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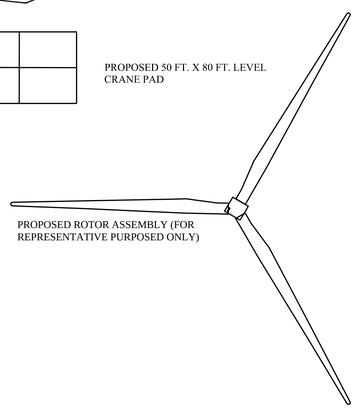
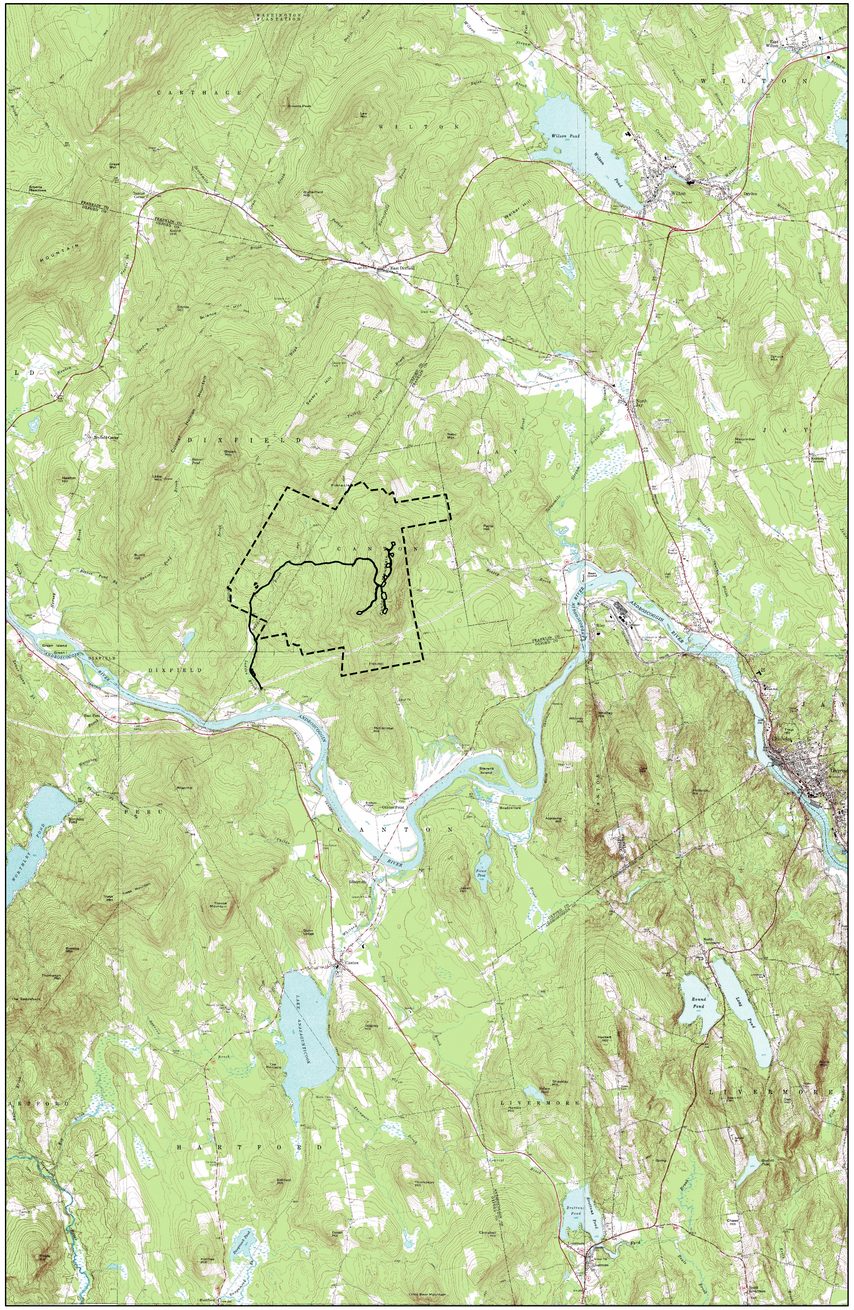
LEGEND

- EXISTING TREELINE
- EXISTING ROAD
- EXISTING GRADE CONTOUR (1160)
- EXISTING BUILDING/STRUCTURE
- EXISTING UTILITY POLE
- STREAM
- STREAM
- PROPOSED CLEARING LIMIT
- PROPOSED GRADE CONTOUR (1180)
- PROPOSED ROAD CENTERLINE
- PROPOSED CULVERT/STRUCTURE
- PROPOSED EROSION CONTROL MIX BERM
- PROPOSED CULVERT
- PROPOSED LEVEL LIP SPREADER
- PROPOSED DITCH TURNOUT
- PROPOSED DIVERSION BERM
- PROPOSED ROCK SANDWICH/ROCK MAKI
- PROPOSED REVEGETATED AREA
- PROPOSED VISUAL BUFFER

- BF # — PROPOSED STORMWATER TREATMENT BUFFER
- BF # — PROPOSED STORMWATER TREATMENT BUFFER WITH STONE TREATMENT BERM
- BF # — PROPOSED STORMWATER TREATMENT BUFFER WITH DISTRIBUTION BERM
- PROPOSED 50 FT. X 80 FT. LEVEL CRANE PAD



WETLANDS
- PSS
- PEM
- PFO
- WSS PSS
- WSS PEM
- WSS PFO



CANTON MOUNTAIN WIND PROJECT
VICINITY MAP

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 Maine State Planes, West Zone, US Foot.

3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

4. EXISITNG TOPOGRAPHIC AND PLANNNIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY. INC.

5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.

6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.

7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
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7 ALLEN ROAD, ROCHESTER, MA 02770
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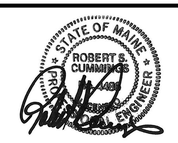


Drawing Title:

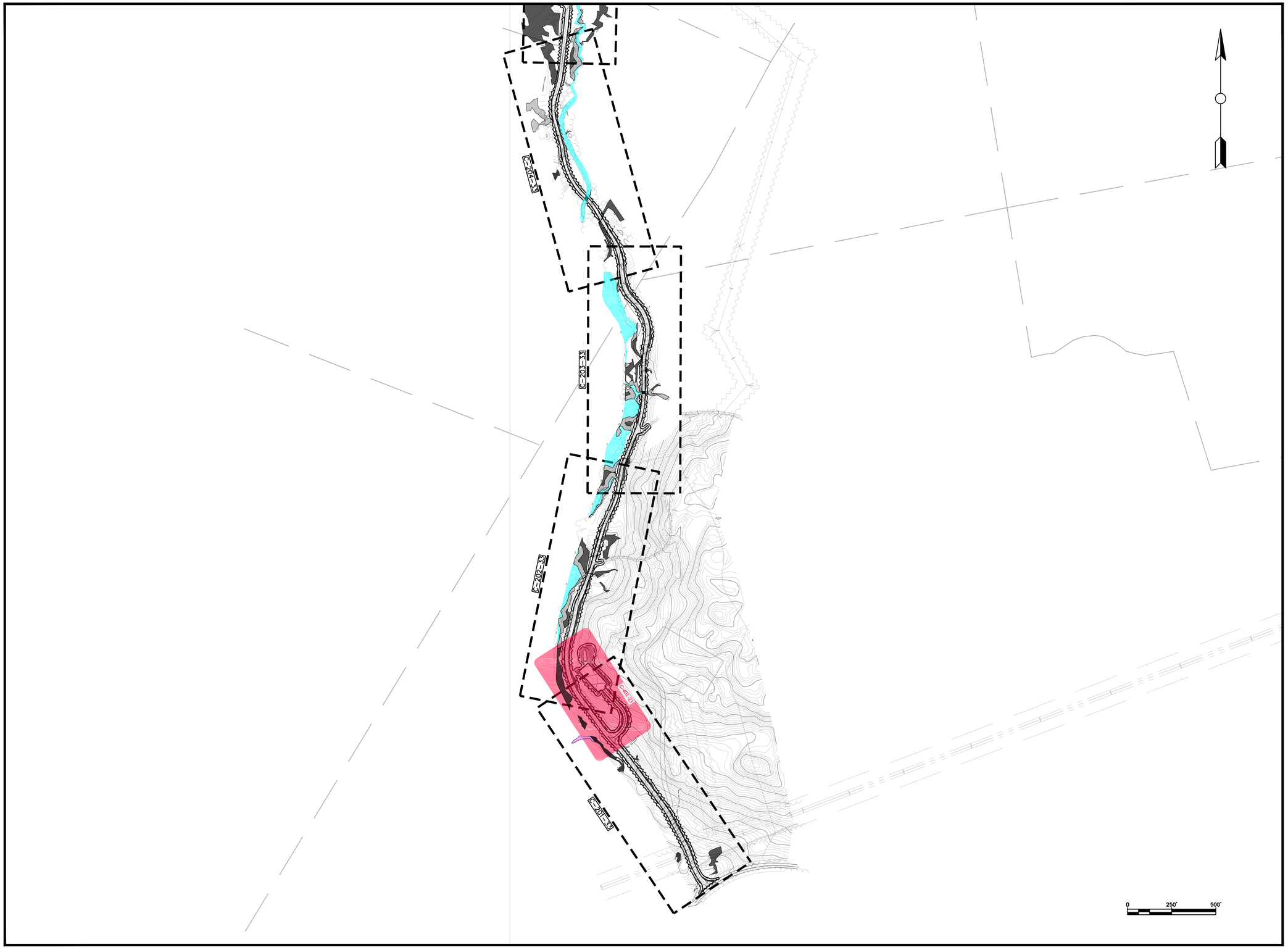
Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 1 OF 44

Dwg No.: C-100-33



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STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE/LOGGING ROAD IMPROVEMENTS AND TEMPORARY WIDENING

INDEX SHEET

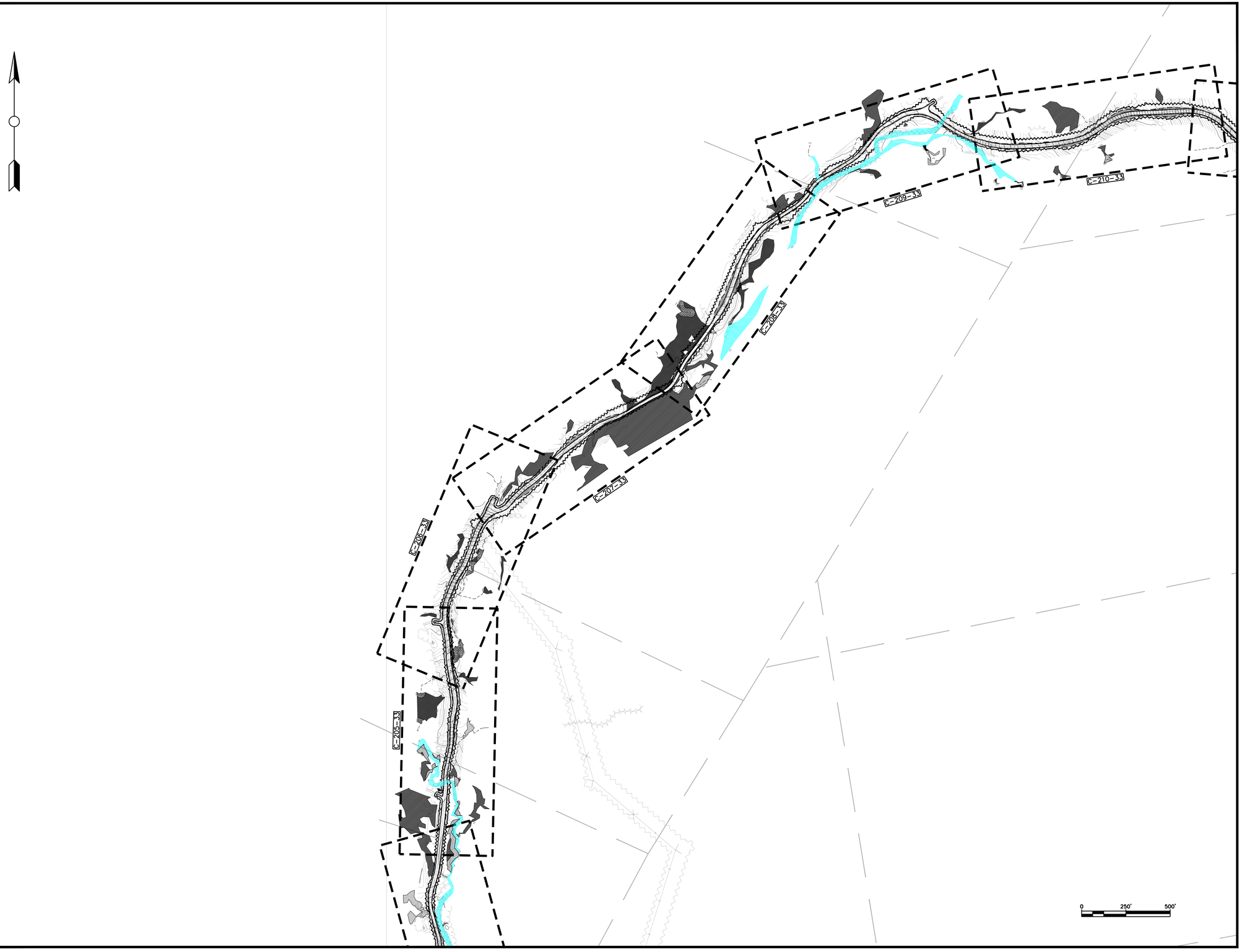
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 2 OF 44

Dwg No.: C-200-33A



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No.	Revision/Issue	Date

PATRIOT RENEWABLES

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Drawing Title:

LUDDEN LANE/LOGGING ROAD IMPROVEMENTS AND TEMPORARY WIDENING

INDEX SHEET

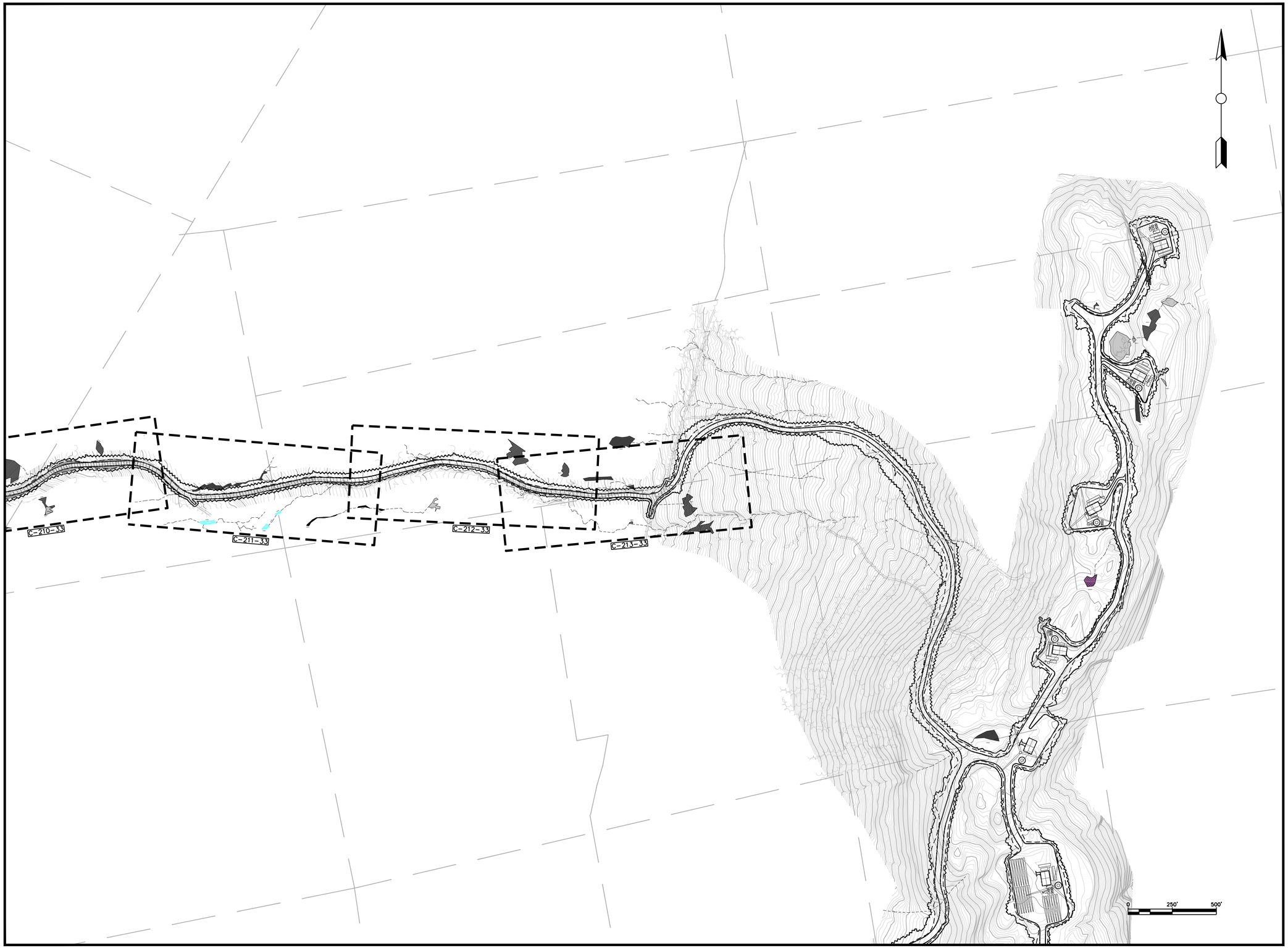
Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 3 OF 44

Dwg No.: C-200-33B



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No.	Revision/Issue	Date

PATRIOT RENEWABLES

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STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE/LOGGING ROAD IMPROVEMENTS AND TEMPORARY WIDENING

INDEX SHEET

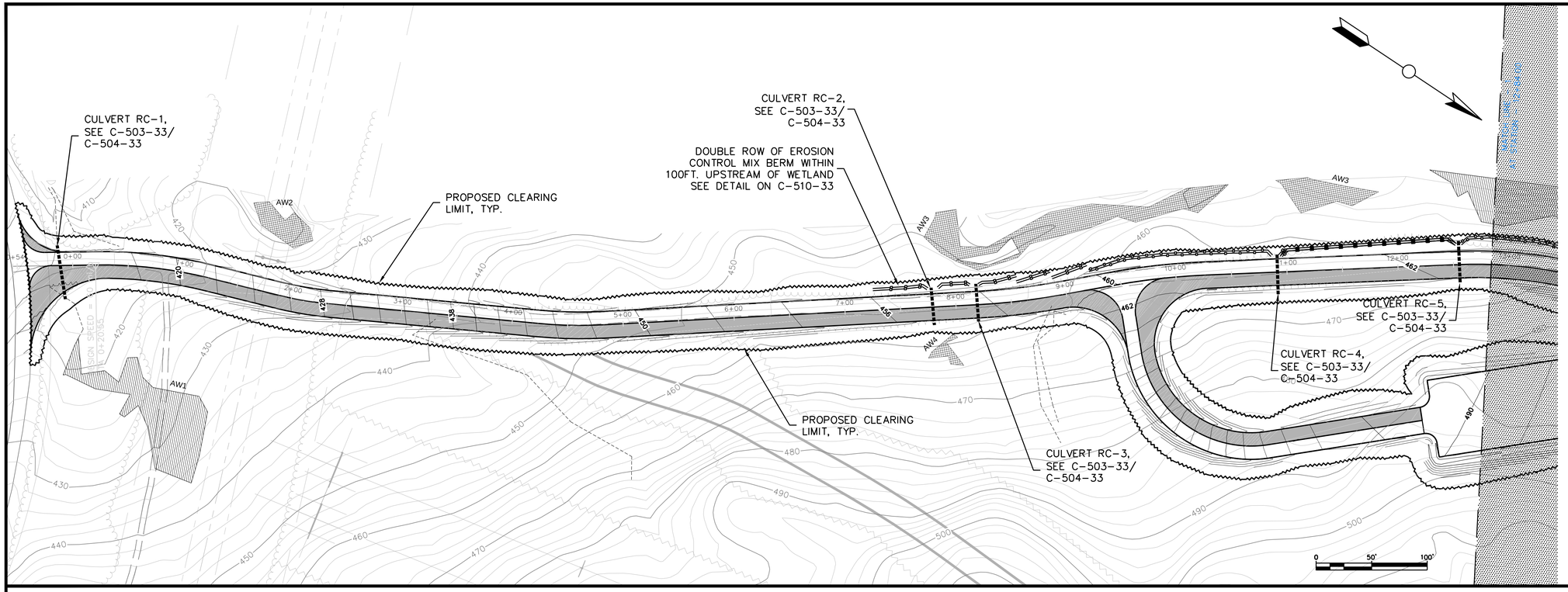
Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	**Chk'd By:**
GAD	RSC

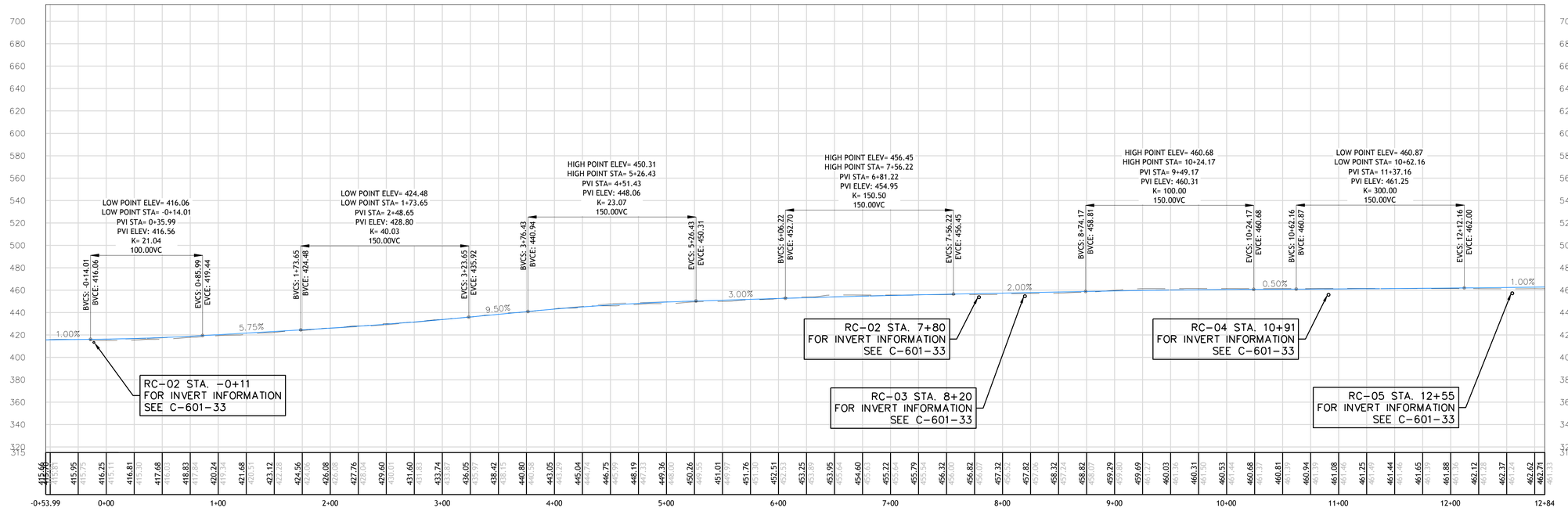
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 4 OF 44

Dwg No.: C-200-33C





LUDDEN LANE Profile
Station -0+53.99 To Station 12+84.00

GENERAL NOTES:

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

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ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE PLAN AND PROFILE

STA. 0+00 TO 12+84

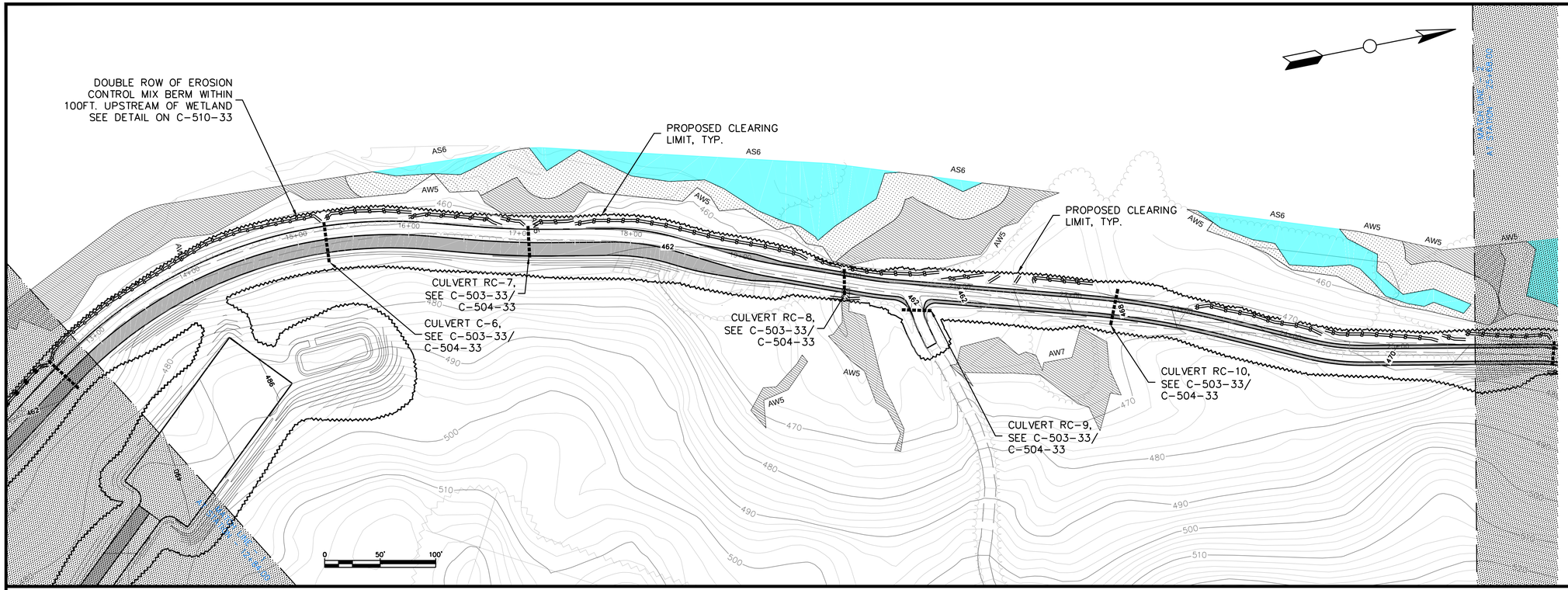
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

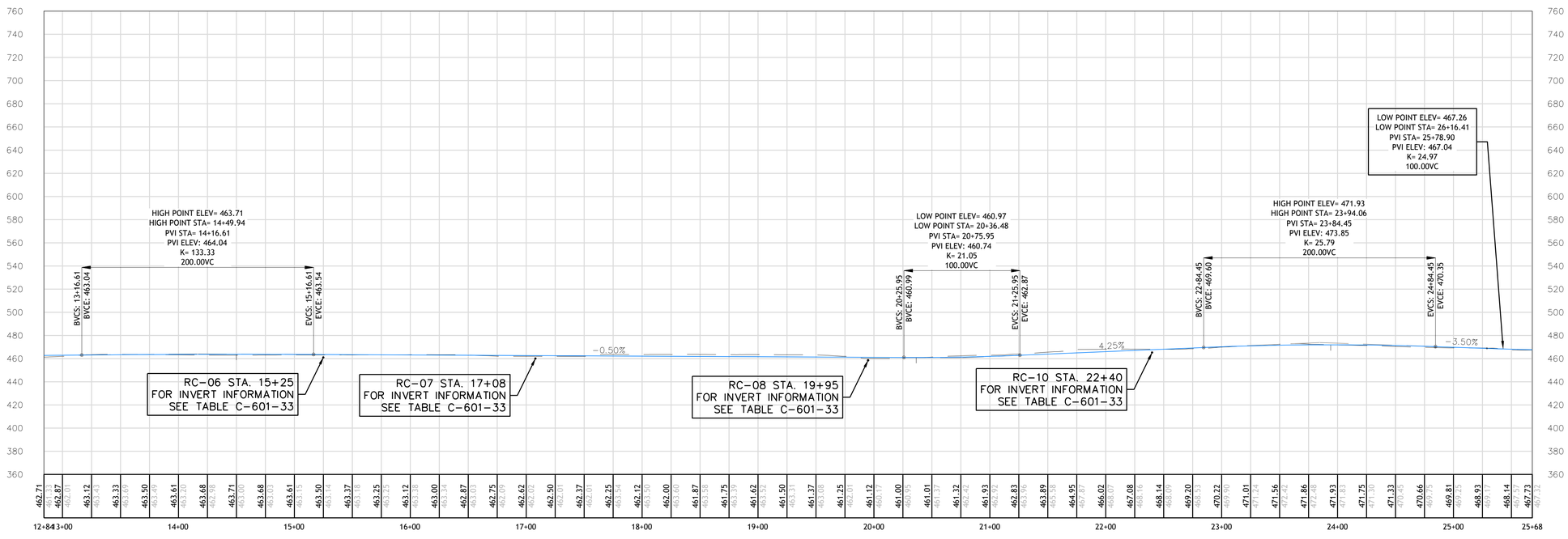
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 5 OF 44

Dwg No.: C-201-33





LUDDEN LANE Profile
Station 12+84.00 To Station 25+68.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

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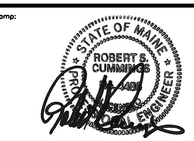


Drawing Title:

LUDDEN LANE PLAN AND PROFILE

STA. 12+84 TO 25+68

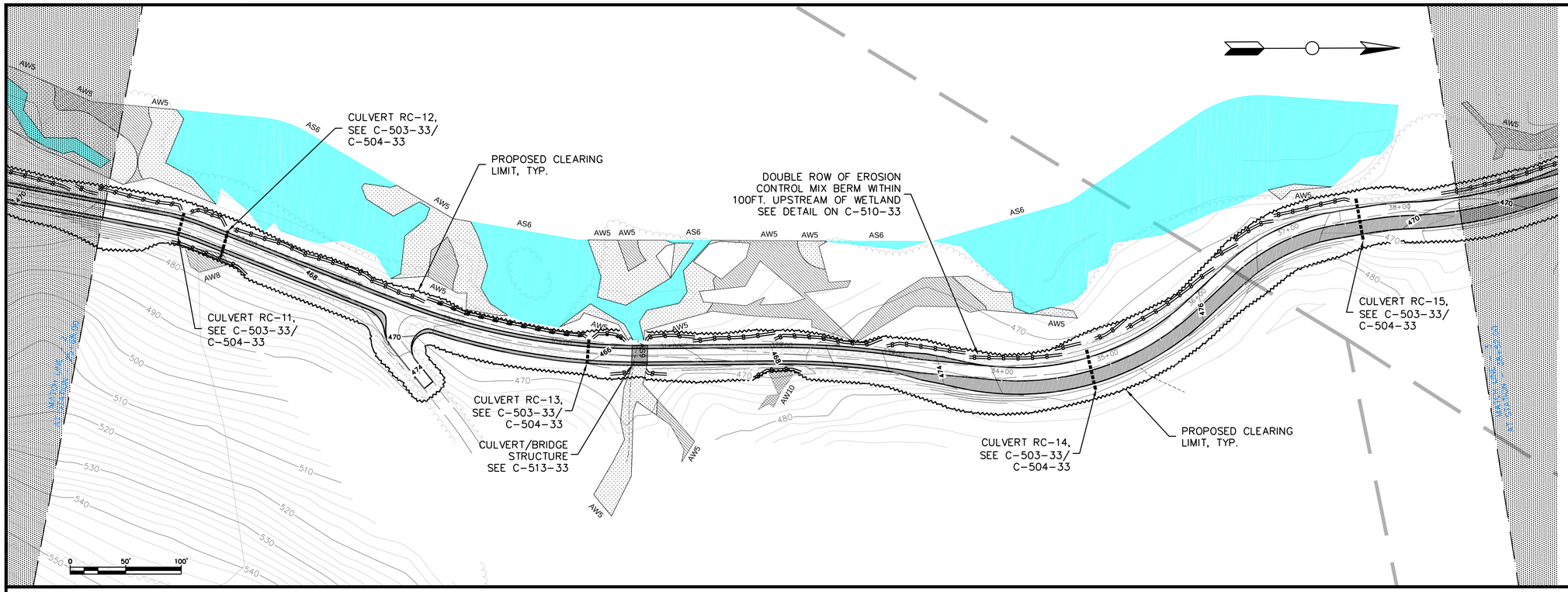
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

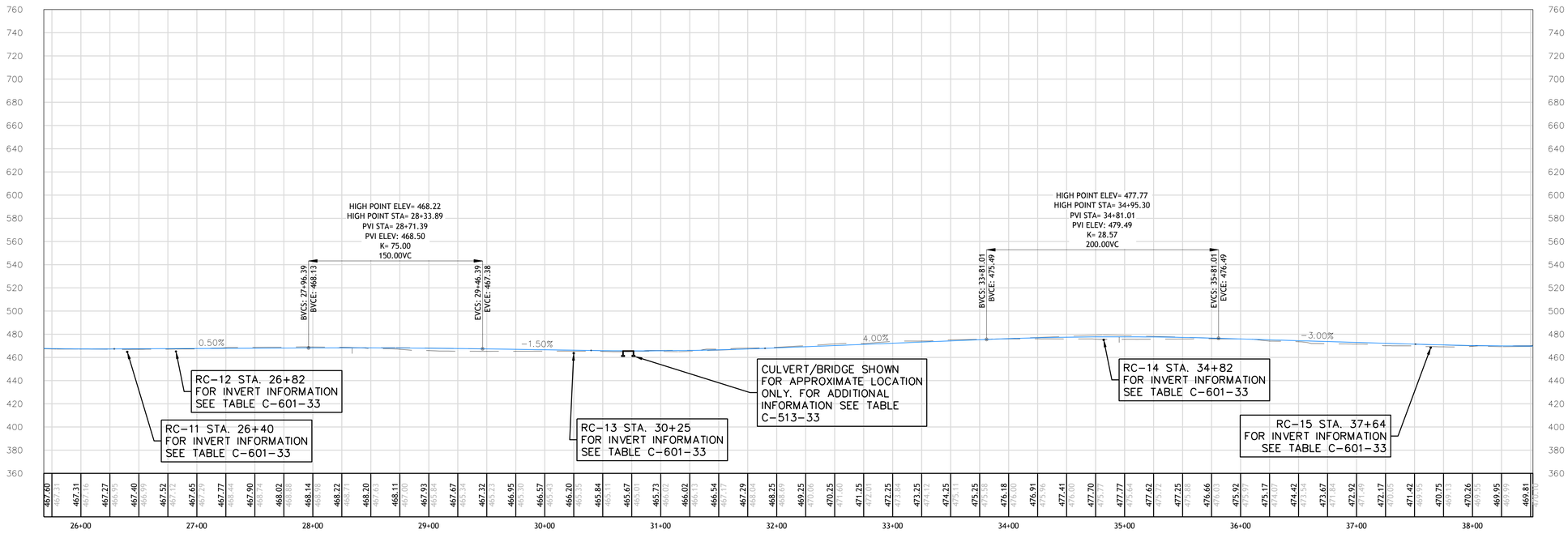
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 6 OF 44

Dwg No.: C-202-33





LUDDEN LANE Profile
Station 25+68.00 To Station 38+52.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE PLAN AND PROFILE

STA. 25+68 TO 38+52

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

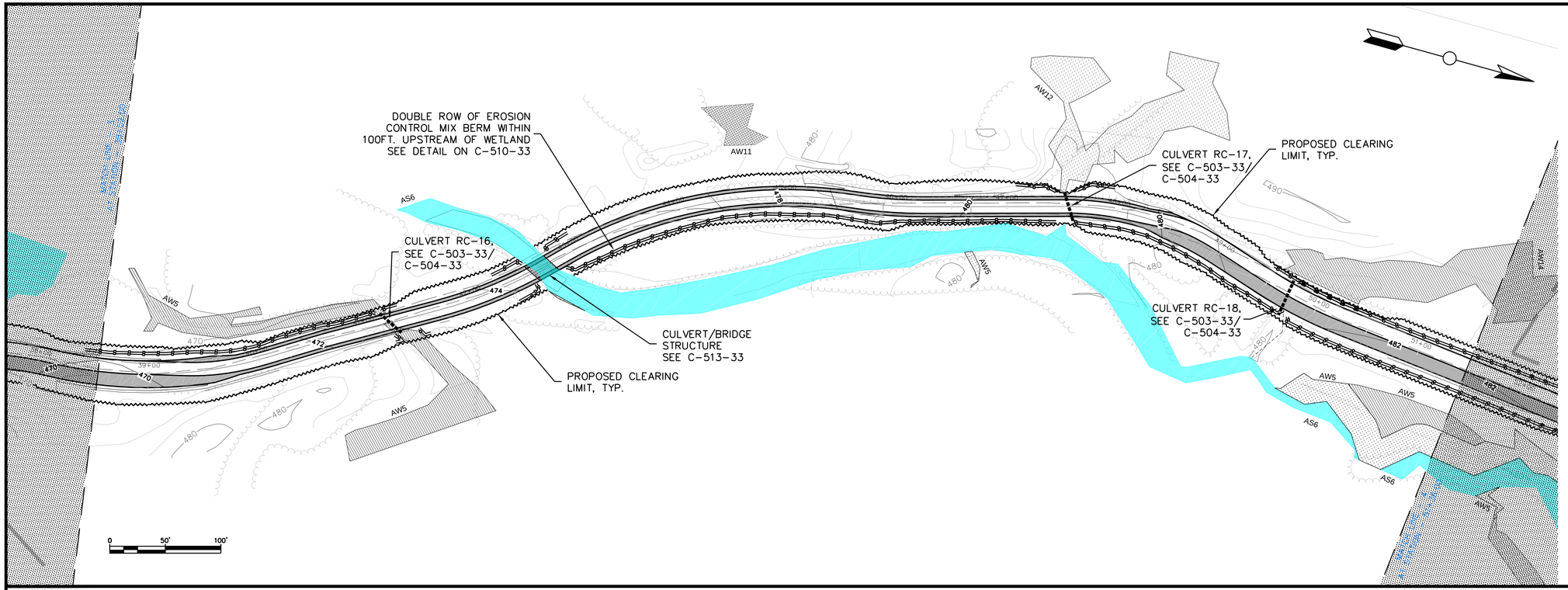
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

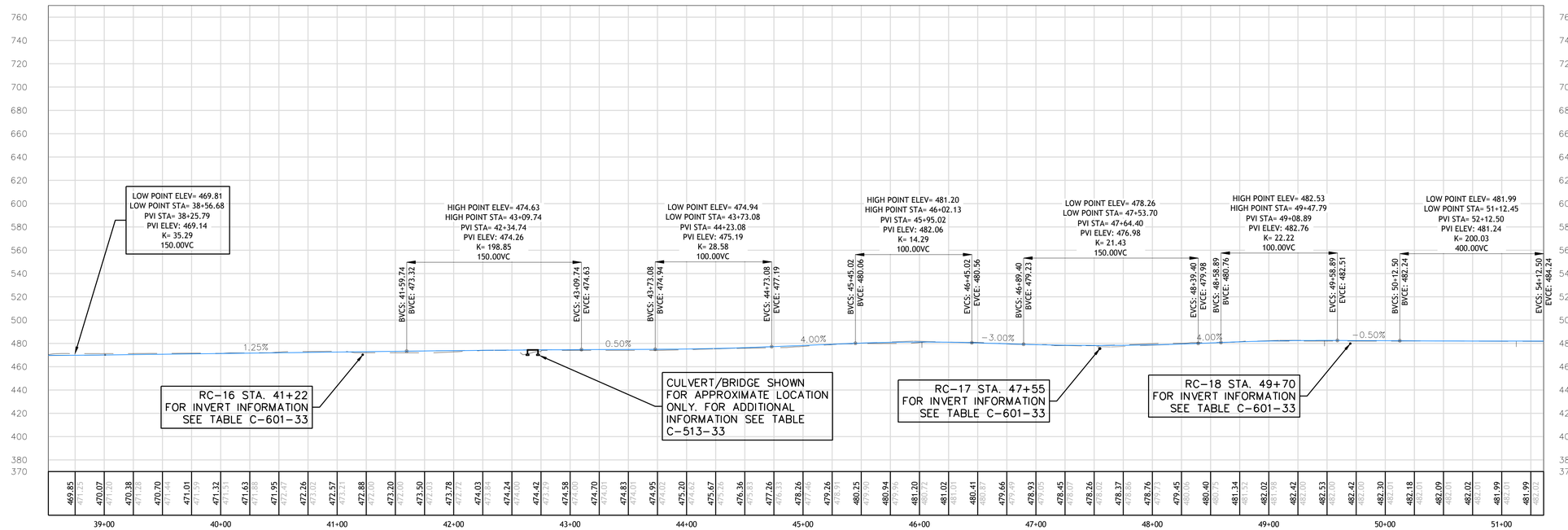
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 7 OF 44

Dwg No.:

C-203-33





LUDDEN LANE Profile
Station 38+52.00 To Station 51+36.00

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No.	Revision/Issue	Date

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Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE PLAN AND PROFILE

STA. 38+52 TO 51+36

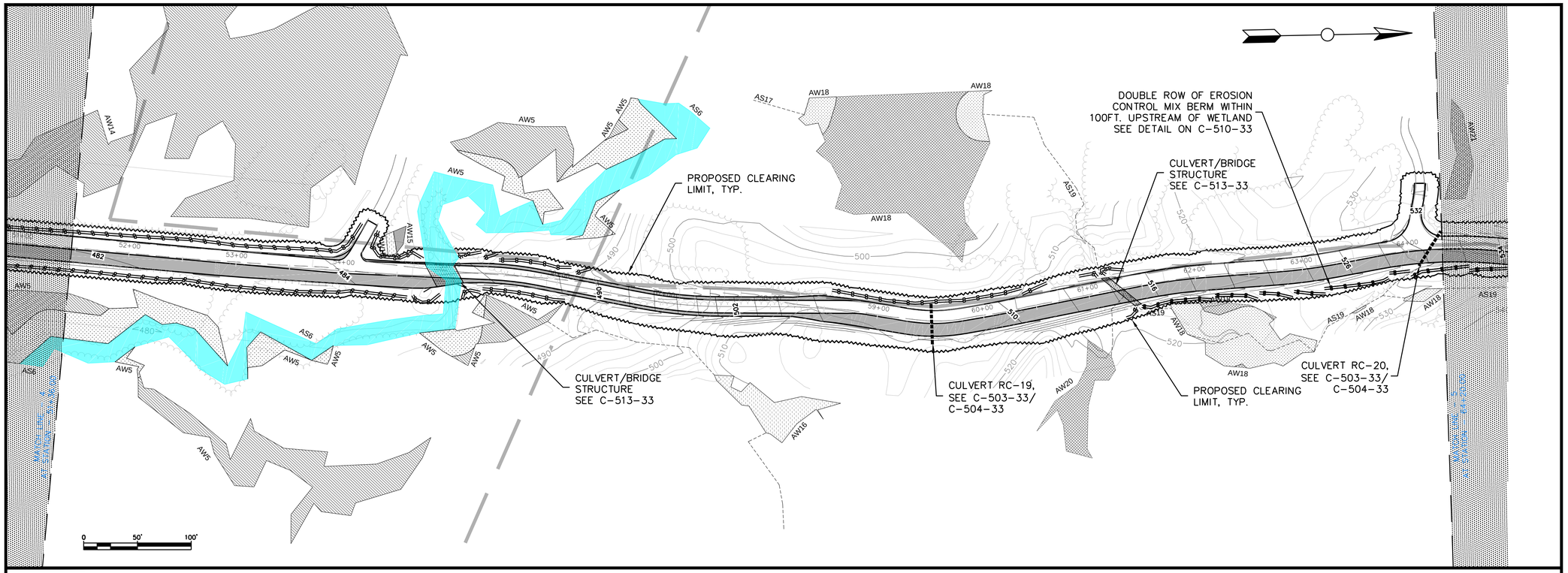
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

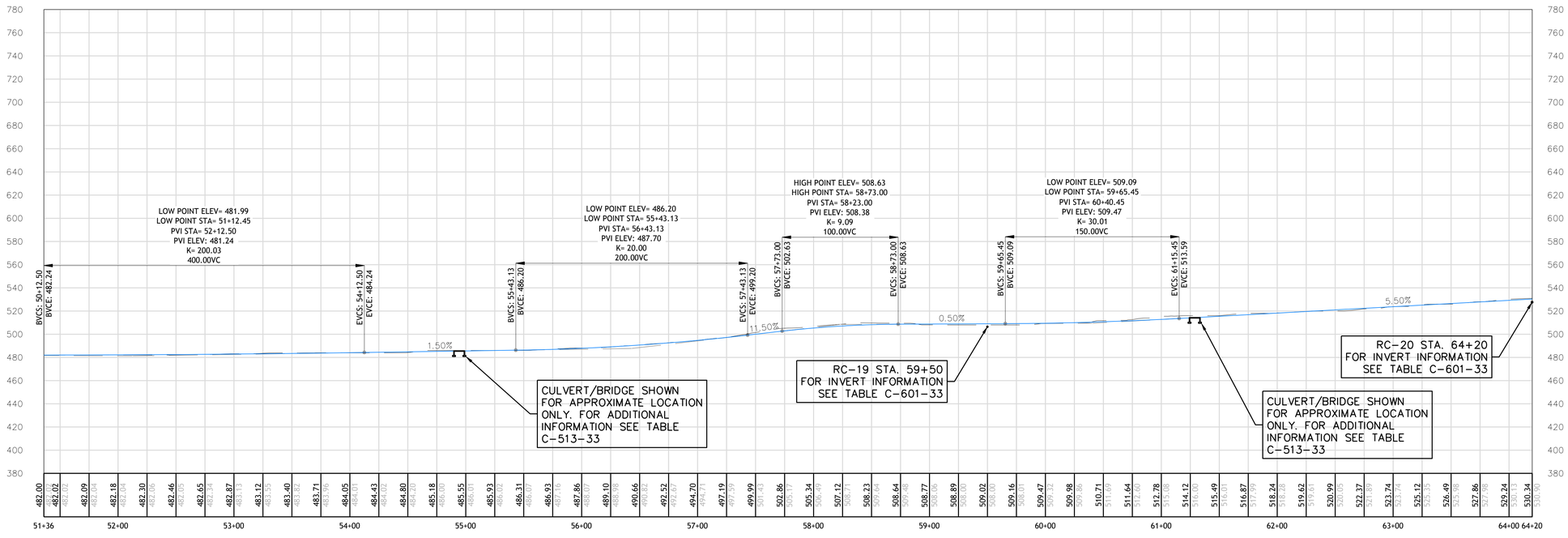
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 8 OF 44

Dwg No.: C-204-33





LUDDEN LANE Profile
Station 51+36.00 To Station 64+20.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.

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6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.

7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE PLAN AND PROFILE

STA. 51+36 TO 64+20

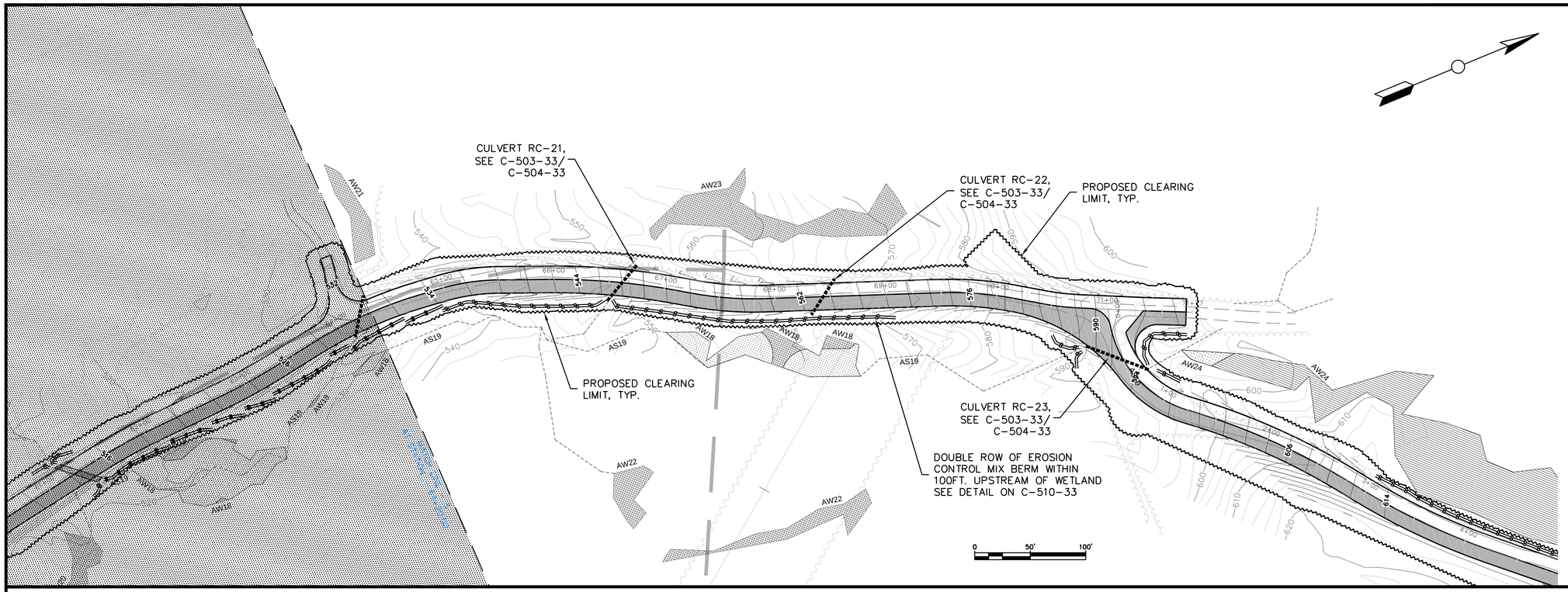
Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

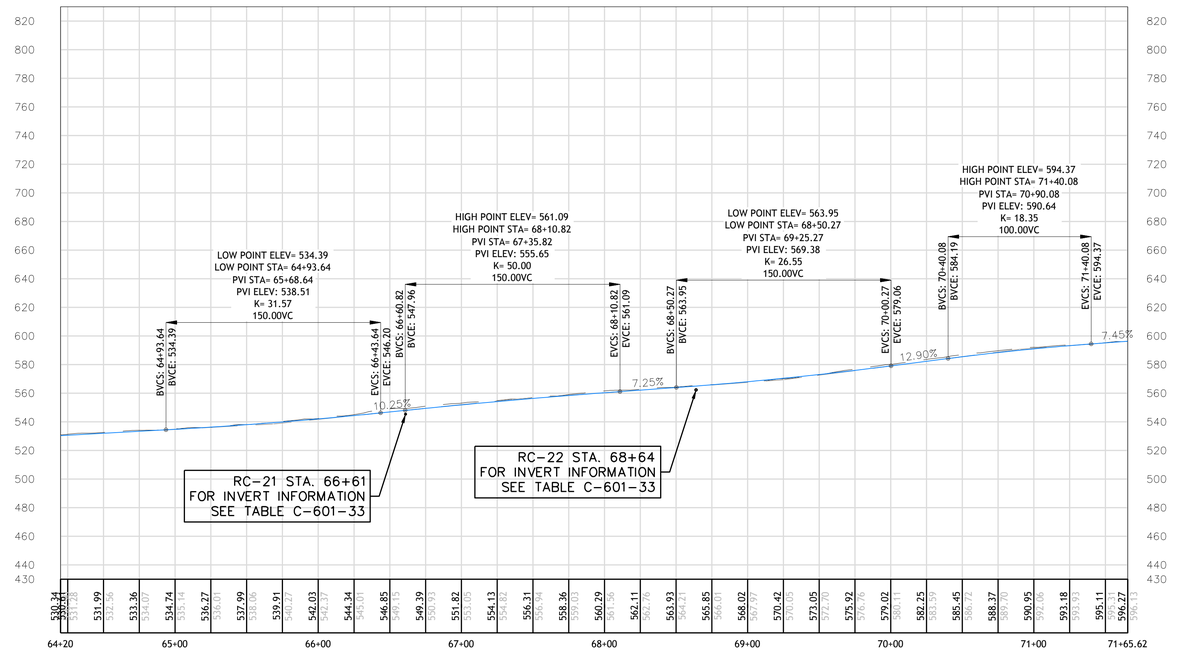
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 9 OF 44

Dwg No.: C-205-33





LUDDEN LANE Profile
Station 64+20.00 To Station 71+65.62

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LUDDEN LANE PLAN AND PROFILE

STA. 64+20 TO 71+65.62

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

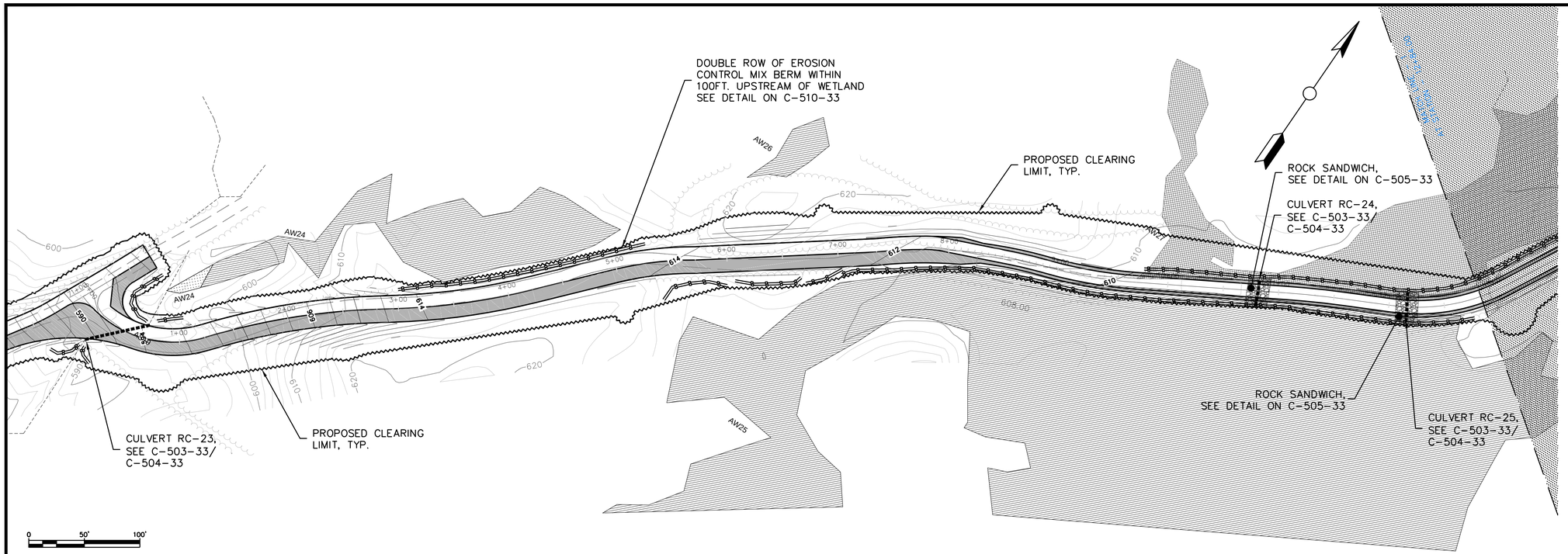
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

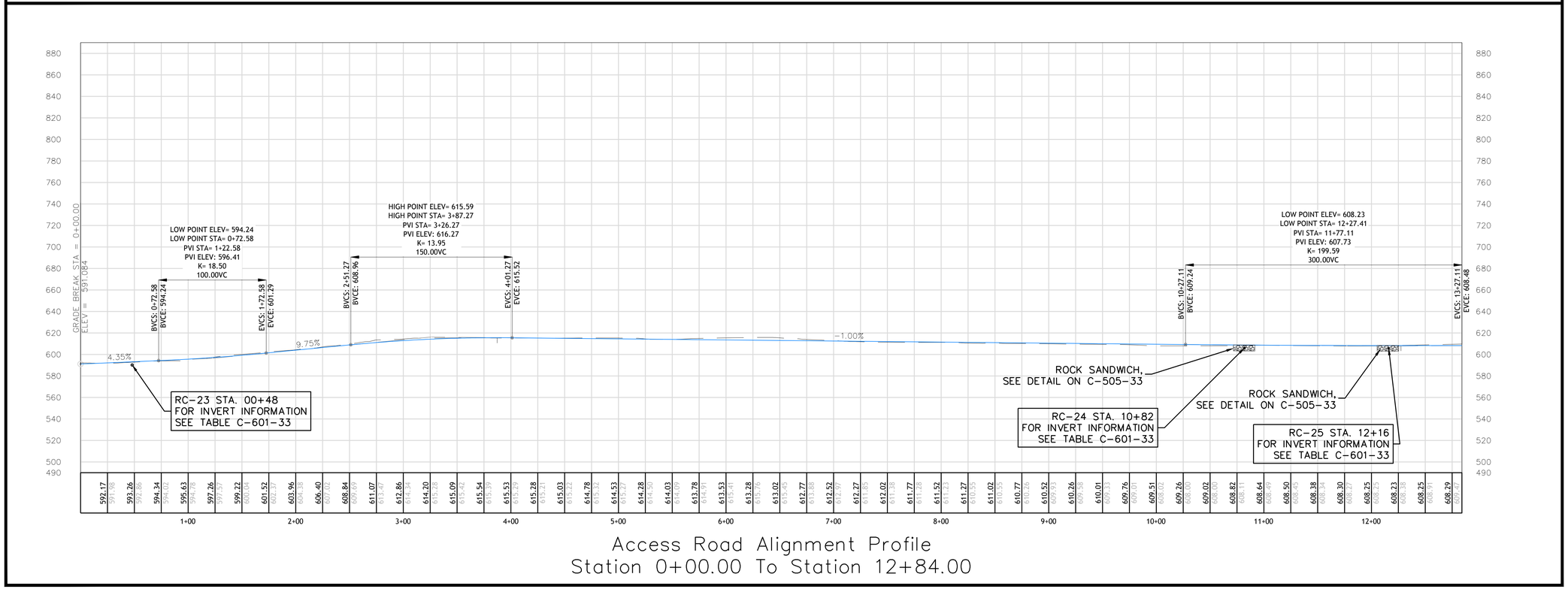
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 10 OF 44

Dwg No.:

C-206-33





Access Road Alignment Profile
Station 0+00.00 To Station 12+84.00

GENERAL NOTES:

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No.	Revision/Issue	Date

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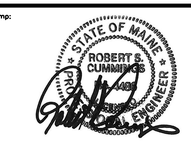
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:



Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 0+00 TO 12+84

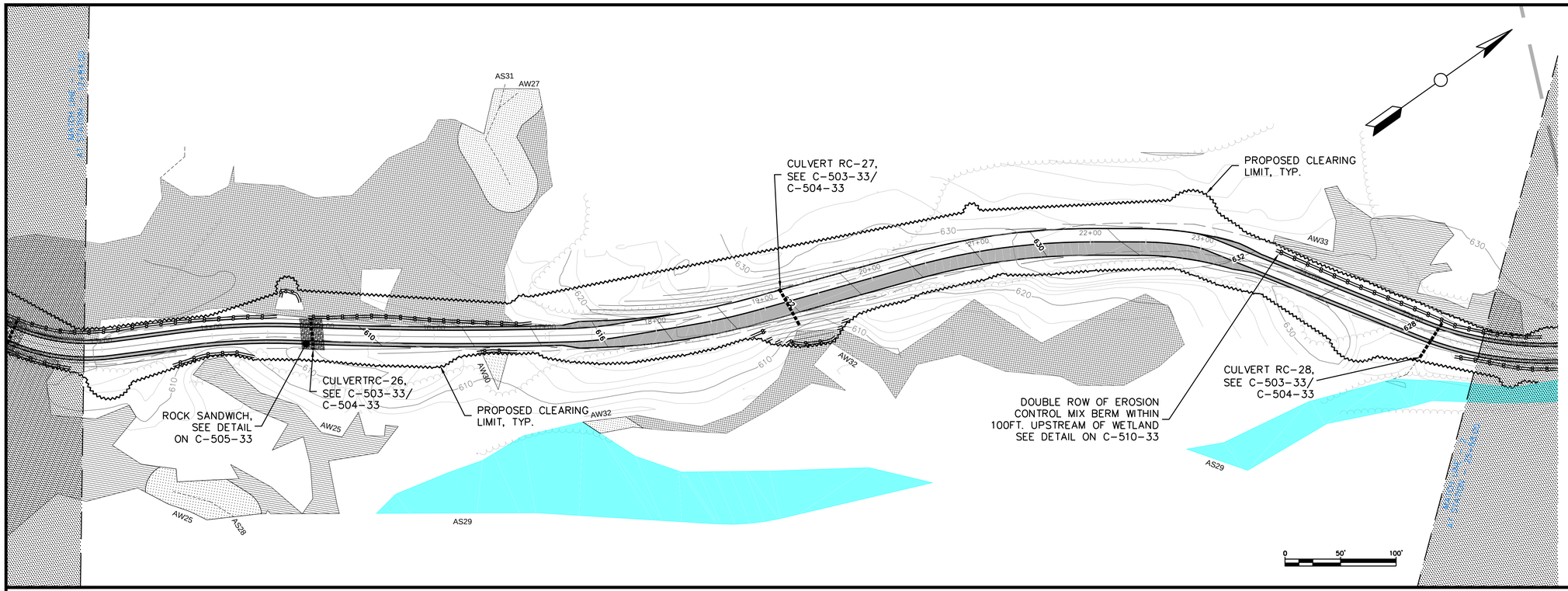
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

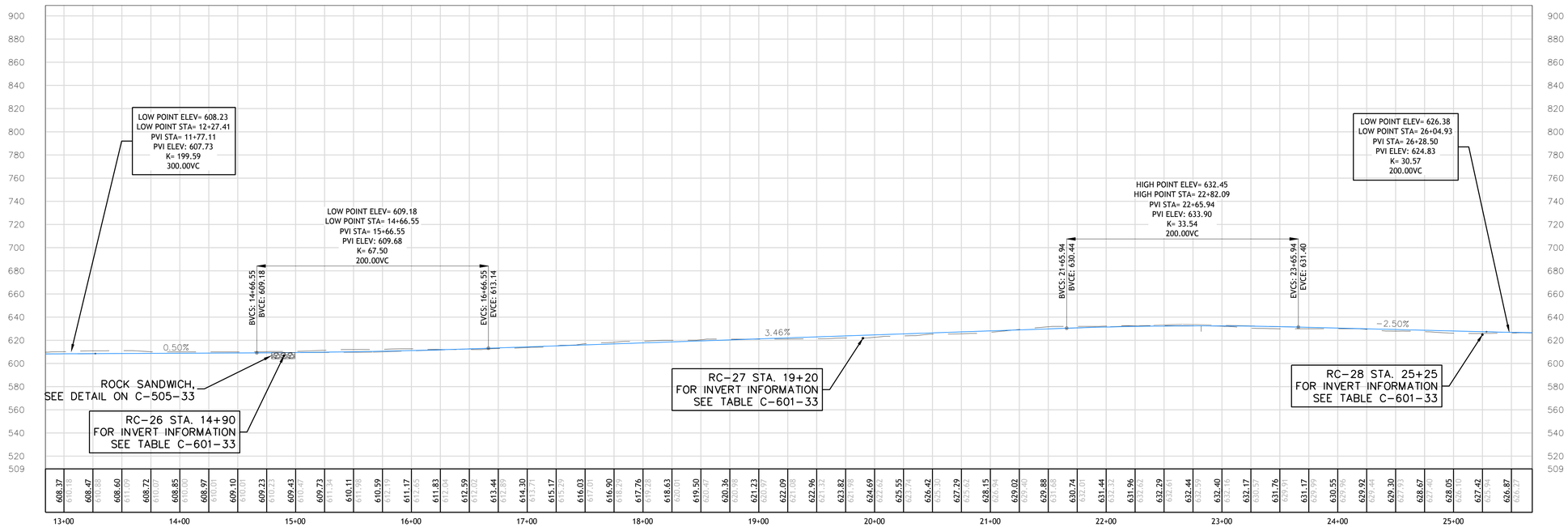
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 11 OF 60

Dwg No.: C-207-33





Access Road Alignment Profile
Station 12+84.00 To Station 25+68.00

GENERAL NOTES:

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No.	Revision/Issue	Date

PATRIOT RENEWABLES
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 12+84 TO 25+68

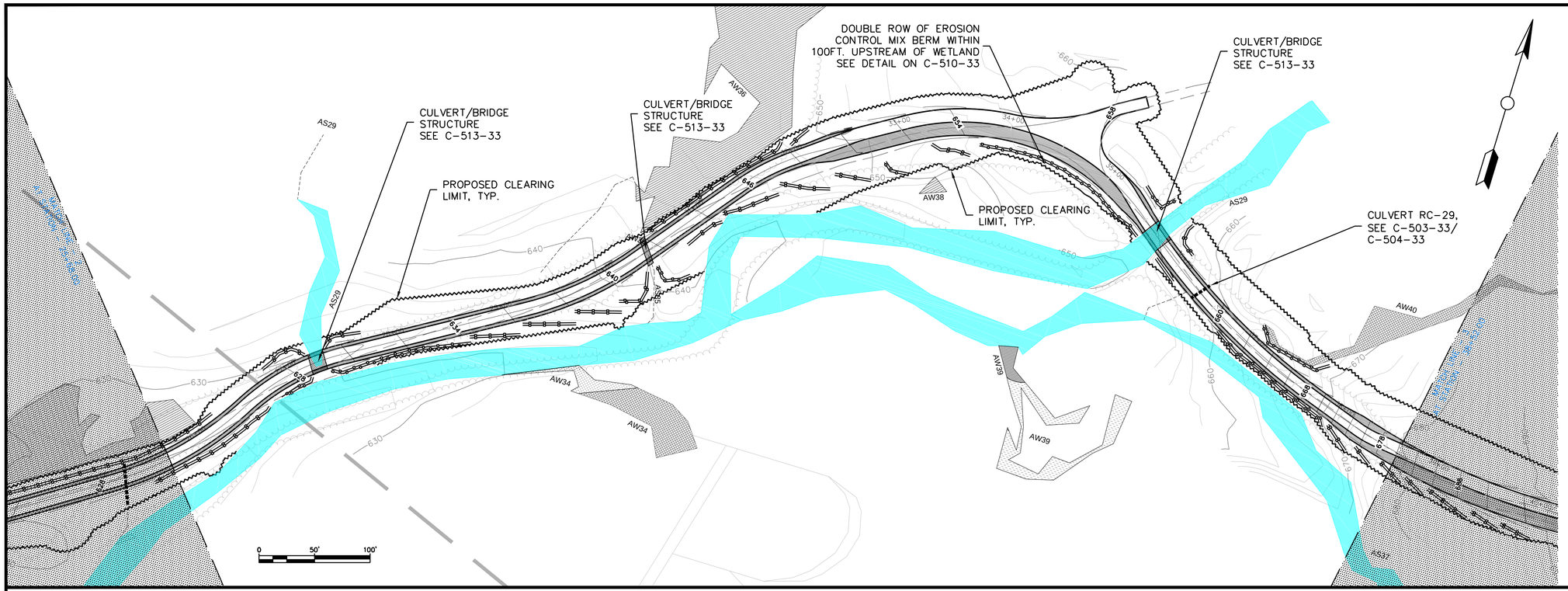
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

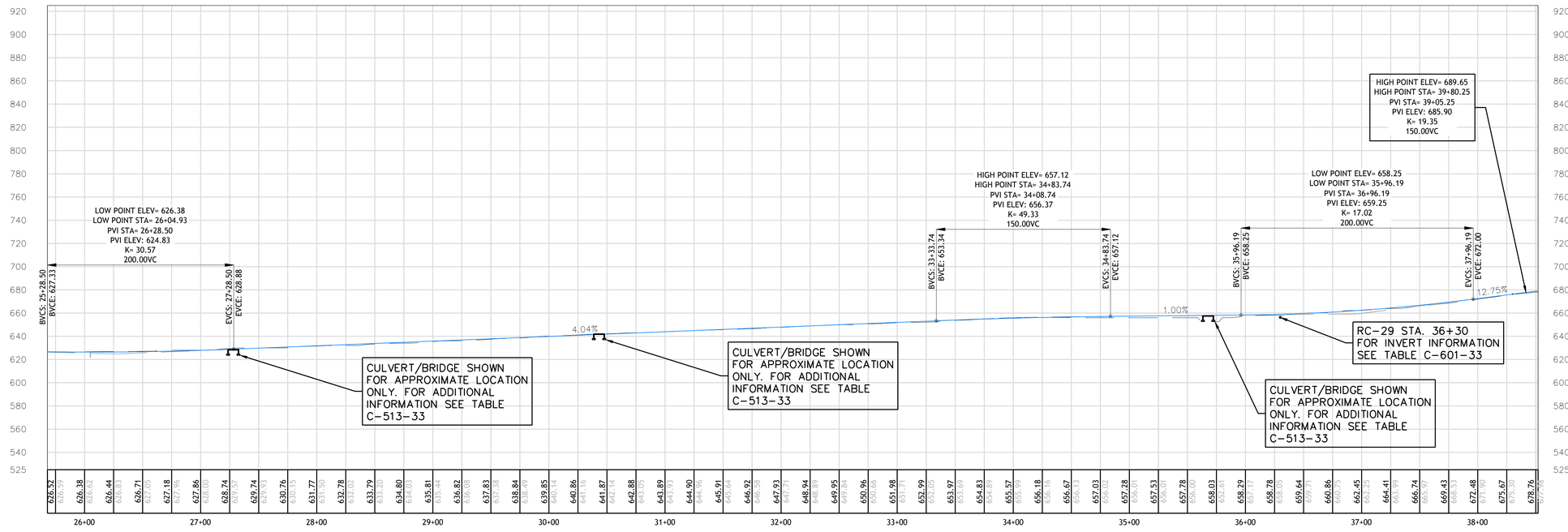
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 12 OF 44

Dwg No.: C-208-33





Access Road Alignment Profile
Station 25+68.00 To Station 38+52.00

GENERAL NOTES:

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No.	Revision/Issue	Date

PATRIOT RENEWABLES
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 25+68 TO 38+52

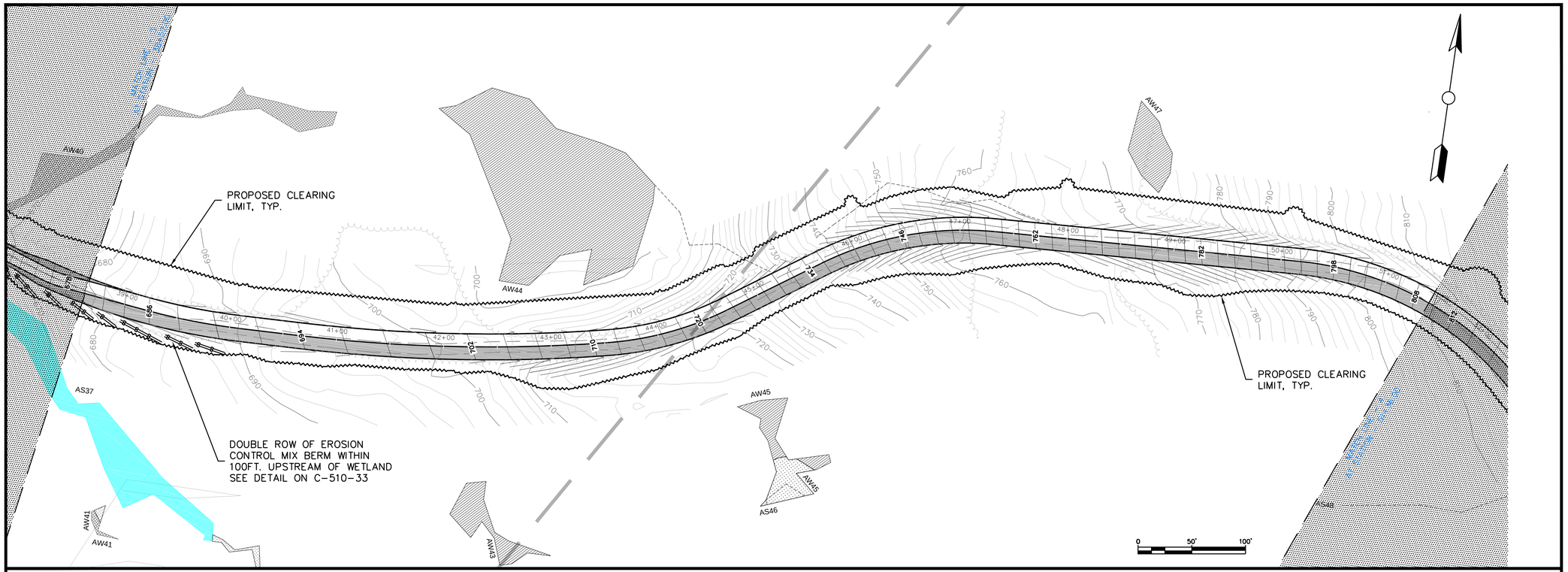
Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

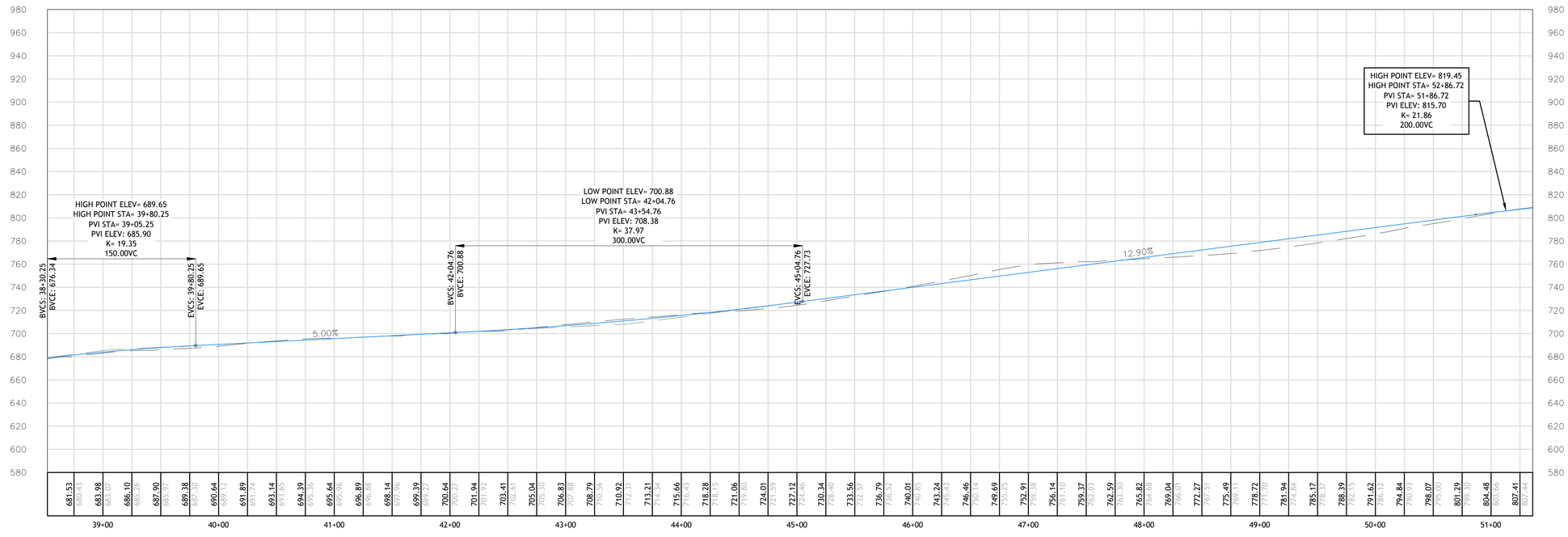
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 13 OF 44

Dwg No.: C-209-33





Access Road Alignment Profile
Station 38+52.00 To Station 51+36.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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PATRIOT RENEWABLES
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 38+52 TO 51+36

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

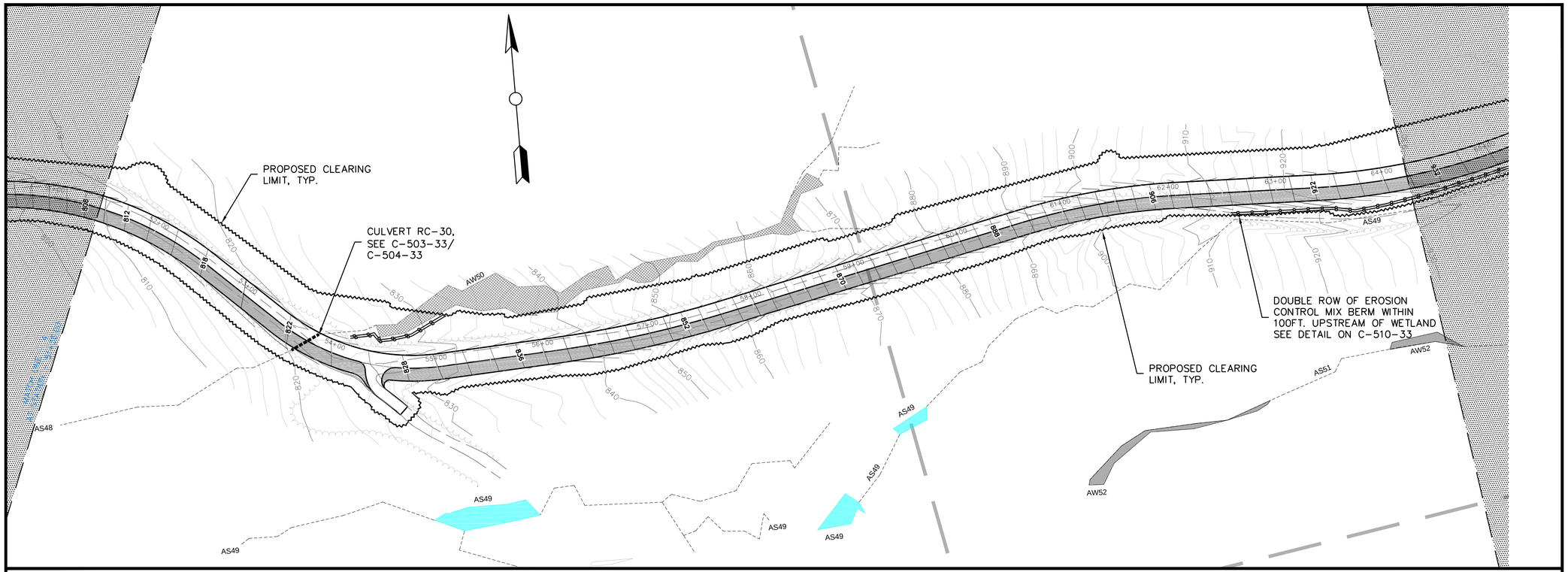
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

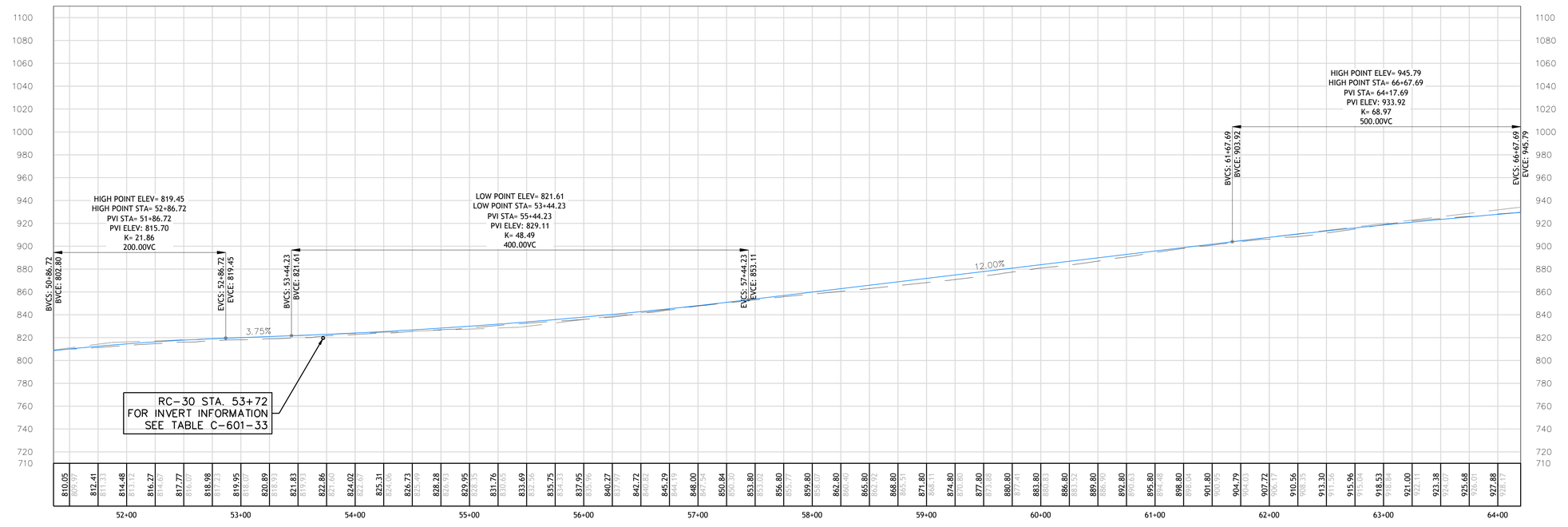
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 14 OF 44

Dwg No.:

C-210-33





Access Road Alignment Profile
Station 51+36.00 To Station 64+20.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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TEL:(508) 763-8800 FAX (508) 763-2020

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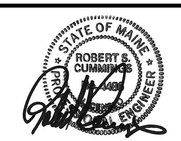


Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 51+36 TO 64+20

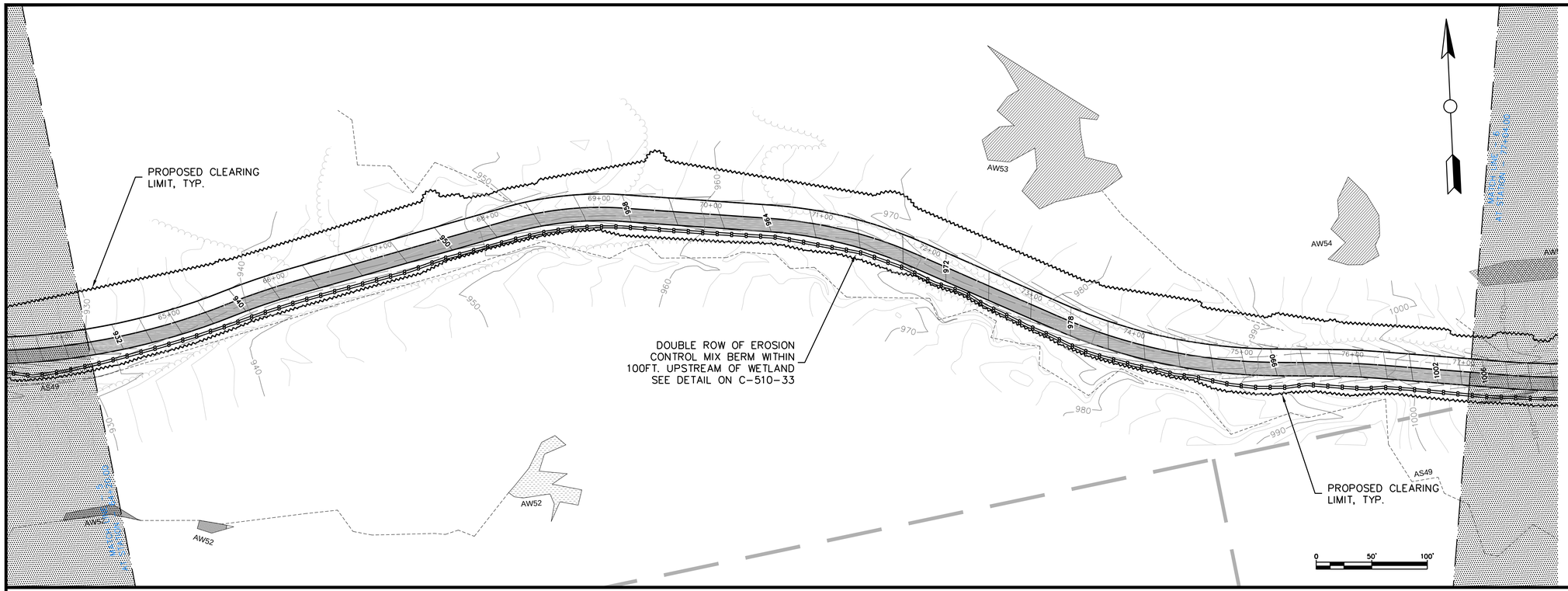
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

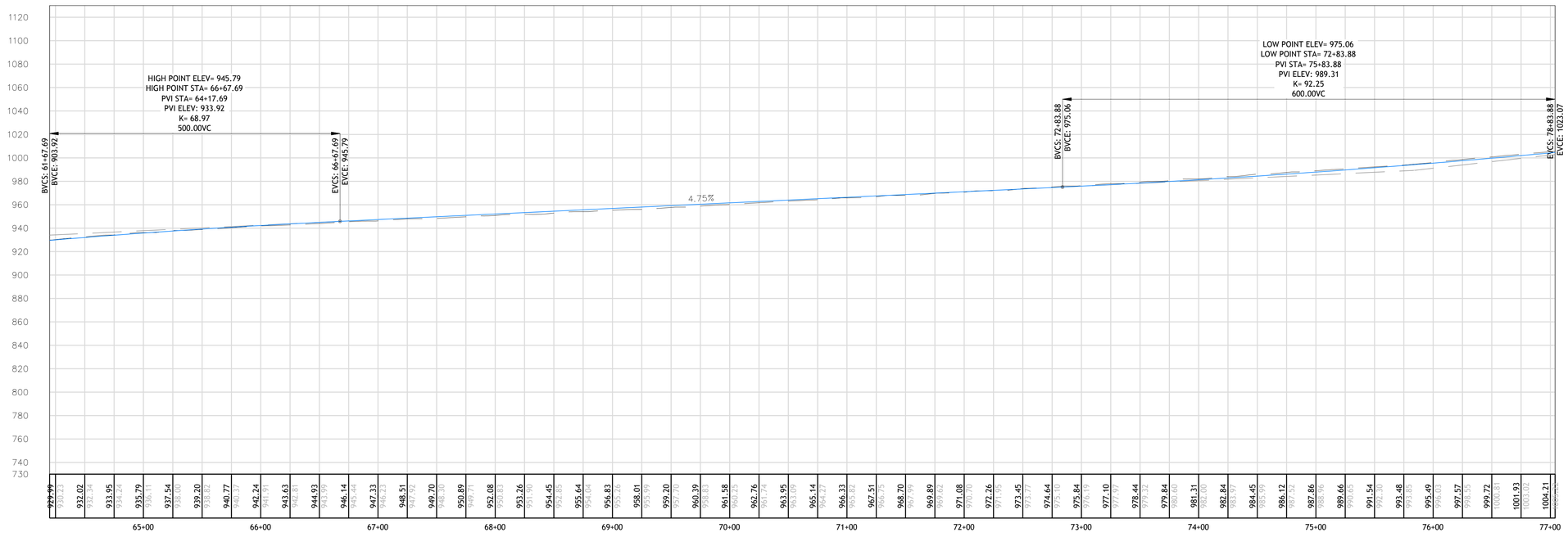
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 15 OF 44

Dwg No.: C-211-33





Access Road Alignment Profile
Station 64+20.00 To Station 77+04.00

GENERAL NOTES:

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PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 64+20 TO 77+04

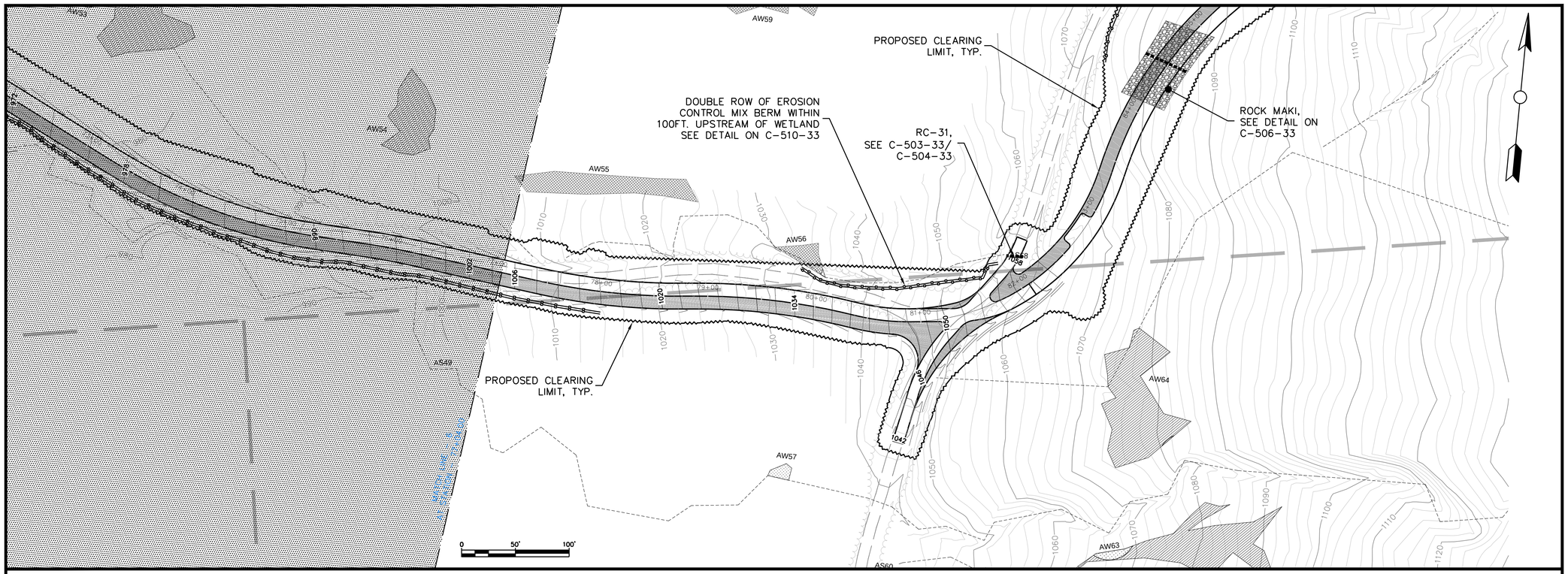
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

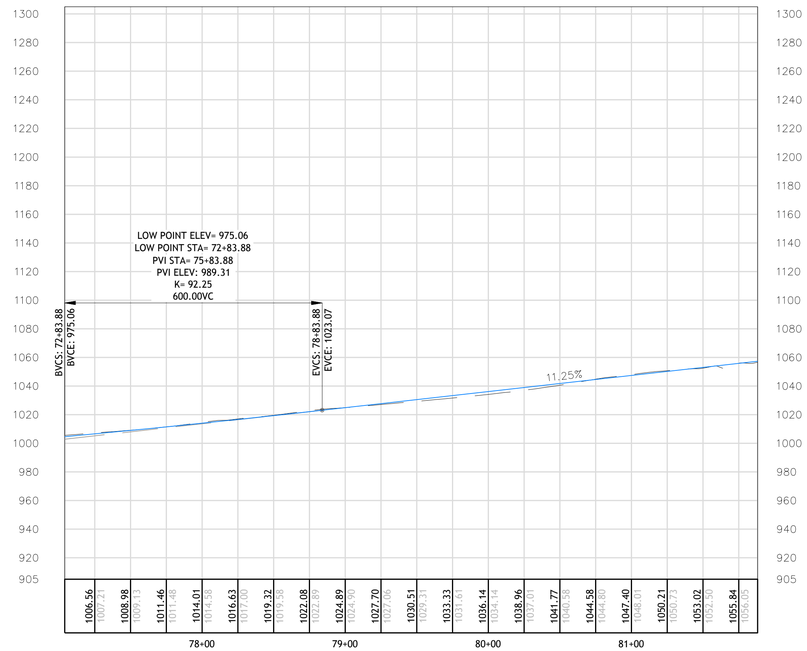
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 16 OF 44

Dwg No.: C-212-33





Access Road Alignment Profile
Station 77+04.00 To Station 81+88.14

GENERAL NOTES:

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No.	Revision/Issue	Date

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TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LOGGING ROAD PLAN AND PROFILE

STA. 77+04 TO 81+88.14

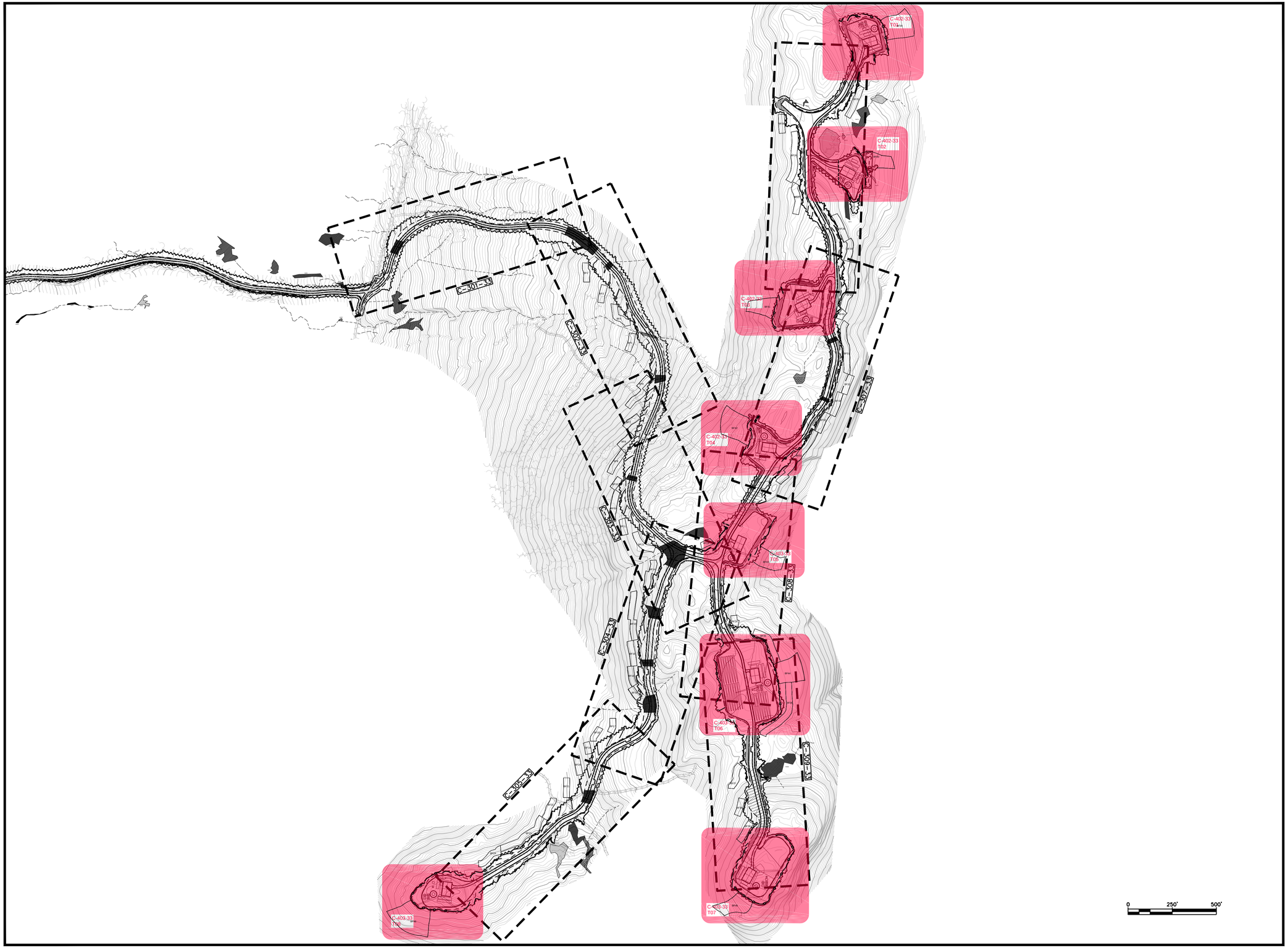
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 17 OF 44

Dwg No.: C-213-33



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Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

ACCESS ROAD AND CRANE ROADS

INDEX SHEET

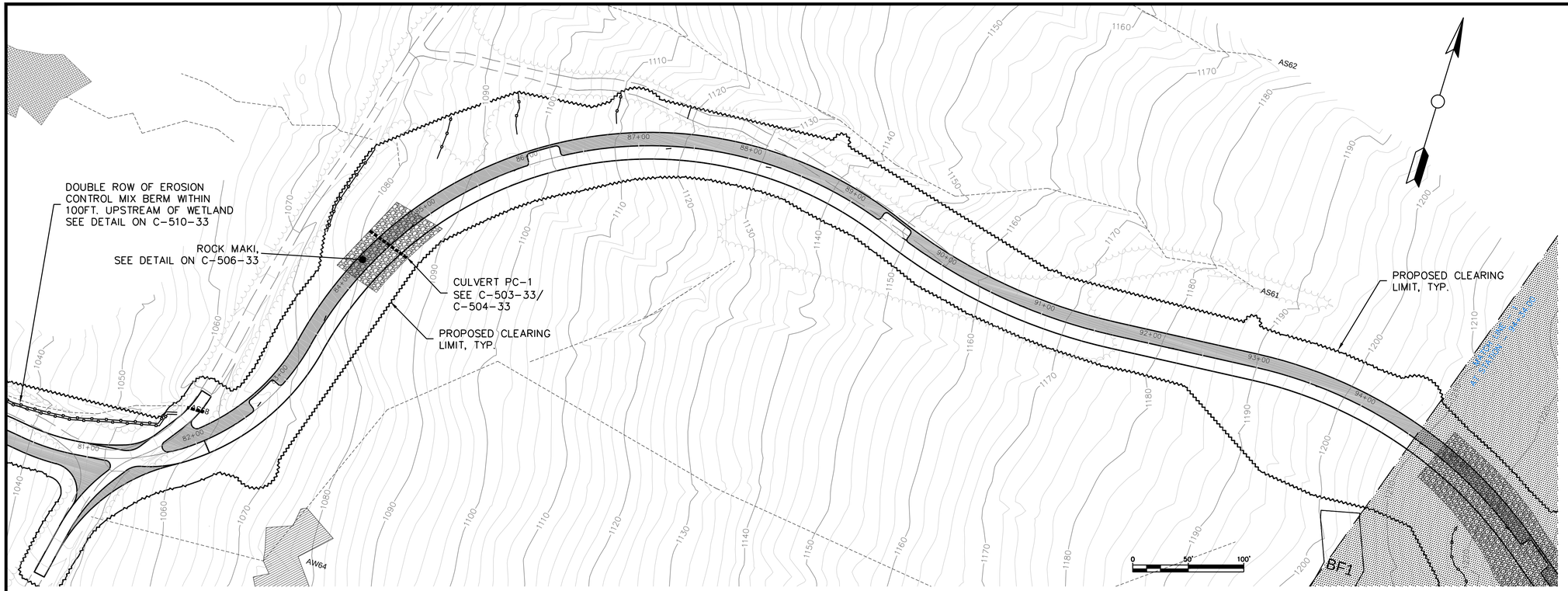
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

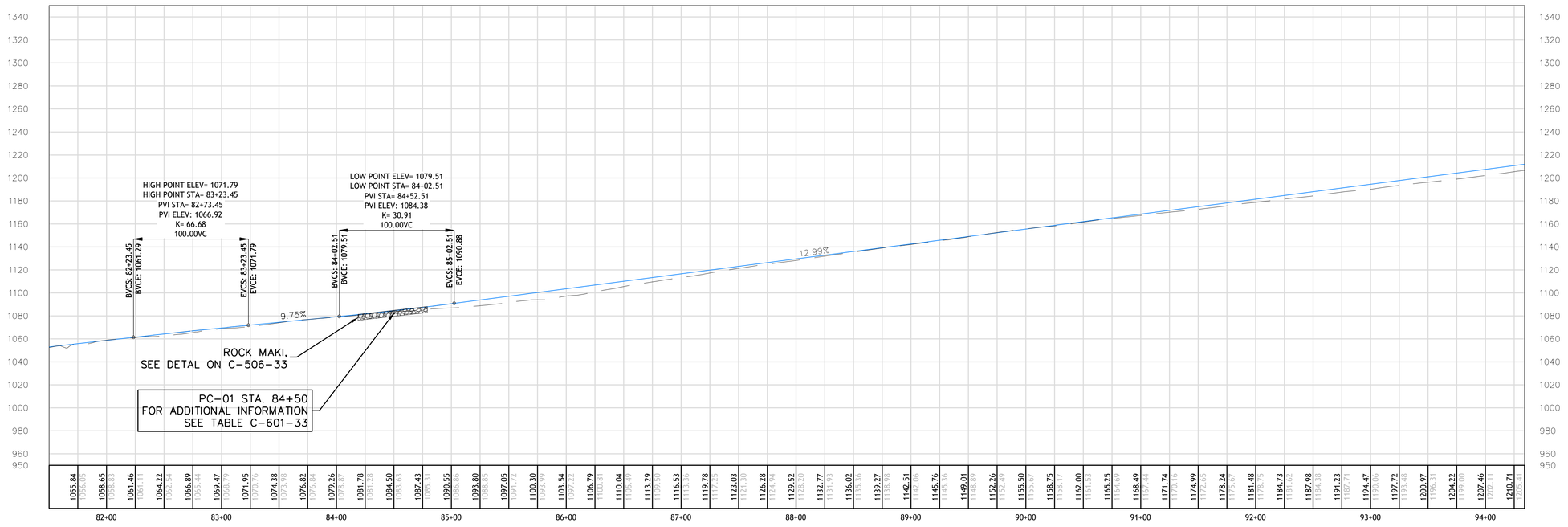
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 18 OF 44

Dwg No.: C-300-33





Access Road Alignment Profile
Station 81+50.00 To Station 94+34.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

4. EXISITNG TOPOGRAPHIC AND PLANNNIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY. INC.

5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.

6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.

7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

ACCESS ROAD PLAN AND PROFILE

STA. 81+50 TO 94+34

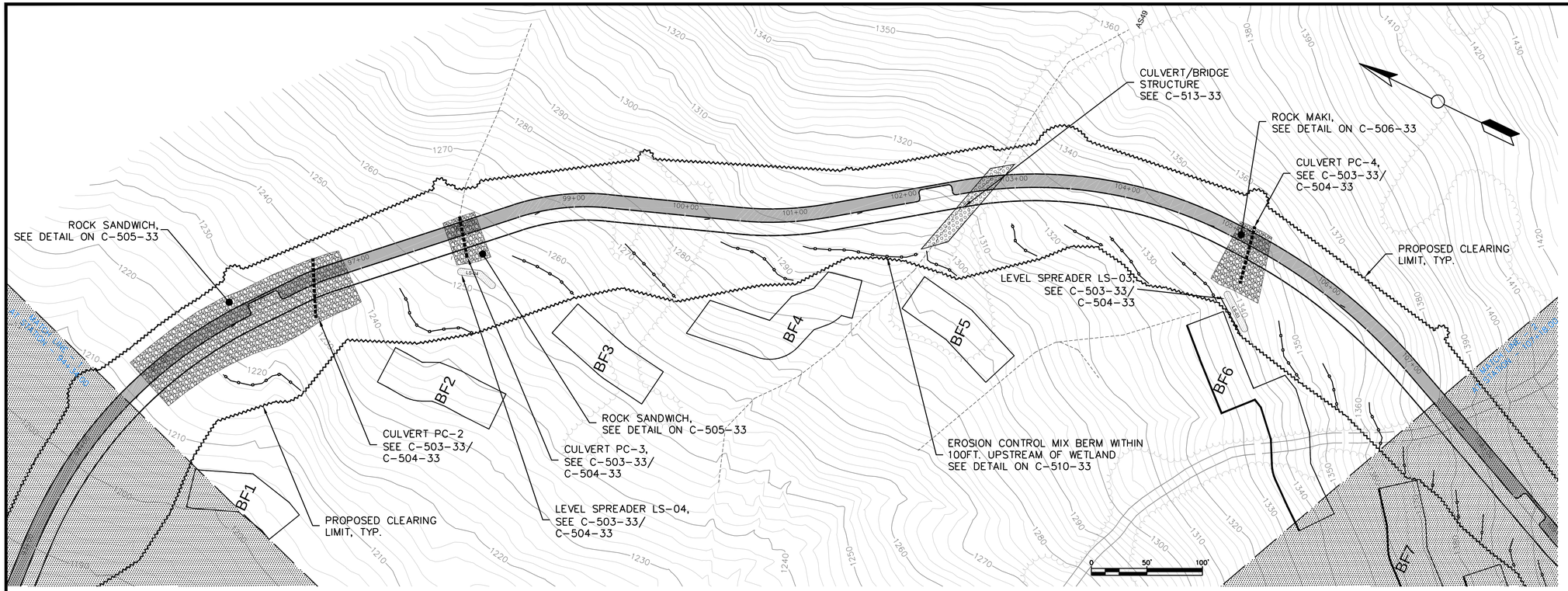
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

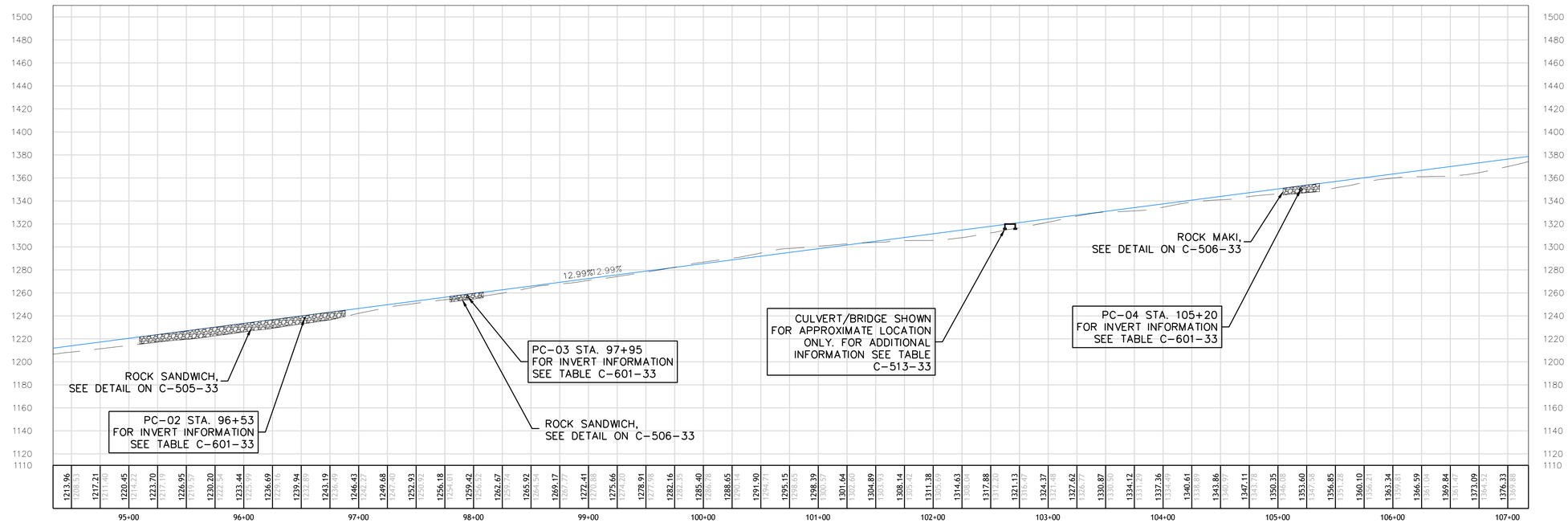
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 19 OF 44

Dwg No.: C-301-33





Access Road Alignment Profile
Station 94+34.00 To Station 107+18.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

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EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

ACCESS ROAD PLAN AND PROFILE

STA. 94+34 TO 107+18

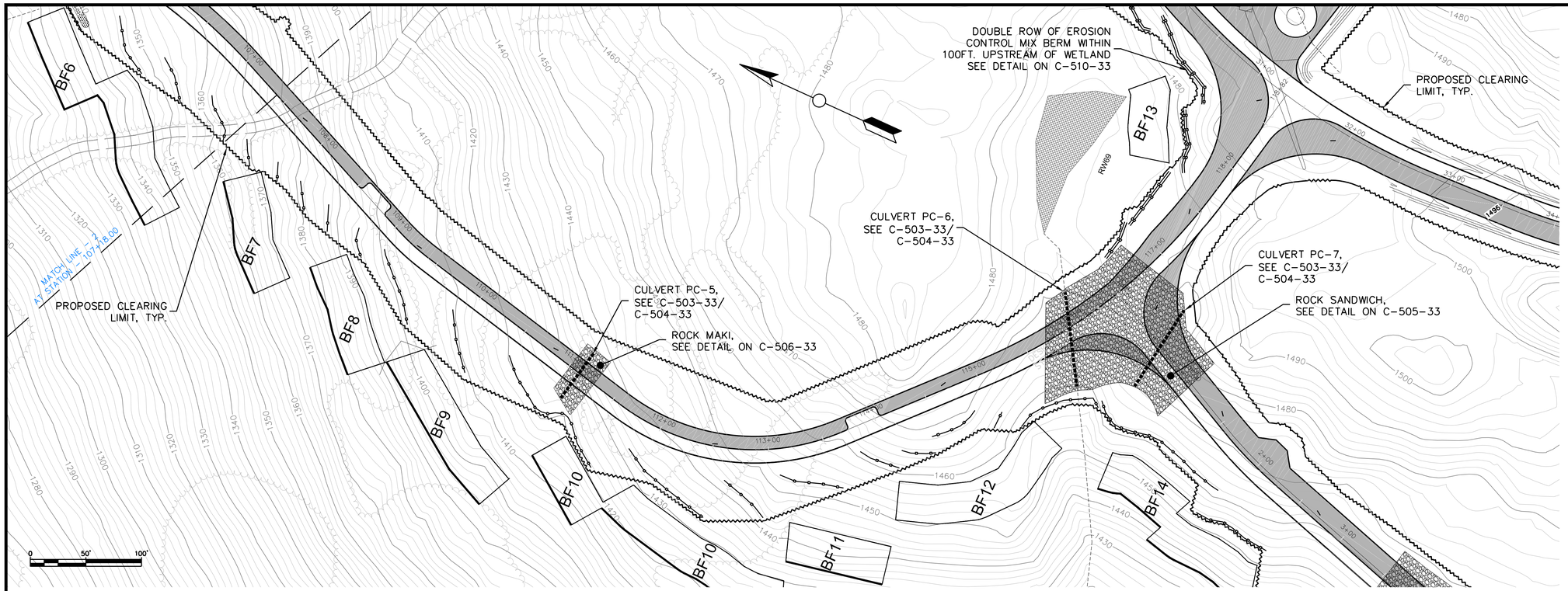
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

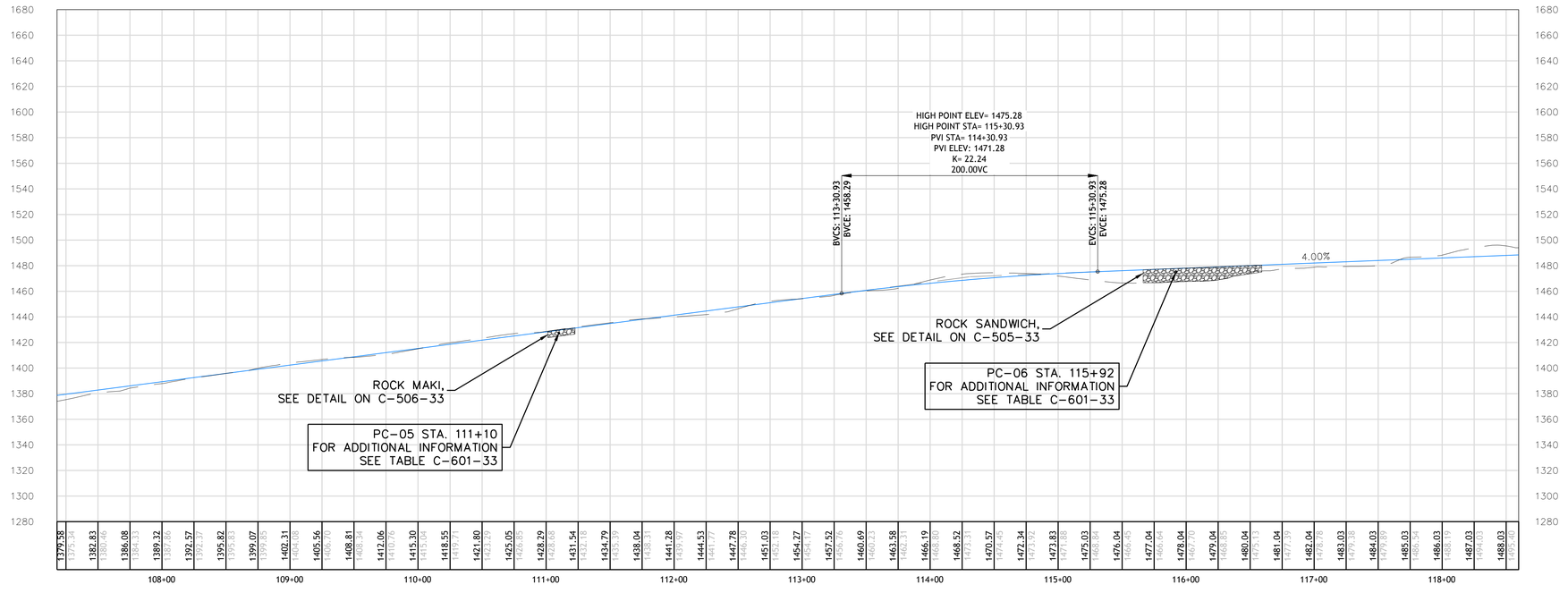
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 20 OF 44

Dwg No.: C-302-33





Access Road Alignment Profile
Station 107+18.00 To Station 118+59.75

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

ACCESS ROAD PLAN AND PROFILE

STA. 107+18 TO 118+59.75

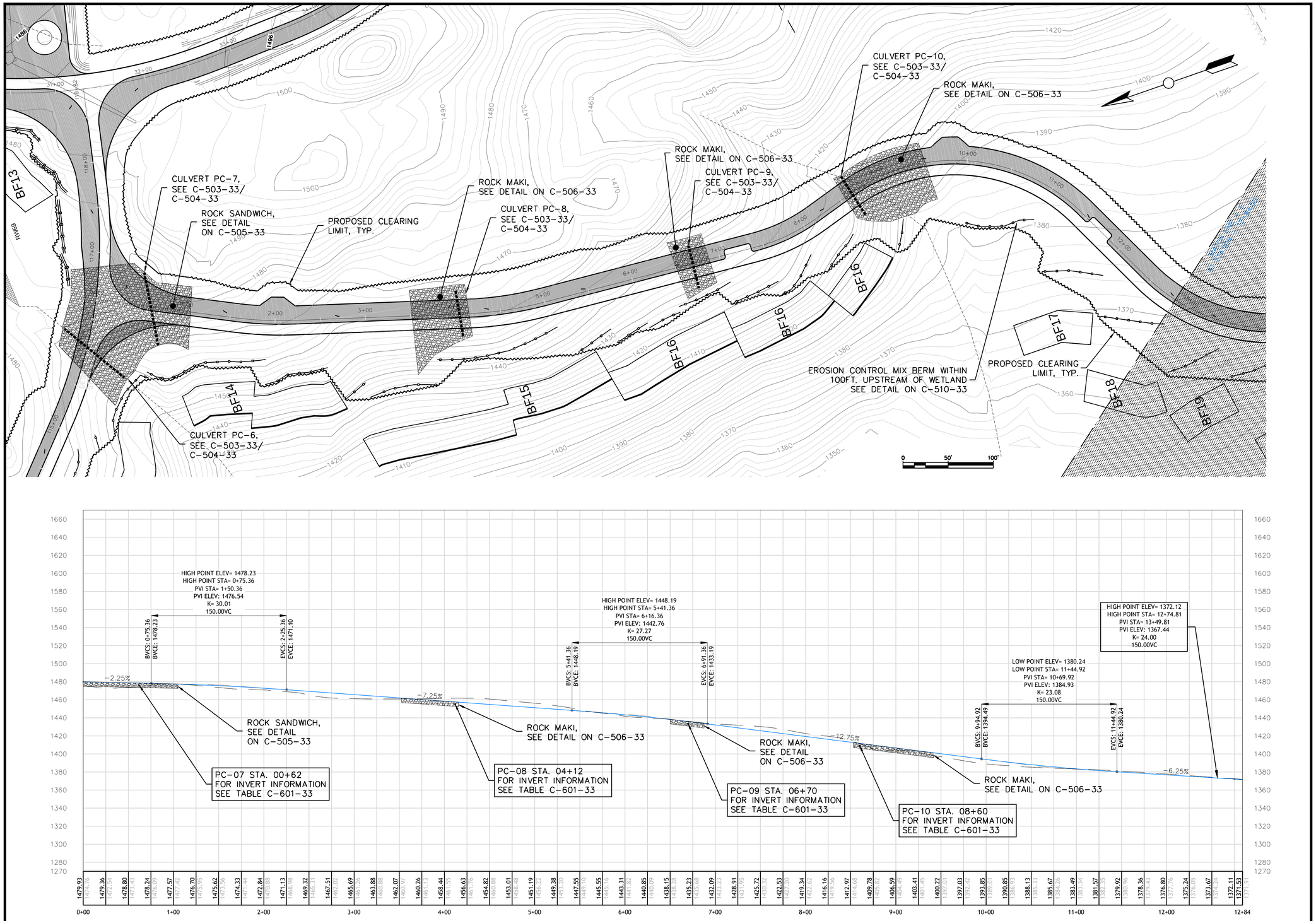
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 21 OF 44

Dwg No.: C-303-33



Lower Ridge Road Alignment Profile
Station 0+00.00 To Station 12+84.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:
STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:
LOWER CRANE ROAD PLAN AND PROFILE

STA. 0+00 TO 12+84

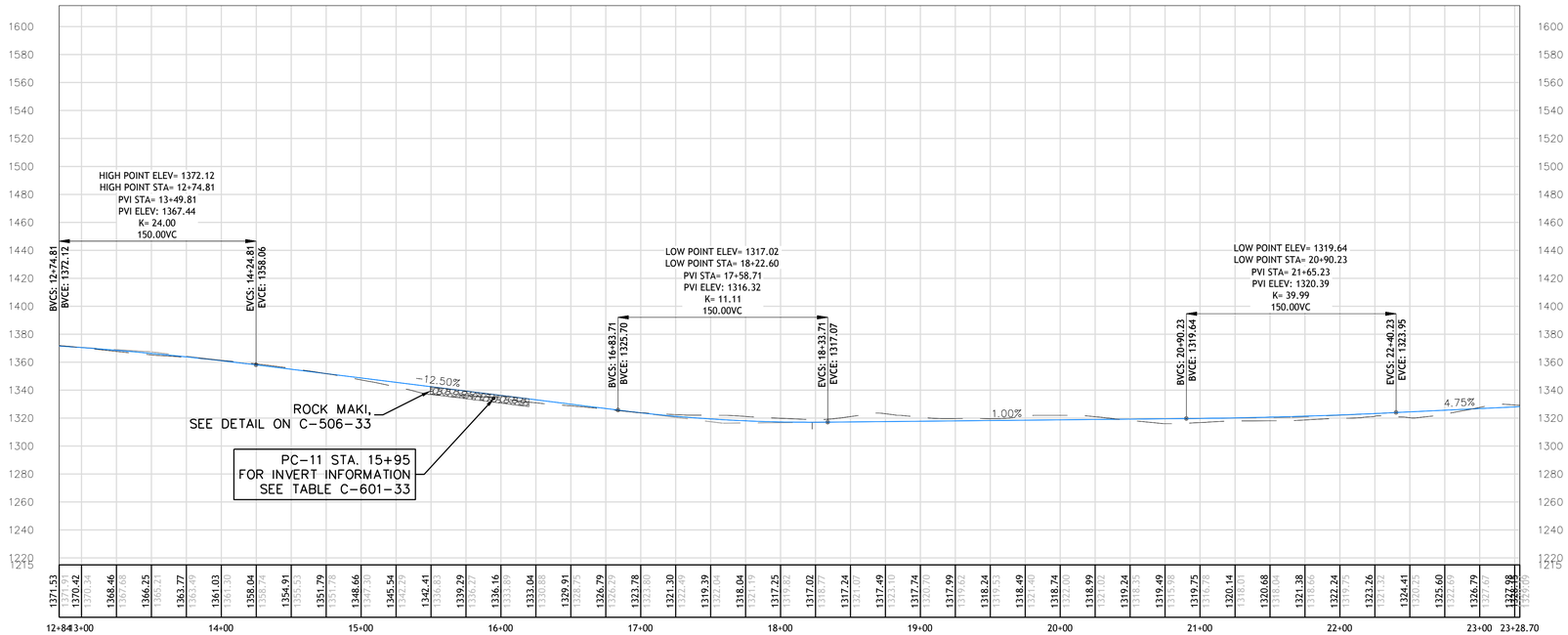
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 22 OF 44

Dwg No.: C-304-33



Lower Ridge Road Alignment Profile
Station 12+84.00 To Station 23+28.70

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

LOWER CRANE ROAD
PLAN AND PROFILE

STA. 12+84 TO 23+28.70

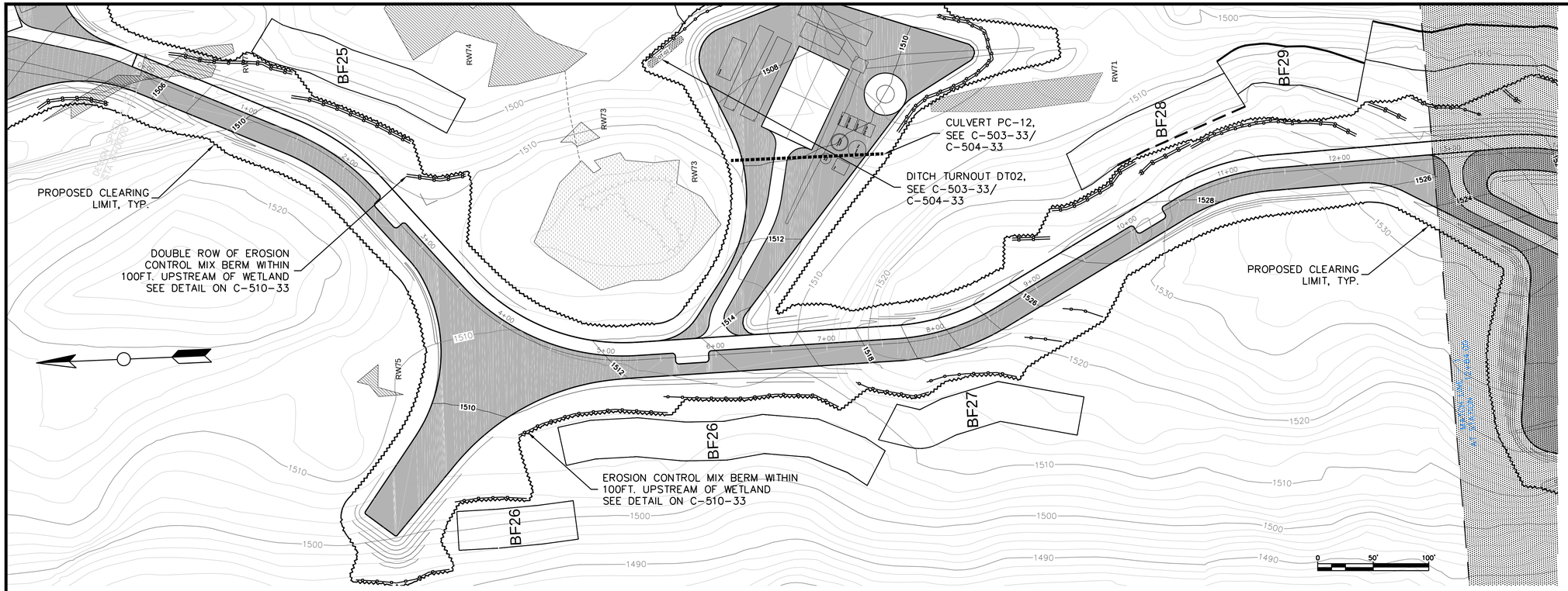
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

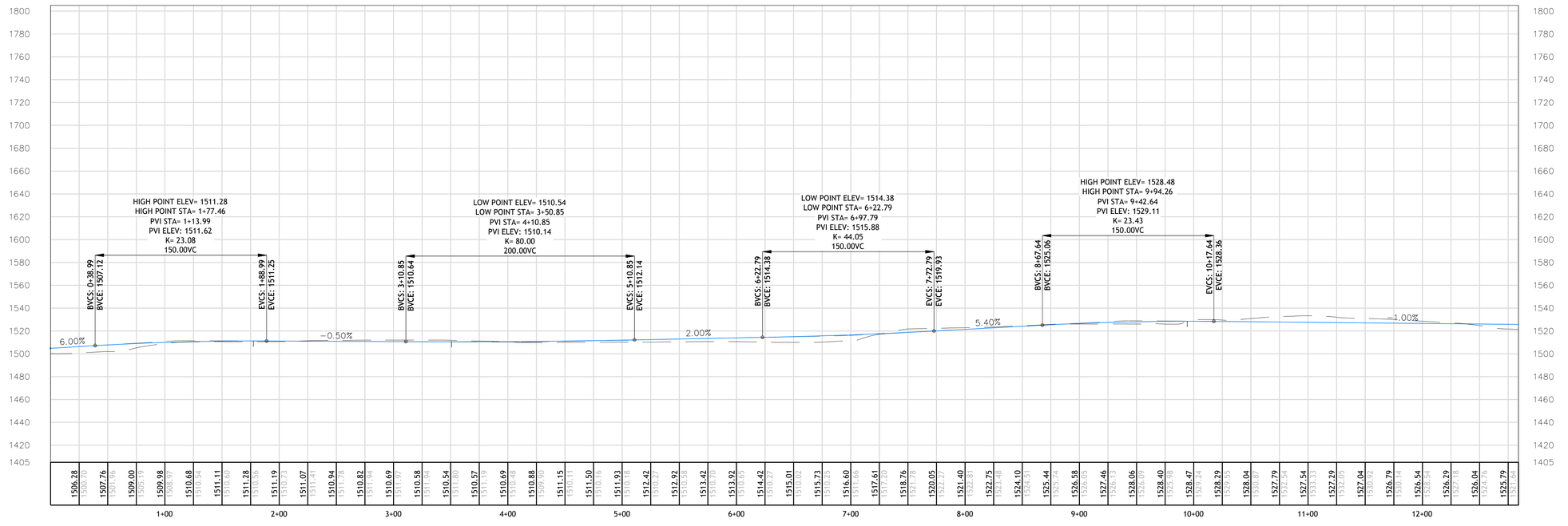
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 23 OF 44

Dwg No.: C-305-33





Ridge Road Alignment Profile
Station 0+00.00 To Station 12+84.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

RIDGE ROAD PLAN AND PROFILE

STA. 0+00 TO 12+84

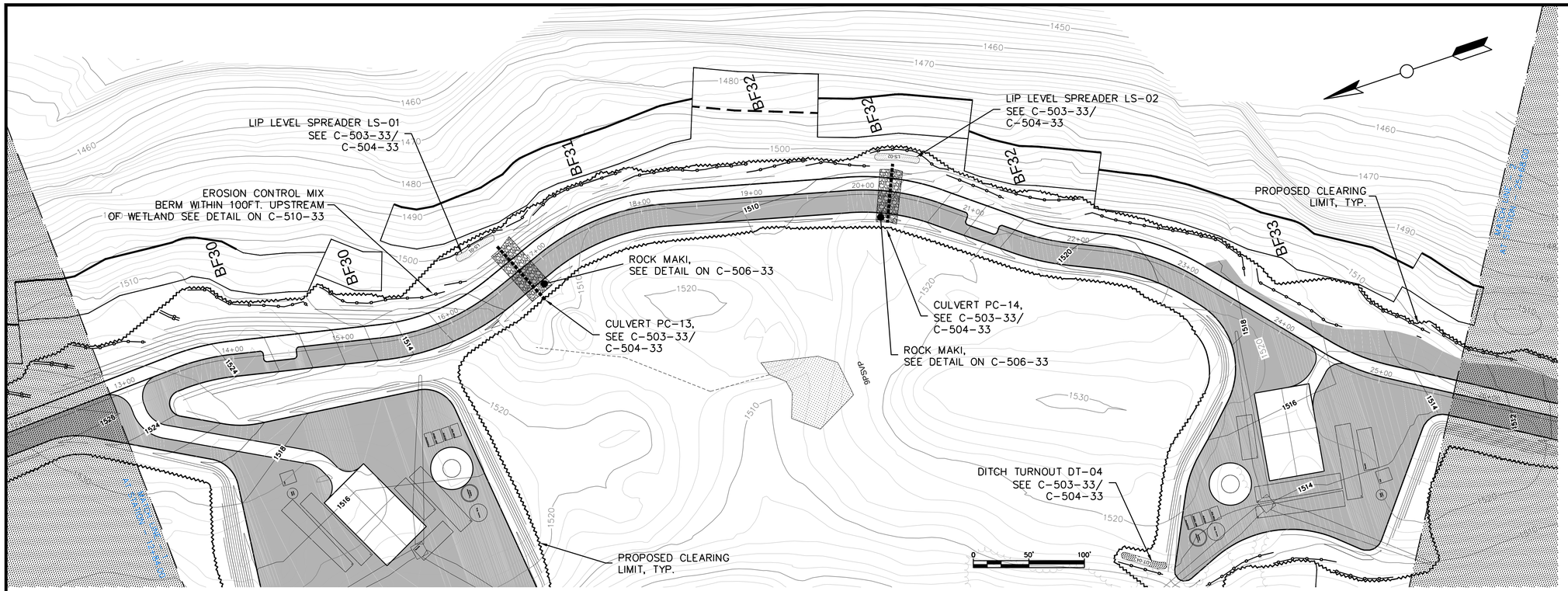
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

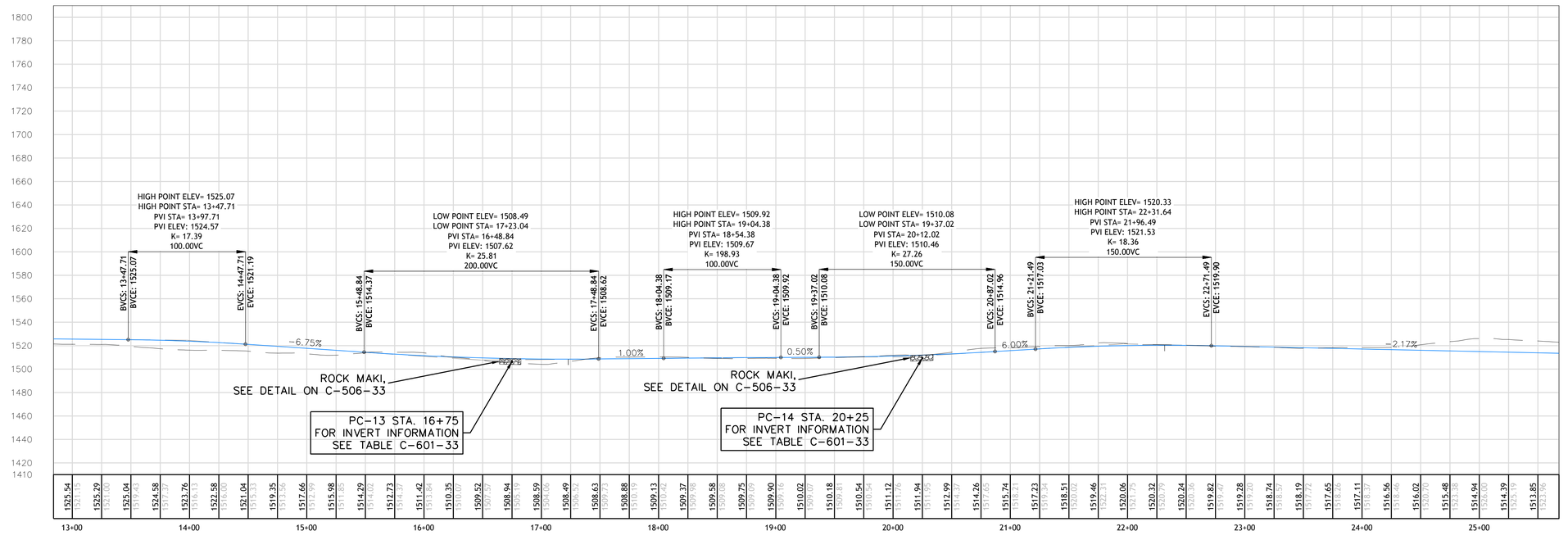
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 24 OF 44

Dwg No.: C-306-33





Ridge Road Alignment Profile
Station 12+84.00 To Station 25+68.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

RIDGE ROAD PLAN AND PROFILE

STA. 12+84 TO 25+68

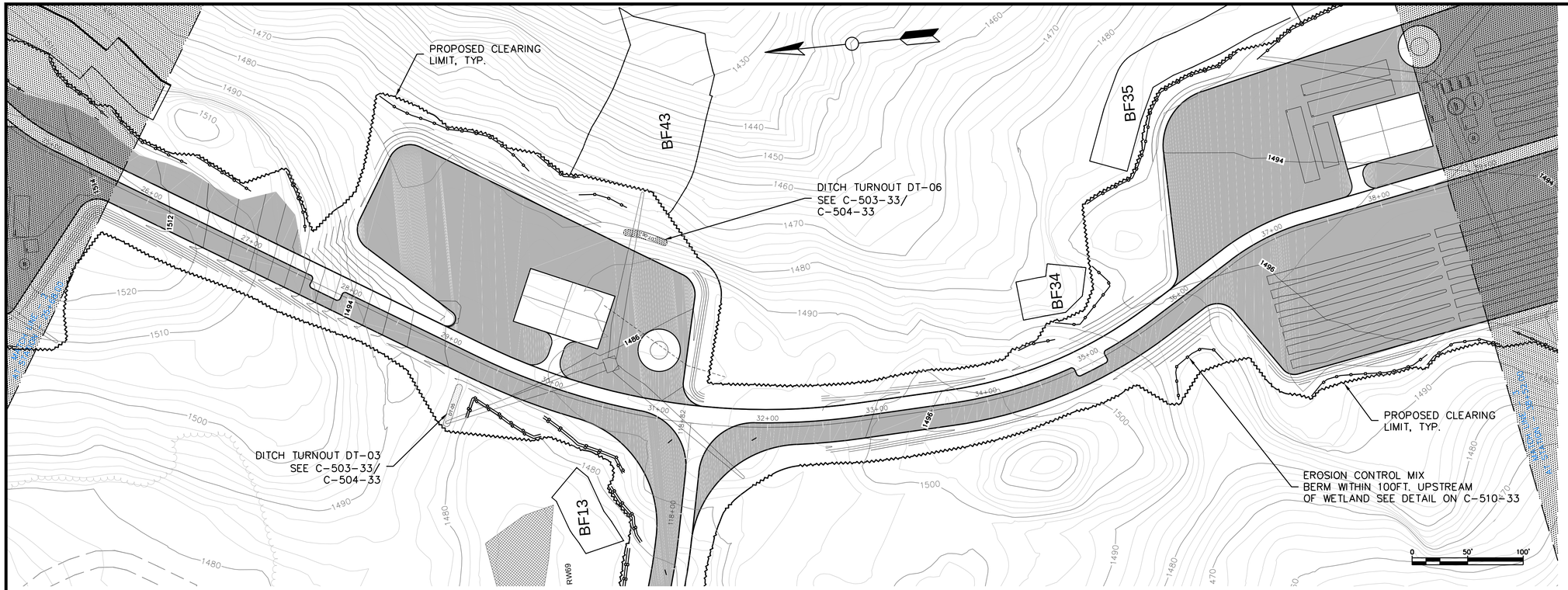
Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

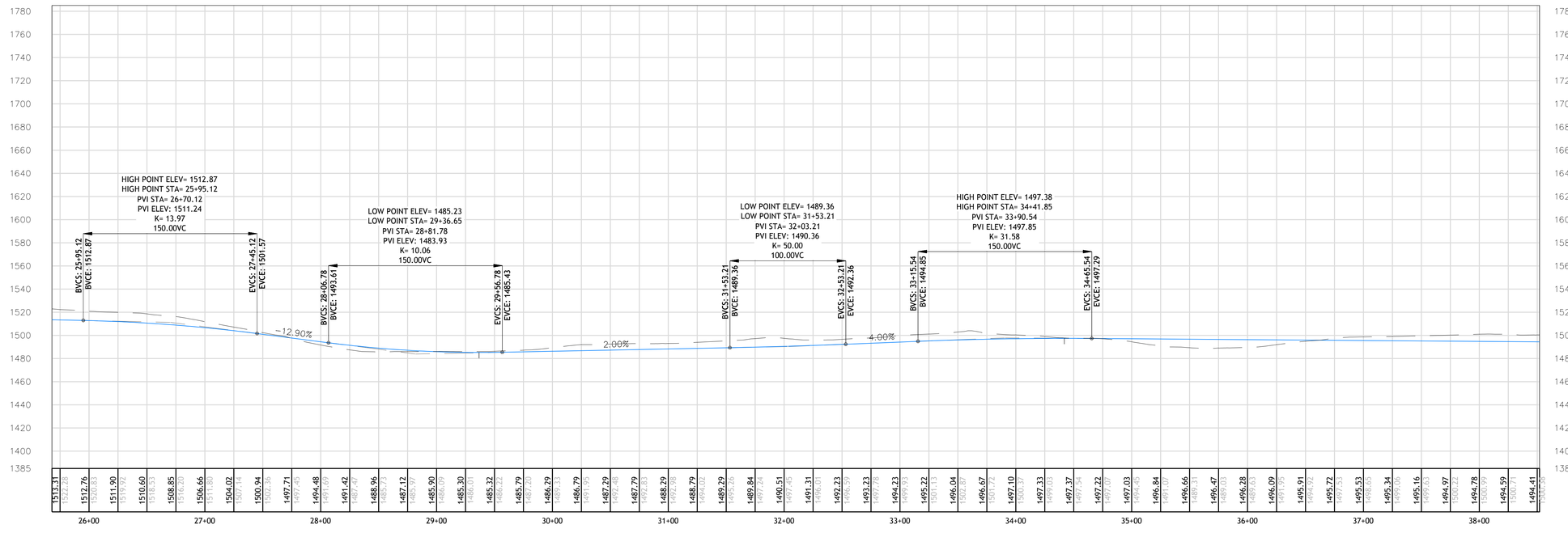
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 25 OF 44

Dwg No.: C-307-33





Ridge Road Alignment Profile
Station 25+68.00 To Station 38+52.00

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

RIDGE ROAD PLAN AND PROFILE

STA. 25+68 TO 38+52

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

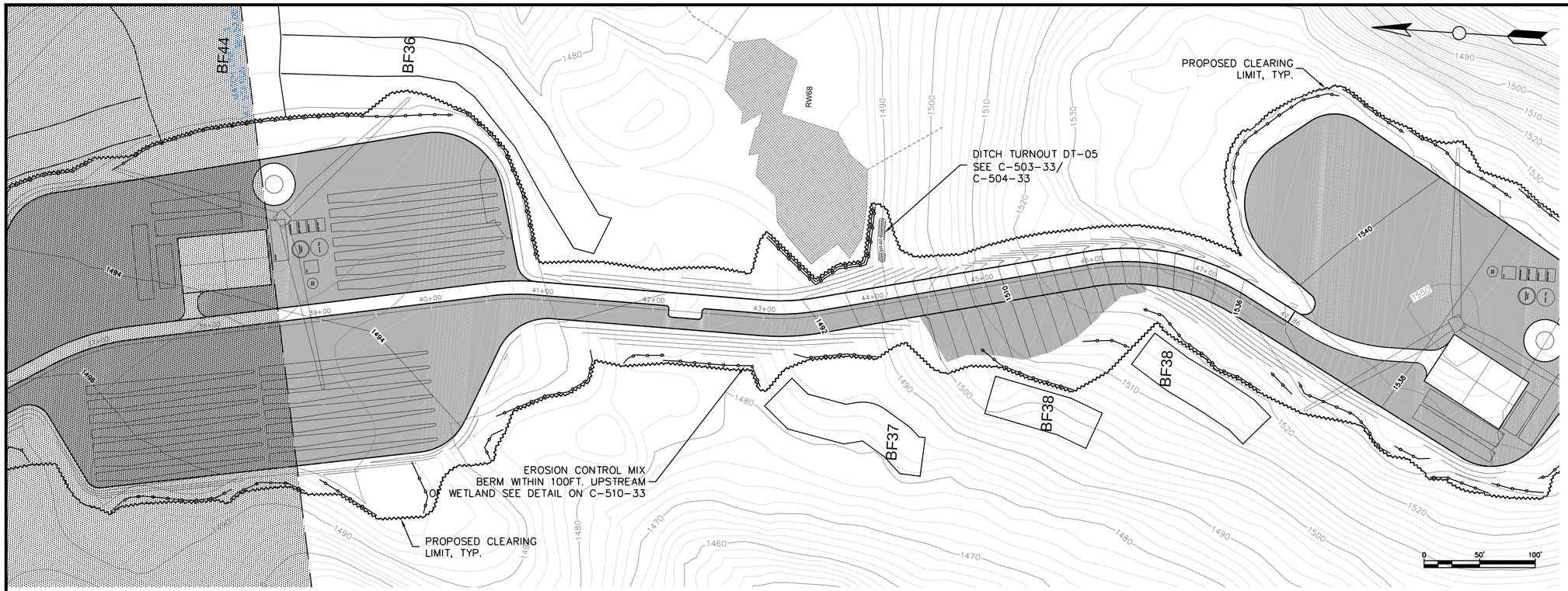
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

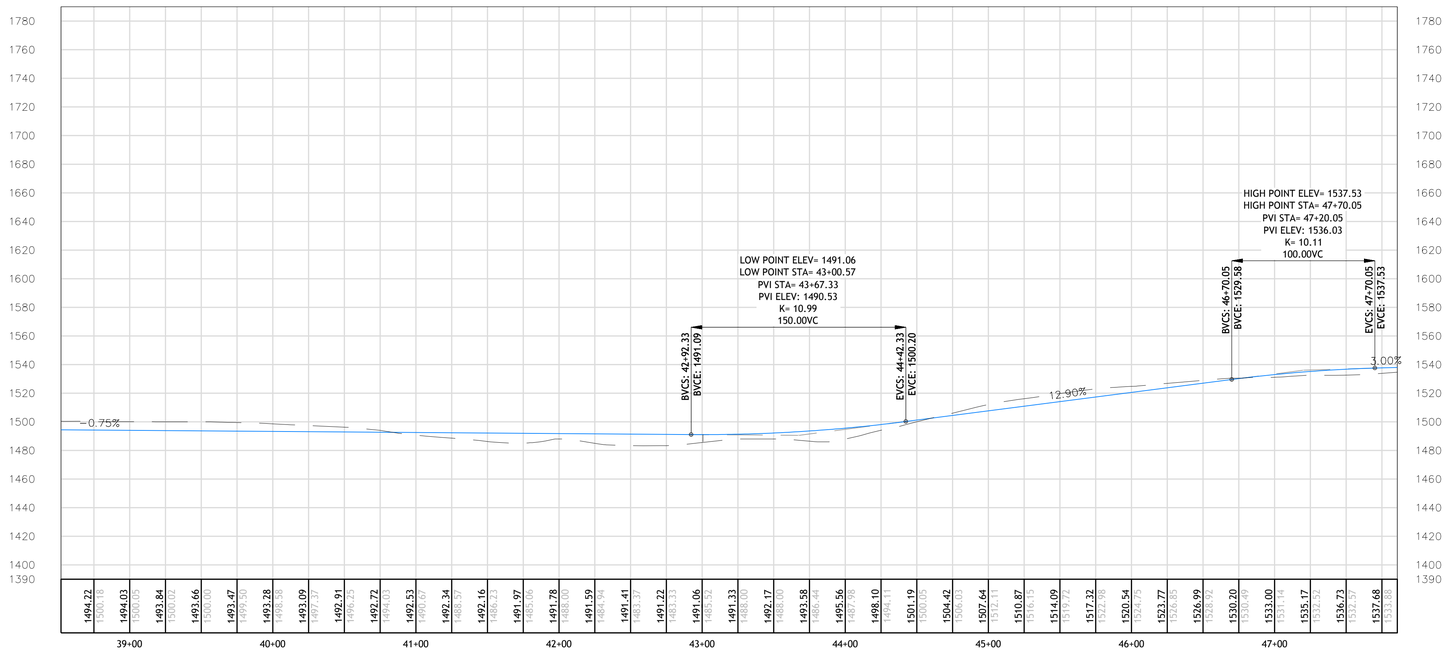
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 26 OF 44

Dwg No.:

C-308-33





Ridge Road Alignment Profile
Station 38+52.00 To Station 47+85.69

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

RIDGE ROAD PLAN AND PROFILE

STA. 38+52 TO 47+85.69

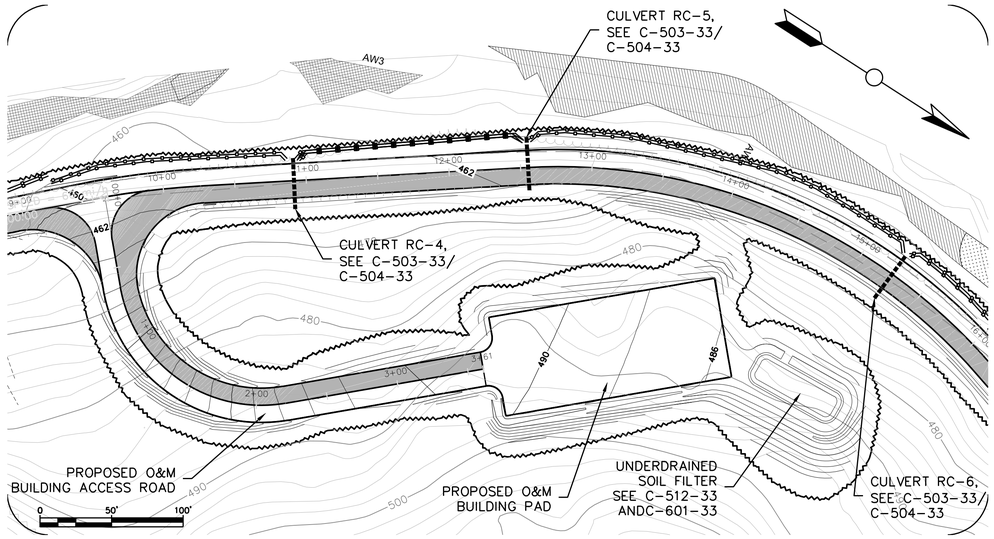
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

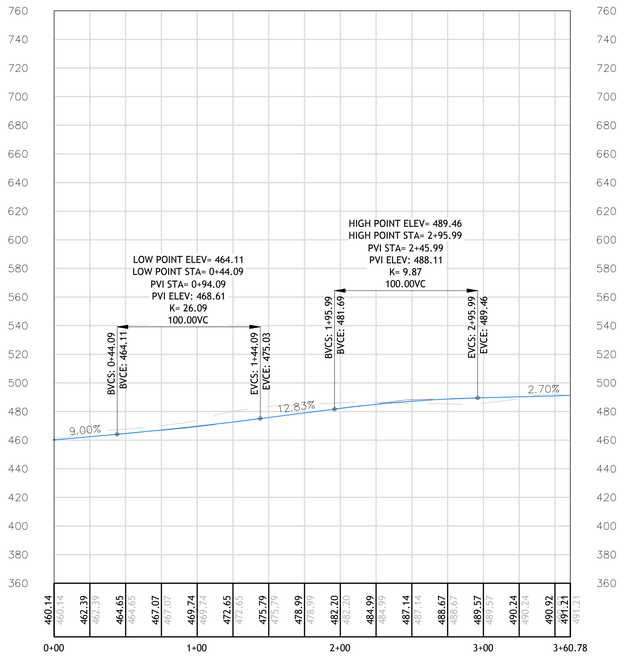
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 27 OF 44

Dwg No.: C-309-33





O&M Road PROFILE

GENERAL NOTES:

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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

Drawing Title:

O&M
BUILDING PAD AND
ACCESS ROAD

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

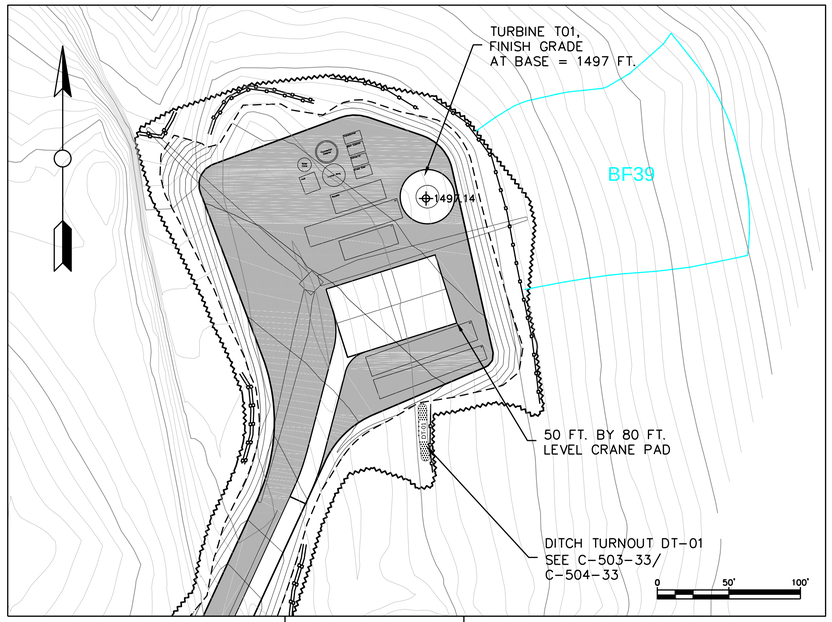
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

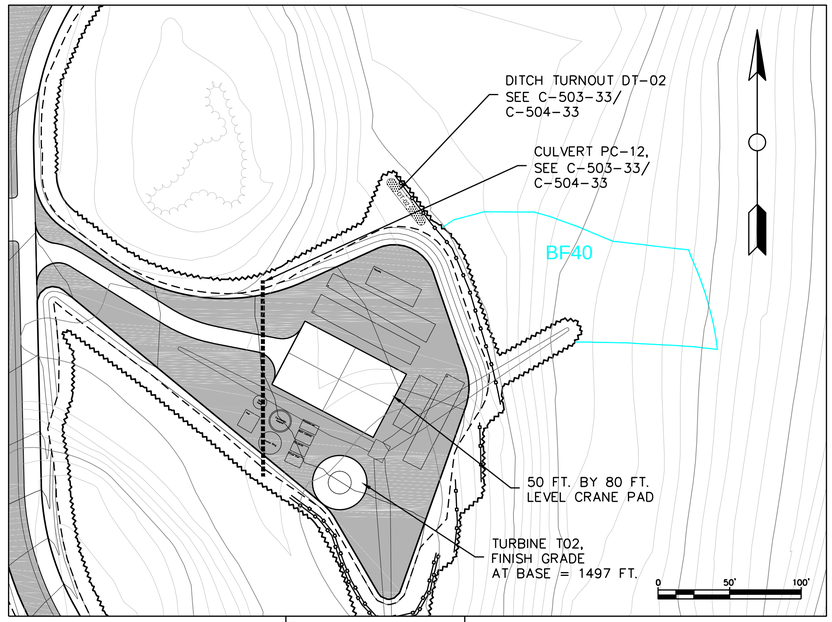
Sheet Number: 28 OF 44

Dwg No.:

C-401-33

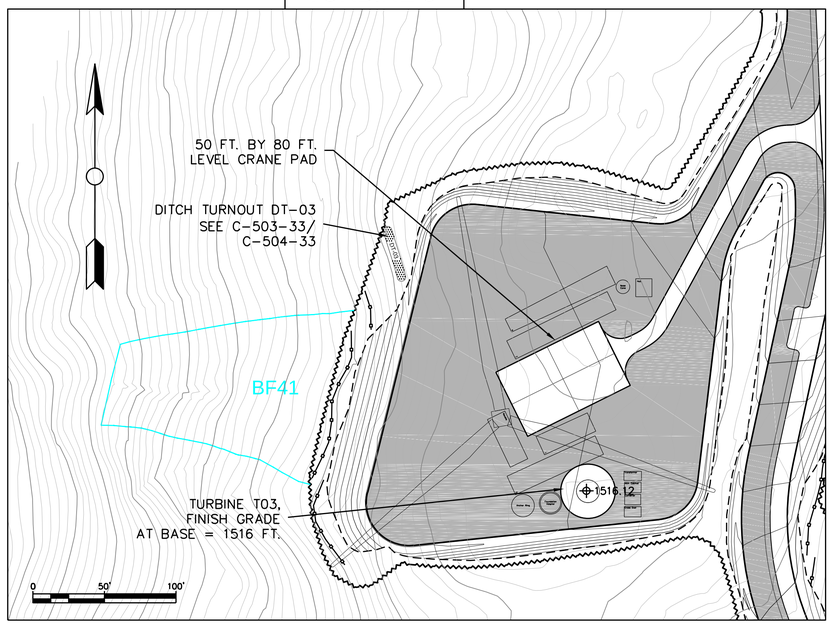


TURBINE 1



TURBINE 2

TURBINE 3



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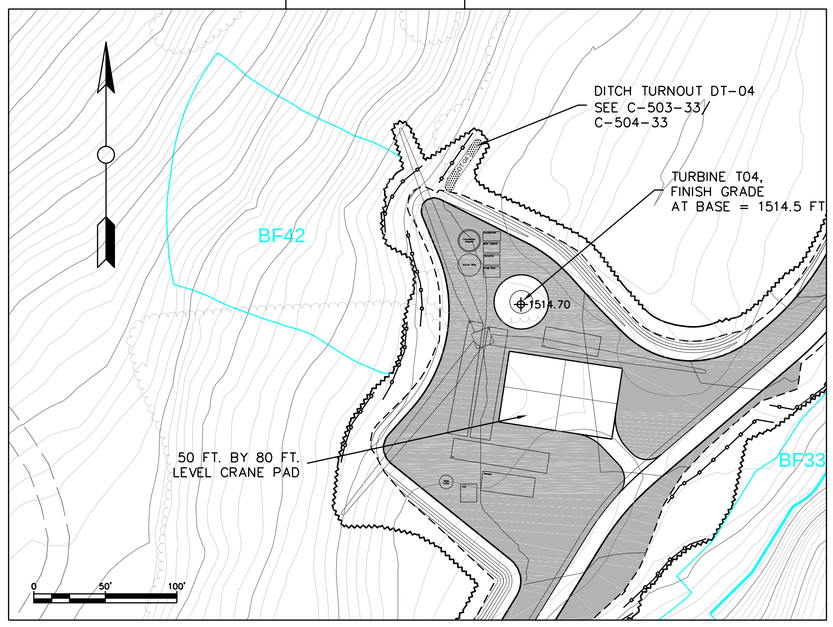

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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

Drawing Title:

TURBINE PADS

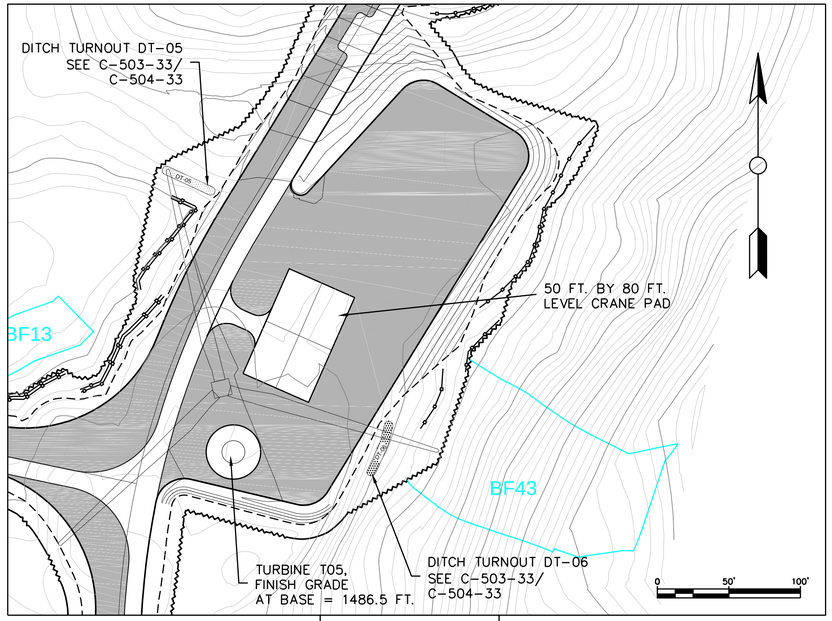
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

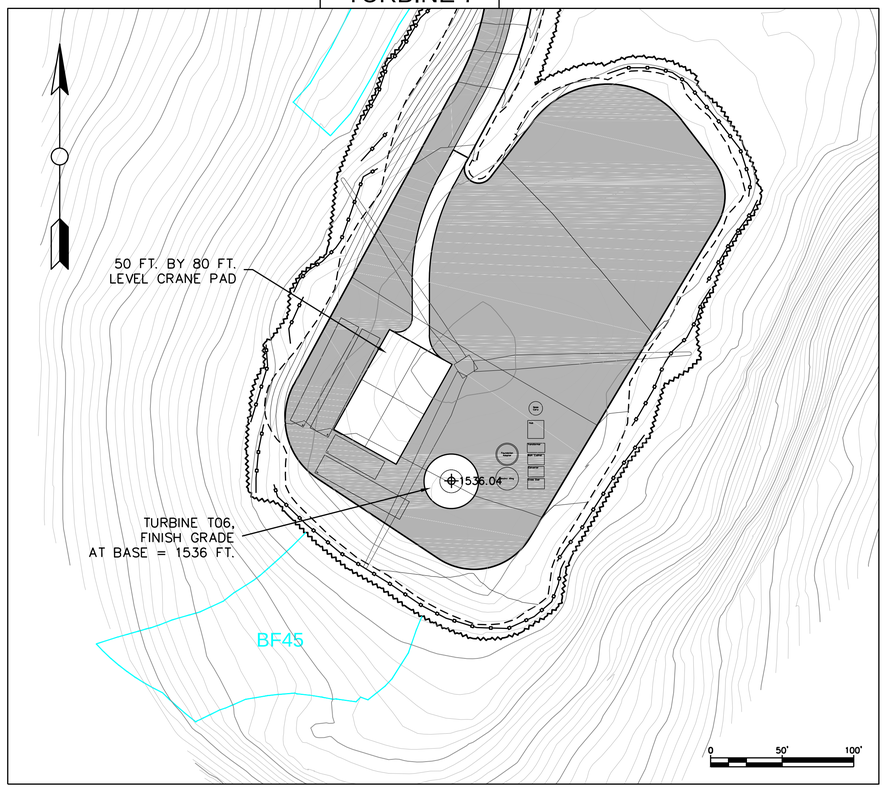
Sheet Number: 29 OF 44

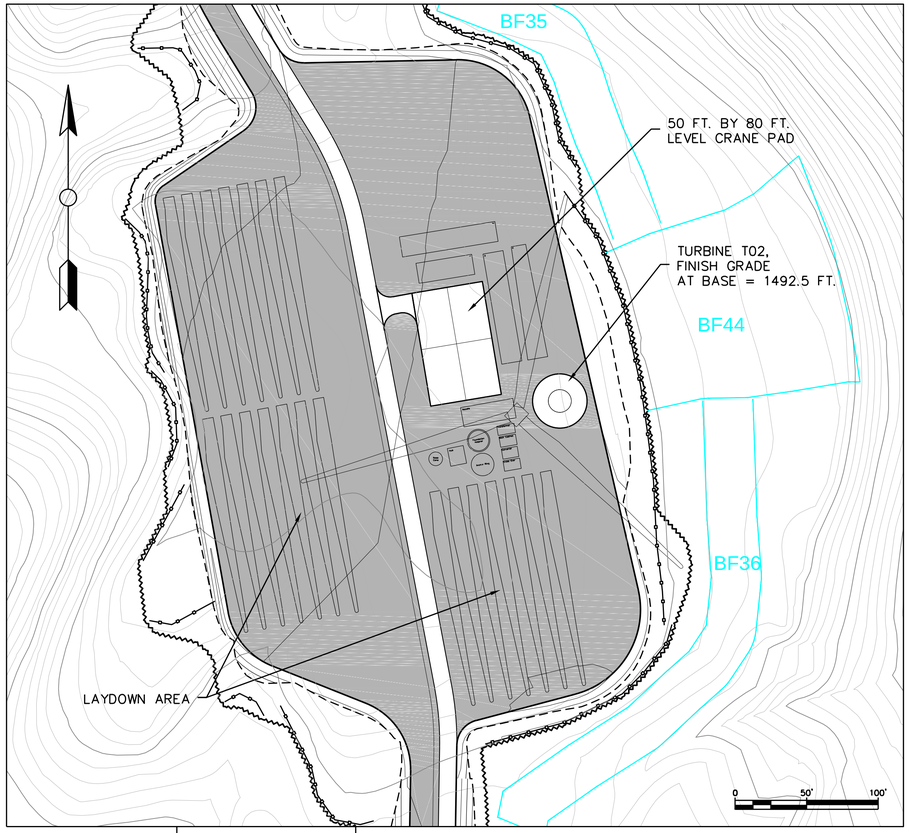
Dwg No.: C-402-33



TURBINE 5

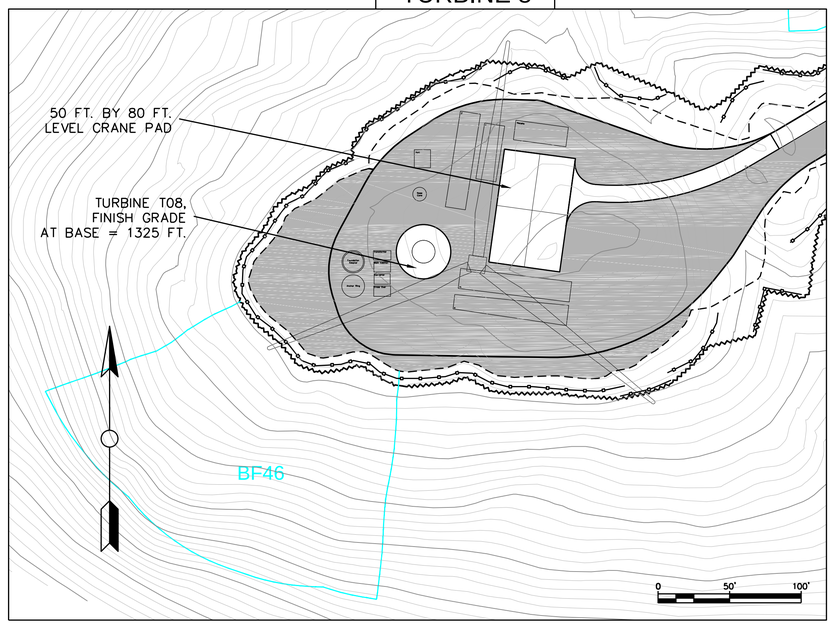
TURBINE 7





TURBINE 6

TURBINE 8



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EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

TURBINE PADS

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

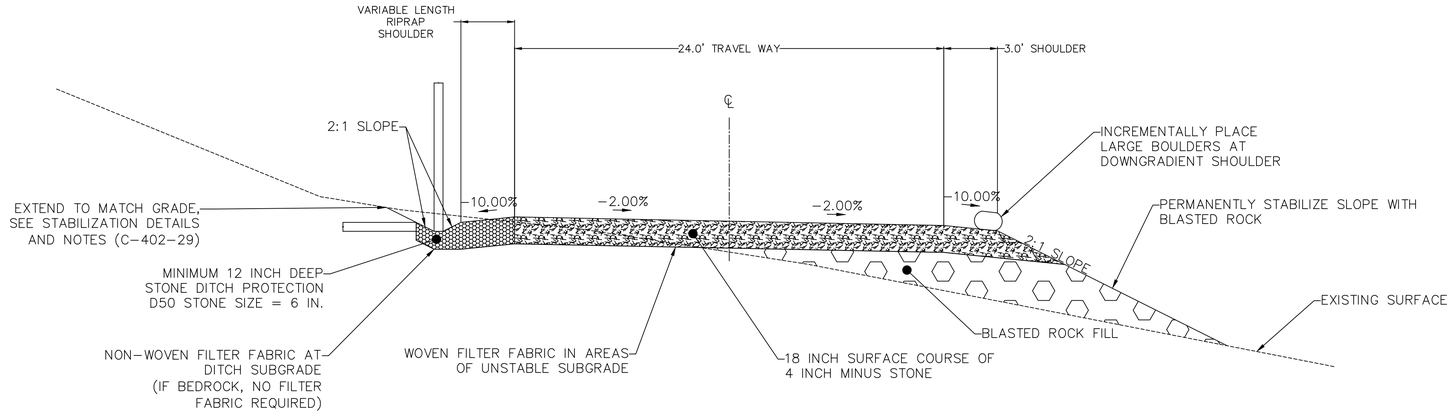
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 30 OF 44

Dwg No.: C-403-33

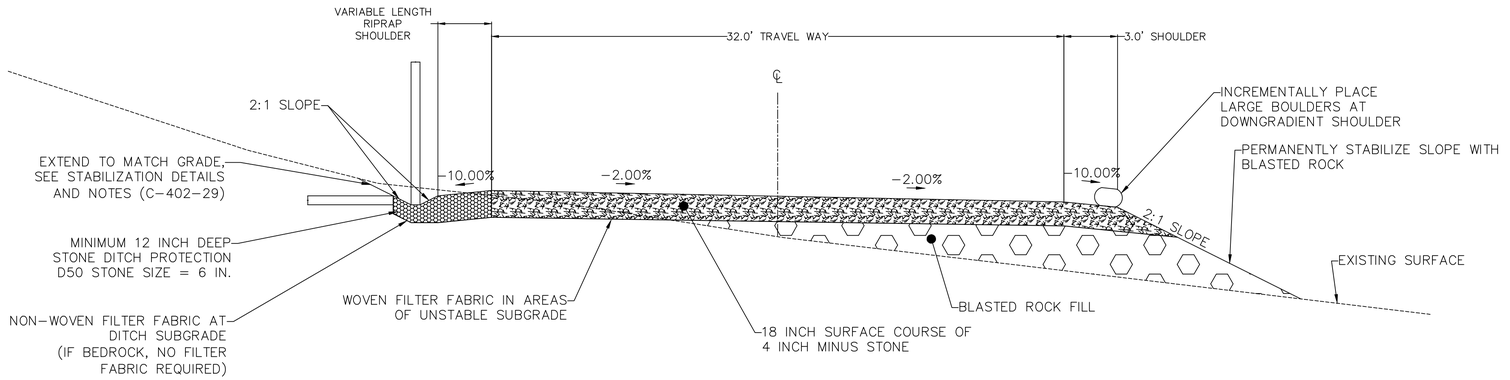
ACCESS AND CRANE ROAD DETAILS AND NOTES



24 FT ACCESS ROAD CROSS SECTION DETAIL

NOT TO SCALE

NOTES:
1. IN AREAS SHOWING A HIGH WATER TABLE, HIGH RUNOFF POTENTIAL, OR SUBSURFACE DRAINAGE FEATURES, ROCK SANDWICH AND ROCK MAKI SECTIONS SHOULD BE USED.
2. SULFITIC ROCK AND ORE ROCK ARE NOT SUITABLE FOR USE IN ROAD SECTION.
3. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
4. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.



32 FT CRANE ROAD CROSS SECTION DETAIL

NOT TO SCALE

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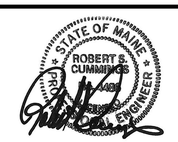
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL (508) 763-8900 FAX (508) 763-2020

Stamp:



Drawing Title:

ACCESS AND CRANE ROADS DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

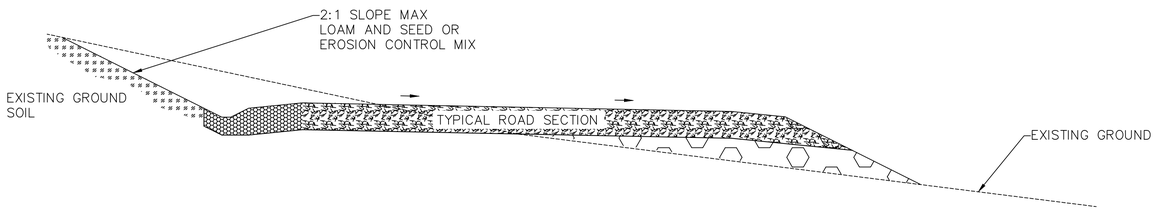
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 31 OF 44

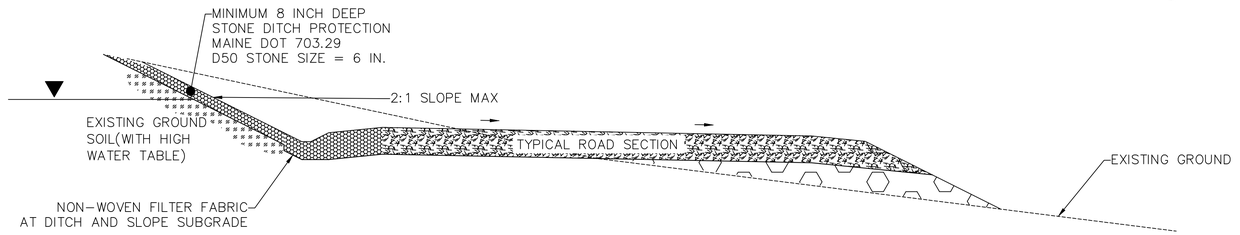
Dwg No.: C-501-33

SLOPE STABILIZATION DETAILS AND NOTES

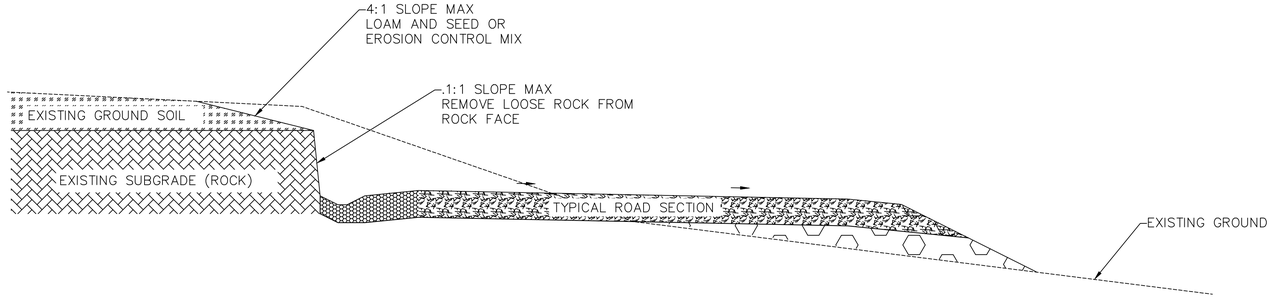
CUT SLOPE IN SOIL
NOT TO SCALE



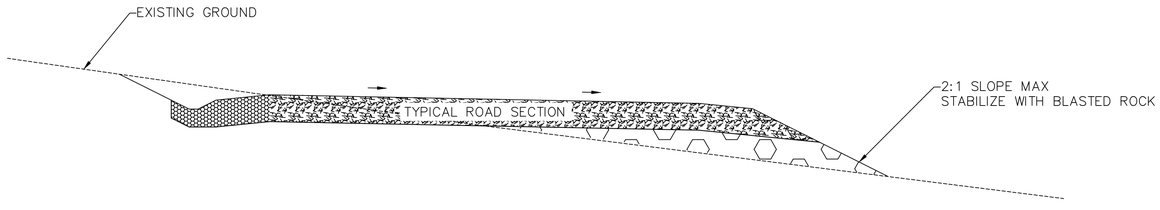
CUT SLOPE IN SOIL WITH HIGH WATER TABLE
NOT TO SCALE



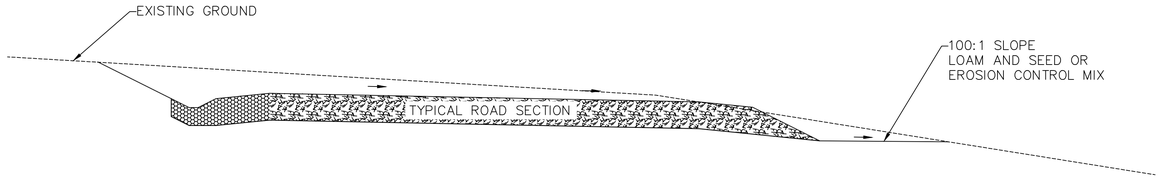
CUT SLOPE IN BEDROCK
NOT TO SCALE



FILL SLOPE AT DOWNGRADIENT
NOT TO SCALE



CUT SLOPE AT DOWNGRADIENT
NOT TO SCALE



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No.	Revision/Issue	Date

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EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8900 FAX (508) 763-2020

Stamp:

Drawing Title:

ACCESS AND CRANE ROAD
CUT AND FILL SLOPE STABILIZATION DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

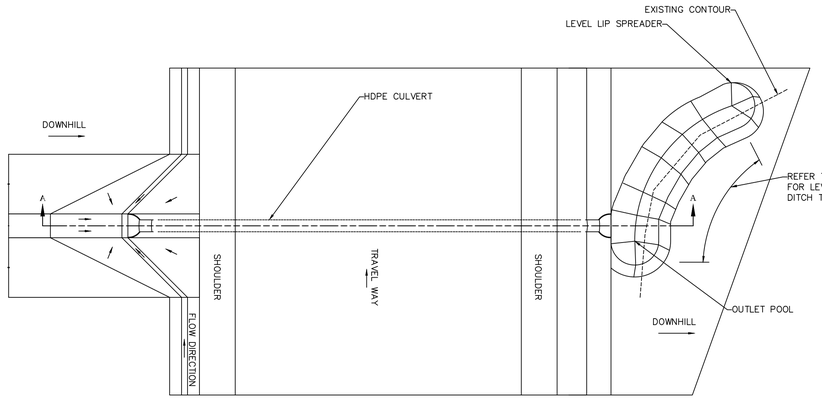
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 32 OF 44

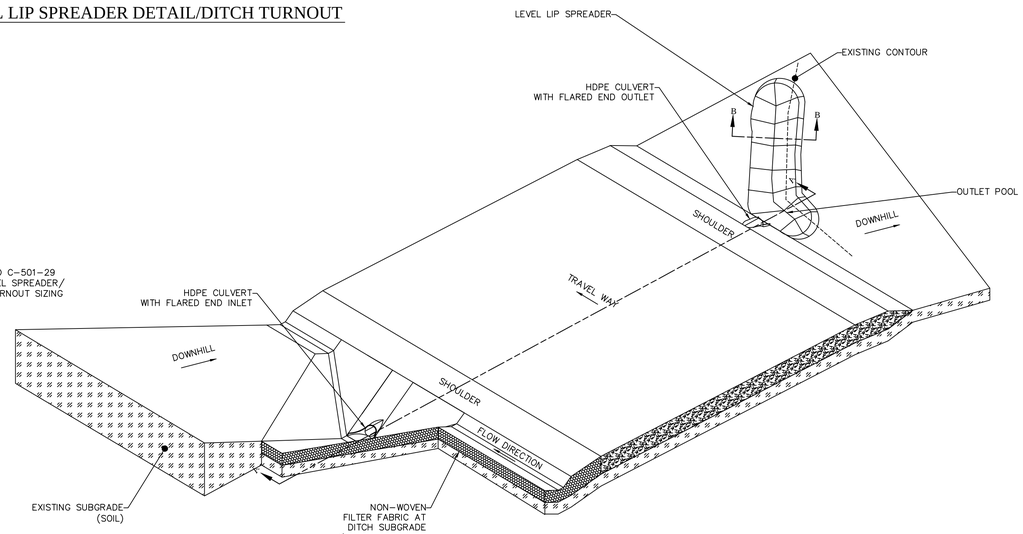
Dwg No.: C-502-33

CULVERT AND LEVEL LIP SPREADER DETAIL/DITCH TURNOUT



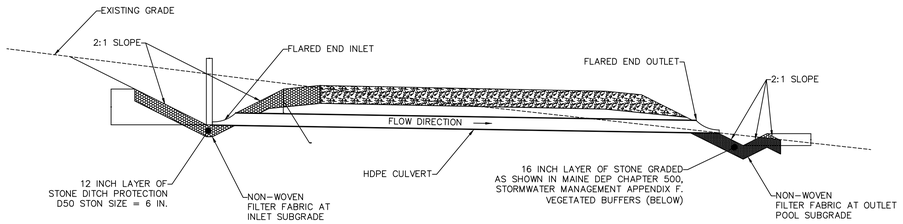
PLAN VIEW

NOT TO SCALE



ISOMETRIC INLET VIEW

NOT TO SCALE

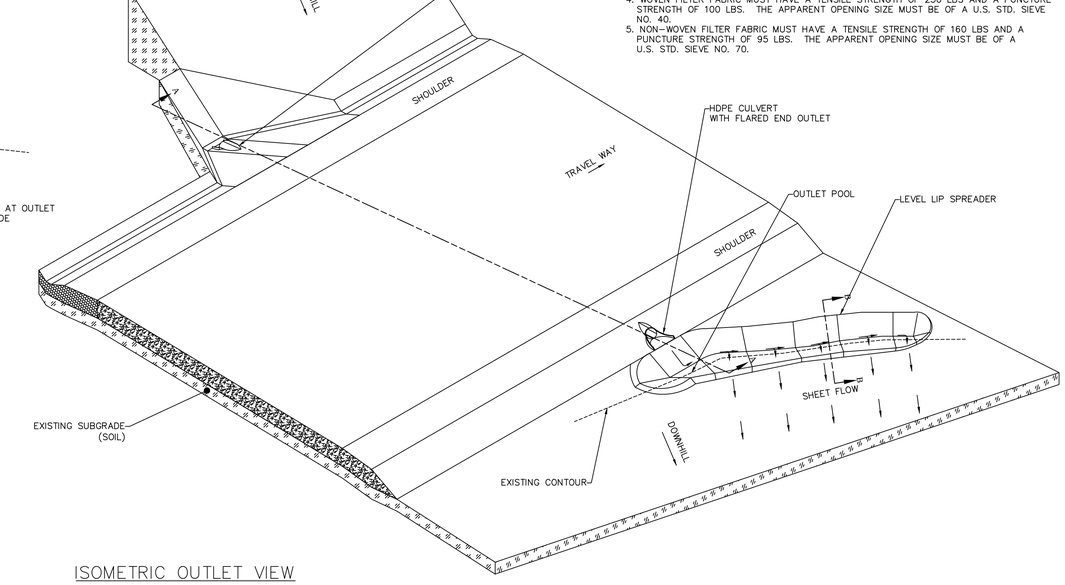


SECTION A-A

NOT TO SCALE

MAINE DEP
CHAPTER 500, STORMWATER MANAGEMENT
APPENDIX F. VEGETATED BUFFERS

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN.	100
6 IN.	84-100
3 IN.	68-83
1 IN.	42-55
NO.4	8-12



ISOMETRIC OUTLET VIEW

NOT TO SCALE

NOTES:
1. LEVEL LIP SPREADERS/DITCH TURNOUTS ARE TO BE USED AT LOCATIONS SPECIFIED IN PLANS.
2. CULVERTS, LEVEL LIP SPREADERS, AND DITCH TURNOUTS ARE TO BE SIZED AS SHOWN ON SHEET C-501-30.
3. IN A LOCATION WHERE BEDROCK OR UNSUITABLE FOR TRENCHING IN A LEVEL LIP SPREADER THE DETAIL ON SHEET C-404-30 IS TO BE USED.
4. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
5. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.

REPLACEMENT CULVERT NOTES:

STREAM CROSSING CULVERT REPLACEMENT MUST:

1. BE LIMITED TO 75 FEET IN LENGTH. THIS LIMIT MAY NOT BE EXCEEDED WITHIN A HALF-MILE LENGTH OF THE STREAM OR WITHIN THE LENGTH OF STREAM CONTROLLED BY THE APPLICANT
2. FOLLOW THE ALIGNMENT AND GRADE OF THE EXISTING STREAM CHANNEL WHERE POSSIBLE. ON PERENNIAL STREAMS THE CULVERT'S GRADIENT MAY NOT EXCEED 1%
3. HAVE THE BOTTOM OF THE ENTIRE CULVERT INSTALLED AT OR BELOW STREAM BED ELEVATION, EXCEPT FOR ADDITIONAL CULVERTS AT THE SAME CROSSING
4. WHERE TWO OR MORE CULVERTS ARE INSTALLED, BE OFFSET IN ORDER TO CONCENTRATE LOW FLOWS INTO THE CULVERT WITHIN THE NATURAL CHANNEL; BE SEATED ON FIRM GROUND, OR ON GEOTEXTILES, LOGS OR OTHER MATERIALS USED TO STABILIZE THE GROUND
5. BE COVERED BY SOIL TO A MINIMUM DEPTH OF 1 FOOT OR ACCORDING TO THE CULVERT MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER
6. HAVE THE SOIL COMPACTED AT LEAST HALFWAY UP THE SIDE OF THE CULVERT
7. HAVE THE INLET AND OUTLET ENDS STABILIZED BY RIPRAP IN ACCORDANCE WITH SECTION 8 SHORELINE STABILIZATION STANDARDS TO AVOID EROSION OF MATERIAL AROUND THE CULVERT
8. MUST OCCUR BETWEEN OCTOBER 2 AND JULY 14, OR A TIME PERIOD APPROVED BY THE DEP WHEN THE CROSSING INVOLVES TRENCHING OR DISTURBANCE OF SUBSTRATE IN A RIVER, STREAM OR BROOK . THE APPROVED TIME PERIOD MAY BE THE TIME PERIOD PROPOSED BY THE APPLICANT OR ANALTERNATIVE TIME PERIOD APPROVED BY THE DEP. AN ALTERNATIVE TIME PERIOD WILL BE REQUIRED WHERE IT APPEARS AN UNREASONABLE IMPACT ON WATER QUALITY OR FISHERIES MAY RESULT AT THE POINT OF CROSSING OR IMMEDIATELY DOWNSTREAM OF THE CROSSING. THE APPLICANT WILL BE NOTIFIED BY THE DEP WITHIN 14 DAYS IF AN ALTERNATIVE TIME PERIOD, OTHER THAN THE ONE PROPOSED BY THE APPLICANT, IS REQUIRED FOR CONSTRUCTING THE CROSSING.

STREAM CROSSING AND DRAINAGE CULVERT REPLACEMENT MUST:

9. HAVE EXCAVETED MATERIAL STOCKPILED EITHER OUTSIDE THE WETLAND OR ON MATS OR PLATFORMS. HAY BALES, SILT FENCE OR EROSION CONTROL MIX BERM MUST BE USED, WHERE NECESSARY, TO PREVENT SEDIMENTATION.
10. USE UNTREATED LUMBER FOR TIMBER MATTING. LUMBER PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) MAY BE USED ONLY IF NECESSARY AND ONLY IF USE IS ALLOWED UNDER FEDERAL LAW AND NOT PROHIBITED FROM SALE UNDER 38 M.R.S.A. 1682, AND PROVIDED IT IS CURED ON DRY LAND IN A WAY THAT EXPOSES ALL SURFACES TO THE AIR FOR A PERIOD OF AT LEAST 21 DAYS PRIOR TO CONSTRUCTION. WOOD TREATED WITH CREOSOTE OR PENTACHLOROPHENOL MAY NOT BE USED WHERE IT WILL CONTACT WATER.

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EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL (508) 763-8800 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

CULVERT
AND
LEVEL LIP SPREADER/
DITCH TURNOUT
DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

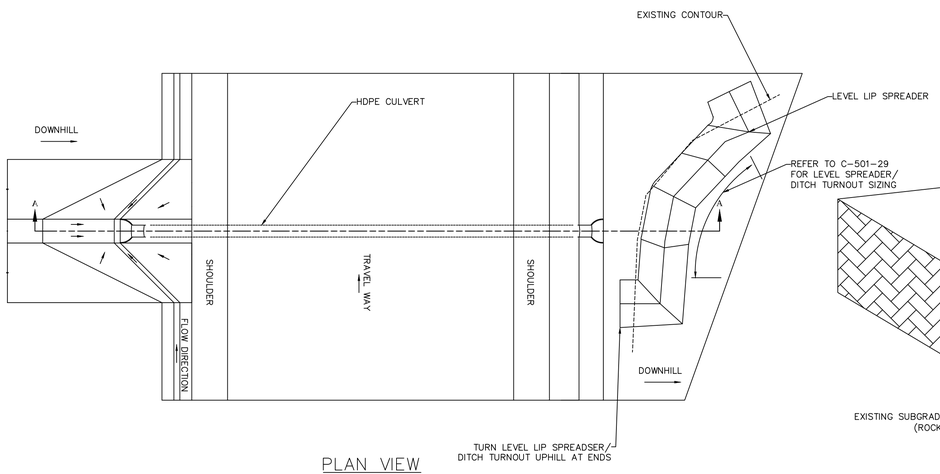
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 33 OF 44

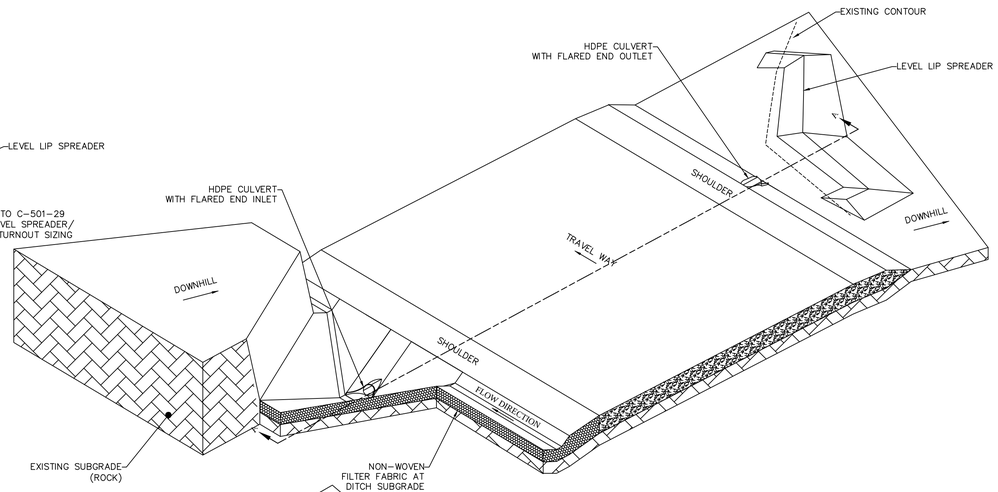
Dwg No.: C-503-33

CULVERT AND LEVEL LIP SPREADER DETAIL/DITCH TURNOUT IN LOCATIONS OF EXISTING BEDROCK



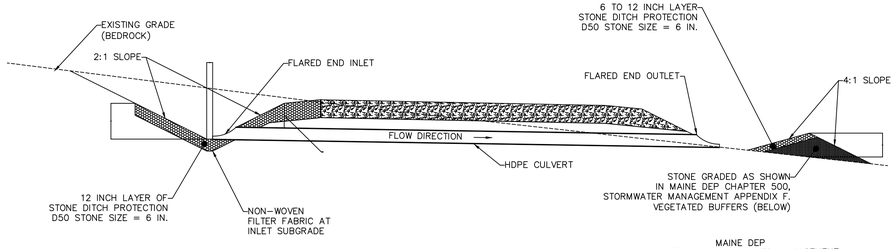
PLAN VIEW

NOT TO SCALE



ISOMETRIC INLET VIEW

NOT TO SCALE



SECTION A-A

NOT TO SCALE

MAINE DEP
CHAPTER 500, STORMWATER MANAGEMENT
APPENDIX F. VEGETATED BUFFERS

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
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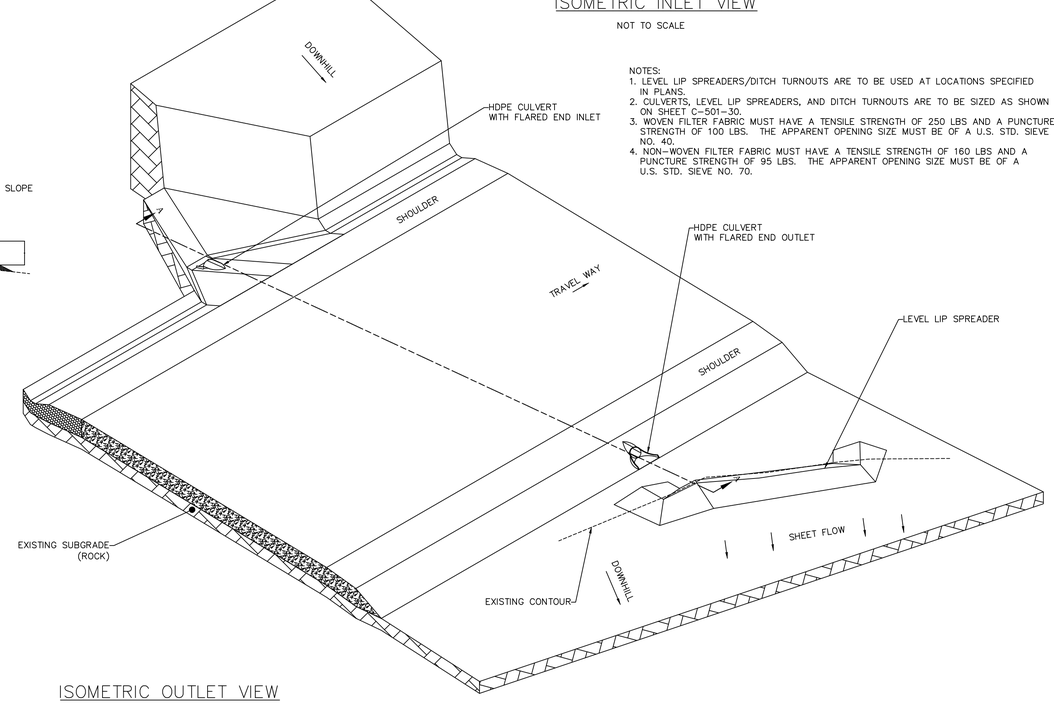

ISOMETRIC OUTLET VIEW

NOT TO SCALE

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3. HAVE THE BOTTOM OF THE ENTIRE CULVERT INSTALLED AT OR BELOW STREAM BED ELEVATION, EXCEPT FOR ADDITIONAL CULVERTS AT THE SAME CROSSING
4. WHERE TWO OR MORE CULVERTS ARE INSTALLED, BE OFFSET IN ORDER TO CONCENTRATE LOW FLOWS INTO THE CULVERT WITHIN THE NATURAL CHANNEL; BE SEATED ON FIRM GROUND, OR ON GEOTEXTILES, LOGS OR OTHER MATERIALS USED TO STABILIZE THE GROUND
5. BE COVERED BY SOIL TO A MINIMUM DEPTH OF 1 FOOT OR ACCORDING TO THE CULVERT MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER
6. HAVE THE SOIL COMPACTED AT LEAST HALFWAY UP THE SIDE OF THE CULVERT
7. HAVE THE INLET AND OUTLET ENDS STABILIZED BY RIPRAP IN ACCORDANCE WITH SECTION 8 SHORELINE STABILIZATION STANDARDS TO AVOID EROSION OF MATERIAL AROUND THE CULVERT
8. MUST OCCUR BETWEEN OCTOBER 2 AND JULY 14, OR A TIME PERIOD APPROVED BY THE DEP WHEN THE CROSSING INVOLVES TRENCHING OR DISTURBANCE OF SUBSTRATE IN A RIVER, STREAM OR BROOK. THE APPROVED TIME PERIOD MAY BE THE TIME PERIOD PROPOSED BY THE APPLICANT OR ANALTERNATIVE TIME PERIOD APPROVED BY THE DEP. AN ALTERNATIVE TIME PERIOD WILL BE REQUIRED WHERE IT APPEARS AN UNREASONABLE IMPACT ON WATER QUALITY OR FISHERIES MAY RESULT AT THE POINT OF CROSSING OR IMMEDIATELY DOWNSTREAM OF THE CROSSING. THE APPLICANT WILL BE NOTIFIED BY THE DEP WITHIN 14 DAYS IF AN ALTERNATIVE TIME PERIOD, OTHER THAN THE ONE PROPOSED BY THE APPLICANT, IS REQUIRED FOR CONSTRUCTING THE CROSSING.

STREAM CROSSING AND DRAINAGE CULVERT REPLACEMENT MUST:

9. HAVE EXCAVETED MATERIAL STOCKPILED EITHER OUTSIDE THE WETLAND OR ON MATS OR PLATFORMS. HAY BALES, SILT FENCE OR EROSION CONTROL MIX BERM MUST BE USED, WHERE NECESSARY, TO PREVENT SEDIMENTATION.
10. USE UNTREATED LUMBER FOR TIMBER MATTING. LUMBER PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) MAY BE USED ONLY IF NECESSARY AND ONLY IF USE IS ALLOWED UNDER FEDERAL LAW AND NOT PROHIBITED FROM SALE UNDER 38 M.R.S.A. 1682, AND PROVIDED IT IS CURED ON DRY LAND IN A WAY THAT EXPOSES ALL SURFACES TO THE AIR FOR A PERIOD OF AT LEAST 21 DAYS PRIOR TO CONSTRUCTION. WOOD TREATED WITH CREOSOTE OR PENTACHLOROPHENOL MAY NOT BE USED WHERE IT WILL CONTACT WATER.

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

4. EXISITNG TOPOGRAPHIC AND PLANNNIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY. INC.

5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.

6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.

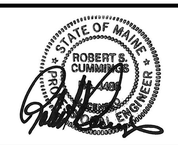
7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL:(508) 763-8800 FAX:(508) 763-2020

Stamp:



Drawing Title:

CULVERT AND LEVEL LIP SPREADER/ DITCH TURNOUT (BEDROCK) DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

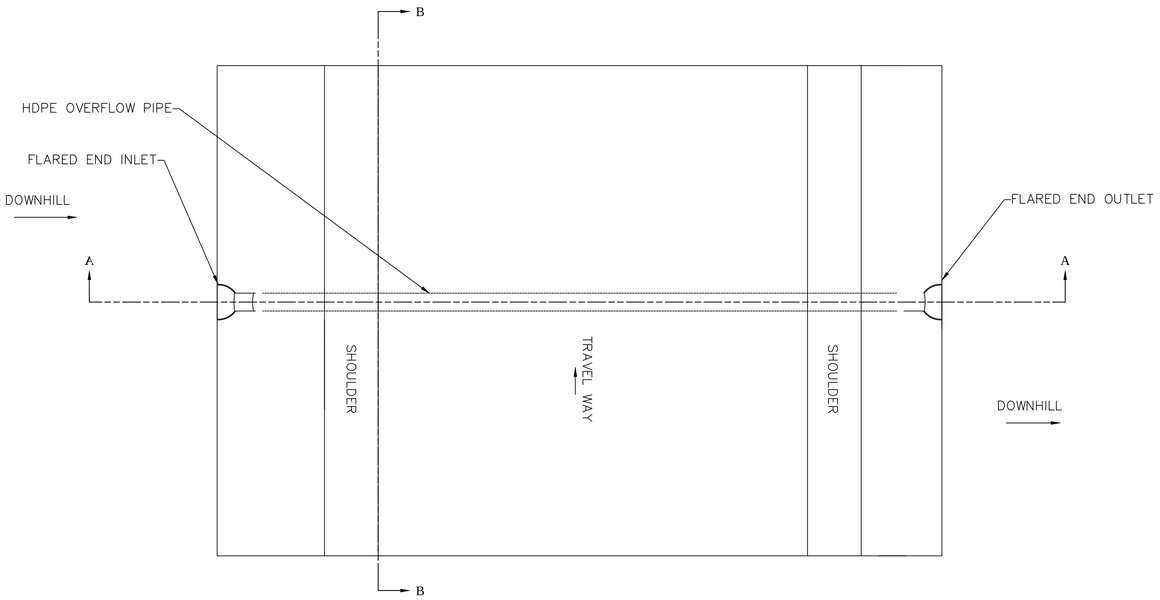
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 34 OF 44

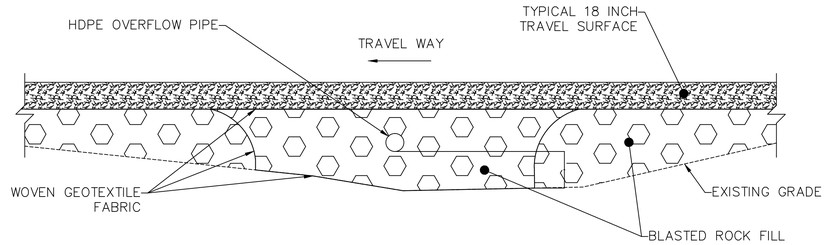
Dwg No.: C-504-33

ROCK SANDWICH DETAIL AND NOTES



PLAN VIEW

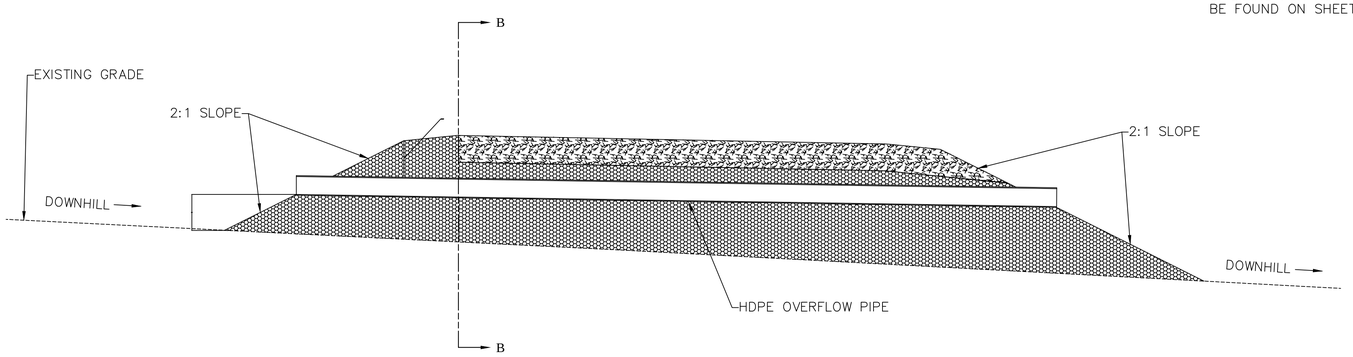
NOT TO SCALE



SECTION B–B

NOT TO SCALE

NOTES:
1. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
2. NON–WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.
3. SIZING FOR ROCK SANDWICH OVERFLOW PIPES CAN BE FOUND ON SHEET C–501–29



SECTION A–A

NOT TO SCALE

GENERAL NOTES:

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3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

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PATRIOT RENEWABLES

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ENGINEERING & MANAGEMENT SERVICES, INC.
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Drawing Title:

ROCK SANDWICH DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

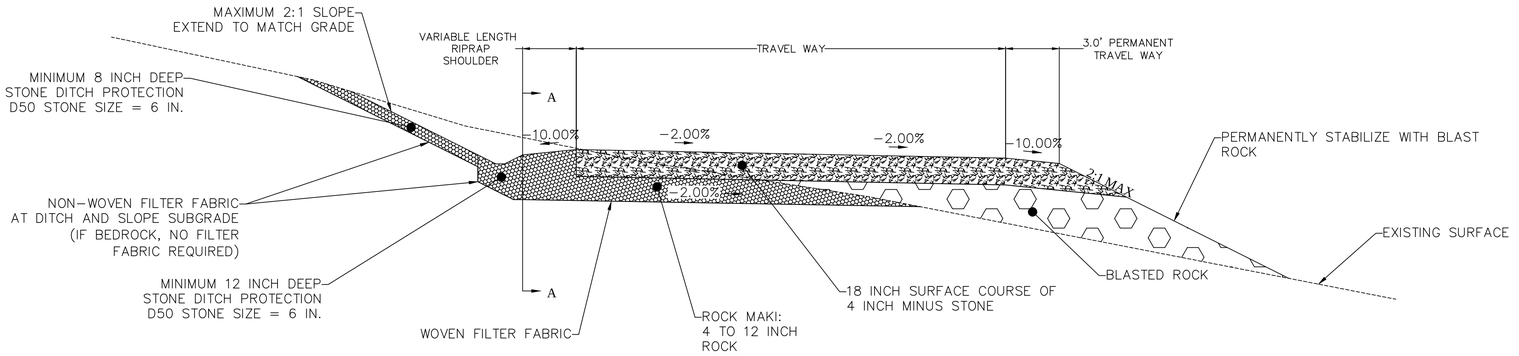
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 35 OF 44

Dwg No.: C–505–33

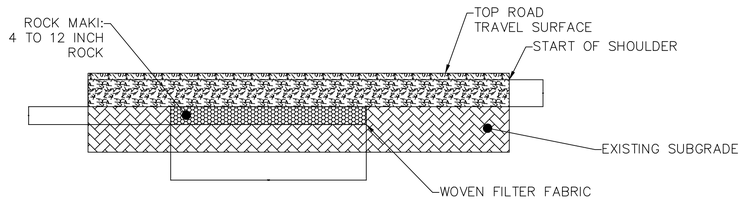
ROCK MAKI DETAIL AND NOTES



ROCK MAKI CROSS SECTION DETAIL

NOT TO SCALE

NOTE:
1. ROCK MAKI SECTION IS TO BE USED IN AREAS WHERE A DITCH INTERCEPTS EXISTING SOIL CONTAINING A HIGH WATER TABLE, AS WELL AS LOCATIONS SPECIFIED ON PLANS.
2. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
3. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.



SECTION A-A

NOT TO SCALE

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3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

4. EXISITNG TOPOGRAPHIC AND PLANNNIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY. INC.

5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.

6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.

7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
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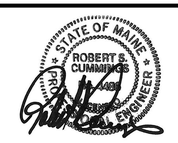
Stamp:



Drawing Title:

ROCK MAKI
DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

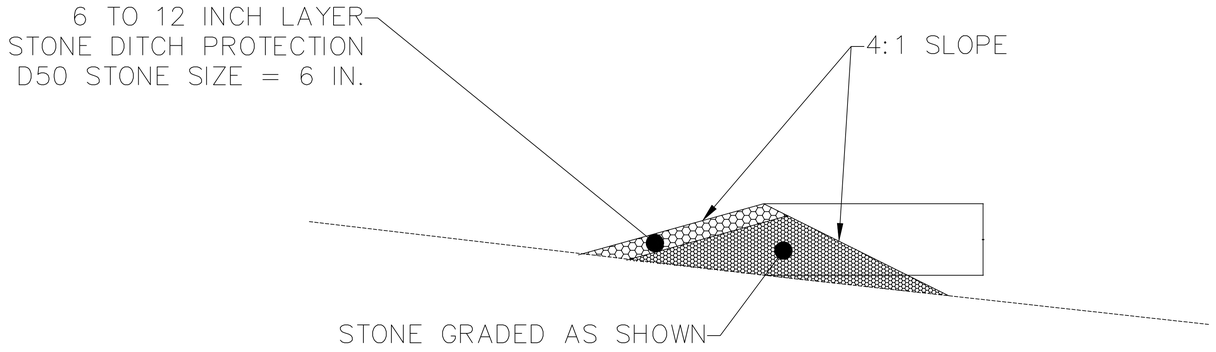
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 36 OF 44

Dwg No.:

C-506-33

DIVERSION BERM DETAILS AND NOTES



MAINE DEP
CHAPTER 500, STORMWATER MANAGEMENT
APPENDIX F. VEGETATED BUFFERS

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN.	100
6 IN.	84–100
3 IN.	68–83
1 IN.	42–55
NO.4	8–12

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL (508) 763-8900 FAX (508) 763-2020

Stamp:

Drawing Title:
DIVERSION BERM
DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

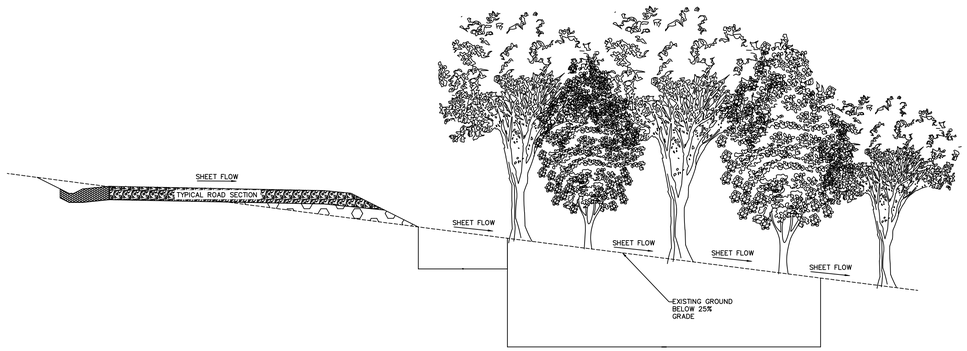
Sheet Number:
37 OF 44

Dwg No.:
C–507–33

STORMWATER TREATMENT BUFFER DETAILS AND NOTES

UNDISTURBED STORMWATER TREATMENT BUFFER (EXISTING SLOPES BELOW 25% GRADE)

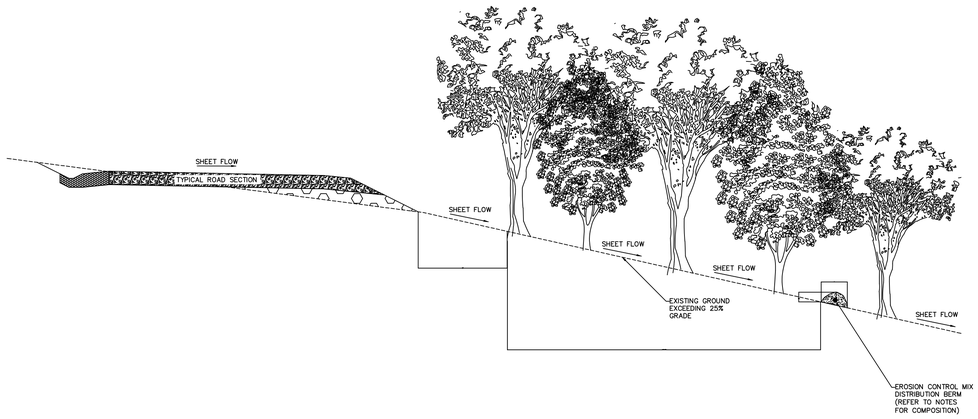
NOT TO SCALE



NOTES:
1. RUNOFF FROM ADJACENT ROAD SURFACE AND SHOULDERS WILL BE DIRECTED TO BUFFER
2. BUFFER SLOPES WILL NOT EXCEED 25%.
3. RUNOFF MUST ENTER THE BUFFER AS SHEET FLOW.
4. IF THE BUFFER IS USED TO TRAP SEDIMENT DURING CONSTRUCTION, SEDIMENT MUST BE REMOVED AND ORIGINAL TOPOGRAPHY, GROUND COVER AND VEGETATION IS TO BE REESTABLISHED.

UNDISTURBED STORMWATER TREATMENT BUFFER WITH EROSION CONTROL MIX BERM (EXISTING SLOPES ABOVE 25% GRADE)

NOT TO SCALE



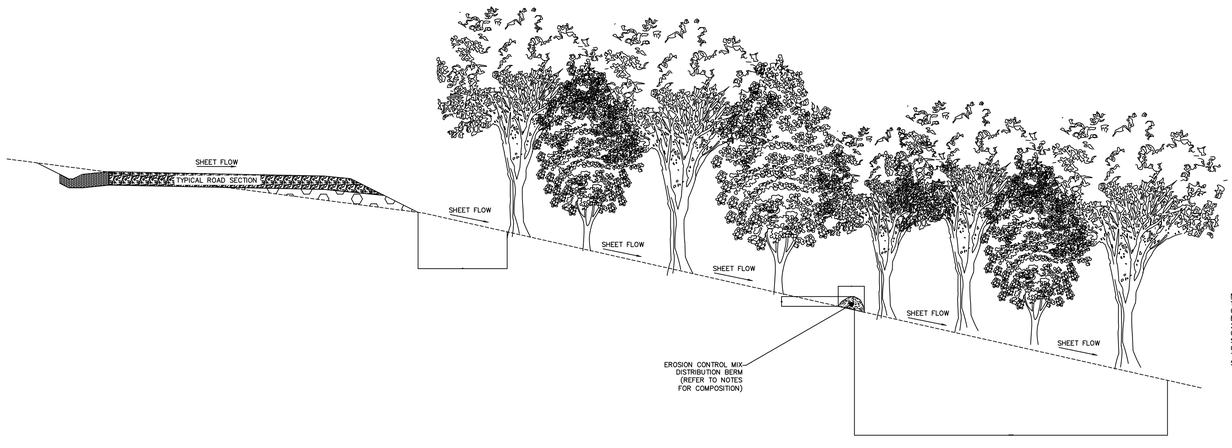
NOTES:
1. RUNOFF FROM ADJACENT ROAD SURFACE AND SHOULDERS WILL BE DIRECTED TO BUFFER
2.. RUNOFF MUST ENTER THE BUFFER AS SHEET FLOW.
3. IF THE BUFFER IS USED TO TRAP SEDIMENT DURING CONSTRUCTION, SEDIMENT MUST BE REMOVED AND ORIGINAL TOPOGRAPHY, GROUND COVER AND VEGETATION IS TO BE REESTABLISHED.
4. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
5. THE BERM MAY BE BLOWN INTO PLACE.

MAINE DEP
CHAPTER 500, STORMWATER MANAGEMENT
APPENDIX F. VEGETATED BUFFERS

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN.	100
6 IN.	84–100
3 IN.	68–83
1 IN.	42–55
NO.4	8–12

UNDISTURBED STORMWATER TREATMENT BUFFER WITH EROSION CONTROL MIX DISTRIBUTION BERM

NOT TO SCALE



NOTES:
1. EROSION CONTROL MIX DISTRIBUTION BERM IS TO BE USED AT THE BEGINNING OF TREATMENT BUFFERS WHERE RUNOFF DOES NOT IMMEDIATELY ENTER THE BUFFER, AS SHOWN ON PLANS.
2. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF STUMP GRINDINGS OR SIMILAR COARSE, FIBROUS ORGANIC MATERIAL WITH A RANGE OF SIZES AND MAY CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE PHYSICAL CONTAMINANTS, AND MATERIALS TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS.
   2.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 20 AND 100 PERCENT, DRY WEIGHT BASIS
   2.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND 70 PERCENT TO 85 PERCENT, PASSING A 3/4-INCH SCREEN
   2.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED
   2.4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX
3. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
4. THE BERM MAY BE BLOWN INTO PLACE.

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

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5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.

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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES
EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
TEL (508) 763-8600 FAX (508) 763-2020

Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

STORMWATER TREATMENT BUFFER DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

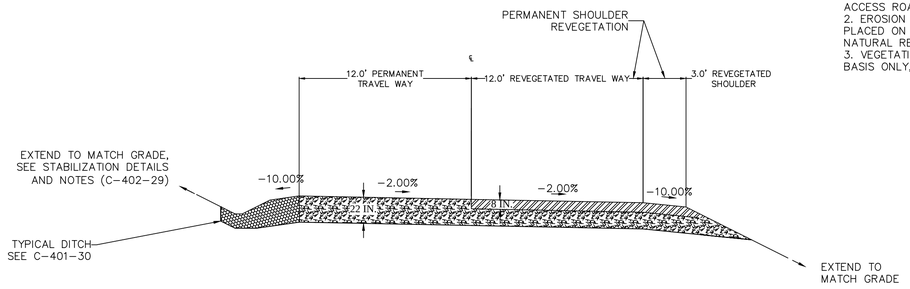
Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 38 OF 44

Dwg No.: C-508-33

REVEGETATION DETAILS AND NOTES

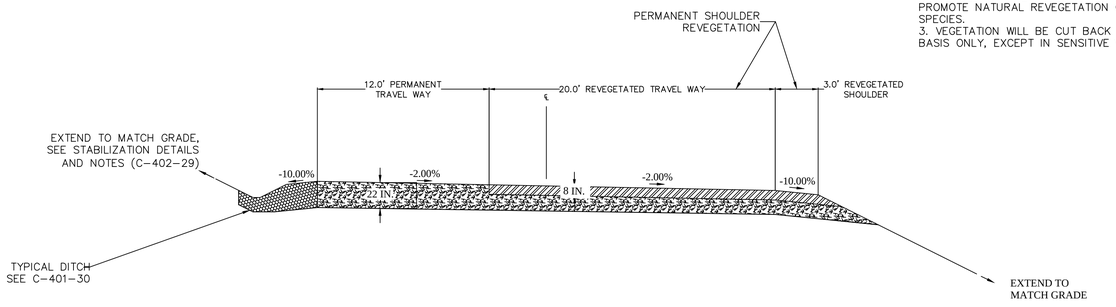


NOTE:

1. TEMPORARY SHOULDERS ALONG PERMANENT ACCESS ROAD TO BE REVEGETATED.
2. EROSION CONTROL MIX OR LOAM & SEED WILL BE PLACED ON THE REVEGETATED AREAS TO PROMOTE NATURAL REVEGETATION OF NATIVE SPECIES.
3. VEGETATION WILL BE CUT BACK ON AN ANNUAL BASIS ONLY, EXCEPT IN SENSITIVE VIEW SHEDS.

24' ACCESS ROAD REVEGETATION DETAIL

NOT TO SCALE



NOTE:

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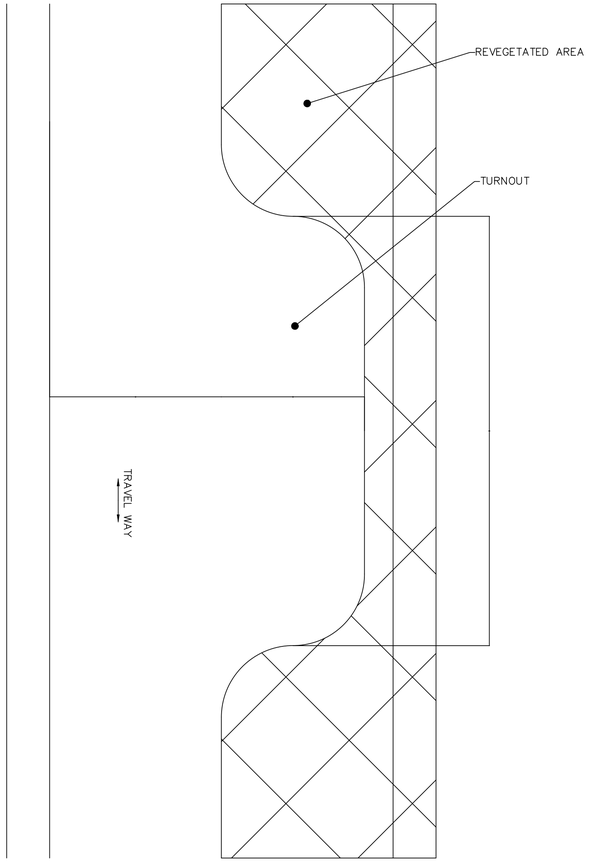
3. VEGETATION WILL BE CUT BACK ON AN ANNUAL BASIS ONLY, EXCEPT IN SENSITIVE VIEW SHEDS.

32' CRANE ROAD REVEGETATION DETAIL

NOT TO SCALE



ROAD TURNOUT DETAIL

NOT TO SCALE

GENERAL NOTES:

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No.	Revision/Issue	Date

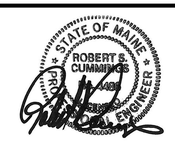
PATRIOT RENEWABLES

EMS

ENGINEERING & MANAGEMENT SERVICES, INC.

7 ALLEN ROAD, ROCHESTER, MA 02770
TEL (508) 763-8600 FAX (508) 763-2020

Stamp:



Drawing Title:

ACCESS AND CRANE ROAD REVEGETATION DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 39 OF 44

Dwg No.: C-509-33

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHALL BE INSTALLED & MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH, 2003 (AS REVISED).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING STORMWATER MANAGEMENT PRACTICES IN ACCORDANCE WITH LOCAL REGULATIONS AND GOVERNING AUTHORITIES AND SHALL BE RESPONSIBLE FOR ANY FINES RESULTING FROM EROSION CONTROL VIOLATIONS.
3. THE CONTRACTOR SHALL PROVIDE PROPER EROSION AND SEDIMENT CONTROL MEASURES IN ALL AREAS OF WORK. PRIOR TO BEGINNING GRUBBING WORK, SILT FENCE SHALL BE INSTALLED. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM, CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES TO CONTROL EROSION. EROSION CONTROL MEASURES SHALL ALSO BE INSTALLED AT THE DOWNGRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION.
4. THE CONTRACTOR SHALL INSPECT ESC MEASURES ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF SIGNIFICANT RAINFALL EVENTS, INCLUDING THOSE THAT RESULT IN DISCHARGE OF STORMWATER FROM THE SITE. SIGNIFICANT RAINFALL IS DEFINED AS RAINFALL OF HALF-INCH OR GREATER. REPAIRS SHALL BE MADE AS DIRECTED BY THE MAINE DEP'S ENVIRONMENTAL INSPECTOR AS NECESSARY. ACCUMULATED SEDIMENT TRAPPED BY ESC DEVICES SHALL BE REMOVED AS NECESSARY.
5. THE ROAD WILL BE CONSTRUCTED IN SEGMENTS. EACH SEGMENT SHALL NOT EXCEED AN AREA THAT CANNOT BE STABILIZED WITHIN ONE WEEK.
6. TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND THOSE ADJACENT AREAS RESTORED UPON COMPLETION OF THE WORK OR WHEN SO ORDERED BY THE ENGINEER OR MAINE DEP. EXPOSED SOIL RESULTING FROM REMOVAL OF TEMPORARY ESC MEASURES SHALL BE RAKED SEEDED, AND MULCHED OR MATTED AS NEEDED.

7. TEMPORARY MULCHING IS TO BE APPLIED TO ALL DISTURBED AREAS WITHIN 21 DAYS OF INITIAL DISTURBANCE AND TO AREAS LEFT INACTIVE AND UNSTABILIZED FOR A PERIOD GREATER THAN 7 DAYS AT A RATE OF 2 TONS/ACRE UNLESS:

a. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECASTED FOR THE NEXT 24 HOURS.
ii. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURING IN A SELF-CONTAINED EXCAVATION (i.e. NO OUTLET) WITH A DEPTH OF 2 FEET OF GREATER (e.g. UTILITY TRENCHES)

8. PERMANENT SEED MIX SHALL BE USED AS EARLY AS PRACTICABLE BETWEEN MAY 15TH AND SEPTEMBER 15TH AND MEET THE FOLLOWING MAINE DOT STANDARD SPECIFICATION 717.03 METHOD #2 CRITERIA:

RED FESCUE	50%
SHEEP FESCUE	25%
RED TOP	5%
WHITE CLOVER	10%
ANNUAL RYE	10%

9. PERMANENT SEED MIX SHALL BE USED BETWEEN SEPTEMBER 15TH AND MAY 15TH AND SHALL MEET THE FOLLOWING CRITERIA:

WINTER RYE	80%
RED FESCUE	10%
SHEEP FESCUE	5%
RED TOP	1%
WHITE CLOVER	2%
ANNUAL RYE	2%

10. CROWN VETCH CAN BE ADDED TO SEEDING MIXES AT 25%. CROWN VETCH IS NOT TO BE USED IN WETLAND AREAS

11. WETLAND SEED MIX SHALL MEET THE FOLLOWING CRITERIA:

NODDING BUR MARIGOLD	3%
FOX SEDGE	13%
CREEPING BENTGRASS	14%
RIVERBANK WILD RYE	8%
VIRGINIA WILD RYE	14%
SOFT RUSH	2%
SENSITIVE FERN	1.5%
BLUE VERVAIN	1%
BLACKWELL SWITCH GRASS	25%
GREY DOGWOOD	0.5%
CREEPING RED FESCUE	18%

12. THE METHOD OF STRIPPING VEGETATION SHALL BE SUCH AS TO MINIMIZE EROSION. FILLS SHALL BE PLACED AND COMPACTED IN SUCH A MANNER AS NOT TO DIVERT WATER ON TO ADJOINING PROPERTY.

13. ANCHORED MULCH OR EROSION CONTROL BLANKET SHALL BE USED TO STABILIZE SLOPES BETWEEN 2H:1V AND 1H:1V.

14. RIPRAP SHALL BE USED TO STABILIZE SLOPES BETWEEN 1H:1V AND 1H:.5V OR SLOPES WHERE A HIGH WATER TABLE IS PRESENT.

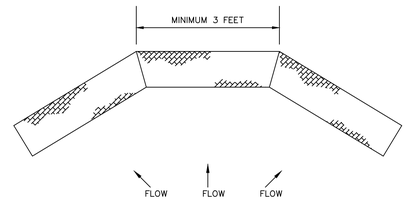
15. GEOSYNTHETIC BERMS AND EROSION CONTROL MIX BERMS MAY BE SUBSTITUTED FOR SILT FENCE BY THE CONTRACTOR AS CONDITIONS DICTATE.

16. INITIAL CLEARING WILL CONSIST OF CLEARING 5 +/- FEET OF THE CUT AND FILL SLOPES. FURTHER CLEARING FOR EROSION CONTROL MEASURES WILL BE EVALUATED IN THE FIELD AND WILL BE WITHIN THE CLEARING LIMITS SPECIFIED ON THE PLAN.

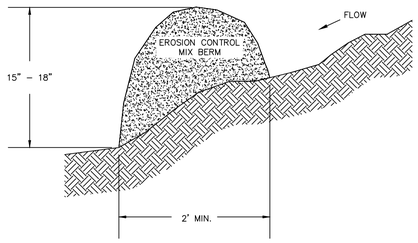
WINTER CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL WINTER EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH SECTION A-3 OF "MAINE EROSION AND SEDIMENTATION BMP'S".
2. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT FOR ANY GIVEN SEGMENT OF THE PROJECT AREA, NO MORE THAN ONE ACRE WILL BE EXPOSED AT ANY GIVEN TIME.
3. DISTURBED AREAS ARE TO BE LIMITED TO AREAS WHERE WORK IS TO BE COMPLETED WITHIN 15 DAYS AND CAN BE MULCHED IN ONE DAY PRIOR TO A SNOW EVENT.
4. AREAS OF DISTURBED SOIL SHALL BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS: (1) IF NO RUNOFF EVENT IS FORECAST FOR WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS AND/OR (2) DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES OR FOUNDATIONS, WHICH REQUIRE STABILIZATION AT THE END OF EACH WEEK.
5. SNOW PILING SHALL OCCUR WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
6. DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
7. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE INSTALLED PRIOR TO FROZEN GROUND CONDITIONS. SILT FENCE MAY BE INSTALLED WITH STONE BACKING DURING FROZEN GROUND CONDITIONS.
8. MULCH USED FOR TEMPORARY STABILIZATION SHALL BE APPLIED AT 4 TONS/ACRE WITH AN 80 TO 90 PERCENT UNIFORM COVER AND TRACKED IN TO PREVENT REMOVAL BY WIND.
9. PRIOR TO STABILIZATION, SNOW AND/OR ICE SHALL BE REMOVED TO LESS THAN ONE INCH REMAINING.
10. TEMPORARY CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS WHERE CONSTRUCTION VEHICLE TRAFFIC WILL BE ENTERING AND LEAVING THE CONSTRUCTION SITE. ENTRANCES SHALL BE AT LEAST 14 FEET WIDE TO ACCOMMODATE VEHICULAR TRAFFIC.
11. ALL SLOPES LESS THAN 3H:1V SHALL BE MULCHED AT 4 TONS/ACRE AND TRACKED IN.
12. THE SITE STABILIZATION SCHEDULE BEFORE WINTERS SHALL BE AS FOLLOWS:

SEPTEMBER 15	ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED. ALL SLOPES REQUIRING VEGETATION MUST BE STABILIZED, SEEDED, AND MULCHED.
OCTOBER 1	ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1000 SQ-FT AND MULCHED.
NOVEMBER 15	ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. ALL SLOPES REQUIRING RIPRAP MUST BE CONSTRUCTED.
DECEMBER 1	ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.



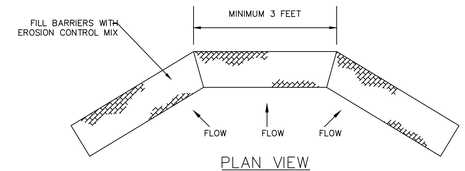
PLAN VIEW
NOT TO SCALE



SECTION VIEW
NOT TO SCALE

EROSION CONTROL MIX BERM DETAIL
NOT TO SCALE

NOTES:
1. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF STUMP GRINDINGS OR SIMILAR COARSE, FIBROUS ORGANIC MATERIAL WITH A RANGE OF SIZES AND MAY CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE PHYSICAL CONTAMINANTS, AND MATERIALS TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS.
   1.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 20 AND 100 PERCENT, DRY WEIGHT BASIS.
   1.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND 70 PERCENT TO 85 PERCENT, PASSING A 3/4-INCH SCREEN.
   1.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
   1.4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. TALL GRASSES MAY NEED TO BE CUT TO AVOID VOID SPACES THAT WOULD ALLOW FINES TO WASH UNDER THE BARRIER.
3. FROZEN GROUND, OUTCROPS OF BEDROCK AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.
4. THE EROSION CONTROL MIX CAN BE CONTAINED WITHIN A SYNTHETIC TUBULAR NETTING OR "SOCK". REFER TO GEOSYNTHETIC BERM BELOW.



PLAN VIEW
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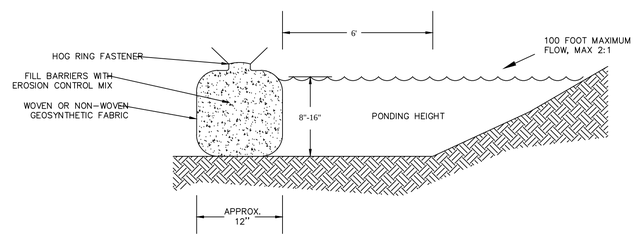

SECTION VIEW
NOT TO SCALE

GEOSYNTHETIC BERM DETAIL
NOT TO SCALE

NOTES:
1. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZE AND MAY CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS.
   1.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100 PERCENT, DRY, WEIGHT BASIS.
   1.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND A MINIMUM OF 70 PERCENT, MAXIMUM OF OF 85 PERCENT, PASSING A 3/4-INCH SCREEN.
   1.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
   1.4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
2. SUITABLE SALTS CONTENT SHALL BE LESS THAN 4.0.
3. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. TALL GRASSES MAY NEED TO BE CUT TO AVOID SPACES THAT WOULD ALLOW FINES TO WASH UNDER THE BARRIER.
4. FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.

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3. ELEVATIONS AS SHOWN HEREON ARE REFERENECED TO NAD 83.

4. EXISITNG TOPOGRAPHIC AND PLANNNIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY. INC.

5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.

6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.

7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

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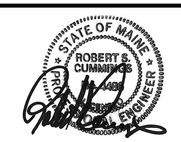


Drawing Title:

EROSION AND SEDIMENT CONTROL DETAILS AND NOTES

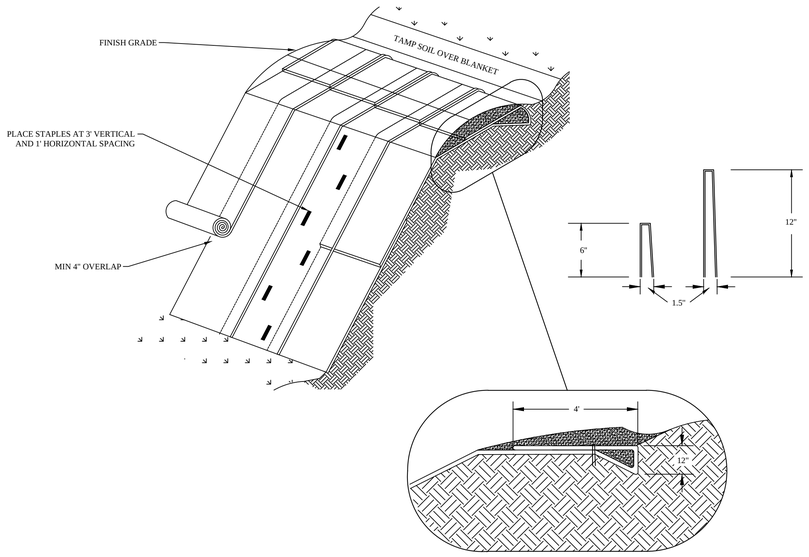
Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

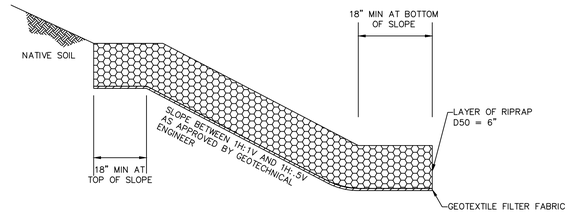
Sheet Number: 40 OF 44

Dwg No.: C-510-33



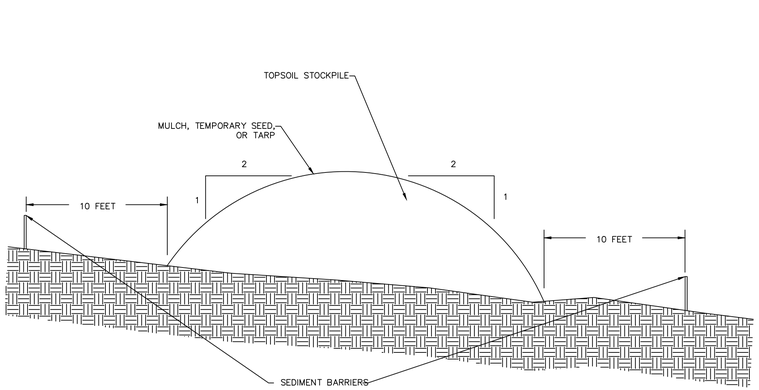
NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE OR MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. INSTALL BLANKETS WITH OVERLAPPING SEAMS RUNNING VERTICALLY DOWNSLOPE.

EROSION CONTROL BLANKET DETAIL (SLOPE)
NOT TO SCALE



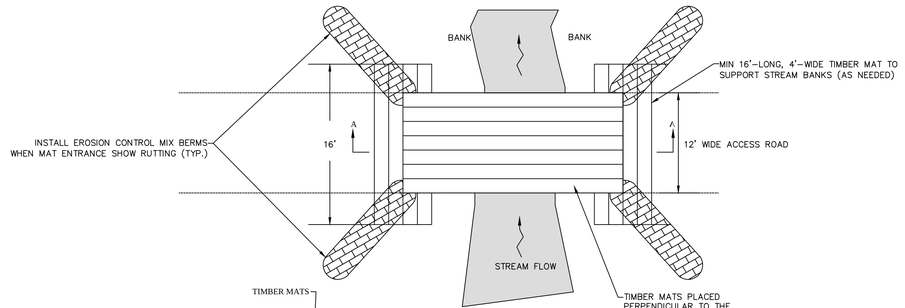
RIPRAP SLOPE STABILIZATION DETAIL
NOT TO SCALE

TRANSMISSION LINE CONSTRUCTION NOTES:
1. THE FOLLOWING MEANS AND METHODS ARE TO BE EMPLOYED DURING THE CONSTRUCTION OF THE TRANSMISSION LINE. THE PROPER TECHNIQUE WILL BE DETERMINED BASED ON THE CONDITIONS IN THE FIELD AFTER CONSULTATION WITH THE ENGINEER AND THIRD PARTY INSPECTOR.
2. IF CONSTRUCTION CANNOT BE COMPLETED WHILE THE GROUND IS FROZEN, TIMBER MATS SHOULD BE USED IN WETLANDS.
3. IN AREAS SHOWING A HIGH GROUND WATER TABLE OR WHERE HIGH WATER TABLE IS SUSPECTED, TIMBER MATTING CAN BE USED TO AVOID DAMAGING THE EXISTING SURFACE.
4. IN AREAS WHERE THERE IS A HIGH POSSIBILITY OF EROSION, EROSION CONTROL BARRIERS SHOULD BE INSTALLED.
5. IF UNDERDRAINAGE IS OPENED DURING THE COURSE OF CONSTRUCTION, SLASH CAN BE USED TO SEAL THE RUT.
6. ANY AREA THAT IS DAMAGED DURING CONSTRUCTION MUST BE RESTORED UPON COMPLETION.
7. IF RUTTING OCCURS AT THE ENTRANCES TO THE TIMBER MAT STRUCTURE, EROSION CONTROL MIX BERMS SHOULD BE INSTALLED AS SHOWN BELOW.

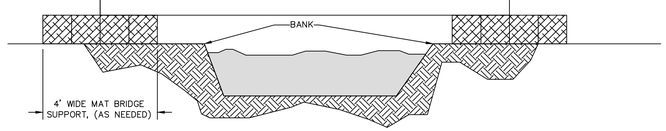


NOTES:
1. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
2. TOPSOIL STOCKPILES SHALL NOT OBSTRUCT WITH NATURAL DRAINAGE.
3. TOPSOIL STOCKPILES MUST BE MULCHED, TEMPORARILY SEEDED, OR TARPPED.
   3.1. TEMPORARY SEEDING OF TOPSOIL STOCKPILES MUST TAKE PLACE WITHIN 7 DAYS OF THE FORMATION OF THE STOCKPILE
   3.2. IN CRITICAL AREAS (NEAR LAKES, STREAMS, OR WETLANDS) TEMPORARY SEEDING SHALL BE COMPLETED WITHIN 24 HOURS.
4. SIDESLOPES OF TOPSOIL STOCKPILES SHALL NOT EXCEED 2H:1V.
5. WETLAND SOILS SHALL BE STOCKPILED SEPARATELY FROM UPLAND SOILS.

TOPSOIL STOCKPILE DETAIL
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



SECTION A-A VIEW
NOT TO SCALE

NOTES:
1. DEPLOY EROSION CONTROLS AS NEEDED TO MINIMIZE EROSION.
2. PERFORM ROUTINE INSPECTION TO INCLUDE REMOVAL OF LOOSE SOIL TRACKED ONTO BRIDGE BY EQUIPMENT AND INSPECTION OF STREAM BANKS FOR STABILITY
3. MATS SHALL BE POSITIONED TO MAINTAIN THE NATURAL STREAM CHARACTERISTICS.
4. MATS LAID PERPENDICULAR TO THE STREAM CAN BE SUBSTITUTED WITH PRE-FABRICATED BRIDGE STRUCTURES AS SPAN LENGTHS DICTATE OR AT THE PREFERENCE OF THE CONTRACTOR.
5. A MINIMUM BRIDGE WIDTH OF 16' SHALL BE USED DURING TIMBER REMOVAL ACTIVITIES.
6. BRIDGES USED FOR MULTIPLE CROSSINGS AND LONG TERM USE SHALL BE INSTALLED WITH FABRIC, SECONDARY DECKING, AND SIDE BOARDS.
7. IF RUTTING OCCURS AT THE ENTRANCES TO THE TIMBER MAT STRUCTURE, EROSION CONTROL MIX BERMS SHOULD BE INSTALLED AS SHOWN ABOVE..

TYPICAL "MAT" BRIDGE FOR TEMPORARY STREAM CROSSING
NOT TO SCALE

GENERAL NOTES:
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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

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Stamp:

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EROSION AND SEDIMENT CONTROL DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

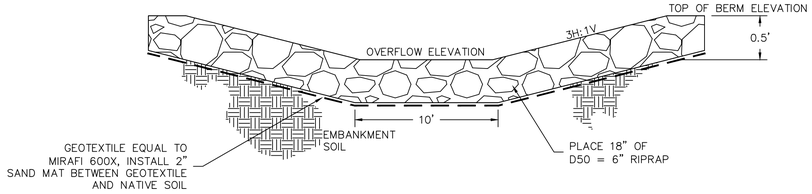
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 41 OF 44

Dwg No.: C-511-33

SOIL FILTER
STONE OVERFLOW DETAIL
DETAIL

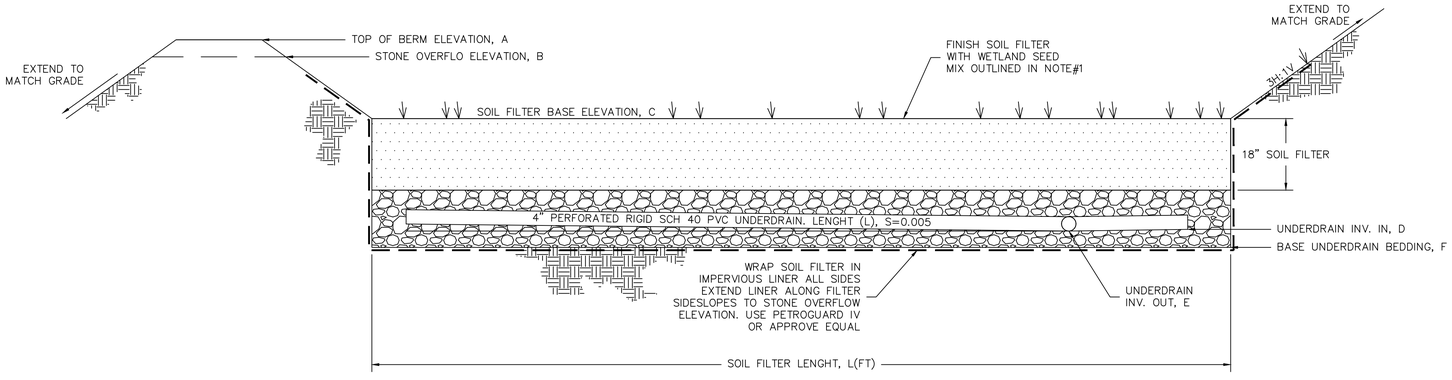
NOT TO SCALE



SOIL FILTER
SECTION DETAIL

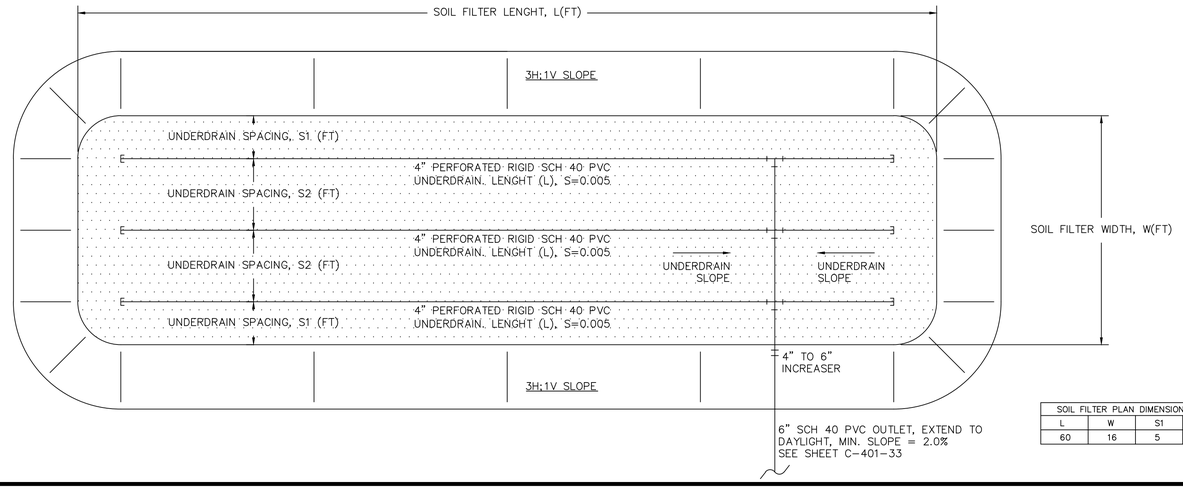
NOT TO SCALE

SOIL FILTER SECTION ELEVATIONS (FT)					
A	B	C	D	E	F
486	485.5	484.5	482.25	482.00	481.5



SOIL FILTER
AT O&M BUILDING PAD

NOT TO SCALE



SOIL FILTER PLAN DIMENSIONS (FT)			
L	W	S1	S2
60	16	5	3

SOIL FILTER NOTES

1. THE UNDERDRAINED SOIL FILLER MUST BE PLANTED WITH A SPECIES TOLERANT OF FREQUENT INUNDATION SUCH AS A WETLAND MIX CONTAINING THE FOLLOWING:

FOX SEDGE	BEARDED SEDGE	LURID SEDGE
SOFT RUSH	GRASS-LEAVED GOLDENROD	BONESET
HOP SEDGE	BLUE VERVAIN	NODDING SEDGE
GREEN BULRUSH	SENSITIVE FERN	BLUE FLAG IRIS
WOOLGRASS	SPOTLED JOE PYE WEED	SWAMP MILKWEED
MONKEY FLOWER	SOFT SLEM BULRUSH	HARD-SLEM BULRUSH
NODDING BUR MARIGOLD	FLAT-TOP ASLER	

2. SOIL MEDIA MUST CONSIST OF A SILTY SAND SOIL (SIEVE ANALYSIS – TABLE 1) COMBINED WITH 20% TO 25% BY VOLUME OF A MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH OR OTHER ORGANIC SOURCE APPROVED BY THE DEPARTMENT. THE RESULTING MIXTURE MUST HAVE NO LESS THAN 8% PASSING THE 200 SIEVE.

3. SOIL FILTER MEDIA SHALL BE LIGHTLY COMPACTED (90-92% STANDARD PROCTOR).

4. UNDERDRAIN BEDDING SHALL BE MOOT SPEC 703.22 – UNDERDRAIN BACK FILL MATERIAL, TYPE B (SIEVE ANALYSIS – TABLE 2).

5. NO RUNOFF IS TO BE DIRECTED TO SOIL FILTER UNTIL FINAL STABILIZATION HAS OCCURRED.

TABLE 1

SILTY SAND SOIL SIEVE ANALYSIS SPECIFICATION	
SIEVE SIZE	% BY WEIGHT
NO. 10	85-100
NO. 20	70-100
NO. 60	15-40
NO. 200	8-10

TABLE 2

BEDDING MATERIAL, MDOT #703.22	
SIEVE SIZE	% BY WEIGHT
UNDERDRAIN TYPE B	
1"	90-100
½"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

SOIL FILTER MAINTENANCE

1) CMW WILL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING THE UNDERDRAINED FILTERS. THE SPECIFIC MAINTENANCE DUTIES AND TIMETABLE IS SUGGESTED BELOW:

2) THE SOIL FILLER SHOULD BE INSPECTED AFTER EVERY MAJOR STORM IN THE FIRST FEW MONTHS TO ENSURE PROPER FUNCTION. THEREAFTER, THE FILTER SHOULD BE INSPECTED AT LEAST ONCE EVERY SIX MONTHS TO ENSURE THAT IT IS DRAINING WITHIN 24 HOURS

3) THE TOP SEVERAL INCHES OF THE FILLER SHALL BE REPLACED WITH FRESH MATERIAL WHEN WATER PONDS ON THE SURFACE OF THE BED FOR MORE THAN 72 HOURS. THE REMOVED SEDIMENTS SHOULD BE DISPOSED IN AN ACCEPTABLE MANNER.

4) SEDIMENT AND PLANT DEBRIS SHOULD BE REMOVED FROM THE PRETREATMENT STRUCTURE AT LEAST ANNUALLY.

5) FILTERS SHOULD BE MOWED NO MORE THAN 2 TIMES PER GROWING SEASON TO MAINTAIN GRASS HEIGHTS LESS THAN 12 INCHES.

6) FERTILIZATION OF THE UNDERDRAINED FILTER AREA SHOULD BE AVOIDED UNLESS ABSOLUTELY NECESSARY TO ESTABLISH VEGETATION.

7) HARVEST AND PRUNE EXCESSIVE GROWTH AS NEEDED TO CONTROL WEEDS AND INVASIVE PLANTS.

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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
7 ALLEN ROAD, ROCHESTER, MA 02770
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Stamp:

STATE OF MAINE
ROBERT S. CUMMINGS
PROFESSIONAL ENGINEER

Drawing Title:

UNDERDRAIN SOIL FILTER DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

Project: CANTON MOUNTAIN WIND PROJECT
CANTON, ME

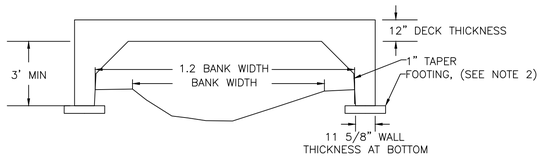
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 42 OF 44

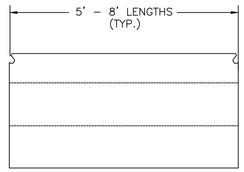
Dwg No.: C-512-33

STREAM CROSSINGS DETAIL

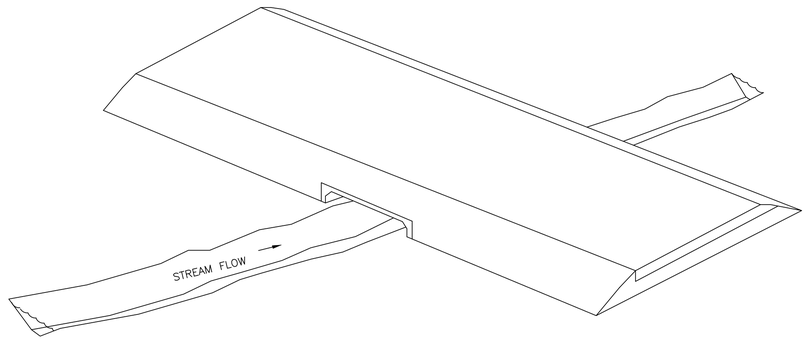
NOT TO SCALE



LONGITUDINAL SECTION VIEW
NOT TO SCALE



TRANSVERSE SECTION VIEW
NOT TO SCALE



ISOMETRIC VIEW
NOT TO SCALE

NOTES:

1. CULVERT/BRIDE STRUCTURE MUST PROVIDE AN OPENING WITH A CROSS–SECTIONAL AREA AT LEAST EQUAL TO 3 TIMES THE CROSS–SECTIONAL AREA OF THE STREAM CHANNEL OR SUFFICIENT IN SIZE TO ACCOMMODATE 25–YEAR FREQUENCY WATER FLOWS.

2. CULVERT/BRIDE STRUCTURE TO BE PRECAST OR MODULAR CONCRETE BLOCKS WITH PRECAST PANELS

3. CULVERT/BRIDE STRUCTURE MUST BE INSTALLED IN A MANNER TO PREVENT EROSION OF MATERIAL INTO THE RIVER,STREAM OR BROOK.

4. WHEELED OR TRACKED EQUIPMENT MAY NOT OPERATE IN THE WATER. EQUIPMENT OPERATING ON THE SHORE MAY, WHERE NECESSARY, REACH INTO THE WATER WITH A BUCKET OR SIMILAR EXTENSION. EQUIPMENT MAY CROSS STREAMS ON ROCK, GRAVEL OR LEDGE BOTTOM.

5. IF THE CROSSING INVOLVES TRENCHING OR DISTURBANCE OF SUBSTRATE IN A RIVER, STREAM OR BROOK BETWEEN OCTOBER 2 AND JULY 14, THE ACTIVITY MUST OCCUR DURING THE TIME PERIOD APPROVED BY THE DEP. THE APPROVED TIME PERIOD MAY BE THE TIME PERIOD PROPOSED BY THE APPLICANT OR AN ALTERNATIVE TIME PERIOD APPROVED BY THE DEP. AN ALTERNATIVE TIME PERIOD WILL BE REQUIRED WHERE IT APPEARS AN UNREASONABLE IMPACT ON WATER QUALITY OR FISHERIES MAY RESULT AT THE POINT OF CROSSING OR IMMEDIATELY DOWNSTREAM OF THE CROSSING. THE APPLICANT WILL BE NOTIFIED BY THE DEP WITHIN 14 DAYS IF AN ALTERNATIVE TIME PERIOD, OTHER THAN THE ONE PROPOSED BY THE APPLICANT, IS REQUIRED FOR CONSTRUCTING THE CROSSING.

6. ALL EXCAVATED MATERIAL MUST BE STOCKPILED EITHER OUTSIDE THE WETLAND OR ON MATS OR PLATFORMS.

7. HAY BALES, SILT FENCE OR EROSION CONTROL MIX BERM MUST BE USED, WHERE NECESSARY, TO PREVENT SEDIMENTATION.

8. SPECIAL CULVERT SECTION RESTS ON SMALL FOOTINGS, WHERE THE VENDOR OR CONTRACTOR DEEMS NEEDED

9. USE SPECIAL CULVERT SECTION FOR STREAMS OF SPECIAL INTEREST.

10. HEIGHT AND TOTAL SPAN WILL VARY AT BRIDGE CROSSINGS.

11. INTERIOR OF CULVERT TO BE CLEAR OF RIPRAP BACK FILL AND DEBRIS

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"X36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.

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Drawing Title:

CULVERT/ BRIDGE STRUCTURE DETAILS AND NOTES

Date:	Scale:
12/15/11	AS SHOWN
Drawn By: GAD	Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 43 OF 44

Dwg No.: C–513–33

Canton Mountain Wind Project

Stormwater Treatment Calculations:
Watersheds draining to the Androscoggin River, Webb River and Sevenmile Stream Watershed
Chapter 500, Stormwater Management, Section 4.B.(3).(c) describes a linear project.
Required stormwater treatment of impervious area = 75%

BMP ID Legend
BF = Forested buffer adjacent to road/small impervious area
BM = Meadow buffer adjacent to road/small impervious area
LSF = Forested level lip spreader buffer
LSM = Meadow level lip spreader buffer
DTF = Forested Ditch Turnout
DTM = Meadow Ditch Turnout

Road ID	Station Location				BMP ID	Soil HSG	Buffer Slope (ft./ft.)	Buffer	Impervious Area	Impervious Area Treated
Access Road	82+06	to	95+68	-	-	-	-	-	0.375	0.000
Access Road	95+68	to	97+90	R	BF 1	C	< 0.24	35	0.061	0.061
Access Road	97+90	to	99+95	R	BF 2	C	< 0.24	35	0.056	0.056
Access Road	99+95	to	100+65	R	BF 3	C	< 0.24	35	0.019	0.019
Access Road	100+65	to	101+65	R	BF 4	C/D	< 0.30	35	0.028	0.028
Access Road	101+65	to	102+35	-	-	-	-	-	0.019	0.000
Access Road	102+35	to	105+15	R	BF 5	C/D	< 0.24	35	0.077	0.077
Access Road	105+15	to	105+60	-	-	-	-	-	0.012	0.000
Access Road	105+60	to	108+20	R	BF 6	C/D	< 0.30	35	0.072	0.000
Access Road	108+20	to	109+10	R	BF 7	C/D	> 0.30	35	0.025	0.025
Access Road	109+10	to	110+35	R	BF 8	C/D	> 0.30	35	0.034	0.034
Access Road	110+35	to	111+58	R	BF 9	C/D	< 0.30	35	0.034	0.034
Access Road	111+58	to	113+35	R	BF 10	C/D	> 0.30	35	0.049	0.049
Access Road	113+35	to	114+80	R	BF 11	C/D	< 0.30	35	0.040	0.040
Access Road	114+80	to	115+30	R	BF 12	C/D	< 0.24	35	0.014	0.014
Access Road	115+30	to	117+65	-	-	-	-	-	0.062	0.000
Access Road	117+65	to	118+82	L	BF 13	C/D	< 0.24	35	0.036	0.036
Crane Road 1	00+00	to	00+80	R	-	-	-	-	0.039	0.000
Crane Road 1	00+80	to	02+40	R	BF 14	C/D	> 0.30	35	0.044	0.044
Crane Road 1	02+40	to	05+20	R	BF 15	C/D	> 0.30	35	0.077	0.077
Crane Road 1	05+20	to	08+20	R	BF 16	C	> 0.30	35	0.083	0.083
Crane Road 1	08+20	to	10+15	-	-	-	-	-	0.054	0.000
Crane Road 1	10+15	to	11+75	R	BF 17	C/D	< 0.24	35	0.044	0.044
Crane Road 1	11+75	to	12+65	R	BF 18	C/D	< 0.24	35	0.025	0.025
Crane Road 1	12+65	to	13+20	R	BF 19	C	< 0.24	35	0.015	0.015
Crane Road 1	13+20	to	14+40	R	BF 20	C	< 0.24	35	0.033	0.033
Crane Road 1	14+40	to	16+00	R	BF 21	C	< 0.24	35	0.044	0.044
Crane Road 1	16+00	to	18+60	R	BF 22	C/D	< 0.24	35	0.072	0.072
Crane Road 1	18+60	to	22+05	R	BF 23	C/D	< 0.24	35	0.095	0.095
Crane Road 1	22+05	to	23+84	R	BF 24	C/D	< 0.24	35	0.049	0.049
Crane Road 2	00+00	to	00+95	-	-	-	-	-	0.026	0.000
Crane Road 2	00+95	to	03+10	L	BF 25	C/D	< 0.24	35	0.059	0.059
Crane Road 2	03+10	to	03+80	-	-	-	-	-	0.019	0.000
Crane Road 2	03+80	to	07+80	R	BF 26	C/D	< 0.24	35	0.110	0.110
Crane Road 2	07+80	to	09+80	R	BF 27	C/D	< 0.24	35	0.055	0.055
Crane Road 2	09+80	to	11+15	R	BF 28	C/D	< 0.24	35	0.037	0.037
Crane Road 2	11+15	to	11+95	L	BF 29	C/D	< 0.30	35	0.022	0.022
Crane Road 2	11+95	to	15+30	L	BF 30	C/D	< 0.30	35	0.092	0.092
Crane Road 2	15+30	to	18+50	L	BF 31	C/D	< 0.30	35	0.088	0.088
Crane Road 2	18+50	to	22+20	L	BF 32	C/D	> 0.30	35	0.102	0.102
Crane Road 2	22+20	to	25+50	L	BF 33	C/D	< 0.30	35	0.091	0.091
Crane Road 2	25+50	to	29+00	-	-	-	-	-	0.096	0.000
Crane Road 2	29+00	to	31+25	L	BF 43	C/D	< 0.24	35	0.062	0.062
Crane Road 2	31+25	to	34+60	-	-	-	-	-	0.092	0.000
Crane Road 2	34+60	to	36+30	L	BF 34	C/D	< 0.24	35	0.047	0.047
Crane Road 2	36+30	to	39+25	L	BF 44	C/D	< 0.24	35	0.081	0.081
Crane Road 2	39+25	to	41+15	L	BF 35	C/D	< 0.24	35	0.052	0.052
Crane Road 2	41+15	to	43+35	-	-	-	-	-	0.061	0.000
Crane Road 2	43+35	to	47+35	R	BF 37	C/D	< 0.24	35	0.110	0.110
Crane Road 2	47+35	to	47+85	R	BF 38	C/D	< 0.24	35	0.014	0.014

Canton Mountain Wind Project

Stormwater Treatment Calculations:
Watersheds draining to the Androscoggin River, Webb River and Sevenmile Stream Watershed
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Required stormwater treatment of impervious area = 75%

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LSM = Meadow level lip spreader buffer
DTF = Forested Ditch Turnout
DTM = Meadow Ditch Turnout

Road ID	Station Location	BMP ID	Soil HSG	Buffer Slope (ft./ft.)	Buffer	Impervious Area	Impervious Area Treated
T01	Turbine Pad Access	BF 39	C/D	< 0.24	150	0.032	0.032
T01	Crane Pad	BF 39	C/D	< 0.24	150	0.092	0.092
T01	Turbine Gravel Ring	BF 39	C/D	< 0.24	150	0.016	0.016
T01	Turbine Foundation	BF 39	C/D	< 0.24	150	0.010	0.010
T02	Turbine Pad Access	BF 40	C/D	< 0.24	150	0.059	0.059
T02	Crane Pad	BF 40	C/D	< 0.24	150	0.092	0.092
T02	Turbine Gravel Ring	BF 40	C/D	< 0.24	150	0.016	0.016
T02	Turbine Foundation	BF 40	C/D	< 0.24	150	0.010	0.010
T03	Turbine Pad Access	BF 41	C/D	< 0.30	150	0.069	0.069
T03	Crane Pad	BF 41	C/D	< 0.30	150	0.092	0.092
T03	Turbine Gravel Ring	BF 41	C/D	< 0.30	150	0.016	0.016
T03	Turbine Foundation	BF 41	C/D	< 0.30	150	0.010	0.010
T04	Turbine Pad Access	BF 42	C/D	< 0.30	150	0.013	0.013
T04	Crane Pad	BF 42	C/D	< 0.30	150	0.092	0.092
T04	Turbine Gravel Ring	BF 42	C/D	< 0.30	150	0.016	0.016
T04	Turbine Foundation	BF 42	C/D	< 0.30	150	0.010	0.010
T05	Turbine Pad Access	BF 43	C/D	> 0.30	150	0.013	0.013
T05	Crane Pad	BF 43	C/D	> 0.30	150	0.092	0.092
T05	Turbine Gravel Ring	BF 43	C/D	> 0.30	150	0.016	0.016
T05	Turbine Foundation	BF 43	C/D	> 0.30	150	0.010	0.010
T06	Turbine Pad Access	BF 44	C/D	< 0.24	150	0.008	0.008
T06	Crane Pad	BF 44	C/D	< 0.24	150	0.092	0.092
T06	Turbine Gravel Ring	BF 44	C/D	< 0.24	150	0.016	0.016
T06	Turbine Foundation	BF 44	C/D	< 0.24	150	0.010	0.010
T07	Turbine Pad Access	BF 45	C/D	< 0.24	150	0.041	0.041
T07	Crane Pad	BF 45	C/D	< 0.24	150	0.092	0.092
T07	Turbine Gravel Ring	BF 45	C/D	< 0.24	150	0.016	0.016
T07	Turbine Foundation	BF 45	C/D	< 0.24	150	0.010	0.010
T08	Turbine Pad Access	BF 46	C/D	< 0.30	150	0.044	0.044
T08	Crane Pad	BF 46	C/D	< 0.30	150	0.092	0.092
T08	Turbine Gravel Ring	BF 46	C/D	< 0.30	150	0.016	0.016
T08	Turbine Foundation	BF 46	C/D	< 0.30	150	0.010	0.010
O&M Building	O&M Building Pad Access	LSF 26	C/D	0.110	-	0.110	0.000
O&M Building	O&M Building Pad	LSF 26	C/D	0.110	-	0.260	0.260
					Totals:	4.597	3.560

Percentage Impervious Area Treated:	77.42%
Percentage Required:	75.00%

Canton Mountain Wind Project

Stormwater Culvert Schedule:

Culvert	Road/Site ID	Station	Drainage	Q25	Culvert	Length	Inv. In	Inv. Out	Slope (ft./ft.)
RC-1	Ludden Lane	00+11	-	-	18	-	-	-	-
RC-2	Ludden Lane	07+80	-	-	15	-	-	-	-
RC-3	Ludden Lane	08+20	-	-	15	-	-	-	-
RC-4	Ludden Lane	10+91	-	-	15	-	-	-	-
RC-5	Ludden Lane	12+55	-	-	15	-	-	-	-
RC-6	Ludden Lane	15+25	-	-	12	-	-	-	-
RC-7	Ludden Lane	17+08	-	-	12	-	-	-	-
RC-8	Ludden Lane	19+95	-	-	15	-	-	-	-
RC-9	SIDE ROAD	-	-	-	12	-	-	-	-
RC-10	Ludden Lane	22+40	-	-	12	-	-	-	-
RC-11	Ludden Lane	26+40	-	-	15	-	-	-	-
RC-12	Ludden Lane	26+82	-	-	12	-	-	-	-
RC-13	Ludden Lane	30+25	-	-	15	-	-	-	-
RC-14	Ludden Lane	34+82	-	-	15	-	-	-	-
RC-15	Ludden Lane	37+64	-	-	15	-	-	-	-
RC-16	Ludden Lane	41+22	-	-	15	-	-	-	-
RC-17	Ludden Lane	47+55	-	-	18	-	-	-	-
RC-18	Ludden Lane	49+70	-	-	15	-	-	-	-
RC-19	Ludden Lane	59+50	-	-	15	-	-	-	-
RC-20	Ludden Lane	64+20	-	-	18	-	-	-	-
RC-21	Ludden Lane	66+61	-	-	15	-	-	-	-
RC-22	Ludden Lane	68+64	-	-	18	-	-	-	-
RC-23	Logging road	00+48	-	-	24	-	-	-	-
RC-24	Logging road	10+82	-	-	18	-	-	-	-
RC-25	Logging road	12+16	-	-	15	-	-	-	-
RC-26	Logging road	14+90	-	-	15	-	-	-	-
RC-27	Logging road	19+20	-	-	15	-	-	-	-
RC-28	Logging road	25+25	-	-	15	-	-	-	-
RC-29	Logging road	36+30	-	-	18	-	-	-	-
RC-30	Logging road	53+72	-	-	30	-	-	-	-
RC-31	SIDE ROAD	-	-	-	24	-	-	-	-
PC-1	Access Road	84+50	1.38	4.25	12	40	1183	1182	0.025
PC-2	Access Road	96+53	1.42	4.1	12	50	1238	1234	0.080
PC-3	Access Road	97+95	15.57	44.84	24	38	1256.5	1255.5	0.026
PC-4	Access Road	105+20	8.26	23.81	24	47	1349	1348	0.021
PC-5	Access Road	111+10	0.83	2.38	12	40	1427	1426	0.025
PC-6	Access Road	115+92	2.53	6.86	18	72	1472	1469	0.042
PC-7	Lower Ridge Road	00+62	0.83	2.38	12	76	1476	1472	0.053
PC-8	Lower Ridge Road	04+12	1.01	2.91	12	63	1456	1455	0.016
PC-9	Lower Ridge Road	06+70	0.55	1.59	12	50	1433	1432	0.020
PC-10	Lower Ridge Road	08+60	2.87	8.27	18	48	1409	1406	0.063
PC-11	Lower Ridge Road	15+95	5.17	14.88	18	52	1334.5	1333	0.029
PC-12	T02 PAD	-	0.53	1.52	12	55	1509	1508	0.018
PC-13	Upper Ridge Road	16+75	1.38	3.97	12	55	1509	1508	0.018
PC-14	Upper Ridge Road	20+25	0.69	1.98	12	37	1506	1504	0.054

RC: Replacement Culvert
PC: Proposed Culvert

Notes:
1. Provide minimum 2% slope on all culverts.
2. Culvert lengths are approximate. May require adjustment to fit field conditions

Canton Mountain Wind Project

Underdrained Soil filter Sizing Calculations

O&M Building Pad Soil Filter
(Plan Sheets C-401-33 & C-512-33

Area Draining to Soil Filter

Impervious Area	10,500	(gravel road surface)
Developed Area	11,500	(road side ditch and cut slopes)

Treatment Volume

Impervious Area x 1.0 in. =	875	cf
Developed Area x 0.4 in. =	384	cf
Volume Required =	1259	cf
Surface area elev. 485.5 =	1406	sf
Surface area elev. 484.5 =	942	sf
Volume Provided =	2348	sf

Filter Area at Soil Filter Base Elevation 1006.0

Impervious Area x 0.05 =	525	sf
Developed Area x 0.02 =	230	sf
Area Required =	755	sf
Area Provided =	942	sf

Canton Mountain Wind Project

BMP Sizing Schedule:

BMP ID	Length (ft.)
DT-01	10
DT-02	10
DT-03	10
DT-04	10
DT-05	10
DT-06	10
LS-01	10
LS-02	10
LS-03	15
LS-04	15

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Stamp:

Drawing Title:

CANTON MOUNTAIN STORMWATER TREATMENT TABLES AND CULVERT SCHEDULE

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 44 OF 44	

Dwg No.: C-601-33