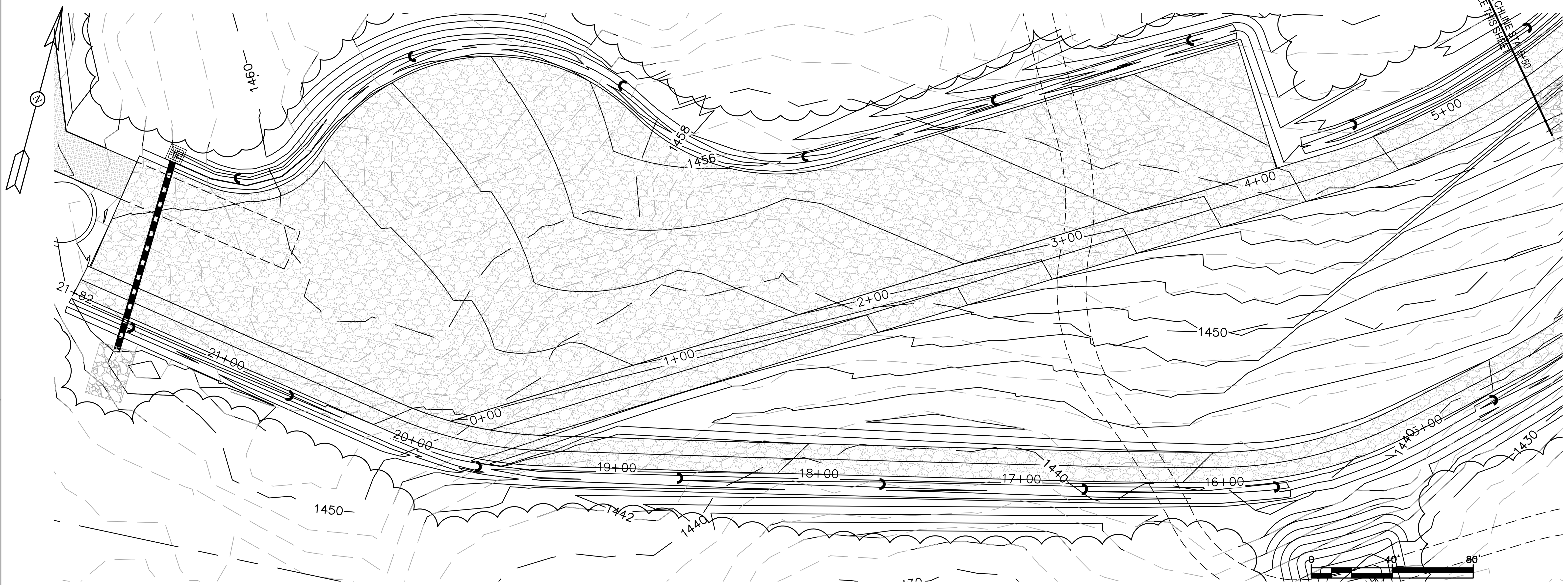

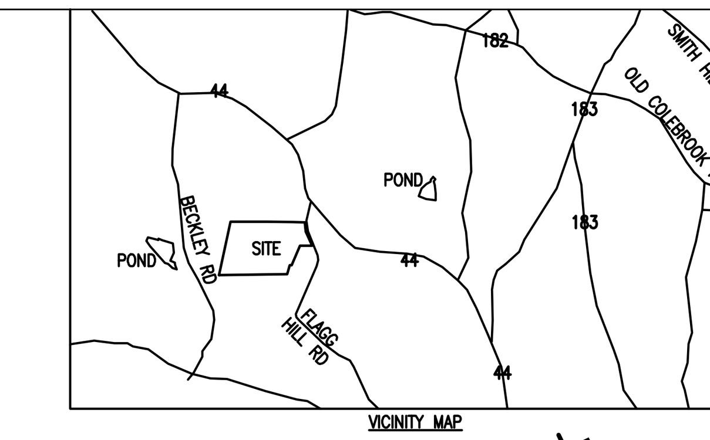

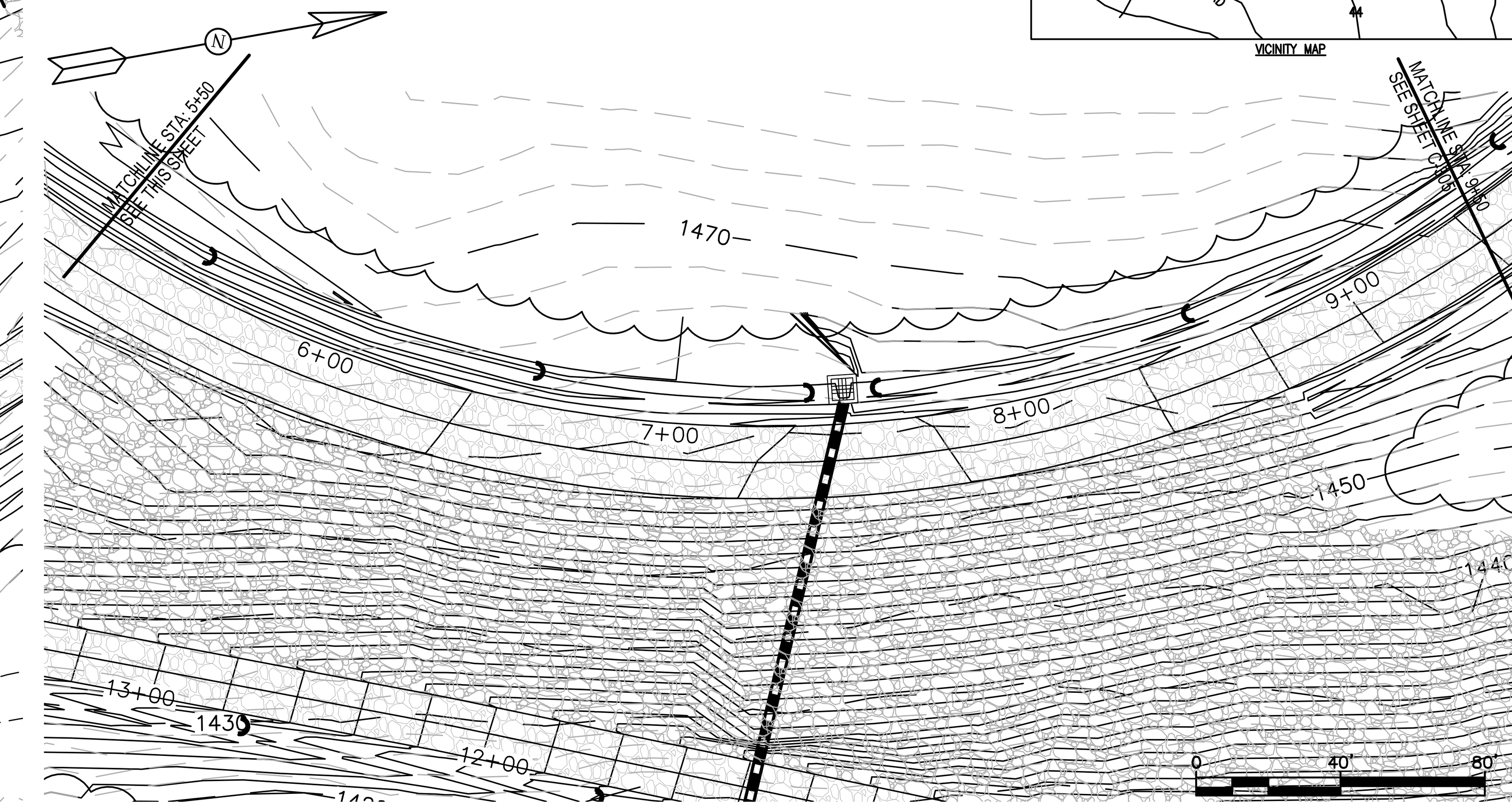

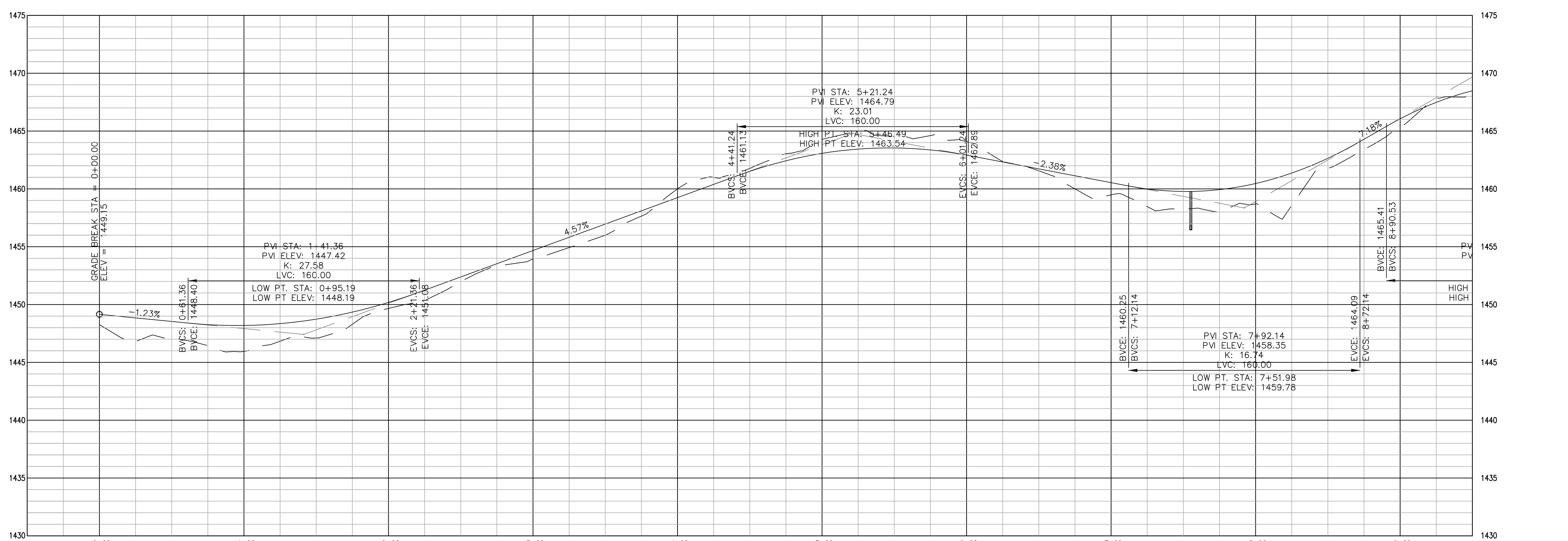

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 40' 80'

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

DESIGNED BY: RSS		DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME: W:\Projects\BNE Energy Inc\Data\CAD\1355-010 Colebrook South\C300_GRAD.dwg	

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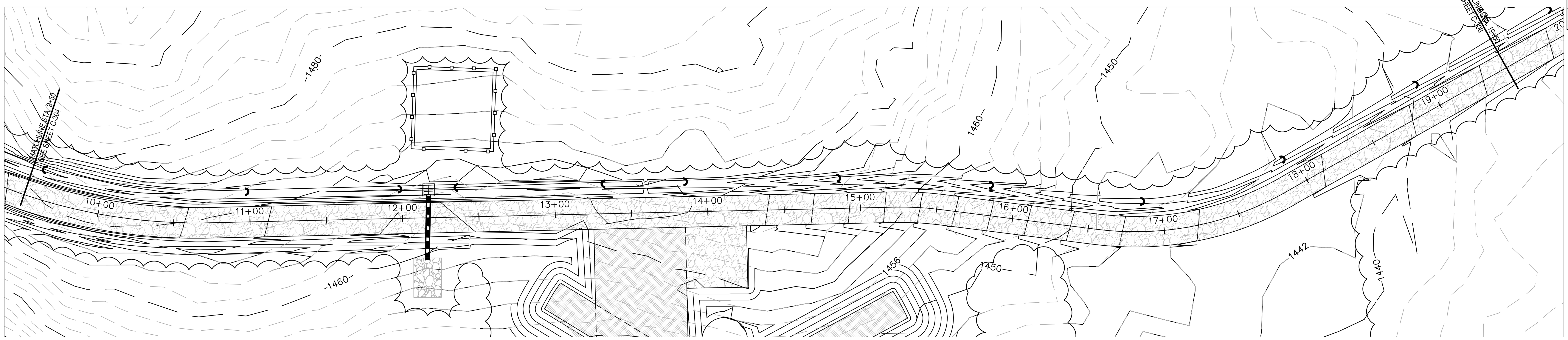
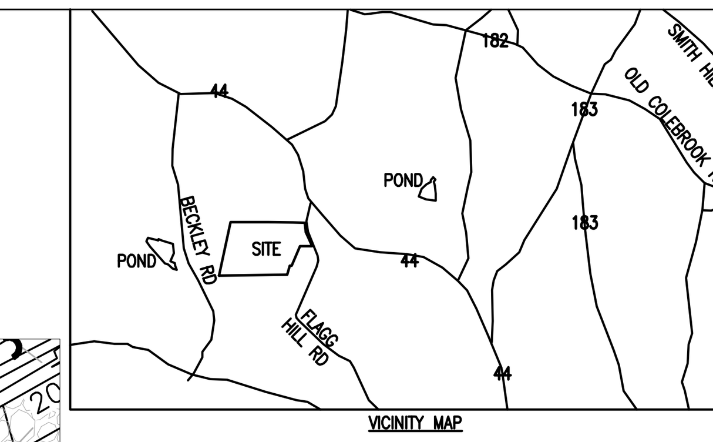
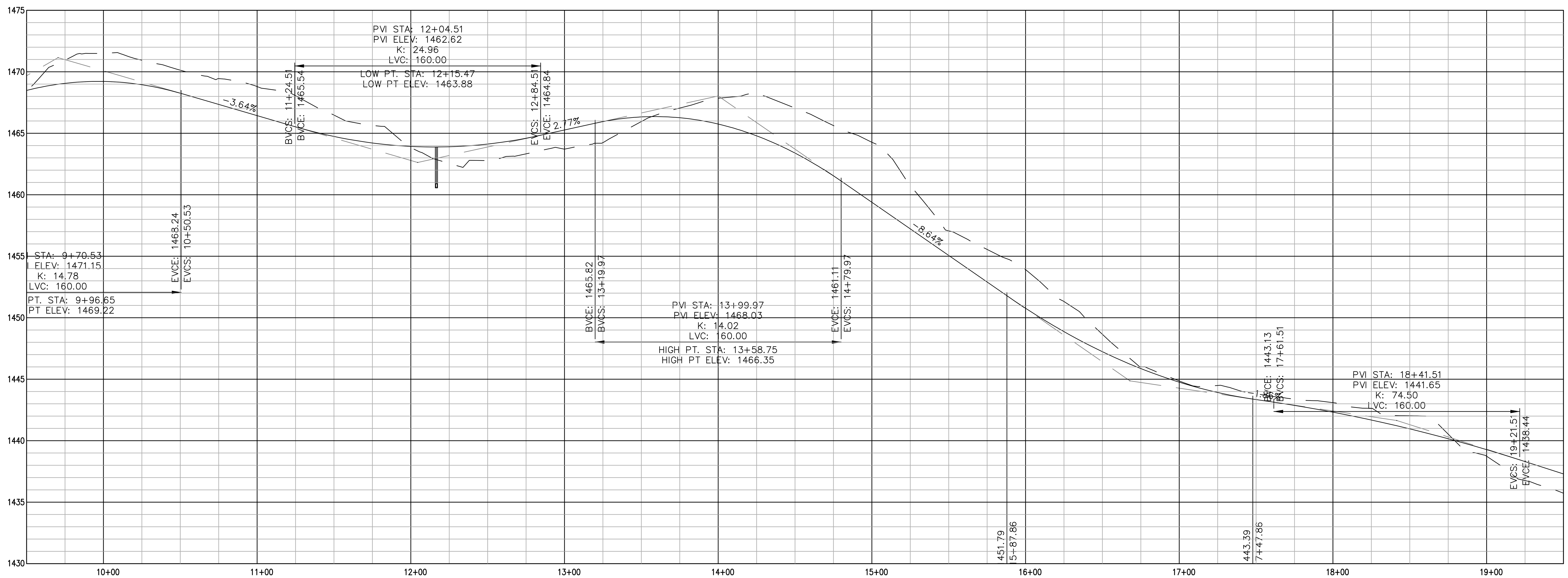
WIND COLEBROOK SOUTH
CONNECTICUT

NEW CRANE ROAD PLAN AND PROFILE
STA: 0+00 TO 9+50

SHEET IDENTIFICATION
C-304







BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

DESIGNED BY: RSS	DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK
SUBMITTED BY: BNE ENERGY	
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11
FILE NUMBER: 1355	
SIZE: ANSI D	FILE NAME: W:\Projects\BNE Energy Inc\Data\CAD\1355-010 Colebrook South\C300_GRAD.dwg

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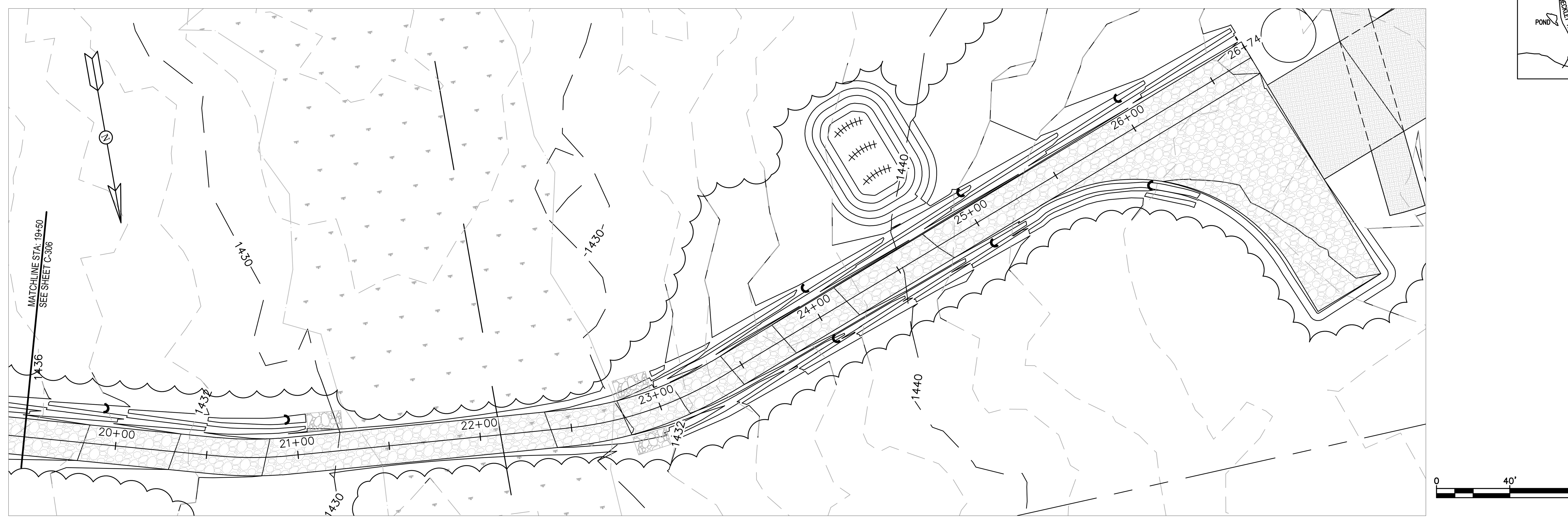
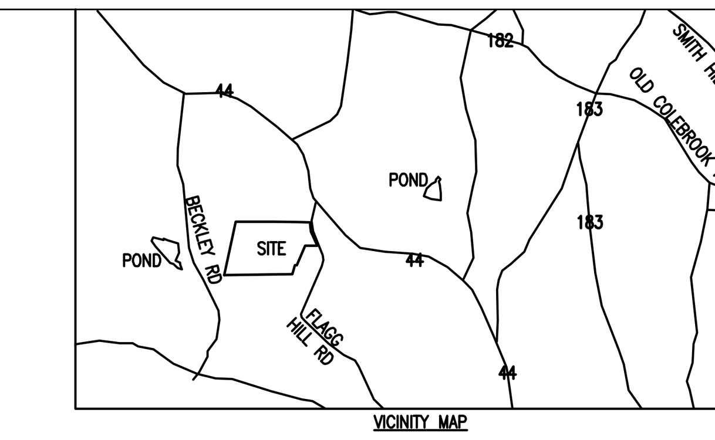
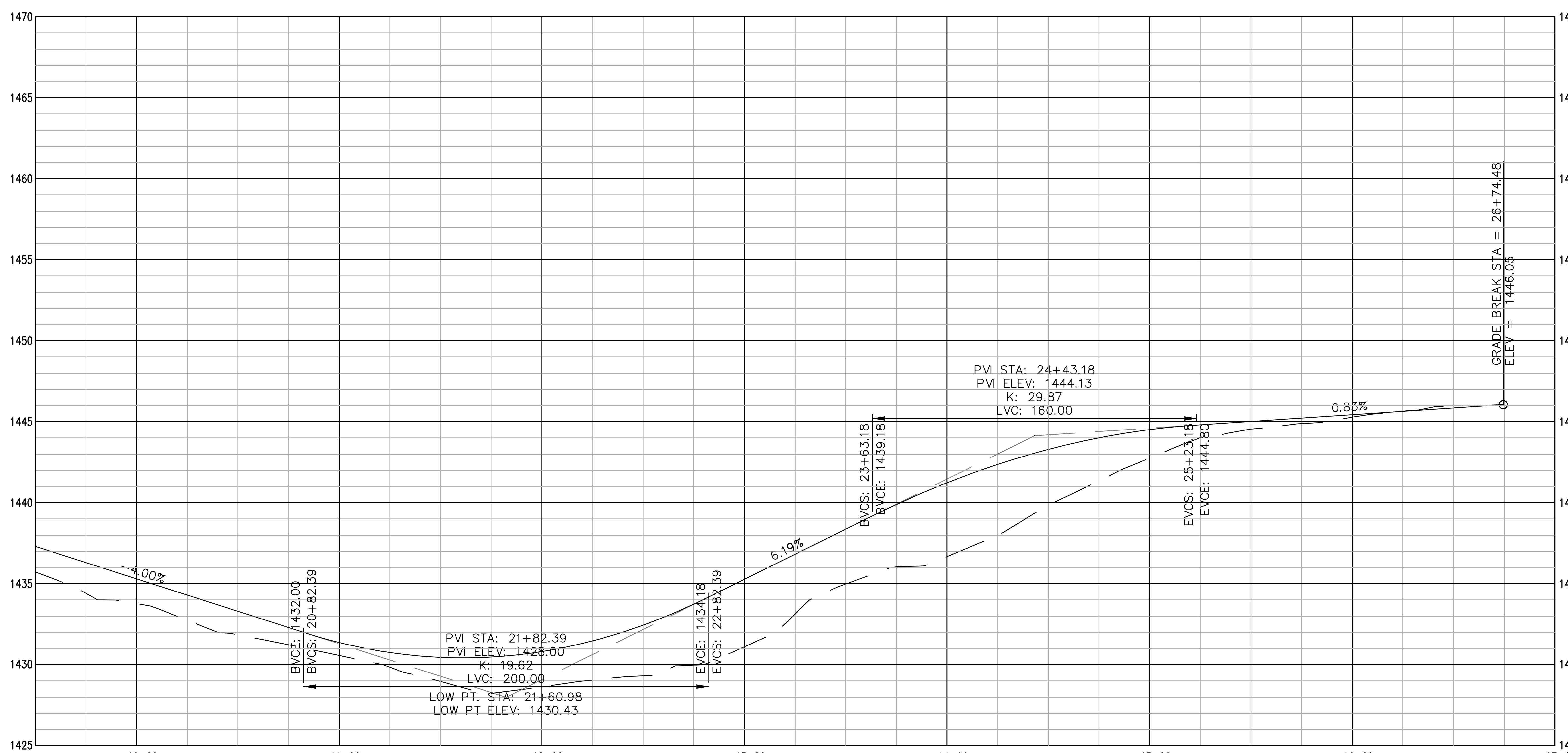
WIND COLEBROOK SOUTH
CONNECTICUT

NEW CRANE ROAD PLAN AND PROFILE
STA: 9+50 TO 19+50

SHEET IDENTIFICATION
C-305







VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 40' 80'

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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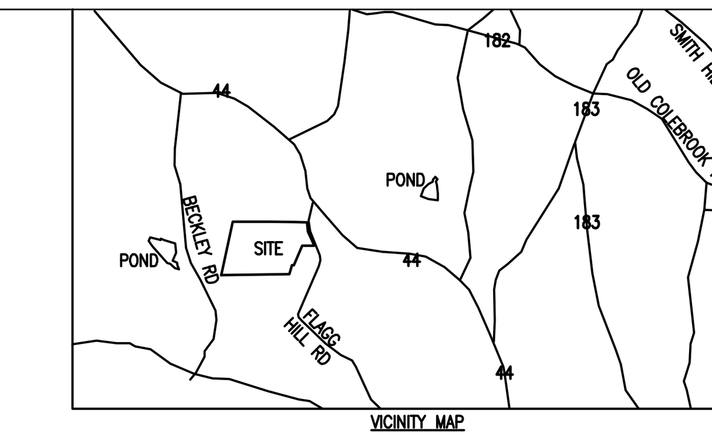
ZAPATA@ZAPATAINC.COM WWW.ZAPATAINC.COM

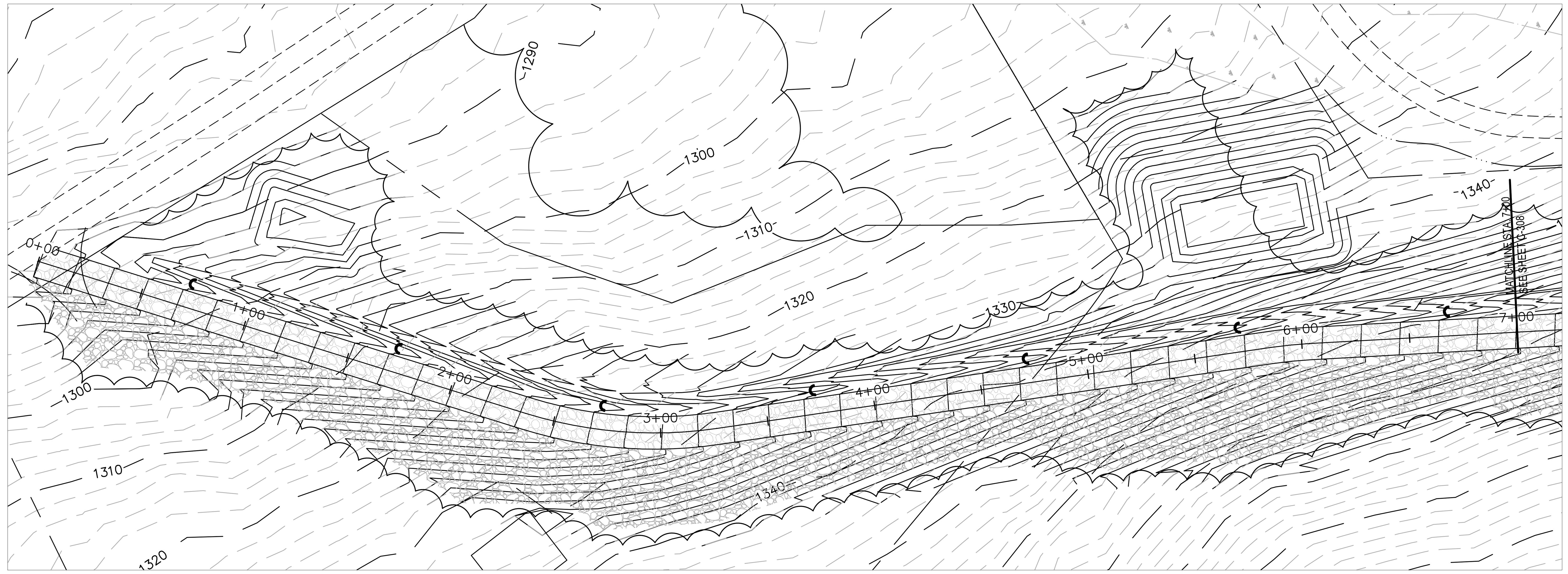
DESIGNED BY: RSS	DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK
SUBMITTED BY: BNE ENERGY	
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11
FILE NUMBER: 1355	
SIZE: ANSI D	FILE NAME:

WIND COLEBROOK SOUTH
CONNECTICUT

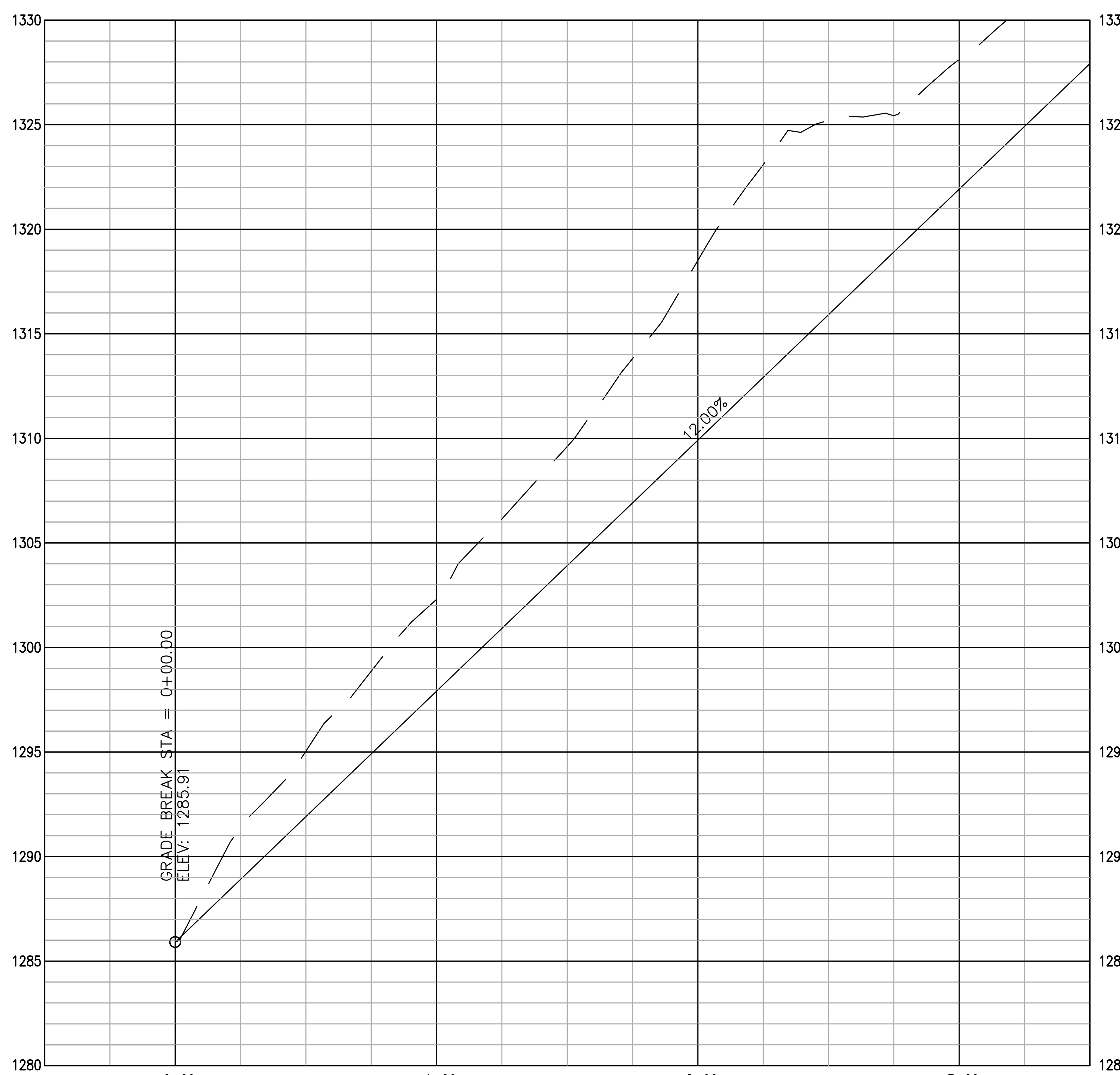
NEW CRANE ROAD PLAN AND PROFILE
STA. 19+50 TO 26+74

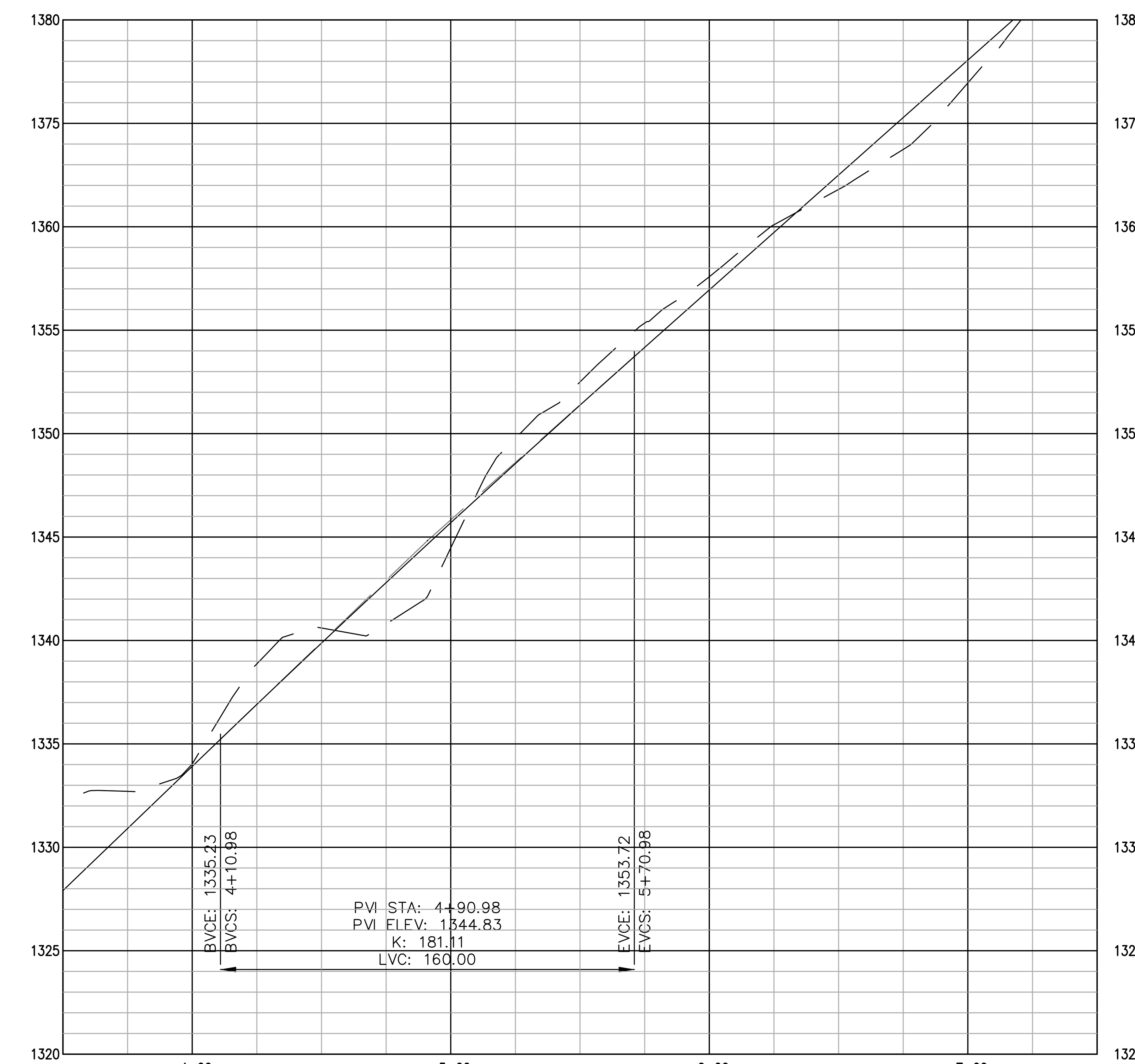
SHEET IDENTIFICATION
C-306





0 40' 80'





VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 40' 80'

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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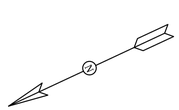
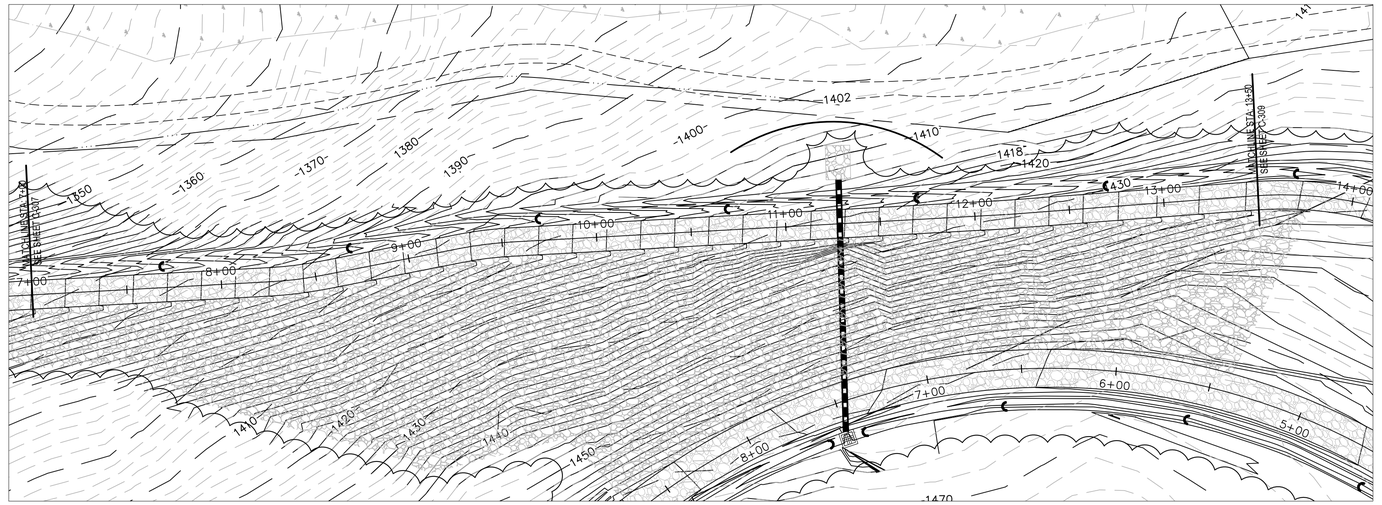
DESIGNED BY: RSS		DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME: W:\Projects\BNE Energy Inc\Data\CAD\1355-010 Colebrook South\C300_GRAD.dwg	

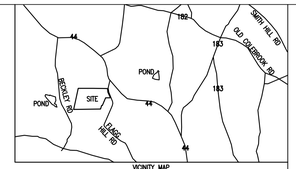
WIND COLEBROOK SOUTH
CONNECTICUT

ACCESS ROAD PLAN AND PROFILE
STA: 0+00 TO 7+00

SHEET IDENTIFICATION
C-307







VICINITY MAP

0 40' 80'

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 40' 80'

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

DESIGNED BY: RSS
DRWN BY: RSW
CKD BY: TLK
SUBMITTED BY: BNE ENERGY
DATE: 03-14-11
PLOT DATE: 03-14-11
PLOT SCALE: AS SHOWN
SIZE: ANSI D
FILE NUMBER: 8305
FILE NAME: [illegible]

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6305 FAIRVIEW ROAD #800 PHONE: (704) 366-8240
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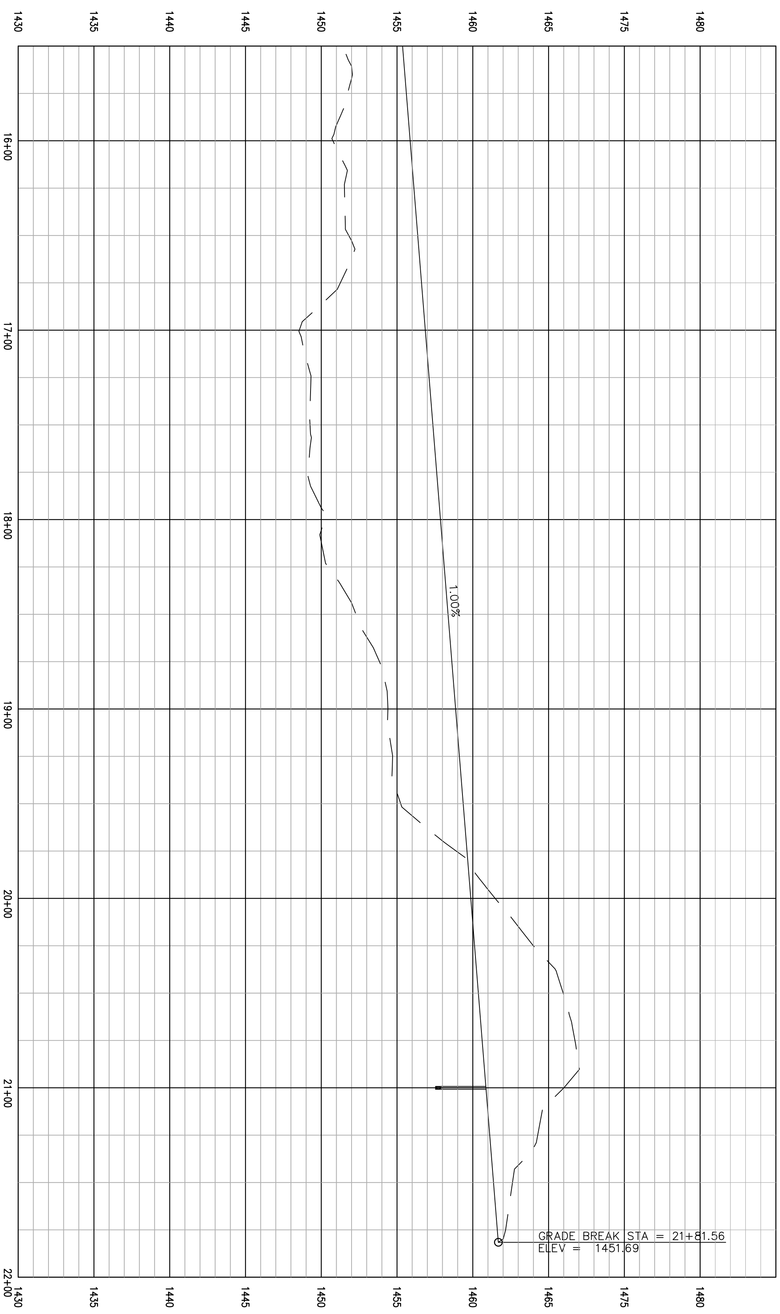
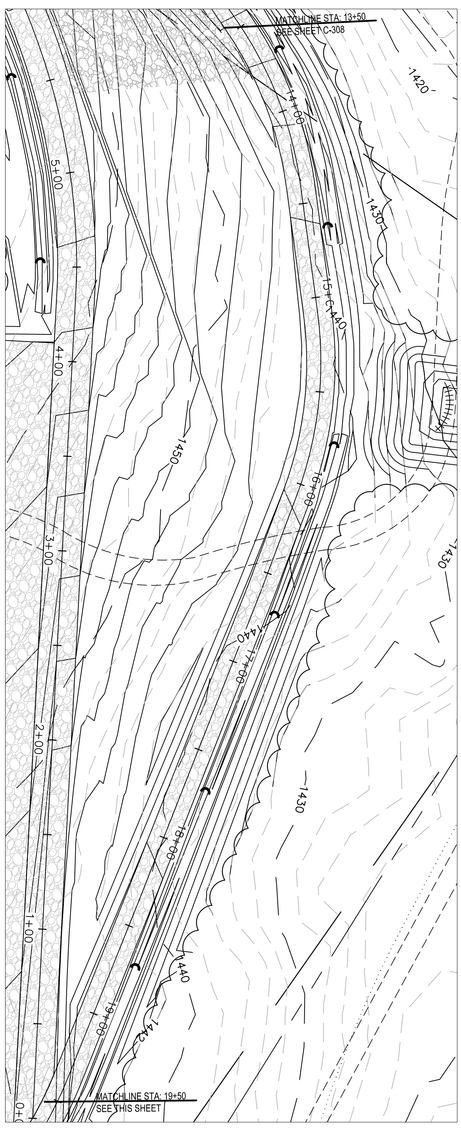
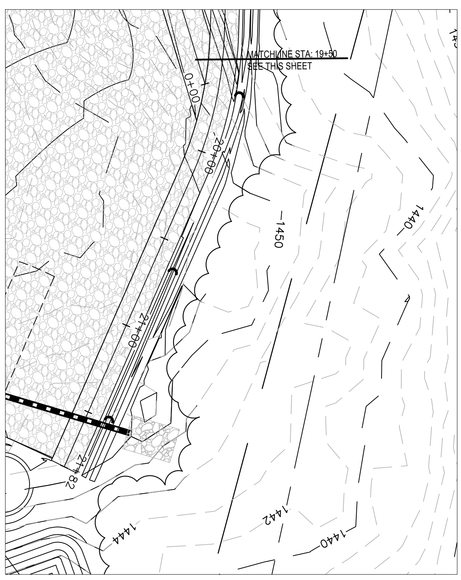
WIND COLEBROOK SOUTH
CONNECTICUT

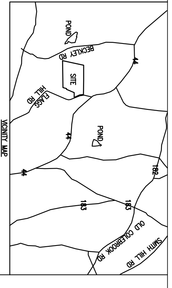
ACCESS ROAD PLAN AND PROFILE
STA: 7+00 TO 15+50

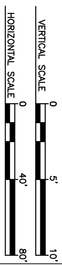
SHEET IDENTIFICATION
C-308











SHEET IDENTIFICATION
C-309

WIND COLEBROOK SOUTH
CONNECTICUT

ACCESS ROAD PLAN AND PROFILE
STA: 15+50 TO 21+81

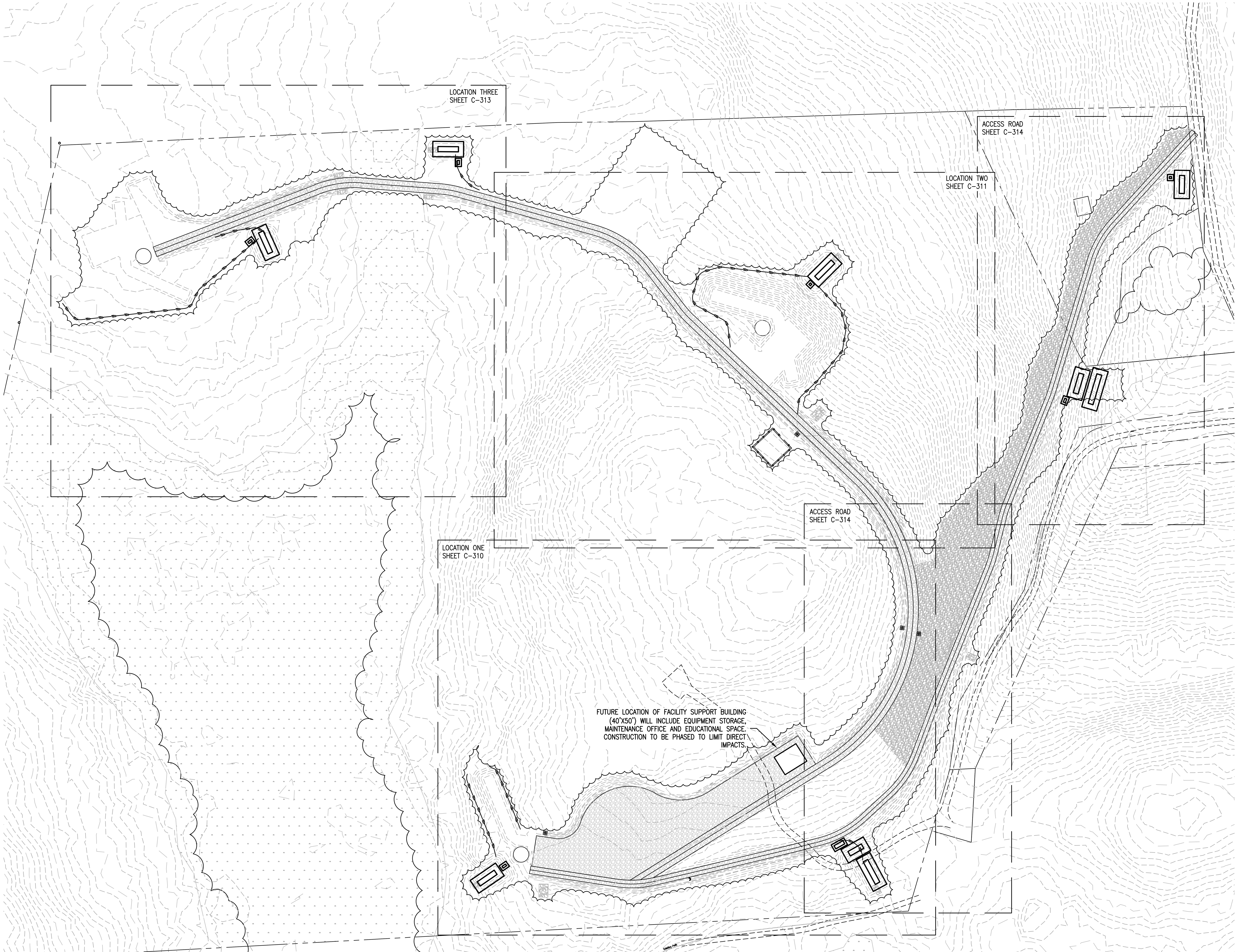
ZAPATA ENGINEERING
6303 FAIRVIEW ROAD #600 PHONE: (704) 358-8240
CHARLOTTE, NC 28210 FAX: (704) 358-8342
ZAPATA@ZAPATAINC.COM WWW.ZAPATAINC.COM

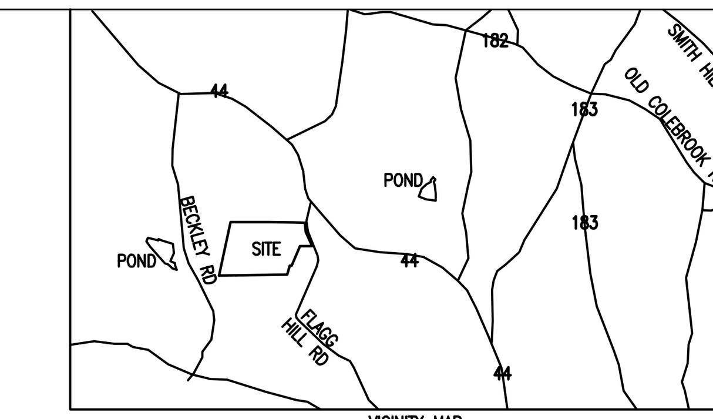
DESIGNED BY: RSS		DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME: W:\Projects\BNE Energy Inc\Civil\CAD\1355-010 Colebrook South\1355_ENG.dwg	

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

BNE Energy Inc.
Producer of green clean energy





VICINITY MAP

LEGEND

- CULVERT PIPE
- DITCH LINE
- EXISTING TOPO
- NEW TOPO
- WETLAND LIMITS
- VEGETATION
- COMPACTED EARTH
- WETLAND
- GRAVEL
- LAYDOWN AREA
- CULVERT PIPE/SLOPE DRAIN

GRADING NOTES:

1. DISCREPANCIES SHOULD BE NOTED AND GUIDANCE OBTAINED FROM THE ENGINEER PRIOR TO CONTINUING WORK.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL EXISTING UNDERGROUND UTILITIES.
3. GENERAL CONTRACTOR TO MONITOR STORM WATER RUNOFF DURING AND AFTER CONSTRUCTION TO ENSURE PROPER DRAINAGE AWAY FROM PROPOSED BUILDING AND DRIVE.
4. 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.
5. ALL HARD SURFACES SHALL HAVE A SLOPE AS INDICATED ON DRAWINGS.
6. GENERAL CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM TOWER PADS.
7. MASS GRADING WILL NOT BE CONDUCTED ON THIS SITE.
8. ALL EROSION CONTROL STRUCTURES TO BE INSTALLED PRIOR TO CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
10. ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
11. SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.

0 100' 200'

N

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

DESIGNED BY: RSS		DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME: W:\Projects\BNE Energy Inc\Data\CAD\1355-010 Colebrook South\C310_POSTGRAD.dwg	

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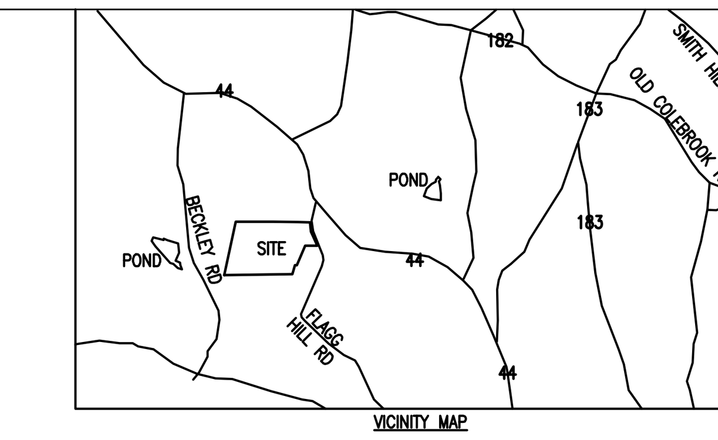
WIND COLEBROOK SOUTH
CONNECTICUT

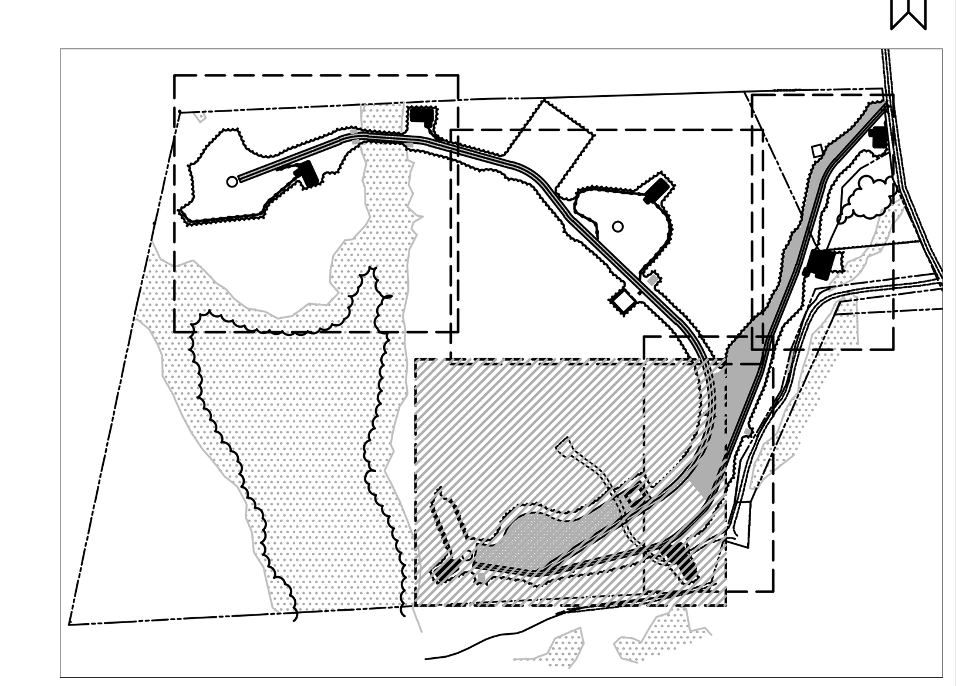
OVERALL POST CONSTRUCTION GRADING PLAN

SHEET IDENTIFICATION
C-310



LEGEND

- CULVERT PIPE
- DITCH LINE
- EXISTING TOPO
- NEW TOPO
- WETLAND LIMITS
- VEGETATION
- COMPACTED EARTH
- WETLAND
- GRAVEL
- LAYDOWN AREA
- CULVERT PIPE/SLOPE DRAIN



KEYPLAN

0 40 80

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

DESIGNED BY: RSS		DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME:	

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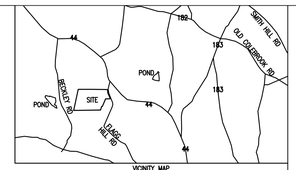
WIND COLEBROOK SOUTH
CONNECTICUT

TURBINE LOCATION ONE AND
CRANE ASSEMBLY AREA
POST CONSTRUCTION GRADING PLAN

SHEET IDENTIFICATION
C-311



VICINITY MAP

LEGEND

- CULVERT PIPE
- DITCH LINE
- EXISTING TOPO
- NEW TOPO
- WETLAND LIMITS
- VEGETATION
- COMPACTED EARTH
- WETLAND
- GRAVEL
- LAYDOWN AREA
- CULVERT PIPE/SLOPE DRAIN

GRADING NOTES:

1. DISCREPANCIES SHOULD BE NOTED AND GUIDANCE OBTAINED FROM THE ENGINEER PRIOR TO CONTINUING WORK.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL EXISTING UNDERGROUND UTILITIES.
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9. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
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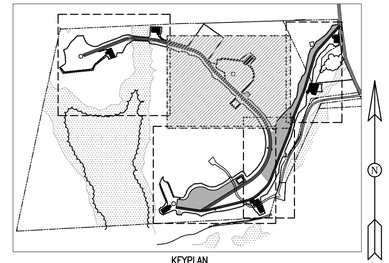
11. SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.



KEYPLAN

0 40 80

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

DESIGNED BY: RSS	DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK
SUBMITTED BY: BNE ENERGY	
PLOT SCALE: 1:1 AS SHOWN	PLOT DATE: 03-14-11
SIZE: ANSI D	FILE NAME:
FILE NUMBER: 1303	

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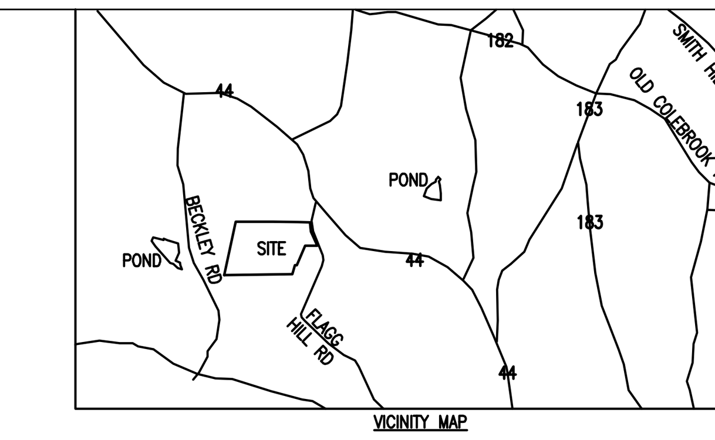
6301 FAIRVIEW ROAD, #200 CHARLOTTE, NC 28210
PHONE (704) 366-8040
FAX (704) 366-8042
ZAPATAENGINEERING.COM WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
CONNECTICUT

TURBINE LOCATION TWO
POST CONSTRUCTION GRADING PLAN

SHEET IDENTIFICATION
C-312



LEGEND

- CULVERT PIPE
- DITCH LINE
- EXISTING TOPO
- NEW TOPO
- WETLAND LIMITS
- VEGETATION
- COMPACTED EARTH
- WETLAND
- GRAVEL
- LAYDOWN AREA
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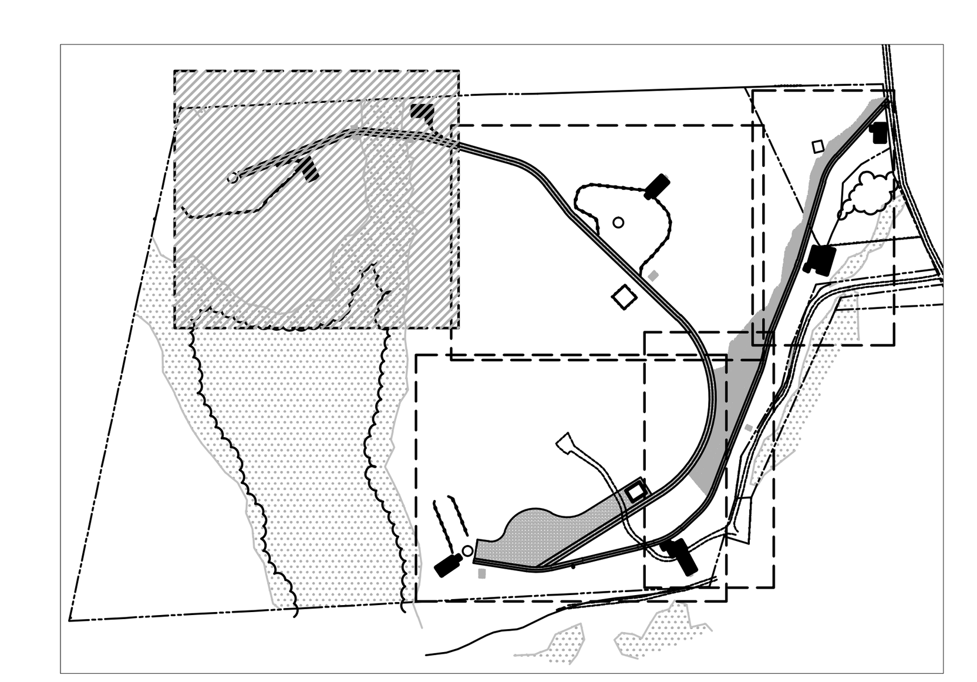
11. SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.



KEYPLAN

0 40 80

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

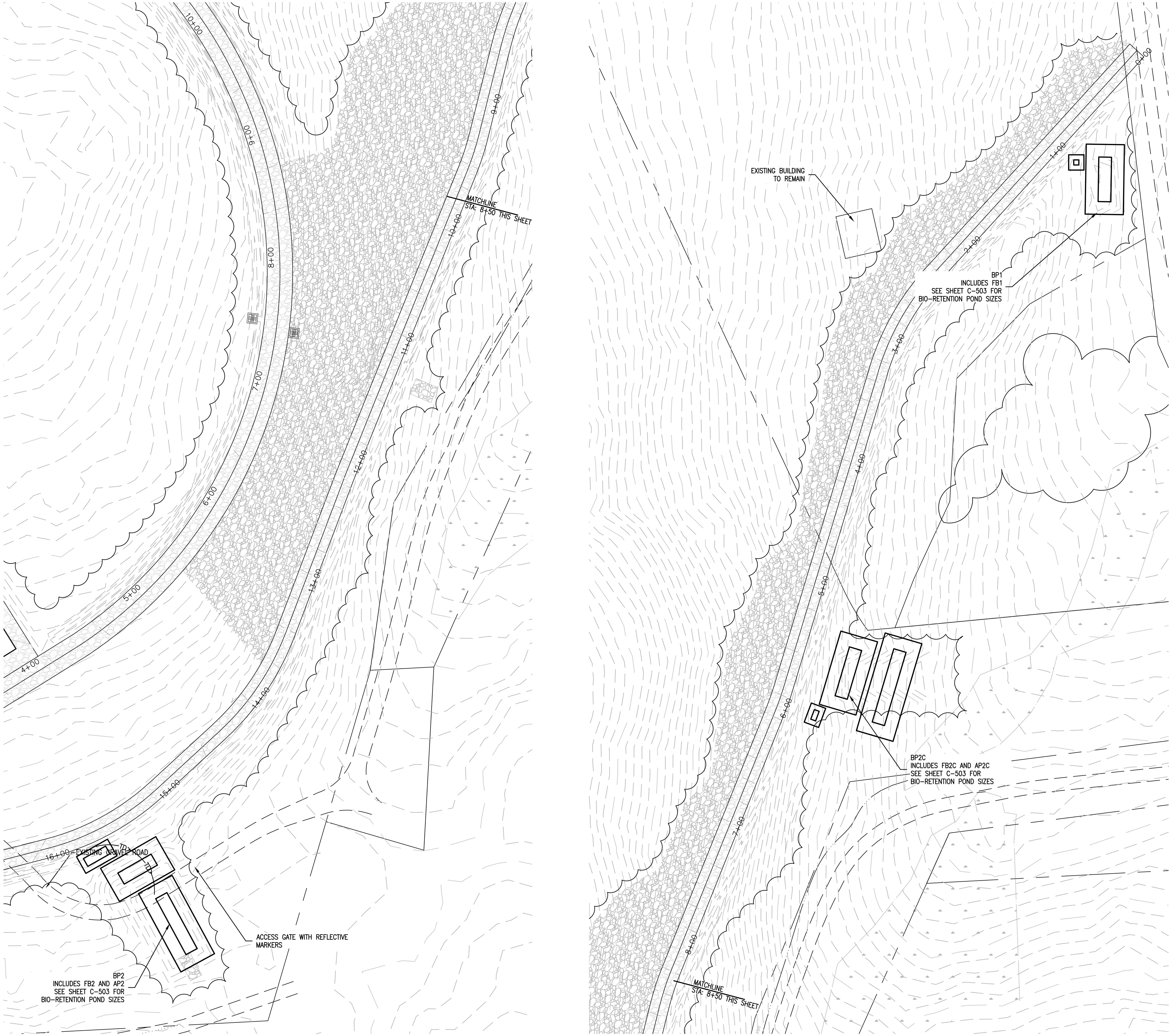
DESIGNED BY: RSS		DATE: 03-14-11
DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME:	

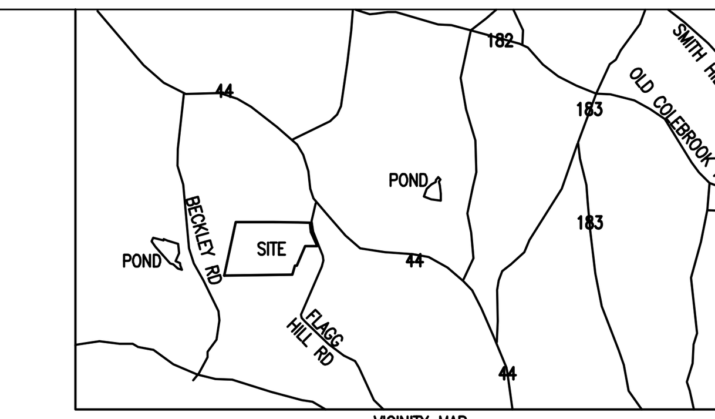
ZAPATA
TRUST · INTEGRITY · QUALITY
6302 FAIRVIEW ROAD #600 PHONE: (704) 358-8240
CHARLOTTE, NC 28210 FAX: (704) 358-8342
ZAPATA@ZAPATAINC.COM WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
CONNECTICUT

TURBINE LOCATION THREE
POST CONSTRUCTION GRADING PLAN

SHEET IDENTIFICATION
C-313





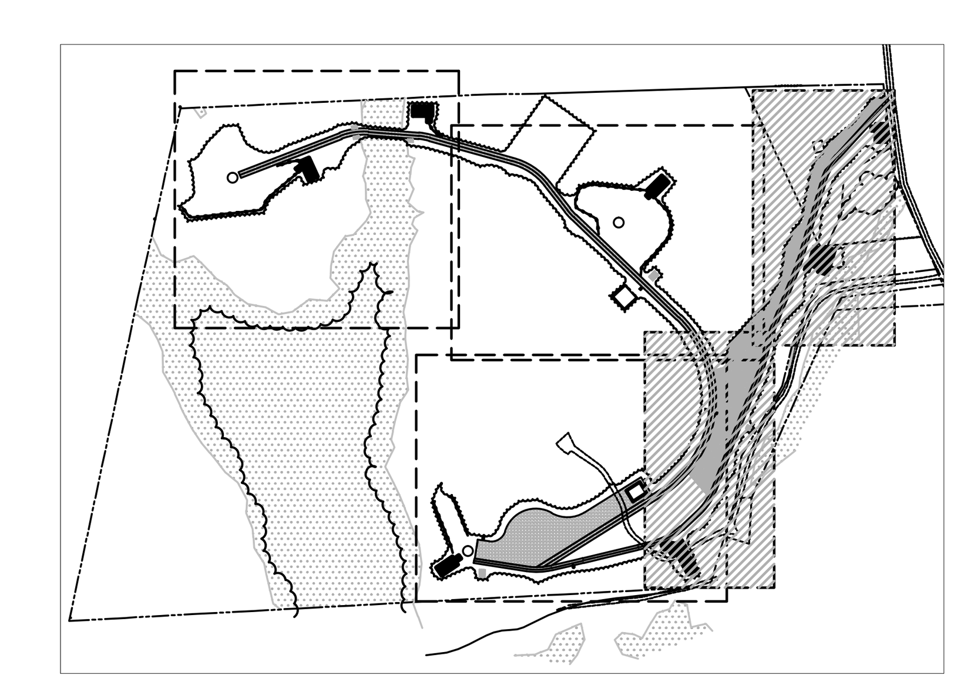
VICINITY MAP

LEGEND

CULVERT PIPE	
DITCH LINE	
EXISTING TOPO	
NEW TOPO	
WETLAND LIMITS	
VEGETATION	
COMPACTED EARTH	
WETLAND	
GRAVEL	
LAYDOWN AREA	
CULVERT PIPE/SLOPE DRAIN	

GRADING NOTES:

1. DISCREPANCIES SHOULD BE NOTED AND GUIDANCE OBTAINED FROM THE ENGINEER PRIOR TO CONTINUING WORK.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ALL EXISTING UNDERGROUND UTILITIES.
3. GENERAL CONTRACTOR TO MONITOR STORM WATER RUNOFF DURING AND AFTER CONSTRUCTION TO ENSURE PROPER DRAINAGE AWAY FROM PROPOSED BUILDING AND DRIVE.
4. 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.
5. ALL HARD SURFACES SHALL HAVE A SLOPE AS INDICATED ON DRAWINGS.
6. GENERAL CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM TOWER PADS.
7. MASS GRADING WILL NOT BE CONDUCTED ON THIS SITE.
8. ALL EROSION CONTROL STRUCTURES TO BE INSTALLED PRIOR TO CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
10. ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
11. SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, OR AS AMENDED.



KEYPLAN

0 20 40

BNE Energy Inc.
Producer of green clean energy

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2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
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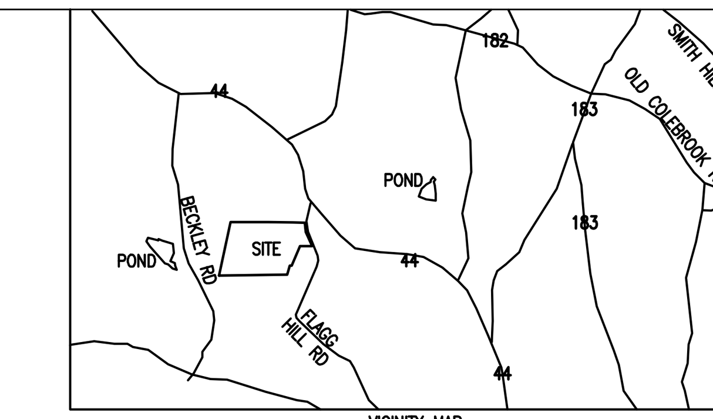
FILE NAME: W:\Projects\BNE Energy Inc\Data\CAD\1355-010 Colebrook South\C310_POSTGRAD.dwg

ZAPATA
6302 FAIRVIEW ROAD #600 PHONE: (704) 358-8240
CHARLOTTE, NC 28210 FAX: (704) 358-8342
ZAPATA@ZAPATAINC.COM WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
CONNECTICUT

ACCESS ROAD STA: 0+00 TO 15+16
POST CONSTRUCTION GRADING PLAN

SHEET IDENTIFICATION
C-314



VICINITY MAP

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

SITE DESCRIPTION
THE PROPERTY IS LOCATED AT 29 FLAGG HILL ROAD AND CONSISTS OF APPROXIMATELY 79.74 ACRES AND IS UNDEVELOPED WITH THE EXCEPTION OF THE METEOROLOGICAL TOWER, WHICH IS APPROXIMATELY 197 FEET IN HEIGHT. THE PROPERTY IS LOCATED ALONG THE NORFOLK TOWN LINE AND APPROXIMATELY 600 FEET FROM THE WINSTED/ WINCHESTER RESIDENTIAL DEVELOPMENT. THE PROPERTY IS LOCATED IN THE R-2 RESIDENTIAL ZONE. THE COLEBROOK ZONING REGULATIONS DO NOT ADDRESS WIND TURBINE INSTALLATIONS. THE PROPERTY IS ABUTTED BY THE UNDEVELOPED LAND OWNED BY THE NATURE CONSERVANCY TO THE WEST, LAND OWNED BY THE GUN CLUB TO THE NORTH AND RESIDENTIAL PROPERTIES TO THE EAST AND SOUTH. THE SITE IS CURRENTLY ACCESSED VIA FLAGG HILL ROAD. THIS ACCESS POINT WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PORCESS.

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, INSPECT FREQUENTLY BEFORE, DURING AND AFTER PUMPING 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, INSPECT FREQUENTLY BEFORE, DURING AND AFTER PUMPING 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 ADDRESSED.

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.

12. APPLY STABILIZATION MEASURES TO REMAINING DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.

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 ARE 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 FORM THE SITE. A SUMP 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: 79.74 ACRES
TOTAL AREA OF PROJECT SITE: 79.74 ACRES
AREA TO BE CLEARED: 622711 SQ FT / 14.30 ACRES
AREA WITHIN 100' WETLAND OFFSET: 66853 SQ FT / 1.55 ACRES

CONSTRUCTION PHASE:
TOTAL CUT: 31435 CUBIC YARDS
TOTAL FILL: 25985 CUBIC YARDS

OFF-SITE WASTE / BORROW AREA LOCATION: NOT APPLICABLE

THIRD PARTY INSPECTIONS

1. A THIRD PARTY ENVIRONMENTAL INSPECTOR SHALL INSPECT THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AND THE CONNECTICUT WATER COMPANY SHALL BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO THE START OF EROSION AND SEDIMENTATION CONTROLS INSTALLATION. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE THIRD PARTY ENVIRONMENTAL INSPECTOR, CONNECTICUT WATER COMPANY AND GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

2. A THIRD PARTY ENVIRONMENTAL INSPECTOR WILL MONITOR EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD TO ENSURE THAT CONTROLS ARE PROPERLY MAINTAINED AND ANY RECOMMENDATIONS TO REMEDIATE FAILING CONTROLS OR REMOVE ACCUMULATED SEDIMENT ARE IMPLEMENTED BY THE CONTRACTOR IN A TIMELY FASHION.

3. A THIRD PARTY ENVIRONMENTAL INSPECTOR SHALL MONITOR EROSION AND SEDIMENTATION CONTROLS ON A WEEKLY BASIS OR WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR GREATER.

4. EROSION AND SEDIMENTATION CONTROL MONITORING REPORTS WILL BE PREPARED BY THE THIRD PARTY ENVIRONMENTAL INSPECTOR ON A BI-WEEKLY BASIS AND SUBMITTED TO THE CONNECTICUT SITING COUNCIL AND CONNECTICUT WATER COMPANY. IF SIGNIFICANT FAILURE OF EROSION AND SEDIMENTATION CONTROLS RESULT IN IMPACT TO WETLAND RESOURCES ON THE SUBJECT PROPERTY, THE CONNECTICUT SITING COUNCIL WILL BE NOTIFIED WITHIN 24 HOURS AND CONNECTICUT WATER COMPANY SHALL BE NOTIFIED IMMEDIATELY OF SUCH AN EVENT AND RECOMMENDED REMEDIATION MEASURES WILL BE IDENTIFIED.

5. THE CONNECTICUT WATER COMPANY SHALL BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO THE START OF INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND WILL HAVE ACCESS TO THE SITE AT ALL TIMES FOR INSPECTION.

SPILL PREVENTION PLAN

THE PROPOSED PROJECT IS LOCATED IN THE NEW NAUGATUCK RESERVOIR PUBLIC DRINKING WATER SUPPLY WATERSHED. AS A RESULT, THE CONTRACTOR SHALL TAKE CERTAIN PRECAUTIONS NECESSARY TO CONTAIN AND PROPERLY CLEAN UP ANY INADVERTENT FUEL OR PETROLEUM (I.E., OIL, HYDRAULIC FLUID, ETC.) SPILLS. A SPILL CONTAINMENT KIT CONSISTING OF A SUFFICIENT SUPPLY OF ABSORBENT PADS AND ABSORBENT MATERIAL SHALL BE MAINTAINED ON SITE THROUGHOUT THE DURATION OF THE PROJECT. IN ADDITION, A WASTE DRUM SHALL BE KEPT ON SITE TO CONTAIN ANY USED ABSORBENT PADS/MATERIAL FOR PROPER DISPOSAL OFF SITE. REFUELING AND MAINTENANCE OF VEHICLES OR MACHINERY SHALL TAKE PLACE IN A DESIGNATED AREA WITHIN THE CRANE ASSEMBLY AREA. FUEL AND OTHER HAZARDOUS MATERIALS SHALL BE STORED WITHIN A DESIGNATED AREA WITHIN THE CRANE ASSEMBLY AREA AND UTILIZE APPROPRIATE SECONDARY CONTAINMENT.

THE FOLLOWING PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR IN CASE OF A PETROLEUM RELEASE.

INITIAL RESPONSE
- STOP OPERATIONS AND SHUT OFF EQUIPMENT.
- REMOVE ANY SOURCES OF SPARK OR FLAME.
- CONTAIN THE SOURCE OF THE SPILL.
- DETERMINE THE APPROXIMATE VOLUME OF THE SPILL.
- IDENTIFY THE LOCATION OF NATURAL FLOW PATHS TO PREVENT THE RELEASE OF THE SPILL TO SENSITIVE NEARBY WATERWAYS OR WETLANDS.
- ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL.

CLEAN UP & CONTAINMENT
- OBTAIN SPILL RESPONSE MATERIALS FROM THE ON-SITE SPILL RESPONSE KIT.
- LIMIT THE SPREAD OF THE SPILL BY PLACING ABSORBENT MATERIALS AROUND THE PERIMETER OF THE SPILL.
- CONTACT THE CONNECTICUT WATER COMPANY IMMEDIATELY AT (800) 428-3985 OR (860) 669-8630 ALONG WITH OTHER APPROPRIATE LOCAL, STATE AND/OR FEDERAL AGENCIES, AS NECESSARY.
- CONTACT A DISPOSAL COMPANY TO PROPERLY DISPOSE OF CONTAMINATED MATERIALS.

FOLLOW-UP
- COMPLETE AN INCIDENT REPORT.
- SUBMIT A COMPLETED INCIDENT REPORT TO THE CONNECTICUT WATER COMPANY.

CALL BEFORE YOU DIG:
1-800-922-4455

SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

NOT FOR CONSTRUCTION - CONNECTICUT SITING COUNCIL USE ONLY

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DWN BY: RSW	CKD BY: TLK	
SUBMITTED BY: BNE ENERGY		
PLOT SCALE: AS SHOWN	PLOT DATE: 03-14-11	FILE NUMBER: 1355
SIZE: ANSI D	FILE NAME:	

WIND COLEBROOK SOUTH
CONNECTICUT

EROSION CONTROL NOTES

SHEET IDENTIFICATION
C-500

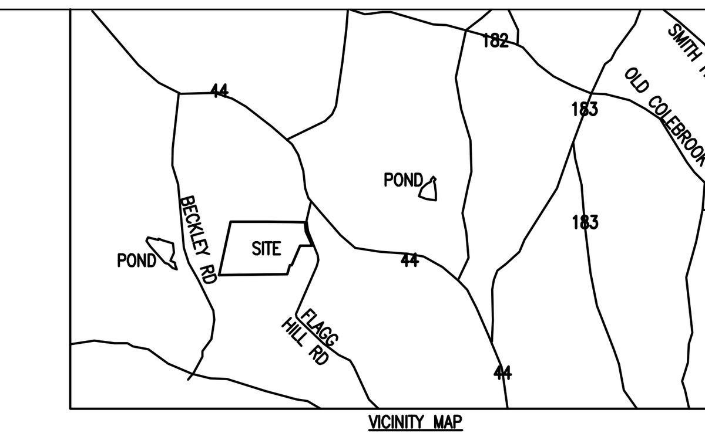
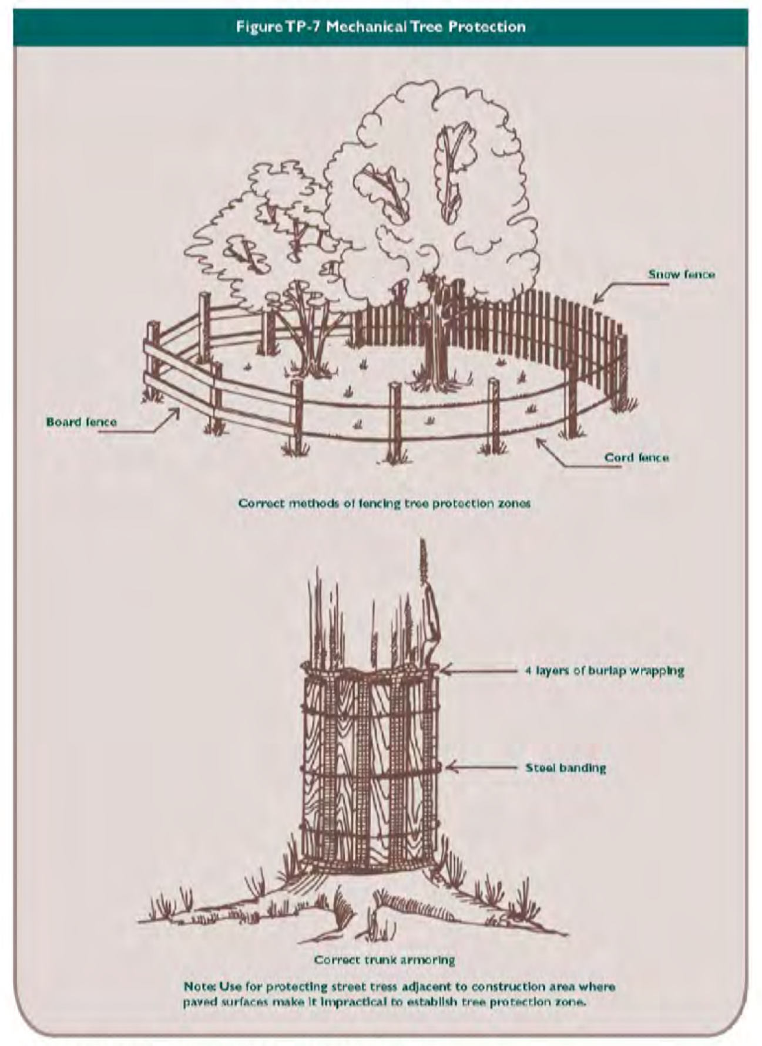


Figure TP-7 Mechanical Tree Protection



1 TREE PROTECTION
Scale: NTS

3-Vegetative Soil Cover
Temporary Seeding (TS)

Figure TS-1 Soil Texture vs. Liming Rates

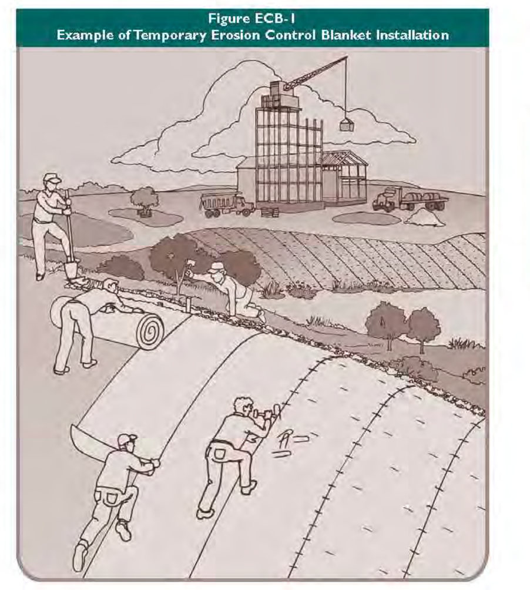
Figure TS-2 Temporary Seeding Rates and Dates

2 SOIL COVER
Scale: NTS

4-Short Term Non-living Soil Protection
Temporary Erosion Control Blanket (ECB)

5-Stabilization Structures
Temporary Lined Chute (TC)

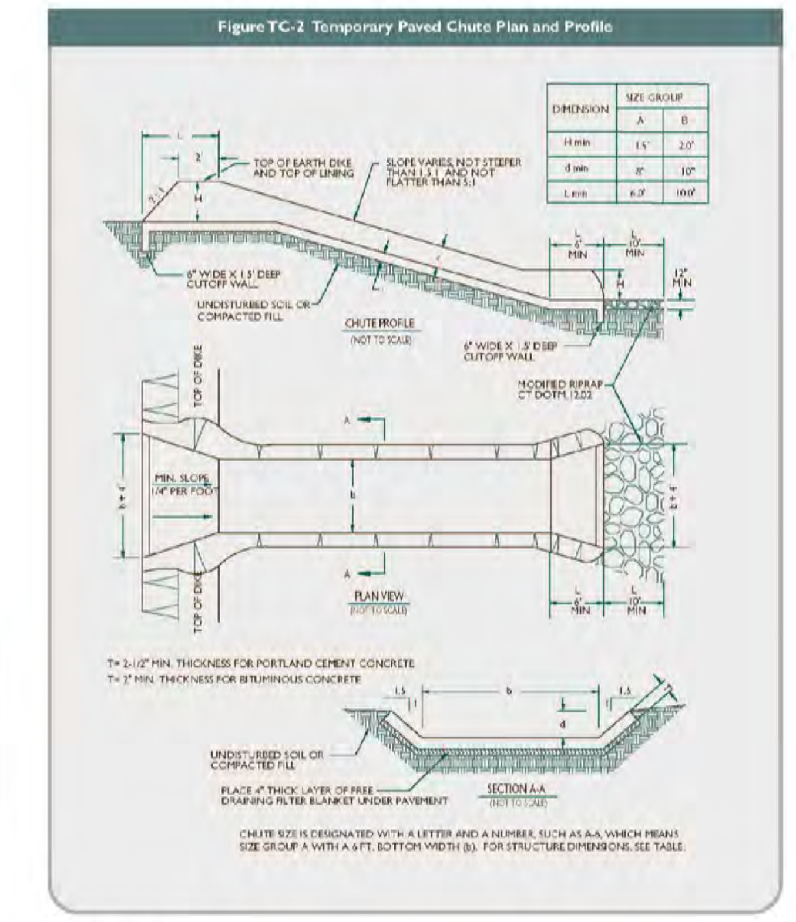
Figure ECB-1 Example of Temporary Erosion Control Blanket Installation



3 GEO-TEXTILE MAT
Scale: NTS

Figure TC-1 Chute Size Determination

Figure TC-2 Temporary Paved Chute Plan and Profile

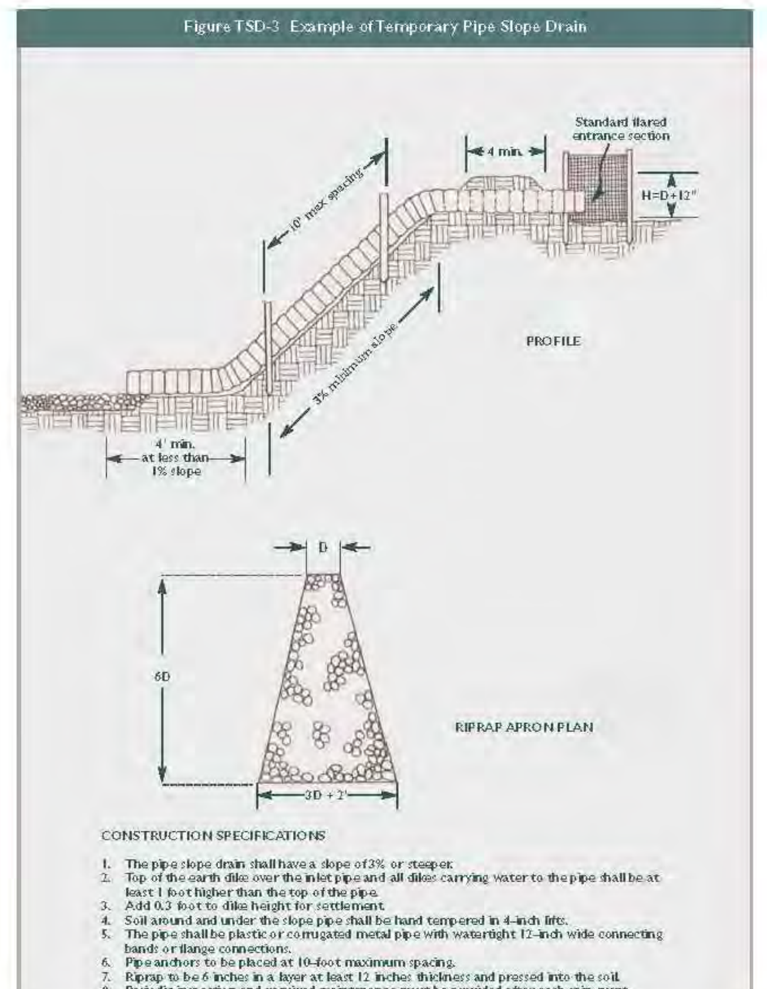


4 LINED CHUTE STABILIZATION
Scale: NTS

5-Stabilization Structures
Temporary Pipe Slope Drain (TSD)

Figure TSD-1 Size of Slope Drain

Figure TSD-2 Example of Temporary Pipe Slope Drain



5 TEMPORARY PIPE SLOPE DRAIN
Scale: NTS

7-Diversions
Temporary Diversion (TD)

6 TEMPORARY DIVERSION DITCH
Scale: NTS

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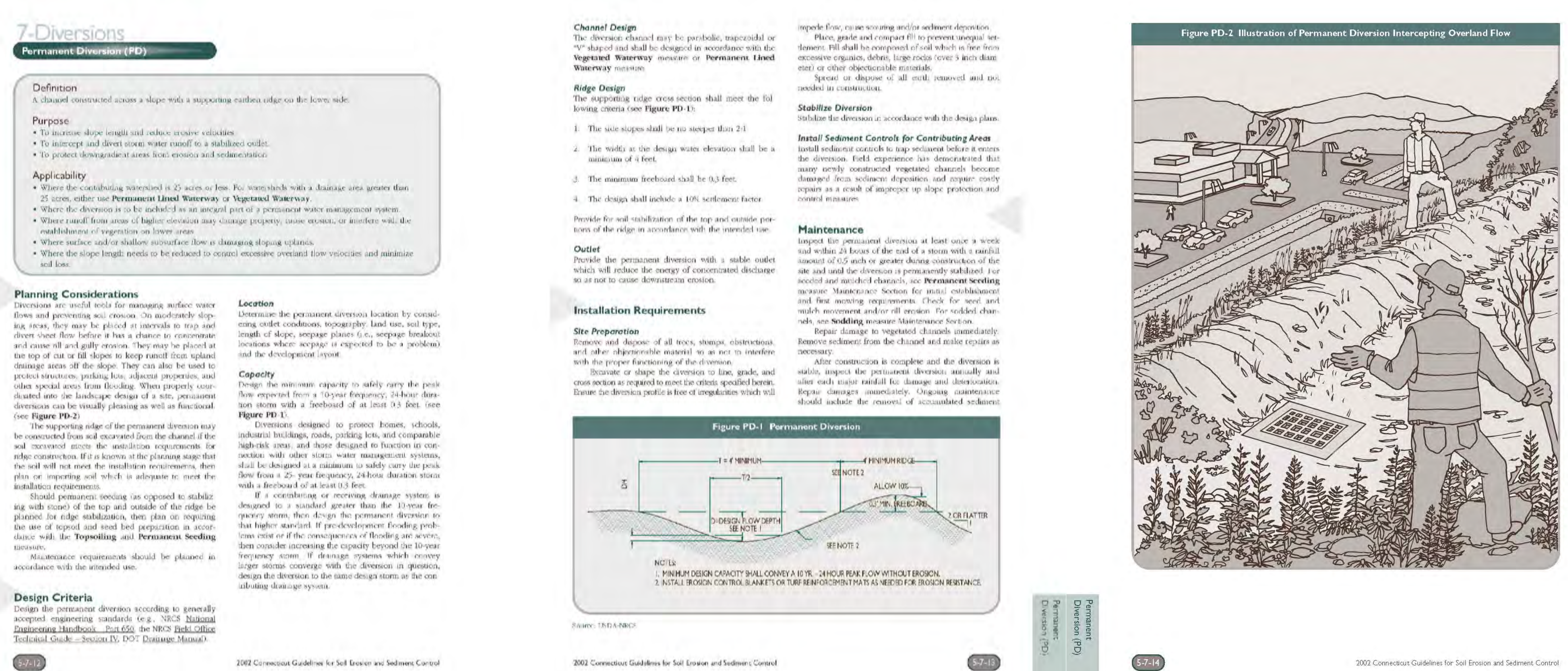
SIZE: ANSI D | FILE NAME: W:\Projects\BNE Energy Inc\Data\CAD\1355-010 Colebrook South\C500_DETL.dwg

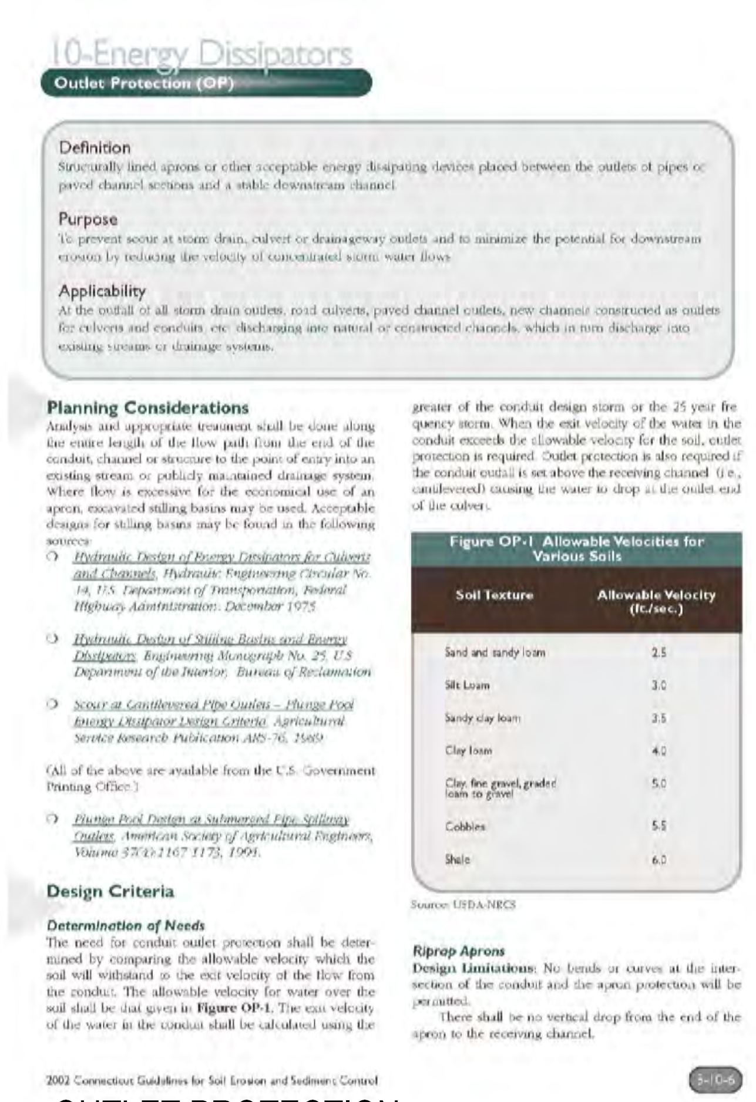
WIND COLEBROOK SOUTH
CONNECTICUT

EROSION CONTROL DETAILS

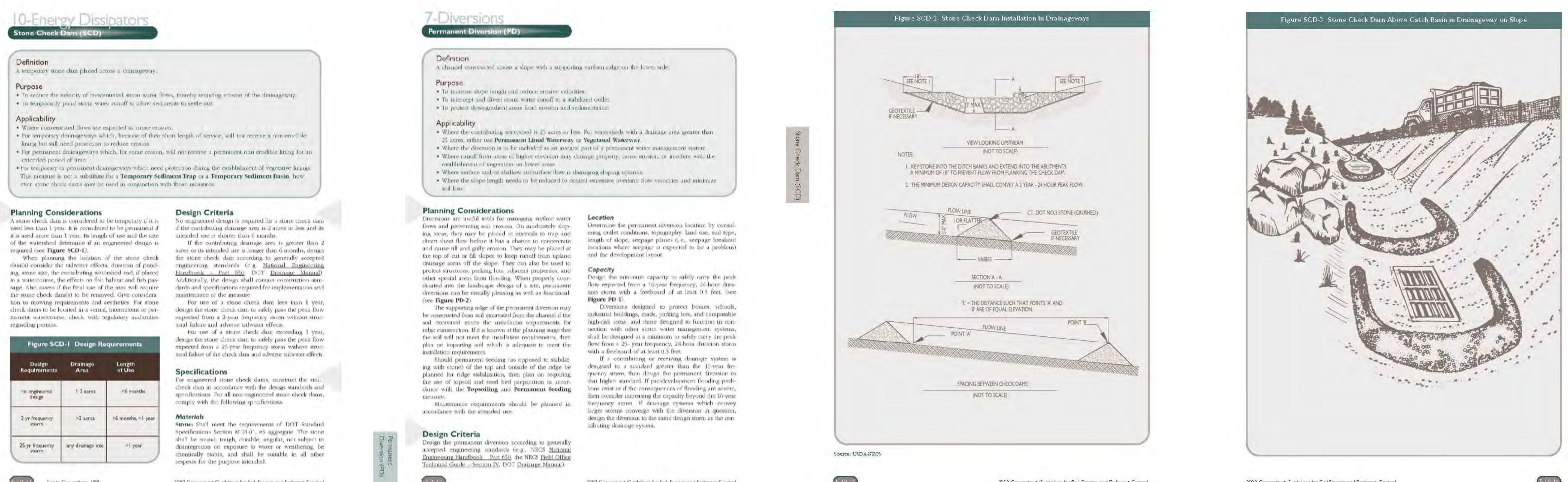
SHEET IDENTIFICATION
C-501



1 PERMANENT DIVERSION SWALES
Scale: NTS

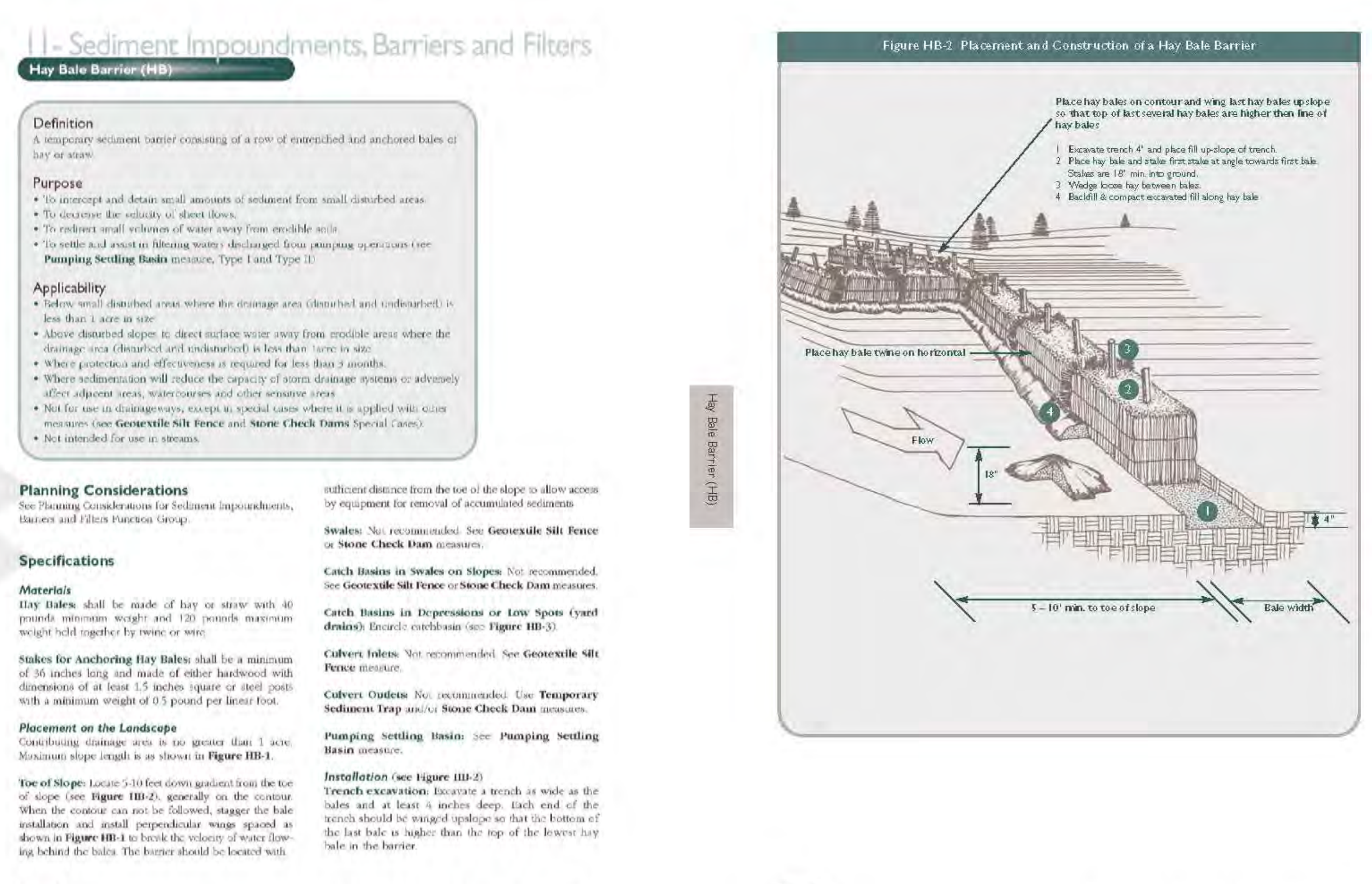


2 OUTLET PROTECTION
Scale: NTS

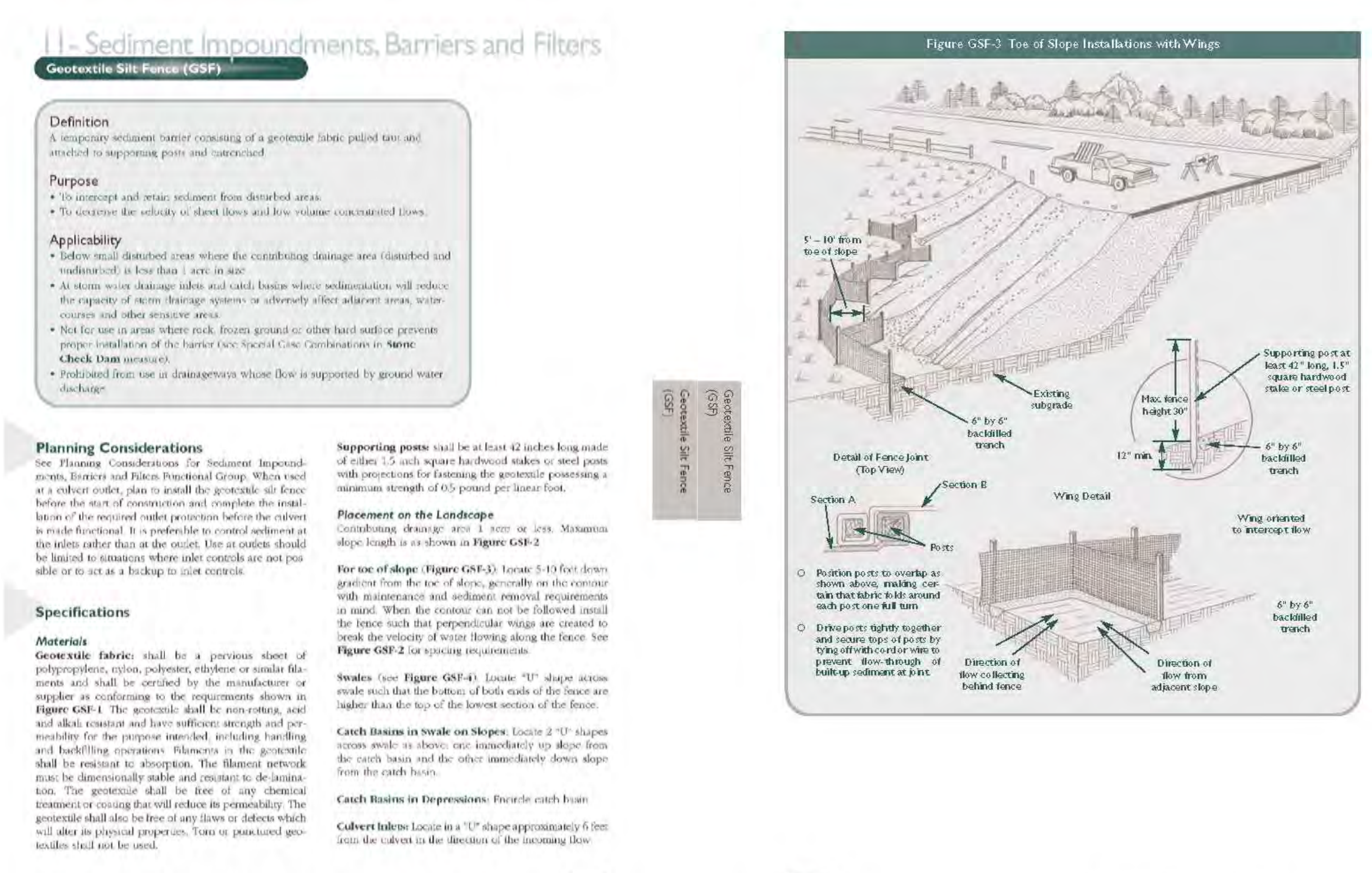


3 STONE CHECK DAM
Scale: NTS

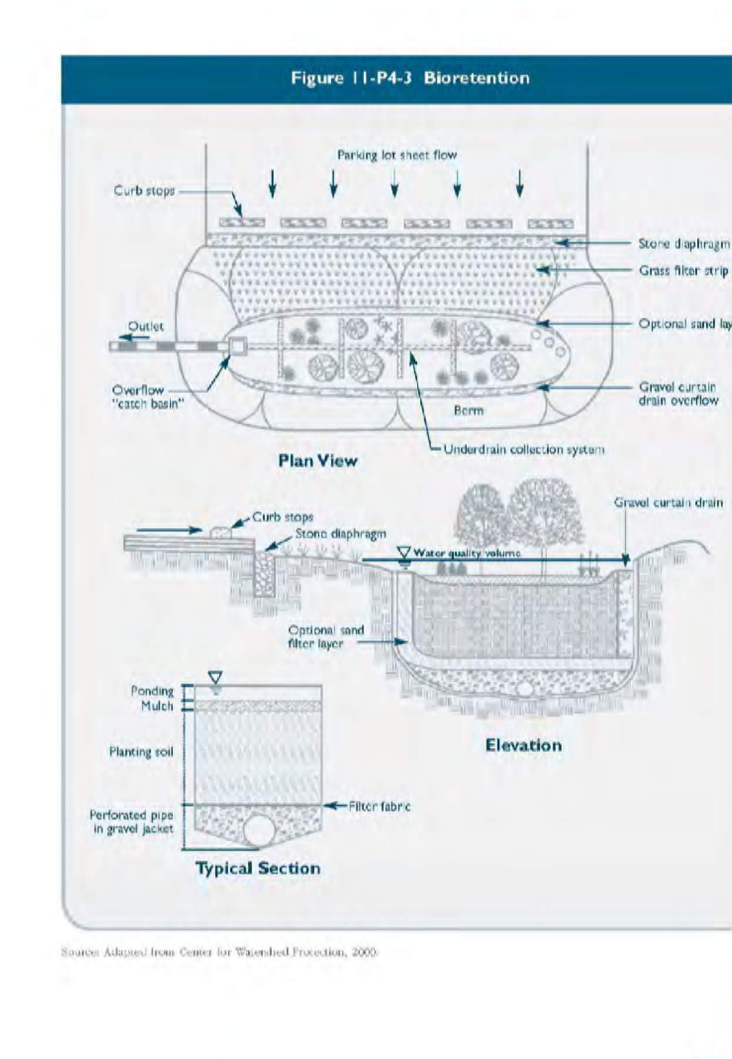
4 WETLAND CROSSING
Scale: NTS



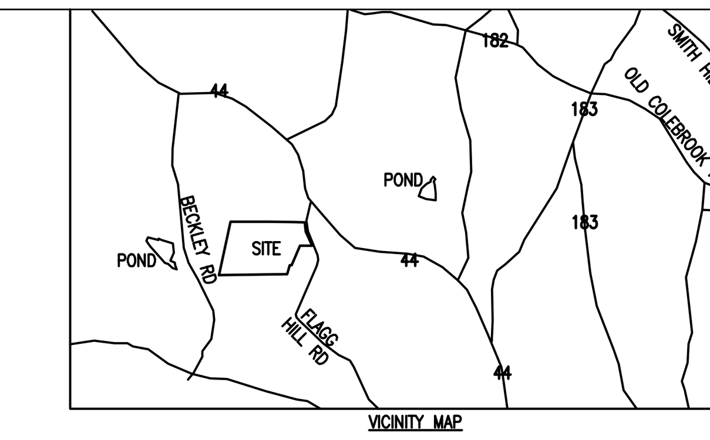
5 HAY BALE BARRIER
Scale: NTS



6 SILT FENCE
Scale: NTS



7 BIORETENTION POND
Scale: NTS



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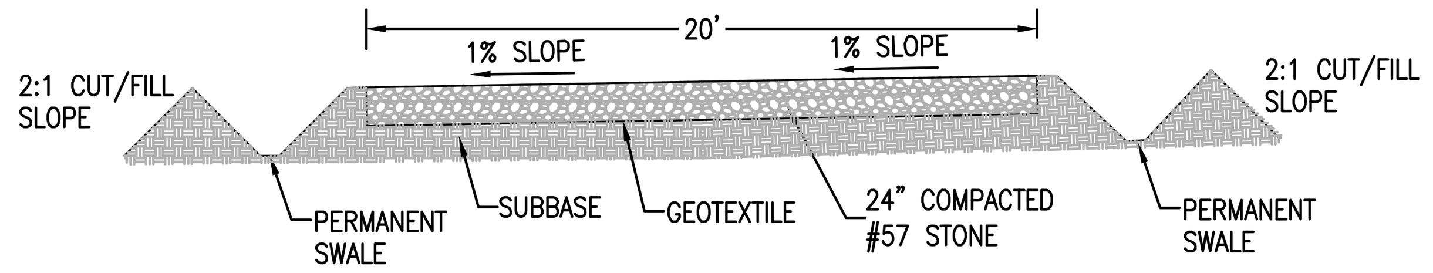
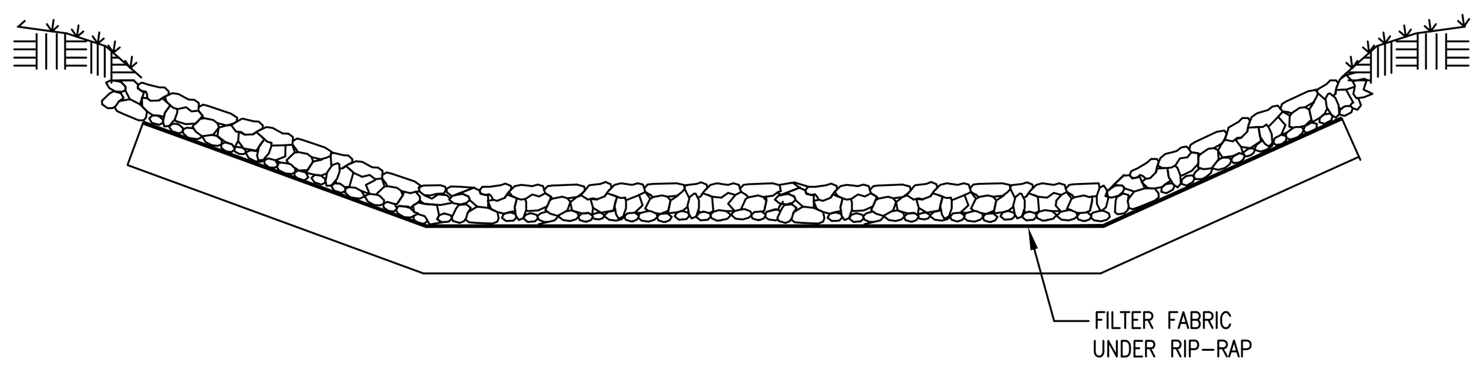
WIND COLEBROOK SOUTH
CONNECTICUT

EROSION CONTROL DETAILS

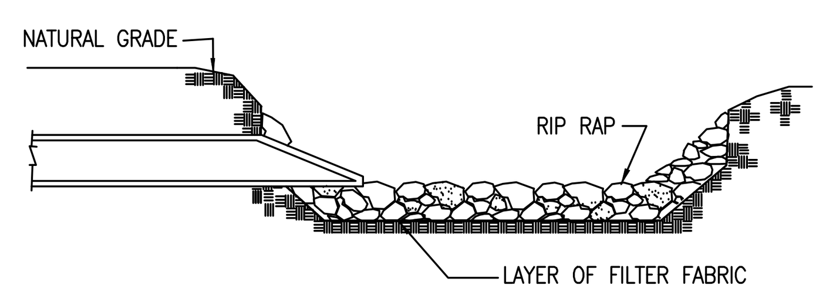
SHEET IDENTIFICATION
C-502



1 CRANE ROAD CROSS SECTION
ACCESS ROAD CROSS SECTION Scale: 1:10



2 TYPICAL GRAVEL LINED DITCH
Scale: NTS



3 TYPICAL CULVERT PIPE INLET/ OUTLET
Scale: NTS

Technical Bulletin

French Mattress

FRENCH MATTRESS –A structure under a road consisting of coarse rock wrapped in fabric through which water can freely pass. A *French mattress* is basically a French drain that is used similar to a culvert to allow water passage through the roadbed.

Side view cut-away diagram of a French mattress. Side view of an actual French mattress.

PURPOSES: The primary function of a *French mattress* is to provide load support and to establish, maintain, or equalize the subsurface water on both sides of the road. The use of *French mattresses* in road maintenance is a relatively new concept. Please contact the Center for Dirt & Gravel Road Studies with any questions or concerns.

HOW THEY WORK:
Support strength is provided by large rocks in the lower portions and by spreading the weight load with layers of progressively smaller rock near the top. Water moves into the *French mattress* from any direction through the protective geo-textile fabric, which functions to prevent migration of fine material. The water collects in the voids provided by the larger rock and moves by gravity either into the subsurface drainpipes, if provided, or exits as a gentle seep on the downhill end of the structure.

BENEFITS OF A *FRENCH MATTRESS*:
- Corrects road support problems in areas where the road base has been weakened by water saturation caused when the road acts as a dam to natural water flow.
- Allows for natural equalization of subsurface water on both sides of a road.
- Requires little, if any, maintenance compared to cross-drainage culverts.
- Eliminates the need for additional cross pipes in some instances.
- Allows a gentle, non-erosive water discharge rather than concentrated flow.
- Provides an indefinite service life if not compromised by heavy flows of sediment.

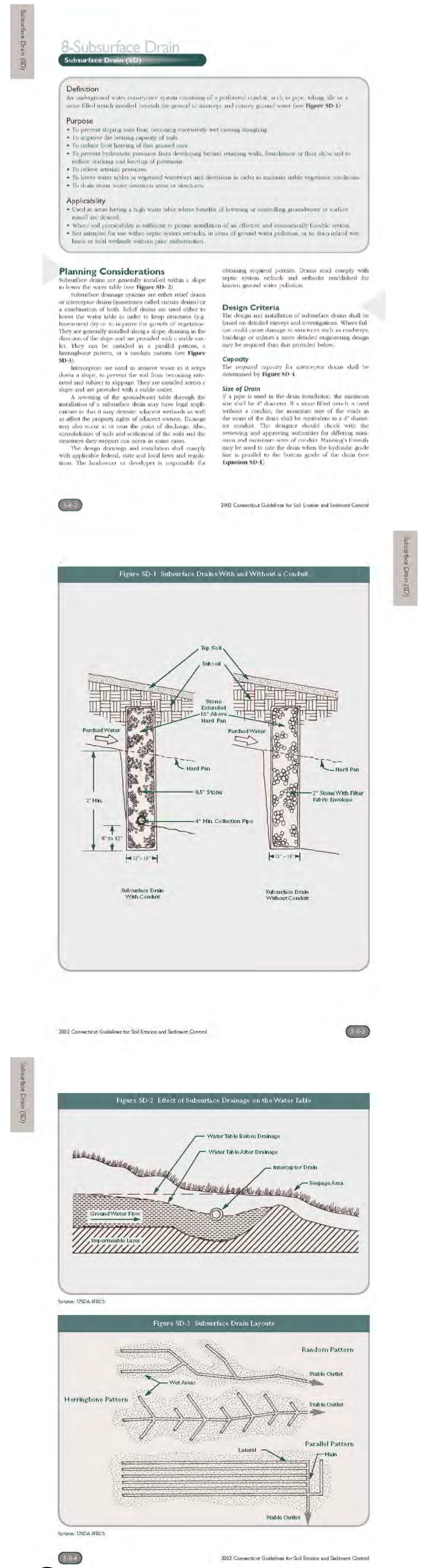
WHERE TO USE A *FRENCH MATTRESS*:
- Areas where concentrated outlet flow through a pipe may be undesirable, impractical, or regulated.
- Low-lying areas near streams or wetlands where installing cross drains would be difficult.
- Areas where a road is acting as an impoundment or dam to the natural water flow by isolating subsurface water on one side of the road from the other.
- Areas where placement of a pipe at the depth necessary to provide structural cover would lower the natural water table of the area and require long term maintenance.

IMPORTANT CONSIDERATIONS
- Materials: The core material for the mattress should be large clean stone, typically referred to as R4'. A general rule is that the depth of the mattress needs to be at least three times the diameter of the largest stone used. Smaller stone, such as #3's should be placed on top of the large stone. Progressively smaller stone should be place on top to prevent tearing of the fabric. The structure should be wrapped in heavy-duty, non-woven separation fabric.
- Dimensions: The length of the mattress must, at a minimum, equal the width of the road, but can extend out of the road area to equalize drainage. Mattress width and stone size depend on the amount of water that needs to pass through. In wetland settings, the mattress should be as wide as possible to allow slow lateral flow and avoid concentrating the outlet drainage. Mattress depth depends on stone size, depth available, and desired drainage patterns.
- Equipment: Most mattresses can be installed easily with a backhoe and a truck to haul stone.

CONSTRUCTION: *Refer to numbered pictures on right.*
1. Excavate the section of the road where the mattress will be located to desired depth. Lay heavy-duty separation fabric in the bottom of the area after excavation and leveling. Use bedding material if necessary to protect fabric. Leave enough fabric on the ends to wrap around and overlap with top fabric later.
2. Place large stone, typically R4', on top of the fabric and spread out into a uniform bed.
3. Place a layer of smaller stone such as #3's on top of the R4'. Be careful not to intermix the two stone sizes. The empty space between the large stones, and therefore flow capacity, will be reduced if the small stone is intermixed. Spread increasingly smaller stone on top to create layer that will not puncture fabric.
4. Wrap ends of lower fabric up on top of structure. Place a piece of fabric on the top if existing fabric does not completely cover mattress. All fabric "joints" should overlap by at least 18".
5. Place bedding material and fill over the mattress if necessary. Place driving surface aggregate (DSA) over the structure according to normal program specifications and procedures.

TYPICAL REQUIREMENTS:
While these figures will vary with the size of structure and individual site conditions, here is what was required for the 20' x 12' x 1.5' mattress illustrated on the right.
- 3 Hours of work with a Case 580 Backhoe
- 20 tons of clean R4' rock (large rock)
- 8 tons of clean #3' rock (small rock on top)
- 85 Square yards of heavy-duty geo-textile (fabric)
- Sufficient fill and driving surface aggregate over fabric (minimum of 6 inches recommended after compaction)

4 WETLAND CROSSING
FRENCH MATTRESS Scale: NTS



5 SUB-SURFACE DRAIN
Scale: NTS

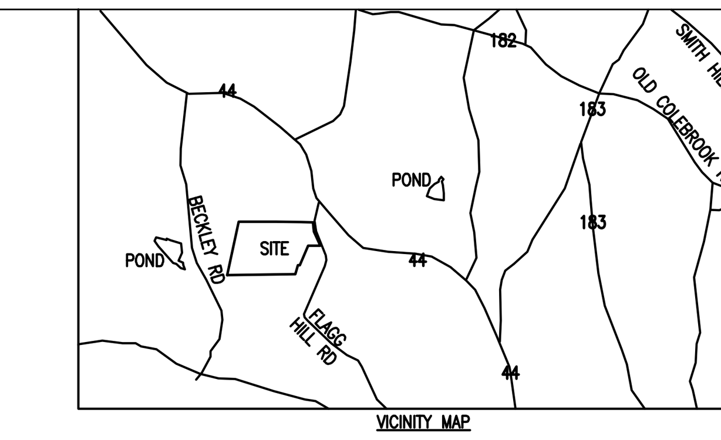
POST-CONSTRUCTION BIORETENTION PONDS					
POND TYPE	POND NUMBER	"BOTTOM SIZE (FT)"	"DEPTH (FT)"	"TOP SIZE (FT)"	SIDE SLOPES
ATTENUATION POND	AP2	10 x 50	5.0000	30 x 70	2:1
ATTENUATION POND	AP2C	10 x 60	5.0000	30 x 80	2:1
BIORETENTION POND	BP1	10 x 35	5.0000	30 x 55	2:1
BIORETENTION POND	BP2	10 x 30	5.0000	30 x 50	2:1
BIORETENTION POND	BP2C	10 x 40	5.0000	30 x 60	2:1
BIORETENTION POND	BP3	10 x 40	5.0000	30 x 60	2:1
BIORETENTION POND	BP4	10 x 45	5.0000	30 x 65	2:1
BIORETENTION POND	BP5	10 x 40	5.0000	30 x 60	2:1
BIORETENTION POND	BP6	10 x 45	5.0000	30 x 65	2:1
FOREBAY POND	FB1	4 x 4	2.0000	12 x 12	2:1
FOREBAY POND	FB2	7 x 20	2.0000	15 x 28	2:1
FOREBAY POND	FB2C	4 x 8	2.0000	12 x 16	2:1
FOREBAY POND	FB3	4 x 8	2.0000	12 x 16	2:1
FOREBAY POND	FB4	4 x 4	2.0000	12 x 12	2:1
FOREBAY POND	FB5	4 x 8	2.0000	12 x 16	2:1
FOREBAY POND	FB6	4 x 8	2.0000	12 x 16	2:1

NOTES:
1. FINAL GRADING DETAILS FOR THE BIO-RETENTION PONDS WILL BE PROVIDED IN THE DEVELOPMENT AND MANAGEMENT PHASE OF THE PROJECT AND AFTER TOPOGRAPHIC SURVEY AND GEO-TECHNICAL INFORMATION IS AVAILABLE.

2. SIZES OF POST CONSTRUCTION BIO-RETENTION PONDS ARE SHOWN ABOVE.

3. FINAL DESIGN FOR THE CRANE ROAD AND ACCESS ROAD CROSS SECTIONS WILL BE COMPLETED DURING THE DEVELOPMENT AND MANAGEMENT PHASE OF THE PROJECT AND AFTER TOPOGRAPHIC SURVEY AND GEO-TECHNICAL INFORMATION IS AVAILABLE.

4. THE FRENCH MATTRESS FINAL DESIGN WILL BE COMPLETED DURING THE DEVELOPMENT AND MANAGEMENT PHASE OF THE PROJECT AND AFTER TOPOGRAPHIC SURVEY AND GEO-TECHNICAL INFORMATION IS AVAILABLE.



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2	INCORPORATED REQUESTED REVISIONS	03-14-11	MLC
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-19-10	TLK

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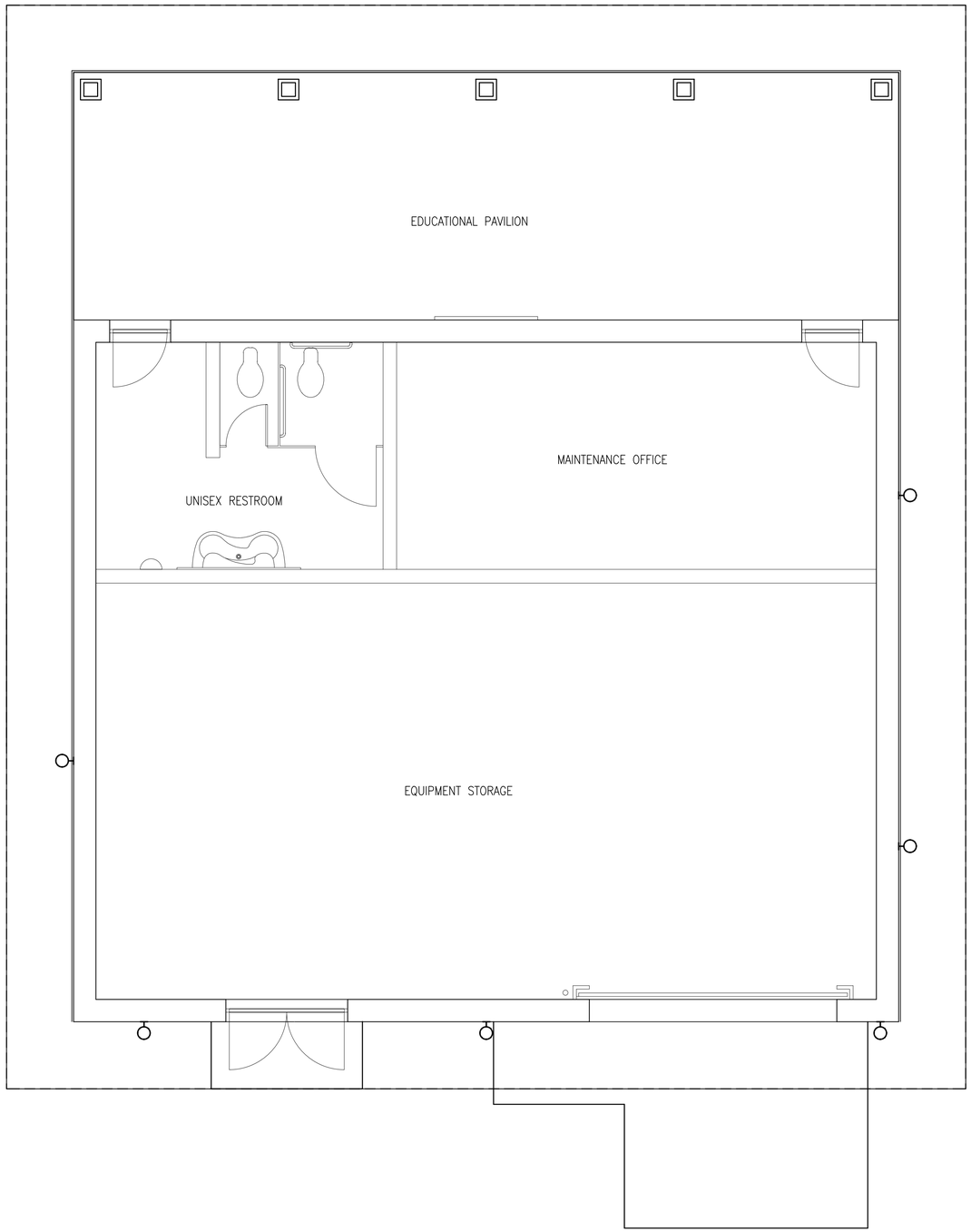
WIND COLEBROOK SOUTH
CONNECTICUT

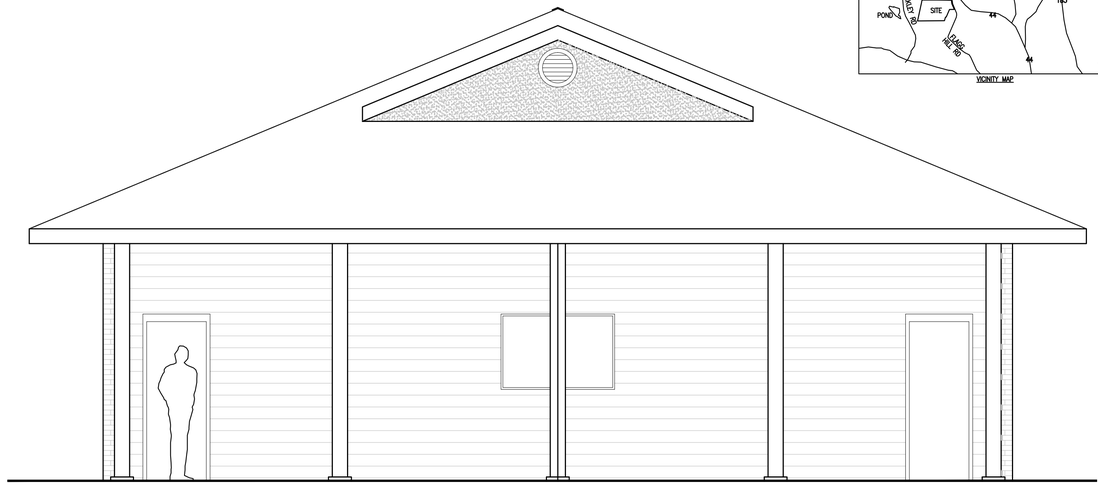
GENERAL DETAILS

SHEET IDENTIFICATION
C-503

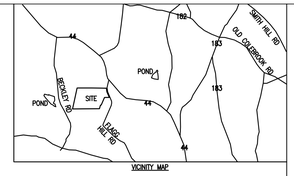
CONCEPTUAL ONLY - FINAL LAYOUT AND
ORIENTATION TO BE DETERMINED



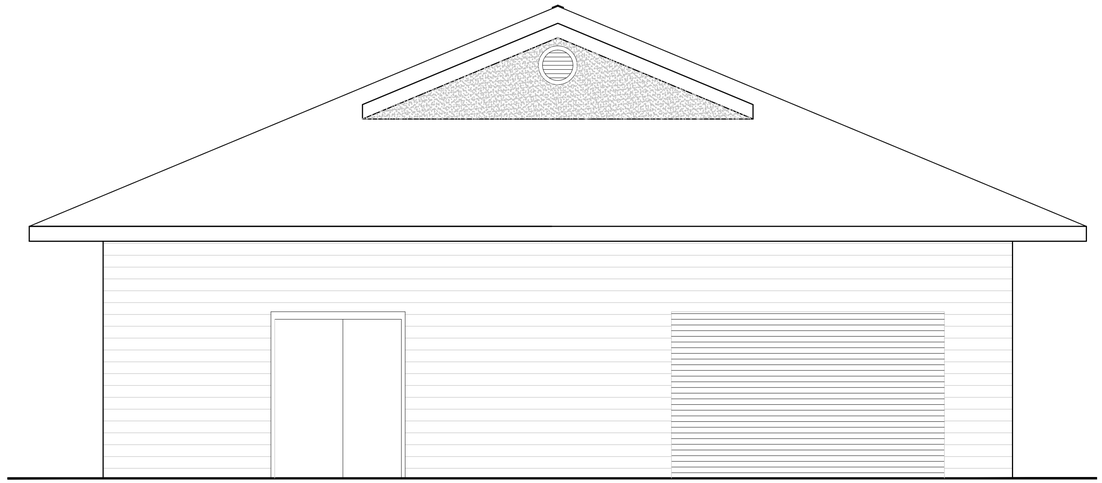
1 FLOOR PLAN



2 FRONT ELEVATION



VICINITY MAP



3 REAR ELEVATION

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CKD BY: TLK
SUBMITTED BY: BNE ENERGY
DATE: 03-14-11
PLOT SCALE: AS SHOWN
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SIZE: ANSI D

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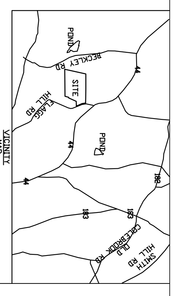
6301 FAIRVIEW ROAD, #400, CHARLOTTE, NC 28210
PHONE: (704) 366-4240
FAX: (704) 366-4342
ZAPATA@ZAPATAINC.COM
WWW.ZAPATAINC.COM

WIND COLEBROOK SOUTH
CONNECTICUT

FACILITY SUPPORT BUILDING

SHEET IDENTIFICATION
A-001



POWER LINETYPE LEGEND

UE ——— UE LINETYPE = UNDERGROUND ELECTRICAL AS DESIGNED BY AME.

OE ——— OE LINETYPE = OVERHEAD ELECTRICAL AS DESIGNED BY EPE.

SHEET IDENTIFICATION
E-101

WIND COLEBROOK SOUTH
CONNECTICUT

ELECTRICAL - SITE PLAN

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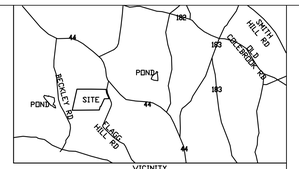
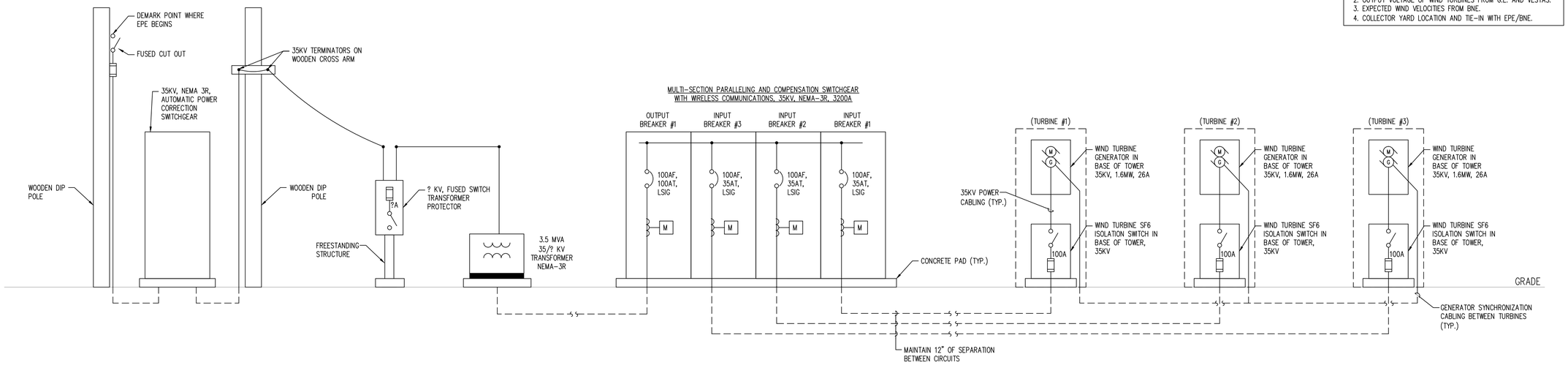


VICINITY MAP

THINGS TO VERIFY:
1. UTILITY TRANSMISSION VOLTAGE RATING PER SITE FROM CL&P.
2. OUTPUT VOLTAGE OF WIND TURBINES FROM G.E. AND VESTAS.
3. EXPECTED WIND VELOCITIES FROM BNE.
4. COLLECTOR YARD LOCATION AND TIE-IN WITH EPE/BNE.



ELECTRICAL – POWER RISER DIAGRAM

SCALE: NO SCALE

BNE Energy Inc.
Producer of green clean energy

MARK	DESCRIPTION	DATE	APPR.
1	CONNECTICUT SITING COUNCIL SUBMISSION	11-18-10	TLK
	NOT FOR CONSTRUCTION		

DESIGNED BY: RSS
DWN BY: BEE
CKD BY: DAJ
SUBMITTED BY: BNE ENERGY
DATE: 11-18-10
PLOT SCALE: AS SHOWN
PLOT STYLE: ANSI D
PLOT DATE: 11-18-10
FILE NAME: 13535
FILE NUMBER: 13535

ZAPATA ENGINEERING, P.A.
6208 FAIRVIEW ROAD #200 CHARLOTTE, NC 28210
PHONE (704) 295-6540 FAX (704) 295-6542
JAPA1@ZAPATAENG.COM WWW.ZAPATAENG.COM

WIND COLEBROOK SOUTH
CONNECTICUT

ELECTRICAL - RISER DIAGRAM

SHEET IDENTIFICATION
E-501