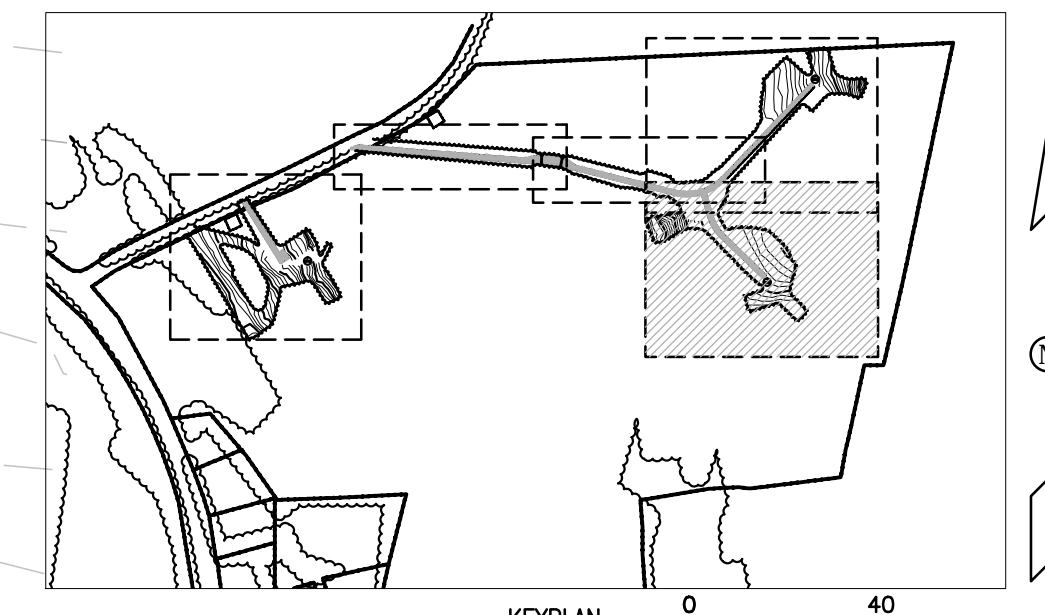


LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
		VEGETATION
		POST CONSTRUCTION VEGETATION LINE
		COMPACTED EARTH
		WETLAND
		GRAVEL

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DESIGNED BY:	DATE:	CHK BY:	FILE NUMBER:
RSW	12-01-10	TLK	1385

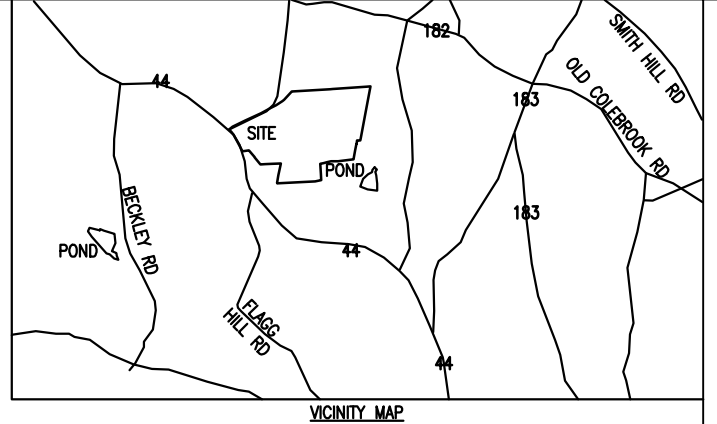
ZAPATA
 6502 WARREN ROAD, SUITE 200A, WARREN, CT 06495
 PHONE: (203) 356-8540
 FAX: (203) 356-8541
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION TWO
 POST CONSTRUCTION
 GRADING PLAN

SHEET
 IDENTIFICATION
C-309



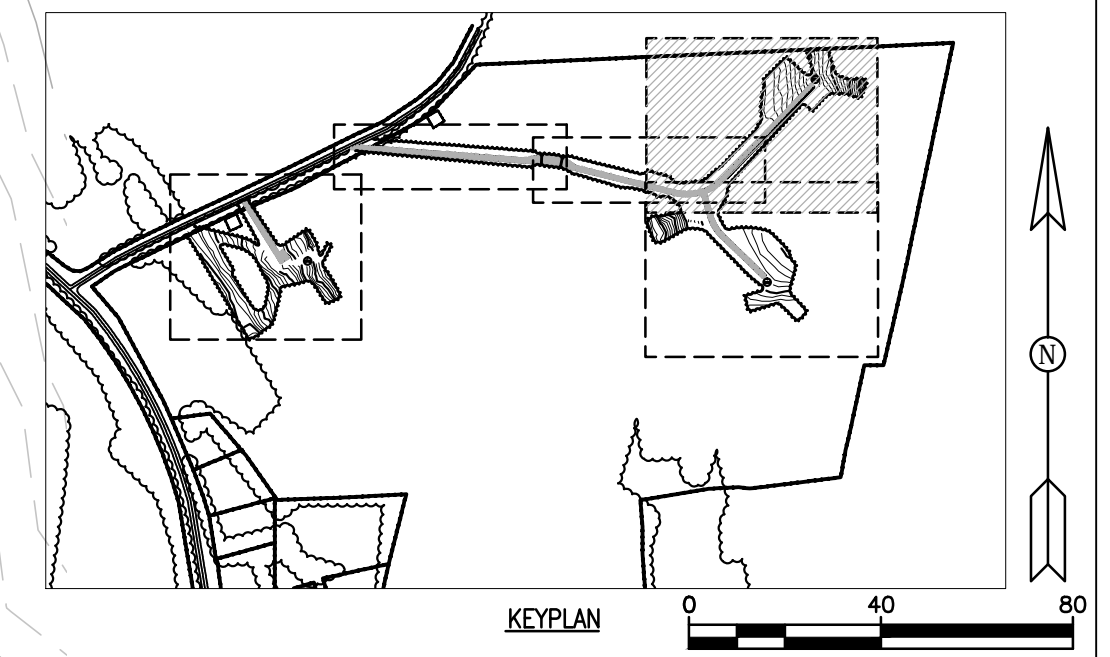
NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY



LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
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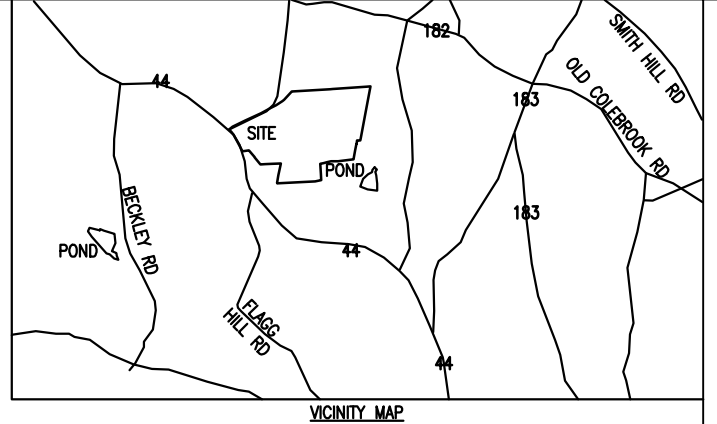
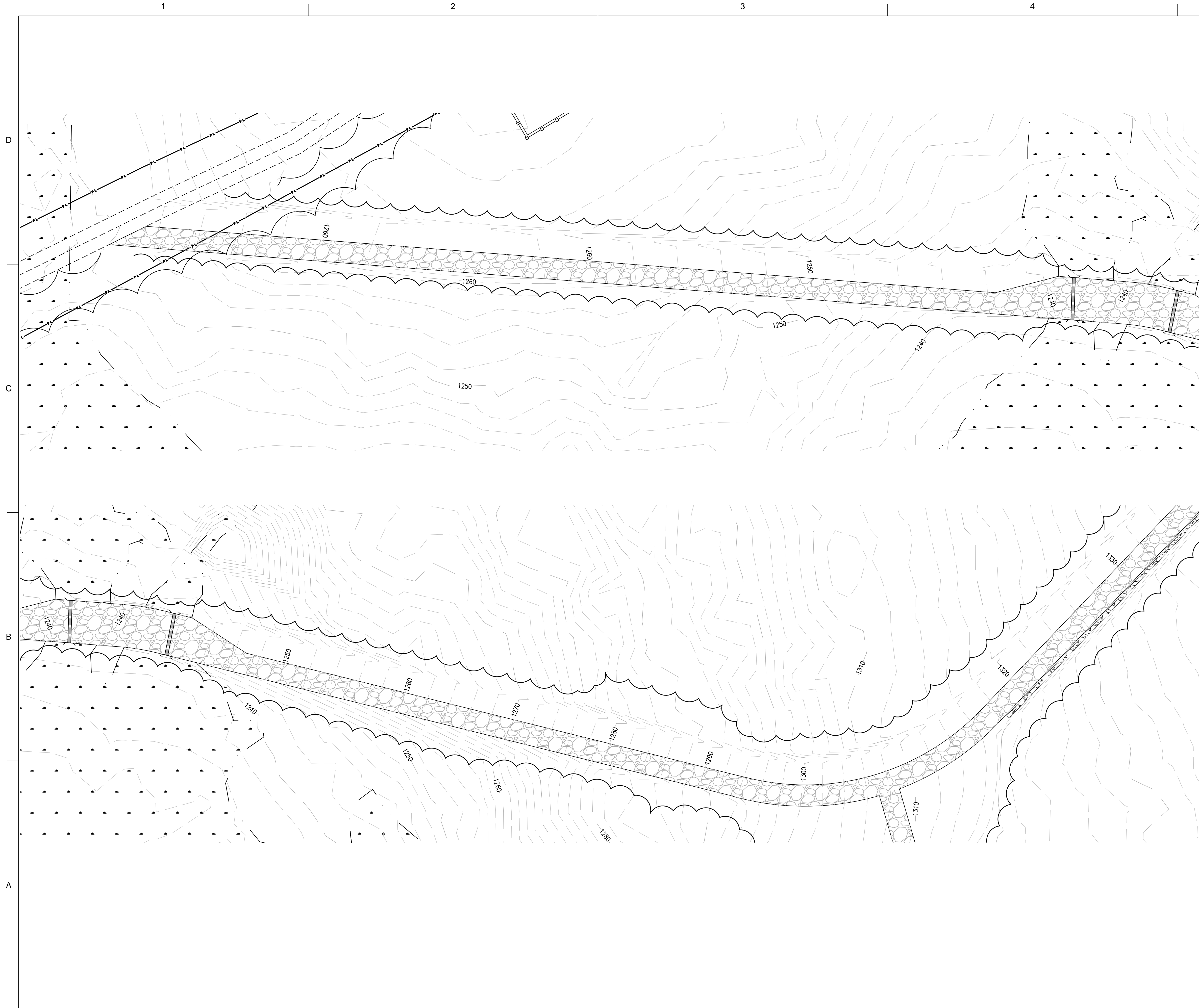
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DRAWN BY:	12-01-10
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CHKD BY:	
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SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385
PLOT SCALE:	AS SHOWN
FILE NAME:	
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ZAPATA
 6502 LAWRENCE ROAD, SUITE 100A, WINDHAM, ME 04986
 PHONE: (207) 356-8540
 FAX: (207) 356-8541
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-NOFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION THREE
 POST CONSTRUCTION
 GRADING PLAN

SHEET IDENTIFICATION
C-310

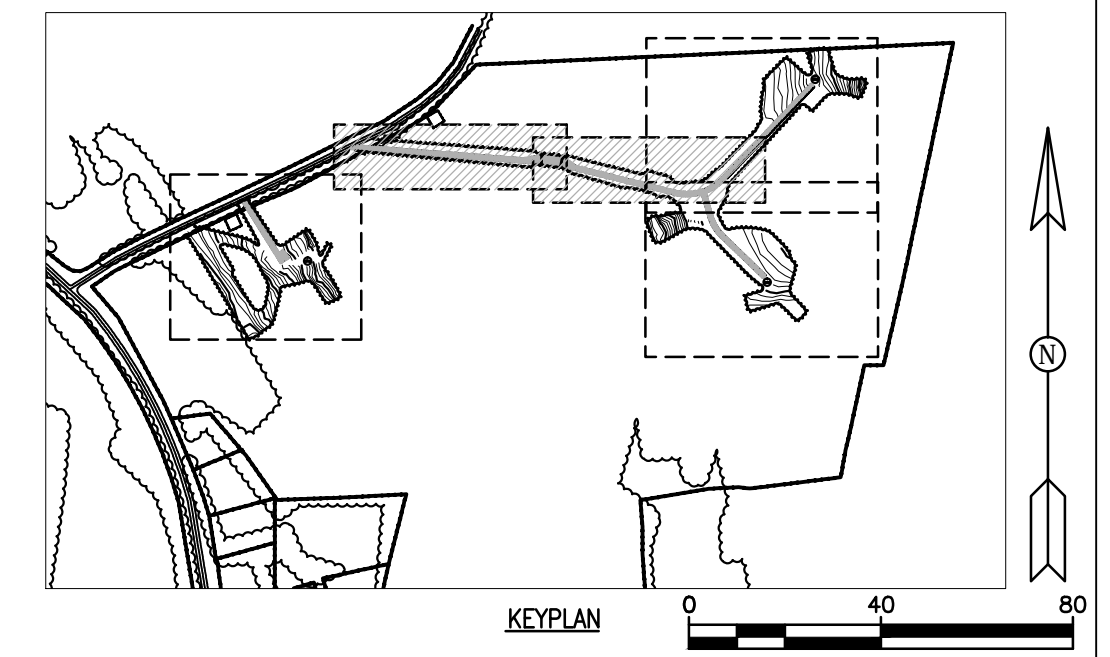




LEGEND

	C P	CULVERT PIPE
		DITCH LINE
		EXISTING TOPO
		NEW TOPO
		WETLAND LIMITS
		VEGETATION
		POST CONSTRUCTION VEGETATION LINE
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TLK	
FILE NUMBER:	1385
FILE NAME:	

ZAPATA
 ENGINEERING & ARCHITECTURE
 6502 LAWRENCE ROAD, SUITE 200A, WINDHAM, ME 04997
 TEL: 207-875-1111 FAX: 207-875-1112
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WINDST-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 CRANE ROAD STA: 0+00 TO 17+00
 POST CONSTRUCTION
 GRADING PLAN

SHEET
 IDENTIFICATION
C-311



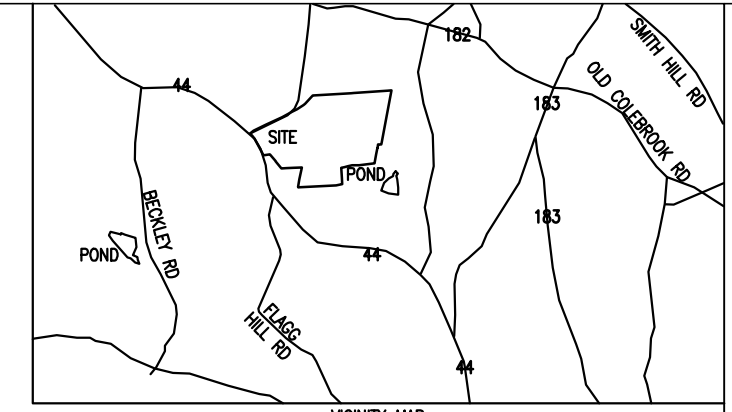
NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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- LEGEND**
- UPLAND MEADOW CREATION AREA
 - WETLAND RESTORATION AREA
 - STREAMBANK STABILIZATION AREA

WETLAND RESTORATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

1. PRIOR TO ANY EARTHWORK, A SILT FENCE EROSION CONTROL BARRIER WILL BE INSTALLED BETWEEN THE EXISTING WETLAND AND WETLAND RESTORATION AREA.
2. A QUALIFIED WETLAND SCIENTIST RESPONSIBLE FOR THE WETLAND RESTORATION AREA SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THE MITIGATION PROJECT.
3. NO GRADING IS PROPOSED WITHIN THE WETLAND RESTORATION AREAS AND AS SUCH, THE EXISTING SOIL MEDIUM SHOULD BE SUFFICIENT TO SUPPORT THE PROPOSED PLANTINGS. IF THE WETLAND SCIENTIST DEEMS THE SOIL MEDIUM TO BE INADEQUATE, THE AREA WILL BE BACKFILLED WITH A MINIMUM OF 6 INCHES OF CLEAN TOPSOIL.
4. WETLAND RESTORATION AREA PLANTINGS SHALL TAKE PLACE ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED. THE WETLAND RESTORATION AREA WILL BE PLANTED WITH NATIVE TREES, SHRUBS AND HERBACEOUS VEGETATION AS NOTED IN THE PLANTING SCHEDULE.
5. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
6. ALL PLANTINGS TO BE SPACED RANDOMLY AT THE DIRECTION OF THE WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF THE PLANT MATERIAL IN THE RESTORATION AREA. A MAINTENANCE SCHEDULE FOR IRRIGATION WILL BE ESTABLISHED BY THE CONTRACTOR. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR THE FULL TWELVE (12) MONTH PERIOD.
8. THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED PROMPTLY FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

UPLAND MEADOW CREATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

1. PRIOR TO ALL WORK, EROSION CONTROL BARRIERS ARE TO BE INSTALLED AS DETAILED ON THE EROSION CONTROL PLAN.
2. WHERE ADEQUATE TOPSOIL (±6 INCHES) DOES NOT EXIST, THE UPLAND MEADOW CREATION AND RESTORATION AREAS SHALL THEN BE BACKFILLED TO A MINIMUM DEPTH OF 6 INCHES WITH CLEAN TOPSOIL. ONCE FINAL TOPSOIL IS IN PLACE, IT SHALL BE GRADED TO ACHIEVE A RELATIVELY SMOOTH SURFACE.
3. ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED, THESE AREAS WILL BE PLANTED WITH NEW ENGLAND CONSERVATION/WILDLIFE GRASS SEED MIX AFTER THE GRADING IS COMPLETED. THE SEED MIX WILL BE APPLIED TO THE ENHANCEMENT AREA AT A RATE OF 1 LB/1,750 SQUARE FEET. SOIL CONDITIONING ACTIVITIES, INCLUDING RAKING, WILL BE COMBINED WITH THE SEED APPLICATION PROCESS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF NATIVE PLANT MATERIAL IN THESE AREAS. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR A FULL TWENTY FOUR (24) MONTH PERIOD.
5. THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

UPLAND MEADOW CREATION AREA PLANTING SCHEDULE

UPLAND MEADOW CREATION AREA WILL BE PLANTED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX (OR EQUIVALENT) AT 1750 SQ.FT./LB. OR AS RECOMMENDED BY MANUFACTURER. SEED MIX TO BE PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000), OR APPROVED SUPPLIER.

Wetland Restoration Area Planting Schedule (± 1020 sq.ft.)

Botanical Name	Common Name	Size	Spacing (minimum)	Quantity
Trees				
Acer rubrum	Red Maple	4-6 feet	10 feet	3
Shrubs				
Aronia melanocarpa	Black Chokeberry	3-4 feet	5 feet	10
Lindera benzoin	Common Spicebush	3-4 feet	5 feet	10
Viburnum dentatum	Northern Arrowwood	3-4 feet	5 feet	10

WETLAND RESTORATION AREA WILL BE UNDER-SOWN WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX (OR EQUIVALENT) AT 1750 SQ.FT./LB. OR AS RECOMMENDED BY MANUFACTURER. SEED MIX TO BE PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000), OR APPROVED SUPPLIER.



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SUBMITTED BY: <th>AS SHOWN</th> <th>FILE NAME:</th> <th>ANSI D</th>	AS SHOWN	FILE NAME:	ANSI D
BNE ENERGY	12-01-10		

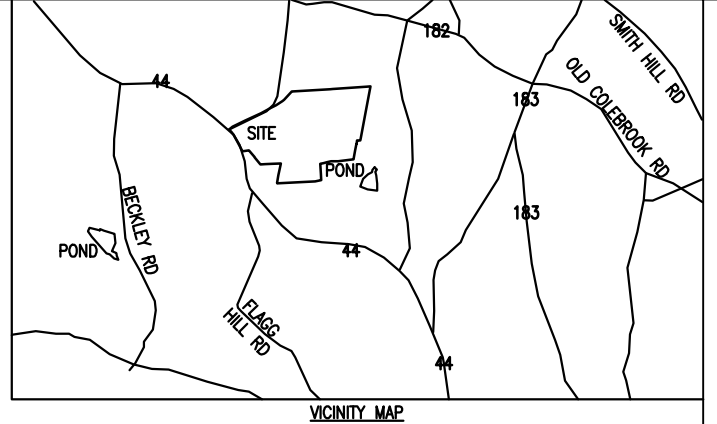
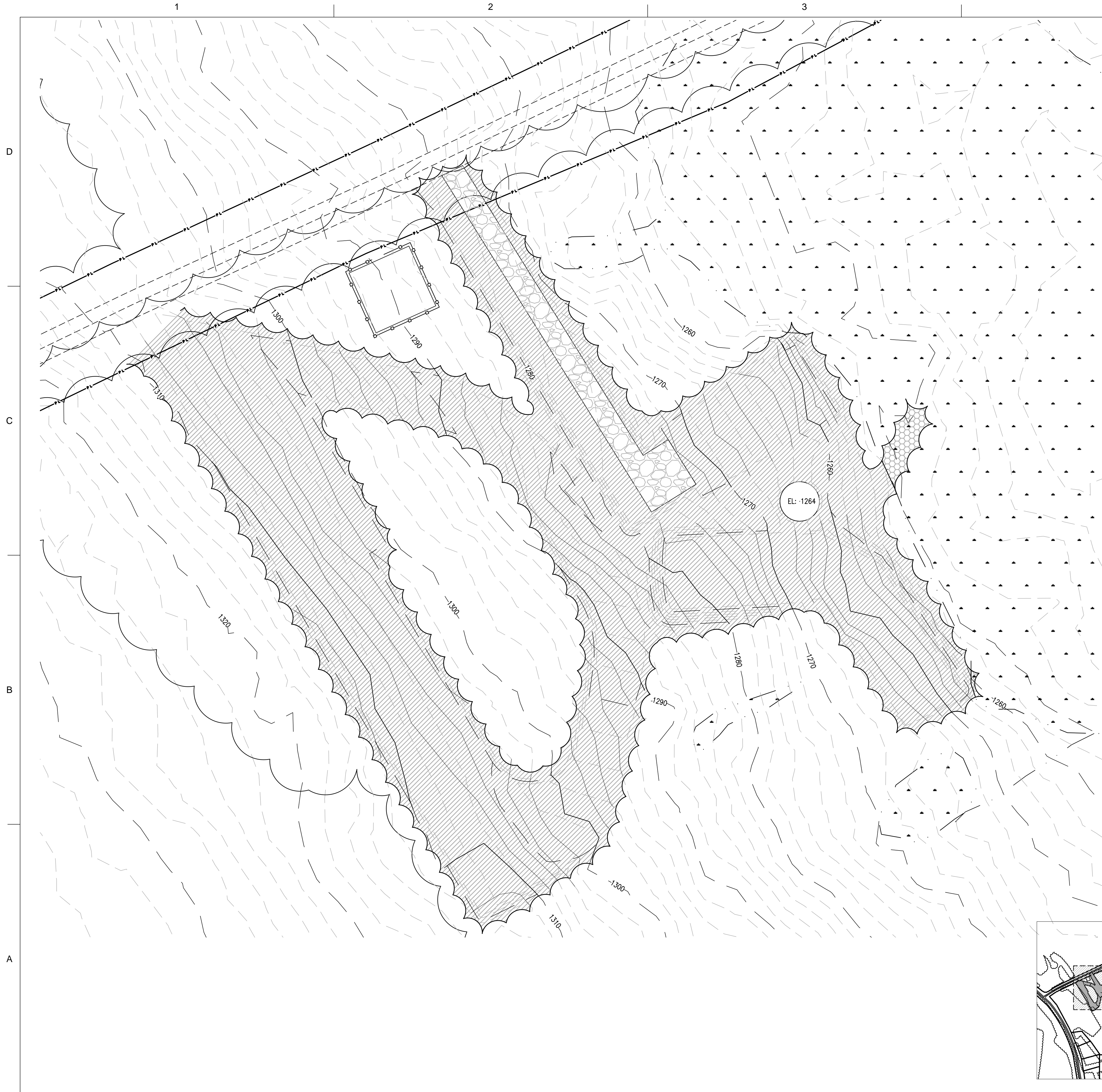
ZAPATA
 6302 LAWRENCE ROAD
 WINDHAM, MAINE 04092
 PHONE: (207) 356-8940
 FAX: (207) 356-8947
 WWW.ZAPATAINC.COM

WIND COLEBROOK NORTH
 WIND-NOFOLK ROAD
 COLEBROOK, CONNECTICUT
 UPLAND MEADOW CREATION AND RESTORATION
 AND WETLAND RESTORATION PLAN

SHEET IDENTIFICATION
C-312



NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY



LEGEND

	UPLAND MEADOW CREATION AREA
	WETLAND RESTORATION AREA
	STREAMBANK STABILIZATION AREA

WETLAND RESTORATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

- PRIOR TO ANY EARTHWORK, A SILT FENCE EROSION CONTROL BARRIER WILL BE INSTALLED BETWEEN THE EXISTING WETLAND AND WETLAND RESTORATION AREA.
- A QUALIFIED WETLAND SCIENTIST RESPONSIBLE FOR THE WETLAND RESTORATION AREA SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THE MITIGATION PROJECT.
- NO GRADING IS PROPOSED WITHIN THE WETLAND RESTORATION AREAS AND AS SUCH, THE EXISTING SOIL MEDIUM SHOULD BE SUFFICIENT TO SUPPORT THE PROPOSED PLANTINGS. IF THE WETLAND SCIENTIST DEEMS THE SOIL MEDIUM TO BE INADEQUATE, THE AREA WILL BE BACKFILLED WITH A MINIMUM OF 6 INCHES OF CLEAN TOPSOIL.
- WETLAND RESTORATION AREA PLANTINGS SHALL TAKE PLACE ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED. THE WETLAND RESTORATION AREA WILL BE PLANTED WITH NATIVE TREES, SHRUBS AND HERBACEOUS VEGETATION AS NOTED IN THE PLANTING SCHEDULE.
- ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- ALL PLANTINGS TO BE SPACED RANDOMLY AT THE DIRECTION OF THE WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF THE PLANT MATERIAL IN THE RESTORATION AREA. A MAINTENANCE SCHEDULE FOR IRRIGATION WILL BE ESTABLISHED BY THE CONTRACTOR. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR THE FULL TWELVE (12) MONTH PERIOD.

- THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED PROMPTLY FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

UPLAND MEADOW CREATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

- PRIOR TO ALL WORK, EROSION CONTROL BARRIERS ARE TO BE INSTALLED AS DETAILED ON THE EROSION CONTROL PLAN.
- WHERE ADEQUATE TOPSOIL (±6 INCHES) DOES NOT EXIST, THE UPLAND MEADOW CREATION AND RESTORATION AREAS SHALL THEN BE BACKFILLED TO A MINIMUM DEPTH OF 6 INCHES WITH CLEAN TOPSOIL. ONCE FINAL TOPSOIL IS IN PLACE, IT SHALL BE GRADED TO ACHIEVE A RELATIVELY SMOOTH SURFACE.
- ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED, THESE AREAS WILL BE PLANTED WITH NEW ENGLAND CONSERVATION/WILDLIFE GRASS SEED MIX AFTER THE GRADING IS COMPLETED. THE SEED MIX WILL BE APPLIED TO THE ENHANCEMENT AREA AT A RATE OF 1 LB/1,750 SQUARE FEET. SOIL CONDITIONING ACTIVITIES, INCLUDING RAKING, WILL BE COMBINED WITH THE SEED APPLICATION PROCESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF NATIVE PLANT MATERIAL IN THESE AREAS. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR A FULL TWENTY FOUR (24) MONTH PERIOD.
- THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

UPLAND MEADOW CREATION AREA PLANTING SCHEDULE

UPLAND MEADOW CREATION AREA WILL BE PLANTED WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX (OR EQUIVALENT) AT 1750 SQ.FT./LB. OR AS RECOMMENDED BY MANUFACTURER. SEED MIX TO BE PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000), OR APPROVED SUPPLIER.

Wetland Restoration Area Planting Schedule (± 1020 sq.ft.)

Botanical Name	Common Name	Size	Spacing (minimum)	Quantity
Acer rubrum	Red Maple	4-6 feet	10 feet	3
Shrubs				
Aronia melanocarpa	Black Chokeberry	3-4 feet	5 feet	10
Lindera benzoin	Common Spicebush	3-4 feet	5 feet	10
Viburnum dentatum	Northern Arrowwood	3-4 feet	5 feet	10

WETLAND RESTORATION AREA WILL BE UNDER-SOWN WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX (OR EQUIVALENT) AT 1750 SQ.FT./LB. OR AS RECOMMENDED BY MANUFACTURER. SEED MIX TO BE PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000), OR APPROVED SUPPLIER.

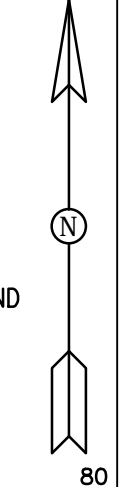
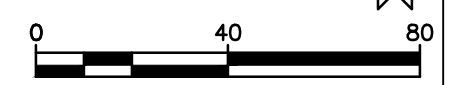
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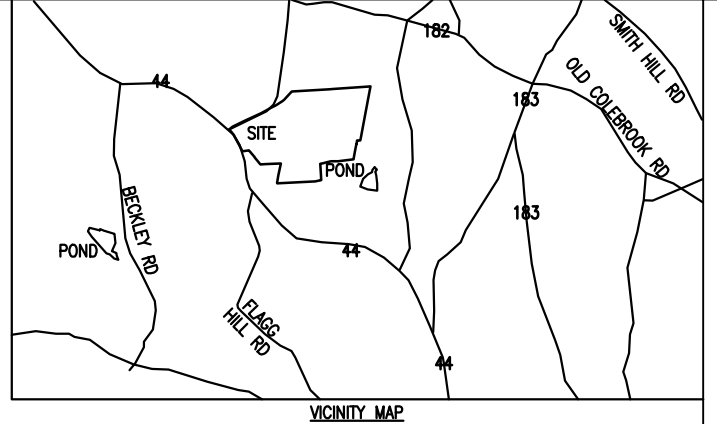
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WIND COLEBROOK NORTH
 WIND-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION ONE AND
 CRANE ASSEMBLY AREA
 UPLAND MEADOW (CREATION AND RESTORATION)
 AND WETLAND RESTORATION PLAN

SHEET IDENTIFICATION
C-313





LEGEND

	UPLAND MEADOW CREATION AREA
	WETLAND RESTORATION AREA
	STREAMBANK STABILIZATION AREA

WETLAND RESTORATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

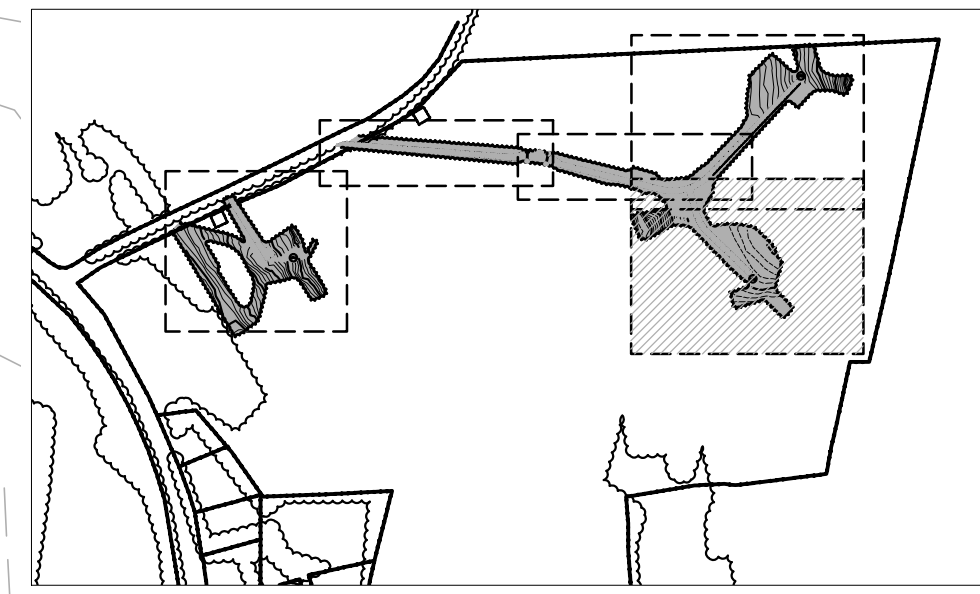
1. PRIOR TO ANY EARTHWORK, A SILT FENCE EROSION CONTROL BARRIER WILL BE INSTALLED BETWEEN THE EXISTING WETLAND AND WETLAND RESTORATION AREA.
2. A QUALIFIED WETLAND SCIENTIST RESPONSIBLE FOR THE WETLAND RESTORATION AREA SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THE MITIGATION PROJECT.
3. NO GRADING IS PROPOSED WITHIN THE WETLAND RESTORATION AREAS AND AS SUCH, THE EXISTING SOIL MEDIUM SHOULD BE SUFFICIENT TO SUPPORT THE PROPOSED PLANTINGS. IF THE WETLAND SCIENTIST DEEMS THE SOIL MEDIUM TO BE INADEQUATE, THE AREA WILL BE BACKFILLED WITH A MINIMUM OF 6 INCHES OF CLEAN TOPSOIL.
4. WETLAND RESTORATION AREA PLANTINGS SHALL TAKE PLACE ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED. THE WETLAND RESTORATION AREA WILL BE PLANTED WITH NATIVE TREES, SHRUBS AND HERBACEOUS VEGETATION AS NOTED IN THE PLANTING SCHEDULE.
5. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
6. ALL PLANTINGS TO BE SPACED RANDOMLY AT THE DIRECTION OF THE WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF THE PLANT MATERIAL IN THE RESTORATION AREA. A MAINTENANCE SCHEDULE FOR IRRIGATION WILL BE ESTABLISHED BY THE CONTRACTOR. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR THE FULL TWELVE (12) MONTH PERIOD.
8. THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED PROMPTLY FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

UPLAND MEADOW CREATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

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3. ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED, THESE AREAS WILL BE PLANTED WITH NEW ENGLAND CONSERVATION/WILDLIFE GRASS SEED MIX AFTER THE GRADING IS COMPLETED. THE SEED MIX WILL BE APPLIED TO THE ENHANCEMENT AREA AT A RATE OF 1 LB/1,750 SQUARE FEET. SOIL CONDITIONING ACTIVITIES, INCLUDING RAKING, WILL BE COMBINED WITH THE SEED APPLICATION PROCESS.
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UPLAND MEADOW CREATION AREA PLANTING SCHEDULE

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Wetland Restoration Area Planting Schedule (± 1020 sq.ft.)

Botanical Name	Common Name	Size	Spacing (minimum)	Quantity
Trees				
Acer rubrum	Red Maple	4-6 feet	10 feet	3
Shrubs				
Aronia melanocarpa	Black Chokeberry	3-4 feet	5 feet	10
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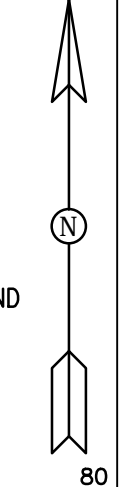
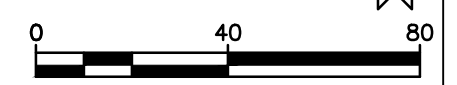
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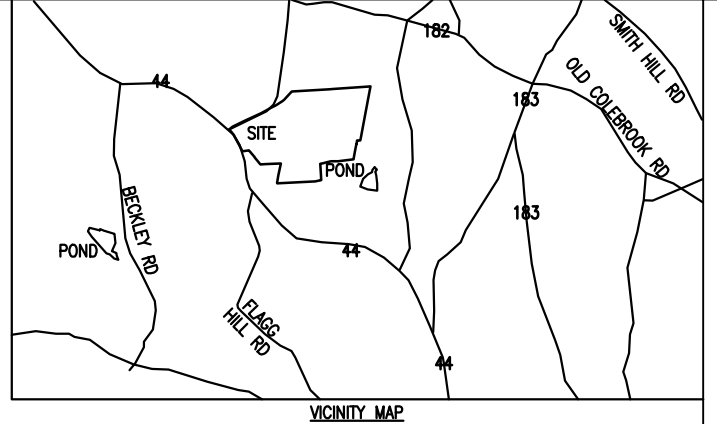
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WIND COLEBROOK NORTH
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 COLEBROOK, CONNECTICUT
 TURBINE LOCATION TWO
 UPLAND MEADOW CREATION AND RESTORATION
 AND WETLAND RESTORATION PLAN

SHEET
 IDENTIFICATION
C-314





LEGEND

	UPLAND MEADOW CREATION AREA
	WETLAND RESTORATION AREA
	STREAMBANK STABILIZATION AREA

WETLAND RESTORATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

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6. ALL PLANTINGS TO BE SPACED RANDOMLY AT THE DIRECTION OF THE WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS.
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UPLAND MEADOW CREATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

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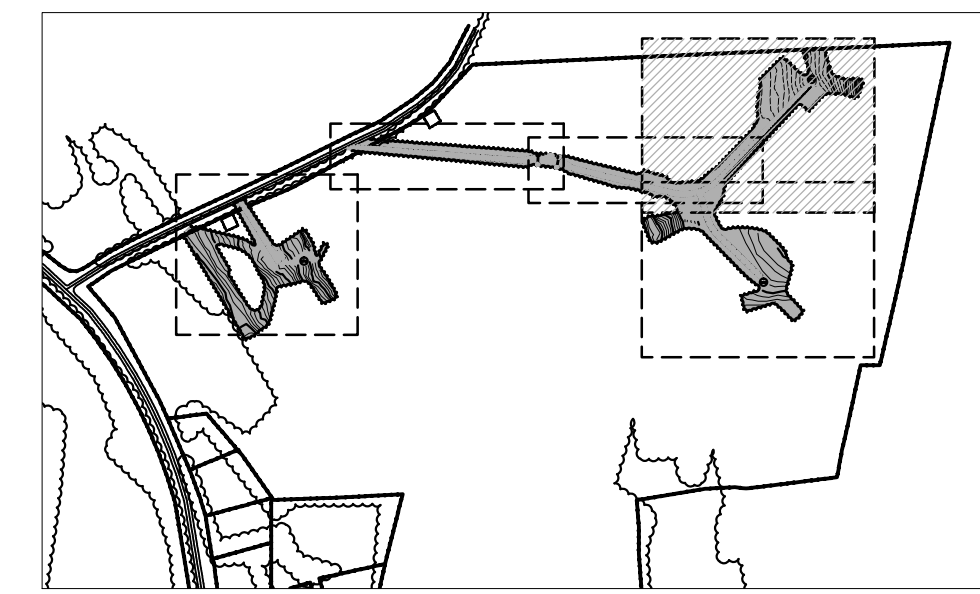
UPLAND MEADOW CREATION AREA PLANTING SCHEDULE

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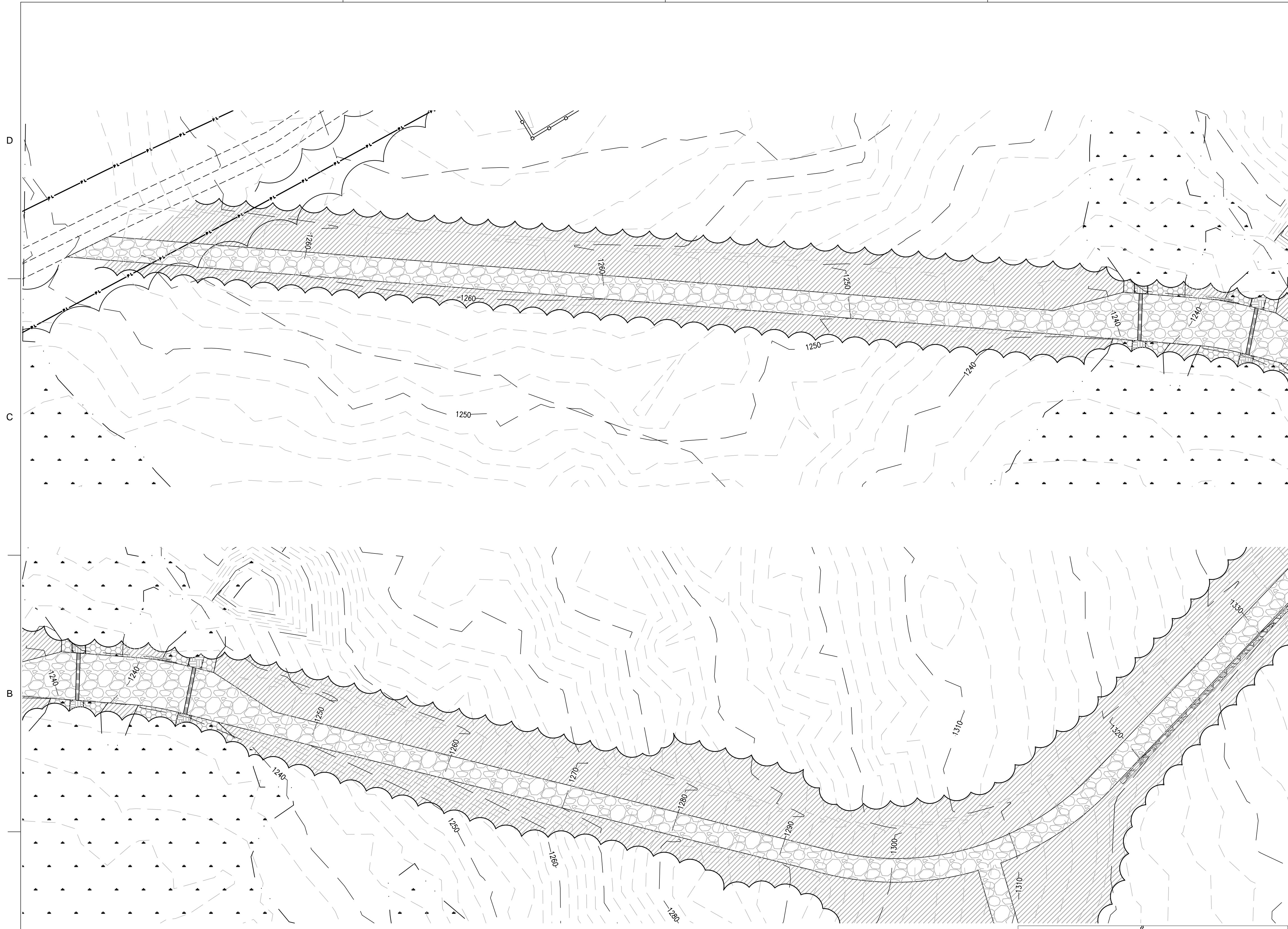
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 WIND COLEBROOK, CONNECTICUT
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WIND COLEBROOK NORTH
 WIND-NOBLE ROAD
 COLEBROOK, CONNECTICUT
 TURBINE LOCATION AND RESTORATION
 UPLAND MEADOW CREATION AND RESTORATION
 AND WETLAND RESTORATION PLAN

SHEET IDENTIFICATION
C-315

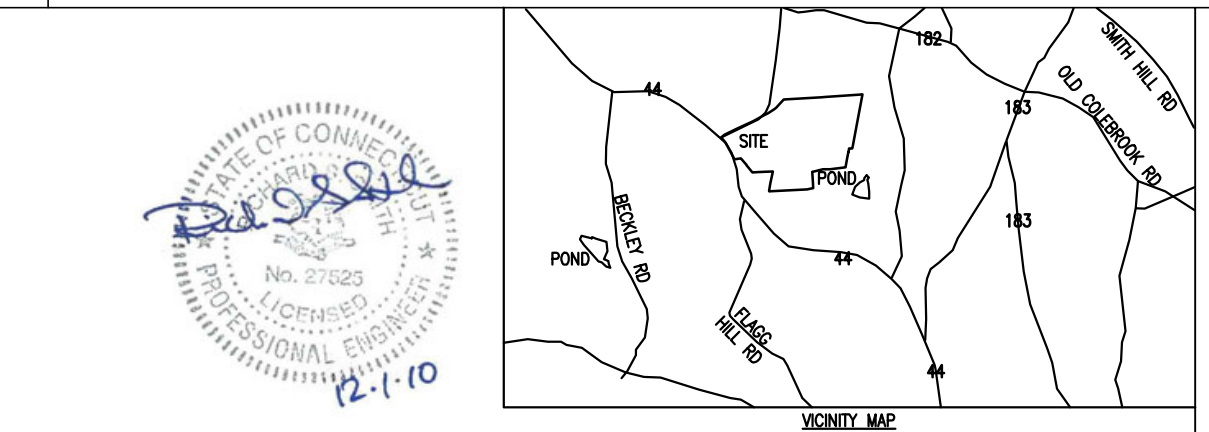
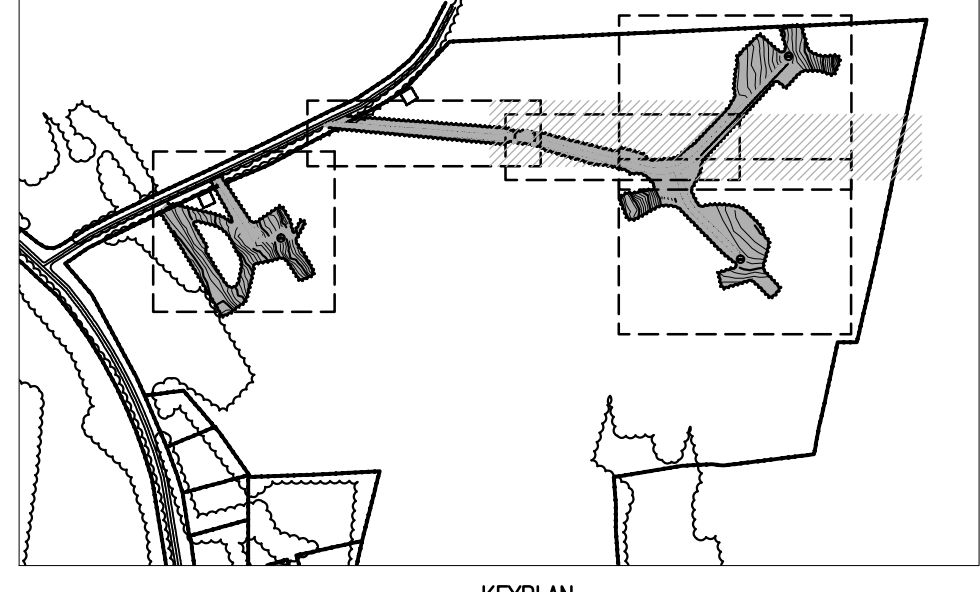


NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY



LEGEND

	UPLAND MEADOW CREATION AREA
	WETLAND RESTORATION AREA
	STREAMBANK STABILIZATION AREA



WETLAND RESTORATION AREA CONSTRUCTION SEQUENCE AND PLANTING SCHEDULE

1. PRIOR TO ANY EARTHWORK, A SILT FENCE EROSION CONTROL BARRIER WILL BE INSTALLED BETWEEN THE EXISTING WETLAND AND WETLAND RESTORATION AREA.
2. A QUALIFIED WETLAND SCIENTIST RESPONSIBLE FOR THE WETLAND RESTORATION AREA SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THE MITIGATION PROJECT.
3. MINIMAL OR NO GRADING IS PROPOSED WITHIN THE WETLAND RESTORATION AREAS AND AS SUCH, THE EXISTING SOIL MEDIUM SHOULD BE SUFFICIENT TO SUPPORT THE PROPOSED PLANTINGS. IF THE WETLAND SCIENTIST DEEMS THE SOIL MEDIUM TO BE INADEQUATE, THE AREA WILL BE BACKFILLED WITH A MINIMUM OF 6 INCHES OF CLEAN TOPSOIL.
4. WETLAND RESTORATION AREA PLANTINGS SHALL TAKE PLACE ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED. THE WETLAND RESTORATION AREA WILL BE PLANTED WITH NATIVE TREES, SHRUBS AND HERBACEOUS VEGETATION AS NOTED IN THE PLANTING SCHEDULE.
5. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
6. ALL PLANTINGS TO BE SPACED RANDOMLY AT THE DIRECTION OF THE WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF THE PLANT MATERIAL IN THE RESTORATION AREA. A MAINTENANCE SCHEDULE FOR IRRIGATION WILL BE ESTABLISHED BY THE CONTRACTOR. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR THE FULL TWELVE (12) MONTH PERIOD.
8. ROCKS AND BOULDERS, UNCOVERED DURING THE EXCAVATION, MAY BE LEFT IN PLACE PROVIDED THAT THEY DO NOT SIGNIFICANTLY DECREASE THE PLANTABLE AREA OF THE RESTORATION AREA. THESE ROCKS AND BOULDERS WILL BE PLACED IN SUCH A WAY AS TO PROVIDE CREVICES AND CAVITIES SUITABLE FOR USE BY WILDLIFE.
9. FALLEN LOGS, BRANCHES, STUMPS AND OTHER NATURAL DEBRIS WILL BE RELOCATED TO THE RESTORATION AREA TO PROVIDE BENEFICIAL HABITAT FEATURES FOR WILDLIFE. THIS WILL INCLUDE DOWNED AND UNCOVERED MATERIAL THAT IS ACQUIRED DURING GRADING ACTIVITIES AND WILL BE DISTRIBUTED TO COVER 2% OF THE AREA'S SUBSTRATE SURFACE. THE NATURAL DEBRIS SHOULD BE OF VARYING SIZES AND IN VARYING DEGREES OF DECOMPOSITION.
10. THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED PROMPTLY FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

STREAMBANK STABILIZATION AREA CONSTRUCTION SEQUENCE

1. PRIOR TO ALL WORK, EROSION CONTROL BARRIERS ARE TO BE INSTALLED BETWEEN THE STABILIZATION AREAS AND ADJACENT UNDISTURBED AREAS.
2. A QUALIFIED WETLAND SCIENTIST RESPONSIBLE FOR THE STREAMBANK STABILIZATION AREA SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THIS PROJECT.
3. THE STREAMBANK STABILIZATION AREA WAS PREVIOUSLY CLEARED. MINOR GRADING MAY BE REQUIRED TO INSTALL CULVERTS IN THESE AREAS AS SHOWN ON THE PLANS.
4. WHERE MINOR GRADING IS REQUIRED, THE STREAMBANK STABILIZATION AREA SHALL THEN BE BACKFILLED TO A MINIMUM DEPTH OF 6 INCHES WITH CLEAN TOPSOIL. ONCE FINAL TOPSOIL IS IN PLACE, IT SHALL BE GRADED TO ACHIEVE A RELATIVELY SMOOTH SURFACE.
5. STREAMBANK STABILIZATION AREA PLANTINGS SHALL TAKE PLACE ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED. THIS AREA WILL BE PLANTED WITH NATIVE SHRUBS AND HERBACEOUS VEGETATION AS NOTED IN THE PLANTING SCHEDULE AND UNDER SOWN WITH NEW ENGLAND CONSERVATION/WILDLIFE GRASS SEED MIX AFTER THE GRADING IS COMPLETED. THE SEED MIX WILL BE APPLIED TO THE STABILIZATION AREA AT A RATE OF 1 LB/1,750 SQUARE FEET. SOIL CONDITIONING ACTIVITIES, INCLUDING RAKING, WILL BE COMBINED WITH THE SEED APPLICATION PROCESS.
6. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
7. ALL PLANTINGS TO BE SPACED RANDOMLY AT THE DIRECTION OF THE WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH PATTERNS. PLANTINGS WILL BE SITUATED ALONG THE STREAM BANK FOR SLOPE STABILIZATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF NATIVE PLANT MATERIAL IN THE STABILIZATION AREA. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR A FULL TWENTY FOUR (24) MONTH PERIOD.
9. FALLEN LOGS, BRANCHES, STUMPS AND OTHER NATURAL DEBRIS WILL BE RELOCATED TO THE ENHANCEMENT AREA TO PROVIDE BENEFICIAL HABITAT FEATURES FOR WILDLIFE. THIS WILL INCLUDE DOWNED AND UNCOVERED MATERIAL THAT IS ACQUIRED ON SITE BY THE WETLAND SCIENTIST AND WILL BE DISTRIBUTED TO COVER 2% OF THE AREA'S SUBSTRATE SURFACE. THE NATURAL DEBRIS SHOULD BE OF VARYING SIZES AND IN VARYING DEGREES OF DECOMPOSITION.
10. THE EROSION CONTROL BARRIERS SHALL BE DISASSEMBLED FOLLOWING SUCCESSFUL STABILIZATION OF THIS AREA. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.

Wetland Restoration Area Planting Schedule (± 730 sq. ft.)

Botanical Name	Common Name	Size	Spacing (minimum)	Quantity
Trees				
<i>Acer rubrum</i>	Red Maple	4-6 feet	10 feet	3
Shrubs				
<i>Aronia melanocarpa</i>	Black Chokeberry	3-4 feet	5 feet	6
<i>Lindera benzoin</i>	Common Spicebush	3-4 feet	5 feet	6
<i>Viburnum dentatum</i>	Northern Arrowwood	3-4 feet	5 feet	6

WETLAND RESTORATION AREA WILL BE UNDER-SOWN WITH NEW ENGLAND CONSERVATION/ WILDLIFE MIX (OR EQUIVALENT) AT 1750 SQ.FT./LB. OR AS RECOMMENDED BY MANUFACTURER. SEED MIX TO BE PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. (413-548-8000), OR APPROVED SUPPLIER.

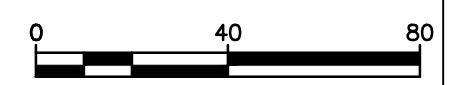
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1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

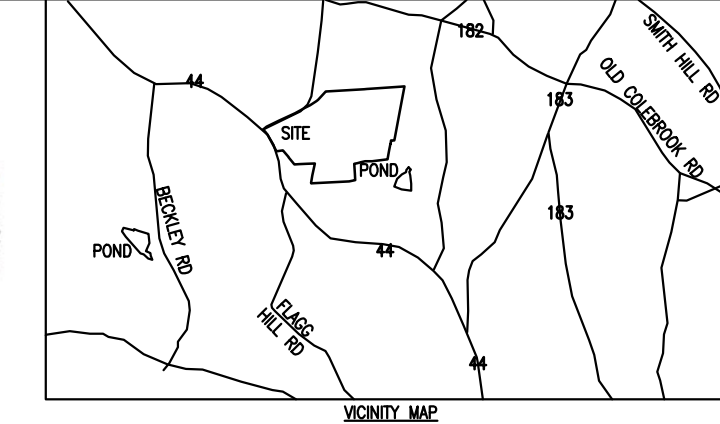
DESIGNED BY:	DATE:
BNE ENERGY	12-01-10

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WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD
 COLEBROOK, CONNECTICUT
 CRANE ROAD STA: 0+00 TO 17+00
 UPLAND MEADOW CREATION AND RESTORATION
 AND WETLAND RESTORATION PLAN

SHEET IDENTIFICATION
C-316





BNE Energy Inc.
Producer of green clean energy



PROJECT DESCRIPTION

THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF TWO WIND TURBINES, ACCESS ROAD AND OTHER RELATED SUPPORT STRUCTURES.

SITE DESCRIPTION

LOCATED AT WINSTED-NORFOLK ROAD, THE PROJECT SITE CURRENTLY CONSISTS OF APPROXIMATELY 125 ACRES OF PRIMARILY UNDEVELOPED PROPERTY. THE PROPERTY IS LOCATED APPROXIMATELY 1,050 FEET FROM THE NORFOLK TOWN LINE AND APPROXIMATELY 3,900 FEET FROM THE WINSTED/WINCHESTER TOWN LINE. THOUGH THE SURROUNDING LAND USES ARE MIXED, CONSISTING OF BOTH COMMERCIAL AND RESIDENTIAL DEVELOPMENT, THE PROPERTY IS LOCATED IN THE R-2 RESIDENTIAL ZONE. THE SITE IS CURRENTLY ACCESSED VIA ROCK HALL ROAD. THIS ACCESS POINT WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. CURRENTLY, THERE ARE NO STRUCTURAL STORMWATER DISCHARGE POINTS. ALL STORMWATER FLOWS OVER LAND TO DISCHARGE POINTS OFF SITE.

PLANNED SEDIMENTATION AND CONTROL PRACTICES

SEDIMENT FENCE (GSF): WILL RETAIN SEDIMENT FROM SMALL DISTURBED AREAS. SEDIMENT FENCE WILL BE PLACED ALONG SLOPES AS SHOWN ON CONSTRUCTION DETAILS. THE CONTRACTOR WILL USE HIS BEST JUDGMENT TO INSTALL ADDITIONAL SEDIMENT FENCE AS NECESSARY TO PREVENT LOSS OF SEDIMENT. REFER TO SECTION 5-11 OF 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

MAINTENANCE: INSPECT THE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. WHEN USED FOR DEWATERING OPERATIONS, REMOVE THE SEDIMENT DEPOSITS, OR IF ROOM ALLOWS, INSTALL A SECOND SILT FENCE UP SLOPE FROM THE EXISTING FENCE. WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE EXISTING FENCE, REPLACE OR REPAIR WITHIN 24 HOURS OF AN OBSERVED FAILURE. REFER TO CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FIGURE GF-5 FOR TROUBLESHOOTING FAILURES. MAINTAIN SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.

HAY BALE BARRIER (HB): WILL RETAIN SEDIMENT FROM SMALL DISTURBED AREAS. HAY BALES WILL BE PLACED ALONG SLOPES AS SHOWN ON CONSTRUCTION DETAILS. THE CONTRACTOR WILL USE HIS BEST JUDGMENT TO INSTALL ADDITIONAL HAY BALES AS NECESSARY TO PREVENT LOSS OF SEDIMENT. REFER TO SECTION 5-11 OF 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

MAINTENANCE: INSPECT THE HAY BALE BARRIER AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. WHEN USED FOR DEWATERING OPERATIONS, REMOVE THE SEDIMENT DEPOSITS, OR IF ROOM ALLOWS, INSTALL A SECONDARY BARRIER UP SLOPE FROM THE EXISTING BARRIER WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. REPLACE OR REPAIR WITHIN 24 HOURS OF AN OBSERVED FAILURE. REFER TO CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FIGURE HB-5 FOR TROUBLESHOOTING FAILURES. MAINTAIN HAY BALE BARRIER UNTIL THE CONTRIBUTING AREA IS STABILIZED.

STONE CHECK DAM (SCD): WILL BE USED TO REDUCE VELOCITY OF CONCENTRATED FLOWS, THUS REDUCING EROSION OF THE DRAINAGE WAY.

MAINTENANCE: INSPECT THE STONE CHECK DAM AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. REMOVE THE SEDIMENT DEPOSITS WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE CHECK DAM. REPLACE OR REPAIR WITHIN 24 HOURS OF AN OBSERVED FAILURE. MAINTAIN UNTIL THE CONTRIBUTING AREA IS STABILIZED.

TEMPORARY PIPE SLOPE DRAIN (TSD): WILL BE USED TO CARRY WATER OVER EXCESSIVE CHANGES IN GRADE. TSD'S WILL CONVEY CONCENTRATED STORM WATER RUNOFF FLOWS WITHOUT CAUSING EROSION PROBLEMS EITHER ON OR AT THE TOE OF THE SLOPE.

MAINTENANCE: INSPECT THE TEMPORARY PIPE SLOPE DRAIN AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. REPAIR DAMAGE AS NECESSARY. AVOID THE PLACEMENT OF ANY MATERIAL ON THE TOP OF THE PIPE AND PREVENT VEHICULAR TRAFFIC FROM CROSSING THE SLOPE DRAIN.

TEMPORARY DIVERSION (TD): WILL BE USED TO DIVERT SEDIMENT LADEN RUNOFF FROM A DISTURBED AREA TO A SEDIMENT TRAPPING FACILITY.

MAINTENANCE: WHEN THE TEMPORARY DIVERSION IS LOCATED WITHIN CLOSE PROXIMITY TO ON GOING CONSTRUCTION ACTIVITIES, INSPECT THE DIVERSION AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT. OTHERWISE, INSPECT THE TEMPORARY DIVERSION AND ASSOCIATED MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. REPAIR WITHIN 24 HOURS OF AN OBSERVED FAILURE.

TEMPORARY FILL BERM (TFB): WILL BE USED TO DIVERT RUNOFF FROM UNPROTECTED FILL SLOPES DURING CONSTRUCTION TO A STABILIZED OUTLET OR SEDIMENT TRAPPING FACILITY.

MAINTENANCE: INSPECT THE TEMPORARY FILL BERM AND ASSOCIATED CONTROLS AT THE END OF EACH WORK DAY TO ENSURE THE CRITERIA FOR INSTALLING THE MEASURES HAVE BEEN MET. DETERMINE IF REPAIR OR MODIFICATION IS NEEDED. THIS MEASURE IS TEMPORARY AND UNDER MOST SITUATIONS WILL BE COVERED THE NEXT WORK DAY. MAINTENANCE REQUIREMENTS SHOULD BE MINIMAL. THE CONTRACTOR SHOULD AVOID PLACING OTHER MATERIAL OVER THE BERM AND CONSTRUCTION

TRAFFIC SHOULD NOT BE ALLOWED TO CROSS.

TEMPORARY SEDIMENT TRAP (TST): WILL BE USED TO DETAIN SEDIMENT LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW THE MAJORITY OF SEDIMENT TO SETTLE OUT.

MAINTENANCE: INSPECT THE TEMPORARY SEDIMENT TRAP AND ASSOCIATED CONTROLS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. CHECK THE OUTLET TO VERIFY THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE STONE OUTLET SHOULD BE MAINTAINED AT LEAST 1 FOOT BELOW THE CREST OF THE EMBANKMENT. WHEN SEDIMENT HAS ACCUMULATED MORE THAN ONE QUARTER OF THE MINIMUM WET STORAGE VOLUME, DEWATER AND REMOVE SEDIMENT AS NECESSARY TO RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.

CONSTRUCTION ENTRANCE (CE): WILL BE USED TO REDUCE TRACKING OF SEDIMENT OFF SITE TO PAVED AREAS.

MAINTENANCE: MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENT ONTO PAVED SURFACES. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS REQUIRED. IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES.

TREE PROTECTION (TP): WILL BE USED TO ENSURE THE SURVIVAL OF EXISTING DESIRABLE TREES FOR THEIR EFFECTIVENESS IN SOIL EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

MAINTENANCE: INSPECT TREE PROTECTION ZONES WEEKLY DURING SITE CONSTRUCTION FOR DAMAGE TO THE TREE CROWN, TRUNK AND ROOT SYSTEM. WHEN TREES HAVE BEEN DAMAGED OR THE PROTECTION ZONE HAS BEEN COMPROMISED, CONSULT AN ARBORIST LICENSED IN CT TO DETERMINE HOW DAMAGE SHOULD BE ADRESSED.

TEMPORARY EROSION CONTROL BLANKETS (ECB): WILL BE USED TO PROVIDE TEMPORARY SURFACE PROTECTION TO DISTURBED SOILS TO ABSORB RAINDROP IMPACT AND TO REDUCE SHEET AND RILL EROSION.

MAINTENANCE: INSPECT TEMPORARY EROSION CONTROL BLANKETS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS. REPAIR ANY DISLODGED OR FAILED BLANKETS IMMEDIATELY.

CONSTRUCTION SEQUENCE

ACCESS ROAD

- 1. FLAG THE LIMITS OF CONSTRUCTION, ROADWAY BASE-LINE, AND TREE PROTECTION ZONES.
- 2. CONDUCT PRECONSTRUCTION MEETING.
- 3. CONDUCT TREE CUTTING MEETING.
- 4. INSTALL THE CONSTRUCTION ENTRANCE.
- 5. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION DEVICES IN ACCORDANCE WITH THE E&S PLAN.
- 6. CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD, CHIP BRUSH AND SLASH, STOCKPILE CHIPS FOR FUTURE USE OR REMOVE OFF SITE
- 7. CONSTRUCT SEDIMENT TRAPS.
- 8. EXCAVATE ALL STUMPS LOCATED IN THE STRUCTURAL AREA AND REMOVE TO A DISPOSAL SITE OR STOCKPILE AREA TO BE CHIPPED. STUMPS IN NON-STRUCTURAL AREAS MAY BE GROUND IN PLACE OR CUT FLUSH WITH THE GROUND LEVEL AND LEFT IN PLACE IN ACCORDANCE WITH THE PLANS.
- 9. STRIP ALL TOPSOIL WITHIN THE ROADWAY BASE-LINE AND SLOPE LIMITS. STOCKPILE ALL TOPSOIL IN AN APPROVED AREA AND SECURE WITH EROSION AND SEDIMENT CONTROLS.
- 10. CUT OR FILL THE PROPOSED ROADWAY TO ESTABLISH THE SUB-GRADE.
- 11. PLACE, GRADE AND COMPACT THE AGGREGATE IN THE ROADWAY BASE.

EQUIPMENT LAY-DOWN AREAS

- 1. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING.
- 2. HOLD PRECONSTRUCTION MEETING.
- 3. FLAG REMAINDER OF THE LIMITS OF CONSTRUCTION AND TREE PROTECTION ZONES.
- 4. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION DEVICES IN ACCORDANCE WITH THE E&S PLAN.
- 5. CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD, CHIP

BRUSH AND LASH, STOCKPILE CHIPS FOR FUTURE USE OR REMOVE OFF SITE.

6. CONSTRUCT SEDIMENT TRAPS.

7. STRIP AND STOCKPILE ALL TOPSOIL THAT IS WITHIN THE FOOTPRINT OF THE CONSTRUCTION SITE AND REFERENCE STOCKPILE MANAGEMENT FOR EROSION AND SEDIMENT CONTROLS. EITHER REMOVE TREE STUMPS TO AN APPROVED DISPOSAL SITE OR CHIP IN PLACE AS INDICATED ON THE PLANS.

8. MAKE ALL CUTS AND FILLS REQUIRED. ESTABLISH THE SUB GRADE FOR THE EQUIPMENT LAY DOWN AREAS AS REQUIRED. ALLOW A REASONABLE AMOUNT OF AREA AROUND THE FOOTPRINT OF THE BUILDING FOR THE CONSTRUCTION ACTIVITIES.

9. BEGIN CONSTRUCTION OF THE TOWER.

10. PRIOR TO INSTALLING SURFACE WATER CONTROLS SUCH AS TEMPORARY DIVERSIONS AND STONE DIKES, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING WATER SURFACE CONTROLS.

11. UPON SUBSTANTIAL COMPLETION TOWERS, COMPLETE THE BALANCE OF SITE WORK AND STABILIZATION OF ALL OTHER DISTURBED AREAS.

12. AFTER SITE IS STABILIZED REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS.

STANDARD EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND LOCAL AGENCIES AS REQUIRED PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. UNLESS SPECIFICALLY WAIVED BY THE AGENCY A PRECONSTRUCTION CONFERENCE IS REQUIRED.

2. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLANS AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE AGENCY INSPECTOR AT THE BEGINNING OF ANY OTHER LAND DISTURBING ACTIVITY. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH APPROVAL OF ENGINEER AND/OR INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREA IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR APPROVAL. THE CONTRACTOR MUST OBTAIN PRIOR AGENCY APPROVAL FOR CHANGES TO THE SEDIMENT CONTROL PLAN AND / OR SEQUENCE OF CONSTRUCTION.

3. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIAL DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.

4. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATION CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED. ALL SEDIMENT BASINS, TRAP EMBANKMENTS AND SLOPES, PERIMETER DIKES, SWALES, AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH APPROVED STABILIZATION MEASURES AS SOON AS POSSIBLE BUT NO LATER THAN 7 DAYS AFTER ESTABLISHMENT. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

5. THE CONTRACTOR SHALL APPLY SOD OR SEED AND ANCHORED STRAW MULCH OR OTHER STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED IN THE AREA. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

6. PRIOR TO REMOVAL OF THE SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN PERFORMED TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 14 DAYS AFTER ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISH GRADE DURING THE MONTHS OF NOVEMBER TO FEBRUARY AND PERMANENT STABILIZATION IS IMPRACTICAL, TEMPORARY SEEDING AND ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS.

7. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

8. THE SITES APPROVAL LETTER, APPROVED EROSION CONTROL PLANS, DAILY LOG BOOKS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS.

9. SURFACE DRAINAGE FLOWS OVER UN-STABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING PROTECTIVE DEVICES TO LOWER THE WATER DOWN THE SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF A CUT OR FILL SLOPE UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING COMPLETED TO PROMOTE SHEET FLOW. PROTECTIVE MEASURES MUST BE EMPLOYED IN AREAS WHERE CONCENTRATE FLOW IS LIKELY TO OCCUR.

10. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING,

RIP-RAP, OR BY OTHER APPROVED STABILIZATION MEASURES. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED UPON APPROVAL OF INSPECTOR, WITHIN 30 DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTING DRAINAGE AREAS. STORM WATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO PERMANENT CONFIGURATION DURING THIS TIME PERIOD AS WELL.

11. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT GREATER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENTS GREATER THAT 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.

12. FOR FINISHED GRADING THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN 24 HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALES MAY TAKE UP TO 48 HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.

13. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A FOUNDATION THAT EXISTS OR IS UNDER CONSTRUCTION. NO STRUCTURES SHALL BE CONSTRUCTED WITHIN 20 FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.

14. THE SEDIMENT AND EROSION CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES IF DEEMED NECESSARY.

15. ALL TRAP DEPTHS DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. ALL TRAPS MUST HAVE A STABLE OUTFALL. ALL TRAPS AND BASINS MUST HAVE STABLE INFLOW POINTS.

16. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING, AND GROUND COVERS.

17. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OF BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE BOTTOM TO THE CREST OF THE OUTLET.

18. SEDIMENT REMOVED FROM THE TRAPS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND, OR TREE SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SLUMP PIT MAY BE UTILIZED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE FROM THE SITE.

19. WHERE DEEMED NECESSARY BY THE ENGINEER OR INSPECTOR, SEDIMENT TRAPS AND BASINS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS.

20. ALL WASTE AND BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

21. SITES WHERE INFILTRATION DEVICES ARE USED FOR THE CONTROL OF STORM WATER, EXTREME CARE MUST BE TAKEN TO PREVENT RUNOFF FROM UN-STABILIZED AREAS FROM ENTERING THE STRUCTURE DURING CONSTRUCTION. SEDIMENT CONTROL DEVICES PLACED IN INFILTRATION AREAS MUST HAVE BOTTOM ELEVATIONS AT LEAST 2 FEET HIGHER THAN THE FINISHED GRADE BOTTOM ELEVATION OF THE INFILTRATION PRACTICE. WHEN CONVERTING A SEDIMENT TRAP TO AN INFILTRATION DEVICE, ALL ACCUMULATED SEDIMENT MUST BE REMOVED AND DISPOSED OF PRIOR TO FINAL GRADING OF THE INFILTRATION DEVICE.

SITE INFORMATION:

TOTAL AREA: 125 ACRES
AREA TO BE CLEARED: 411842 SQ FT / 9.45 ACRES

CONSTRUCTION PHASE:
TOTAL CUT: 23108 CUBIC YARDS
TOTAL FILL: 19033 CUBIC YARDS

POST CONSTRUCTION PHASE:
TOTAL CUT: 2862 CUBIC YARDS
TOTAL FILL: 9336 CUBIC YARDS

OFF-SITE WASTE / BORROW AREA LOCATION: NOT APPLICABLE

SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

DESIGNED BY:	DATE:	12-01-10
DRAWN BY:	CHK BY:	TLK
REVISED BY:	TALK BY:	
SUBMITTED BY:	BNE ENERGY	FILE NUMBER:
PLOT SCALE:	AS SHOWN	PLOT DATE:
FILE NAME:	12-01-10	1385
ANSI D	FILE NUMBER:	

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**WIND COLEBROOK NORTH
WINSTED-NORFOLK ROAD
COLEBROOK, CONNECTICUT**

EROSION CONTROL NOTES

**SHEET IDENTIFICATION
C-500**

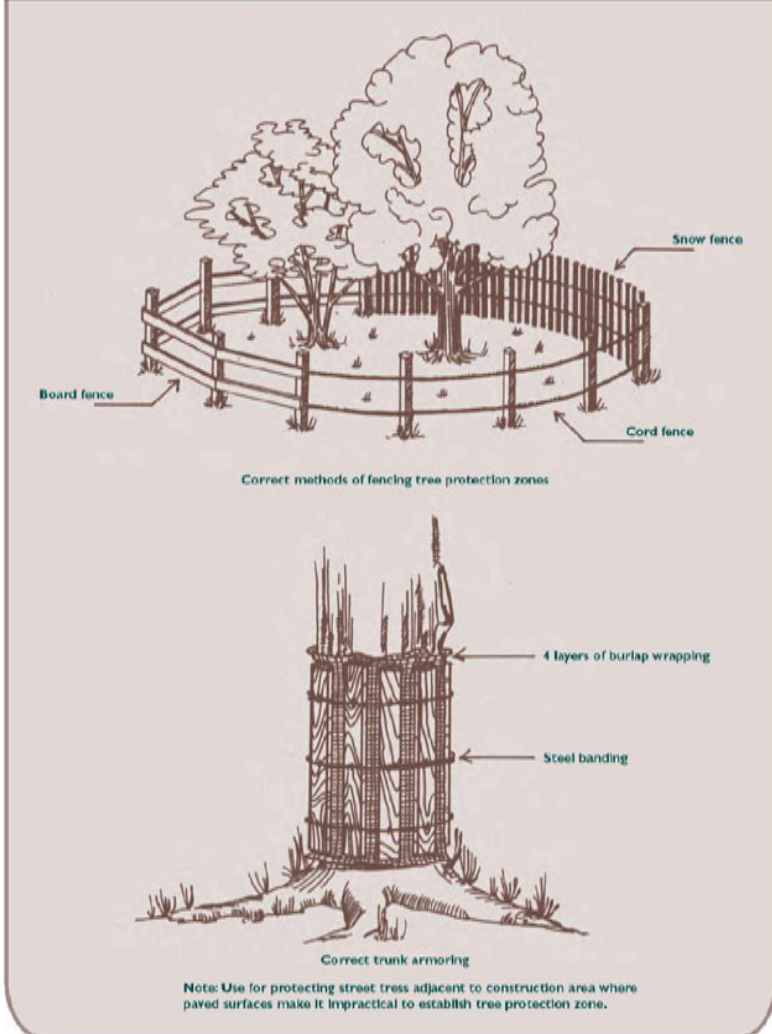
NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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Figure 1P-7 Mechanical Tree Protection



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1 TREE PROTECTION Scale: NTS

Figure 1S-1 Soil Texture vs. Living Rates

Table with 2 columns: Soil Texture and Living Rates. Rows include Clay loam, silty loam, silty clay loam, and loamy sand, with corresponding values for 1000 ft of line.

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2 TEMPORARY SEEDING Scale: NTS

Figure 1C-1 Chute Size Determination

Table with 2 columns: Group A and Group B. Rows include chute size, bottom width, and maximum discharge area.

2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

4 TEMPORARY LINED CHUTE Scale: NTS

Figure 7D-1 Temporary Diversion (TD)

Definition: A temporary diversion is a structure used to divert flow from a stabilized outlet or sediment trapping facility... Purposes: To divert sediment-laden runoff from a disturbed area... Applicability: When the discharge area is at the point of discharge...

2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

6 TEMPORARY DIVERSION Scale: NTS

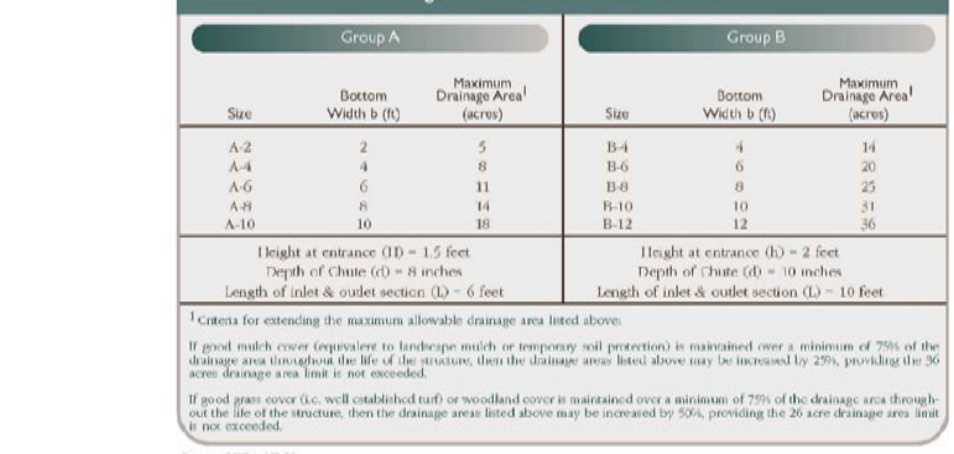
Figure 3V-1 Vegetative Soil Cover

Definition: Establishment of temporary stand of grass and/or legumes by seeding and sodding soils that will be exposed for a period greater than 1 month but less than 12 months... Purpose: To temporarily stabilize the soil and reduce damage from wind and soil water erosion... Specifications: Seed Selection, Timing Considerations, Site Preparation, Seeded Preparation.

2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

2 TEMPORARY SEEDING Scale: NTS

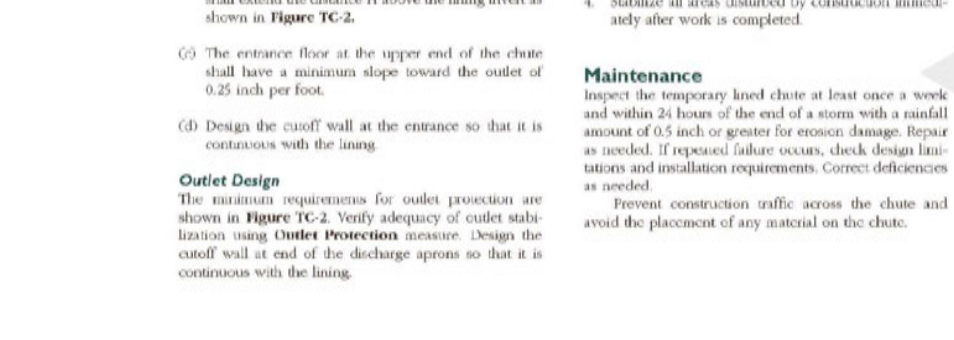
Figure 1C-2 Temporary Panel Chute Plan and Profile



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

2 TEMPORARY SEEDING Scale: NTS

Figure 1C-3 Subsurface Drain (SD)



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

7 SUB-SURFACE DRAIN Scale: NTS

Figure 1S-2 Temporary Seeding Rates and Dates

Table with columns: Species, Seeding Rate, and Seeding Dates. Rows include Annual ryegrass, Perennial ryegrass, Fescue, and various clovers.

Site Preparation and Installation: Prepare the surface, remove protruding objects and install temporary erosion control blankets... Maintenance: Inspect temporary erosion control blankets at least once a week...

2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

3 EROSION CONTROL BLANKET Scale: NTS

Figure 5S-1 Temporary Pipe Slope Drain (TSD)

Definition: A flexible or rigid pipe used to conduct water from the top of a slope to the toe of the slope... Purpose: To convey water over concrete grade changes... Planning Considerations: Temporary pipe slope drains should be planned and installed along with, or as part of, other erosion control practices...

2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

3 EROSION CONTROL BLANKET Scale: NTS

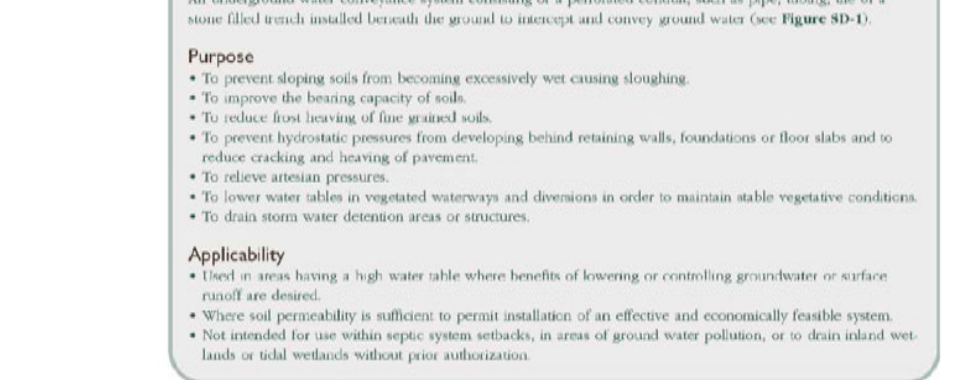
Figure 5S-2 Effect of Subsurface Drainage on the Water Table



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

5 TEMPORARY PIPE DRAIN Scale: NTS

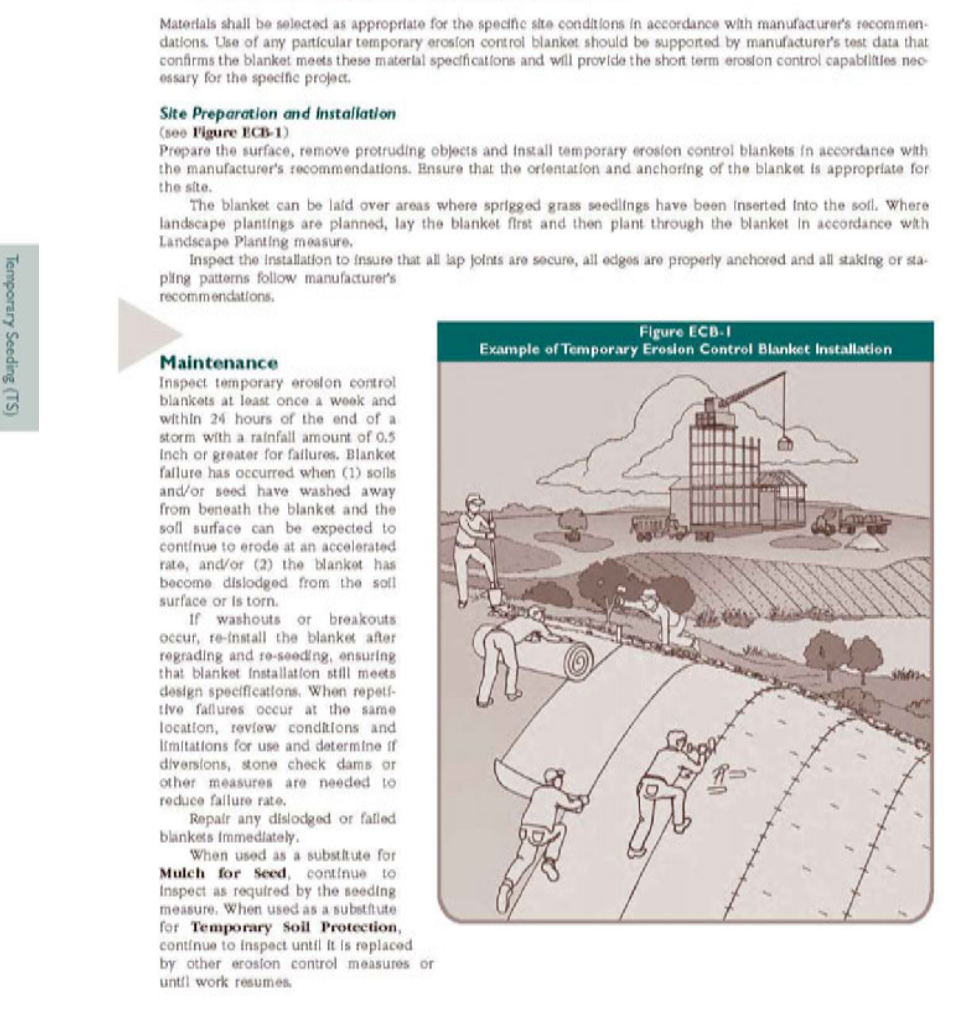
Figure 8S-1 Subsurface Drains With and Without a Cover



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

7 SUB-SURFACE DRAIN Scale: NTS

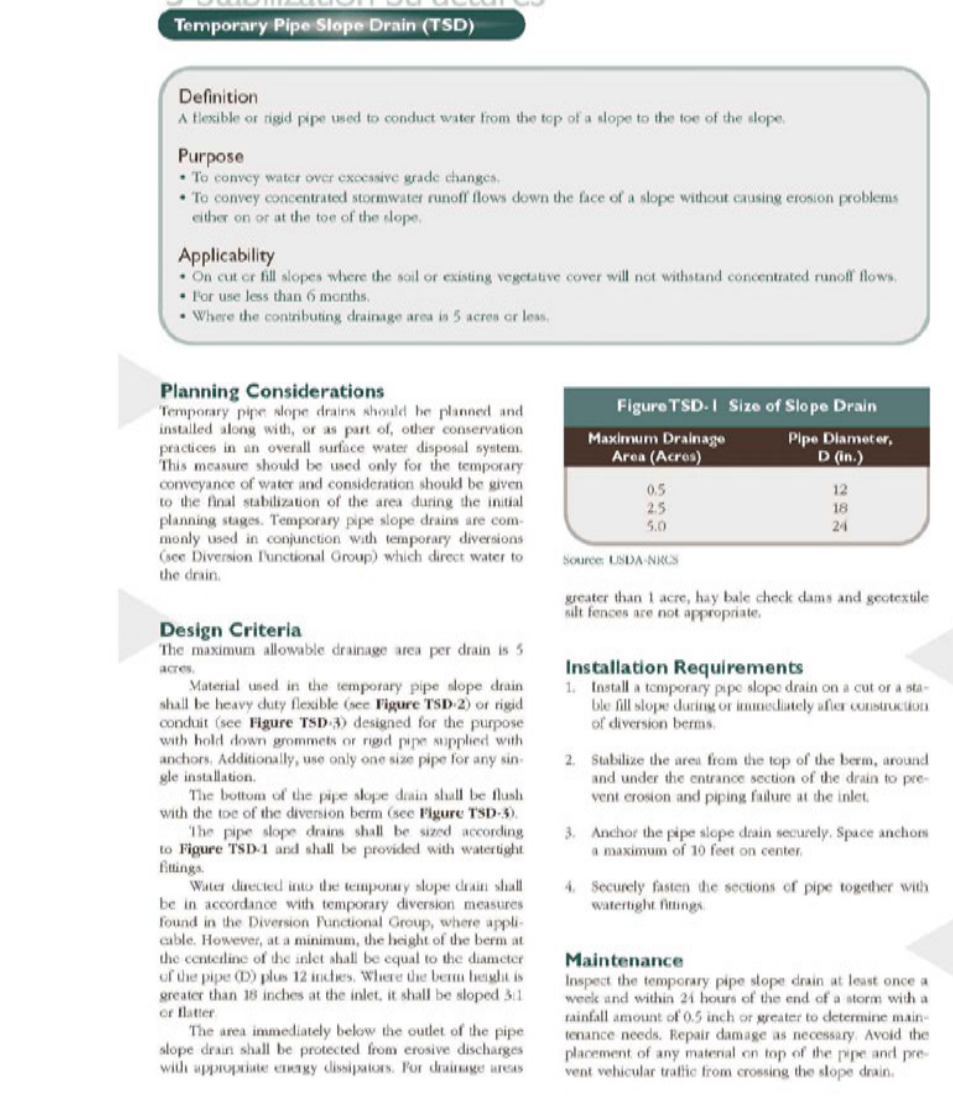
Figure ECB-1 Example of Temporary Erosion Control Blanket Installation



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

3 EROSION CONTROL BLANKET Scale: NTS

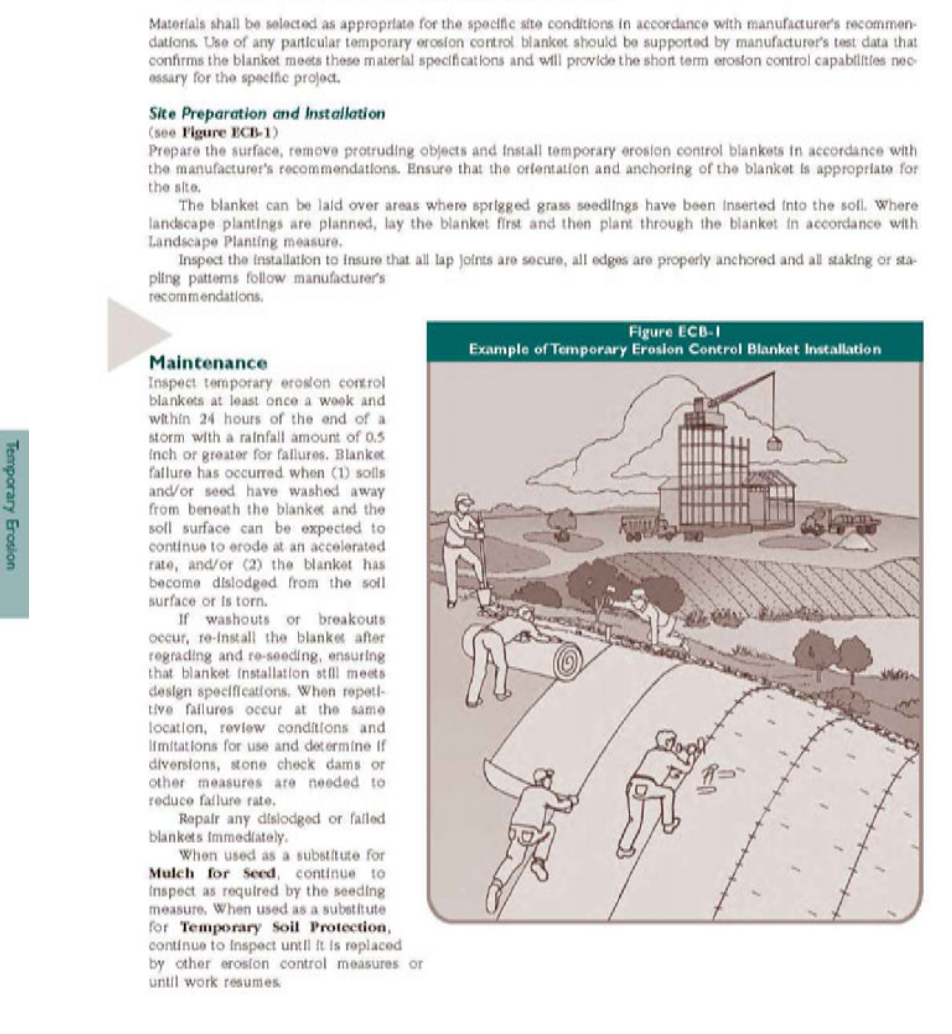
Figure ECB-2 Example of Temporary Erosion Control Blanket Installation



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5 TEMPORARY PIPE DRAIN Scale: NTS

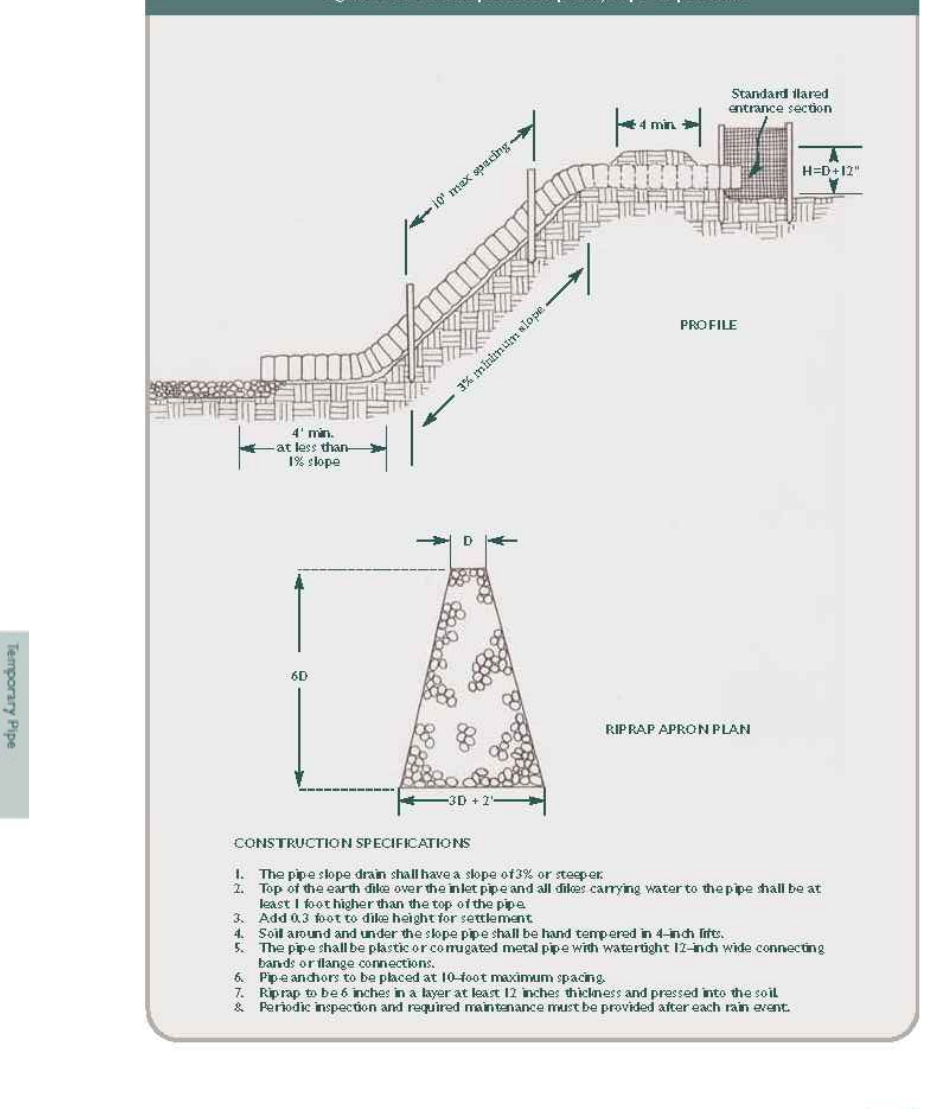
Figure TSD-1 Example of Temporary Pipe Slope Drain



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

3 EROSION CONTROL BLANKET Scale: NTS

Figure TSD-2 Example of Temporary Pipe Slope Drain



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

5 TEMPORARY PIPE DRAIN Scale: NTS

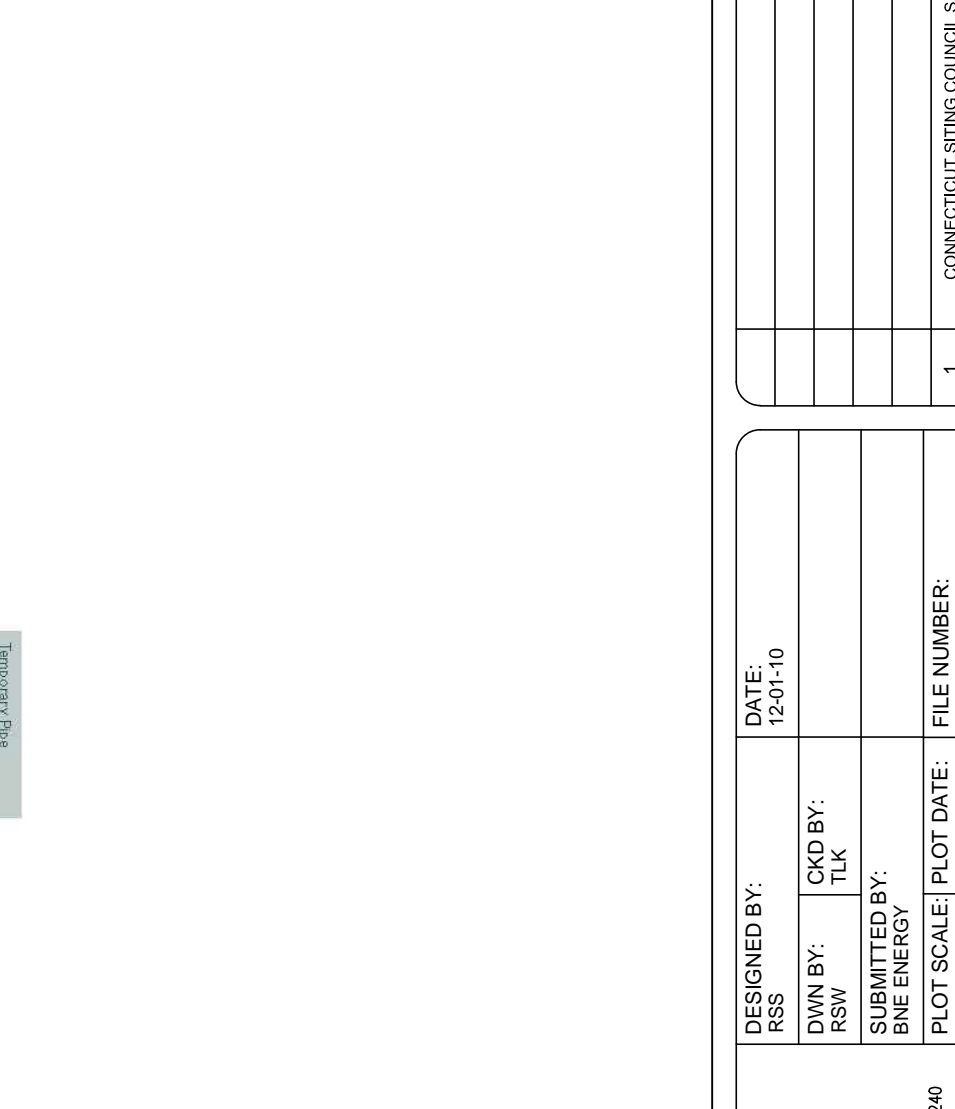
Figure SD-1 Subsurface Drains With and Without a Cover



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

5 TEMPORARY PIPE DRAIN Scale: NTS

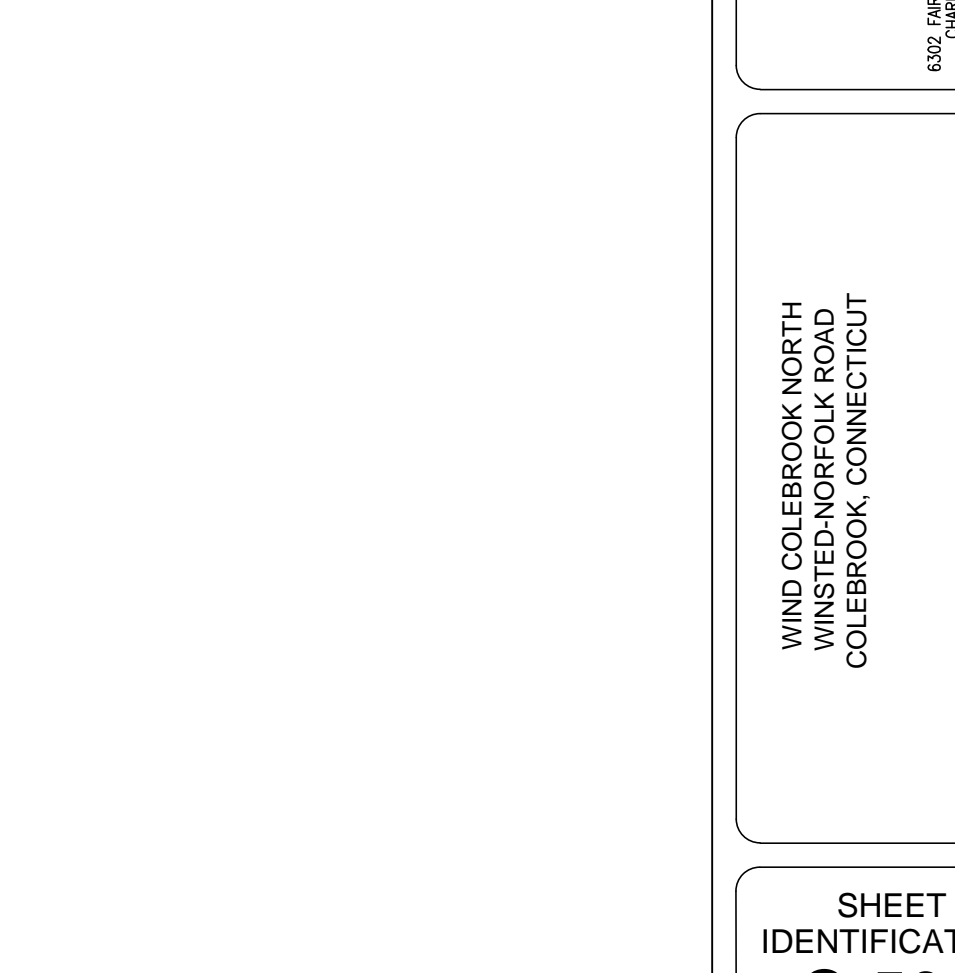
Figure SD-2 Effect of Subsurface Drainage on the Water Table



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

5 TEMPORARY PIPE DRAIN Scale: NTS

Figure SD-3 Subsurface Drain Layouts



2002 Connecticut Guidelines for Soil Erosion and Sediment Control 5-31-11

7 SUB-SURFACE DRAIN Scale: NTS

Project information and contact details for ZAPATA Environmental Services, Inc. including address, phone, and website. Also includes a table for tracking council submissions and a sheet identification number C-501.

10-Energy Dissipators

Outlet Protection (OPP)

Definition
Structurally-laid aprons or other acceptable energy dissipating devices placed between the outlets of pipes or paved channels sections and a stable downstream channel.

Purpose
To prevent scour at stream bank, culvert or drainage outlets and to minimize the potential for downstream erosion by reducing the velocity of concentrated storm water flows.

Applicability
At the outlet of all storm drain outlets, road culverts, paved channel outlets, open channels constructed as outlets for culverts and conduits, etc., discharging into natural or constructed channels, which may discharge into existing streams or drainage systems.

Planning Considerations

Analysis and appropriate treatment shall be done along the entire length of the flow path from the outlet of the conduit, channel or structure to the point of entry into an existing stream or publicly maintained drainage system. Where flow is excessive for the receiving water or an open, unconfined water body may be found, appropriate design for outlet banks may be found in the following sources:

- 1. **Figure OP-1: Allowable Velocities for Various Soils**
- 2. **Figure OP-2: Allowable Velocities for Various Soils**
- 3. **Figure OP-3: Allowable Velocities for Various Soils**

Soil Texture	Allowable Velocity (ft/min)
Sand and sandy loam	25
Silt loam	35
Sandy clay loam	30
Clay loam	40
Clay fine-grained, sand and gravel	50
Clay loam	55
Silt	60

Design Criteria

Determination of Needs
The need for outlet protection shall be determined by comparing the allowable velocity which the soil will withstand to the actual velocity of the flow from the outlet. The allowable velocity for water over the soil shall be that given in Figure OP-1. The soil velocity of the water in the conduit shall be calculated using the following equation:

1 OUTLET PROTECTION

Scale: NTS

11- Sediment Impoundments, Barriers and Filters

Temporary Sediment Trap (TST)

Definition
A temporary ponding area with a stone outlet formed by excavating and/or constructing a certain embankment.

Purpose
To allow sediment to settle from runoff from small disturbed areas long enough to allow a majority of the sediment to settle out.

Applicability
In disturbed areas where the contributing drainage area is 5 acres or less. For drainage areas greater than 5 acres use Temporary Sediment Basin instead.

Planning Considerations

Separate for construction of temporary sediment traps, show with other proposed erosion and sediment control that they are constructed and made functional before land disturbance in the contributing drainage area takes place.

The temporary sediment trap has two storage requirements: one for wet storage and one for dry storage. Generally, the wet storage is provided by excavation of the trap when the sediment accumulation exceeds half of the wet storage volume of the trap. The plan should also guarantee that access is provided for sediment removal and that the sediment will be disposed of as required by local or state regulations.

3 TEMPORARY SEDIMENT TRAP

Scale: NTS

11- Sediment Impoundments, Barriers and Filters

Hay Bale Barrier (HBB)

Definition
A temporary sediment barrier consisting of a row of established and stacked bales of hay or straw.

Purpose
To intercept and detain small amounts of sediment from small disturbed areas.

Applicability
In small disturbed areas where the drainage area (disturbed and undisturbed) is less than 1 acre in size.

Planning Considerations

Hay bales should be made of hay or straw with 40 pounds minimum weight and 120 pounds minimum length tied together by rope or wire.

Placement on the Landscape
Contributing drainage area is no greater than 1 acre. Maximum slope length is as shown in Figure HBB-1.

4 HAY BALE BARRIER

Scale: NTS

10-Energy Dissipators

Stone Check Dam (SCD)

Definition
A temporary stone dam placed across a drainage.

Purpose
To reduce the velocity of concentrated storm water flows, thereby reducing erosion of the drainage.

Applicability
In concentrated flows are expected to cause erosion.

Planning Considerations

A stone check dam is considered to be temporary if it is used less than 1 year. Its length of use and the size of the watershed drainage area it serves are shown in Figure SCD-1.

When planning the location of the stone check dam, consider the adverse effects of ponding, water size, the contributing watershed and if placed in a watershed, the effects on fish habitat and fish passage. Also consider if the first use of the stone will be to store water in a pond, retention or percolation.

Figure SCD-1: Design Requirements

Design Parameters	Drainage Area	Length of Use
1st frequency	1-2 acres	18 months
2nd frequency	>2 acres	14 months, 1 year
2nd frequency	any drainage size	>1 year

2 STONE CHECK DAM

Scale: NTS

11- Sediment Impoundments, Barriers and Filters

Geotextile Silt Fence (GSF)

Definition
A temporary sediment barrier consisting of a geotextile fabric pulled taut and attached to supporting posts and cross-beds.

Purpose
To intercept and detain sediment from disturbed areas.

Applicability
In areas where sediment from disturbed areas.

Planning Considerations

See Planning Considerations for Sediment Impoundments, Barriers and Filters Function Group.

Specifications
Geotextile fabric shall be a porous sheet of polypropylene or polyethylene or similar materials and shall be certified by the manufacturer or supplier as conforming to the requirements shown in Figure GSF-1.

Figure GSF-1: Top of Slope Installations with Wags



5 GEO-TEXTILE SILT FENCE

Scale: NTS

10-Energy Dissipators

Stone Check Dam (SCD)

Definition
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When planning the location of the stone check dam, consider the adverse effects of ponding, water size, the contributing watershed and if placed in a watershed, the effects on fish habitat and fish passage. Also consider if the first use of the stone will be to store water in a pond, retention or percolation.

Figure SCD-2: Stone Check Dam Installation in Drainage on Slope



2 STONE CHECK DAM

Scale: NTS

11- Sediment Impoundments, Barriers and Filters

Temporary Sediment Trap (TST)

Definition
A temporary ponding area with a stone outlet formed by excavating and/or constructing a certain embankment.

Purpose
To allow sediment to settle from runoff from small disturbed areas long enough to allow a majority of the sediment to settle out.

Applicability
In disturbed areas where the contributing drainage area is 5 acres or less. For drainage areas greater than 5 acres use Temporary Sediment Basin instead.

Planning Considerations

Separate for construction of temporary sediment traps, show with other proposed erosion and sediment control that they are constructed and made functional before land disturbance in the contributing drainage area takes place.

The temporary sediment trap has two storage requirements: one for wet storage and one for dry storage. Generally, the wet storage is provided by excavation of the trap when the sediment accumulation exceeds half of the wet storage volume of the trap. The plan should also guarantee that access is provided for sediment removal and that the sediment will be disposed of as required by local or state regulations.

Figure TST-1: Formula for Figuring Temporary Sediment Trap Storage Requirements



1 TEMPORARY SEDIMENT TRAP

Scale: NTS

11- Sediment Impoundments, Barriers and Filters

Temporary Sediment Trap (TST)

Definition
A temporary ponding area with a stone outlet formed by excavating and/or constructing a certain embankment.

Purpose
To allow sediment to settle from runoff from small disturbed areas long enough to allow a majority of the sediment to settle out.

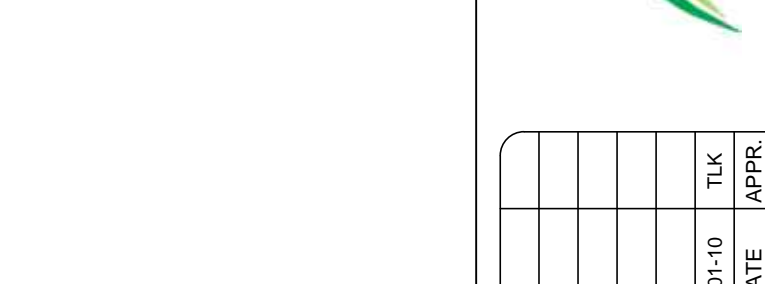
Applicability
In disturbed areas where the contributing drainage area is 5 acres or less. For drainage areas greater than 5 acres use Temporary Sediment Basin instead.

Planning Considerations

Separate for construction of temporary sediment traps, show with other proposed erosion and sediment control that they are constructed and made functional before land disturbance in the contributing drainage area takes place.

The temporary sediment trap has two storage requirements: one for wet storage and one for dry storage. Generally, the wet storage is provided by excavation of the trap when the sediment accumulation exceeds half of the wet storage volume of the trap. The plan should also guarantee that access is provided for sediment removal and that the sediment will be disposed of as required by local or state regulations.

Figure TST-4: Views of a Temporary Sediment Trap Outlet



1 TEMPORARY SEDIMENT TRAP

Scale: NTS

BNE Energy Inc.
Producer of green clean energy

MARK	DATE	DESCRIPTION	APPR.	TLC
1	12-01-10	CONNECTICUT SITING COUNCIL SUBMISSION		

DESIGNED BY:	DATE:	FILE NUMBER:
RSW	12-01-10	1355

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COLEBROOK, CONNECTICUT

SHEET IDENTIFICATION
C-502

6-Drainage Ways and Watercourses

Temporary Stream Crossing (TSC)

Definition
A temporary bridge, or culvert(s), across a watercourse for use by construction traffic.

Purpose
To provide a means for construction traffic to cross streams without causing turbidity.
To keep sediment generated by construction traffic out of the stream.

Applicability
For streams with drainage areas less than one square mile. For drainage areas exceeding one square mile use generally accepted engineering standards (e.g. NCEC Field Office Technical Guide, Section II, or the NCEC National Engineering Handbook, Part 04). Hydraulic Engineering, DOT Drainage Manual, which notes accuracy relative to actual hydrology and hydraulic parameters which will affect the functioning of the structure.

Planning Considerations

Temporary stream crossings are necessary to prevent construction vehicles from damaging stream banks and continually tracking sediment and other pollutants into the stream. However, these structures are also vulnerable as they represent a channel constriction which can cause flow buildup or turbulence during periods of high flow. For this reason, the temporary nature of stream crossings is stressed. They should be in place for the shortest practical period of time and be removed as soon as their function is completed.

The specifications contained in this document pertain primarily to flow capacity and resistance to washout of the structure. From a safety and utility standpoint, the design area also be sure that the crossing is capable of withstanding the expected loads from heavy construction equipment. Additionally, the design plans and standards shall comply with applicable federal, state and local laws and regulations.

A temporary bridge crossing is a structure made of wood, metal, or other materials which provides access across a stream to a roadway. A temporary culvert crossing is a structure consisting of one or more culverts of circular pipe, pipe arches, or oval pipes of stabilized concrete, corrugated metal, or structural plate, which is used to convey flowing water through the stream.

Bridges are preferred over culverts.

Minimum Design Flow
The structure shall remain in place 90 days to 3 years, the design area shall be designed to carry the maximum outflow in Appendix J, "Bank Assessment Adapted

Design Criteria

Temporary stream crossings may be either bridges or culverts and associated rock fill.
For temporary culvert crossings that will remain in place for 90 days or less, in lieu of a formal hydraulic design for structure shall have the ability to convey without erosion the flow from a 2 year frequency storm or to replace the cross-sectional area of the natural channel. The maximum culvert size is 36 inches.

Minimum Design Flow
The structure shall remain in place 90 days to 3 years, the design area shall be designed to carry the maximum outflow in Appendix J, "Bank Assessment Adapted

From CT DOT Drainage Manual: Using the form "Design Temporary Box Culvert" determine all factors in the layout being Table as described above. Temporary Design: Properly design is assessed by performing the area that can be damaged should the crossing capacity be exceeded. This includes an evaluation of potential flood damage exposure or adjacent to the channel and drainage downstream to properties and water resources that might receive sediment should the stream crossing fail. The property damage value shall be chosen as follows:

5 points occupied, parking lots, recreational areas, undeveloped land, forest land

10 points private or public structures, apartments such as sewage treatment systems and water supply areas (public and private well heads and reservoirs), utility structures, other above or below ground, storm management areas, streams, wooded by DDE, ponds located immediately downstream before the confluence with other watercourses, wetlands greater than 5 acres in size.

When the assigned risk falls between two design frequency determinations choose the higher of the two design frequencies. For example, a design risk of 20% for 10 smooth falls between the 3 year and 5 year. Therefore, choose the 5 year design frequency.

The structure shall be designed to pass the design storm without erosion. If the structure must remain in place over 3 years, it must be designed as a permanent structure in accordance with accepted engineering standards and practices. The conditions of the temporary stream crossing shall not impact structures in close proximity to the crossing by causing a rise in the water surface elevation for the stream downstream.

Creating Load Limitations
The materials used to construct the crossing must be able to withstand the anticipated loading of the construction traffic.

Wetland Widths
The crossing shall be designed for single lane traffic only, with a minimum width of 11 feet and a maximum of 23 feet. For culvert crossings the length of the culvert(s) shall include the width needed for single lane traffic plus side slopes.

Crossing Alignment
The temporary stream crossing shall be at right angles to the stream. Where approach conditions dictate, the centerline of the stream crossing may be skewed so that it is no greater than 15% from a line down perpendicular to the stream flow.

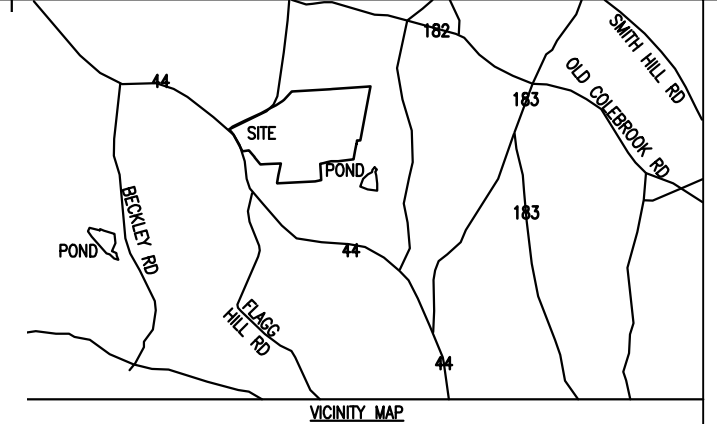
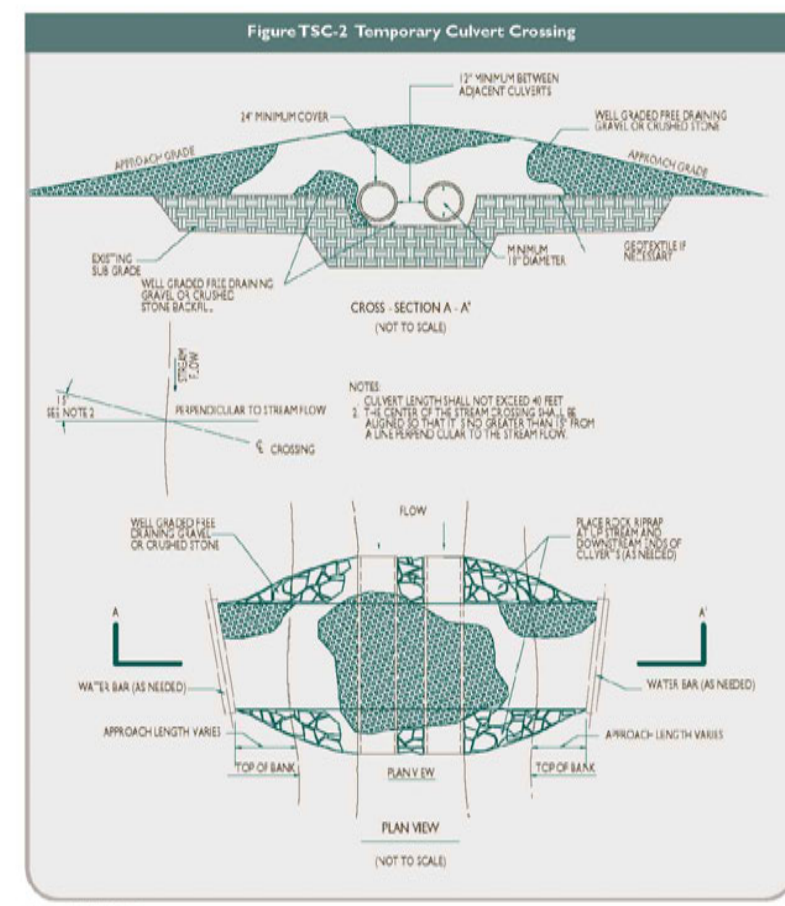
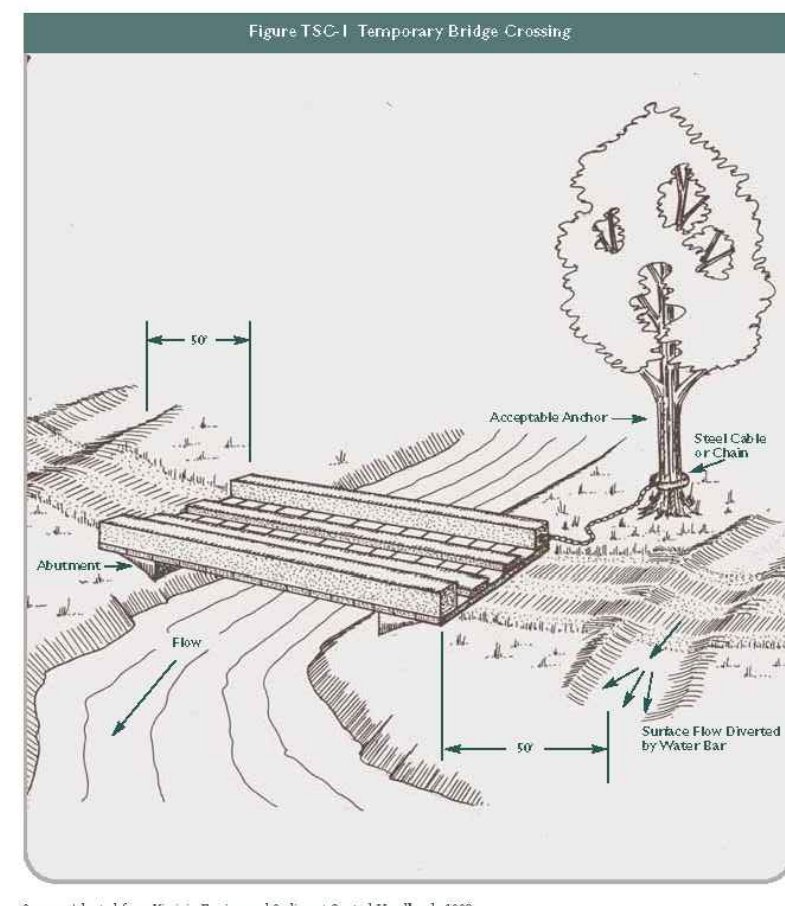
Crossing Approach
The centerline of both roadway approaches shall coincide with the centerline of the crossing with sufficient

Installation Requirements

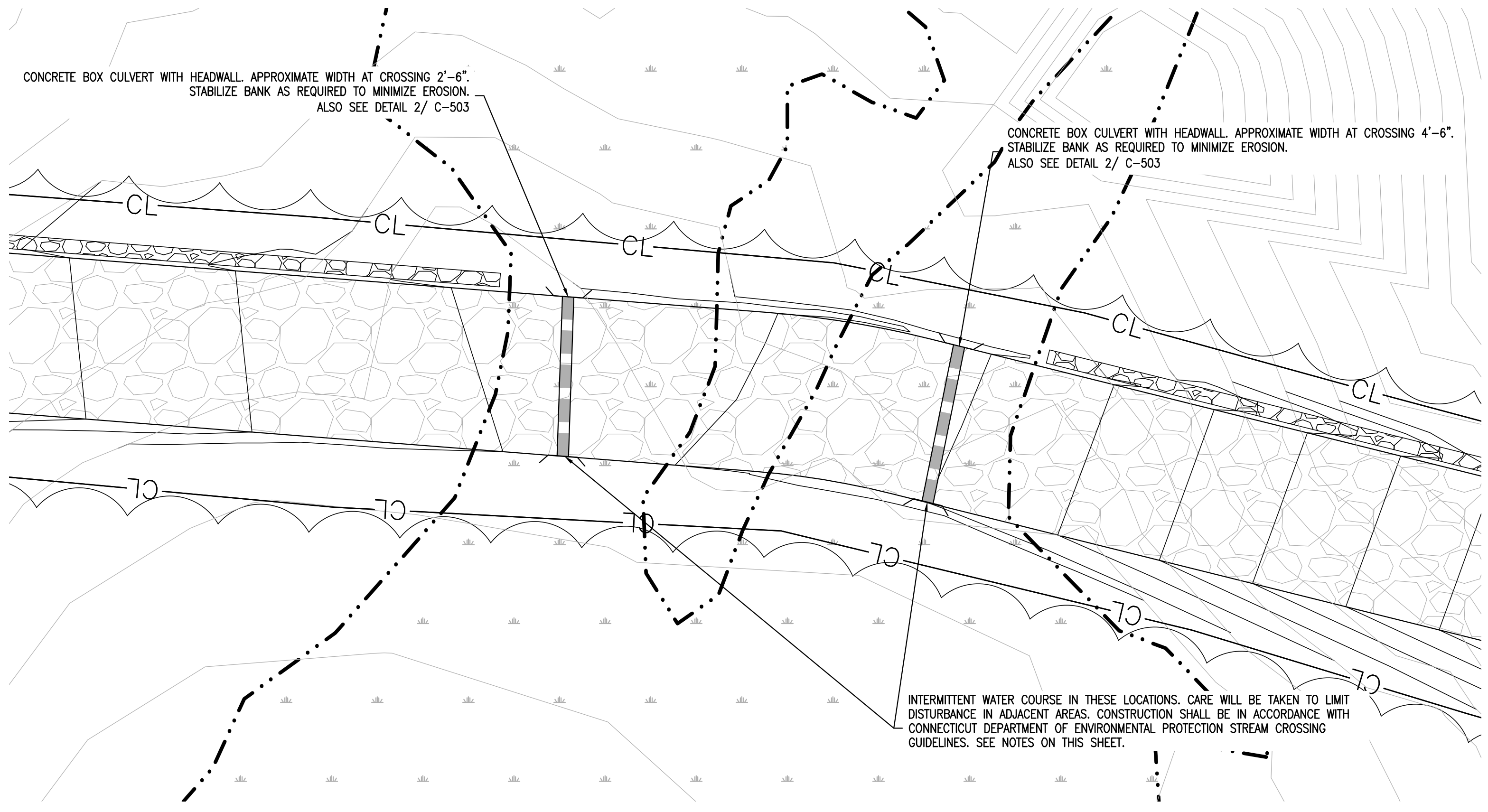
- Check weather forecasts to ensure a storm is not predicted during the time of construction. Heavy construction work after the time of rainfall has passed.
- Temporary Bridge Crossing (see Figure TSC-1):**
- Keep clearing and excavation of the stream bed and banks to a minimum.
 - Place abutments parallel to and tied into stable banks.
 - Place all decking members perpendicular to the stream, braced tightly and securely fastened to the stream bed. Decking materials should be placed on any soil material exposed on the bridge from falling into the streamway below.
 - If required, secure rim planking by fastening to the length of the span. Provide one rim plank for each track of the replacement wheels. Run planks are sometimes needed to properly distribute loads.
 - If required, install small curbs or finches along the outer sides of the deck (curbs or finches provide additional safety).
 - Anchor bridge abutments at only one end with post-and-rail chain, anchored in the stream bed. Flood water may flow over the bridge. Acceptable anchors are large rocks, large boulders, or driven steel anchors. Anchors should be sufficient to prevent the bridge from floating downstream and possibly causing an obstruction in the flow.
 - Install stone for bridge approaches, concrete, water bars at the beginning of each approach and associated curbs (see Note the location).
 - For bridges that are to remain in place more than 30 days, apply measures that protect disturbed soils from erosion. The choice of stream bank in place dependent upon the length of time the crossing will be in place.
 - For manufactured bridges follow manufacturer's recommendations.

Temporary Culvert Crossing (see Figure TSC-2)

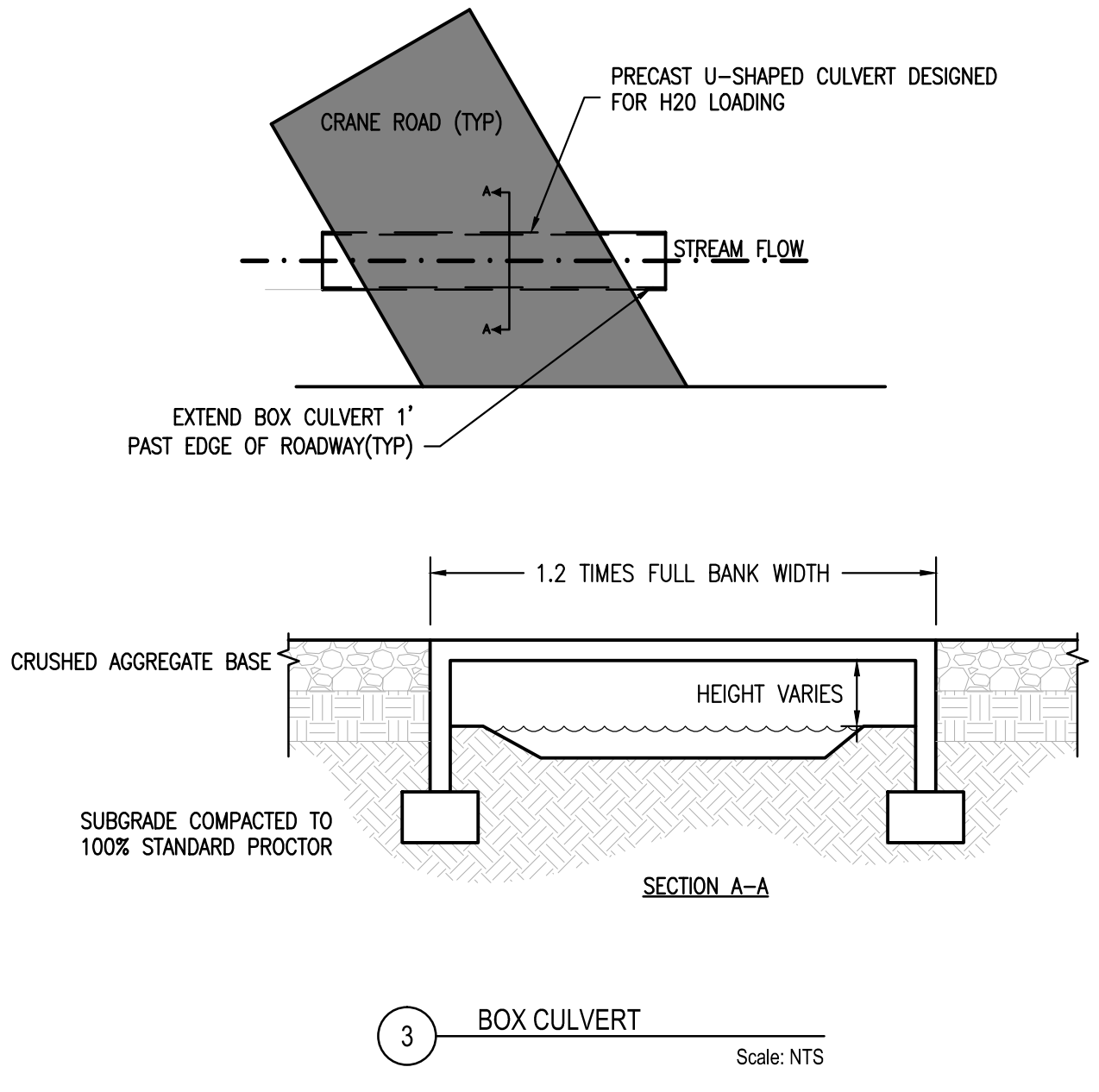
- Keep clearing and excavation of the stream bed and banks to a minimum.
 - When a structure is to be used, place it on the stream bed and stream banks prior to placement of the pipe culverts and fill. Cover the structure in the stream bed and several a minimum of six feet and a maximum of one foot beyond the end of the culvert and bedding material.
 - Install the culvert on the natural stream bed.
 - Extend the culvert(s) a minimum of one foot beyond the upstream and downstream toe of the bankfill placed around the culvert.
 - Cover the culvert(s) with a minimum of 24 inches of bankfill. If multiple culverts are used, separate them by at least 12 inches of compacted fill.
- Maintenance**
Inspect and perform any repair work at the end of each day that the temporary stream crossing and approaches are exposed to vehicular traffic. When the crossing is not used for a week or more, inspect at least once a week and within 24 hours after any rainfall greater than 0.5 inch. Check for washouts, or erosion, crossing approaches and failing associated controls. Immediately repair all damage. When structural damage or repeated washouts of the temporary stream crossing occur, an engineering review is required to determine the cause of the failure and adjustments made to the structure or associated sediment controls as needed to prevent future failures.
- When the temporary stream crossing is no longer needed, immediately remove all structure, associated fill materials and generate keeping in stream work to a minimum. Upon removal of the structure, immediately shape the stream to its original condition, protect the banks from erosion, and remove all construction materials and apply soil protection measures to unstable soils.



1 WETLAND CROSSING DETAILS
Scale: NTS



2 WETLAND CROSSING PLAN
Scale: 1:20



- NOTES:**
- STREAM CROSSING SHALL BE IN ACCORDANCE WITH CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION STREAM CROSSING GUIDELINES, FEBRUARY 2008.
 - GRADIENT SHALL BE NO STEEPER THAN THE STREAMED GRADIENT UPSTREAM AND DOWNSTREAM. GRADIENT SHALL NOT EXCEED 3%.
 - CULVERT ALIGNMENT SHOULD BE SIMILAR TO THAT OF THE STREAM AND NOT PLACED AT A SKEW.
 - CULVERT LENGTH SHOULD BE AS SHORT AS POSSIBLE. HEADWALLS ARE RECOMMENDED.
 - CULVERT WIDTH SHALL BE 1.2 TIMES THE BANKFULL WIDTH OF THE STREAM. BANKFULL WIDTH IS EQUAL TO 1.5 TO 2 YEAR STORM FREQUENCY.
 - CORRUGATED CULVERTS SHALL BE UTILIZED.
 - CULVERT OPENING RATIO SHALL BE GREATER THAN .25:1.
 - NATIVE STREAM BED MATERIAL SHALL BE STOCKPILED AND REPLACED WITHIN CULVERT.
 - CONTRACTOR SHALL MINIMIZE DISTURBANCE WITHIN STREAMED ZONE.

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1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLK

DESIGNED BY:	DATE:
RSW	12-01-10

CHKD BY:	FILE NUMBER:
TLK	1385

DESIGNED BY:	DATE:
RSW	12-01-10

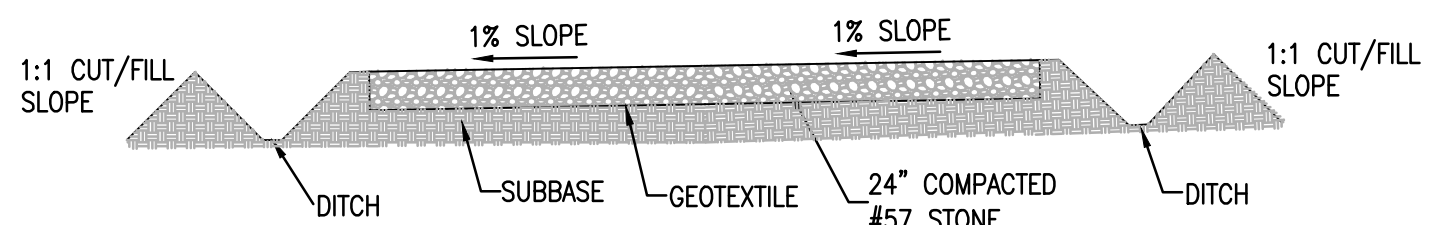
CHKD BY:	FILE NUMBER:
TLK	1385

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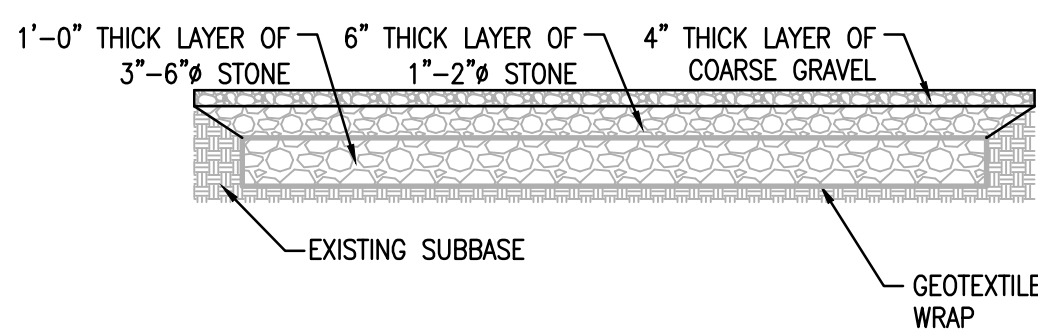
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WINDY HILL ROAD
COLEBROOK, CONNECTICUT

EROSION CONTROL DETAILS

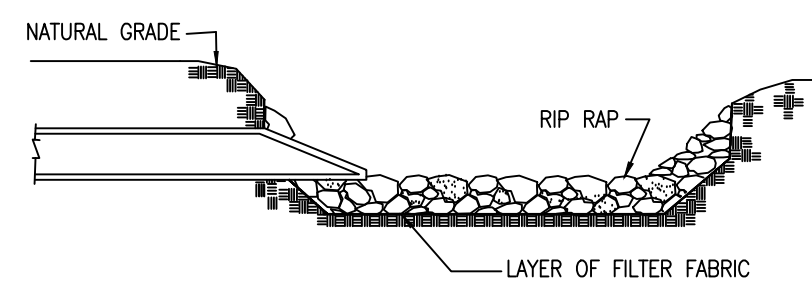
SHEET IDENTIFICATION
C-503



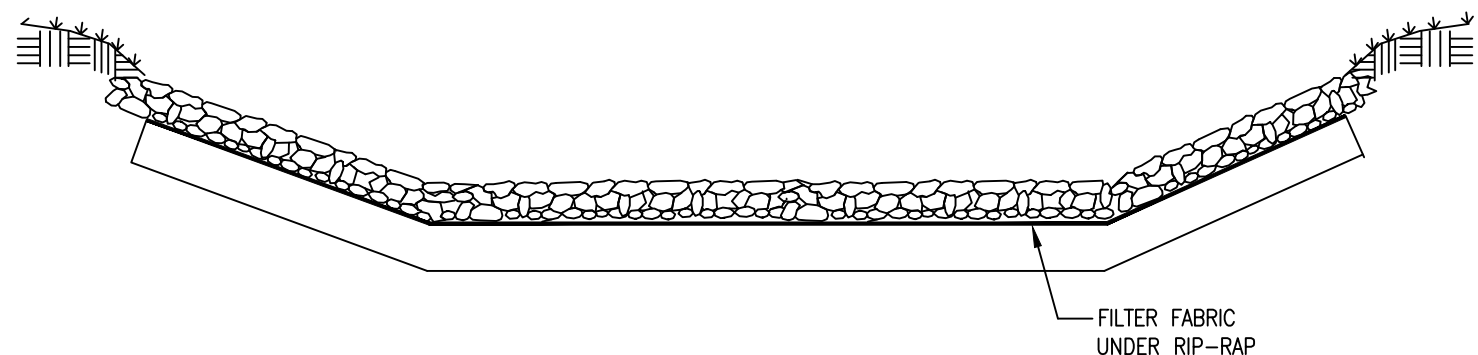
① CRANE ROAD CROSS SECTION
Scale: 1:10



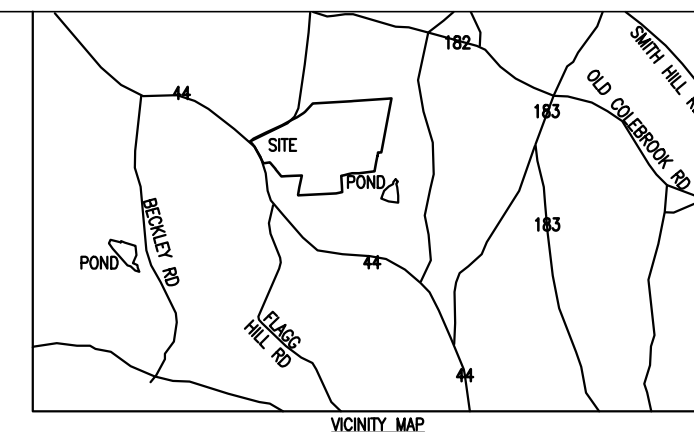
② WETLAND CROSSING
FRENCH MATTRESS
Scale: NTS



③ TYPICAL CULVERT PIPE INLET/ OUTLET
Scale: NTS



④ TYPICAL GRAVEL LINED DITCH
Scale: NTS



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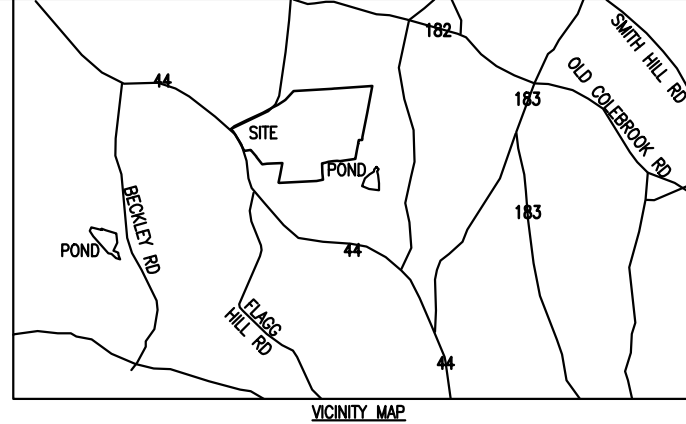
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1	CONNECTICUT SITING COUNCIL SUBMISSION	12-01-10	TLC	APPR.

DESIGNED BY:	DATE:
DRAWN BY:	12-01-10
RSW	
CHK. BY:	
TLC	
SUBMITTED BY:	FILE NUMBER:
BNE ENERGY	1385
PLOT SCALE:	FILE NAME:
AS SHOWN	
SIZE:	
ANSI D	



WIND COLEBROOK NORTH
WIND-NORFOLK ROAD
COLEBROOK, CONNECTICUT
GENERAL DETAILS

SHEET IDENTIFICATION
C-504



AME
 CONSULTING ENGINEERS
 421 PENMAN STREET, SUITE 200
 CHARLOTTE, NC 28203
 704-295-4263
 AME PROJECT NO.: 09044

BNE Energy Inc.
 Producer of green clean energy



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12/01/10	
DESIGNED BY:	DATE:
12/01/10	
DESIGNED BY:	DATE:
12/01/10	
DESIGNED BY:	DATE:
12/01/10	

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WIND COLEBROOK NORTH
 WINSTED-NORFOLK ROAD CONNECTICUT
 ELECTRICAL - SITE PLAN

SHEET IDENTIFICATION
E-101

POWER LINETYPE LEGEND
 — UE — UE LINETYPE = UNDERGROUND ELECTRICAL AS DESIGNED BY AME.
 — OE — OE LINETYPE = OVERHEAD ELECTRICAL AS DESIGNED BY EPE.

