

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT BY RULE NOTIFICATION FORM**

(For use with DEP Regulation, Chapter 305)

PLEASE TYPE OR PRINT IN **BLACK INK ONLY**

Name of Applicant: (owner)	Canton Mountain Wind, LLC	Name of Agent:	Tetra Tech EC, Inc. Kathleen R. Miller		
Applicant Mailing Address:	549 South Street	Agent Phone # (include area code):	(207) 409-9738 Kathleen.miller@tetratech.com		
Town/City:	Quincy	PROJECT Information Name of Town/City:	Canton and Dixfield, Maine		
State and Zip code:	MA, 02169	Name of Wetland or Waterbody:	Ludden Brook and unnamed streams and vernal pools		
Daytime Phone # (include area code):	(617) 890-0600	Map #:	See attached	Lot #:	See attached
Detailed Directions to Site:	From Augusta take Western Ave, to Route 17 west; follow Route 17 west approximately 22 miles; take right onto Park Street for 0.8 miles; turn left on Depot Street 0.2 miles; turn right onto Route 17 west for 2.7 miles; then take left onto Route 140/Intervale Road for 6.7 miles; look for Canton Point Road on the right; approximatley 0.5 miles on right look for Ludden Lane. This will be the entrance to the Project.				
	UTM Northing: (if known)	396398	UTM Easting: (if known)	4929767	
Description of Project:	The Canton Mountain Wind Project is an 8 turbine, 22 megawatt , wind energy generation project proposed in Canton and Dixfield, Maine.				
Part of a larger project? (check one)→	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	After the Fact? (check one)→	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Check one→ This project <input checked="" type="checkbox"/> does (or) <input type="checkbox"/> does not involve work below mean low water (average low water).	

PERMIT BY RULE (PBR) SECTIONS: (Check at least one)

I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Rules, Chapter 305. I and my agents, if any, **have read** and will comply with all of the standards in the Sections checked below.

- | | | |
|---|---|---|
| <input type="checkbox"/> Sec. (2) Act. Adj. to Protected Natural Res. | <input checked="" type="checkbox"/> Sec.(10) Stream Crossing | <input type="checkbox"/> Sec. (17) Transfers/Permit Extension |
| <input type="checkbox"/> Sec. (3) Intake Pipes | <input type="checkbox"/> Sec. (11) State Transportation Facil. | <input type="checkbox"/> Sec. (18) Maintenance Dredging |
| <input type="checkbox"/> Sec. (4) Replacement of Structures | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas | <input checked="" type="checkbox"/> Sec. (19) Activities in/on/over significant vernal pool habitat |
| <input type="checkbox"/> Sec. (5) REPEALED | <input type="checkbox"/> Sec. (13) F&W Creation/Enhance/Water Quality Improvement | <input type="checkbox"/> Sec. (20) Activities in existing dev. areas located in/on/over high or moderate value inland waterfowl & wading bird habitat or shorebird nesting, feeding & staging areas |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Vegetation | <input type="checkbox"/> Sec. (14) REPEALED | |
| <input type="checkbox"/> Sec. (7) Outfall Pipes | <input type="checkbox"/> Sec. (15) Public Boat Ramps | |
| <input type="checkbox"/> Sec. (8) Shoreline stabilization | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects | |
| <input type="checkbox"/> Sec. (9) Utility Crossing | | |

I have attached the following required submittals. **NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS:**

NECESSARY ATTACHMENTS:

- Attach** a check for \$65 made payable to: "Treasurer, State of Maine".
- Attach** a U.S.G.S. topo map or Maine Atlas & Gazetteer map with the project site clearly marked.
- Attach Proof of Legal Name.** If applicant is not an individual or municipality, provide a copy of Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>)
- Attach photos of the proposed site where activity will take place as outlined in PBR Sections checked above.**
- Attach** all other required submissions as outlined in the PBR Sections checked above.

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules. I also understand that **this permit is not valid until approved by the Department or 14 days after receipt by the Department, whichever is less.**

By signing this Notification Form, I represent that the project meets all applicability requirements and standards in the rule and that the applicant has sufficient title, right, or interest in the property where the activity takes place.

Signature of Agent or Applicant:	Andy Novey, Project Manager 	Date:	December 30, 2011
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Keep a copy as a record of permit. Send the form with attachments via certified mail or hand deliver to the Maine Dept. of Environmental Protection at the appropriate regional office listed below. The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. **Work carried out in violation of any standard is subject to enforcement action.**

AUGUSTA DEP 17 STATE HOUSE STATION AUGUSTA, ME 04333-0017 (207)287-3901	PORTLAND DEP 312 CANCO ROAD PORTLAND, ME 04103 (207)822-6300	BANGOR DEP 106 HOGAN ROAD BANGOR, ME 04401 (207)941-4570	PRESQUE ISLE DEP 1235 CENTRAL DRIVE PRESQUE ISLE, ME 04769 (207)764-0477
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OFFICE USE ONLY	Ck.#	Date	Staff	Staff	After Photos
PBR #	FP		Acc. Date	Def. Date	



**Canton Mountain Wind, LLC
Canton Mountain Wind Project**

**Permit by Rule Notification Form
Attachments**

- | | |
|---------------------|---|
| Attachment 1 | Description of Permit by Rule Activities |
| Attachment 2 | Resource Crossing Plans |
| Attachment 3 | Canton Mountain Wind, LLC Certificate of Good Standing |
| Attachment 4 | Stream and Significant Vernal Pool Photo Documentation |
| Attachment 5 | Stream Crossing Engineering Details |

Attachment 1

Description of Permit-by-Rule Activities

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1.0 PROJECT DESCRIPTION

The Canton Mountain Wind Project (Project) is a 22 megawatt (MW) wind energy generation project located in the municipalities of Canton and Dixfield, Oxford County, Maine (see Figure 1-1). The Project is being proposed by Canton Mountain Wind, LLC (CMW) and has been developed by CMW's affiliate, Patriot Renewables, LLC (Patriot), a wind development company based in Quincy, Massachusetts. The project site is secured by lease and easement agreements with landowners.

The Project occupies 2,978 acres of land and includes the upgrading of 7,175 linear feet of an existing road known as Ludden Lane, the upgrading of 8,600 feet of an existing unnamed private gravel logging road that begins at the end of Ludden Lane, and construction of a 3,425-linear-foot access road extending from the end of the existing logging road to the ridgeline (see Figure 1-1). Access along the ridgeline will be via an approximately 7,175-linear-foot ridgeline road that will connect the wind turbine tower foundations. Along the ridgeline road, eight wind turbines and associated electrical collection infrastructure will be installed.

Power from the turbines will be collected in a 34.5-kilovolt (kV) underground electric collector line system buried within the ridgeline road work limits. The underground collector line will transition to an aboveground transmission line on the access road approximately 3,425 feet down from the new ridgeline access road. From there it will continue aboveground, mounted on wood poles, for approximately 8,405 feet roadside along the upgraded logging road until it reaches the transmission line corridor for the Saddleback Ridge Wind Project (Maine Department of Environmental Protection [Maine DEP] license L-25137-24-A-N/L-25137-TG-B-N). Poles will be placed within the existing transmission corridor and travel 5,800 feet to the Ludden Lane Substation. For approximately 1,410 feet of this corridor, lines from both projects will occupy one set of poles; there will be two sets of poles in the rest of the corridor. Placing the transmission line within the existing Saddleback Ridge Wind corridor will result in no additional right-of-way clearing or permanent wetland impacts. The Project will interconnect with the regional grid at the Ludden Lane Substation built for the Saddleback Ridge Wind Project.

The Project also includes an approximately 3,500-square-foot operations and maintenance (O&M) building located along Ludden Lane on a parcel of land that will be leased from CMW's affiliate Saddleback Ridge Wind Farm, LLC. The O&M building is designed to accommodate up to six employees and will include an approximately 7,500-square-foot parking lot. An overhead distribution line and fiber-optic cabling mounted on wooden poles will connect the O&M building to the turbines.

The Project will consist of seven General Electric (GE) 2.75-103 and one GE 2.75-100 wind turbines with a nameplate capacity of 2.75 MW each. The GE 2.75-103 turbines will have 103-meter-diameter (approximately 338 feet) rotors mounted on 85-meter (approximately 279 feet) tubular steel towers, resulting in a total height of 136.5 meters (approximately 448 feet) from the ground to the tip of a fully extended blade. The GE 2.75-100 turbine will have a 100-meter-diameter (approximately 328 feet) rotor mounted on an 85-meter (approximately 279 feet) tubular steel tower, resulting in a total height of 135 meters (approximately 443 feet) from the ground to the tip of a fully extended blade. Figures 1-2a and 1-2b show the configuration and dimensions for both of these turbine models. As an alternative to the GE turbines described above, the Project may also use eight Gamesa G90 turbines in the same locations. The Gamesa G90 turbines have 90-meter (approximately 295 feet) rotors mounted on 78-meter (approximately 256 feet) towers (Figure 1-2c). The Gamesa turbines are shorter and have the same or

lower sound output as the GE turbines; therefore, all studies will be done using the larger GE 2.75-103 turbine to depict the worst-case scenario.

Current land use in the project area consists of undeveloped, privately owned forest land and commercial forestry operations in the vicinity of the proposed access road, ridgeline, and transmission line. The topography in the project area ranges from relatively flat, at the lower elevations and in the vicinity of the O&M building, to moderate and steep side slopes that climb from roughly 1,000 feet to 1,600 feet above sea level. The ridgeline between the northernmost and southernmost proposed turbines ranges in elevation from 1,324 feet to 1,538 feet above sea level.

Preliminary wetlands and waterbody field surveys, along with “in-season” (i.e., amphibian breeding season) vernal pool surveys, were performed during the spring of 2010 to facilitate the avoidance and minimization of impacts during the facility design. Wetlands and waterbody surveys, Roaring Brook mayfly surveys, and northern spring salamander surveys of the Project were conducted during the summer and fall of 2010. “In-season” vernal pool surveys and additional wetland and waterbody field surveys were also conducted in spring 2011 to address shifts in the road alignments and possible alternate access routes resulting from resource impact avoidance and minimization efforts. Additional reports and surveys include an analysis of historic architecture, Euro-American and Pre-Contact archaeology, visual impact analysis, shadow flicker analysis, sound analysis, high intensity soil surveys, and soils evaluations.

After modifying the project design to avoid and minimize impacts, the final facility design and layout for the turbines and associated roads and transmission line results in only 3,039 square feet of permanent wetland fill, 4,286 square feet of temporary alterations during construction, and 2,258 square feet of conversion of forested wetland to scrub-shrub wetland to support operations of the roadside transmission line right-of-way. Existing roads are used to the greatest extent practicable and most of the impacts associated with the Project are from the temporary expansion of Ludden Lane and an existing unnamed gravel road. There is one new crossing of a stream regulated by the Maine DEP and the U.S. Army Corps of Engineers on the new access road to the ridgeline; this new crossing will be performed using an open bottom arch culvert built in accordance with Maine DEP’s permit-by-rule standards.

1.1 Proposed Permit-By-Rule 10 Activities

CMW proposes to perform 11 stream crossings in compliance with *Maine Department of Environmental Protection’s Natural Resources Protection Act, Permit by Rule Standards, Chapter 305, Section 10, for Crossings (bridges, culverts, and fords)*. The locations of these 11 stream crossings are shown on Figure 1-1 and detailed crossing plans are provided in Attachment 2; Attachment 3 includes CMW’s Proof of Legal Name from the Maine Secretary of State; Attachment 4 provides photographic documentation; and Attachment 5 includes engineering crossing details.

The following table provides a list of the proposed crossings to be performed using PBR 10 Standards including crossing type (new crossing, bridge or culvert replacement); the stream classification (intermittent or perennial); the town the crossing is in; and the associated engineering drawing (see Attachment 2).

Waterbody/ Project Segment	Crossing Type	Maine DEP Stream Type	Town See Figure 1-1	NRPA Drawing in Attachment 2
Access Road				
AS9	replace existing 18-inch CMP culvert	Intermittent	Canton	NRPA-05
AS6-1	replace existing timber/steel bridge	Perennial	Dixfield	NRPA-07
AS6-2	replace existing timber/steel bridge	Perennial	Dixfield	NRPA-09
AS19-1	replace existing 18-inch CMP culvert	Intermittent	Dixfield	NRPA-10
AS19-2	replace existing 24-inch HDPE culvert	Intermittent	Dixfield	NRPA-11
AS29-1	replace existing 36-inch CMP	Perennial	Dixfield	NRPA-15
AS35	replace existing 12-inch CMP culvert	Intermittent	Dixfield	NRPA-16
AS29-2	replace existing timber/steel bridge	Perennial	Dixfield	NRPA-17
AS48	replace existing 30-inch CMP	Intermittent	Canton	NRPA-18
AS58	replace existing 24-inch CMP	Perennial	Canton	NRPA-19
AS49	new intermittent stream crossing	Intermittent	Canton	NRPA-20

Streams AS6, AS29, and AS58 (five crossings total) are of Maine DEP regulated perennial streams. The crossing of AS9 also involves impacts to Maine DEP regulated wetlands of special significance (see NRPA-05, Attachment 2). CMW plans to replace three existing bridges (NRPA-7, NRPA-9, and NRPA-17) with new bridges and replace four existing culverts (NRPA-05, NRPA-10, NRPA-15, NRPA-16) with new open bottom culvert/bridges as depicted in the engineering detail (NRPA-30, Attachment 2); the remaining three crossings will be in-kind culvert replacements (NRPA-11, NRPA-18, and NRPA-19). One new crossing (AS49) associated with the new access road to the ridgeline will be crossed with an open bottom culvert/bridge (NRPA-20, Attachment 2). CMW proposes to perform all of these stream crossings in compliance with Maine DEP Chapter 305, Permit-by-Rule 10 Standards for Crossings.

1.2 Proposed Permit-By-Rule 19 Activities

CMW also proposes to perform vegetation clearing activities and construction of a portion of the ridgeline access road within the 250-foot buffer of a potentially significant vernal pool (9PSVP) in compliance with *Maine Department of Environmental Protection's Natural Resources Protection Act, Permit by Rule Standards, Chapter 305, Section 19, for Activities In, On or Over Significant Vernal Pool Habitat*.

This PSVP was treated as a SVP during the design of the Project. No Project related activities are proposed within 100 feet of the spring high water line and a minimum of 75 percent of the adjacent critical terrestrial habitat will be left intact and un-fragmented following construction. The activities that will occur within the 250-foot critical terrestrial habitat (CTH) surrounding the vernal pool includes clearing of vegetation and construction of an access road (see NRPA-21, Attachment 2).

For the purpose of evaluating compliance with PBR 19 Standards, Tetra Tech conservatively assumed that all habitat located east of the western tree line along the proposed ridgeline road would be unavailable to pool breeding amphibians. As shown on Plan NRPA-21 this assumption results in conversion of 24 percent of the CTH surrounding pool 9PSVP. This would result in 76 percent of the CTH remaining as unfragmented habitat following construction.

A second significant vernal pool (SVP) is located east of the proposed electric transmission line (see NRPA-29, Attachment 2). This SVP has already been reviewed by the Maine DIFW and confirmed to be a SVV. CMW has again maintained a minimum 100 foot setback from the edge of this SVP and will be able to construction the transmission line that traverses within 250 feet of the spring high water line of this pool retaining greater than 75 percent of the CTH habitat intact following construction.

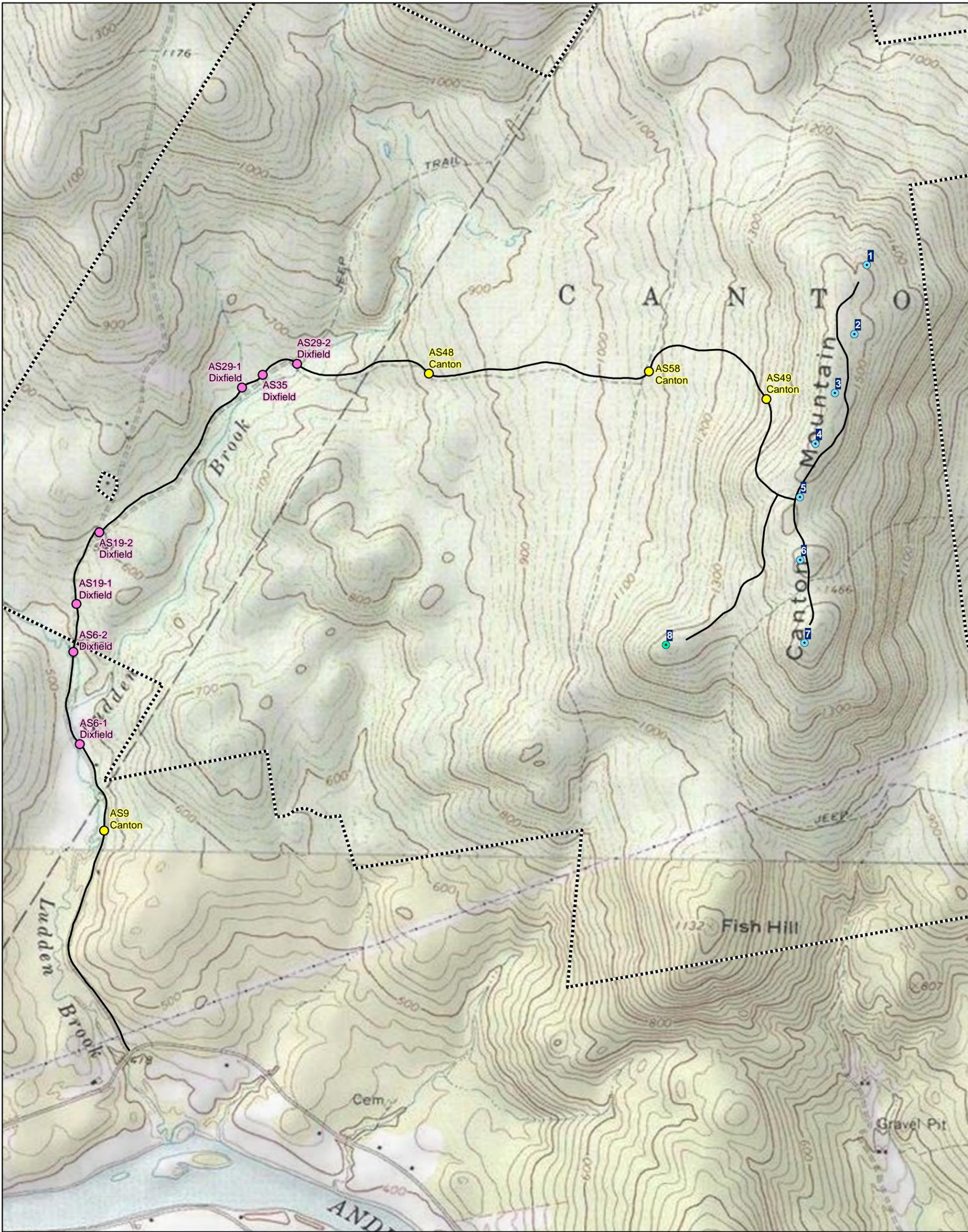
In addition, CMW will comply with the following Chapter 305 Standards to prevent erosion of soil or fill material from disturbed areas:

1. Staked hay bales or silt fence will be properly installed at the edge of disturbed areas between the activity and the vernal pool depression before the vegetation removal begins for construction of the transmission line.
2. Hay bales or silt fence barriers will be maintained until the disturbed area is permanently stabilized.
3. Within seven calendar days following the completion of any soil disturbance, and prior to any storm event, mulch will be spread on exposed soils.
4. All disturbed soils will be permanently stabilized.
5. Within 30 days of final stabilization of the area with 750 feet of the vernal pool depression, all silt fence will be removed.

1.3 Construction Schedule

The proposed schedule for construction of the Project is presented below.

Project Phase	Start Date	End Date
Mobilization and Geotechnical Surveys	May 2, 2013	May 13, 2013
Clearing and Grubbing	May 16, 2013	June 10, 2013
Road and Site Work	May 30, 2013	August 5, 2013
Construction of Turbine Foundations	July 18, 2013	August 26, 2013
Transmission Line	July 18, 2013	October 1, 2013
Turbine Delivery and Site Placement	August 8, 2013	September 2, 2013
Turbine Erection	August 8, 2013	October 15, 2013
Ridgeline Electric Collection System	August 15, 2013	October 5, 2013
Testing and Commissioning	October 17, 2013	November 4, 2013
Start of Commercial Operation	November 11, 2013	N/A



- Legend**
- Stream Crossing Location**
 - Canton
 - Dixfield
 - Turbine Location (10/21/2011)**
 - GE 2.75-103
 - GE 2.75-100
 - Access Road
 - Project Area

0 0.25 0.5 Miles



Figure 1-1
Stream Crossing Locations
 Canton Mountain Wind Project
 Canton and Dixfield, Maine

December 2011

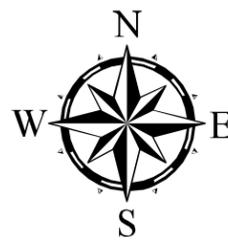
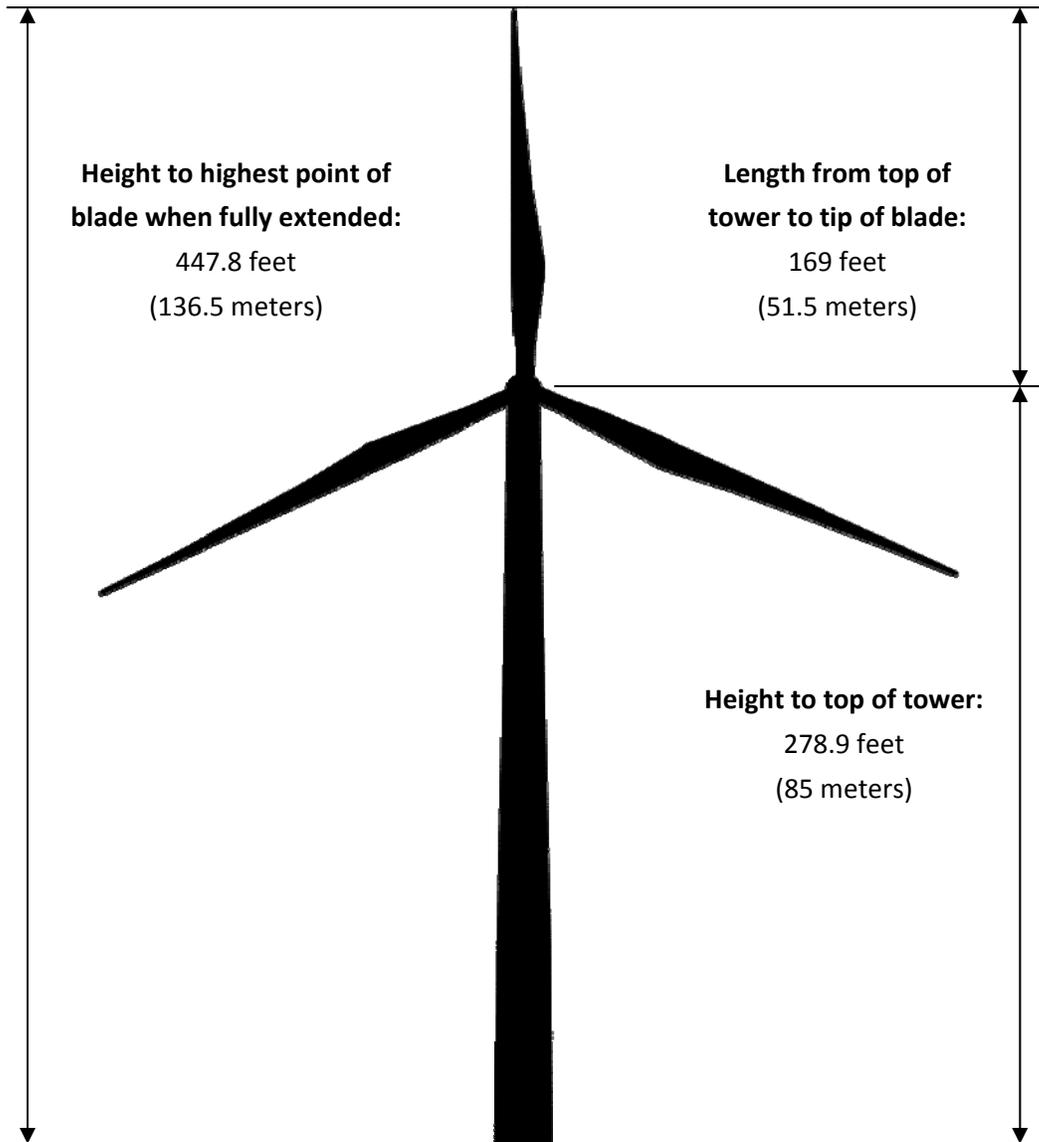
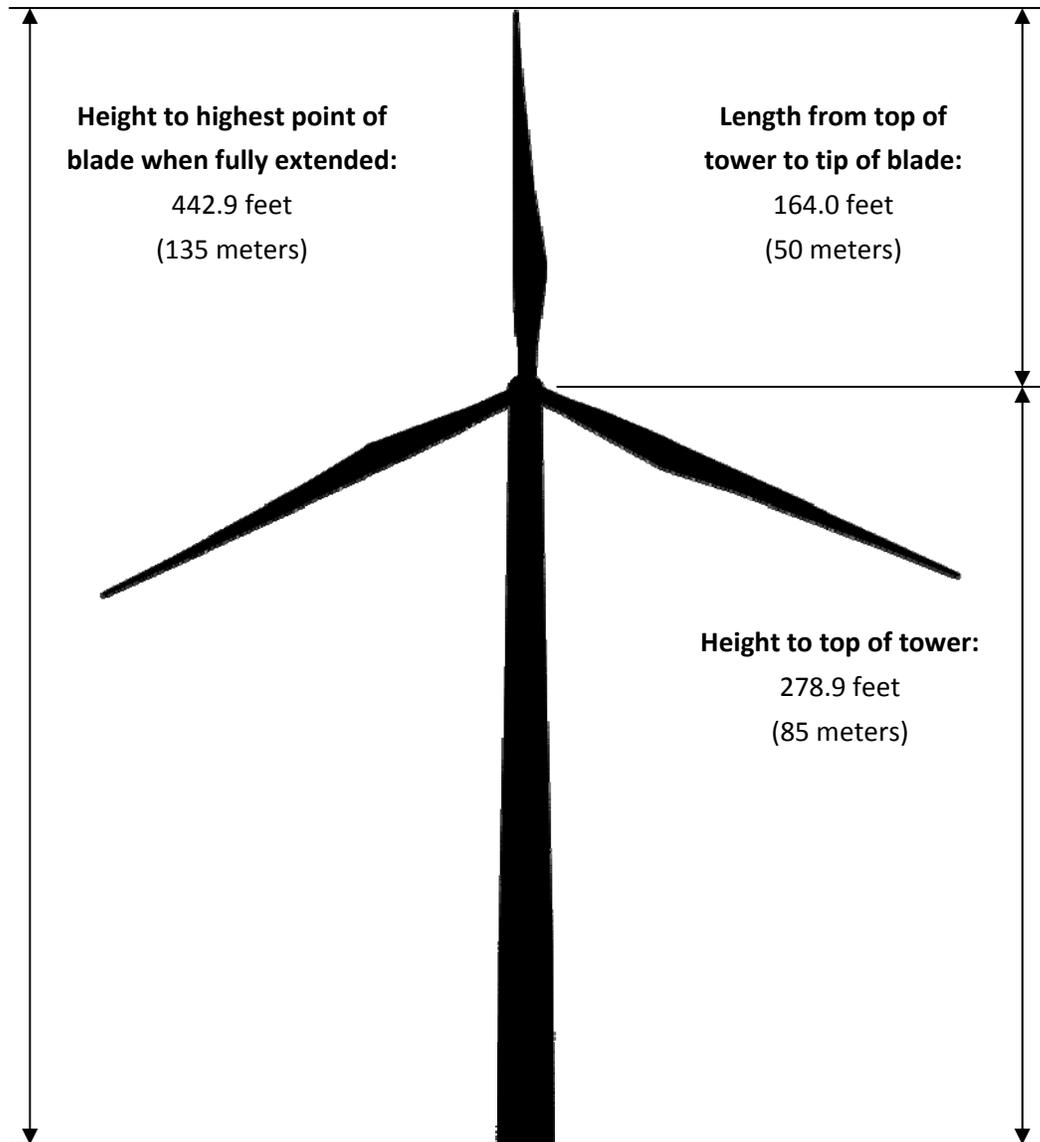


Figure 1-2a: Dimensions of a GE 2.75-103 Wind Turbine



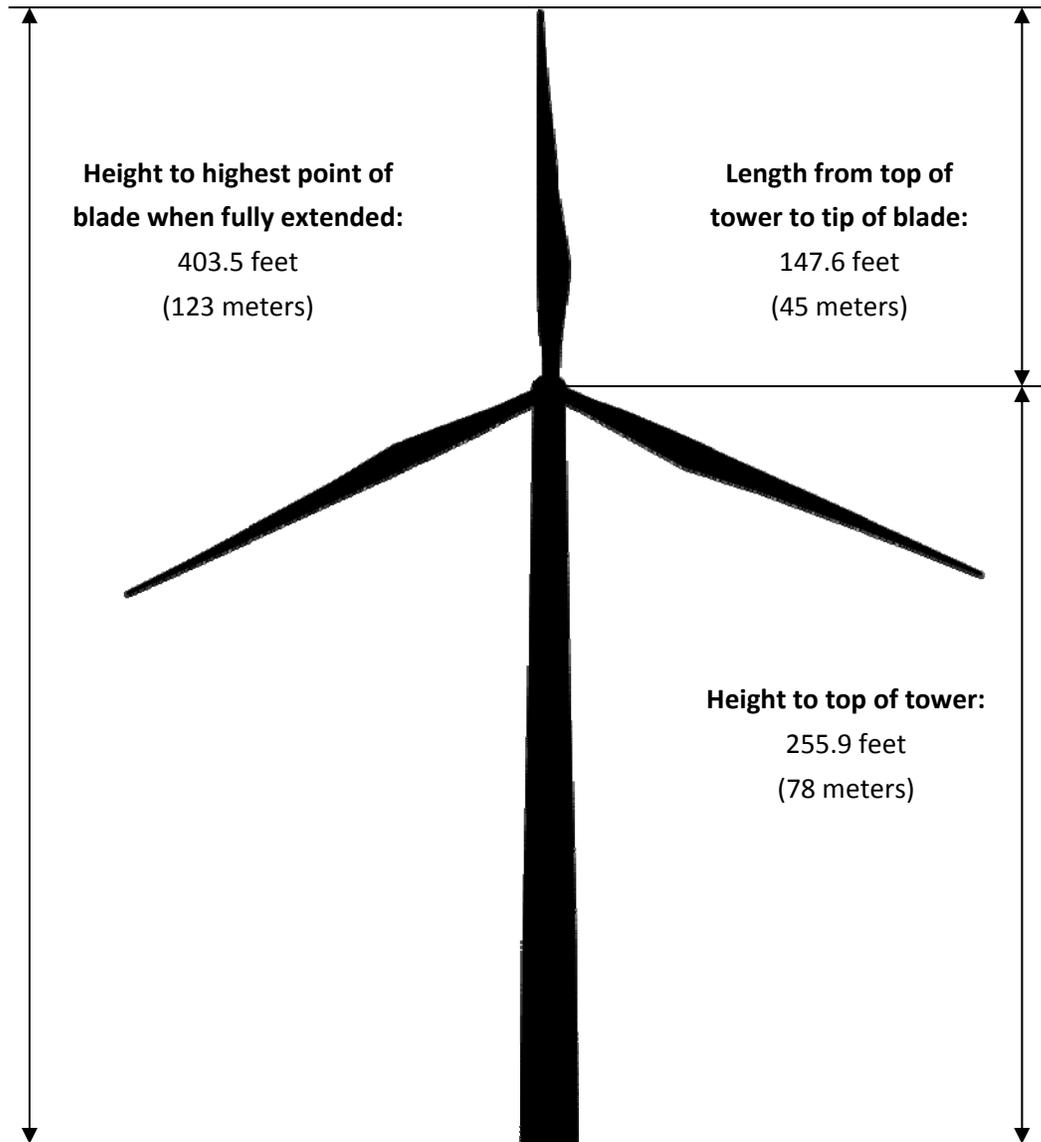
Not to Scale

Figure 1-2b: Dimensions of a GE 2.75-100 Wind Turbine



Not to Scale

Figure 1-2c: Dimensions of a Gamesa G90 Wind Turbine



Not to Scale



Attachment 2 Resource Crossing Plans

DWG NUMBER	TITLE	SHEET NUMBER
NRPA-01	SHEET INDEX	1
NRPA-02	LEGEND AND GENERAL NOTES	2
NRPA-03	WETLAND AW5-1	3
NRPA-04	WETLAND AW8	4
NRPA-05	WETLAND AW5-2 AND STREAM AS9	5
NRPA-06	WETLAND AW5-3	6
NRPA-07	STREAM AS6-1	7
NRPA-08	WETLAND AW12	8
NRPA-09	STREAM AS6-2	9
NRPA-10	STREAM AS19-1	10
NRPA-11	STREAM AS19-2	11
NRPA-12	WETLAND AW25 AND AW27	12
NRPA-13	WETLAND AW27 AND AW30	13
NRPA-14	WETLAND AW32	14
NRPA-15	STREAM AS29-1	15
NRPA-16	WETLAND AW36 AND STREAM AS35	16
NRPA-17	STREAM AS29-2	17
NRPA-18	STREAM AS48	18
NRPA-19	STREAM AS58	19
NRPA-20	STREAM AS49	20
NRPA-21	VERNAL POOL 9PSVP	21
NRPA-22	WETLAND RW77	22
NRPA-23	WETLAND TW23	23
NRPA-24	WETLAND TW20	24
NRPA-25	WETLAND TW16 AND STREAM TS18	25
NRPA-26	WETLAND TW12	26
NRPA-27	WETLAND TW12	27
NRPA-28	WETLAND TW10	28
NRPA-29	VERNAL POOL 1SVP	29
NRPA-30	CULVERT/BRIGDE STRUCTURE DETAIL	30

CANTON MOUNTAIN WIND PROJECT VICINITY MAP



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
2. ELEVATIONS ARE REFERENCED TO NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. EXISTING TOPOGRAPHIC AND PLANNIMETRIC SURVEY INFORMATION WAS THE RESULT OF AERIAL TOPOGRAPHIC PHOTOGRAPHY AND AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
4. SOIL MAPPING WAS COMPLETED BY ALBERT FRICK ASSOCIATES, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) WAS COMPLETED BY TETRA TECH, INC.
6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

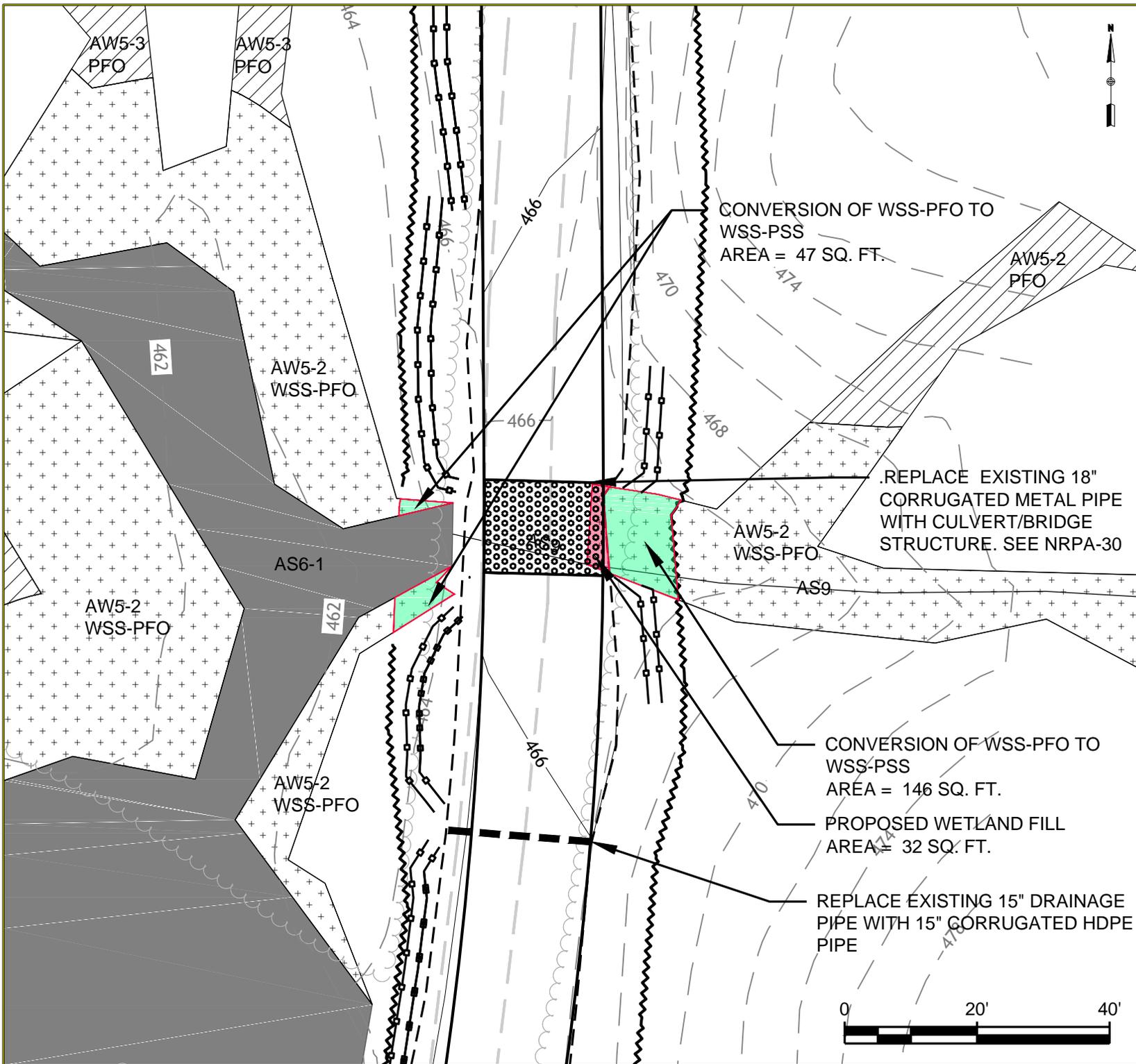
Drawing Title:

**CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS
SHEET INDEX**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	

Sheet Number:
1 of 30

Dwg No.: **NRPA-01**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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No.	Revision/Issue	Date

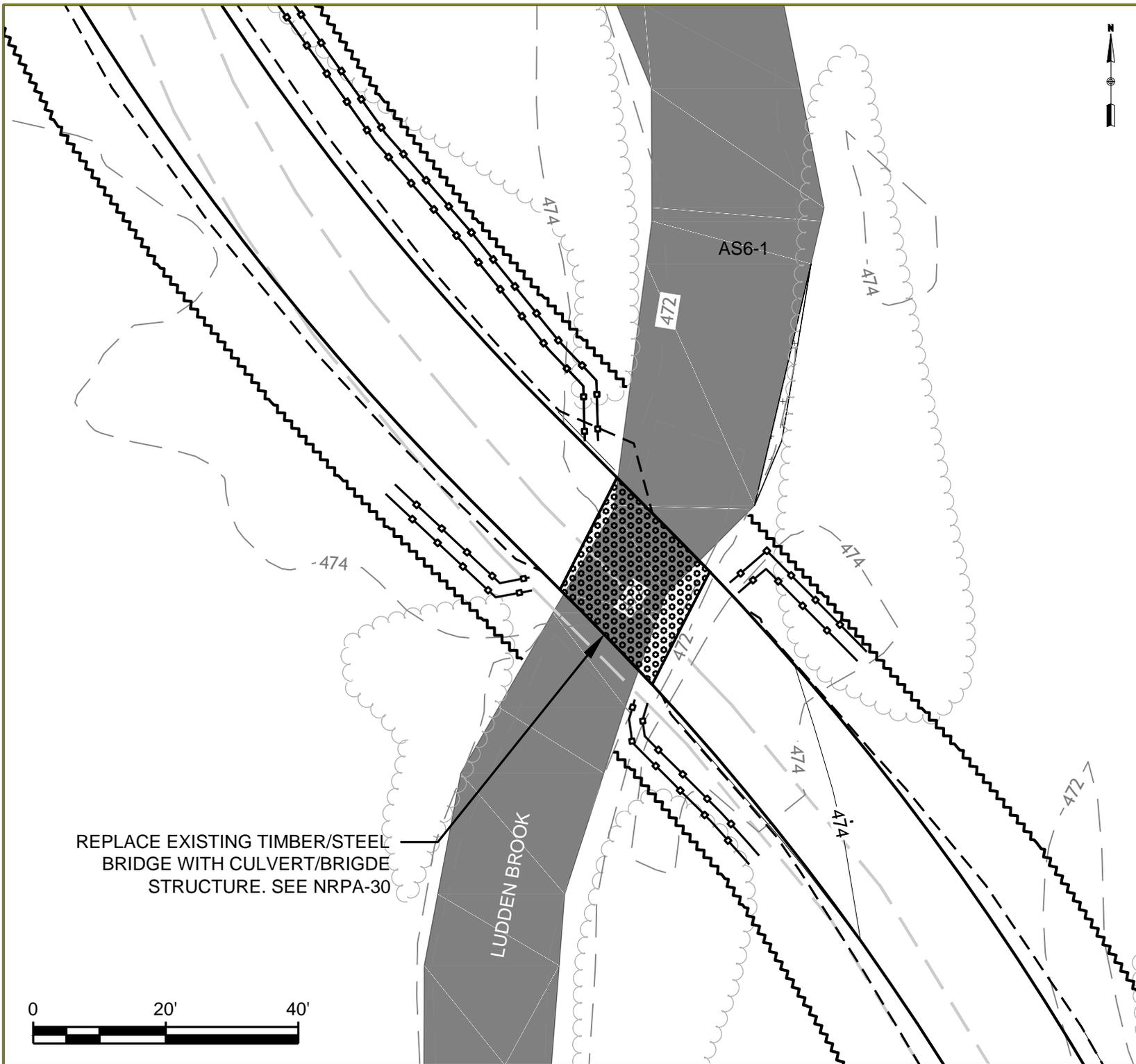
Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 WETLAND AW5-2
 AND
 STREAM AS9**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	

Sheet Number:
5 of 30

Dwg No.: **NRPA-05**





GENERAL NOTES:

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No.	Revision/Issue	Date

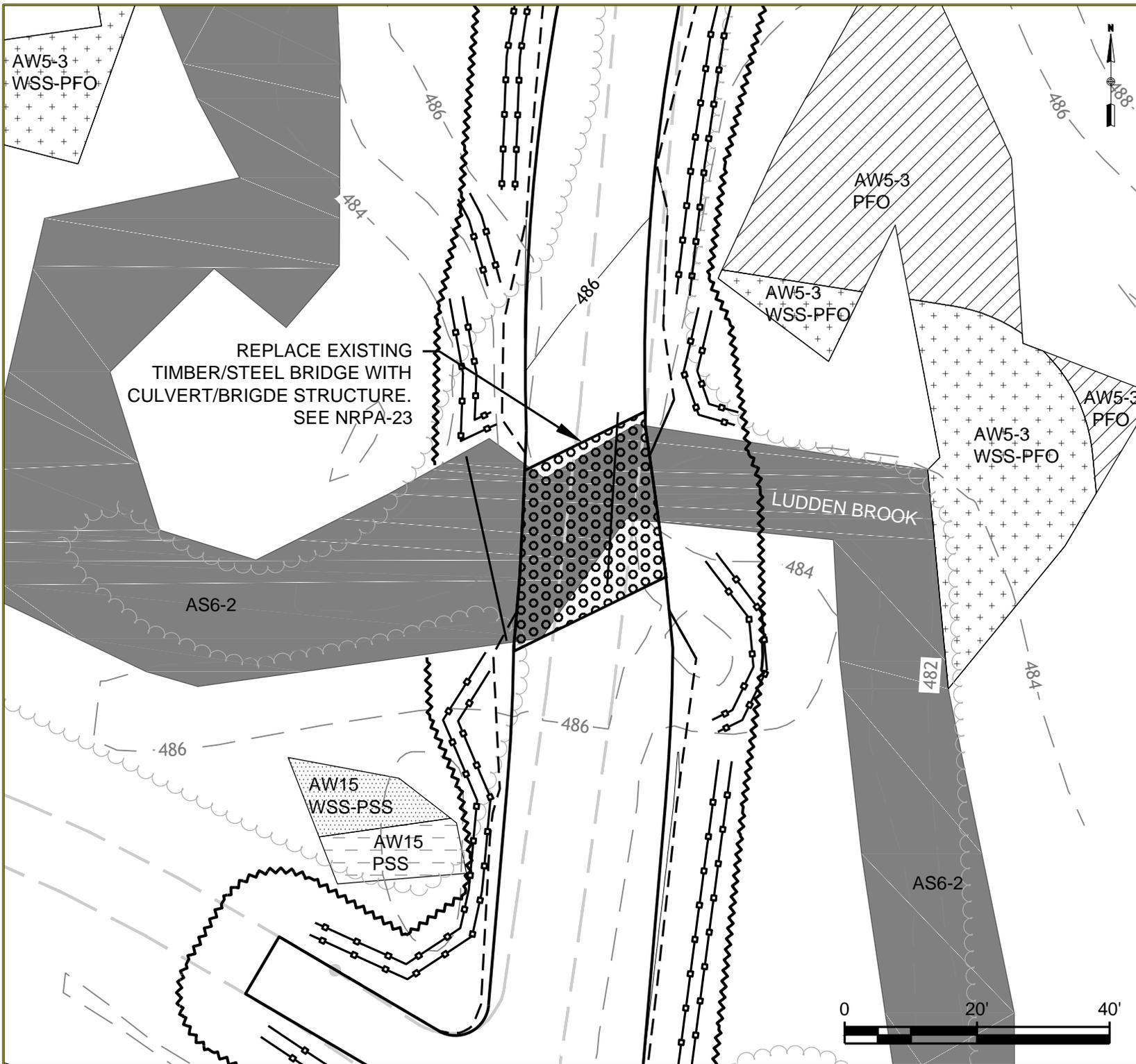
Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS6-1**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 7 of 30

Dwg No.: **NRPA-07**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

Drawing Title:

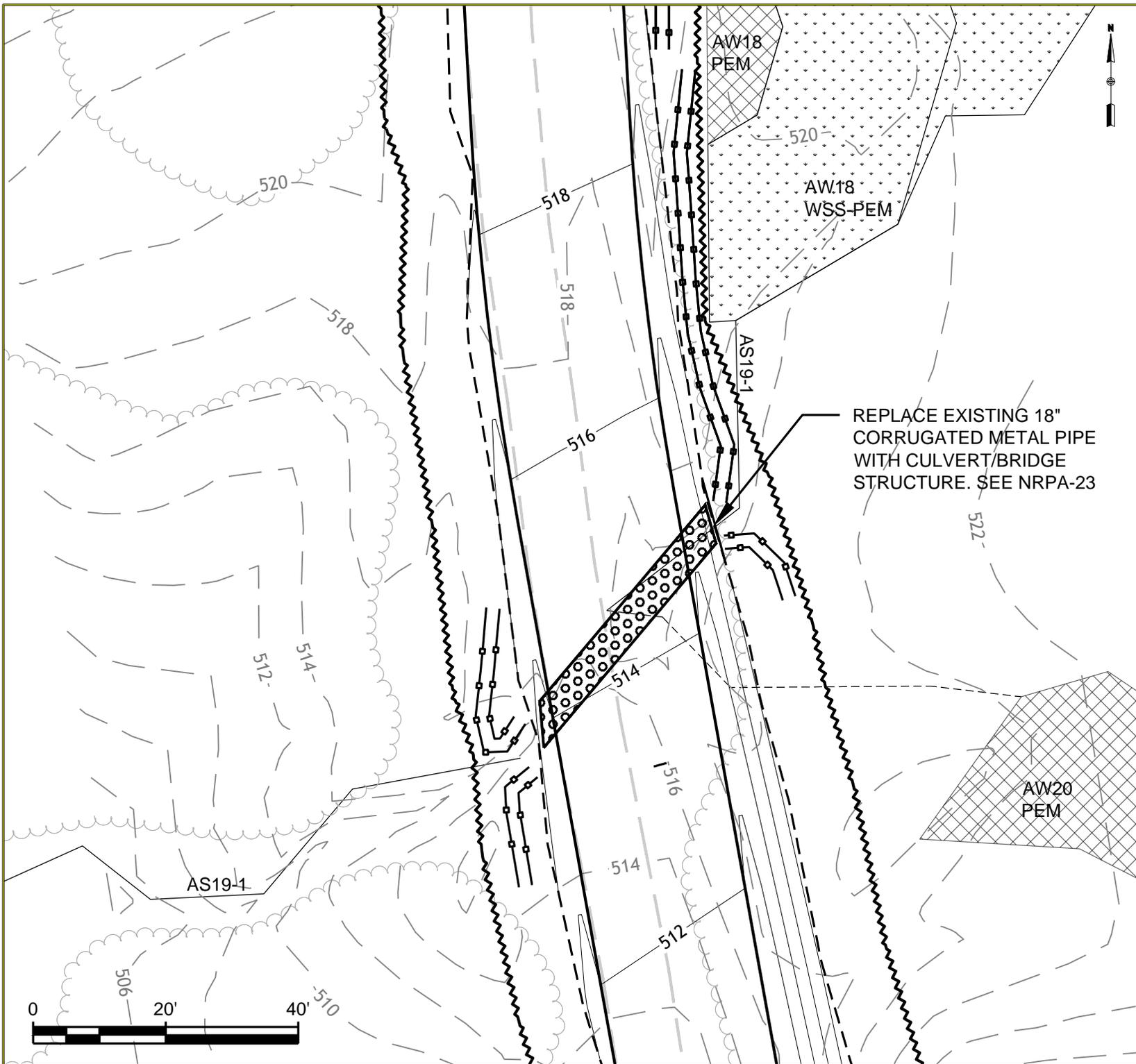
**CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS
STREAM AS6-2**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND
PROJECT
CANTON, ME**

Sheet Number:
9 of 30

Dwg No.: **NRPA-09**



GENERAL NOTES:

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7. REFER TO SHEET 2 FOR LEGEND



No.	Revision/Issue	Date

Drawing Title:

**CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS

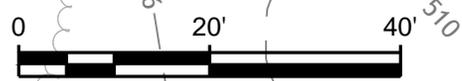
STREAM AS19-1**

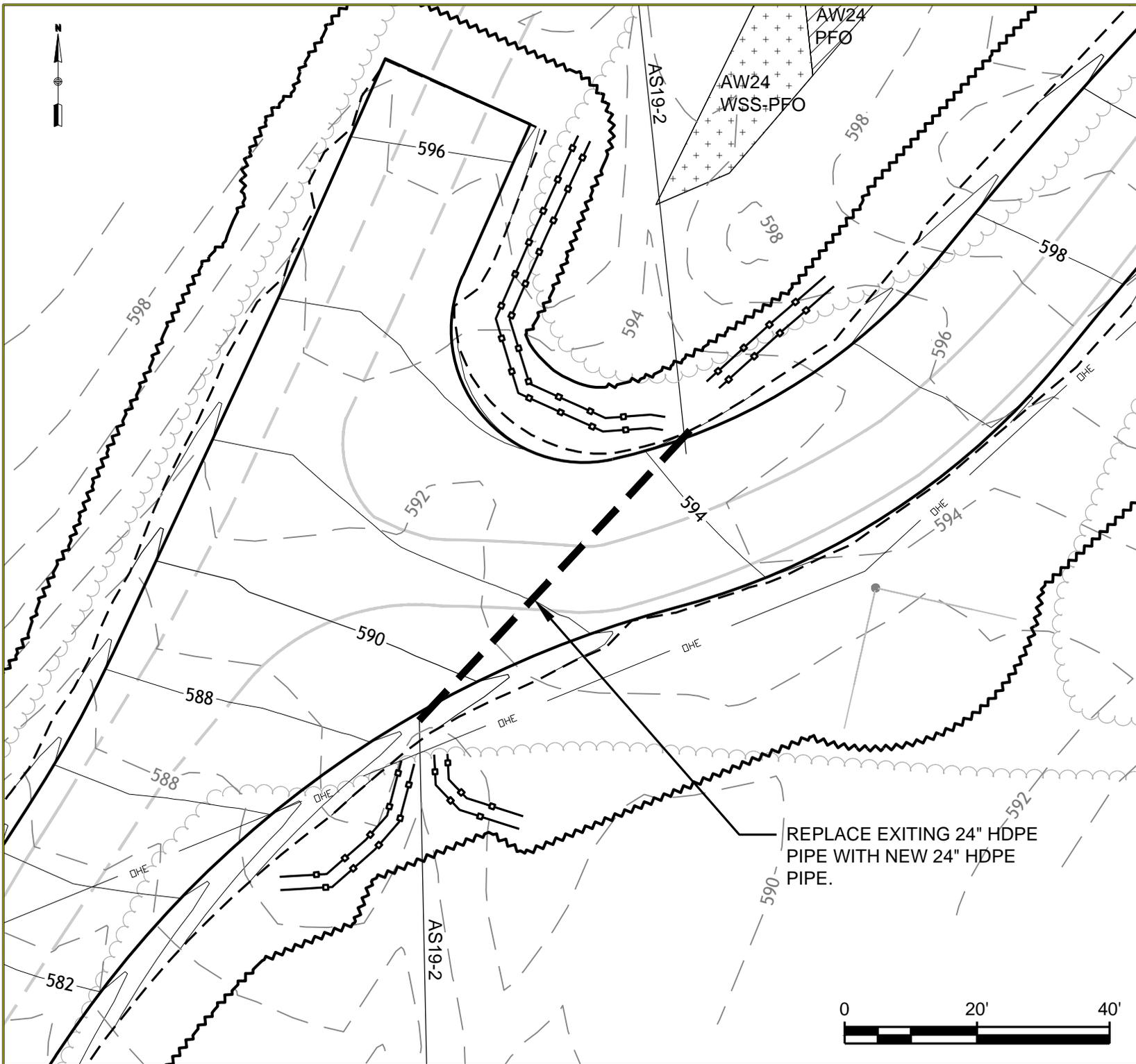
Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND
PROJECT
CANTON, ME**

Sheet Number:
10 of 30

Dwg No.: **NRPA-10**





GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
2. ELEVATIONS ARE REFERENCED TO NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. EXISTING TOPOGRAPHIC AND PLANNIMETRIC SURVEY INFORMATION WAS THE RESULT OF AERIAL TOPOGRAPHIC PHOTOGRAPHY AND AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
4. SOIL MAPPING WAS COMPLETED BY ALBERT FRICK ASSOCIATES, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) WAS COMPLETED BY TETRA TECH, INC.
6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS19-2**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

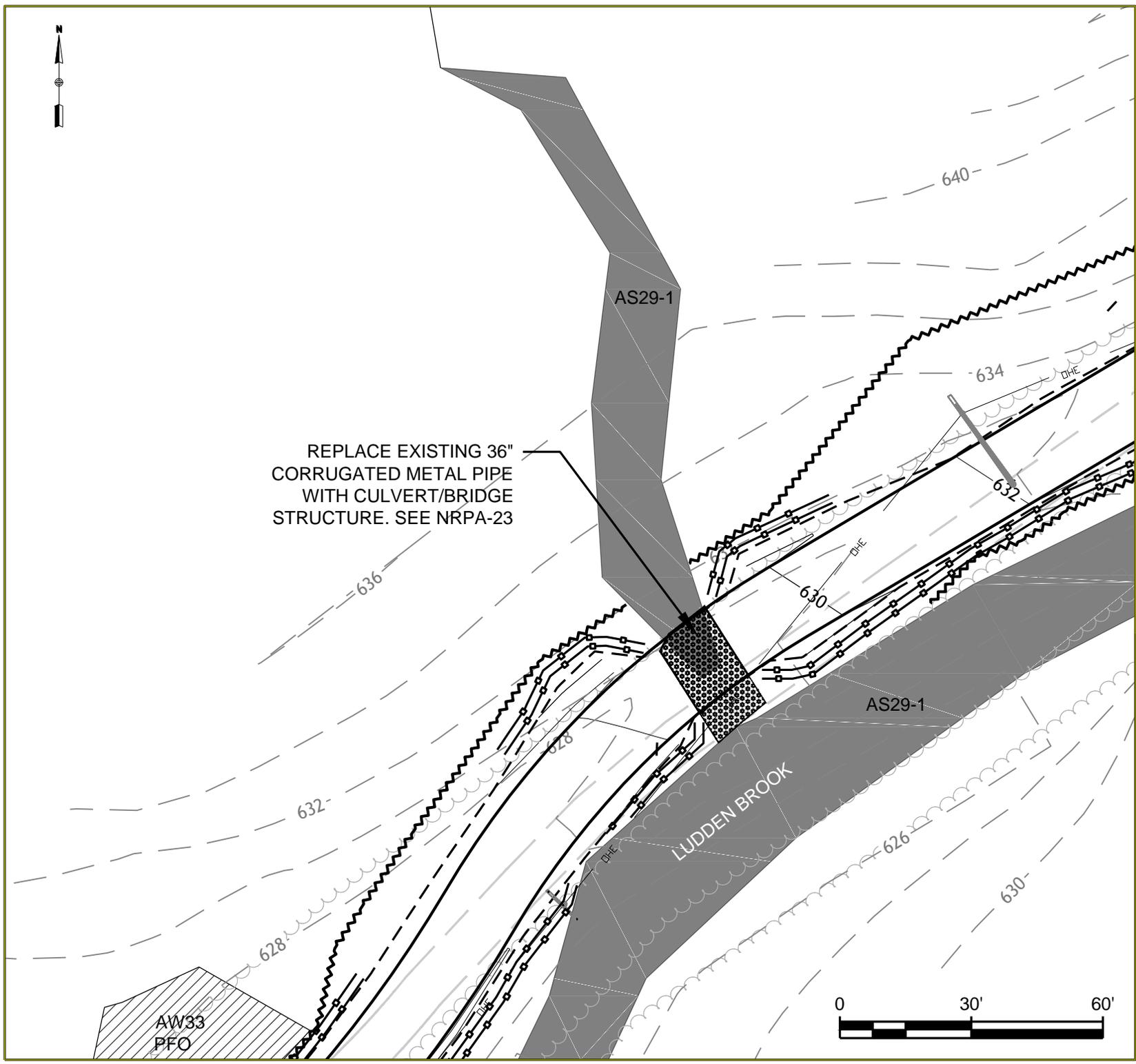
Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 11 of 30

Dwg No.: **NRPA-11**

REPLACE EXISTING 24" HDPE PIPE WITH NEW 24" HDPE PIPE.





GENERAL NOTES:

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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS29-1**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 15 of 30

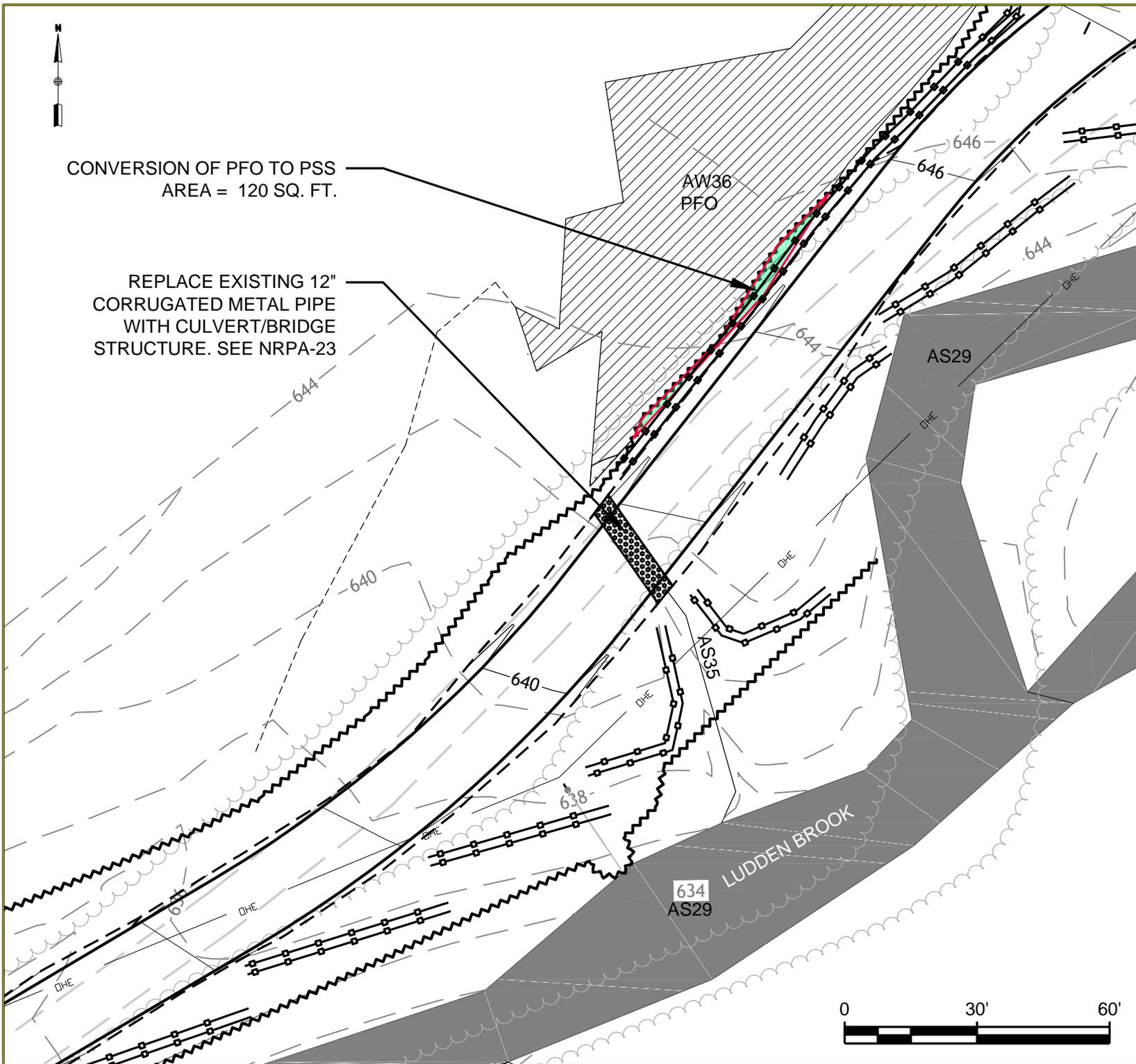
Dwg No.: **NRPA-15**





CONVERSION OF PFO TO PSS
AREA = 120 SQ. FT.

REPLACE EXISTING 12"
CORRUGATED METAL PIPE
WITH CULVERT/BRIDGE
STRUCTURE. SEE NRPA-23



GENERAL NOTES:

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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

Drawing Title:

CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS

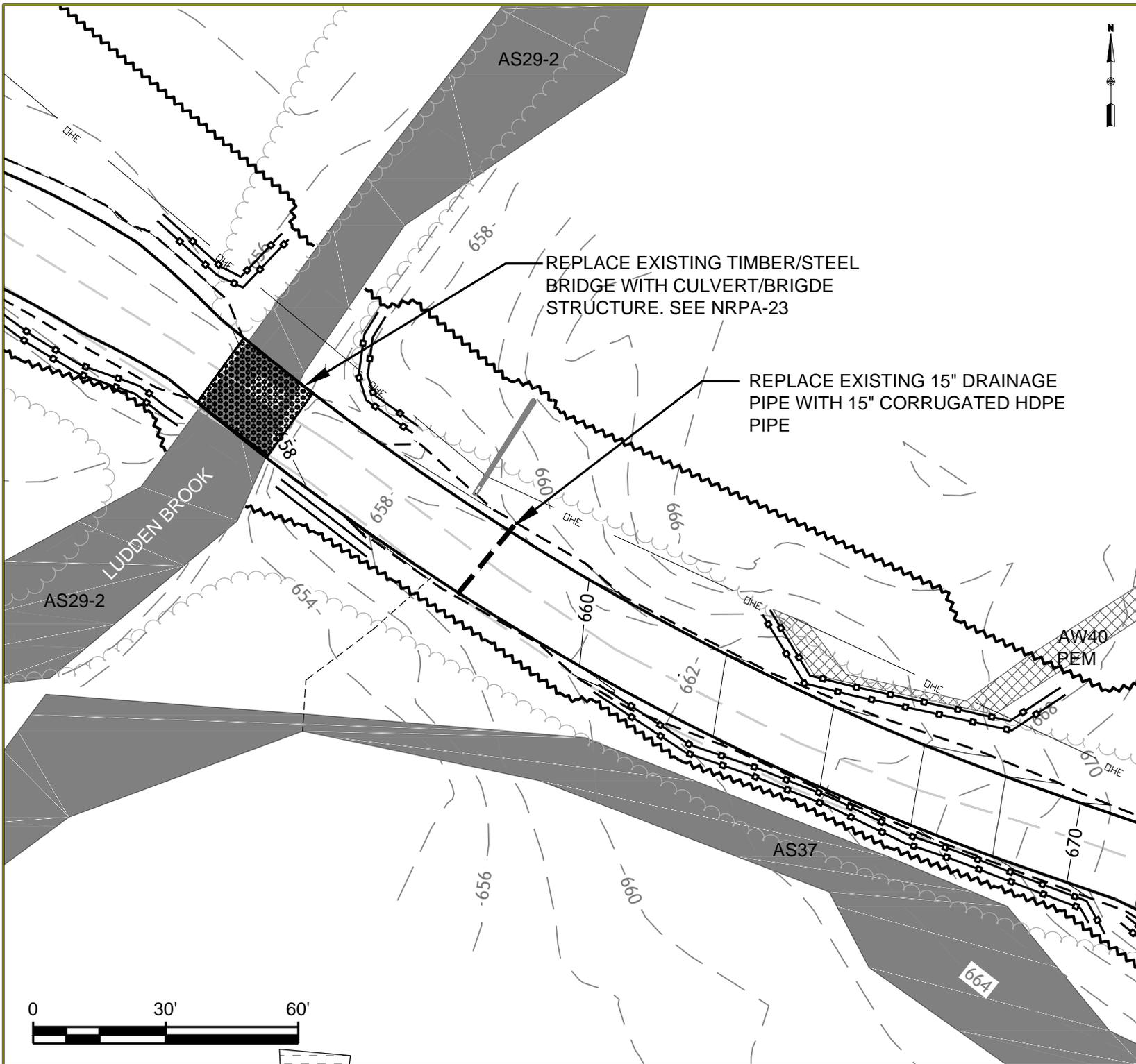
STREAM AS35
WETLAND AW36

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
CANTON MOUNTAIN WIND
PROJECT
CANTON, ME

Sheet Number:
16 of 30

Dwg No.: **NRPA-16**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

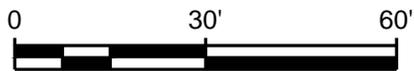
Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS29-2**

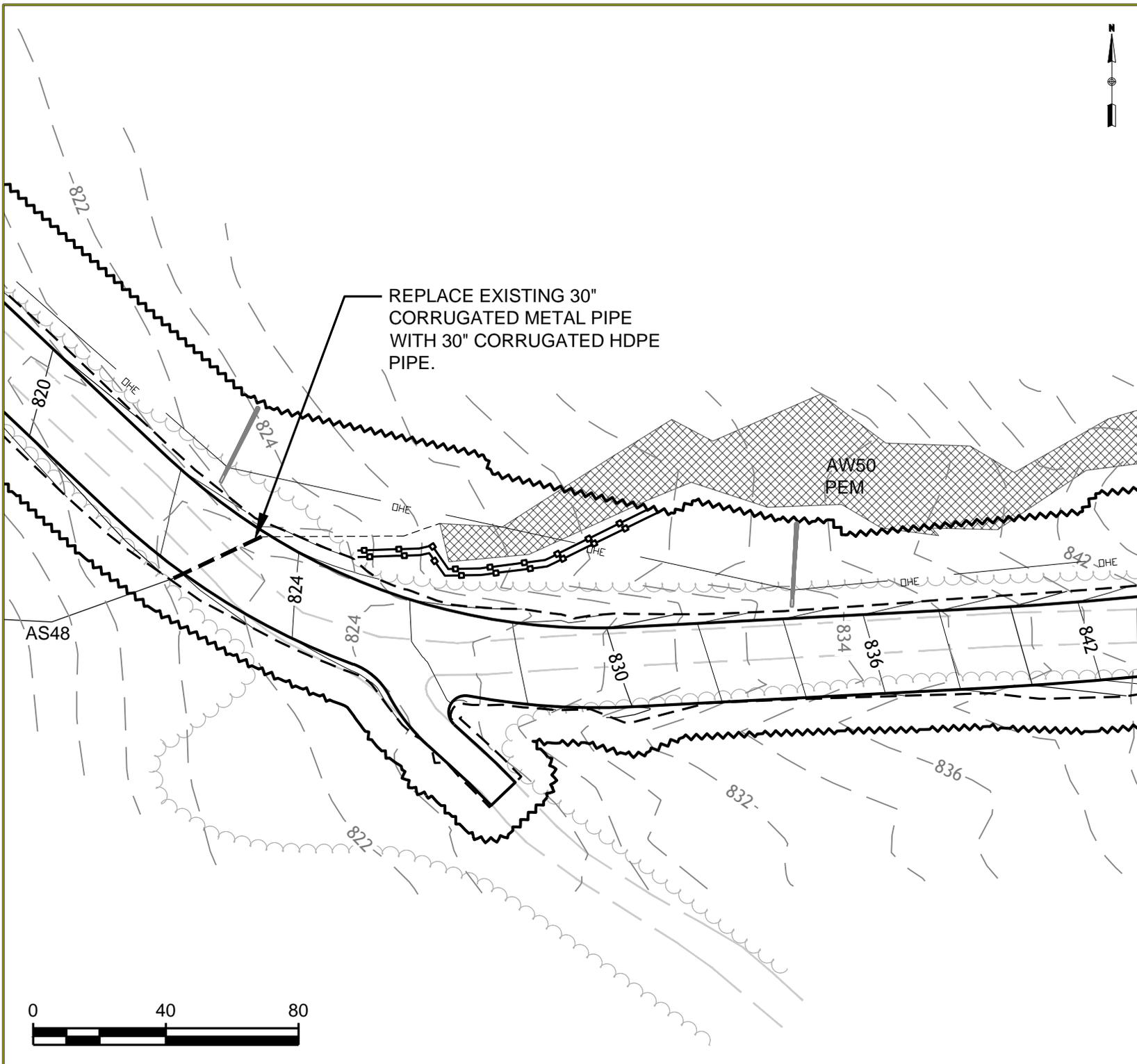
Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 17 of 30

Dwg No.: **NRPA-17**





GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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6. PROPERTY LINES ARE THE RESULT OF ACTUAL SURVEY LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

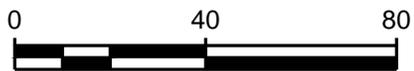
Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
 RESOURCE CROSSING PLANS
 STREAM AS48**

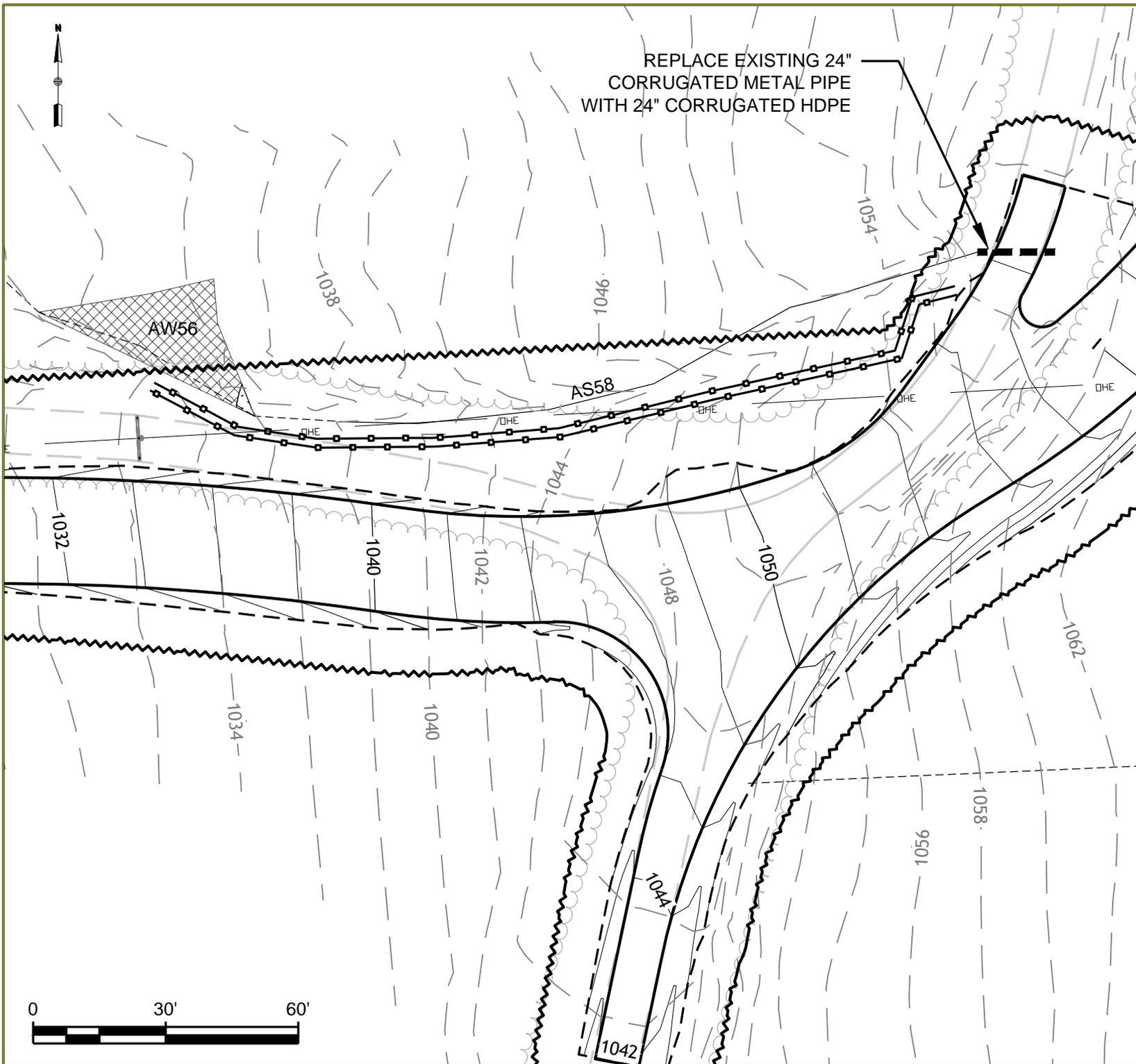
Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
 CANTON, ME**

Sheet Number:
 18 of 30

Dwg No.: **NRPA-18**





GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

Drawing Title:
**CANTON MOUNTAIN WIND PROJECT
RESOURCE CROSSING PLANS
STREAM AS58**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND PROJECT
CANTON, ME**

Sheet Number:
19 of 30

Dwg No.: **NRPA-19**



INSTALL CULVERT/BRIDGE
STRUCTURE. SEE NRPA-30

GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

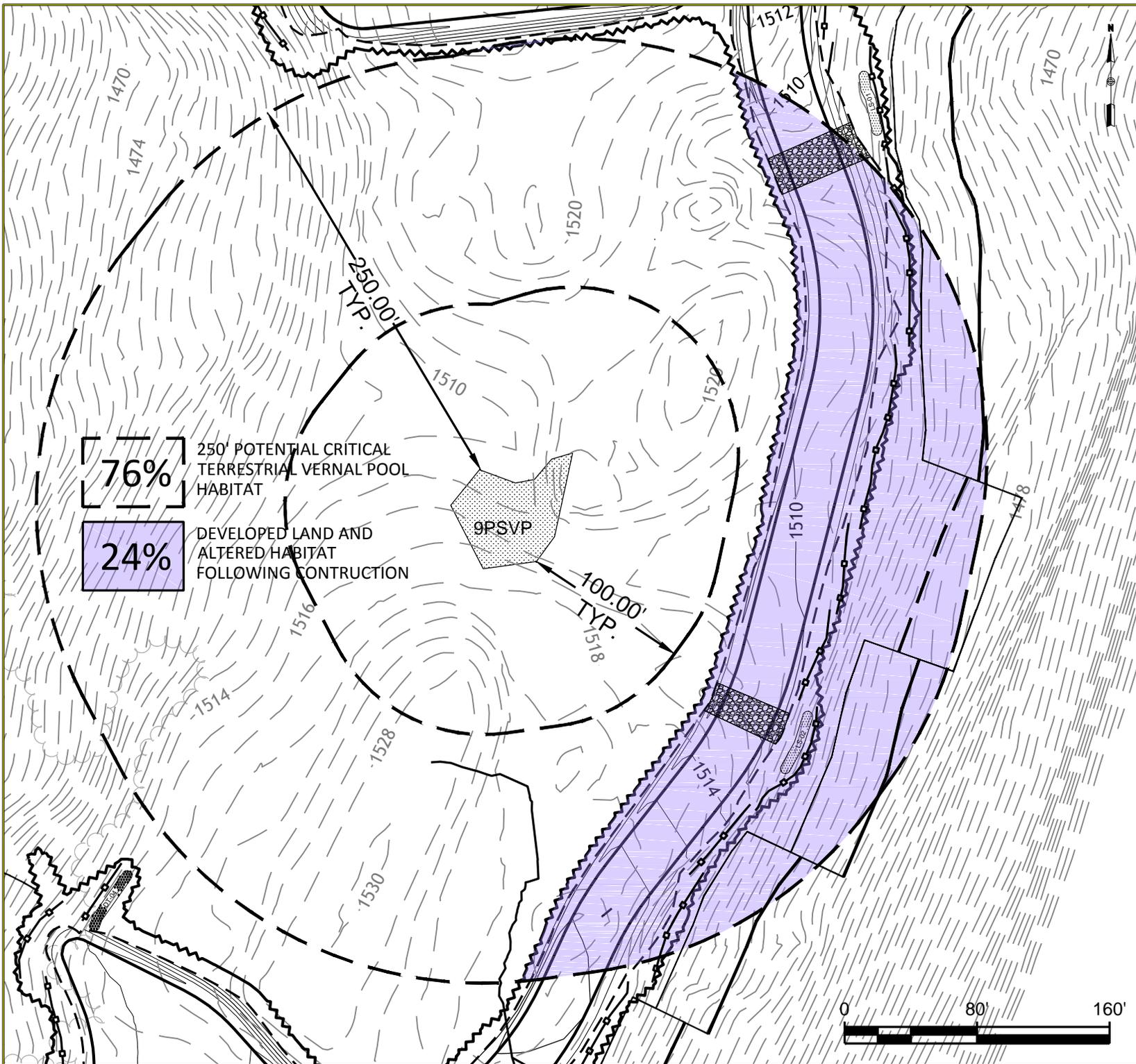
Drawing Title:
**CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS
STREAM AS49**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND
PROJECT
CANTON, ME**

Sheet Number:
20 of 30

Dwg No.: **NRPA-20**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

Drawing Title:

**CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS**

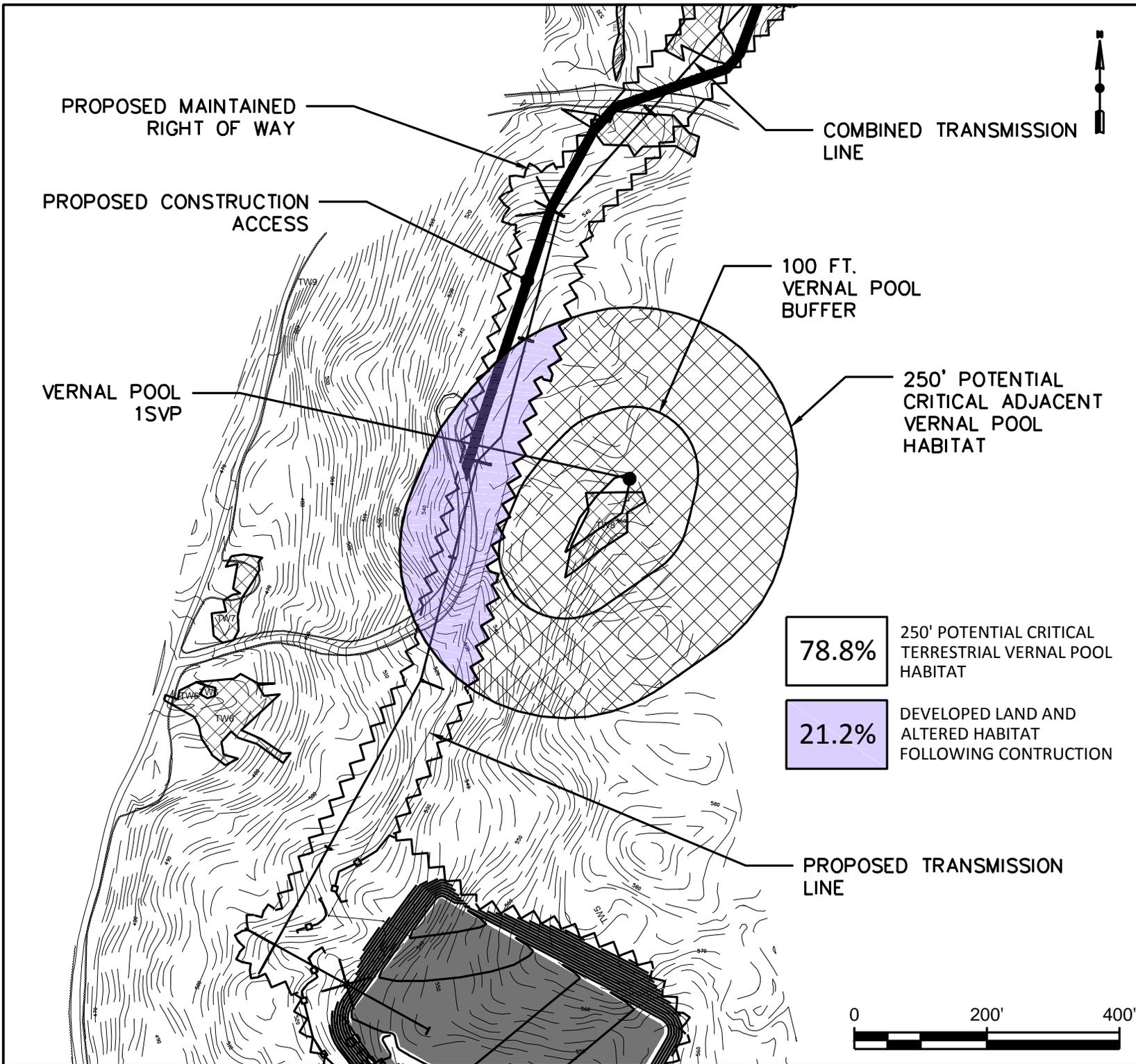
**250' POTENTIAL CRITICAL
ADJACENT VERNAL POOL
HABITAT**

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
**CANTON MOUNTAIN WIND
PROJECT
CANTON, ME**

Sheet Number:
21 of 30

Dwg No.: **NRPA-21**



GENERAL NOTES:

1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

No.	Revision/Issue	Date

78.8% 250' POTENTIAL CRITICAL TERRESTRIAL VERNAL POOL HABITAT

21.2% DEVELOPED LAND AND ALTERED HABITAT FOLLOWING CONSTRUCTION

Drawing Title:

CANTON MOUNTAIN WIND PROJECT
RESOURCE CROSSING PLANS

VERNAL POOL
1SVP

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Sheet Number:
29 of 30

Dwg No.:
NRPA-29





Attachment 3
Canton Mountain Wind, LLC
Certificate of Good Standing

State of Maine



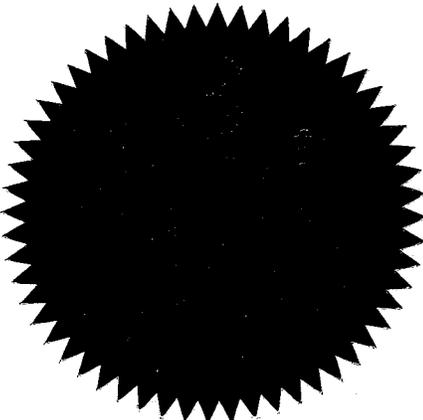
Department of the Secretary of State

I, the Secretary of State of Maine, certify that according to the provisions of the Constitution and Laws of the State of Maine, the Department of the Secretary of State is the legal custodian of the Great Seal of the State of Maine which is hereunto affixed and of the records of qualification of foreign limited liability companies in this State and annual reports filed by the same.

I further certify that CANTON MOUNTAIN WIND, LLC, a MASSACHUSETTS limited liability company, is a duly qualified foreign limited liability company under the laws of the State of Maine and that the application for authority to transact business in this State was filed on November 01, 2011.

I further certify that said foreign limited liability company has filed annual reports due to this Department, and that no action is now pending by or on behalf of the State of Maine to forfeit the authority to transact business in this State and that according to the records in the Department of the Secretary of State, said foreign limited liability company is a legally existing limited liability company in good standing under the laws of the State of Maine at the present time.

In testimony whereof, I have caused the Great Seal of the State of Maine to be hereunto affixed, given under my hand at Augusta, Maine, this second day of November 2011.



A handwritten signature in black ink, reading "Charles E. Summers, Jr.", written over a horizontal line.

Charles E. Summers, Jr.
Secretary of State



Attachment 4

Stream and Significant Vernal Pool Photo Documentation

PHOTOGRAPHIC RECORD

Company: Patriot Renewables, LLC
Project: Canton Mountain Wind Project – Permit-by-Rule Photographic Documentation



Photo No.: 1
Plan ID: AS6
Waterbody: CASBK13
Date: August 3, 2010
Photographer: Rodney Kelshaw

Comments: A southerly flowing perennial stream that has an average width of 6 feet and an average bank width of 10 feet.



Photo No.: 2
Plan ID: AS9
Waterbody: CASBK22
Date: August 5, 2010
Photographer: Rodney Kelshaw

Comments: Intermittent stream that has an average width of 1.5 feet and an average bank width of 3 feet. Stream flows through wetland CAWBK12 in a westerly direction. Photo is looking west.



Photo No.: 5
Plan ID: AS19
Waterbody: CASBJ4
Date: August 6, 2010
Photographer: Richard Jordan

Comments: Intermittent stream is associated with wetland CAWBK28. There is evidence of upstream erosion. The stream crosses under two access roads and flows in a southerly direction. Photo depicts where the stream becomes steep.

PHOTOGRAPHIC RECORD

Company: Patriot Renewables, LLC
Project: Canton Mountain Wind Project – Permit-by-Rule Photographic Documentation



Photo No.: 8
Plan ID: AS29
Waterbody: CASBW6
Date: August 9, 2010
Photographer: Heather Storlazzi Ward

Comments: Westerly flowing perennial stream with an average stream width of 30 feet and an average bank width of 50 feet. Photo was taken looking south.



Photo No.: 10
Plan ID: AS35
Waterbody: CASBW7
Date: August 9, 2010
Photographer: Heather Storlazzi Ward

Comments: Southerly flowing intermittent stream with a bank width of 2 feet and a depth of 6 inches. Stream at the road culvert. Photo taken looking north.



Photo No.: 13
Plan ID: AS48
Waterbody: CASBK41
Date: August 9, 2010
Photographer: Rodney Kelshaw

Comments: Westerly flowing intermittent stream that has an average width of 3 feet with an average bank width of 4 feet. Photo was taken looking east.

PHOTOGRAPHIC RECORD

Company: Patriot Renewables, LLC
Project: Canton Mountain Wind Project – Permit-by-Rule Photographic Documentation



Photo No.: 14
Plan ID: AS49
Waterbody: CASBK42
Date: August 9, 2010
Photographer: Rodney Kelshaw

Comments: Westerly flowing intermittent stream with an average width of 3 feet and an average bank width of 5 feet. Photo was taken looking west.



Photo No.: 16
Plan ID: AS58
Waterbody: CRSBW23
Date: August 11, 2010
Photographer: Heather Storlazzi Ward

Comments: A perennial stream that was an average width of 2 feet and an average bank width of 3 feet. Photo is looking upstream.



Photo No.: 6
Plan ID: 9PSVP (potential vernal pool on ridgeline)
Vernal Pool: CR_11SVP_BA421
CR_11SVP_BA506
Date: April 21, 2010
Photographer: Rodney Kelshaw

Comments: Facing south.

PHOTOGRAPHIC RECORD

Company: Patriot Renewables, LLC
Project: Canton Mountain Wind Project – Permit-by-Rule Photographic Documentation

Maine Department of Inland Fisheries and Wildlife confirmed significant vernal pool east of proposed transmission line (filed with Saddleback Ridge Wind Project)



Photo No.: 1
Vernal Pool: RT_9SVP_FA042110
Date: April 21, 2010
Photographer: J. Logan
Comments:
9SVP From South



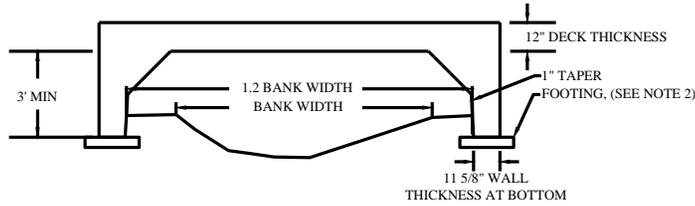
Attachment 5 Stream Crossing Engineering Details

GENERAL NOTES:

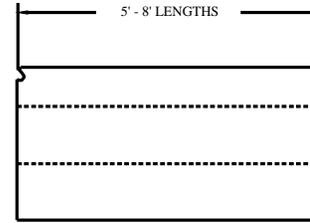
1. NORTH IS REFERENCED TO GRID NORTH NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
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7. REFER TO SHEET 2 FOR LEGEND

STREAM CROSSINGS DETAIL

NOT TO SCALE



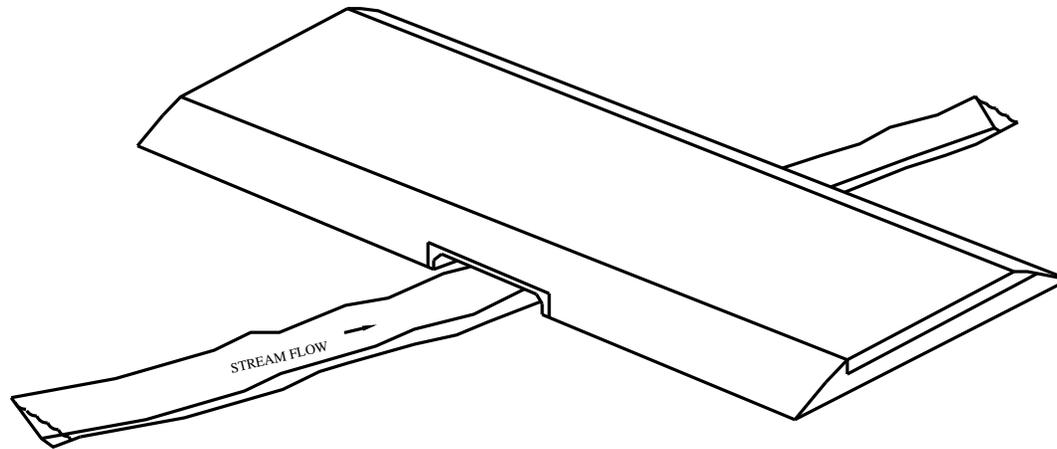
LONGITUDINAL SECTION VIEW
NOT TO SCALE



TRANSVERSE SECTION VIEW
NOT TO SCALE

NOTES:

1. SPECIAL CULVERT SECTION PRECAST BY OLDCASTLE PRECAST.
2. SPECIAL CULVERT SECTION RESTS ON SMALL FOOTINGS, WHERE THE VENDOR DEEMS NEEDED
3. USE SPECIAL CULVERT SECTION FOR STREAMS OF SPECIAL INTEREST.
4. HEIGHT AND TOTAL SPAN WILL VARY AT BRIDGE CROSSINGS.
5. INTERIOR OF CULVERT TO BE CLEAR OF RIPRAP BACK FILL AND DEBRIS



ISOMETRIC VIEW
NOT TO SCALE

No.	Revision/Issue	Date

Drawing Title:

CANTON MOUNTAIN
WIND PROJECT
RESOURCE CROSSING PLANS

CULVERT/BRIDGE
DETAIL

Date: 11/21/11	Scale: AS SHOWN
Drawn By: GD	Chk'd By: BC

Project:
CANTON MOUNTAIN WIND
PROJECT
CANTON, ME

Sheet Number:
30 of 30

Dwg No.: **NRPA-30**