



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS  
696 VIRGINIA ROAD  
CONCORD, MASSACHUSETTS 01742-2751

December 28, 2015

Regulatory Division  
CENAE-R-PEC  
File Number: NAE-2011-196

Pamela Monroe, Administrator  
NH Site Evaluation Committee  
21 South Fruit Street, Suite 10  
Concord, New Hampshire 03301

Dear Ms. Monroe:

This regards the 2015 Antrim Wind Farm project in Antrim New Hampshire. This proposal by Antrim Wind Energy LLC, consists of constructing a series of Wind Tower structures along the Willard Mountain and Tuttle Hill ridgelines and extending down to State Route 9.

The current plans for a Section 404 permit for the Antrim project have been submitted to the Corps of Engineers. This plan set was submitted by Antrim Wind Energy LLC (Applicant) for purposes of determining the Corps permit areas to be used in section 106 evaluations. The Antrim Wind Farm file was assigned Corps file number NAE-2011-196 and has been reopened for this evaluation. For purposes of our permit area review, the Corps is evaluating the entire Antrim Wind Farm project as one permit application.

This response letter follows the email request on 12/15/2015 by Antrim Wind Energy LLC requesting a clarification of the Corps project permit area determination for their project. We have reviewed the site and the site plans for the wind farm proposal for work along the Willard Mountain and Tuttle Hill ridgelines in Antrim New Hampshire along with the DHR comment letter dated June 13, 2013. The current project design consists of a reduction in the extent of the array and the height of the turbines. Turbine 10, the previously southernmost turbine, is no longer included in the project and all infrastructure beyond turbine 9 (roads and electrical collection lines) have also been removed. The remaining nine turbines are located in the same positions as before and the project will continue to occupy the same footprint for access and facilities related to those nine turbines. The turbine model proposed in the 2012 application had an overall blade tip height of 492 feet for all ten turbines. In the current application, Turbine 9 will be 45.8 feet shorter (for a total height of 446.2 feet) and Turbines 1-8 will be 3.2 feet shorter.

Section 106 of the National Historic Preservation Act states "The head of any Federal agency having direct or indirect jurisdiction over a proposed Federal or federally assisted undertaking in any State and the head of any Federal department or independent agency having authority to license any undertaking shall, prior to the approval of the expenditure of any Federal funds on the undertaking or prior to the issuance of any license, as the case may be, take into account the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register."

The Corps has determined the Corps permit areas for this project to be where the fill will be placed in wetlands for the construction of the new substation, a temporary impact for a project laydown (staging) area and culvert installation for road construction providing access to tower 9. The discharge of fill material (i.e., the undertaking) within the permit area as defined by the Corps in accordance with Appendix C is in those 3 locations. White Birch Point has a potential view of wind turbines 2, 3, 4, 5 and part of 6 which are not located within any Corps permit areas.


Approximately 4 years ago the historical review consisting of public meetings seeking public comment, records searches and site visits in each of the towns for the Antrim Wind project. That effort to identify historic resources was conducted by the applicant and NH Division of Historical Resources (DHR). A summary report and effects analysis was submitted by the applicant to the Site Evaluation Committee (SEC), DHR and the Corps of Engineers. The only known historic resource or sensitive area recommended by the DHR for further consultation with the Corps was White Birch Point. White Birch Point was state listed as a historic district during the last 4 years as it was not listed when the project was first proposed. This district is located at its closest point just over 2 miles from the project. Due to the lack of view shed from White Birch Point historic district as the view relates to the three Corps permit areas, the discharge of dredged or fill material for this project has no potential for an effect on this district and does not appear to require further consultation by the Corps under Section 106.

The Corps has no further recommendations for 106 historical reviews based on the historical resources identified and recommended for consultation over the last four years.

The Corps is providing a final Corps permit area determination to the New Hampshire Division of Historical Resources to fulfill their role as advisors to the lead federal agency for potential historical resources or sensitive areas which have not been identified within the Corps permits areas for purposes of Section 106 consultation.

Please contact David Keddell of my staff at 978-318-8692 with any questions or comments.

Sincerely,

  
Frank J. Delgiudice  
Chief, Regulatory Division Branch C

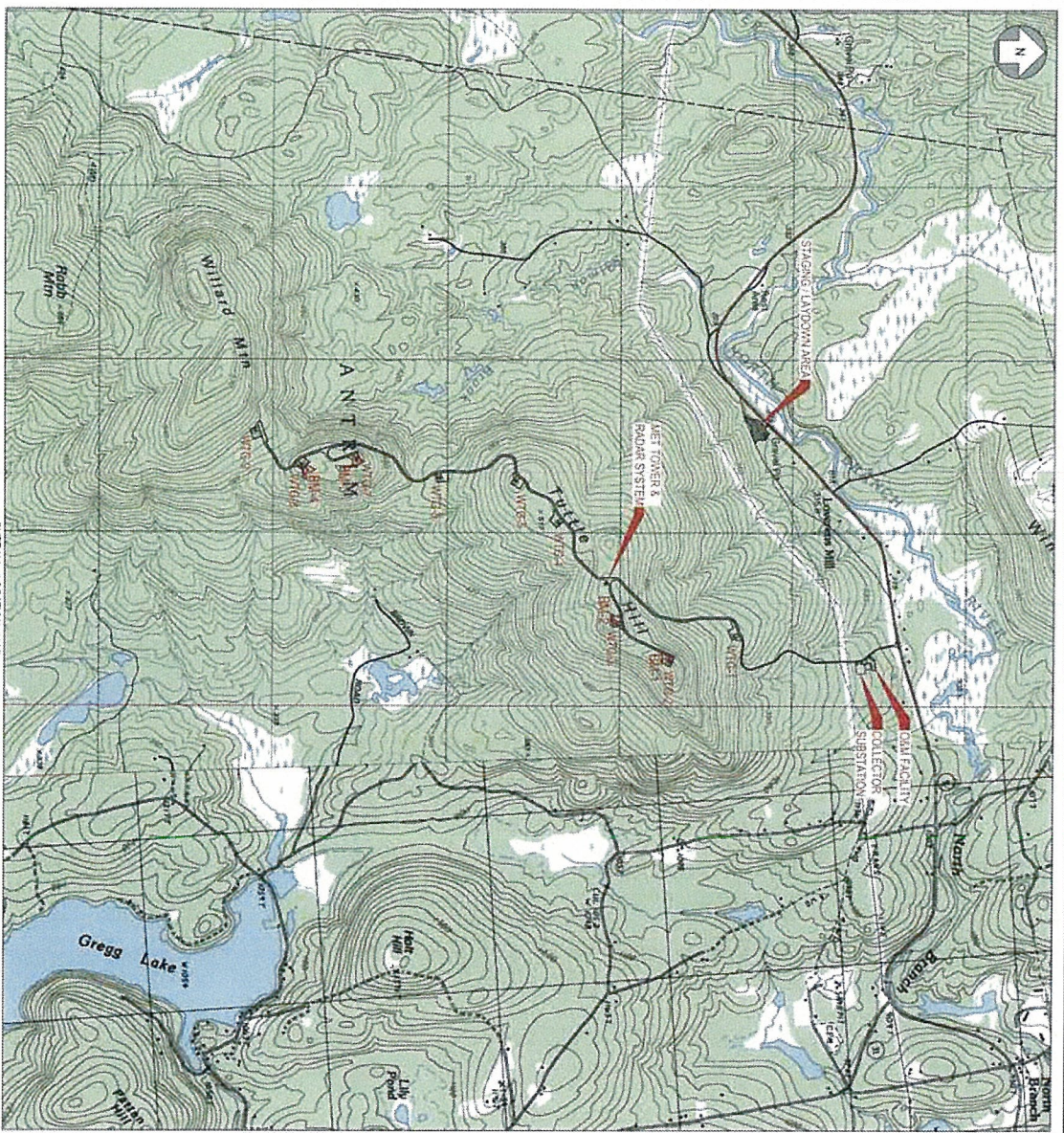
Attachments

Copy Furnished:

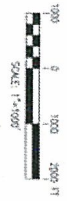
Elizabeth Muzzey, Director and State Historic Preservation Officer, NH Division of Historical Resources, 19 Pillsbury Street, Concord NH 03301-3570 [Elizabeth.Muzzey@dcr.nh.gov](mailto:Elizabeth.Muzzey@dcr.nh.gov)

Drew Kenworthy, Eolin Renewable Energy LLC, 155 Fleet Street, Portsmouth, New Hampshire  
03801 [dkenworthy@eolian-energy.com](mailto:dkenworthy@eolian-energy.com)

Jack Kenworthy, Eolin Renewable Energy LLC, 155 Fleet Street, Portsmouth, New Hampshire  
03801 [jkenworthy@eolian-energy.com](mailto:jkenworthy@eolian-energy.com)



OVERALL LOCATION MAP  
SCALE 1"=1000'



NOTES  
1. SEE DRAWING 0-1 FOR MAJOR VEGETATION, UTILITY & WATER DATA.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY	CHKD.	APP.	P.L.
1	ISSUED FOR CONSTRUCTION	4/9/13	JAM	JTB		
2	ISSUED FOR PERMITTING	5/17/13	JAM	JTB		



DATE: 4/9/13  
SCALE: AS SHOWN

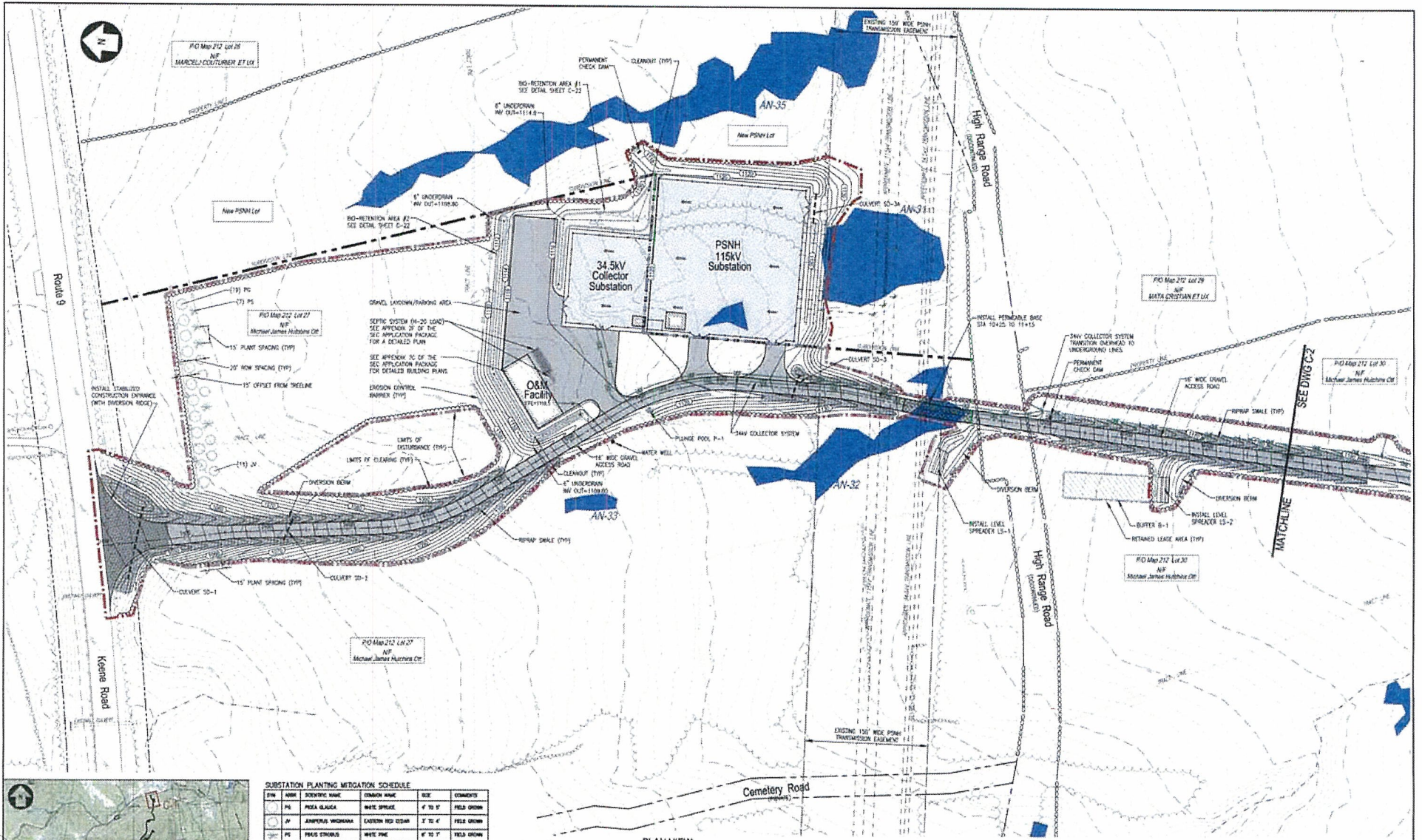
OVERALL LOCATION MAP  
& DRAWING INDEX  
ANTHROP WIND ENERGY, LLC  
ANTHROP WINDPARK  
NEW HAMPSHIRE  
REV. B  
DATE: 4/9/13  
SCALE: AS SHOWN

**DRAWING INDEX**

NO.	TITLE SHEET	DATE	BY	CHKD.	APP.	P.L.
0-1	PROJ. INTENT, LEGEND AND ASSOCIATIONS					
0-2	OVERALL LOCATION MAP & DRAWING INDEX					
0-3						
C-1	PLAN: TOWER SIZING / ANCHOR BOLT	5/14/10	JTB	JTB		
C-2	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-3	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-4	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-5	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-6	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-7	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-8	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-9	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-10	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-11	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-12	PLAN: MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-13	PROJ. MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-14	PROJ. MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-15	PROJ. MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-16	PROJ. MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-17	PROJ. MAIN ACCESS ROAD	5/14/10	JTB	JTB		
C-18	PLAN: SITE LAYOUT	5/14/10	JTB	JTB		
C-19	PLAN: SITE LAYOUT	5/14/10	JTB	JTB		
C-20	PLAN: SITE LAYOUT	5/14/10	JTB	JTB		
C-21	PLAN: SITE LAYOUT	5/14/10	JTB	JTB		
C-22	PLAN: SITE LAYOUT	5/14/10	JTB	JTB		
C-23	PLAN: SITE LAYOUT	5/14/10	JTB	JTB		
ME-1	ME: DEVELOPMENT WATERED PLAN	5/14/10	JTB	JTB		
ME-2	ME: DEVELOPMENT WATERED PLAN	5/14/10	JTB	JTB		
ME-3	ME: DEVELOPMENT WATERED PLAN	5/14/10	JTB	JTB		
SM-1	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-2	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-3	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-4	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-5	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-6	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-7	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-8	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-9	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-10	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-11	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-12	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		
SM-13	STORMWATER MANAGEMENT PLAN	5/14/10	JTB	JTB		

**PROJECT BENCHMARKS**

- △ BM-1 12.5' spot
- △ BM-2 12.5' spot
- △ BM-3 12.5' spot
- △ BM-4 12.5' spot



**SUBSTATION PLANTING MITIGATION SCHEDULE**

SPN	ARBK	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS
PS	PS	PIZZA GLAUCO	WHITE SPURGE	4' TO 5'	FIELD ORCHARD
AV	AV	ANEMONE WINDMILL	LADYBIRD PINK	1' TO 4'	FIELD ORCHARD
PS	PS	PRICKLY PEAR	WHITE PINE	6' TO 7'	FIELD ORCHARD

- NOTES:**
- SEE DRAWING S-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
  - SEE DRAWING S-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAINAGE TOOLS.
  - SEE DRAWING C-13 FOR CLEARLY, BUFFER, RETAINMENT SINGLE LEVEL SPREADER AND PLUNGE POOL SCHEDULES.

**NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	BY	CHK	APP.	P.L. NO.
3	ISSUED FOR PERMITTING	5/17/15	PMW	OTB	OTB	8100
4	ISSUED FOR CLIENT REVIEW	4/6/15	PMW	OTB	OTB	

**CLIENT APPROVAL**

ANTRIM WIND ENERGY, LLC

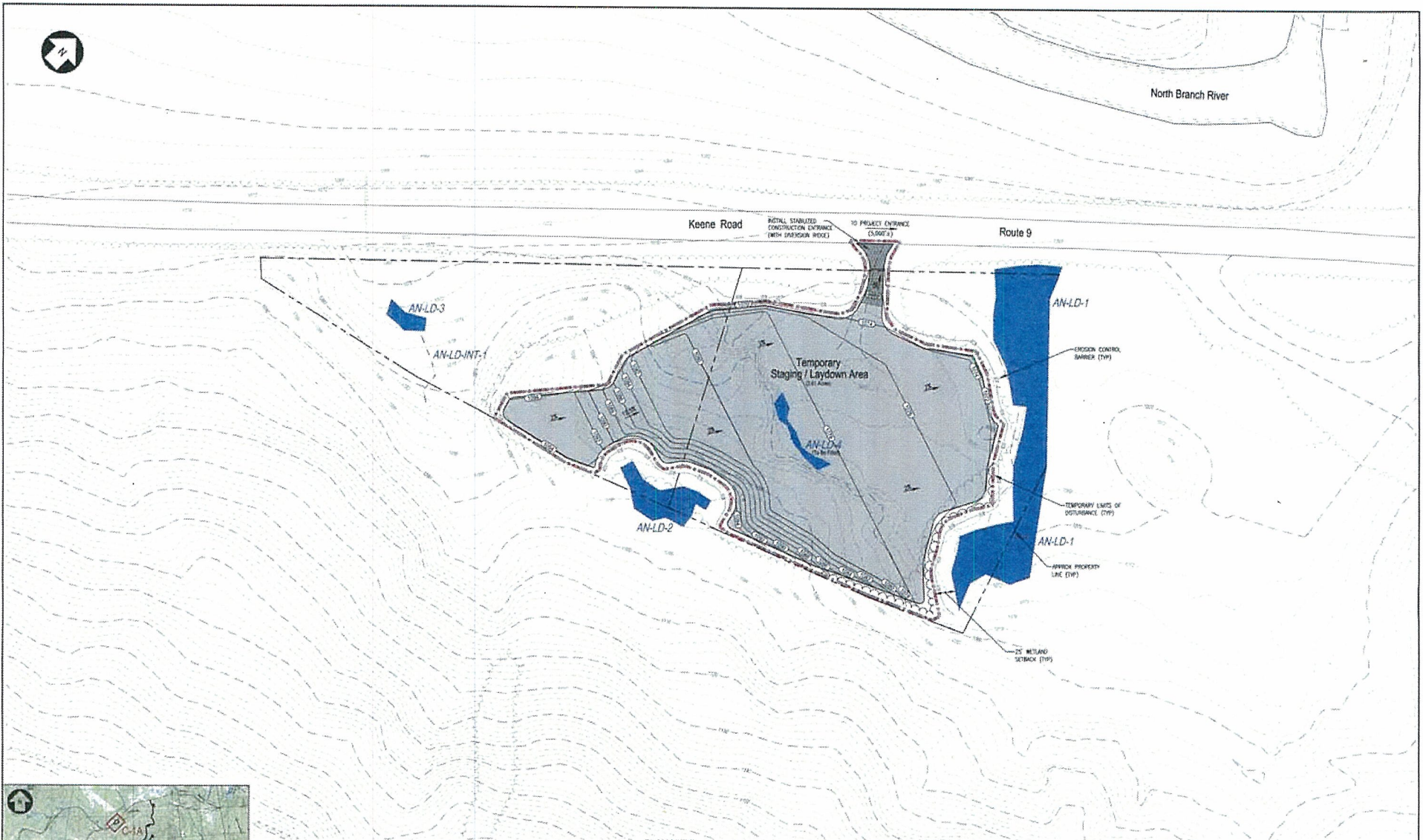
**REVIEWED**

CTRC

PLAN: MAIN ACCESS ROAD  
STA 0+00 TO 15+00  
ANTRIM WIND ENERGY, LLC  
ANTRIM WINDPARK

ANTRIM  
NEW HAMPSHIRE

SCALE: AS NOTED



**PLAN VIEW**  
SCALE: 1"=50'

- NOTES:**
1. SEE DRAWING C-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
  2. SEE DRAWING B-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING NOTES.
  3. SEE DRAWING C-25 FOR SLOPEWAY BUFFER, TREE BANK SWALE, LEGAL SPREADER AND PLUCKE POOL SCHEDULES.

**NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	BY	CHK	P.E. NO.	P.E. NO.
B	ISSUED FOR PERMITTING	3/1/15	PMW	OTB	OTB	8105
A	ISSUED FOR CLIENT REVIEW	12/18/14	PMW	OTB		



CLIENT APPROVAL	
DESIGNED BY	REVIEWED
DRAWN BY	DATE

PLAN: TEMPORARY STAGING/LAYDOWN AREA

ANTRIM WIND ENERGY, LLC  
ANTRIM WINDPARK  
ANTRIM NEW HAMPSHIRE

248 WESTERN HILLS  
MERRIM, NH 03003  
SCALE: AS NOTED DATE: 11-20-11

C-1A

REV. B



NO.	REVISION	DATE	BY	CHK	APP
1	ISSUED FOR PERMITTING	3/7/13	MM	DB	DB
2	ISSUED FOR CLIENT REVIEW	12/9/11	MM	DB	DB

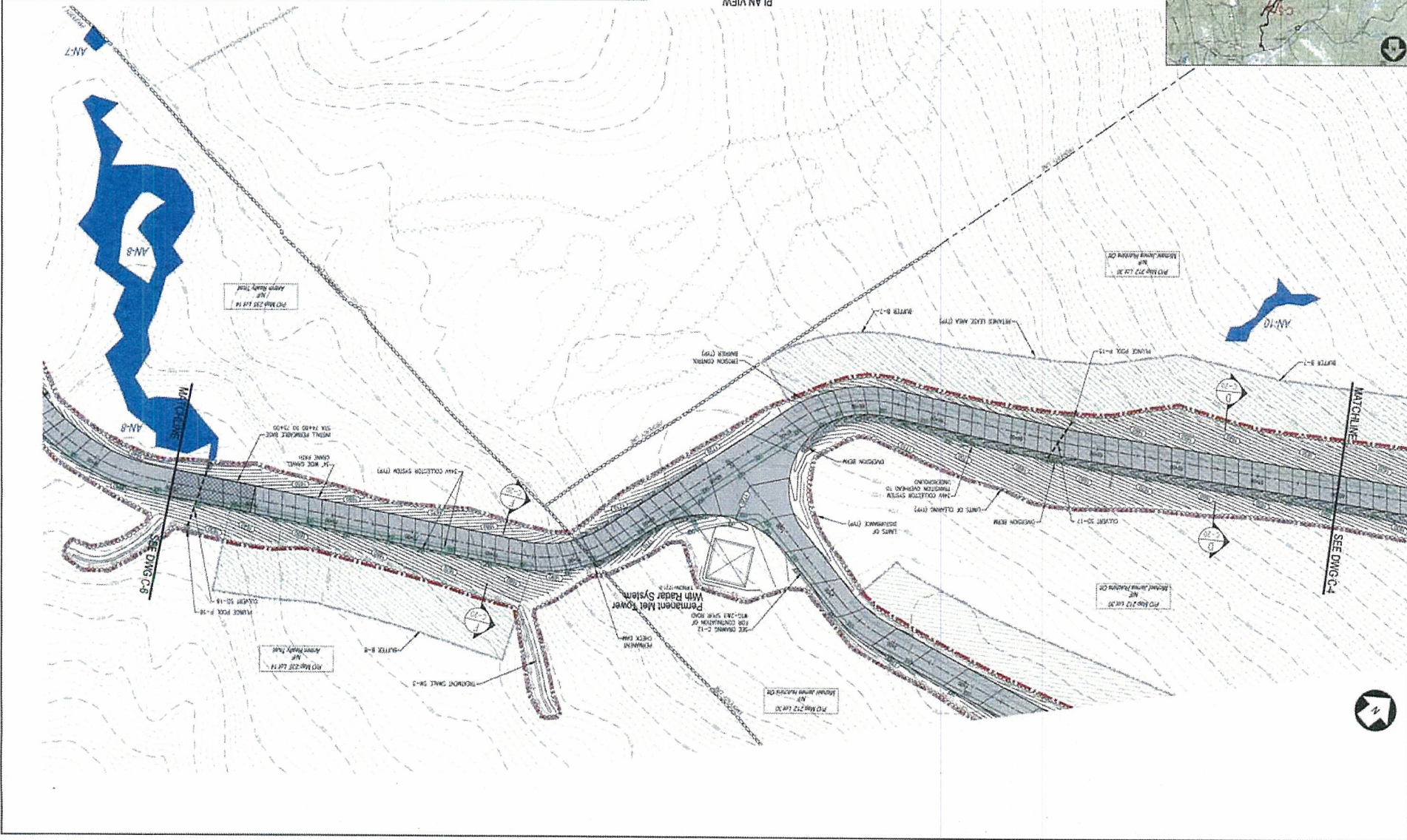
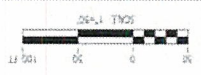
  

CLIENT	ARTRIA WIND ENERGY, LTD.
PROJECT	ARTRIA WIND ENERGY, LTD.
LOCATION	STATION 60+00 TO 75+00
SCALE	AS SHOWN
DATE	11-9-11
PROJECT NO.	0-5
REV	B

**NOT FOR CONSTRUCTION**

NOTES:  
 1. SEE DRAWING 0-1 FOR GENERAL PROJECT MAP AND GENERAL PROJECT LOCATION.  
 2. SEE DRAWING 0-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.  
 3. SEE DRAWING 0-3 FOR EXISTING WATER TREATMENT FACILITY LAYOUT.

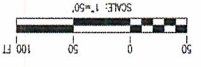
PLAN VIEW  
 SCALE: 1"=50'











- NOTES:
- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
  - SEE DRAWING G-3 FOR GENERAL PROJECT MAP AND GENERAL PROJECT BOUNDARY.
  - SEE DRAWING G-4 FOR CLIENT, BUFFER, TREATMENT SHALE LEVEL, SPILLER AND FLUME POOL SCHEDULES.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY	CHK	P.E.	NO.
1	ISSUED FOR PERMITTING	1/20/12	PMH	POT		
2	ISSUED FOR CLIENT REVIEW	12/19/11	PMH	POT		

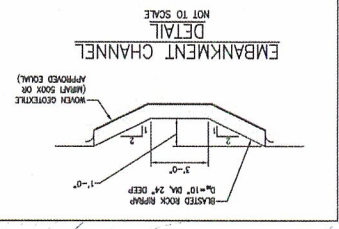
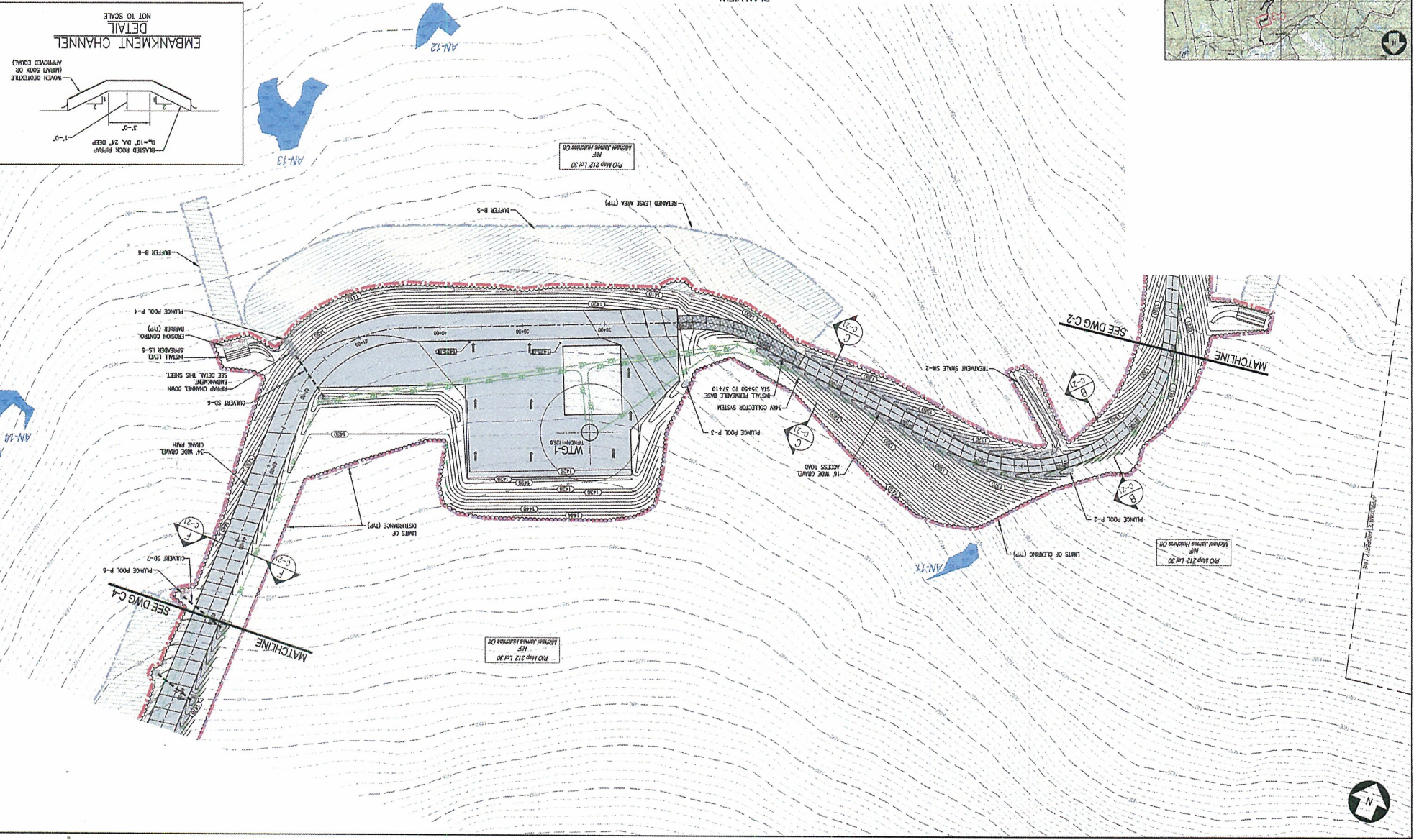


DATE	BY	CHK	P.E.	NO.

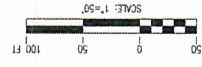
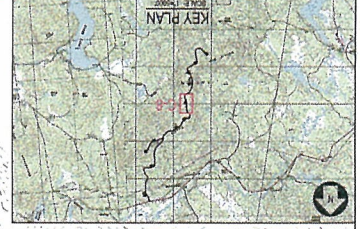
REVISION	DATE	BY	CHK	P.E.	NO.

SCALE AS NOTED  
 DATE: 11-8-11  
 PROJECT NO. 100317  
 210 WESTER AVENUE  
 ROLLINGWOOD, NH 03081  
**CTRC**  
 CONSULTANTS  
 ANTRIM WINDPARK  
 ANTRIM WIND ENERGY, LLC  
 STA 30+00 TO 45+00  
 PLAN: MAIN ACCESS ROAD  
 NEW HAMPSHIRE

PLAN VIEW







- NOTES:
- SEE DRAWING 0-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
  - SEE DRAWING 0-3 FOR ORIGINAL PROJECT MAP AND ORIGINAL PROJECT SHEDDER AND PLUMB POOL SCHEDULES.
  - SEE DRAWING C-24 FOR OILWET, BATTERY, TREATMENT SWALE LEVEL.

NOT FOR CONSTRUCTION

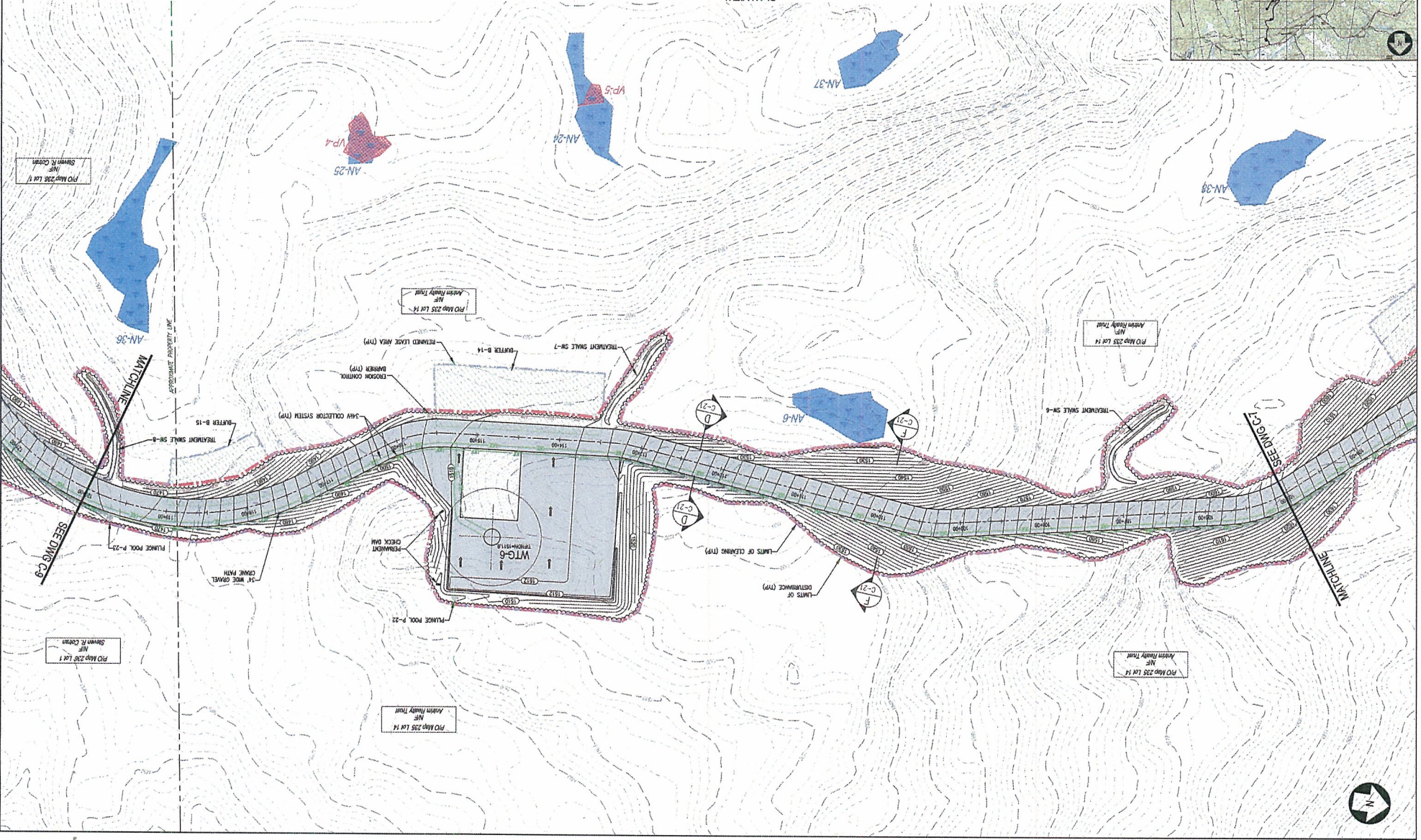
NO.	REVISION	DATE	BY	CHK	P.E.	NO.
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2	ISSUED FOR CLIENT REVIEW	12/19/11	PMM	PJT		1015

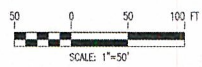
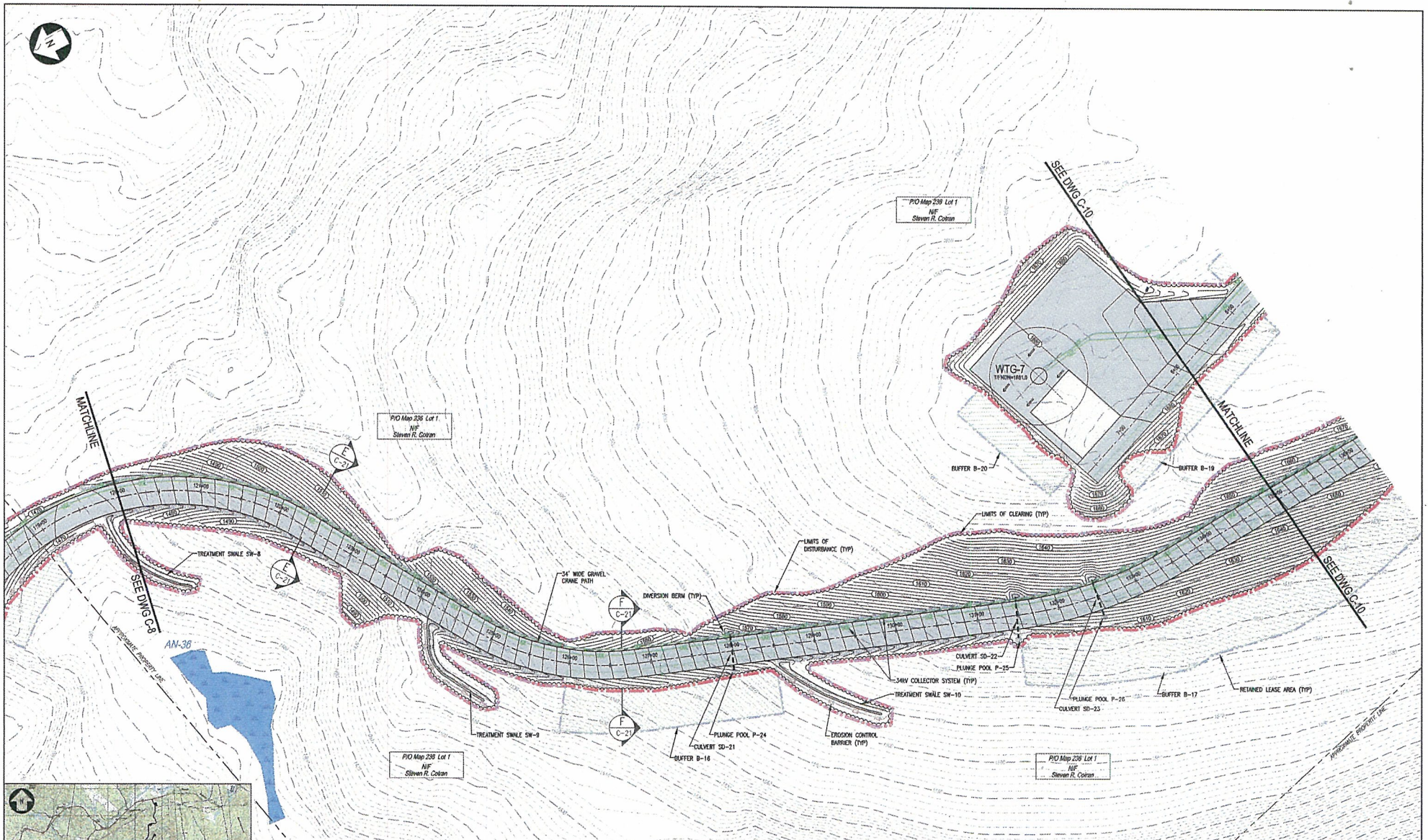


REVIEWED	DATE	BY	NO.

**CTRC**  
 24 WESTERN AVENUE  
 PROJECT NO. 10037  
 DATE: 11-8-11  
 SCALE: AS SHOWN

ANTRIM  
 ANTRIM WINDPARK  
 ANTRIM WIND ENERGY, LLC  
 STA 105+00 TO 120+00  
 PLIN: MAIN ACCESS ROAD  
 NEW HAMPSHIRE





**NOTES:**

1. SEE DRAWING B-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE DRAWING C-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.
3. SEE DRAWING C-24 FOR CULVERT, BUFFER, TREATMENT SWALE, LEV. SPREADER AND PLUNGE POOL SCHEDULES.

**PLAN VIEW**  
SCALE: 1"=50'

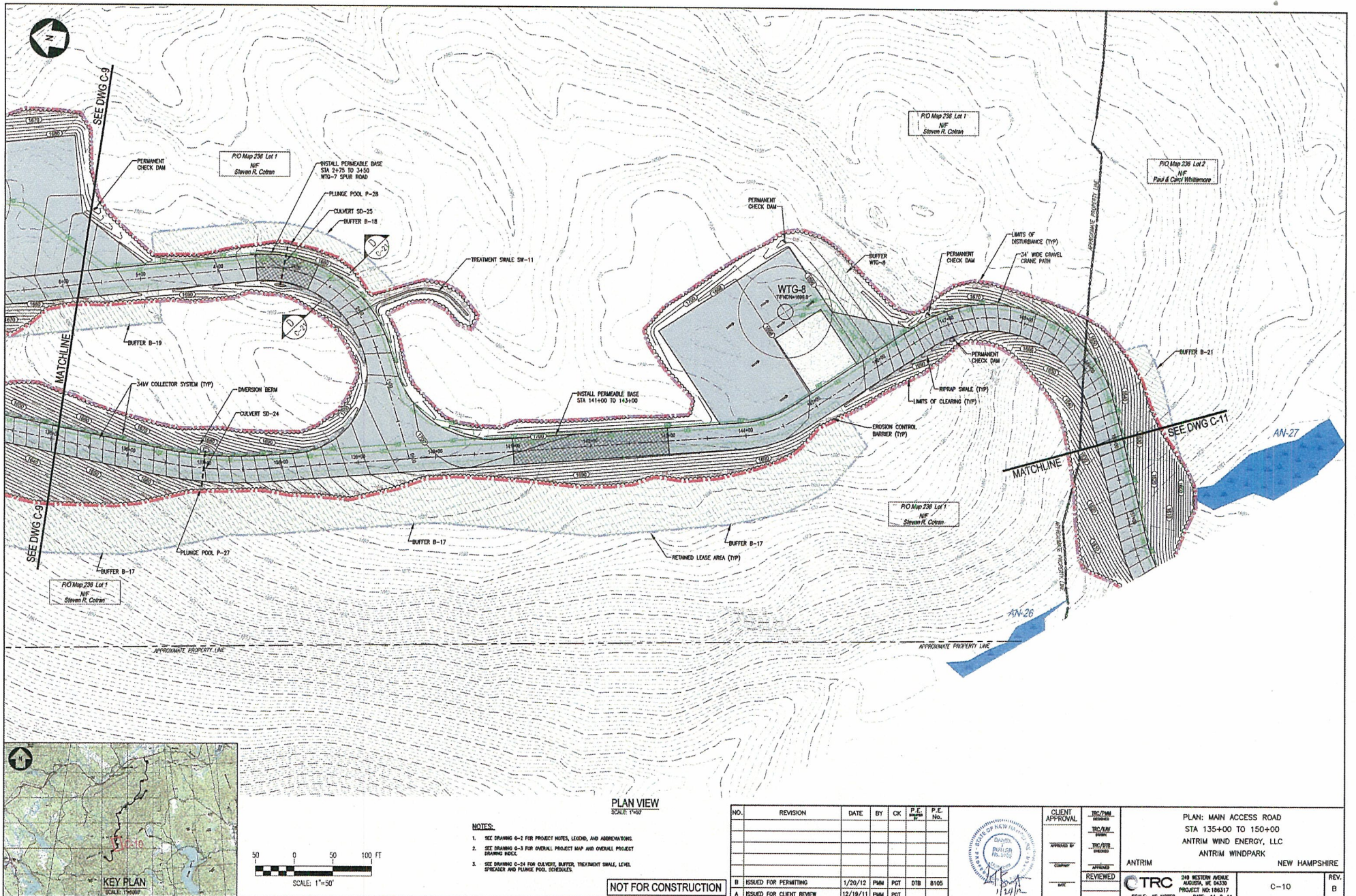
**NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	BY	CK	P.E. Initials	P.E. No.
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A	ISSUED FOR CLIENT REVIEW	12/19/11	PHM	POT		



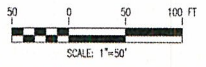
CLIENT APPROVAL	
APPROVED BY:	
DATE:	
REVIEWED:	

PLAN: MAIN ACCESS ROAD STA 120+00 TO 135+00 ANTRIM WIND ENERGY, LLC ANTRIM WINDPARK NEW HAMPSHIRE	
ANTRIM 	210 WETHER AVENUE ANDOVER, ME 04330 PROJECT NO: 186317 DATE: 11-8-11
SCALE: AS NOTED	REV. B



**PLAN VIEW**  
SCALE: 1"=50'

- NOTES:**
1. SEE DRAWING 0-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
  2. SEE DRAWING 0-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.
  3. SEE DRAWING 0-24 FOR CULVERT, BUFFER, TREATMENT SWALE, LEVEL SPREADER AND PLUNGE POOL SCHEDULES.



**NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	BY	CK	P.E.	P.E. No.
B	ISSUED FOR PERMITTING	1/20/12	PLM	POT	DTB	8105
A	ISSUED FOR CLIENT REVIEW	12/19/11	PLM	POT		



CLIENT APPROVAL	
APPROVED BY:	
DATE:	

<p>PLAN: MAIN ACCESS ROAD STA 135+00 TO 150+00 ANTRIM WIND ENERGY, LLC ANTRIM WINDPARK NEW HAMPSHIRE</p>	<p>ANTRIM</p>
<p><b>TRC</b></p>	<p>348 WESTERN AVENUE ANDOVER, MA 01830 PROJECT NO: 105317 SCALE: AS NOTED DATE: 11-8-11</p>
<p>C-10</p>	<p>REV. B</p>



PRO Map 236 Lot 1  
 REF  
 Samsir R. Eaton

PRO Map 236 Lot 2  
 REF  
 Paul & Carol Whitehouse

PRO Map 236 Lot 1  
 REF  
 Whitehouse Trust

PRO Map 236 Lot 1  
 REF  
 Whitehouse Trust

PRO Map 236 Lot 1  
 REF  
 Whitehouse Trust



**PLAN VIEW**  
 SCALE: 1"=50'

- NOTES:**
1. SEE DRAWING D-3 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
  2. SEE DRAWING D-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING TIE-OUT.
  3. SEE DRAWING C-23 FOR CULVERT, BUFFER, TREATMENT TRINCH, (TYP), SPREADER AND PUMPED POOL SPECIFICATIONS.

**NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	BY	CK	P.E.	P.S.	NO.
B	ISSUED FOR PERMITTING	5/1/15	PHM	DBR	OTR		0105
A	ISSUED FOR CLIENT REVIEW	12/19/14	PHM	DBR			



CLIENT APPROVAL	DATE
APPROVED BY	
REVIEWED	

PLAN: MAIN ACCESS ROAD  
 STA 150+00 TO 158+57  
 ANTRIM WIND ENERGY, LLC  
 ANTRIM WINDPARK  
 ANTRIM NEW HAMPSHIRE

240 WESTERN PARK  
 ANDOVER, MA 04830  
 PROJECT: 40-022978  
 DATE: 11-9-11

SCALE AS NOTED

C-11

REV	B
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