PUBLIC NOTICE

US Army Corps
of Engineers
New York District, CENAN-OP-R
Upstate Regulatory Field Office
1 Buffington Street, Bldg. 10, 3rd Floor
Watervliet, New York 12189-4000

In replying refer to:
Public Notice Number: NAN-2007-00147-WDE
Issue Date: March 31, 2008
Expiration Date: April 30, 2008

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S. C. 1344).

APPLICANT: Marble River, LLC
3 Columbia Place
Albany, New York 12207

ACTIVITY: Discharge fill material into waters of the United States to facilitate the construction and operation of a 218 megawatt (MW) wind-powered electric generating facility.

WATERWAY: Wetlands and tributaries within the Lake Champlain and St. Lawrence River watersheds.

LOCATION: Towns of Clinton and Ellenburg, Clinton County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO THE ATTENTION OF CHRISTINE DELORIER AT THE ABOVE ADDRESS, OR SENT VIA ELECTRONIC MAIL TO christine.delorier@usace.army.mil TO REACH THIS OFFICE BY THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon information supplied by the New York State Office of Parks, Recreation and Historic Preservation (SHPO), 65 properties exist within the project vicinity that meet the criteria for inclusion in the National Register of Historic Places. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit. This office will continue to coordinate with the SHPO to ensure that the requirements of Section 106 of the National Historic Preservation Act are satisfied.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration: local approvals from Towns of Clinton and Ellenburg; Planning Board approval, PILOT approval and highway work permits from Clinton County; SPDES authorization and Article 15 and 24 permits from the NYSDEC; Highway Work permits from the NYSDOT; certification from the New York State Public Service Commission; and approvals from the Federal Aviation Administration.

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Christine Delorier of this office at (518) 266-6354.

For more information on New York District Corps of Engineers programs, visit our website at http://www.nan.usace.army.mil

FOR Richard L. Tomer
Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

The applicant, Marble River, LLC, has requested Department of the Army (DA) authorization to discharge fill material into waters of the United States to facilitate the construction and operation of a 218 megawatt (MW) wind-powered electric generating facility throughout the Towns of Clinton and Ellenburg, Clinton County, New York.

Proposed activities requiring DA authorization would result in permanent impacts to a total of 8.22 acres of wetlands (2.86 acres forested, 2.40 acres scrub shrub and 2.96 acres emergent) and 870.40 linear feet of streams. An additional 32.24 acres of wetlands (9.09 acres forested, 12.11 acres scrub shrub and 11.04 acres emergent) and 1,888.69 linear feet of streams would be temporarily impacted to facilitate the construction of the project. Last, a total of 21.36 acres of forested wetlands would be permanently converted to either scrub shrub or emergent wetlands as described below. The following is a breakdown of activities involving impacts to Department of the Army jurisdictional areas:

Turbines/Crane Pads: A total of 109 wind turbine generators would be constructed as part of this project, with 88 located in the Town of Clinton and 21 in the Town of Ellenburg. Each turbine has a generating capacity of 2 MW. The construction of each turbine requires a 200 foot radius cleared area centered at the unit. The applicant proposes temporary impacts to 2.80 acres of wetlands to provide this cleared area at several of the proposed turbines. The cleared area would allow for the turbine's blades to be assembled on the ground and then erected as one unit. A permanent, 60 foot by 100 foot crane pad would be left behind in the cleared area of each turbine. The establishment of the crane pads would not result in the permanent loss of waters of the United States.

Access Roads: Approximately 42 miles of gravel access roads would be constructed to provide access to the wind turbine generators. The discharge of fill material to construct these access roads would result in 8.01 acres of permanent wetlands impacts and 870.40 linear feet of permanent stream impacts, as well as 12.66 acres of temporary wetland impacts and 1,003.44 linear feet of temporary stream impacts. The width of each access road would either be 16, 20 or 34 feet. To adequately install the roads in terms of appropriate clearing and grubbing widths, erosion and sedimentation controls, adequately sized culverts, vertical slopes and ditch lines, the 16 foot wide road would have a temporary impact width of 36 feet, and a permanent impact width of 22 feet. The 20 foot wide access road would have a temporary impact width of 40 feet and a permanent impact width of 26 feet. The 34 foot wide road would have a temporary impact width of 54 feet and a permanent impact width of 40 feet. To reduce the number of new access roads to be constructed, the applicant proposes to upgrade existing public roads, including Jones Road, Merchia Road, Scoucia Road, Patnode Road and Liberty Pole Road. An additional 0.10 acre of temporary wetland impacts are proposed to facilitate these road improvements, which consist of culvert replacements, intersection improvements and the widening of roads.

Underground Electrical Collection System: Approximately 55 miles of underground electric collection cables, rated at 34.5kV, would be installed to connect the turbines to the proposed substation. A total of 13.65 acres of wetlands and 686.77 linear feet of streams would be temporarily impacted to facilitate the installation of these utility lines. The underground electrical collection system is designed by circuits, with each separate circuit requiring a separate trench for installation. A single trench installation would have a 35 foot wide cleared area to complete the work. For areas

where there are multiple trenches, an additional 10 feet of temporary impact would be required per trench. When the underground collection system is co-located with the proposed access roads, the temporary impact width is reduced to 10 feet from the edge of the proposed road.

Overhead Electrical Collection System: Approximately 10 miles of overhead electric collection cables, also rated at 34.5kV, would be installed to connect the turbines to the proposed substation. A total of 0.02 acre of wetlands would be permanently filled as a result. Temporary impacts to 2.58 acres of wetlands and 198.48 linear feet of streams are also proposed to facilitate the installation of these utility lines. The permanent impacts are associated with the installation of utility poles. Each impact is 4 feet in diameter. The temporary impacts are associated with the construction of 12 foot wide access roads needed to install the poles, string the poles and clear an 80 foot wide right-of-way (ROW). This ROW would be maintained by utilizing non-jurisdictional vegetation removal methods on an as needed basis to ensure that the growth of trees does not reach a height that would impede the overhead collection system. A total of 21.36 acres of forested wetlands would be converted to scrub shrub or emergent wetland cover types in order to maintain the ROW.

Substation: A combined interconnection and step-up substation would be constructed off of Patnode Road. The power generated by the turbines and brought to the substation through the collection system would be stepped up from 34.5 kV to 230 kV. Then, it would be delivered into the New York Power Authority transmission system on an existing 230 KV line that passes through the project site. The construction of the 5.79 acre substation would result in permanent impacts to 0.19 acre of wetlands and temporary impacts to 0.45 acre of wetlands.

Wetlands and streams temporarily impacted for the above activities would be restored to preconstruction contours and re-vegetated with native plant species after the construction activities are complete. The maximum duration of any proposed temporary impact is one year. With the exception of the forested conversion areas described above, all wetlands would be restored to pre-existing cover types. Temporary cofferdams would also be used to facilitate in-stream construction activities at road and underground electrical transmission line crossings.

The construction of the remaining project components, including construction laydown and staging areas, three meteorological towers and an operations and maintenance facility would occur in uplands. The anticipated life of the project is 20 years, after which the applicant would review the existing technology to determine whether it is reliable, evaluate the option to "re-power" with more efficient wind turbines, or the applicant would implement a decommission plan and remove the wind turbines.

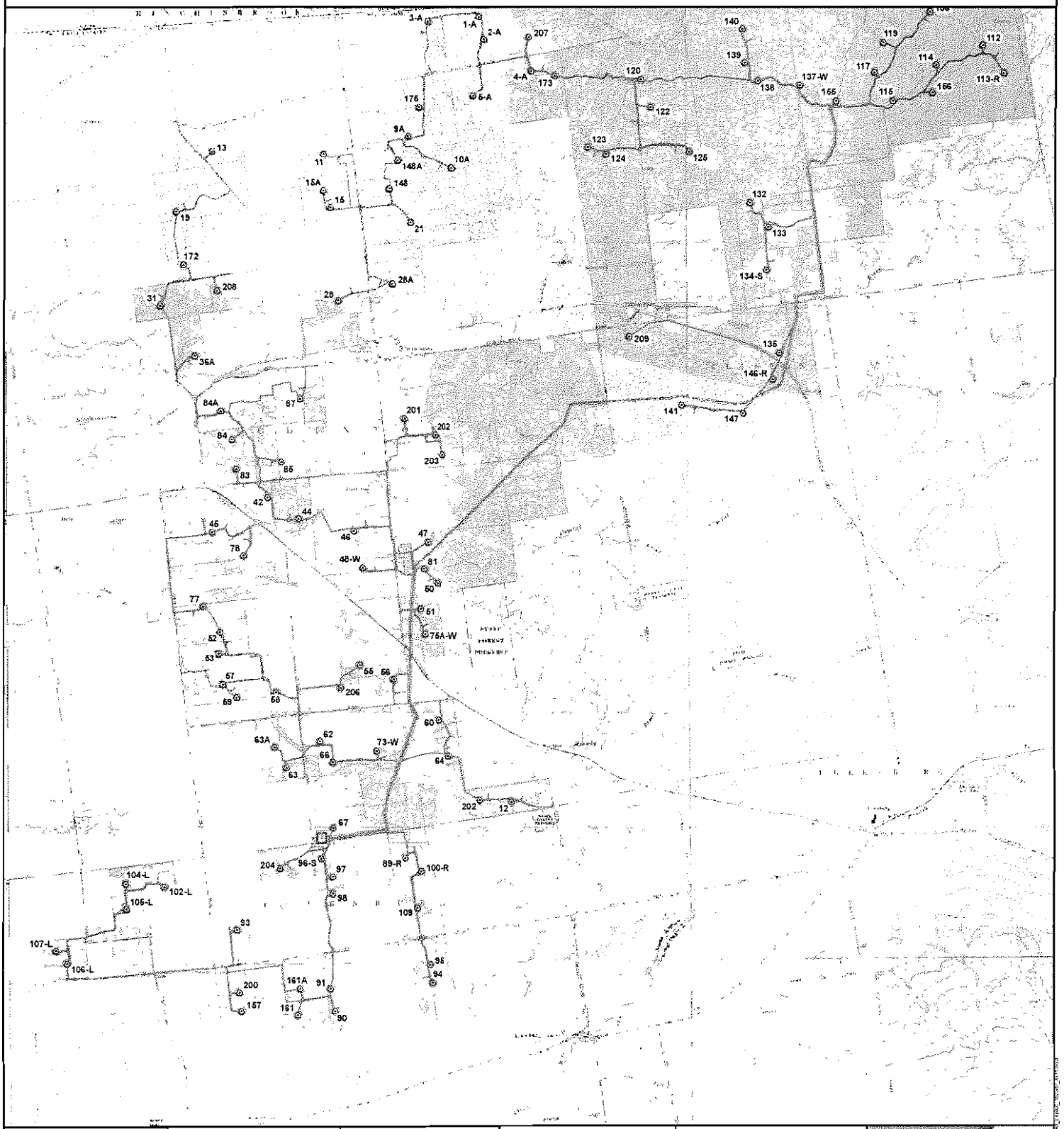
As mitigation for the permanent impacts to wetlands, the applicant proposes to establish, restore and enhance a total of 11.05 acres of wetlands (4.61 acres forested, 3.48 acres scrub shrub and 2.96 acres emergent) at six sites throughout the project area. The applicant also proposes to establish 0.44 acre of wetlands (0.43 acre forested and 0.01 acre emergent) at the Clookey 1 mitigation site to be credited towards any unforeseen permit modifications. As mitigation for the conversion of forested wetlands to other cover types, the applicant proposes to establish 10.83 acres of forested wetlands from uplands, restore 3.62 acres of disturbed forested wetlands, and enhance 4.49 acres of existing emergent and scrub shrub wetlands through the planting of trees, all at the six mitigation sites mentioned above. Therefore, the total wetland mitigation proposed at the six sites would consist of the following: the enhancement of 0.59 acres of emergent wetlands, the restoration of 1.47 acres of

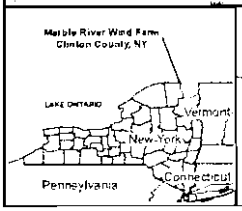
emergent wetlands, the establishment of 0.91 acres of emergent wetlands, the establishment of 3.48 acres of scrub shrub wetlands and the establishment of 2.18 acres of forested wetlands at the Clookey I mitigation site; the enhancement of 1.84 acres of forested wetlands and the establishment of 0.82 acres of forested wetlands at the Clookey II mitigation site; the restoration of 1.31 acres of forested wetlands and the establishment of 4.38 acres of forested wetlands at the Matthews mitigation site; the enhancement of 1.48 acres of forested wetlands, the restoration of 2.31 acres of forested wetlands and the establishment of 2.45 acres of forested wetlands at the Cole mitigation site; the enhancement of 0.48 acres of forested wetlands and the establishment of 2.45 acres of forested wetlands at the Spoor mitigation site; and the enhancement of 0.69 acre of forested wetlands and the establishment of 3.59 acre of forested wetlands at the McNeil mitigation site. Comprehensive plans for the mitigation described above have not been finalized to date.

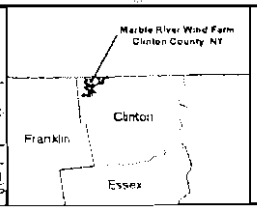
As mitigation for the permanent impacts to streams, the applicant proposes to install environmentally friendly culverts (i.e. bottomless or oversized culverts with a gravel base) at all proposed surface water body crossings, and install environmentally friendly culverts along 458.16 linear feet of currently affected surface water bodies that have inadequately sized culverts or where no culverts were installed at the road crossing. In addition, 125 linear feet of stream bank along the English River at the Spoor mitigation site and 400 linear feet of stream bank along an unnamed tributary to Brandy Brook at the McNeil mitigation site would be restored, a cattle crossing would be constructed across the Hinchinbrook Brook at the Matthews mitigation site and a watering area would be constructed along the English River at the Spoor mitigation site. Detailed plans for the stream mitigation effort have also not been finalized to date.

The applicant's stated purpose of the proposed work is to construct access roads, underground and overhead collection systems, public road upgrades, and turbine construction areas to facilitate the development and construction of a wind farm electric generating facility consisting of 109 wind turbine generators.

MARBLE RIVER WIND FARM







Legend

- Turbine Location
- Project Layout
- Substation
- Leydown Area
- Project Boundary

Marble River Wind Farm

Project Layout over USGS Topo

Feet: 0, 1,500, 3,000, 6,000

Miles: 0, 0.25, 0.5, 1

TETRA TECH

NAD 1983 StatePlane New York East (Feet)
Projection: Transverse Mercator

Sources
USGS Topographic Maps: Churubusco, Ellenburg Center, Ellenburg Depot, Ellenburg Mt, Brainardsville, Chateaugay
Project Layout: URS, Horizon Wind Energy and Tetra Tech EC, Inc

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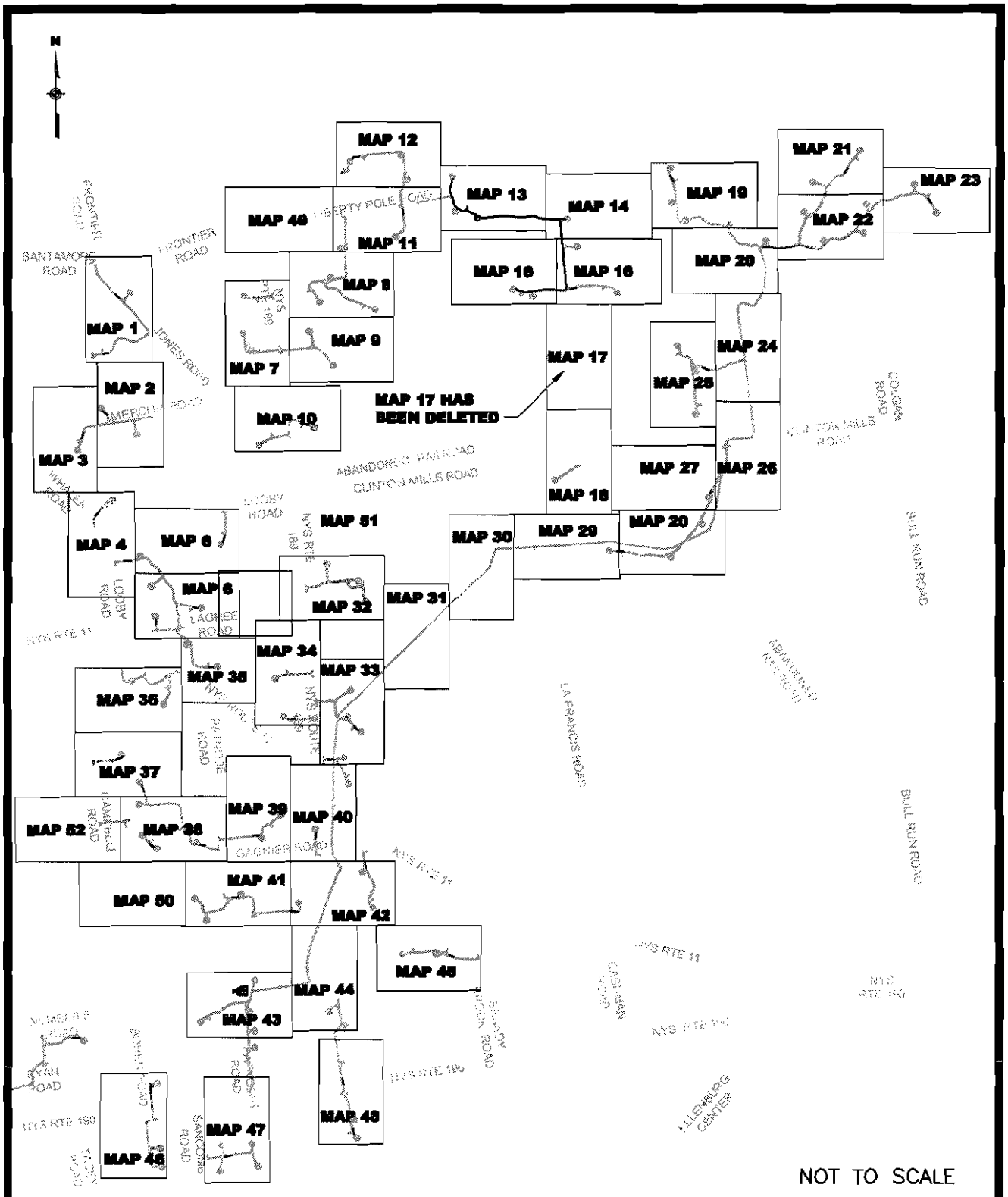

NOT TO SCALE

REV. 1	03/04/08	MAP 17 DELETED

CLIENT:

MARBLE RIVER, LLC

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

KEY MAP

DATE: DECEMBER 2007

FIGURE 1

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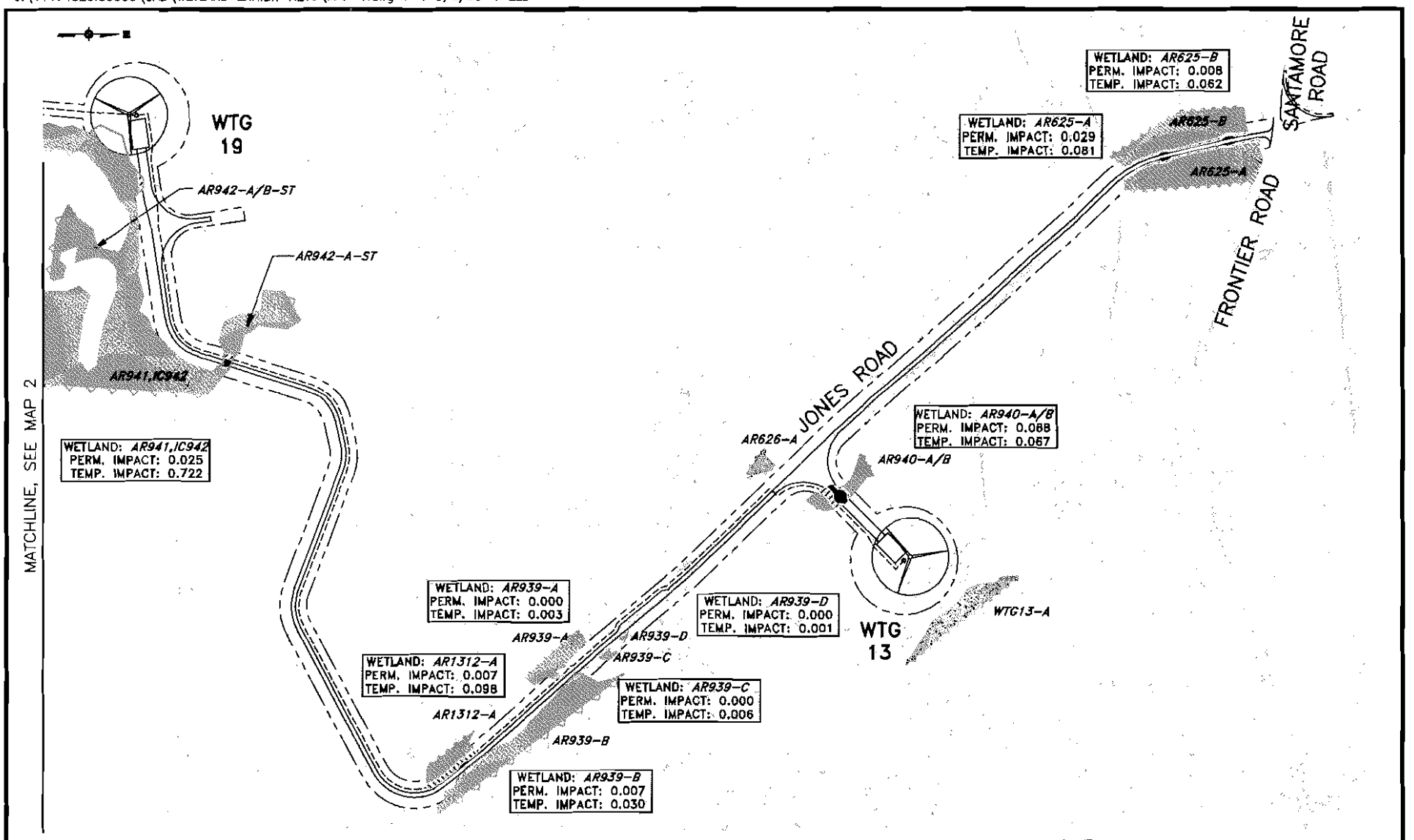

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
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- TEMPORARY WETLAND IMPACT
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- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

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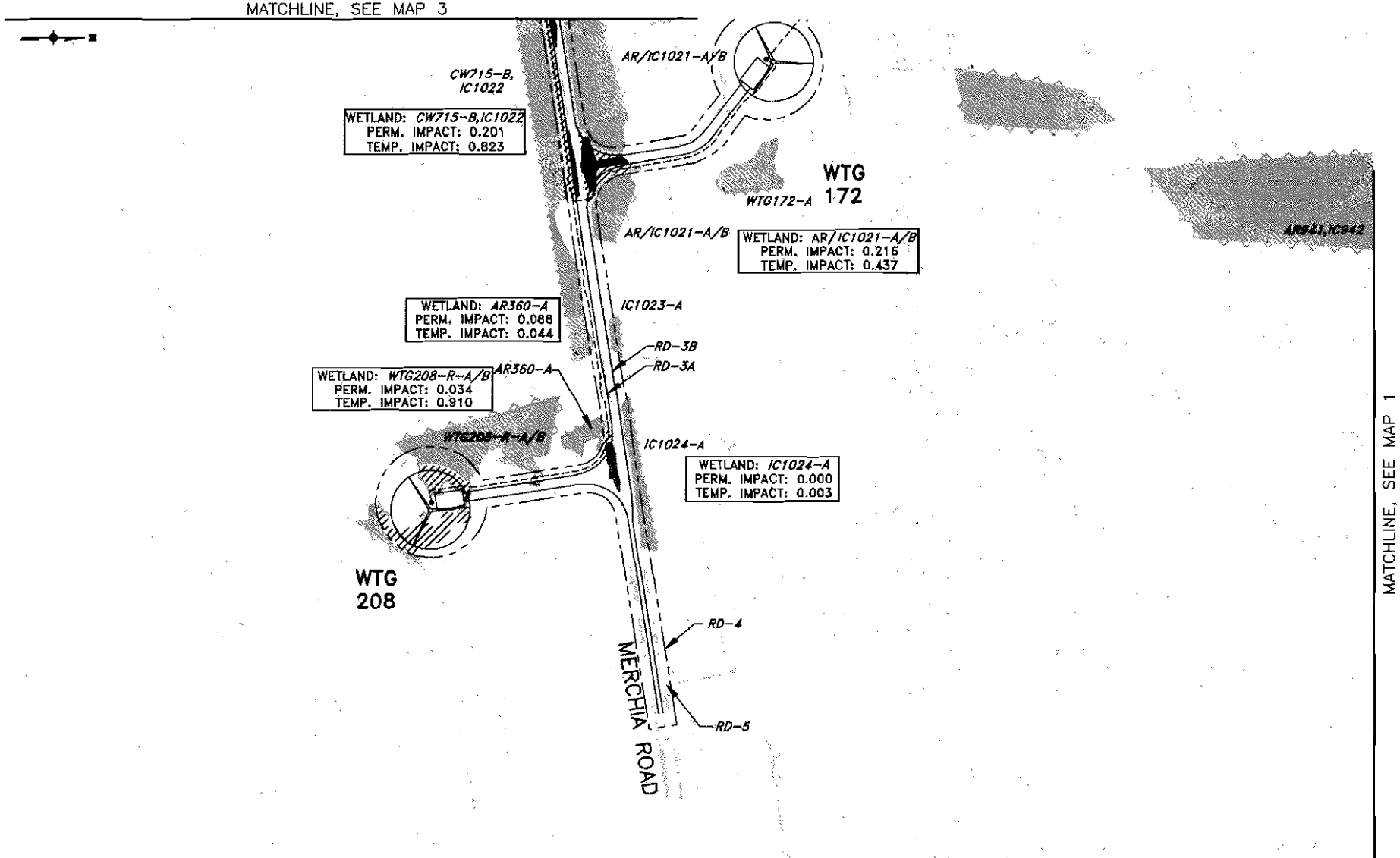
MATCHLINE, SEE MAP 3



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500' 0 500'

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REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 2 OF 52

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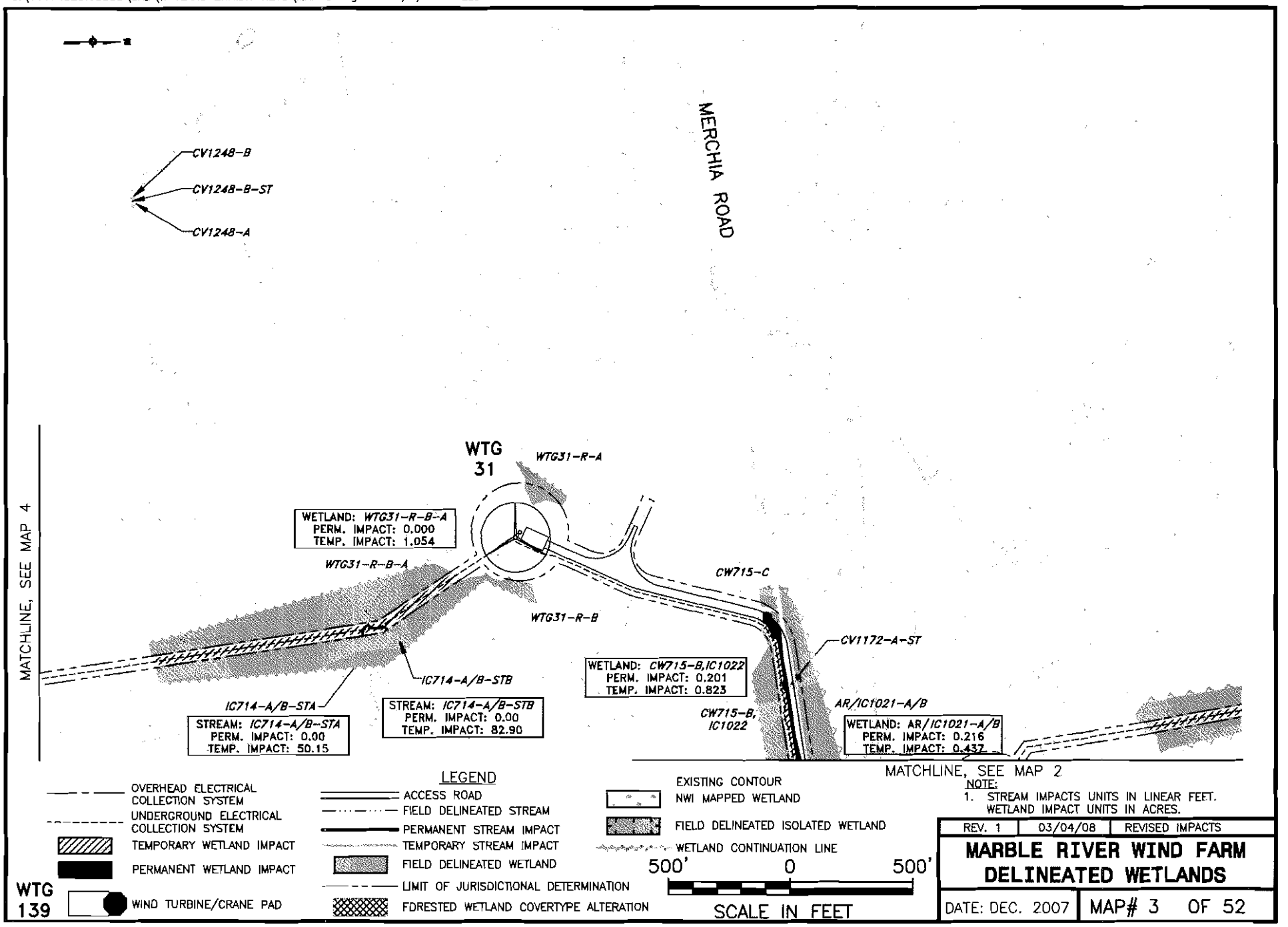

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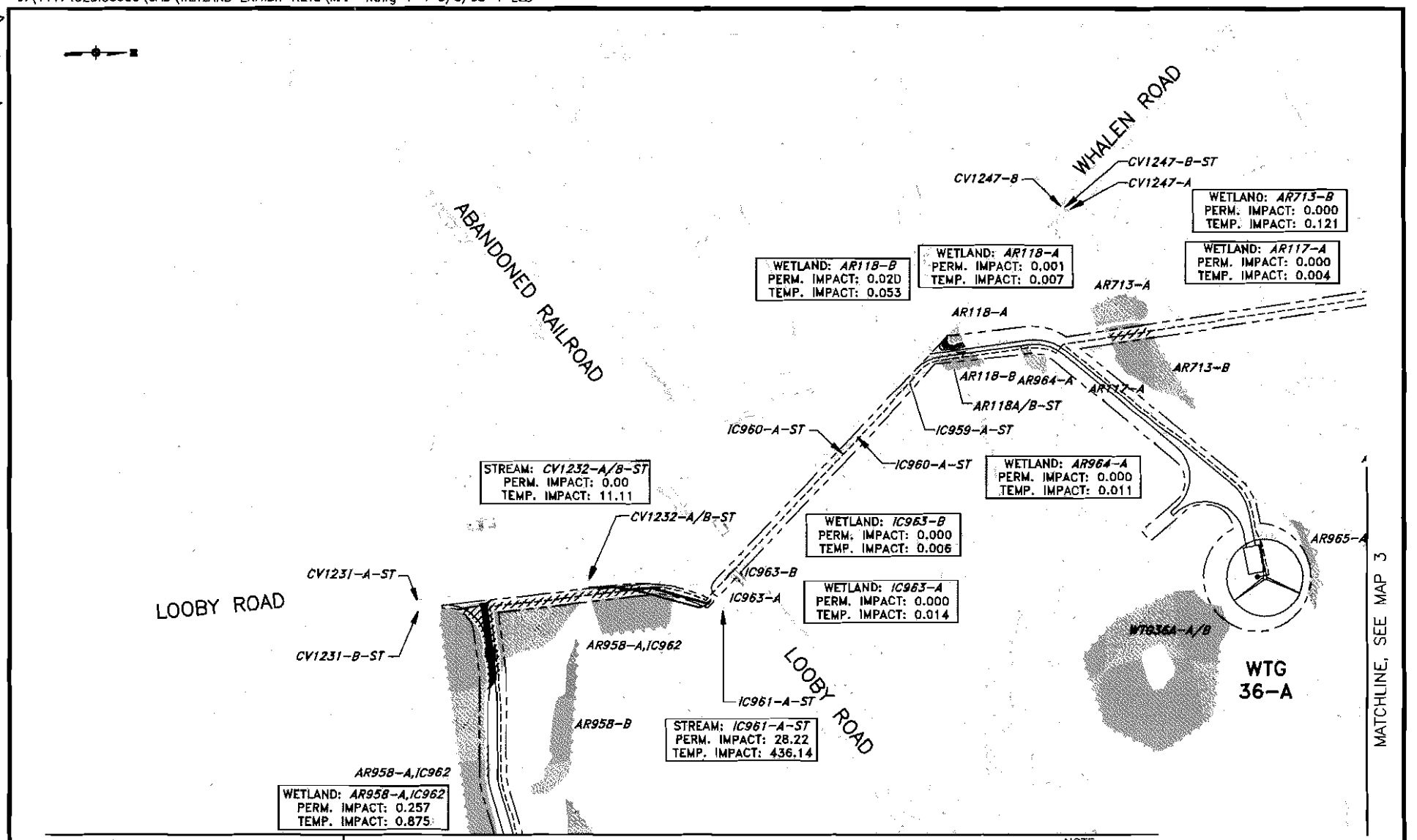

MATCHLINE, SEE MAP 6

OVERHEAD ELECTRICAL COLLECTION SYSTEM

UNDERGROUND ELECTRICAL COLLECTION SYSTEM

TEMPORARY WETLAND IMPACT

PERMANENT WETLAND IMPACT

WTG 139 — WIND TURBINE/CRANE PAD

LEGEND

ACCESS ROAD

FIELD DELINEATED STREAM

PERMANENT STREAM IMPACT

TEMPORARY STREAM IMPACT

FIELD DELINEATED WETLAND

LIMIT OF JURISDICTIONAL DETERMINATION

FORESTED WETLAND COVERTYPE ALTERATION

MATCHLINE, SEE MAP 5

EXISTING CONTOUR

NWI MAPPED WETLAND

FIELD DELINEATED ISOLATED WETLAND

WETLAND CONTINUATION LINE

500' 0 500'

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REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

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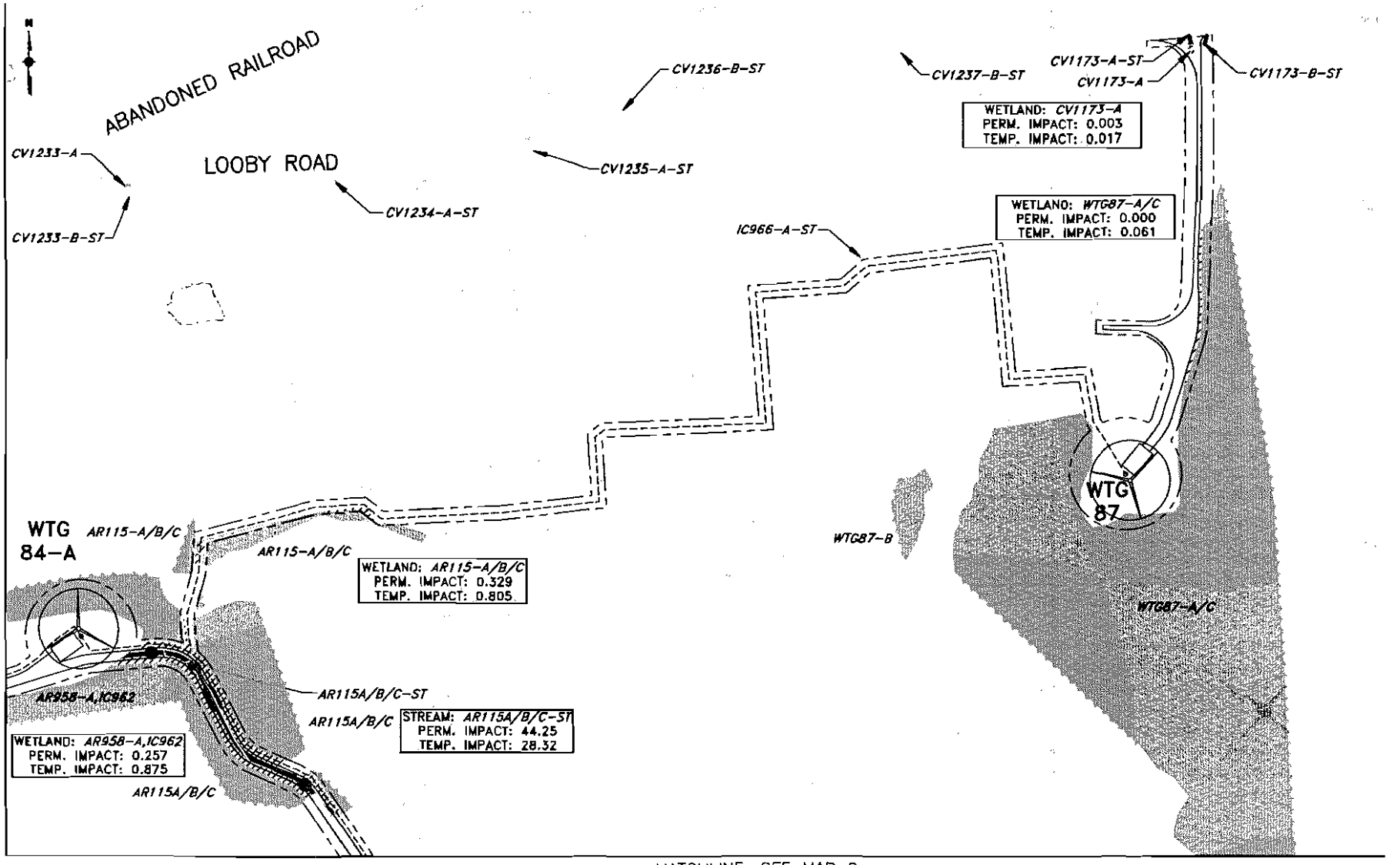

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MATCHLINE, SEE MAP 6

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MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 5 OF 52

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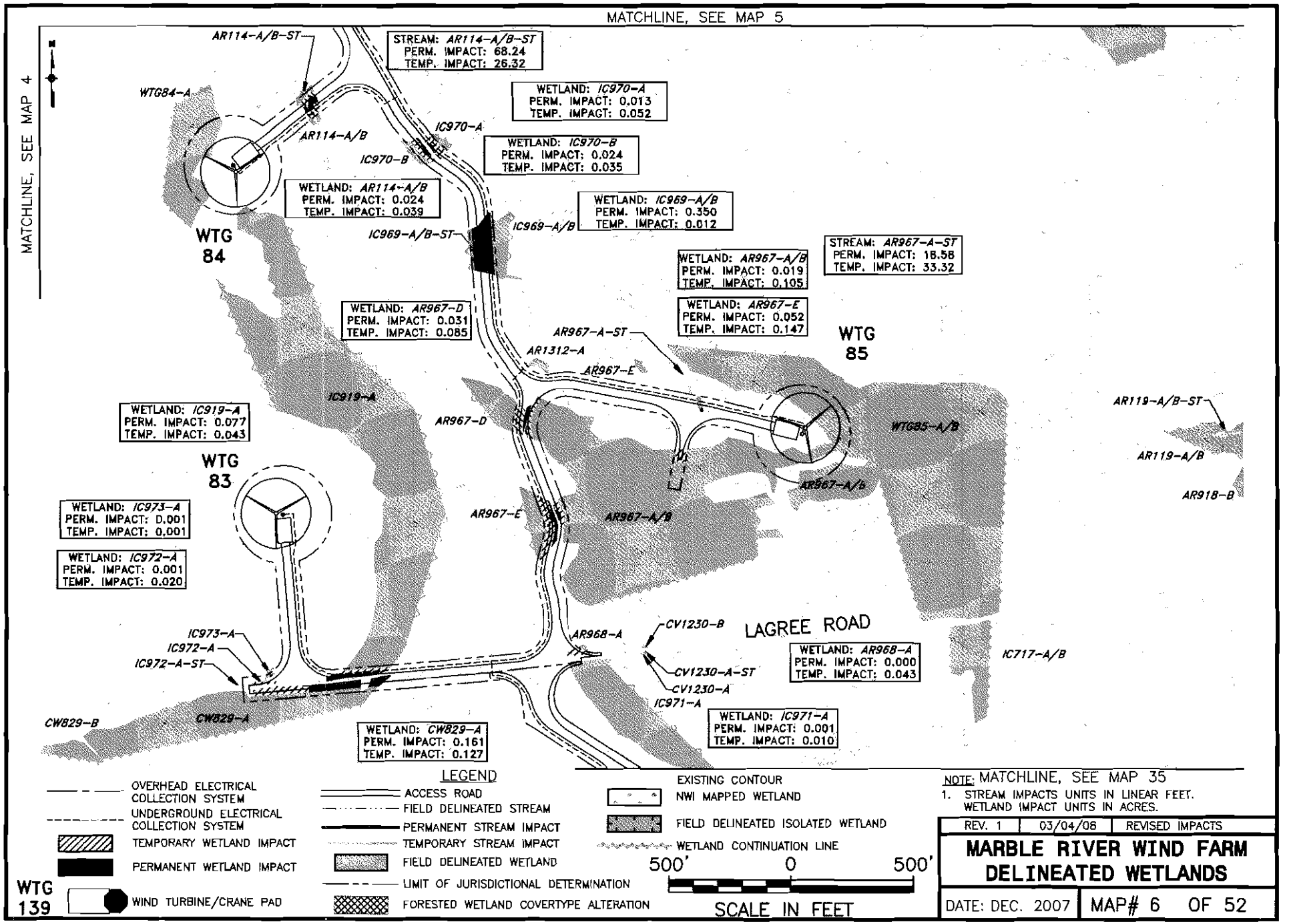

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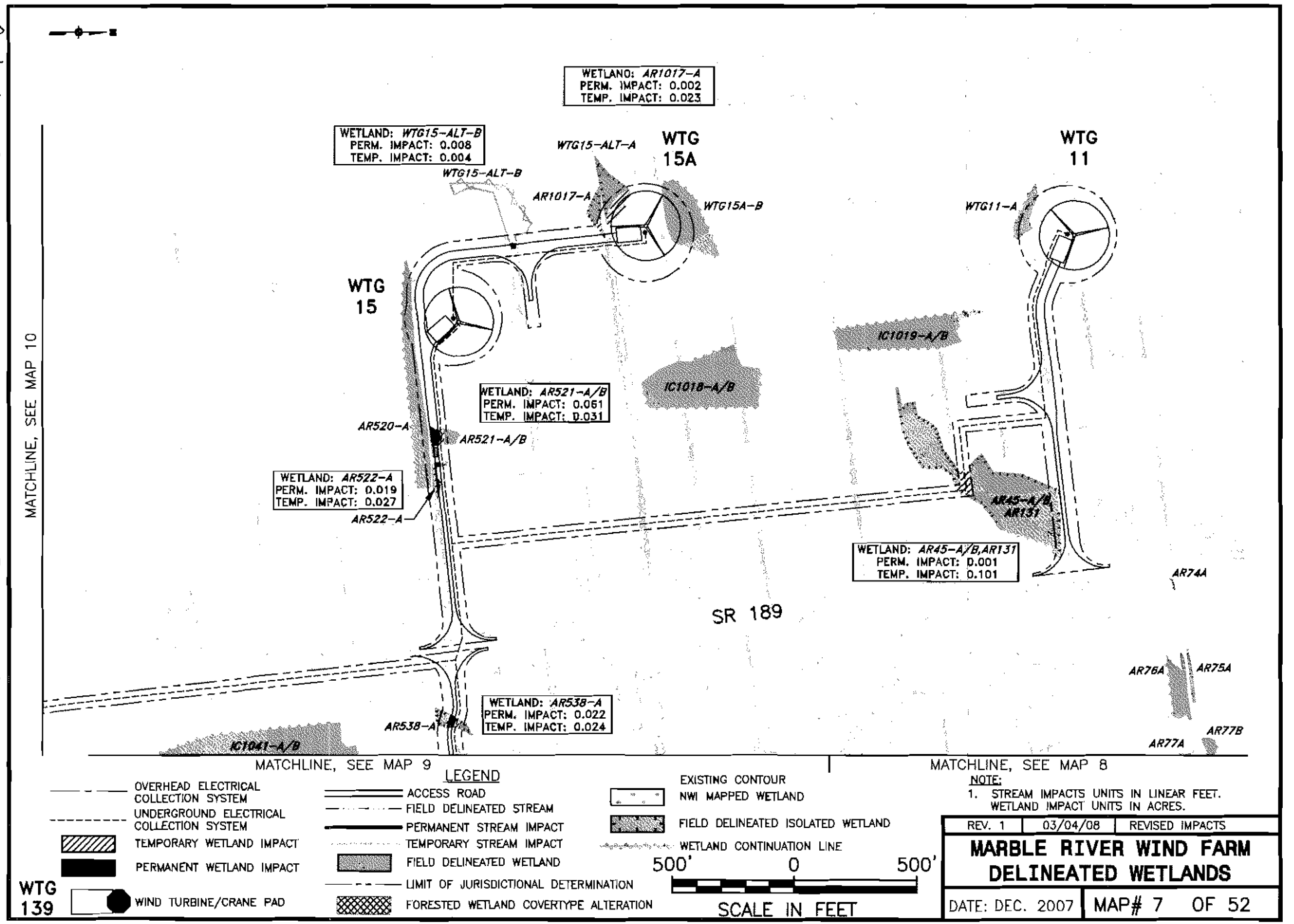

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MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 7 OF 52

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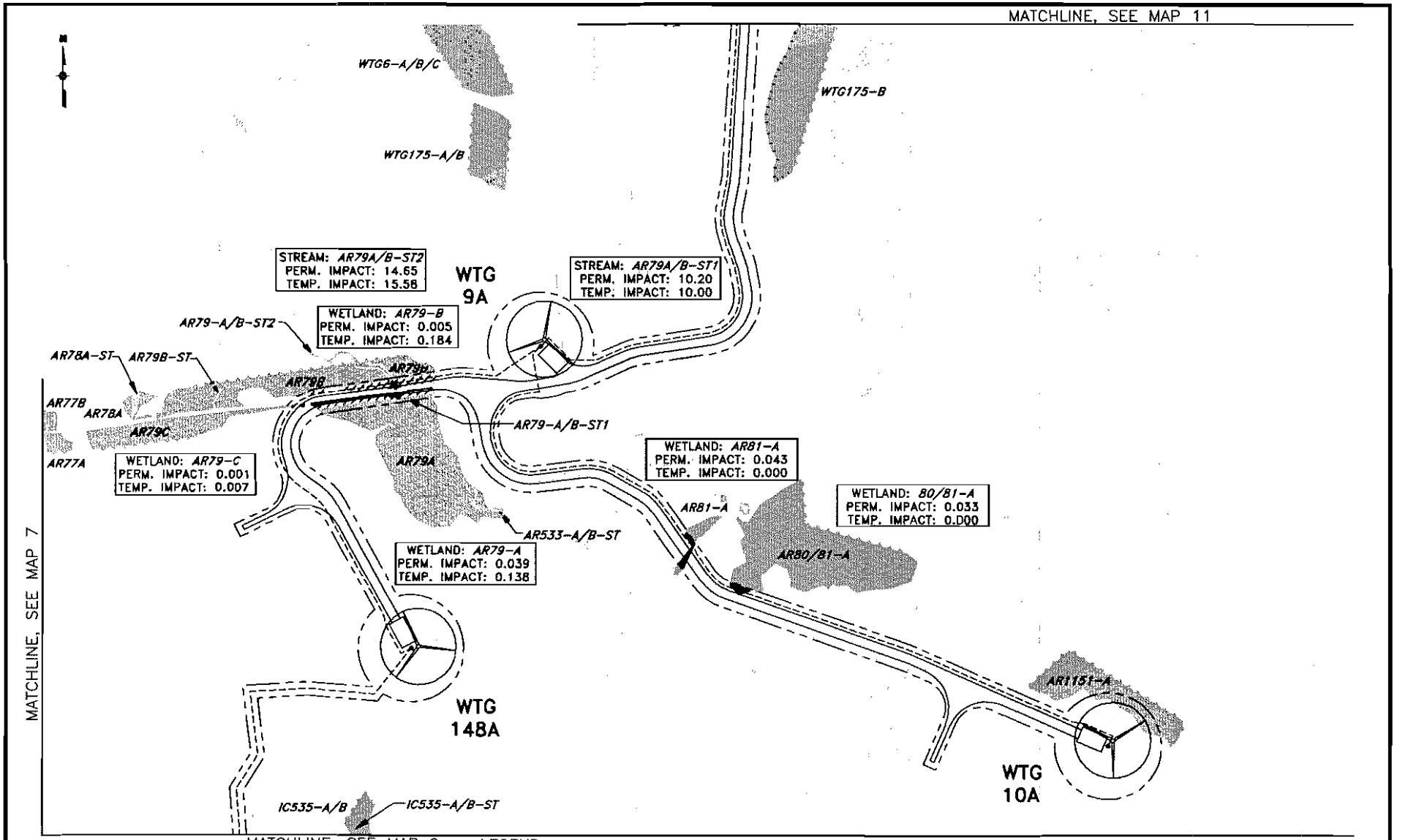

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MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 8 OF 52

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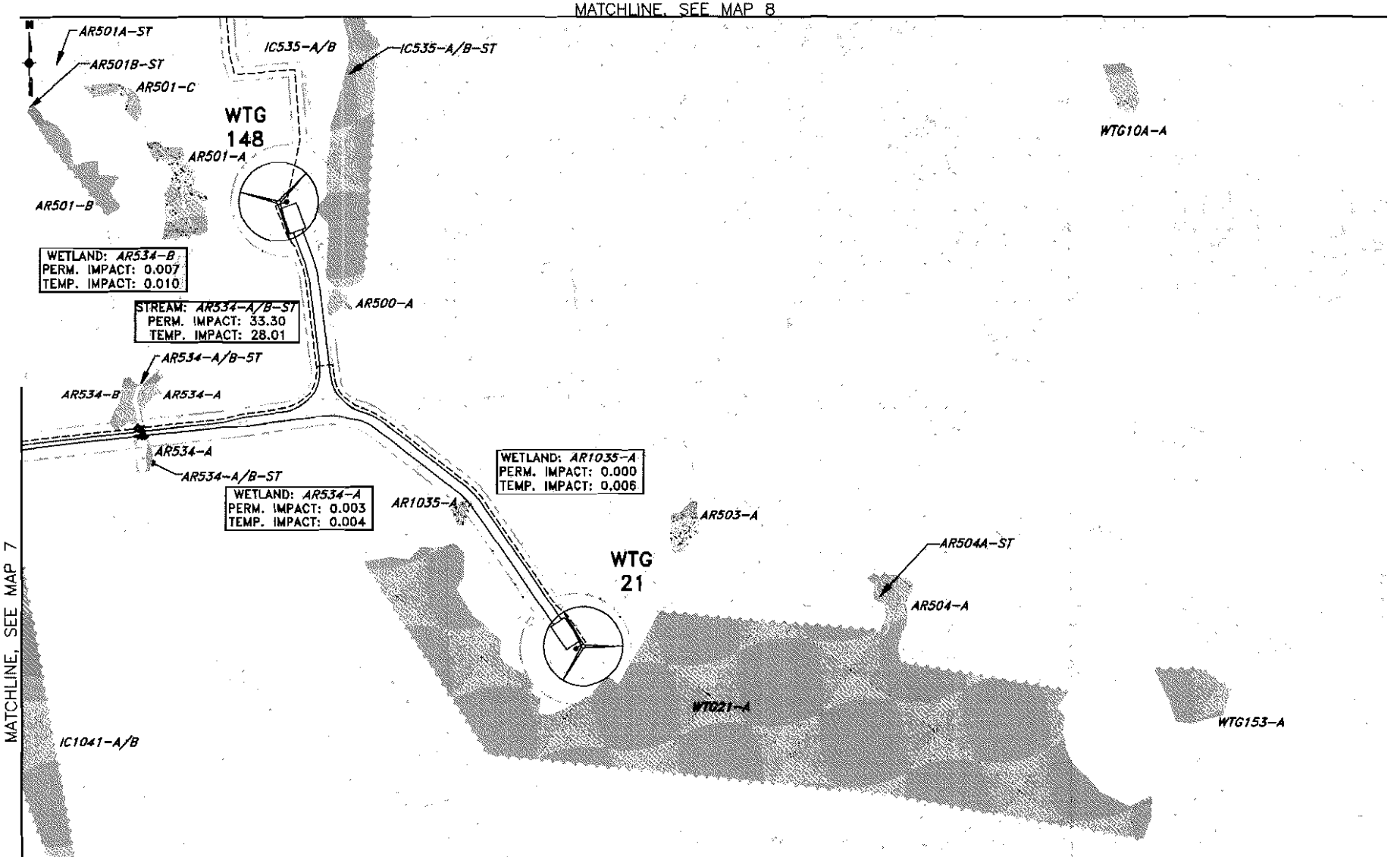
MATCHLINE, SEE MAP 8



MATCHLINE, SEE MAP 9

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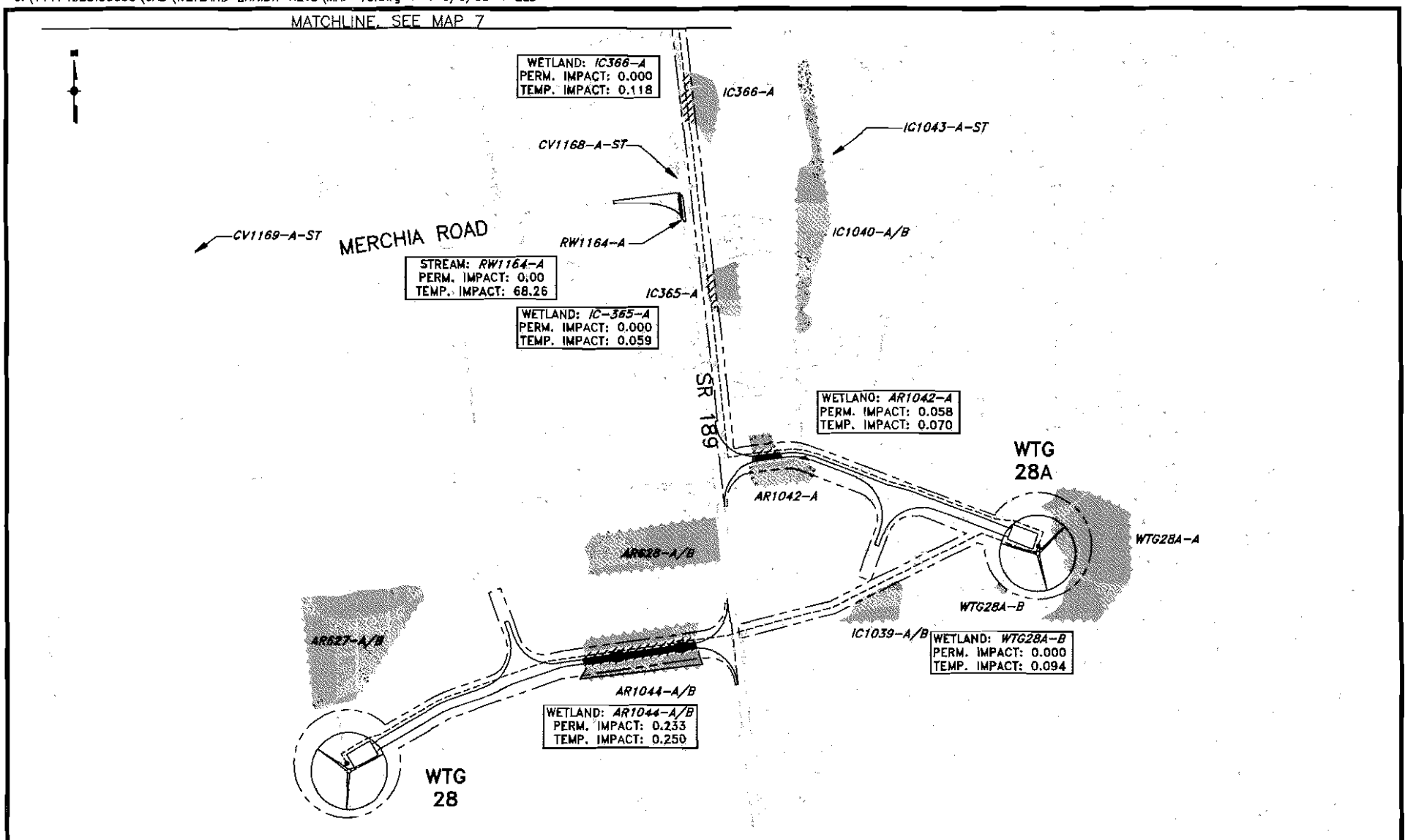

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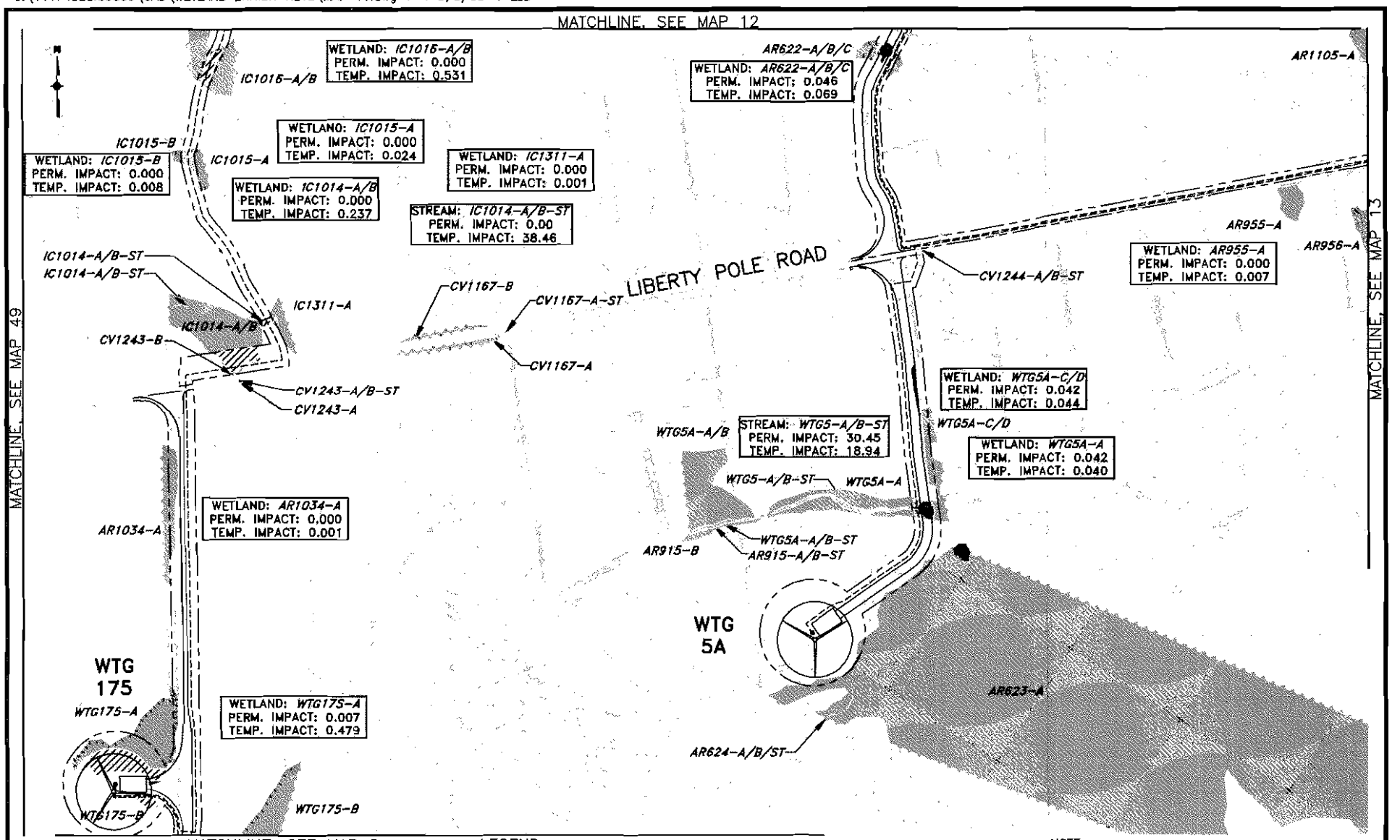

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 11 OF 52

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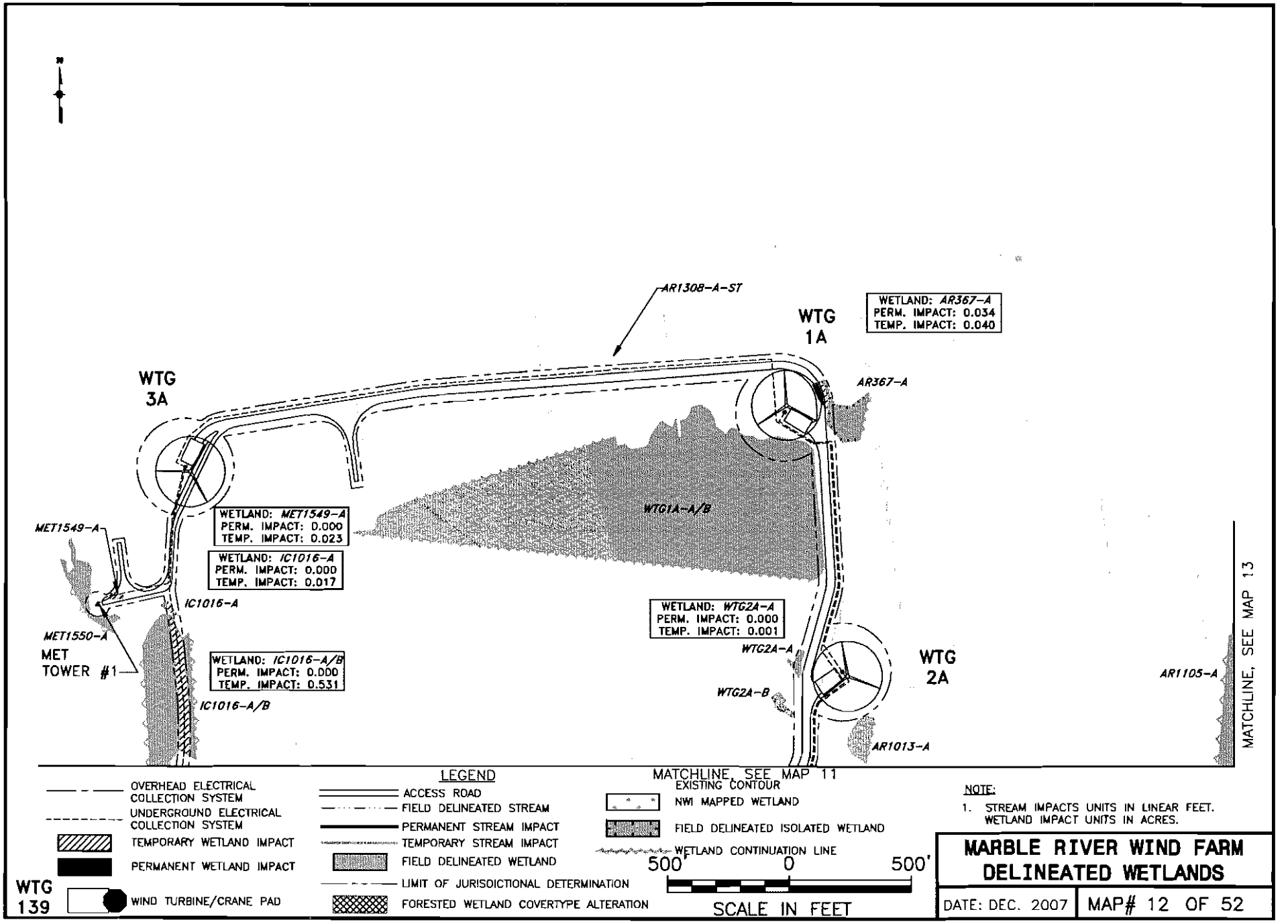

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 12 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV5\MAP 13.dwg 1=1 3/3/08-1 ELB

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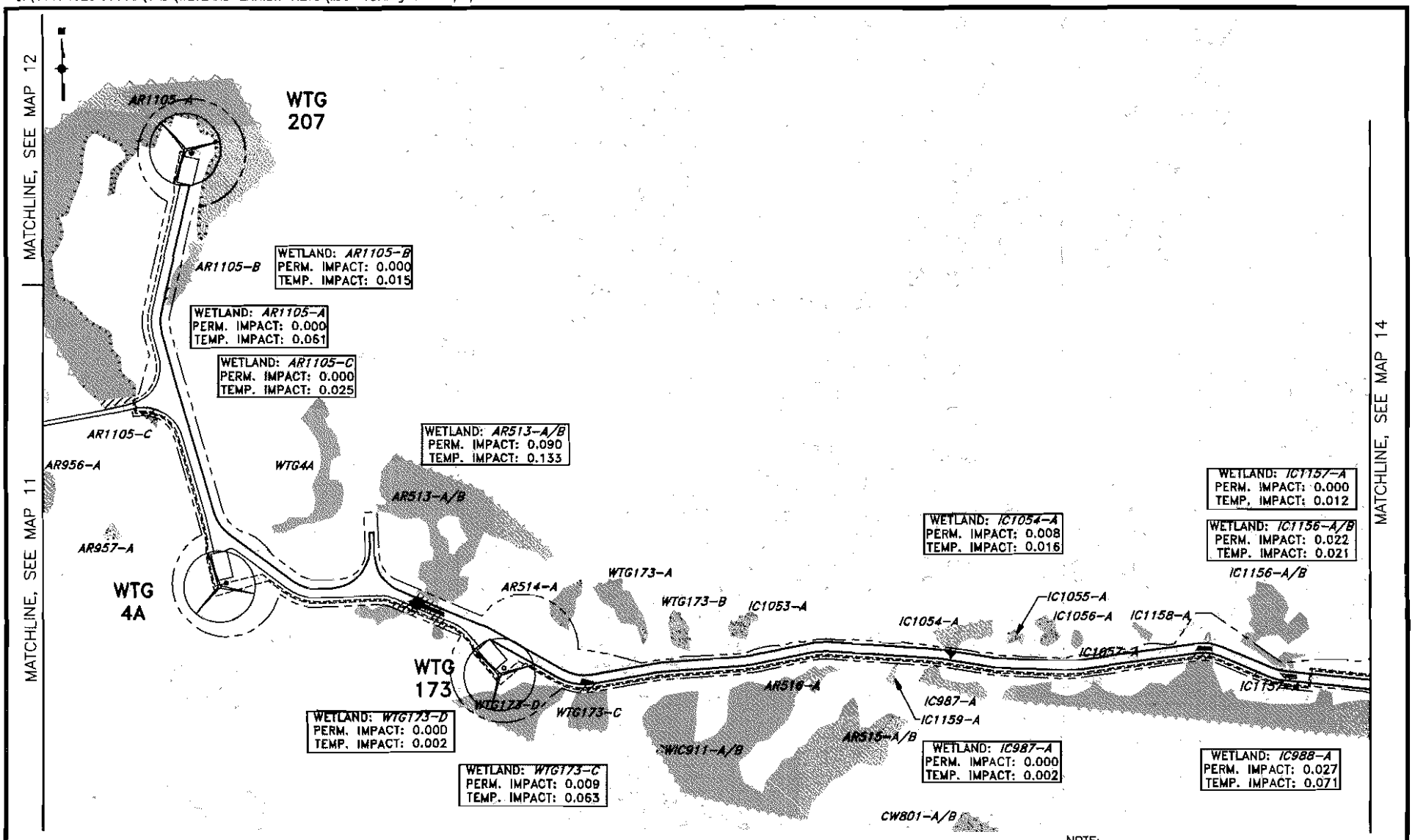

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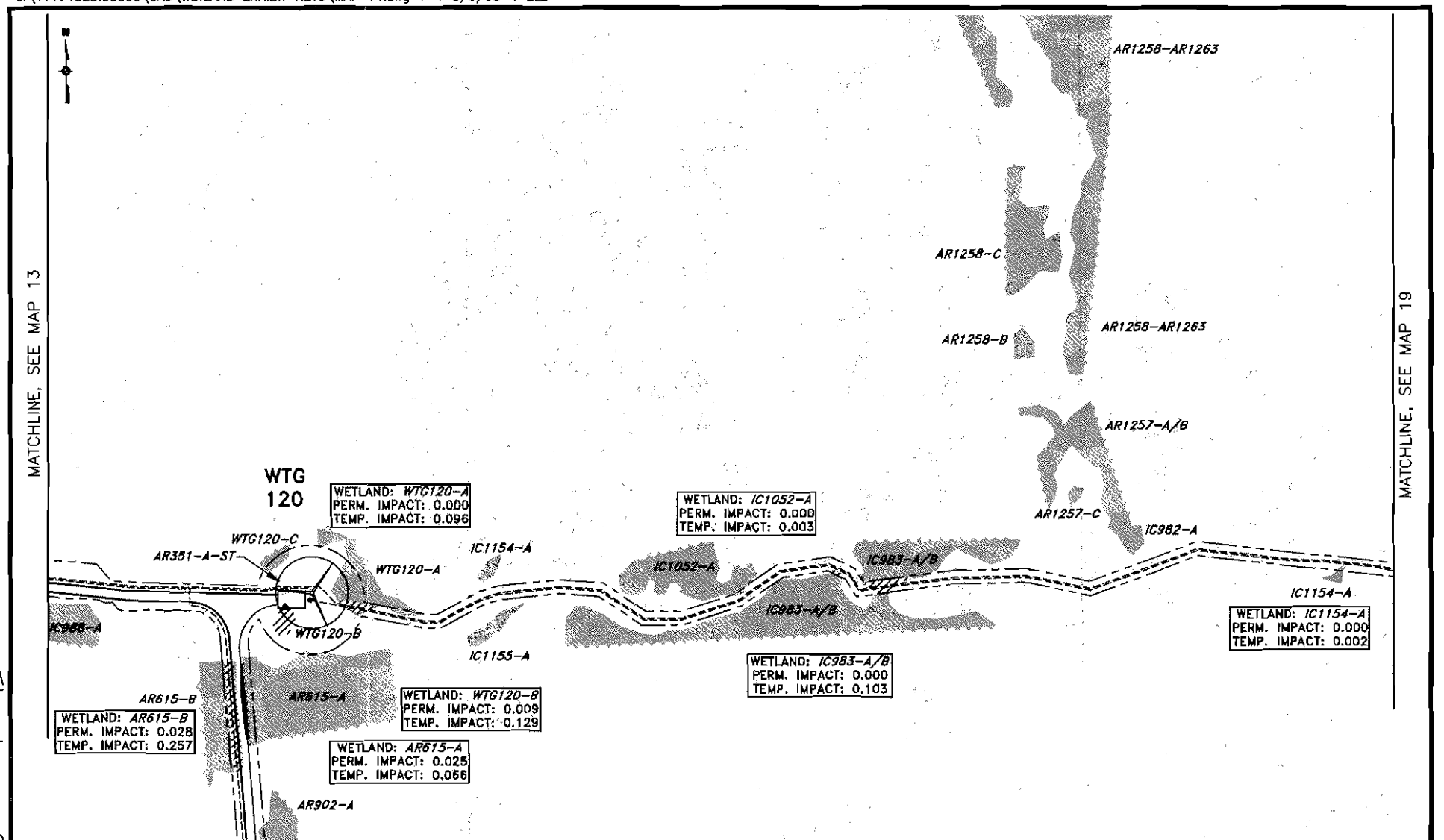

MATCHLINE, SEE MAP 16

OVERHEAD ELECTRICAL COLLECTION SYSTEM

UNDERGROUND ELECTRICAL COLLECTION SYSTEM

TEMPORARY WETLAND IMPACT

PERMANENT WETLAND IMPACT

WTG 139 — WIND TURBINE/CRANE PAD

LEGEND

ACCESS ROAD

FIELD DELINEATED STREAM

PERMANENT STREAM IMPACT

TEMPORARY STREAM IMPACT

FIELD DELINEATED WETLAND

LIMIT OF JURISDICTIONAL DETERMINATION

FORESTED WETLAND COVERTYPE ALTERATION

MATCHLINE, SEE MAP 15

EXISTING CONTOUR

NWI MAPPED WETLAND

FIELD DELINEATED ISOLATED WETLAND

WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 14 OF 52

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MATCHLINE, SEE MAP 14

MATCHLINE, SEE MAP 16

MATCHLINE, SEE MAP 17

AR902-A

AR904-A

WTG 122

WTG122-A

WETLAND: AR904-A
PERM. IMPACT: 0.001
TEMP. IMPACT: 0.024

WILKINS ROAD

WETLAND: AR611-B
PERM. IMPACT: 0.007
TEMP. IMPACT: 0.190

AR611-A/B/C/D/E

AR613-A/B

AR701-A/B

AR1026-A

WETLAND: AR1026-A
PERM. IMPACT: 0.043
TEMP. IMPACT: 0.018

AR1027-A/B

WETLAND: AR1027-A/B
PERM. IMPACT: 0.078
TEMP. IMPACT: 0.094

WETLAND: AR701-A/B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.096

WTG 125

AR611-A/B/C/D/E

WETLAND: AR611-A/B/C/D/E
PERM. IMPACT: 0.339
TEMP. IMPACT: 0.667

WTG126-A/B/C

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGRDUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 15 OF 52

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Application No. NAN-2007-00147-WD2

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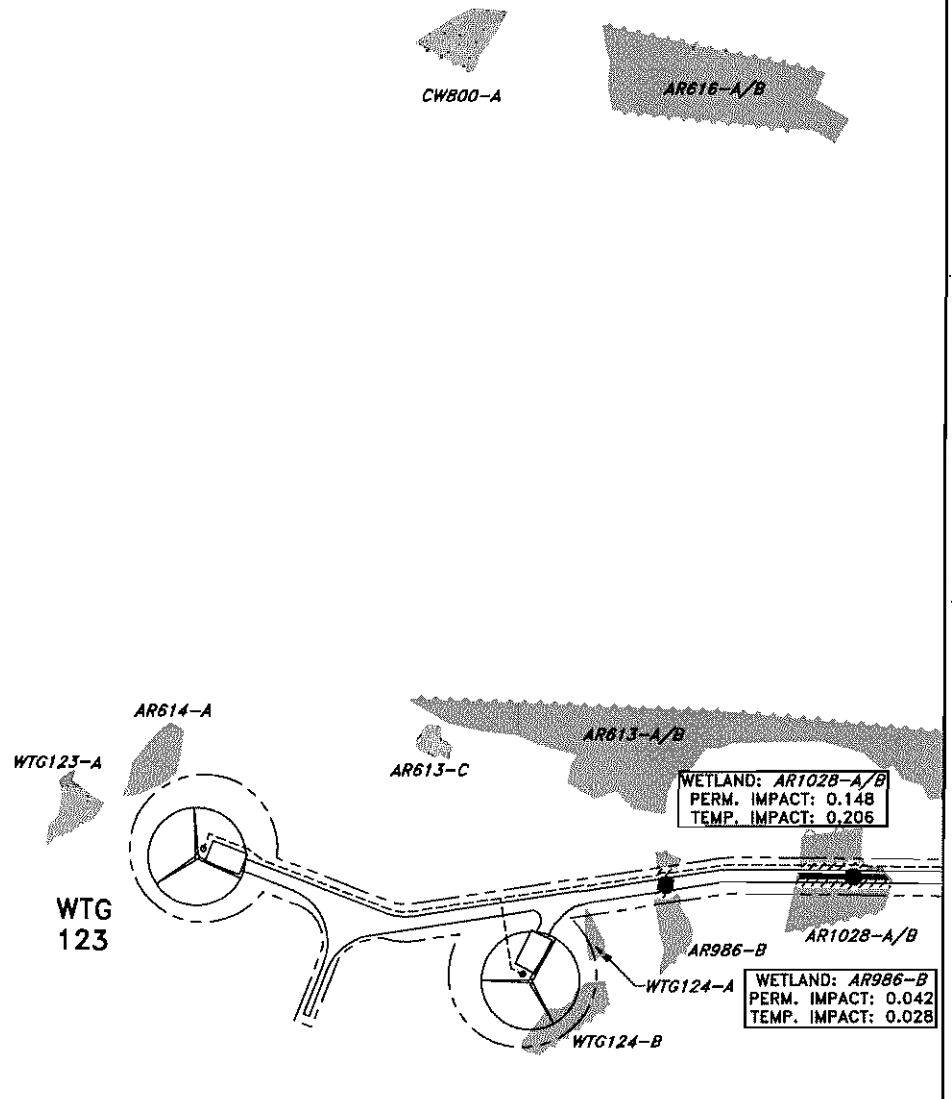
MATCHLINE, SEE MAP 14



MATCHLINE, SEE MAP 15

MATCHLINE, SEE MAP 17

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 16 OF 52

Application No. NAN-2007-00147-WD3

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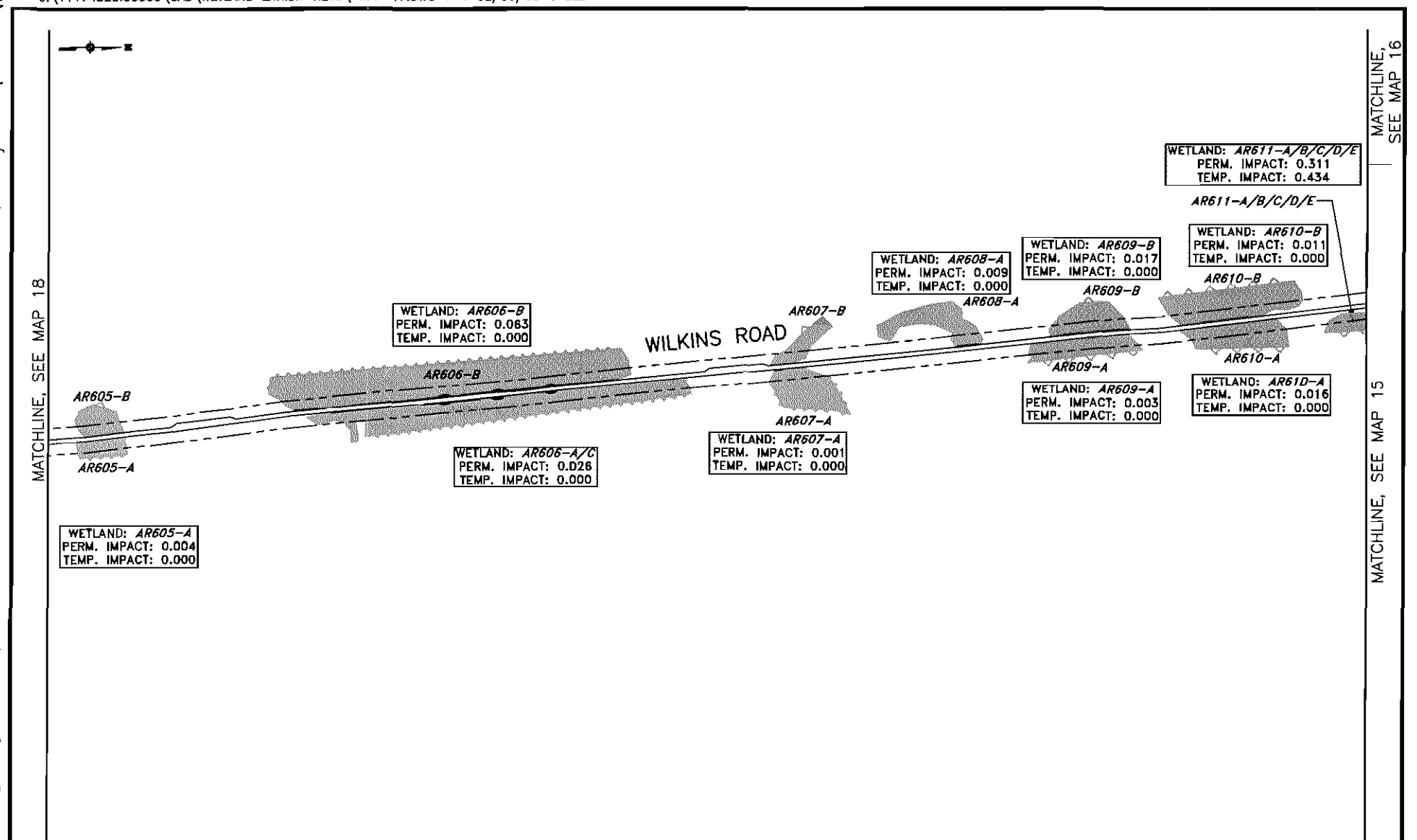
J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 17.DWG 1=1 02/08/08-1 ELB



LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 17 OF 52

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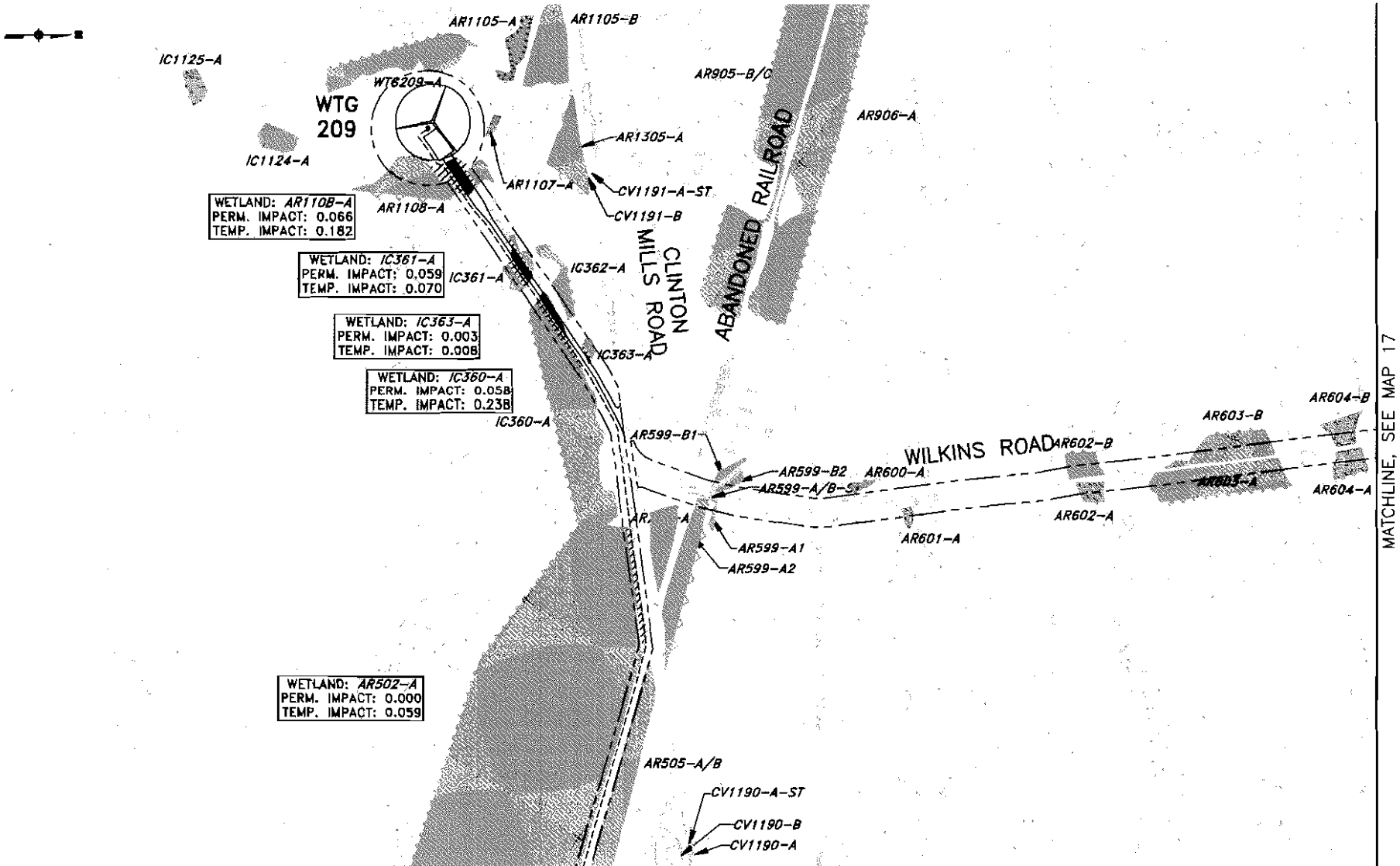
MATCHLINE, SEE MAP 29

MATCHLINE, SEE MAP 17



MATCHLINE, SEE MAP 27

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 18 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 19.DWG 1=1 02/08/D8-1 ELB

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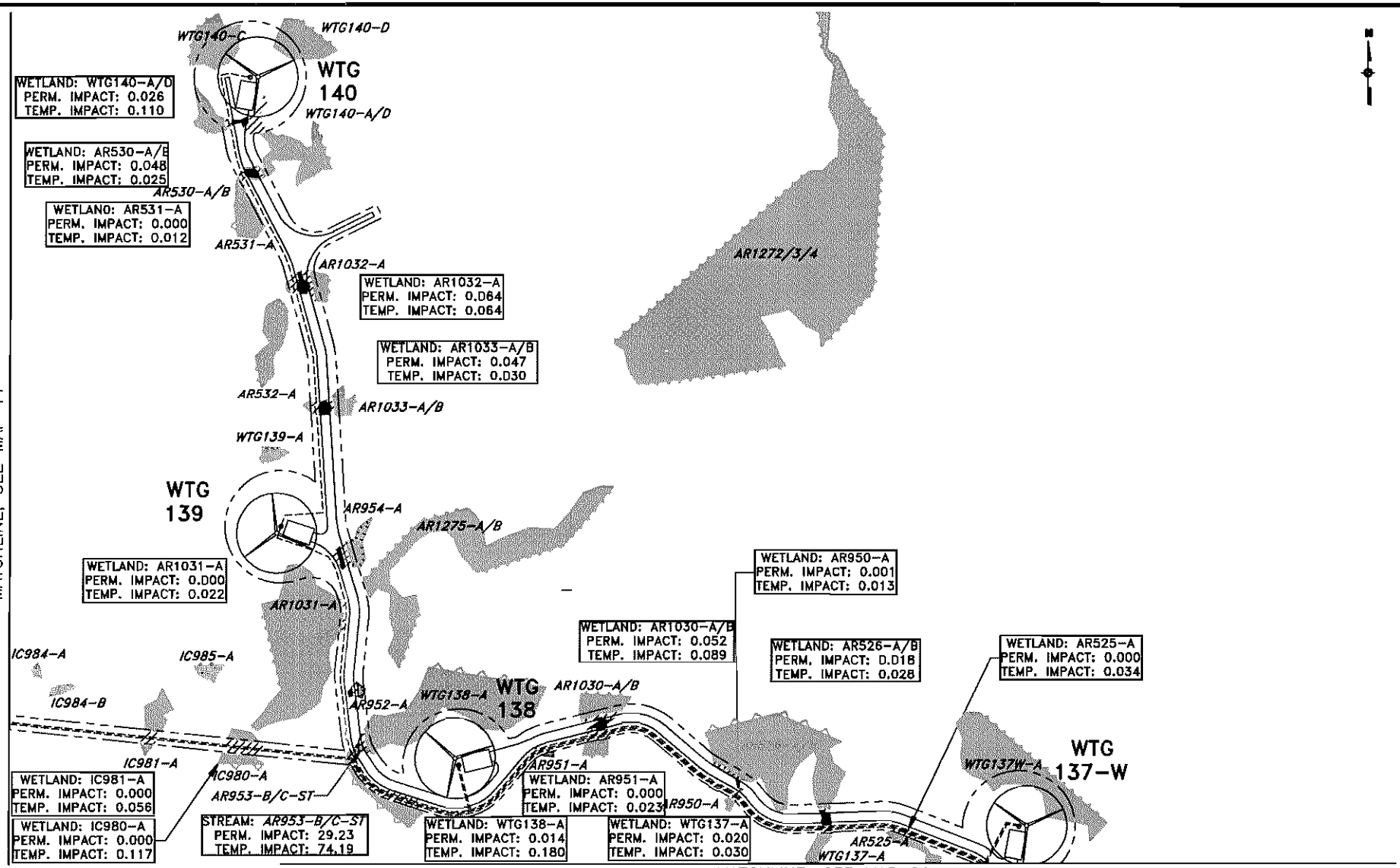

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 19 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV5\MAP 2D.DWG 1=1 3/3/08-1 ELB

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MATCHLINE, SEE MAP 19

MATCHLINE, SEE MAP 22

MATCHLINE, SEE MAP 24

WTG 155

WETLAND: AR1029-A/B
PERM. IMPACT: 0.078
TEMP. IMPACT: 0.124

STREAM: AR52-A/B/C-ST
PERM. IMPACT: 20.85
TEMP. IMPACT: 33.38

WETLAND: AR524-A
PERM. IMPACT: 0.008
TEMP. IMPACT: 0.067

WETLAND: WTG155-A/B
PERM. IMPACT: 0.005
TEMP. IMPACT: 0.008

STREAM: AR210-A/B/C/D-STA
PERM. IMPACT: 39.73
TEMP. IMPACT: 25.35

WETLAND: AR949-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.053

WETLAND: AR524-B
PERM. IMPACT: 0.006
TEMP. IMPACT: 0.058

WETLAND: AR524-D
PERM. IMPACT: 0.013
TEMP. IMPACT: 0.017

WETLAND: AR523-A
PERM. IMPACT: 0.010
TEMP. IMPACT: 0.012

WETLAND: AR208-A
PERM. IMPACT: 0.020
TEMP. IMPACT: 0.117

WETLAND: AR207-A
PERM. IMPACT: 0.001
TEMP. IMPACT: 0.004

WETLAND: AR210-D
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.001

WETLAND: AR208-B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.028

WETLAND: AR65-A
PERM. IMPACT: 0.027
TEMP. IMPACT: 0.034

WETLAND: AR65-B
PERM. IMPACT: 0.039
TEMP. IMPACT: 0.020

STREAM: AR206-A/B-STB
PERM. IMPACT: 31.10
TEMP. IMPACT: 17.49

WETLAND: AR206-A
PERM. IMPACT: 0.029
TEMP. IMPACT: 0.017

WETLAND: AR206-B
PERM. IMPACT: 0.006
TEMP. IMPACT: 0.047

STREAM: AR206-A/B-STA
PERM. IMPACT: 21.36
TEMP. IMPACT: 72.85

WETLAND: AR205-A
PERM. IMPACT: 0.024
TEMP. IMPACT: 0.010

WETLAND: AR205-B
PERM. IMPACT: 0.029
TEMP. IMPACT:0.009

WTG137W-B
AR1029-A/B
AR52-A/B/C-ST
AR524-A
AR524-B
AR524-C
AR524-D
AR523-A
AR949-A
AR948-A
WTG155-C
WTG155-A/B
WTG155-D/E-ST
AR210-A/B/C/D-STB
AR209-ST
AR210-C
AR210-STC
AR210-D
AR207-A
AR208-ST
AR208-A
AR210-A/B/C/D-STA
AR65-A
AR65-B
AR206-A/B-STB
AR206-B
AR206-A
AR206-A/B-STA

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 20 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV5\MAP 21.dwg 1=1 3/3/08-1 ELB

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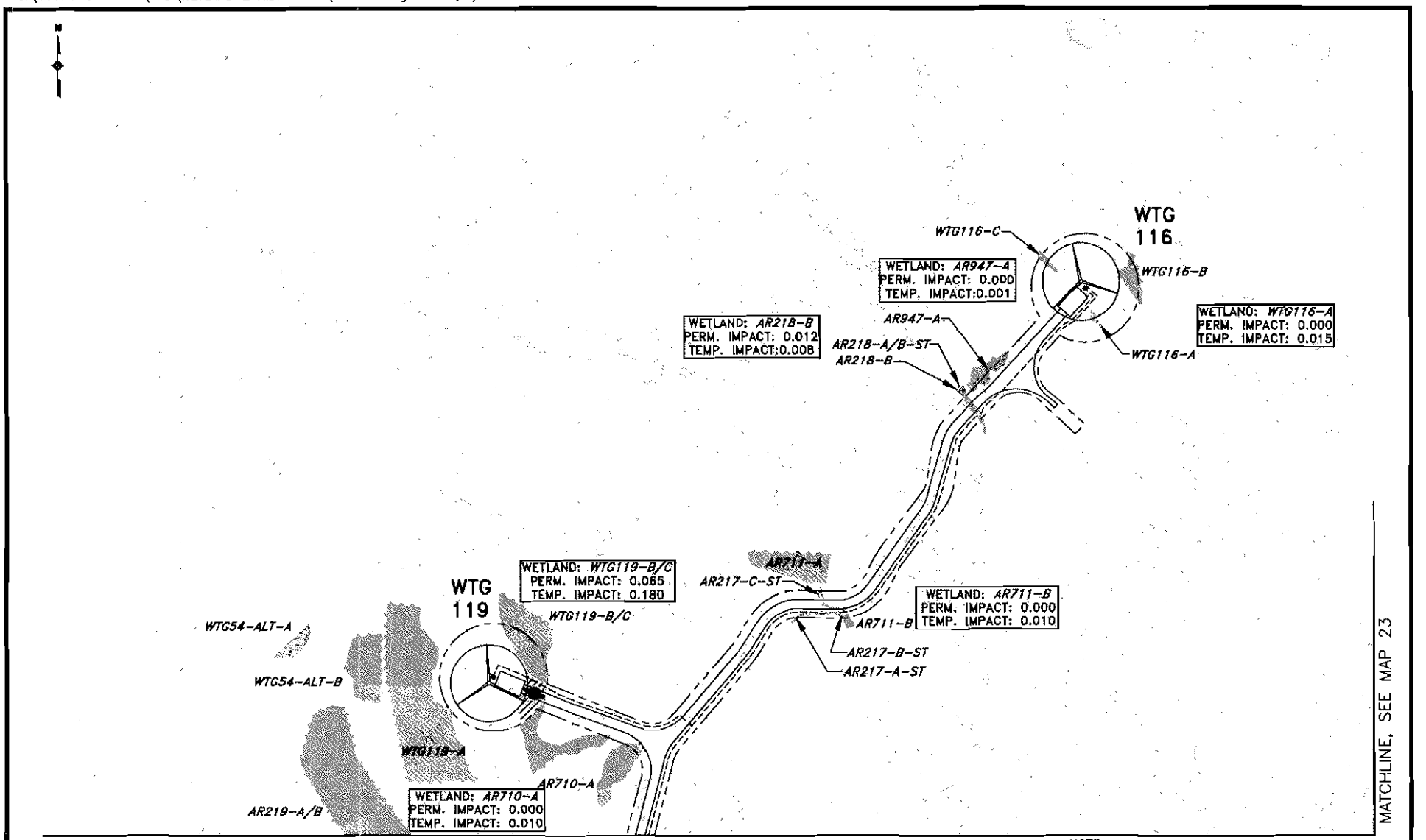

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
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- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 21 OF 52

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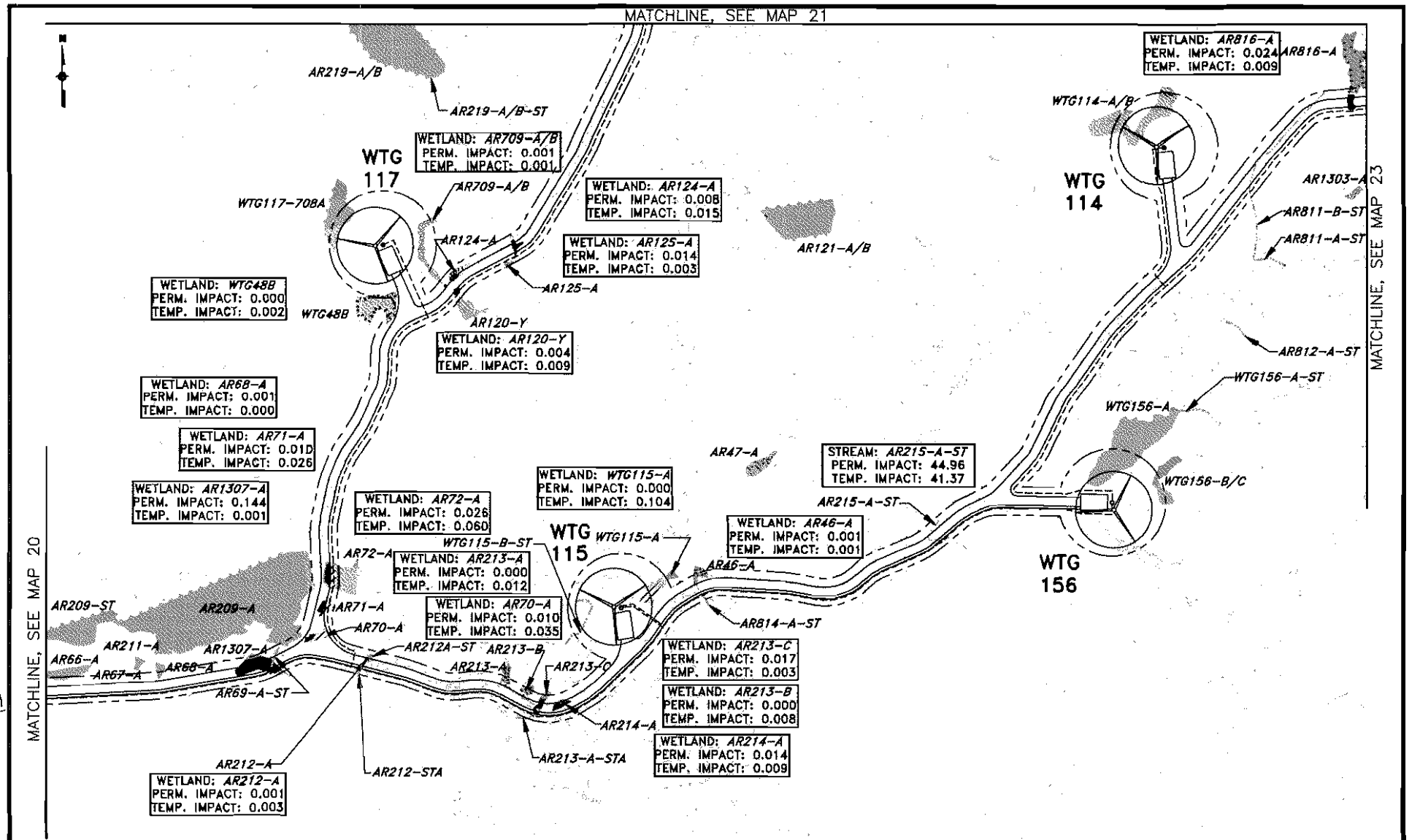

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WIND TURBINE/CRANE PAD
- ACCESS ROAD
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- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
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- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
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- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 22 OF 52

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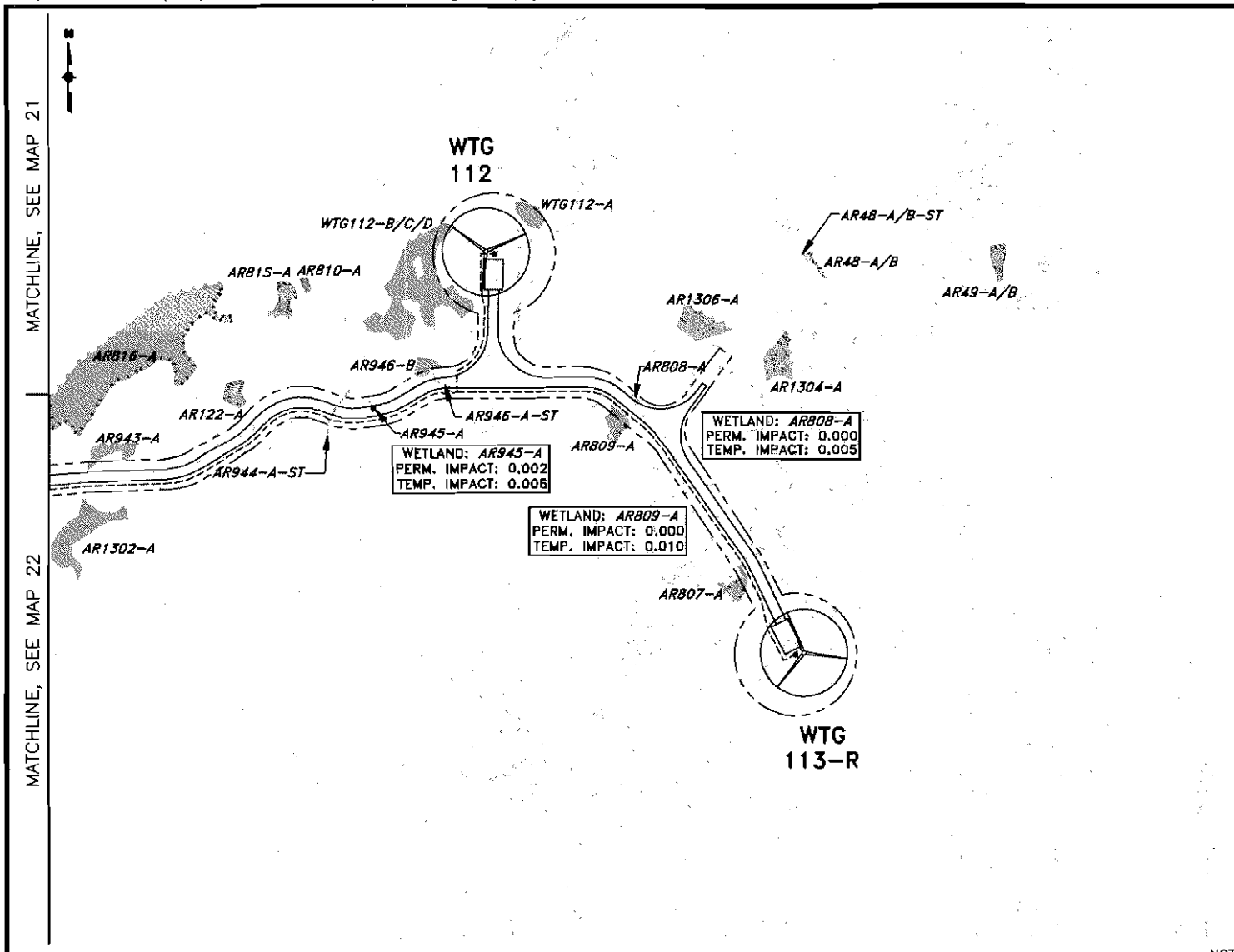

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
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- TEMPORARY STREAM IMPACT
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- LIMIT OF JURISDICTIONAL DETERMINATION
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- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 23 OF 52

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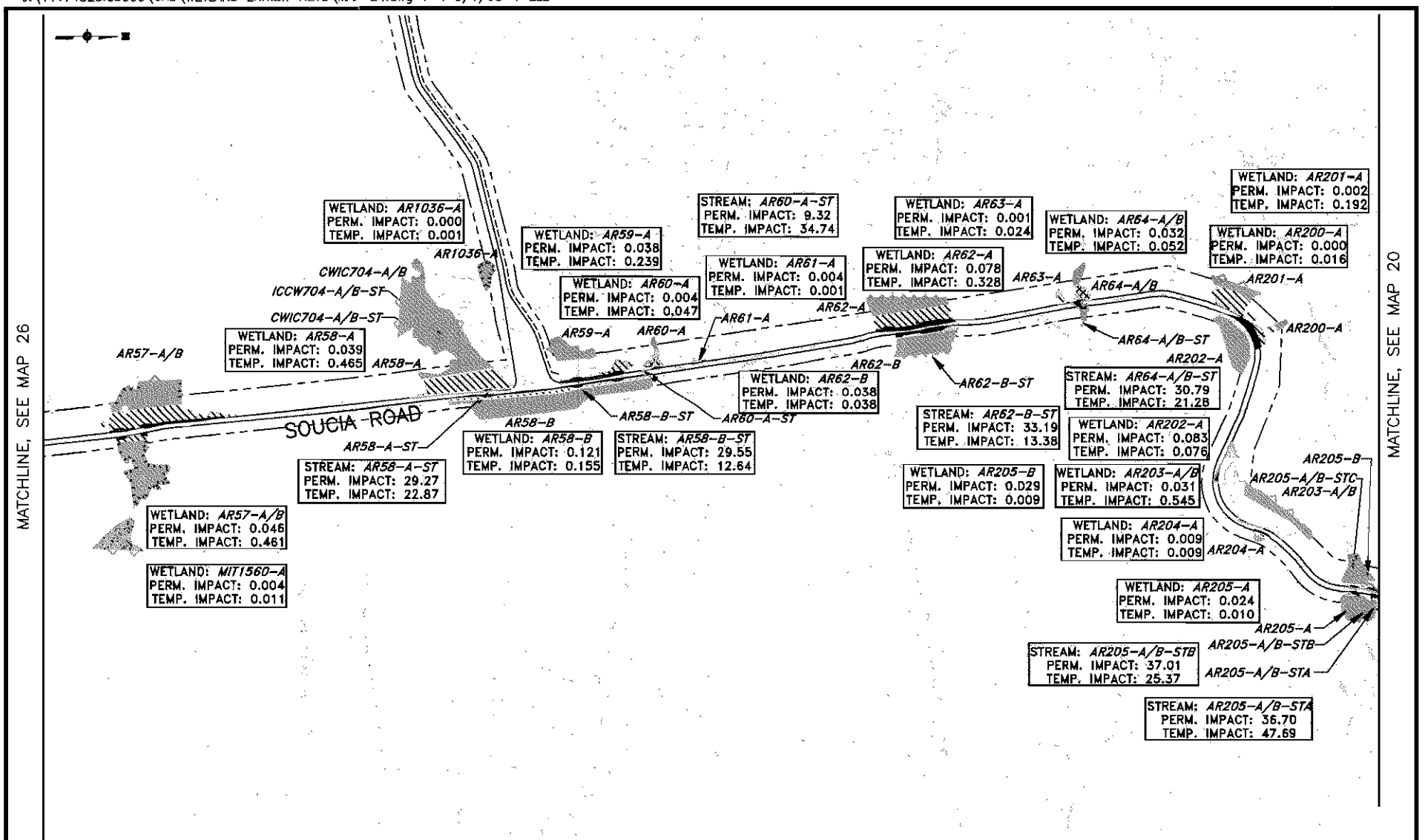

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
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- TEMPORARY STREAM IMPACT
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- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 24 OF 52

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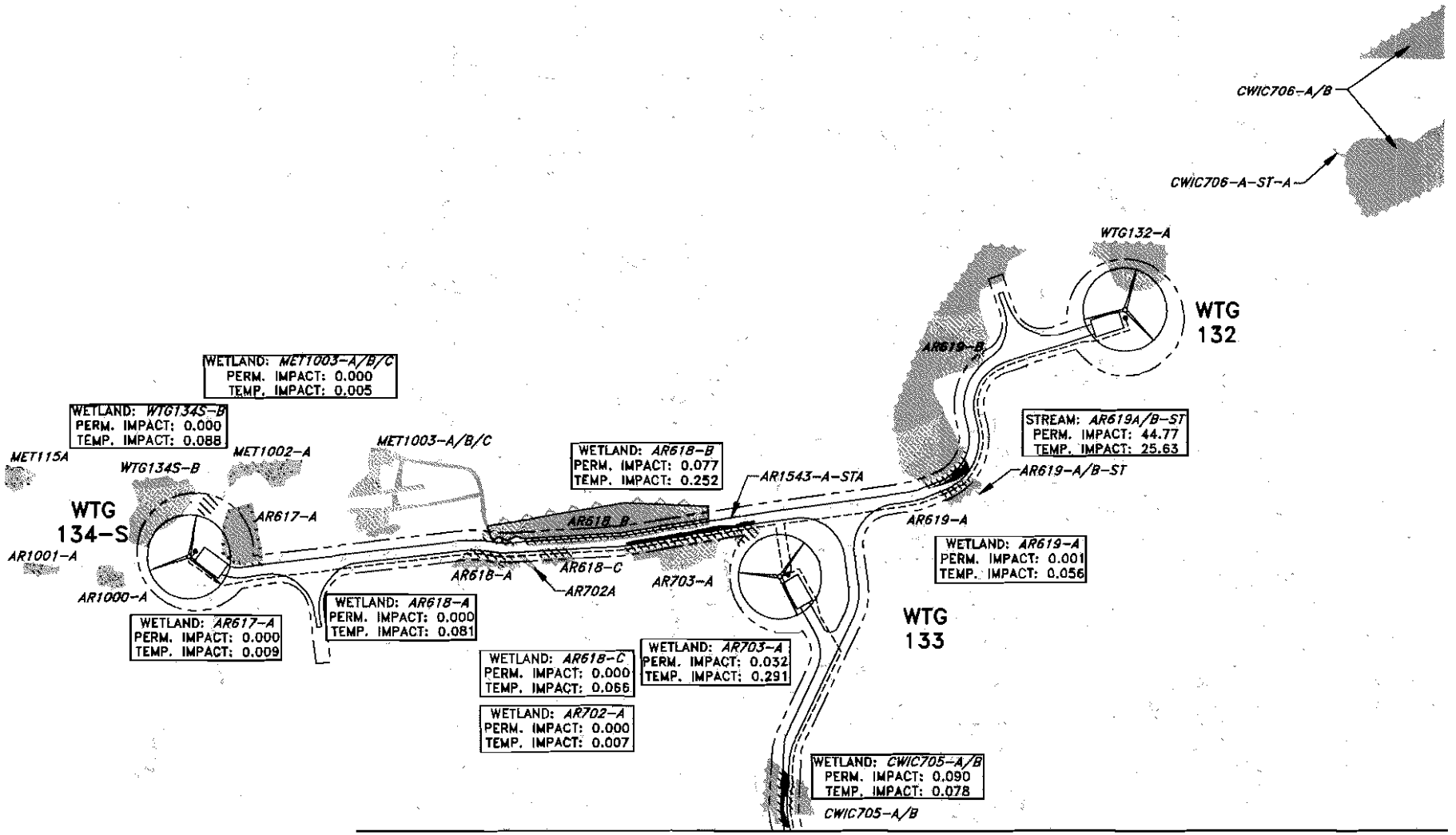

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
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- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 25 OF 52

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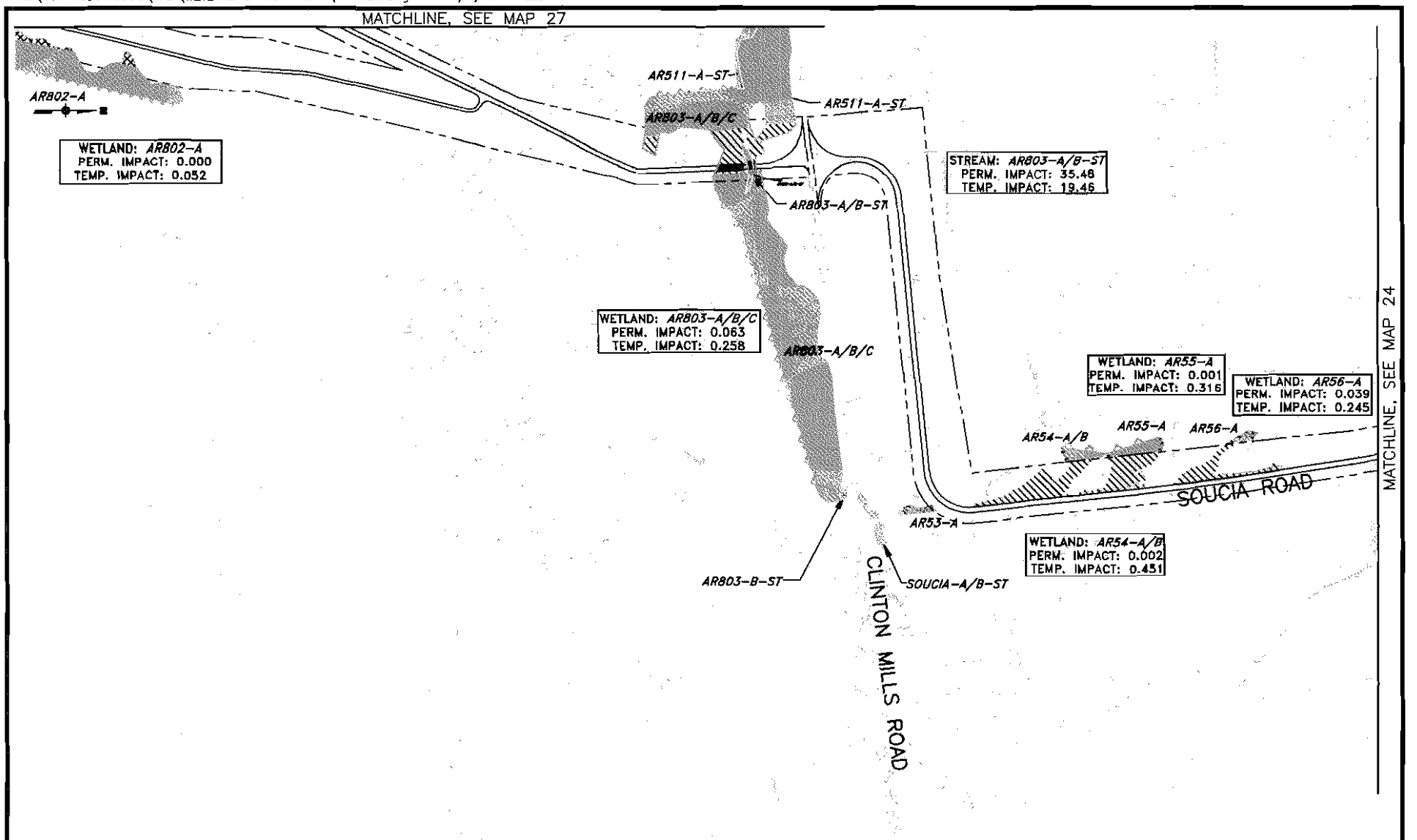

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
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- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 26 OF 52

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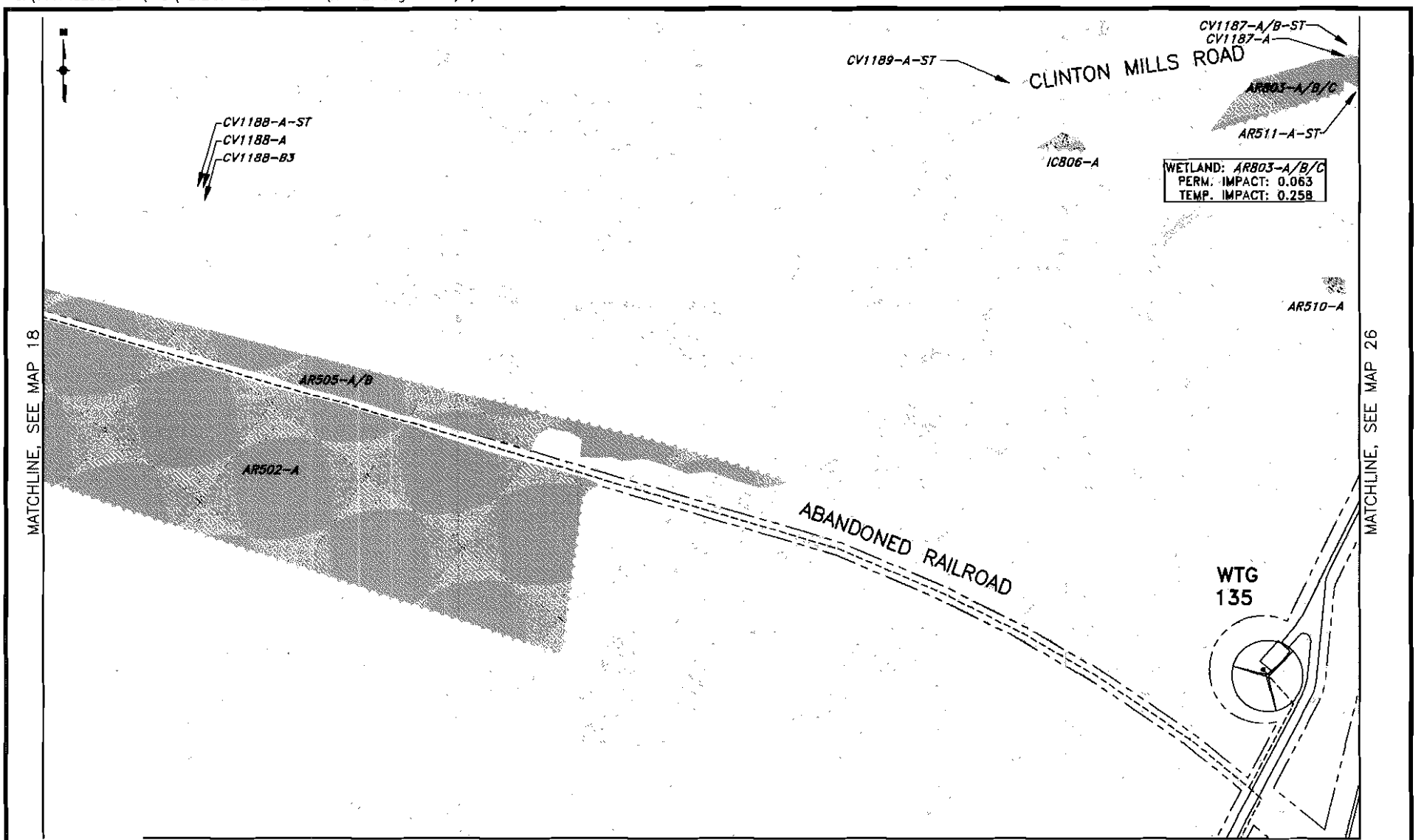

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

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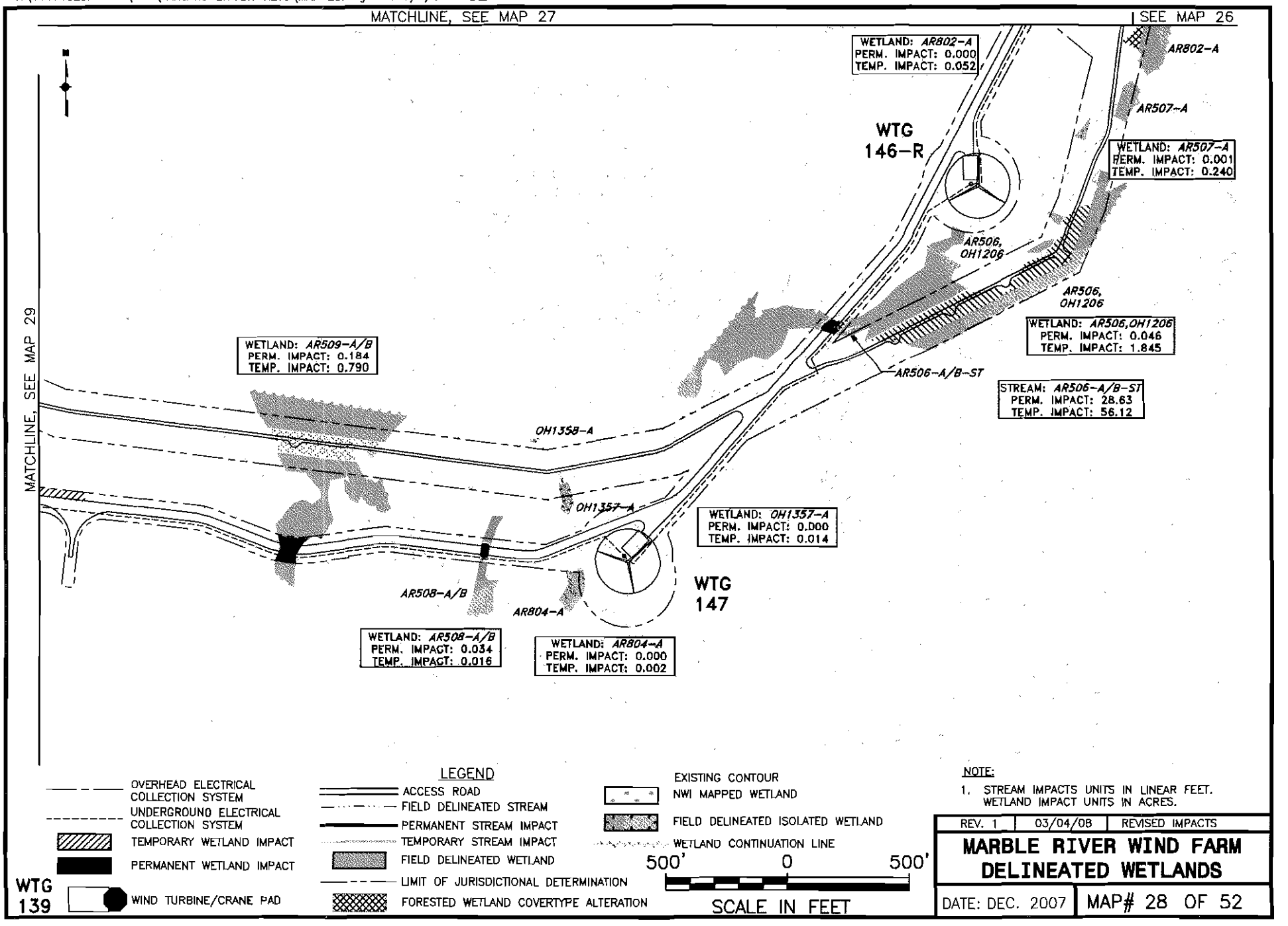

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

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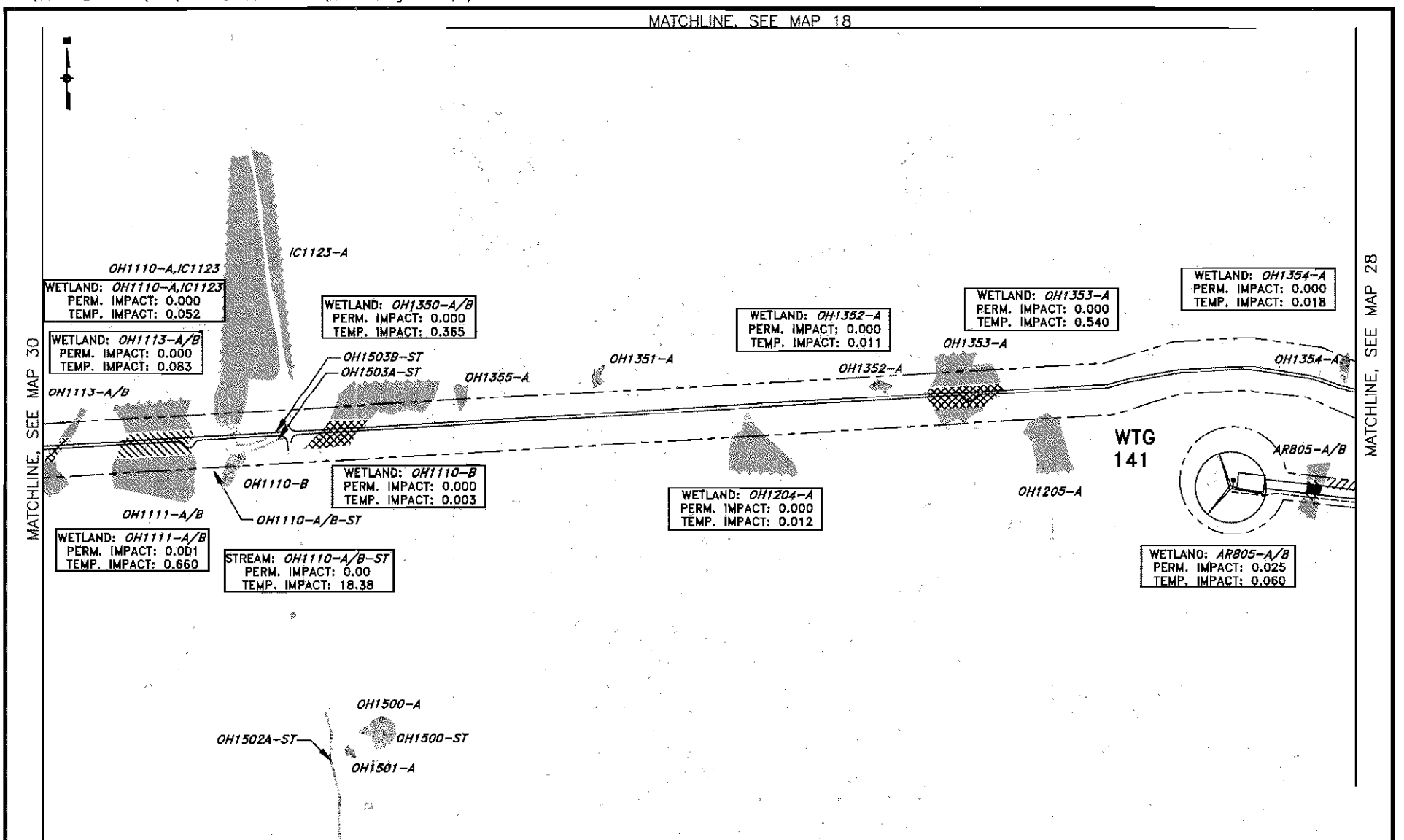

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 29 OF 52

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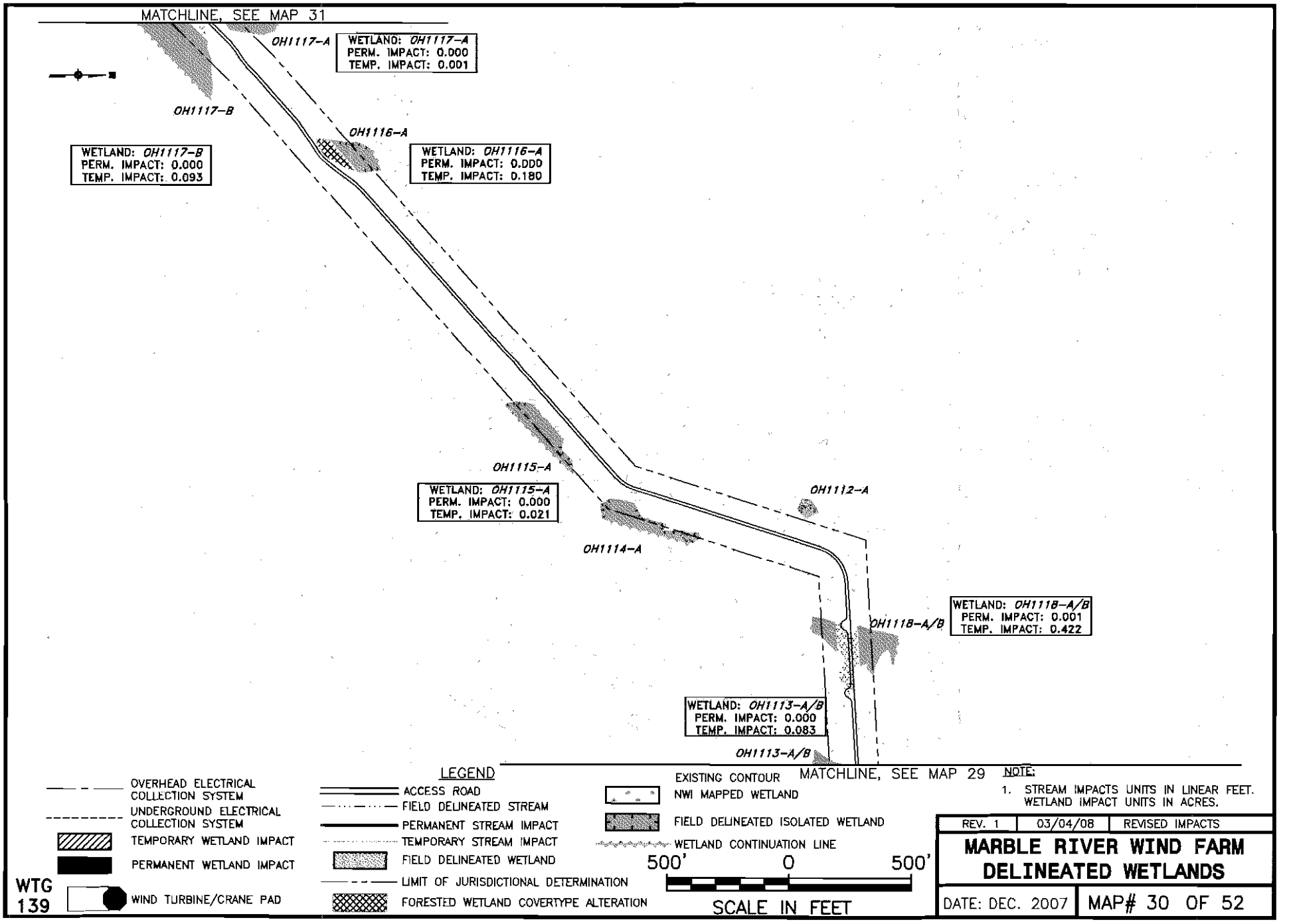

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MATCHLINE, SEE MAP 33

MATCHLINE, SEE MAP 32

WETLAND: OH1120-A/B/C/D
PERM. IMPACT: 0.003
TEMP. IMPACT: 6.050

OH1120-A/B/C/D

STREAM: OH1120-STB
PERM. IMPACT: 0.00
TEMP. IMPACT: 18.55

OH1120-STB

OH1120-STA

STREAM: OH1120-STA
PERM. IMPACT: 0.00
TEMP. IMPACT: 23.05

WETLAND: OH1119-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.171

OH1119-A

WETLAND: OH1117-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.001

OH1117-A

WETLAND: OH1117-B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.093

OH1117-B

OH1522/26/27/31

MATCHLINE, SEE MAP 33

MATCHLINE, SEE MAP 30

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

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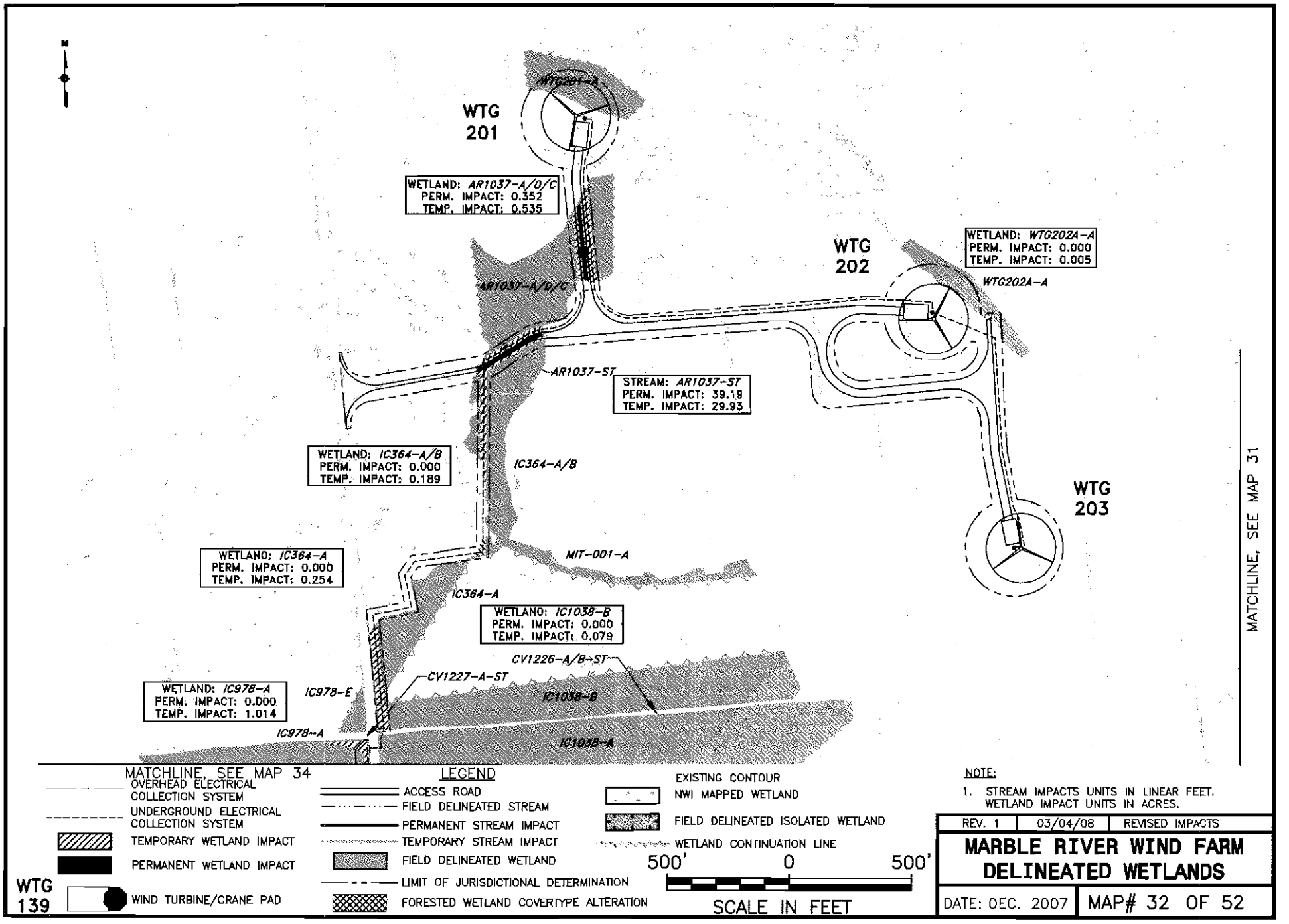

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 32 OF 52

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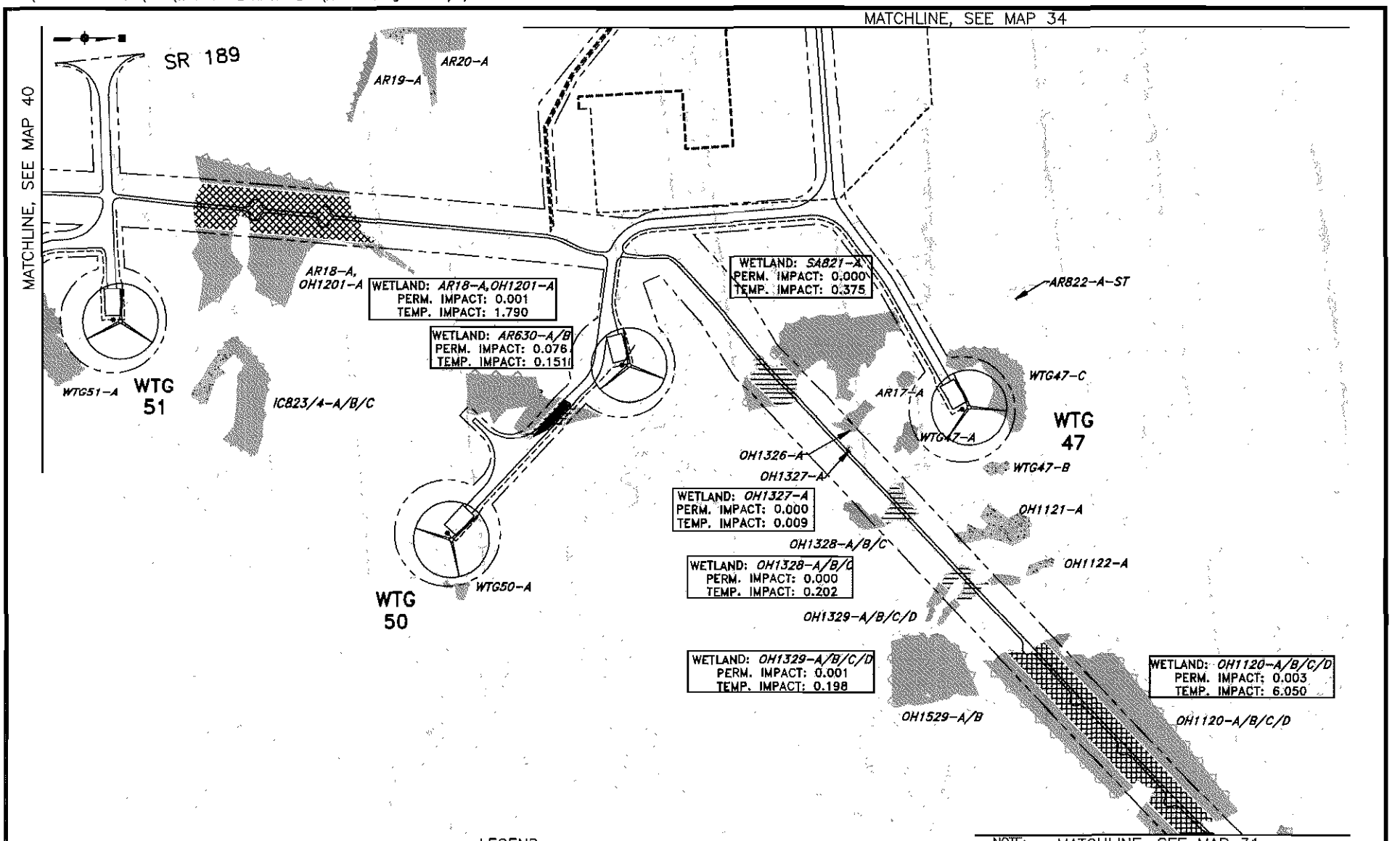

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 33 OF 52

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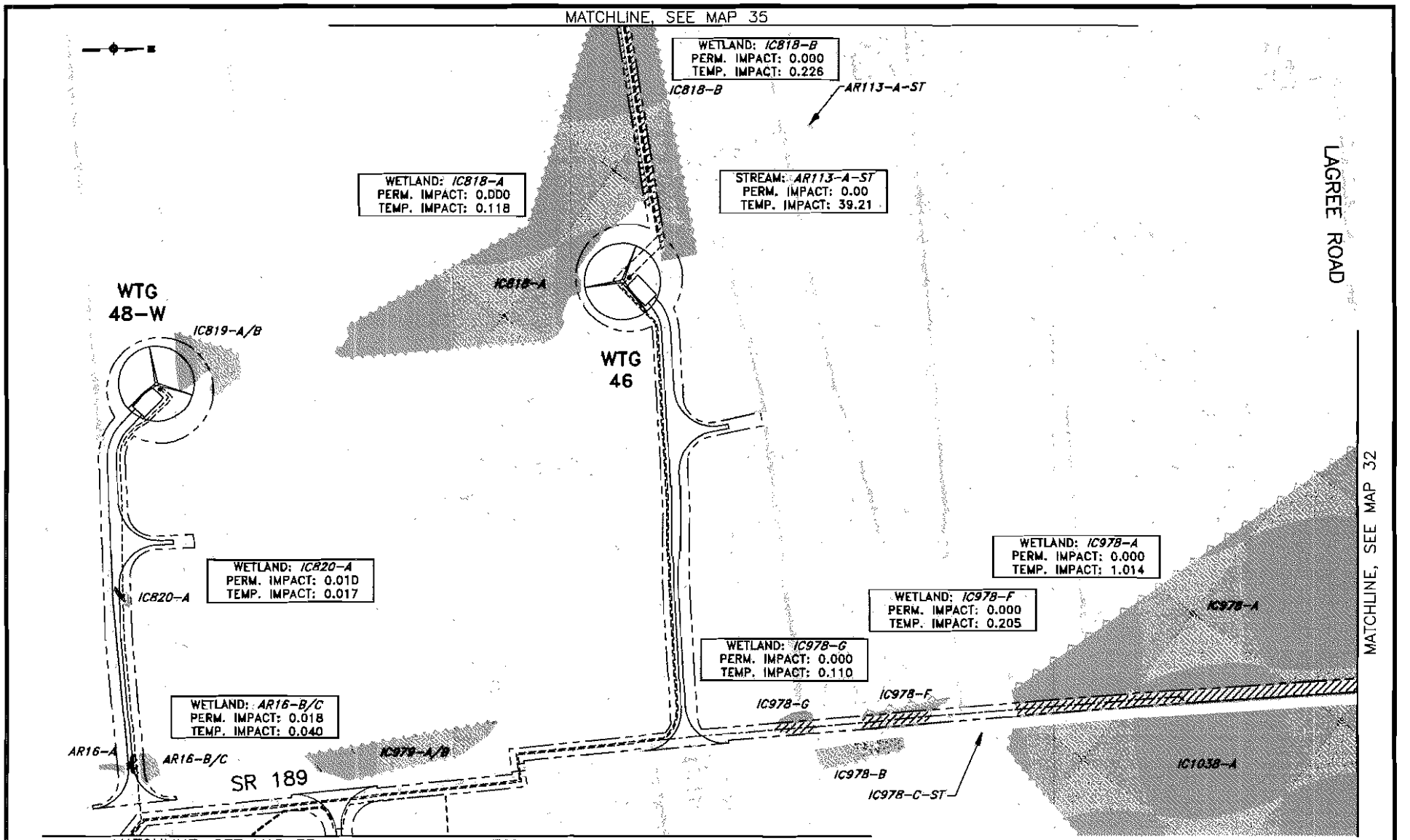

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 34 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV5\MAP 35.dwg 1=1 3/3/08-1 ELB

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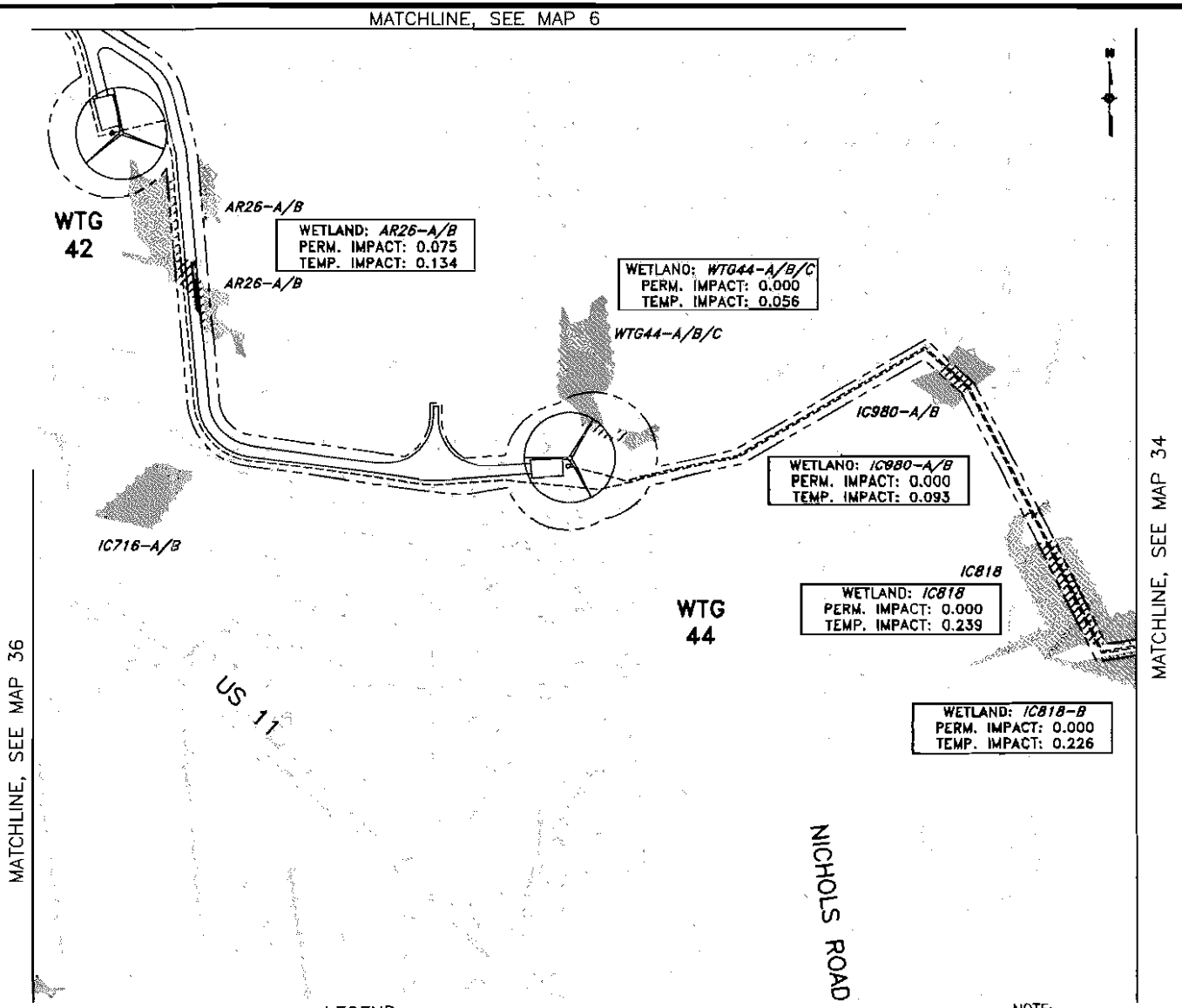

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 35 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 36.DWG 1=1 02/08/08-1 ELB

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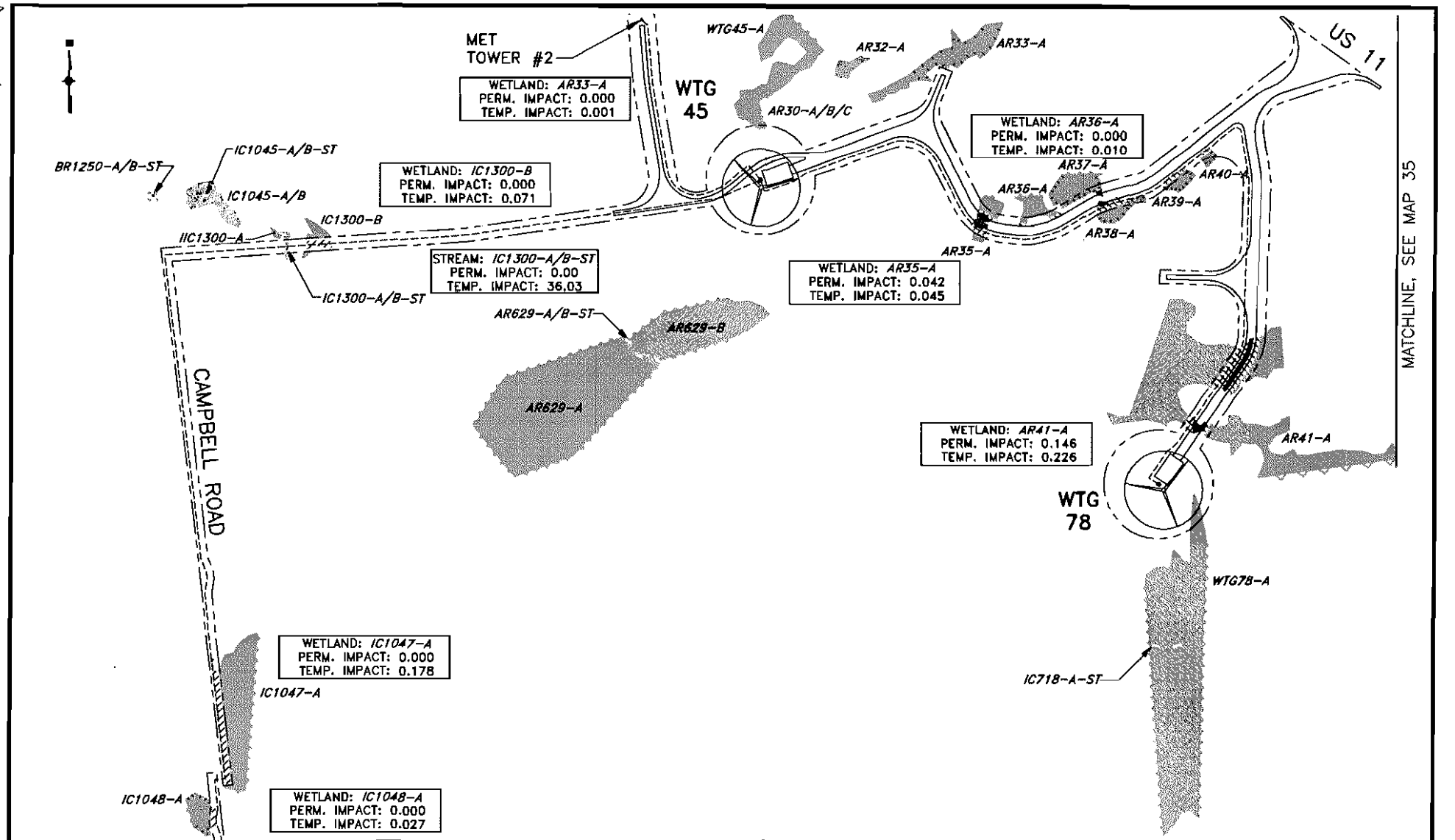

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGRDUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 36 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 37.DWG 1=1 02/08/08-1 ELB

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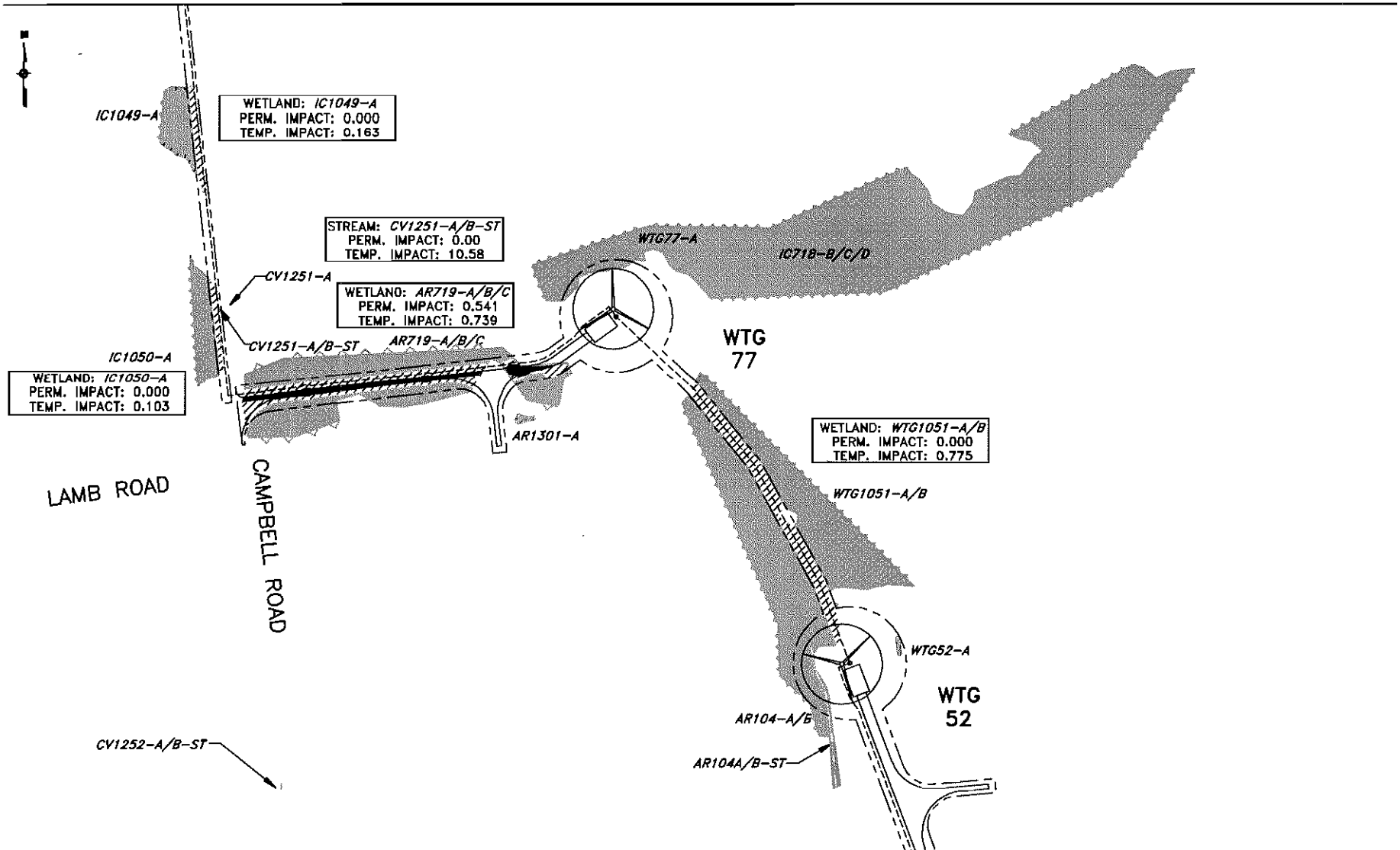
MATCHLINE, SEE MAP 36



MATCHLINE, SEE MAP 38

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 37 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV5\MAP 38.dwg 1=1 3/3/08-1 ELB

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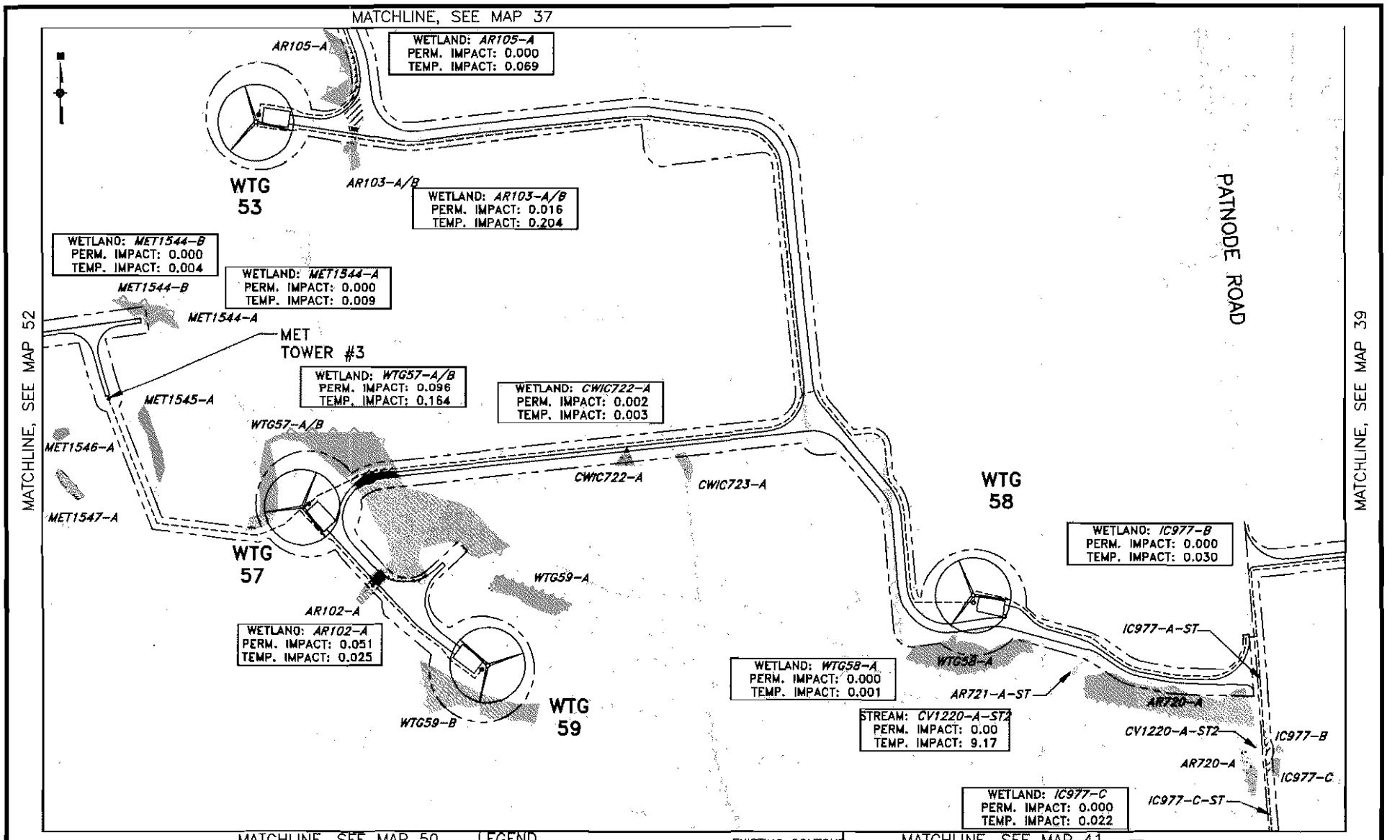

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 38 OF 52

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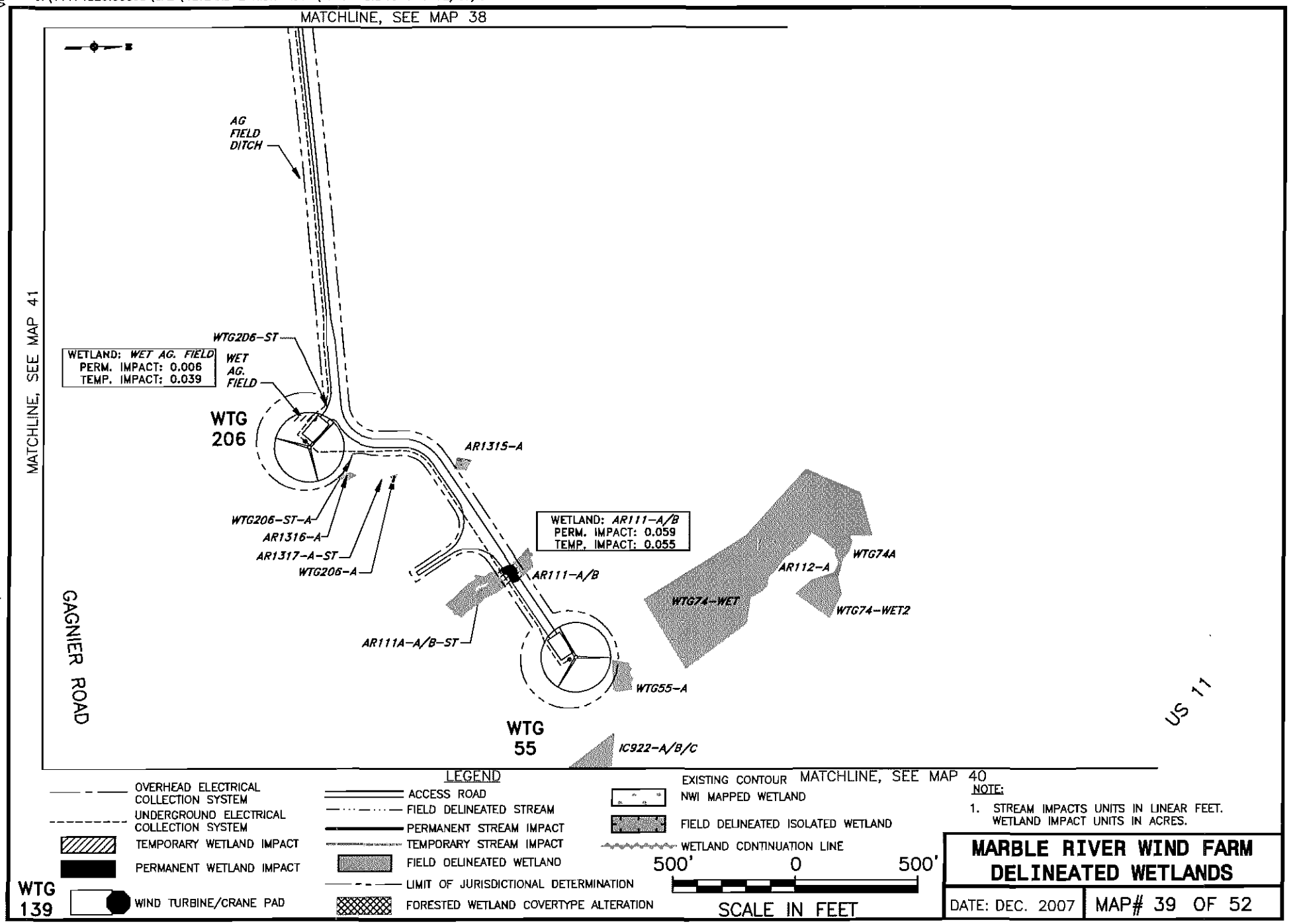
J:\11174823.0000D\CAD\WETLAND EXHIBIT REV3\ MAP 39.DWG 1=1 02/08/08-1 ELB



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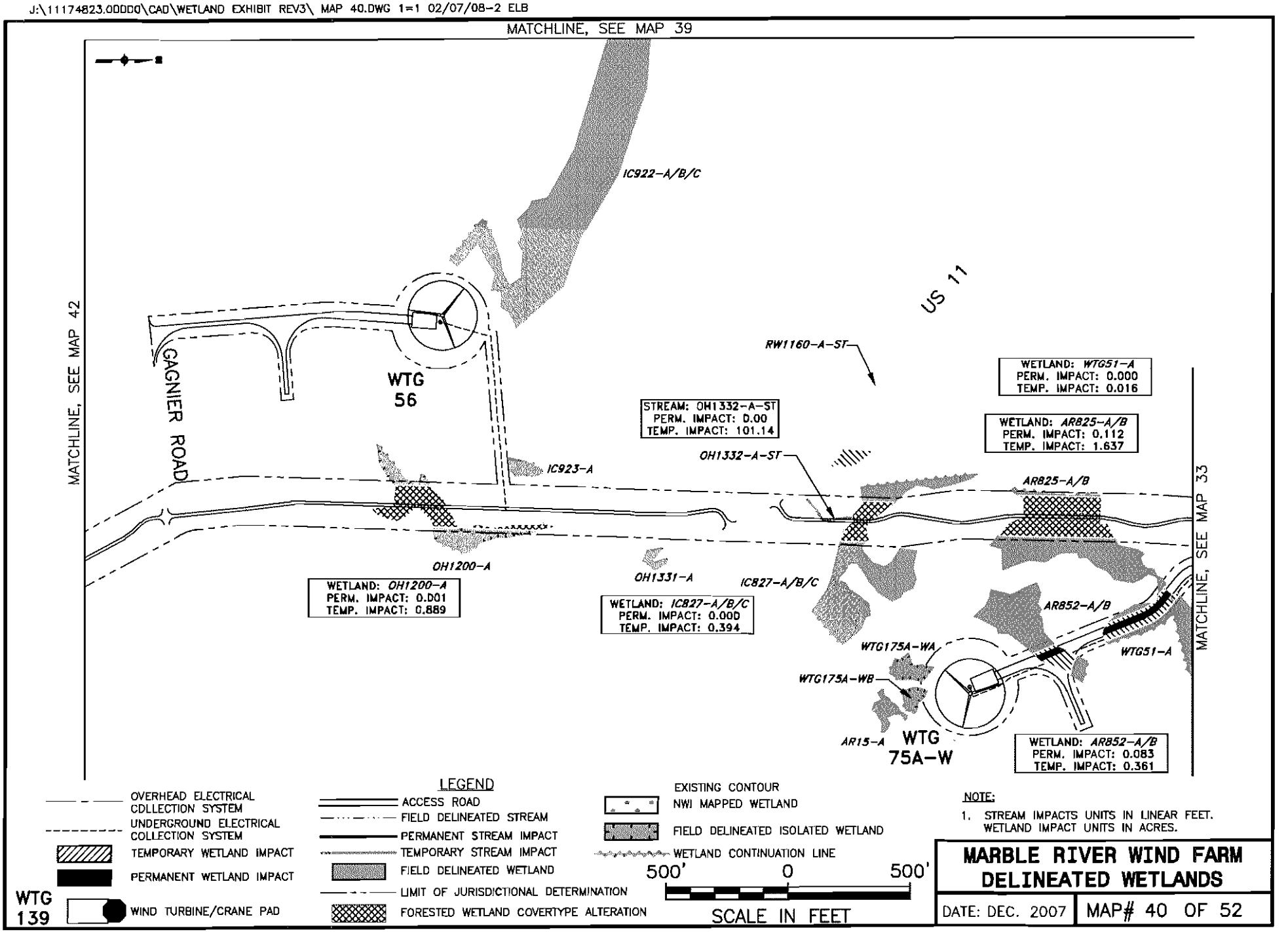

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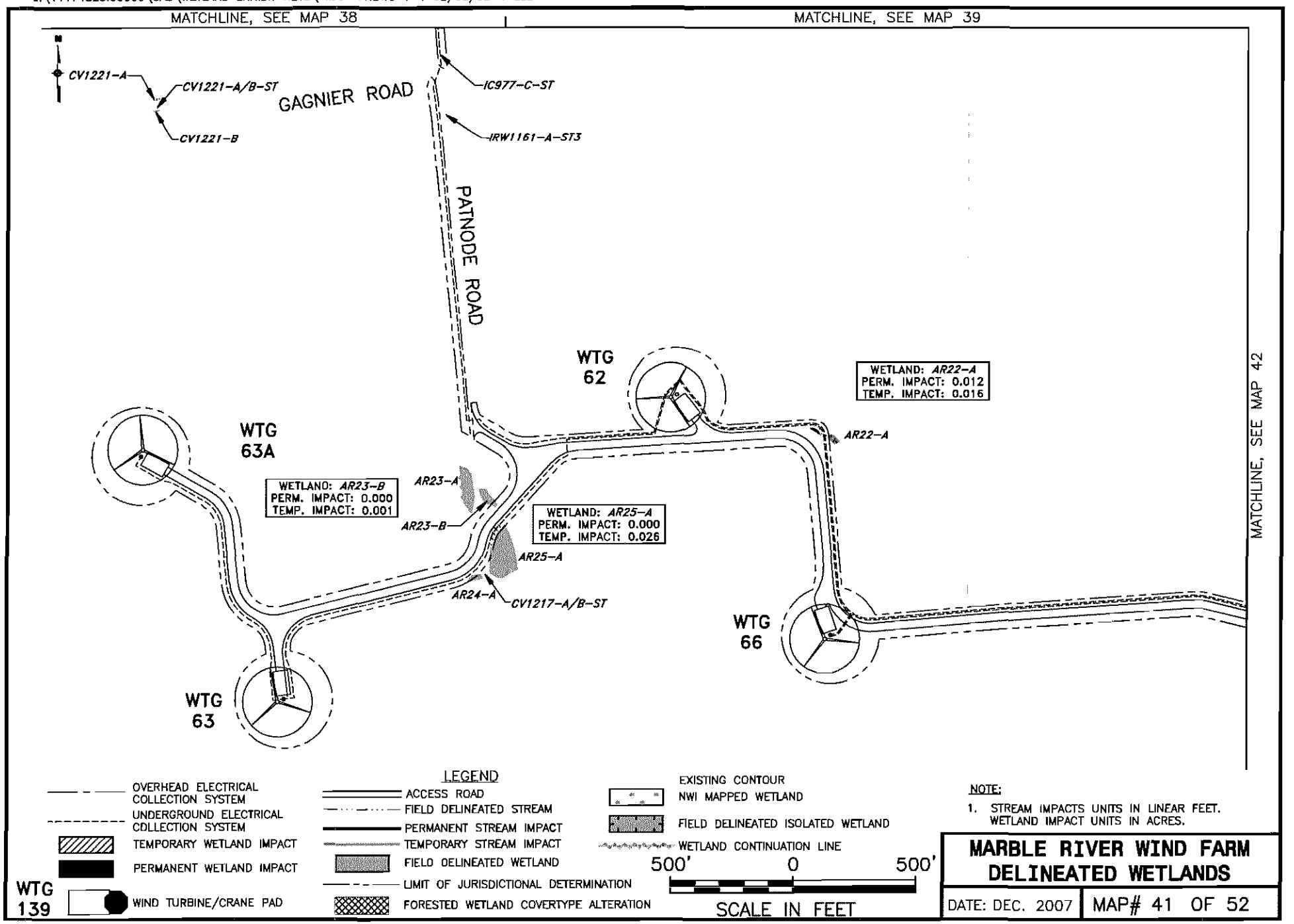
J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 41.DWG 1=1 02/08/08-1 ELB



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MATCHLINE, SEE MAP 40

MATCHLINE, SEE MAP 41

MATCHLINE, SEE MAP 44

MATCHLINE, SEE MAP 45

OH1401-A-ST

WTG 60

WETLAND: AR725-A/B/C
PERM. IMPACT: 0.049
TEMP. IMPACT: 0.057

AR725-A/B/C

WETLAND: OH1330-A/B
PERM. IMPACT: 0.001
TEMP. IMPACT: 0.372

OH1330-A/B

WETLAND: AR725-D
PERM. IMPACT: 0.034
TEMP. IMPACT: 0.051

AR725-D

WTG 73-W

AR724-A-ST

WTG 64

STREAM: IC726-A-ST
PERM. IMPACT: 0.00
TEMP. IMPACT: 37.94

IC726-A-ST

WTG64-A

WETLAND: AR724-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.489

AR724-A

WETLAND: AR926-A/B
PERM. IMPACT: 0.006
TEMP. IMPACT: 9.870

AR926-A/B

WETLAND: AR727-A/B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.496

IC727-A/B

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 42 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 43.DWG 1=1 02/07/08-2 ELB

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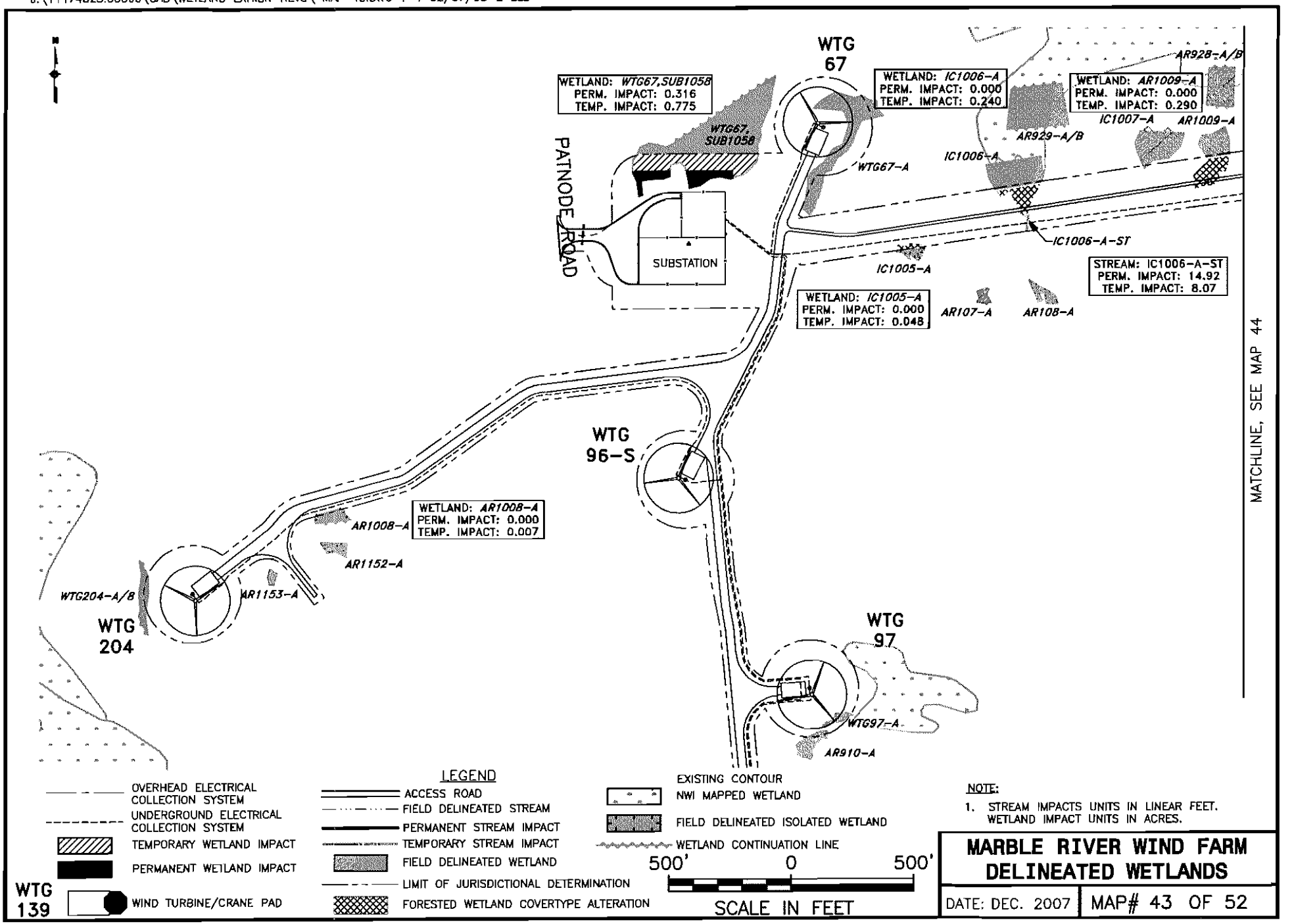

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MATCHLINE, SEE MAP 43

WETLAND: AR927-A/B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.003

AR927-A/B

WETLAND: IC1010-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.026

IC1010-A

AR109-A

AR925-A/B/C, IC

WETLAND: AR925-A/B/C,IC
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.039

AR926-A/B

WETLAND: AR926-A/B
PERM. IMPACT: 0.006
TEMP. IMPACT: 9.870

WTG 89-R

AR11D-A

WTG70R-A, IC1012

WTG70R-C/D

AR2A, WTG89R

WTG70R-A,IC1012

WETLAND: WTG70R-A,IC1012
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.218

WTG1A, AR905

WETLAND: WTG1A,AR905
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.045

WTG 100-R

MIT-3004

MATCHLINE, SEE MAP 42

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
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- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 44 OF 52

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MATCHLINE, SEE MAP 42

WETLAND: IC727-A/B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.496

IC727-A/B

WTG 202

WTG 12

BRANDYBROOK ROAD

AR828-A

AR540-A

WETLAND: AR828-A
PERM. IMPACT: 0.001
TEMP. IMPACT: 0.001

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
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- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 45 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 46.DWG 1=1 02/08/08-1 ELB

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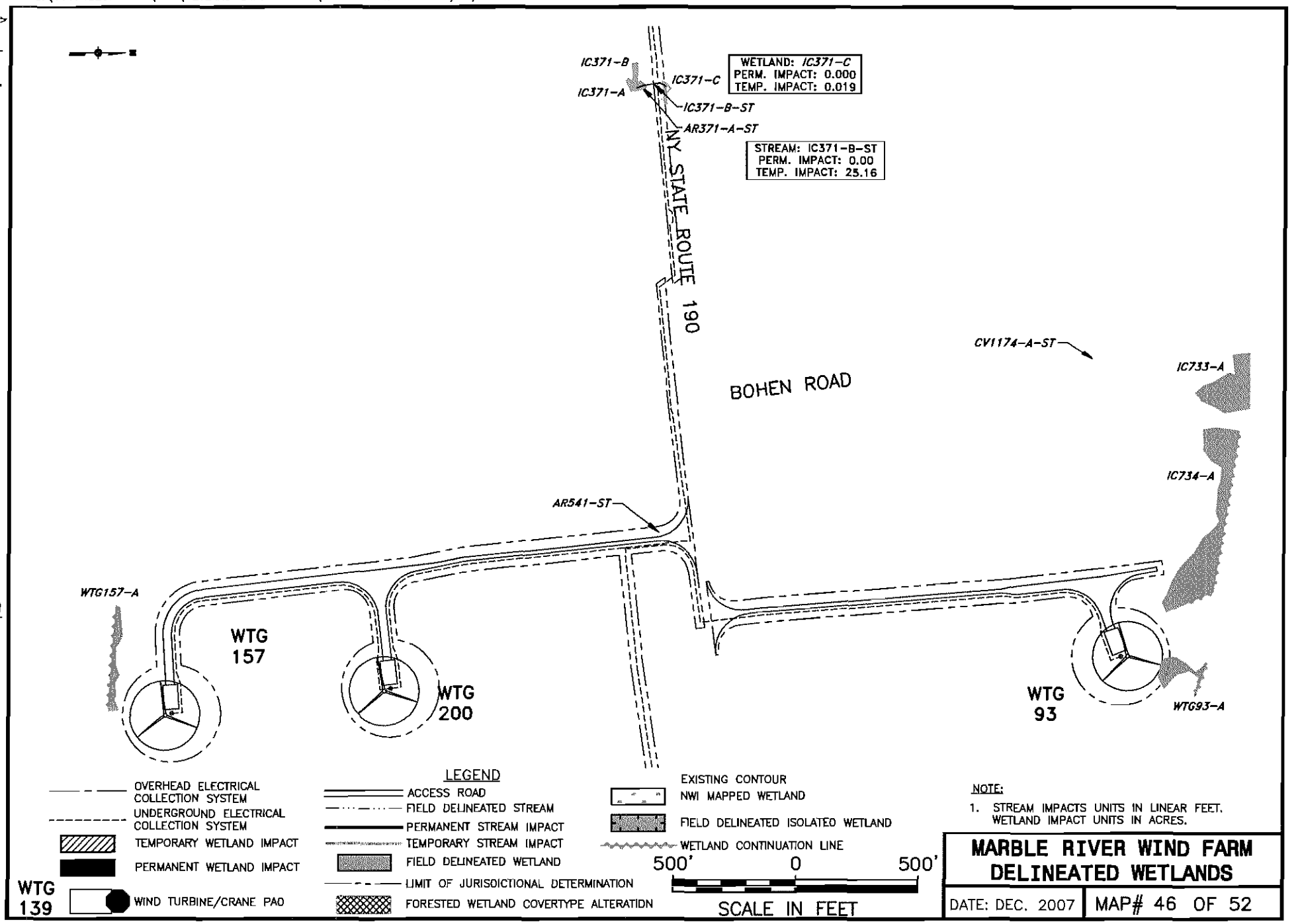

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 47.DWG 1=1 02/08/08-1 ELB

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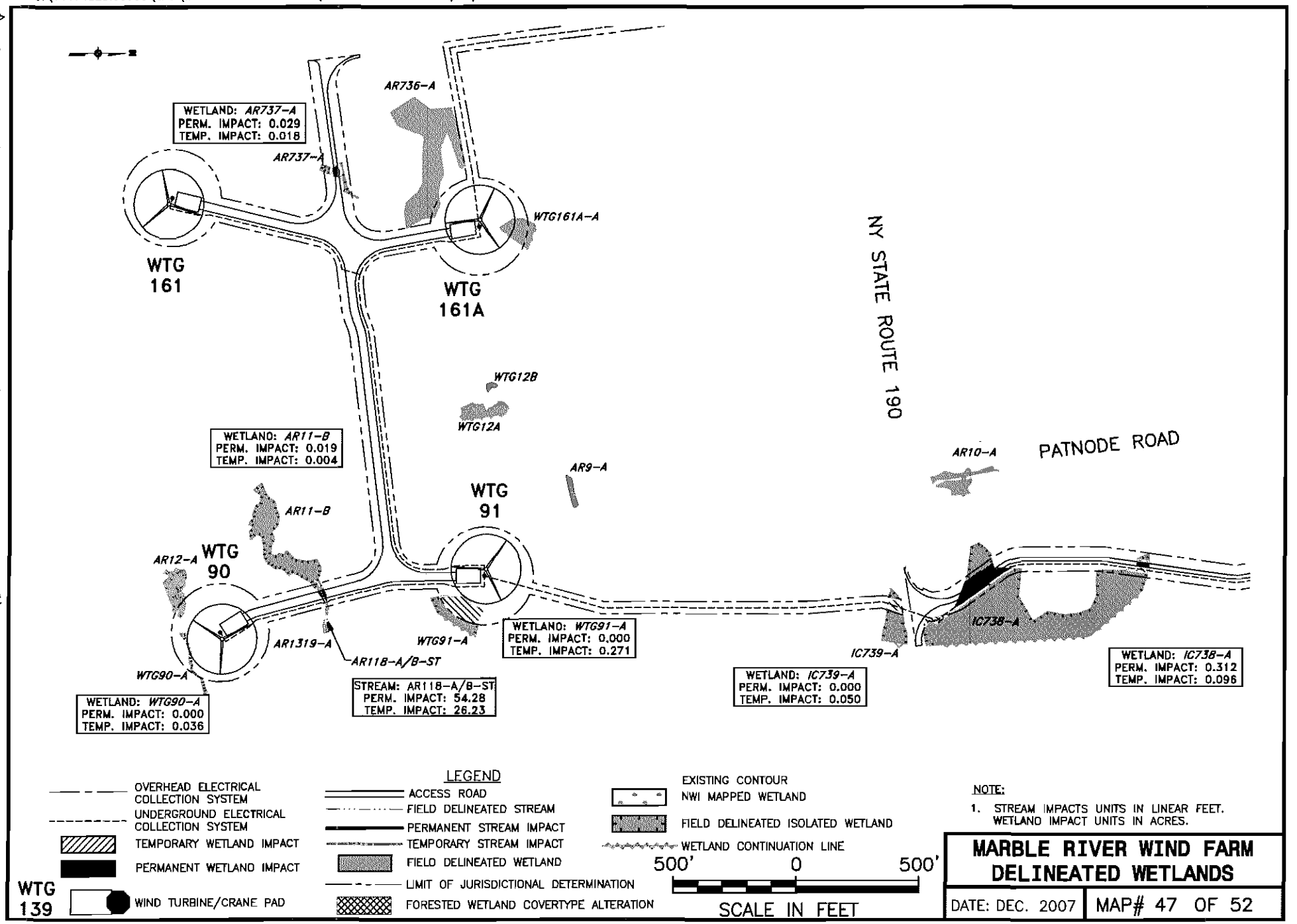

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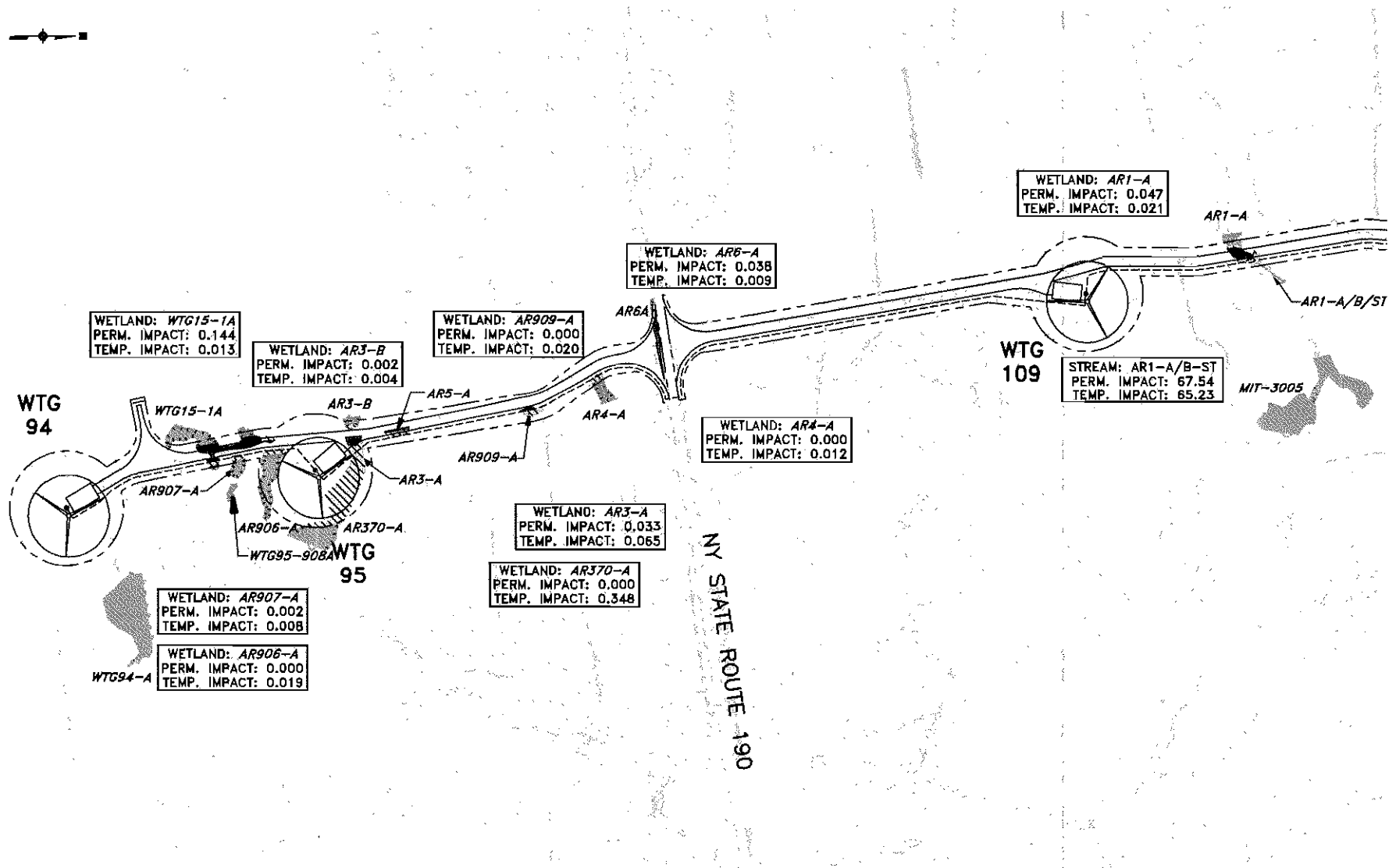

LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

REV. 1	03/04/08	REVISED IMPACTS

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 48 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 50.DWG 1=1 02/08/08-1 ELB

Application No. NAN-2007-00147-WDE

Sheet 51 of 69

MATCHLINE, SEE MAP 38

STREAM: CV1400-A/B, CV1223-A-ST
PERM. IMPACT: 0.00
TEMP. IMPACT: 89.45

CV1222-A/B-ST

WETLAND: CV1400-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.011

CV1400-A/B,CV1223-A-ST

GAGNIER ROAD

CV1400-A

CV1400-C

RW1162-A5

WETLAND: CV1400-C
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.028

CV1256-B-ST

CAMPBELL ROAD

MATCHLINE, SEE MAP 41

LEGEND

OVERHEAD ELECTRICAL COLLECTION SYSTEM
UNDERGROUND ELECTRICAL COLLECTION SYSTEM
TEMPORARY WETLAND IMPACT
PERMANENT WETLAND IMPACT
WTG 139 WIND TURBINE/CRANE PAD

ACCESS ROAD
FIELD DELINEATED STREAM
PERMANENT STREAM IMPACT
TEMPORARY STREAM IMPACT
FIELD DELINEATED WETLAND
LIMIT OF JURISDICTIONAL DETERMINATION
FORESTED WETLAND COVERTYPE ALTERATION

EXISTING CONTOUR
NWI MAPPED WETLAND
FIELD DELINEATED ISOLATED WETLAND
WETLAND CONTINUATION LINE

500' 0 500'
SCALE IN FEET

NOTE:
1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 50 OF 52

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ MAP 51.DWG 1=1 02/08/08-1 ELB

Application No. NAN-2007-00147-WDE

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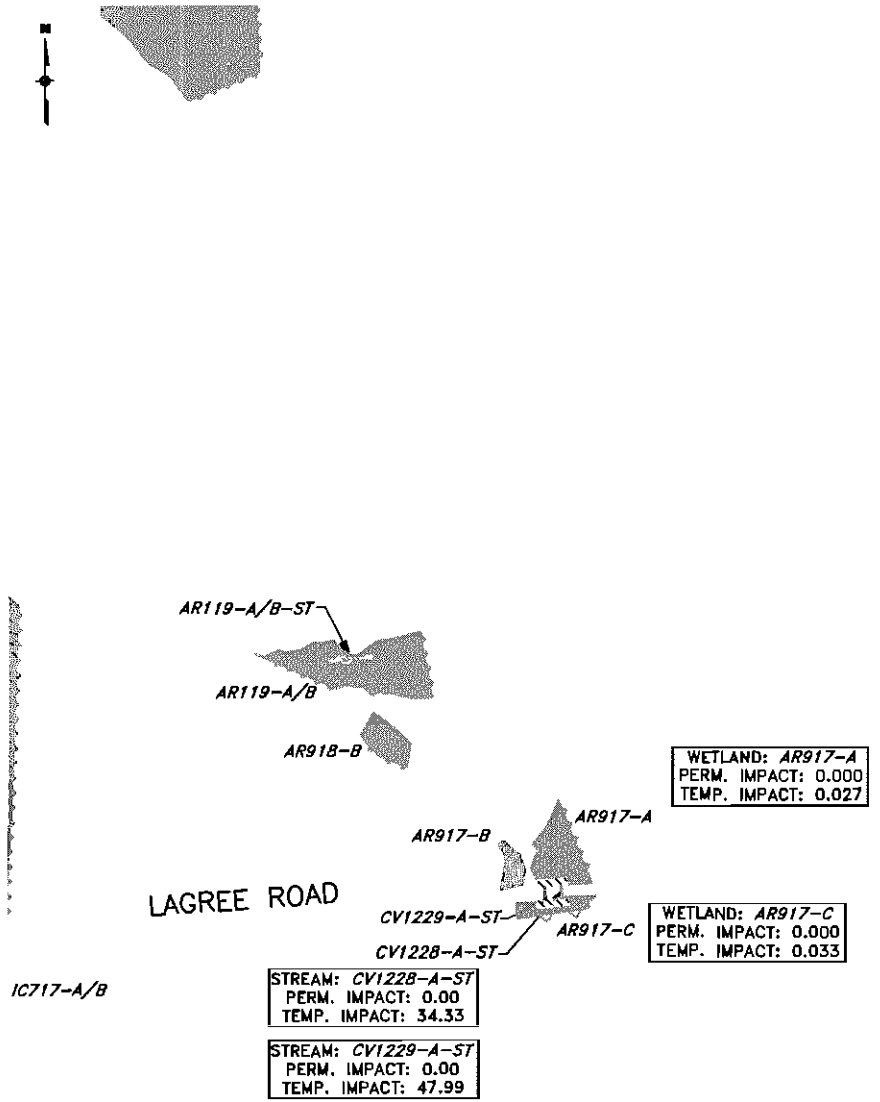


LEGEND

- OVERHEAD ELECTRICAL COLLECTION SYSTEM
- UNDERGROUND ELECTRICAL COLLECTION SYSTEM
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND IMPACT
- WTG 139 — WIND TURBINE/CRANE PAD
- ACCESS ROAD
- FIELD DELINEATED STREAM
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT
- FIELD DELINEATED WETLAND
- LIMIT OF JURISDICTIONAL DETERMINATION
- FORESTED WETLAND COVERTYPE ALTERATION
- EXISTING CONTOUR
- NWI MAPPED WETLAND
- FIELD DELINEATED ISOLATED WETLAND
- WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007 | MAP# 51 OF 52

J:\11174823.00000\CAD\WETLANDS EXHIBIT\ WETLAND EXHIBIT REV2\ MAP 52.DWG 1=1 02/08/08-2 ELB

Application No. NAN-2007-00147-WDC

Sheet 53 of 69

MATCHLINE, SEE MAP 37

CV1253-A/B-ST

CV1253-A

BR1254-B-ST

WETLAND: MET154B-B
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.002

MET1551A/B-STA

MET1551-B

MET154B-B

MET1551-A

MET154B-A

WETLAND: MET1551-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.069

WETLAND: MET154B-A
PERM. IMPACT: 0.000
TEMP. IMPACT: 0.025

CAMPBELL ROAD

MATCHLINE, SEE MAP 38

MATCHLINE, SEE MAP 50

LEGEND

OVERHEAD ELECTRICAL COLLECTION SYSTEM

UNDERGROUND ELECTRICAL COLLECTION SYSTEM

TEMPORARY WETLAND IMPACT

PERMANENT WETLAND IMPACT

WTG 139 — WIND TURBINE/CRANE PAD

ACCESS ROAD

FIELD DELINEATED STREAM

PERMANENT STREAM IMPACT

TEMPORARY STREAM IMPACT

FIELD DELINEATED WETLAND

LIMIT OF JURISDICTIONAL DETERMINATION

FORESTED WETLAND COVERTYPE ALTERATION

EXISTING CONTOUR

NWI MAPPED WETLAND

FIELD DELINEATED ISOLATED WETLAND

WETLAND CONTINUATION LINE

500' 0 500'

SCALE IN FEET

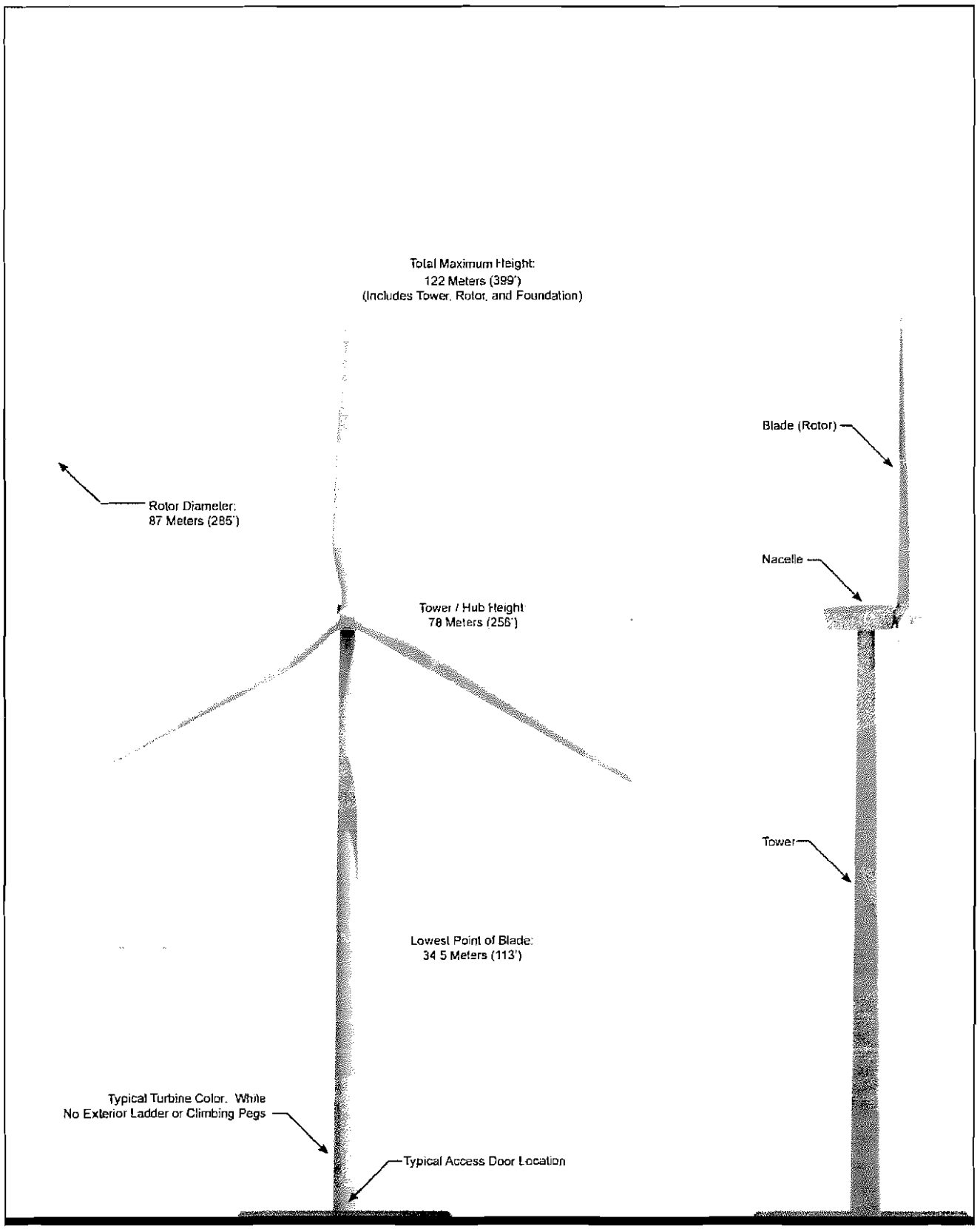
NOTE:

1. STREAM IMPACTS UNITS IN LINEAR FEET. WETLAND IMPACT UNITS IN ACRES.

MARBLE RIVER WIND FARM DELINEATED WETLANDS

DATE: DEC. 2007

MAP# 52 OF 52



Typical Turbine Dimensions

Gamesa G87

Marble River Wind Farm

Towns of Clinton and Ellenburg
Clinton County, New York

Prepared By:

Marble River

December 2007

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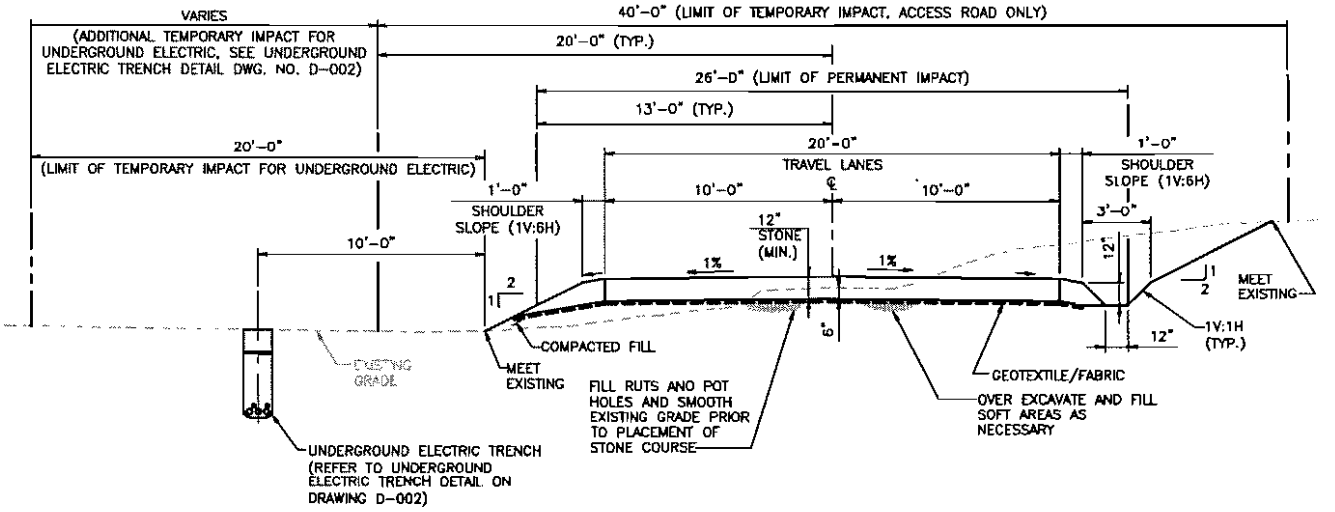

TYPICAL 20' ACCESS ROAD DETAIL

NOT TO SCALE

20' ACCESS ROAD REQUIREMENTS:

1. THE ROAD SURFACE SHALL BE ADEQUATELY COMPACTED FOR A FOURTEEN (14) TON PER AXLE LOAD IN WET OR DRY CONDITIONS, WITH A MAXIMUM 24 INCHES DEVIATION IN A 110-FOOT SPAN.
2. ACCESS ROADS MUST BE GRADED SO AS TO SELF DRAIN AND MUST NOT ALLOW WATER TO PUDDLE.
3. ROADS MUST BE DEFORESTED TO GIVE A HORIZONTAL CLEARANCE OF NO LESS THAN THE LIMIT OF PERMANENT IMPACT, AND A VERTICAL CLEARANCE OF 22 FEET.
4. OVERHEAD OBSTRUCTIONS AS IDENTIFIED BY CONTRACTOR SHALL BE REMOVED BY OWNER PRIOR TO START OF TURBINE EQUIPMENT DELIVERIES, AND TURBINE CONSTRUCTION ACTIVITIES.
5. THE OWNERS BOP CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SURFACE IS FREQUENTLY AND ROUTINELY MAINTAINED AS NECESSARY TO ENSURE THAT THE SURFACE REMAINS IN GOOD CONDITION SUITABLE FOR CONSTRUCTION TRAFFIC.
6. UNDERGROUND ELECTRIC LOCATION VARIES, REFER TO PLAN FOR LOCATIONS.
7. DITCHES SHALL BE CONSTRUCTED AS REQUIRED BY THE APPROVED STORMWATER POLLUTION PREVENTION PLAN AND AS REQUIRED BY CONSTRUCTION.
8. GRADE ALONG DIRECTION OF TRAVEL SHALL NOT EXCEED 12%.
9. COMPACT TO PROVIDE A GROUND BEARING CAPACITY OF NOMINAL 3,600 POUNDS PER SQUARE FOOT IN WET OR DRY CONDITIONS.
10. REFER TO WETLAND PERMIT NOTES ON DRAWING ES-003 FOR SOIL STOCKPILING REQUIREMENTS.

CLIENT:
MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

TYPICAL 20' ACCESS ROAD DETAIL

DATE: FEBRUARY 2008

DETAIL 1

Application No 2007-00147-WDE

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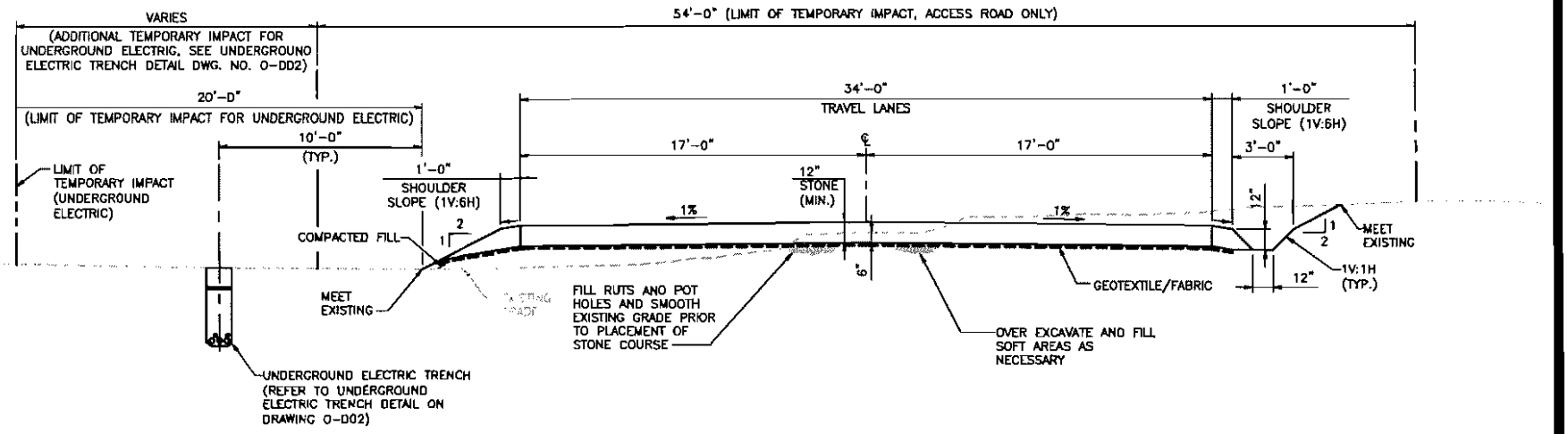
J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ DETAIL 2-NEW.DWG 1=1 02/08/08-1 ELB

Application No. NAN-2007-00147-WD3

Sheet 56 of 69



TYPICAL 34' TEMPORARY ACCESS ROAD DETAIL

NOT TO SCALE

34' ACCESS ROAD REQUIREMENTS:

1. THE TEMPORARY 34' ACCESS ROAD WILL BE REDUCED TO 16' AFTER TURBINE CONSTRUCTION IN ACCRODANCE WITH TYPICAL 34' ROAD TO 16' ROAD REDUCTION DETAIL PRESENTED ON THIS DRAWING.
2. THE ROAD SURFACE SHALL BE ADEQUATELY COMPACTED FOR A FOURTEEN (14) TON PER AXLE LOAD IN WET OR DRY CONDITIONS, WITH A MAXIMUM 24 INCHES DEVIATION IN A 110-FOOT SPAN.
3. ACCESS ROADS MUST BE GRADED SO AS TO SELF DRAIN AND MUST NOT ALLOW WATER TO PUDDLE.
4. ROADS MUST BE DEFORESTED TO GIVE CLEAR CORRIDOR OF NO LESS THAN THE LIMIT OF PERMANENT IMPACT WITH NO OVERHEAD OBSTRUCTIONS.
5. OVERHEAD OBSTRUCTIONS AS IDENTIFIED BY CONTRACTOR SHALL BE REMOVED BY OWNER PRIOR TO START OF TURBINE EQUIPMENT DELIVERIES, AND TURBINE CONSTRUCTION ACTIVITIES.
6. THE OWNERS BOP CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SURFACE IS FREQUENTLY AND ROUTINELY MAINTAINED AS NECESSARY TO ENSURE THAT THE SURFACE REMAINS IN GOOD CONDITION SUITABLE FOR CONSTRUCTION TRAFFIC.
7. ROADS MUST BE CONSTRUCTED WITH A MAXIMUM CROSS GRADIENT OF 1%.
8. GRADE ALONG DIRECTION OF TRAVEL SHALL NOT EXCEED 12%.
9. COMPACT TO PROVIDE A GROUND BEARING CAPACITY OF NOMINAL 3,600 POUNDS PER SQUARE FOOT IN WET OR DRY CONDITIONS.
10. FOR GRADES >6%, INCREASE THE GROUND BEARING CAPACITY BY 25%.
11. SHOULDER SLOPES OF ROADS MUST BE NO GREATER THAN 45°.
12. ALL CREEKS AND DITCHES WITHIN THE CRANE PATH MUST BE FILLED AND MADE DRIVABLE. PROVIDE CULVERTS IF REQUIRED.
13. UNDERGROUND ELECTRIC LOCATION VARIES, REFER TO PLAN FOR LOCATIONS.
14. REFER TO WETLAND PERMIT NOTES ON DRAWING ES-003 FOR SOIL STOCKPILING REQUIREMENTS.

CLIENT:

MARBLE RIVER, LLC

URS Corporation

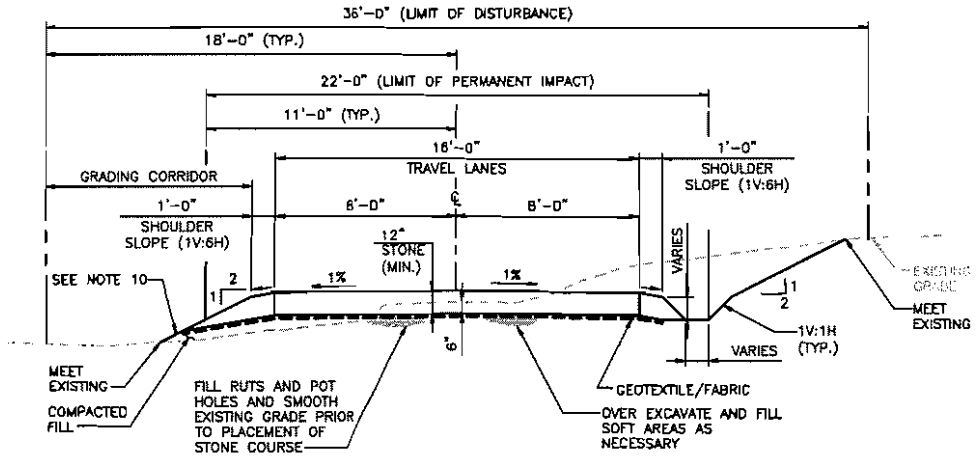
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

TYPICAL 34' TEMPORARY ACCESS ROAD DETAIL

DATE: FEBRUARY 2008

DETAIL 2

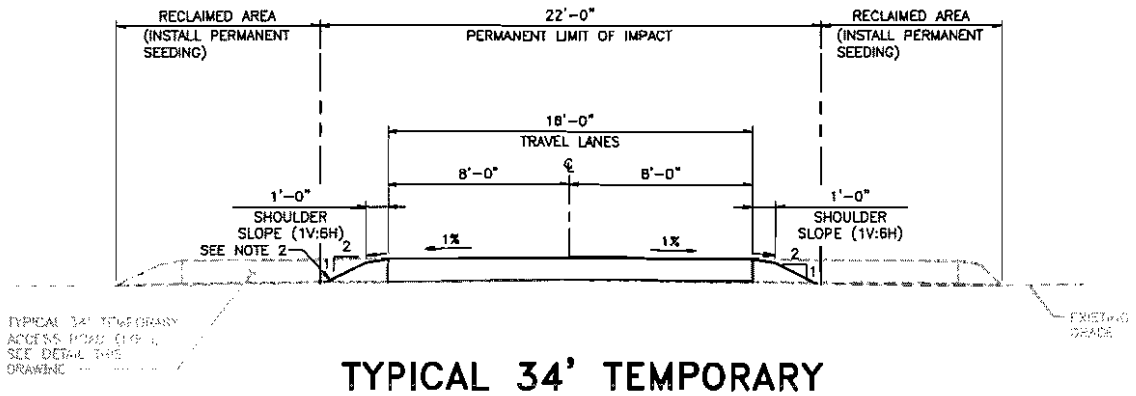


TYPICAL 16' ACCESS ROAD DETAIL

NOT TO SCALE

16' ACCESS ROAD REQUIREMENTS:

1. THE ROAD SURFACE SHALL BE ADEQUATELY COMPACTED FOR A FOURTEEN (14) TON PER AXLE LOAD IN WET OR DRY CONDITIONS, WITH A MAXIMUM 24 INCHES DEVIATION IN A 10-FOOT SPAN.
2. ACCESS ROADS SHALL BE GRADED SO AS TO SELF DRAIN AND MUST NOT ALLOW WATER TO PUDDLE.
3. ROADS SHALL BE CLEARED TO GIVE A HORIZONTAL CLEARANCE OF NO LESS THAN THE LIMIT OF PERMANENT IMPACT, AND A VERTICAL CLEARANCE OF 22 FEET.
4. OVERHEAD OBSTRUCTIONS AS IDENTIFIED BY CONTRACTOR WILL BE REMOVED BY OWNER PRIOR TO START OF TURBINE EQUIPMENT DELIVERIES AND TURBINE CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL MAINTAIN THE SURFACE IN CONDITION SUITABLE FOR CONSTRUCTION TRAFFIC.
6. DITCHES SHALL BE CONSTRUCTED AS REQUIRED BY THE APPROVED STORMWATER POLLUTION PREVENTION PLAN AND AS REQUIRED BY CONSTRUCTION.
7. GRADE ALONG DIRECTION OF TRAVEL SHALL NOT EXCEED 12%.
8. COMPACT TO PROVIDE A GROUND BEARING CAPACITY OF NOMINAL 3,600 POUNDS PER SQUARE FOOT IN WET OR DRY CONDITIONS.
9. REFER TO WETLAND PERMIT NOTES ON DRAWING ES-003 FOR SOIL STOCKPILING REQUIREMENTS.
10. MINIMIZE CONCENTRATED FLOW OFF OF ROAD. RUN-OFF TO DISSIPATE EVENLY THROUGH SILT FENCE AND INTO PASTURE OR WOODS.



TYPICAL 34' TEMPORARY ACCESS ROAD RESTORATION DETAIL

NOT TO SCALE

NOTES:

1. IN AREAS WHERE DITCHES HAVE BEEN CONSTRUCTED, THE PERMANENT ROAD SHALL BE ALONG THE DITCH SIDE AND NOT CENTERED WITHIN THE 34 FOOT ROAD.
2. MINIMIZE CONCENTRATED FLOW OFF OF ROAD-RUN-OFF TO DISSIPATE EVENLY THROUGH SILT FENCE AND INTO PASTURE OR WOODS.

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ DETAIL 3-NEW.DWG 1=1 02/08/08-1 ELB

CLIENT: MARBLE RIVER, LLC	MARBLE RIVER WIND FARM
URS Corporation 77 Goodell Street, Buffalo, New York 14203 (716)856-5636 - (716)856-2545 fax	TYPICAL 16' ACCESS ROAD DETAIL AND TYPICAL 34' TEMPORARY ACCESS ROAD RESTORATION DETAIL
	DATE: FEBRUARY 2008 — DETAIL 3

Application No. NAN-2007-00147-NDE

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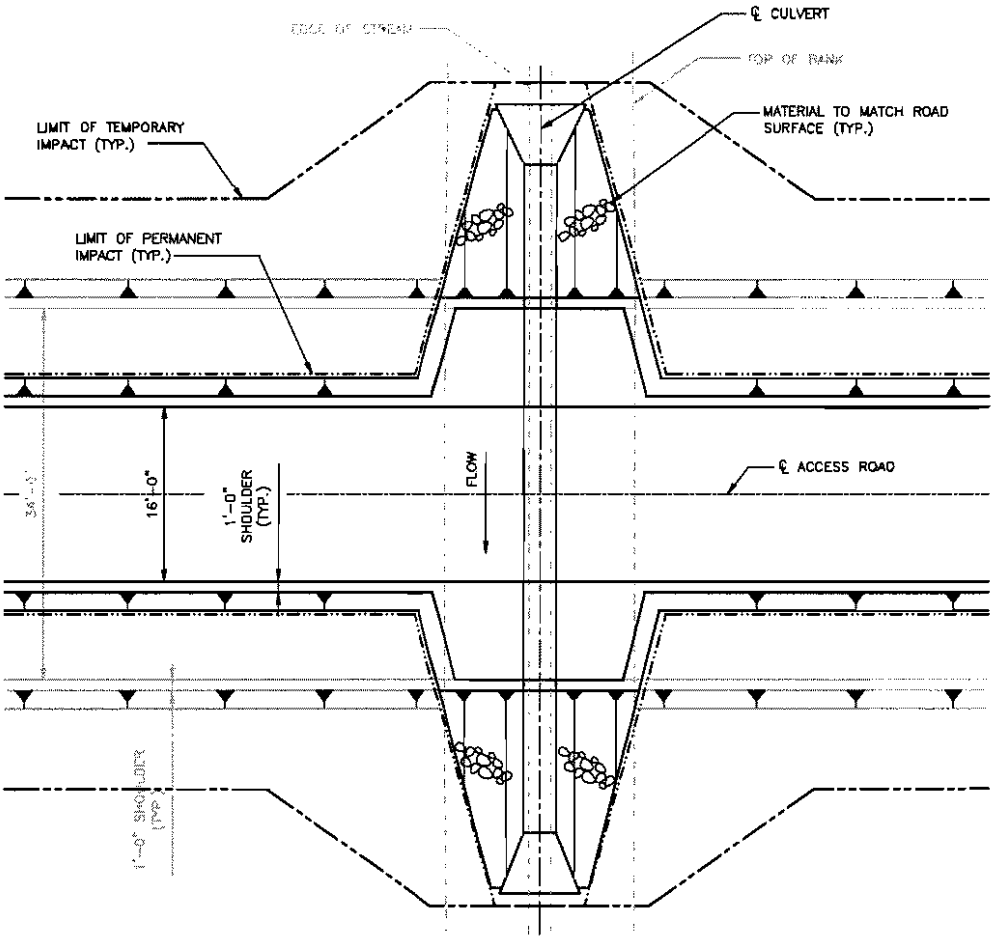

PLAN

NOTES:

1. IN AREA OF RECLAMATION, STOCK PILED SOIL/WETLAND SOIL SHALL BE PLACED TO BRING GRADE TO ACCESS ROAD ELEVATION.
2. RECLAIMED AREA ABOVE CULVERT WILL BE RESTORED AND PLANTED WITH THE SPECIFIED PLANTING MATERIAL.

TYPICAL 34 FOOT TEMPORARY ACCESS ROAD RESTORATION AT A CULVERT DETAIL

NOT TO SCALE

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CLIENT:

MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

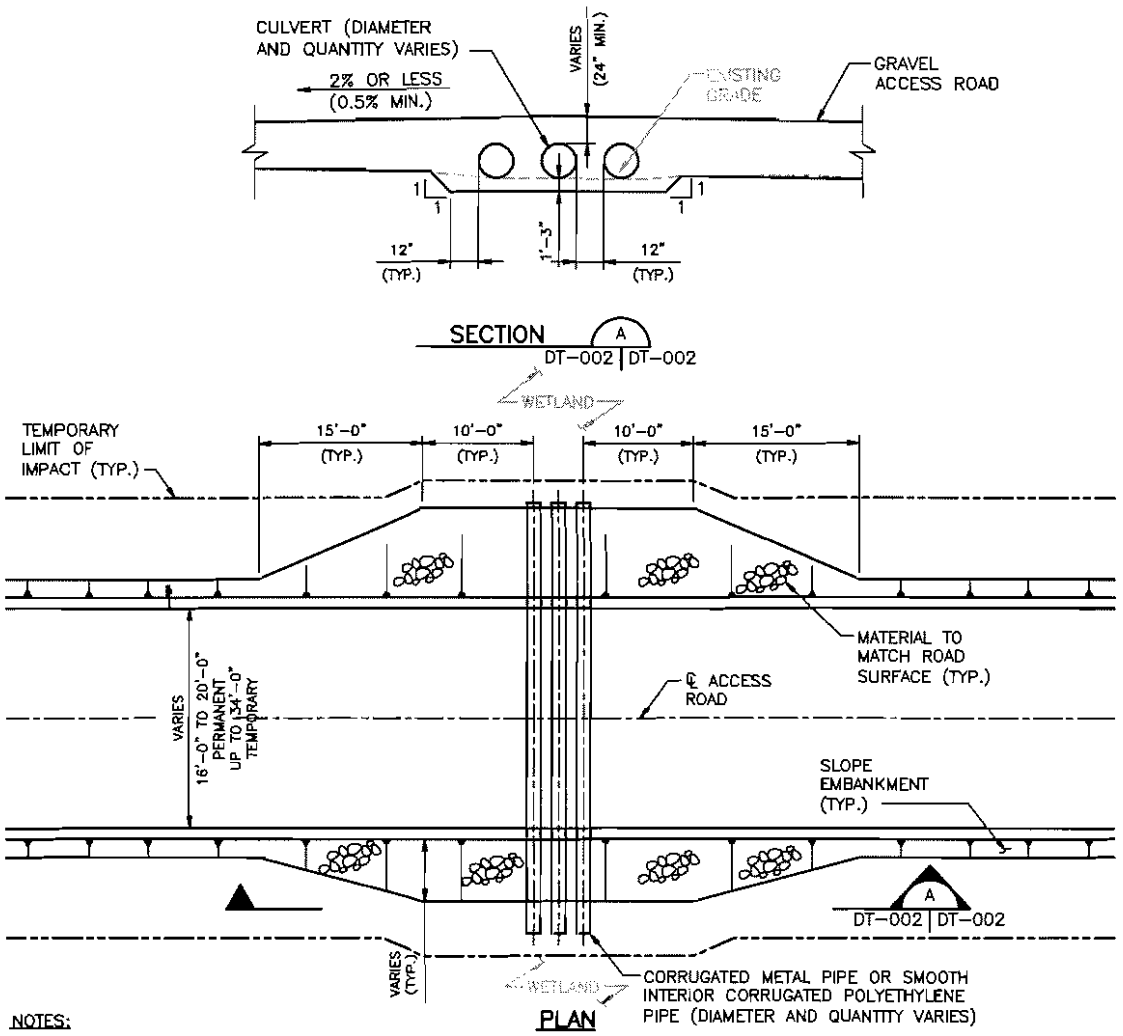
MARBLE RIVER WIND FARM

TYPICAL 34' TEMPORARY ACCESS ROAD RESTORATION AT A CULVERT DETAIL

DATE: FEBRUARY 2008

DETAIL 4

Application No. NAN-2007-00147-WDE



NOTES:

1. THIS DETAIL SHALL BE USED IN AREAS WHERE STREAMS DO NOT EXIST BUT PONDING OCCURS IN WET SEASONS.
2. THE CULVERT PLACEMENT SHALL BE PLACED TO PROVIDE FREE FLOW OF PONDEO WATER WITHIN A WETLAND FROM ONE SIDE OF THE ROAO TO ANOTHER.
3. THE NUMBER AND SIZE OF CULVERTS SHALL BE DETERMINED BY THE CONTRACTOR AND REGULATORY AGENCY IN THE FIELD, UNLESS ALREADY NOTED ON THE PLANS.
4. CULVERT AUGNMENT SHALL MATCH EXISTING DRAINAGE PATH ALIGNMENT AS CLOSELY AS POSSIBLE.
5. WHERE EXSTING CULVERTS ARE TO BE REPLACED, THE NEW CULVERT(S) SIZE SHALL MEET OR EXCEED THAT OF THE EXISTING CULVERT. SHOULD THE CULVERT SIZE CALLED OUT ON THE PLANS BE SMALLER THAN THE EXISTING CULVERT, THE ENGINEER SHOULD BE CONTACTED.

CULVERT AT WETLAND DETAIL

NOT TO SCALE

CLIENT:

MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

CULVERT AT WETLAND DETAIL

DATE: MARCH 2008

DETAIL 5

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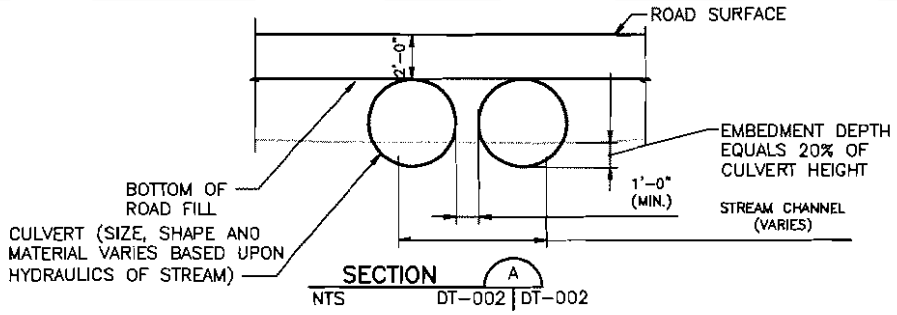
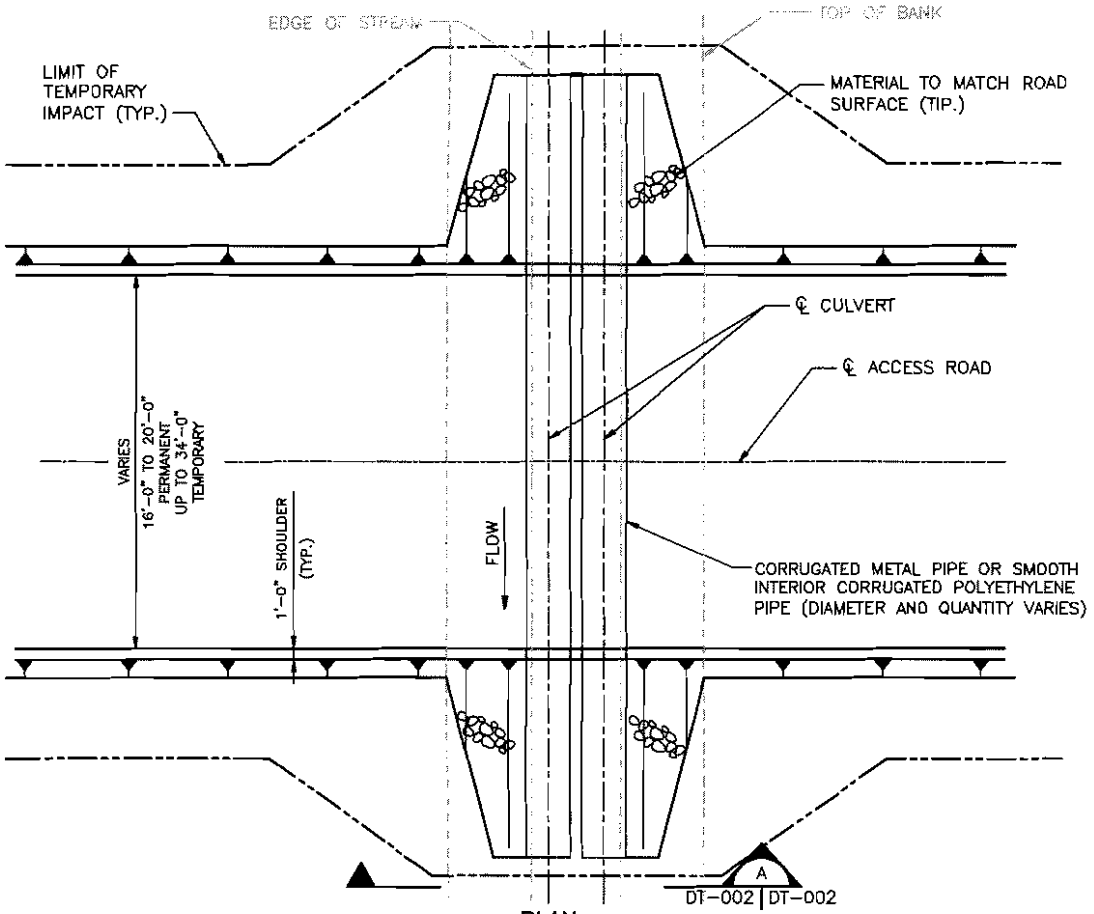
Application No. NAN-2007-00147-WDE





PLAN

NOTES:

1. CULVERTS SHALL BE INSTALLED IN A MANNER THAT WILL ALLOW THE INVERT OF THE PIPE TO SILT IN.
2. CULVERT SIZE SHALL BE AS SHOWN ON THE PLANS. MULTIPLE CULVERTS WILL BE INSTALLED WHERE APPROPRIATE TO MINIMIZE EMBANKMENT FILLS ACROSS CLASSIFIED STREAMS.
3. REFER TO WETLAND PERMIT NOTES ON DRAWING ES-003 FOR SOIL STOCKPILING REQUIREMENTS.
4. REFER TO DETAIL 44 ON DRAWING ES-007 FOR THE CULVERT CROSSING DETAIL AT NON-CLASSIFIED STREAM CROSSINGS.
5. TOTAL CULVERT WIDTH (I.E. THE SUM OF ALL CULVERT DIAMETERS USED IN THE CROSSING) FOR C(T) DESIGNATED STREAMS SHALL BE 1.25 TIMES THE CHANNEL BED WIDTH.
6. CULVERT ALIGNMENT SHALL MATCH EXISTING DRAINAGE PATH ALIGNMENT AS CLOSELY AS POSSIBLE.
7. WHERE EXSTING CULVERTS ARE TO BE REPLACED, THE NEW CULVERT(S) SIZE SHALL MEET OR EXCEED THAT OF THE EXISTING CULVERT. SHOULD THE CULVERT SIZE CALLED OUT ON THE PLANS BE SMALLER THAN THE EXISTING CULVERT, THE ENGINEER SHOULD BE CONTACTED.

OVER SIZED CULVERT AT STREAM CROSSING DETAIL

NOT TO SCALE

CLIENT:

MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

OVER SIZED CULVERT AT STREAM CROSSING DETAIL

DATE: MARCH 2008

DETAIL 6

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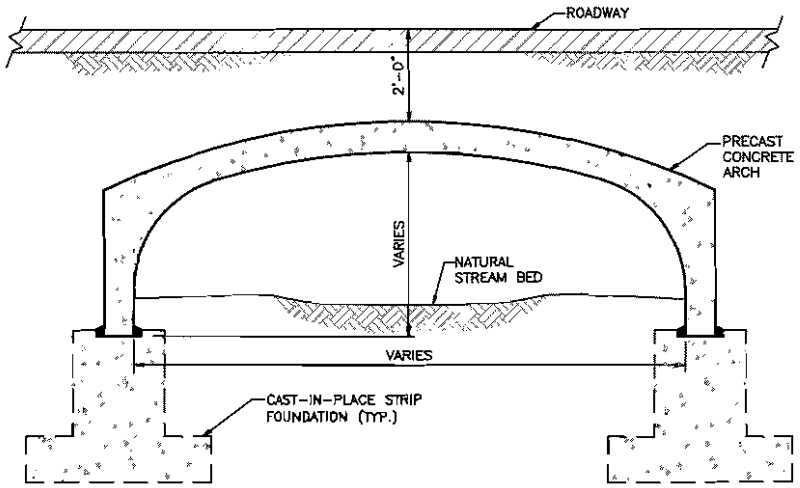
Application No. NAN-2007-00147-WDE

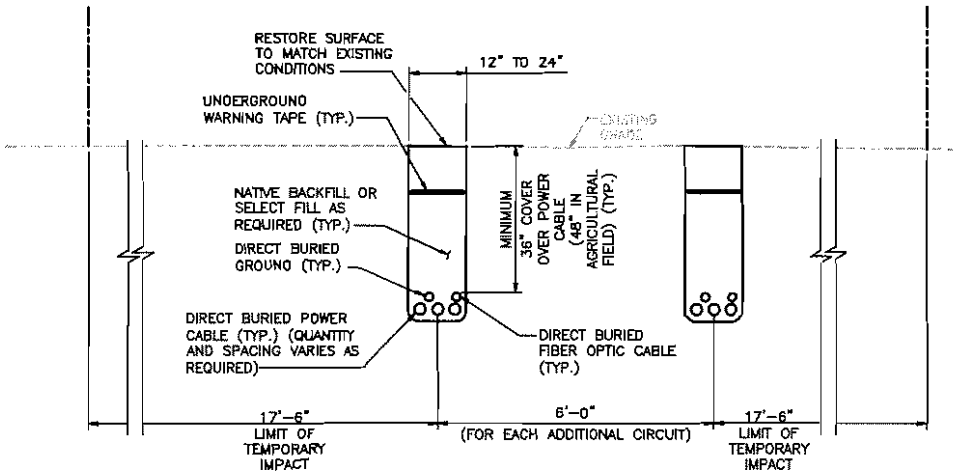


NOTES:

1. ARCH SIZE SHALL BE AS SHOWN ON PLANS.
2. INSTALLATION OF ARCH SHALL BE AS REQUIRED BY THE MANUFACTURER.

BOTTOMLESS CULVERT AT STREAM CROSSING DETAIL

NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL EXCAVATE AND STOCK PILE TOPSOIL OR WETLAND SOIL DURING EXCAVATION ACTIVITIES. THIS STOCK PILED MATERIAL SHALL BE USED AS BACKFILL FOR THE TOP 12" OF THE TRENCH.
2. IMPACT LIMITS SHOWN APPLY TO TRENCH INSTALLATIONS NOT IN PROXIMITY TO ACCESS ROADS. REFER TO DRAWING D-001 FOR UNDERGROUND ELECTRIC TRENCH DETAIL ALONG ACCESS ROADS.
3. REFER TO WETLAND PERMIT NOTES ON DRAWING ES-003 FOR SOIL STOCKPILING REQUIREMENTS.

UNDERGROUND ELECTRIC TRENCH DETAIL

NOT TO SCALE

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CLIENT:

MARBLE RIVER, LLC

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

BOTTOMLESS CULVERT AT STREAM CROSSING DETAIL AND UNDERGROUND ELECTRIC TRENCH DETAIL

DATE: MARCH 2008

DETAIL 7

Application No. NAN-2007-00147-WDE

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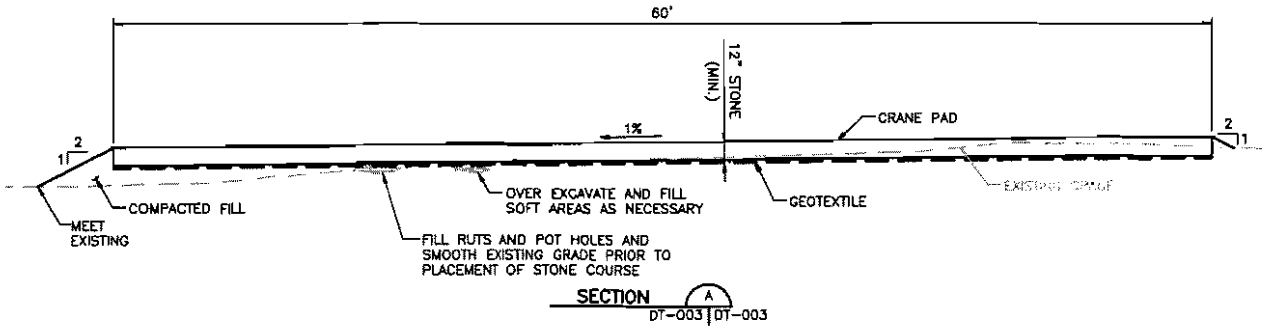
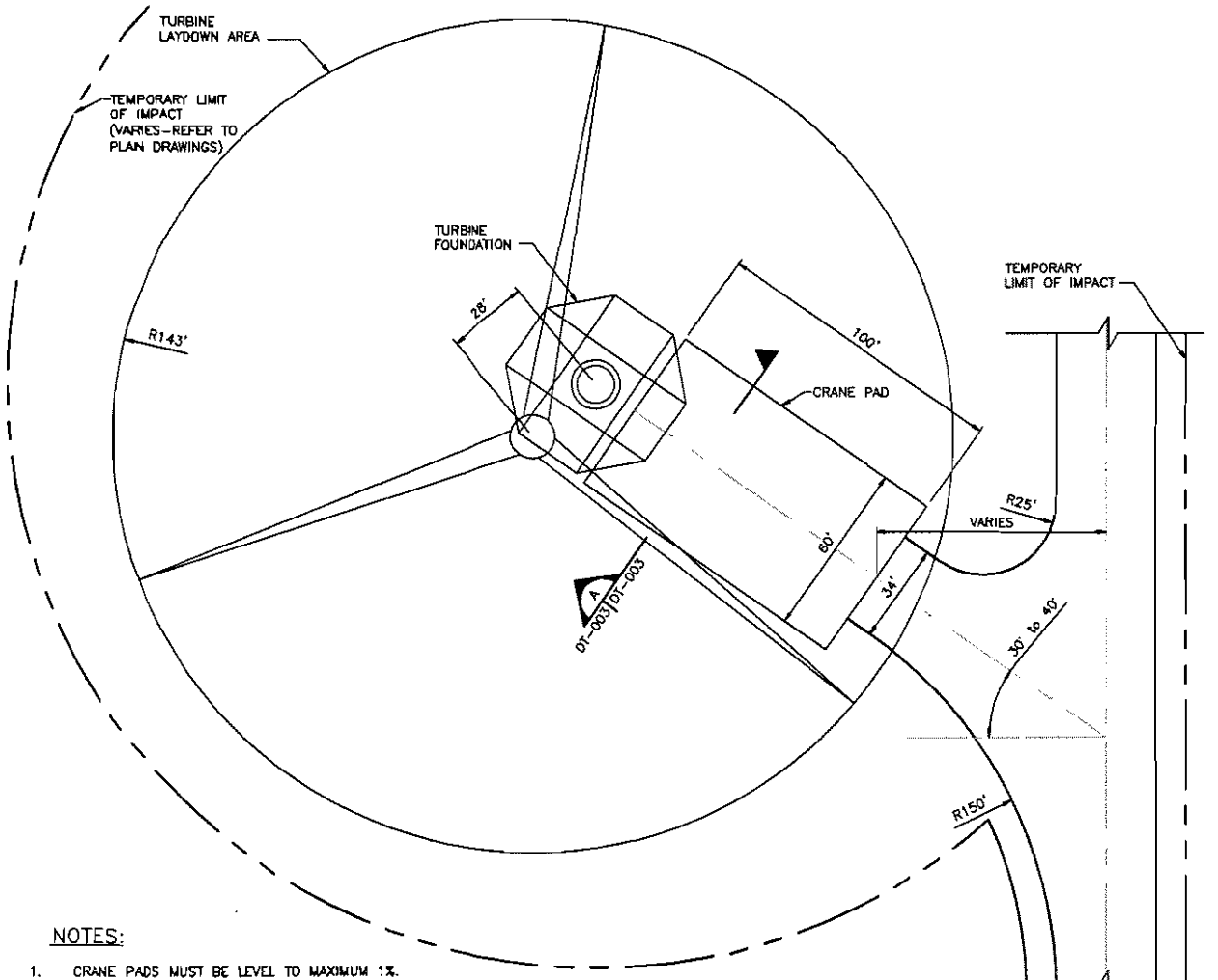


NOT TO SCALE



NOTES:

1. CRANE PADS MUST BE LEVEL TO MAXIMUM 1%.
2. COMPACT CRANE PAD TO PROVIDE A GROUND BEARING CAPACITY OF NOMINAL 3,600 POUNDS PER SQUARE FOOT IN WET OR DRY CONDITIONS.
3. THE TRANSITION AREAS SHALL BE BACKFILLED WITH THE SUBGRADE MATERIAL UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION DRAWINGS.

TYPICAL TURBINE LAYOUT DETAIL

NOT TO SCALE

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ DETAIL 8-NEW.DWG 1=1 02/08/08-1 ELB

CLIENT:

MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

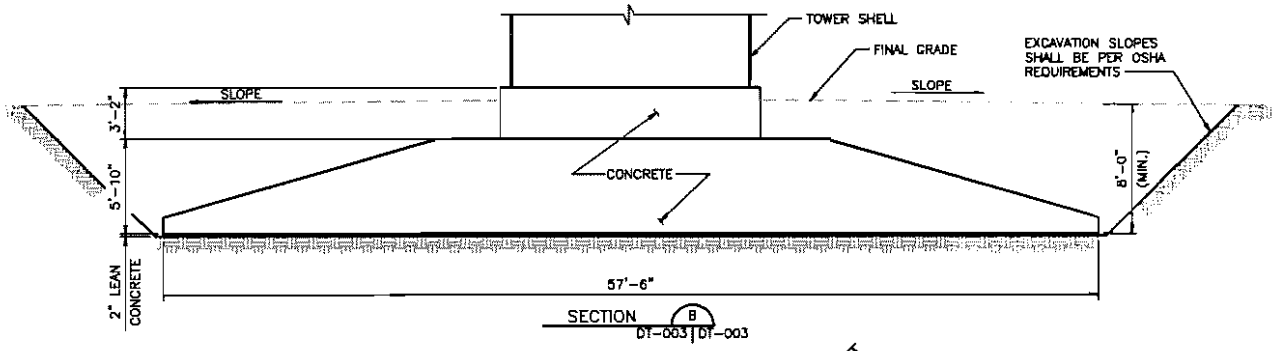
MARBLE RIVER WIND FARM

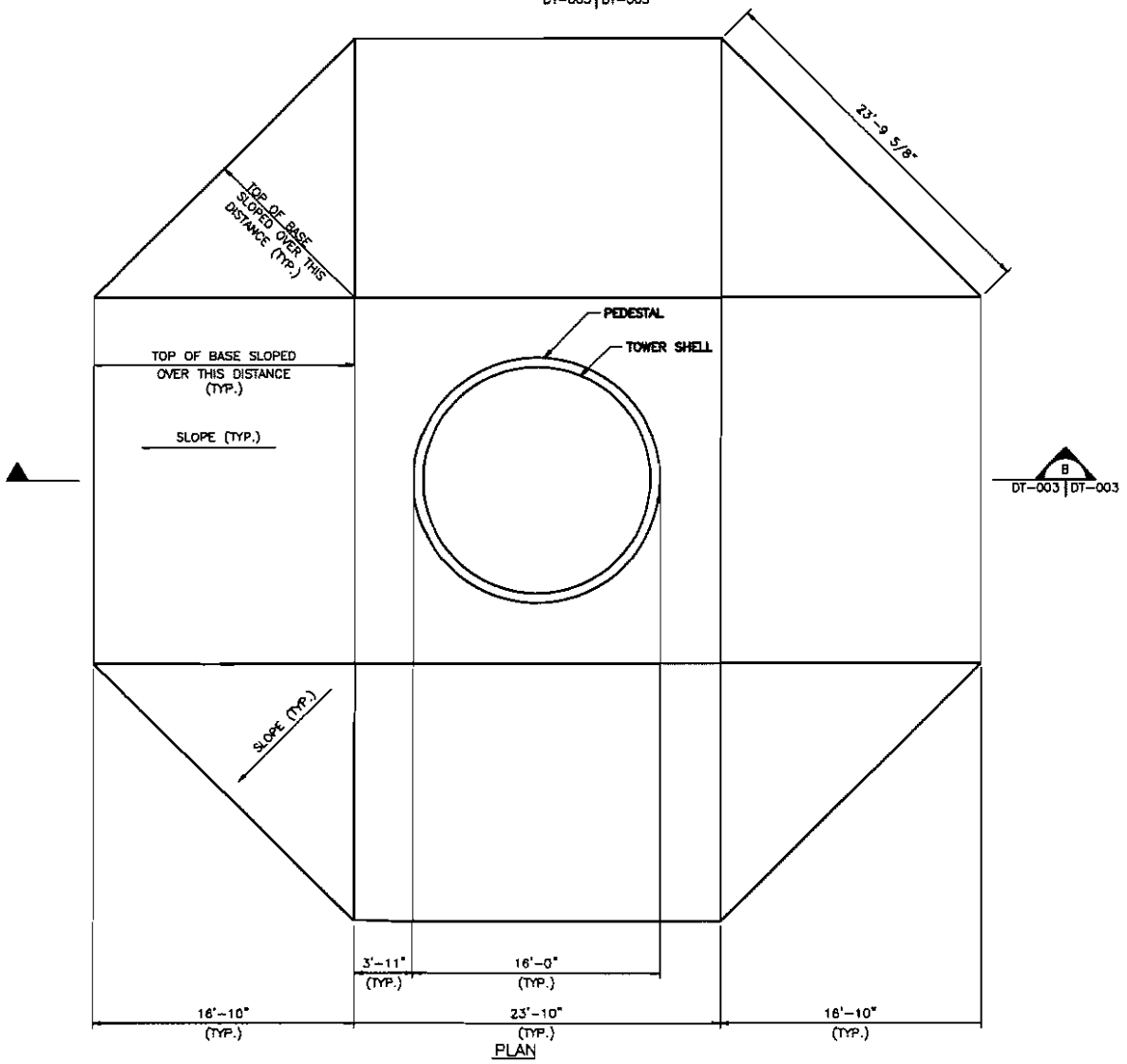
BOTTOMLESS CULVERT AT STREAM CROSSING DETAIL AND UNDERGROUND ELECTRIC TRENCH DETAIL

DATE: FEBRUARY 2008

DETAIL 8

Application No. NAN-2007-00147-WDE





TYPICAL TURBINE FOUNDATION DETAIL

NOT TO SCALE

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CLIENT:

MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

TYPICAL TURBINE FOUNDATION DETAIL

DATE: FEBRUARY 2008

DETAIL 9

Application No. NAN-2007-00147-WDE

App. No: NAN-2007-00417-WDE

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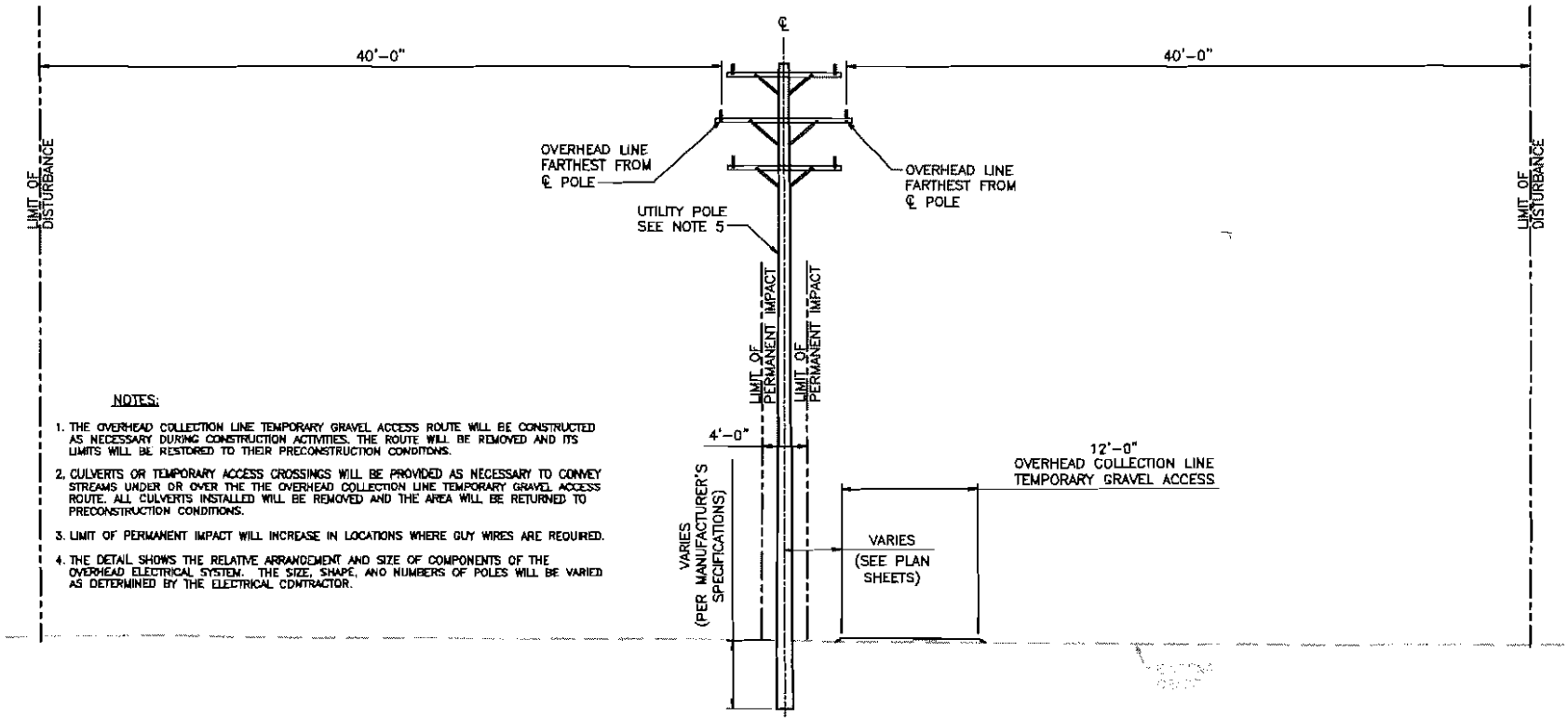

NOTES:

1. THE OVERHEAD COLLECTION LINE TEMPORARY GRAVEL ACCESS ROUTE WILL BE CONSTRUCTED AS NECESSARY DURING CONSTRUCTION ACTIVITIES. THE ROUTE WILL BE REMOVED AND ITS LIMITS WILL BE RESTORED TO THEIR PRECONSTRUCTION CONDITIONS.
2. CULVERTS OR TEMPORARY ACCESS CROSSINGS WILL BE PROVIDED AS NECESSARY TO CONVEY STREAMS UNDER OR OVER THE THE OVERHEAD COLLECTION LINE TEMPORARY GRAVEL ACCESS ROUTE. ALL CULVERTS INSTALLED WILL BE REMOVED AND THE AREA WILL BE RETURNED TO PRECONSTRUCTION CONDITIONS.
3. LIMIT OF PERMANENT IMPACT WILL INCREASE IN LOCATIONS WHERE GUY WIRES ARE REQUIRED.
4. THE DETAIL SHOWS THE RELATIVE ARRANGEMENT AND SIZE OF COMPONENTS OF THE OVERHEAD ELECTRICAL SYSTEM. THE SIZE, SHAPE, AND NUMBERS OF POLES WILL BE VARIED AS DETERMINED BY THE ELECTRICAL CONTRACTOR.

GENERAL UTILITY POLE DETAIL

NOT TO SCALE

CLIENT:

MARBLE RIVER, LLC

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

TYPICAL UTILITY POLE DETAIL

DATE: MARCH 2008

DETAIL 12

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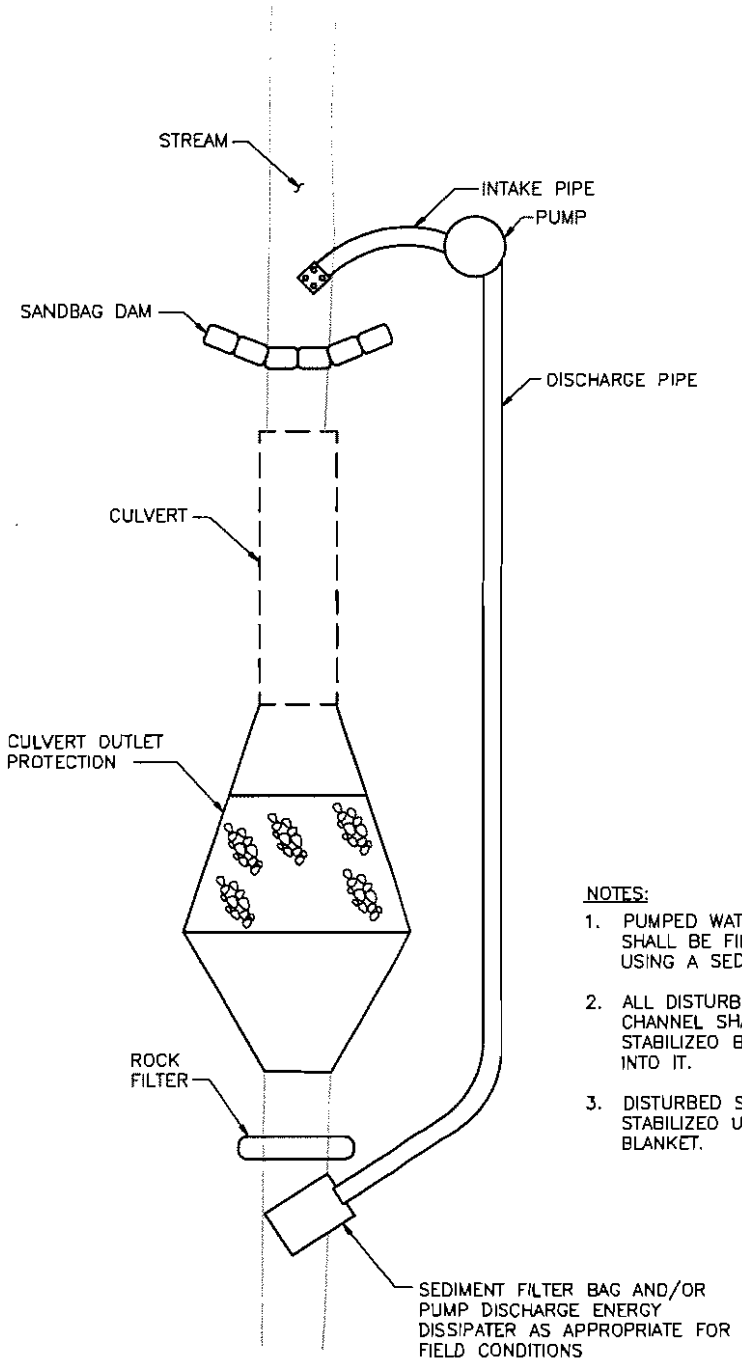

NOTES:

1. PUMPED WATER FROM EXCAVATED AREAS SHALL BE FILTERED PRIOR TO DISCHARGE USING A SEDIMENT FILTER BAG.
2. ALL DISTURBED AREAS WITHIN THE EXISTING CHANNEL SHALL BE COMPLETED AND STABILIZED BEFORE FLOW IS REDIRECTED INTO IT.
3. DISTURBED STREAM BANKS SHALL BE STABILIZED USING AN EROSION CONTROL BLANKET.

TEMPORARY COFFERDAM AND PUMP BYPASS AROUND IN-CHANNEL WORK AREAS DETAIL

NOT TO SCALE

J:\11174823.00000\CAD\WETLAND EXHIBIT REV3\ ES-14-NEW.DWG 1=1 02/08/08-1 ELB

CLIENT:

MARBLE RIVER, LLC

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

EROSION AND SEDIMENT CONTROL DETAILS

DATE: FEBRUARY 2008

ES-14

Application No. NAN-2007-00147-WDE

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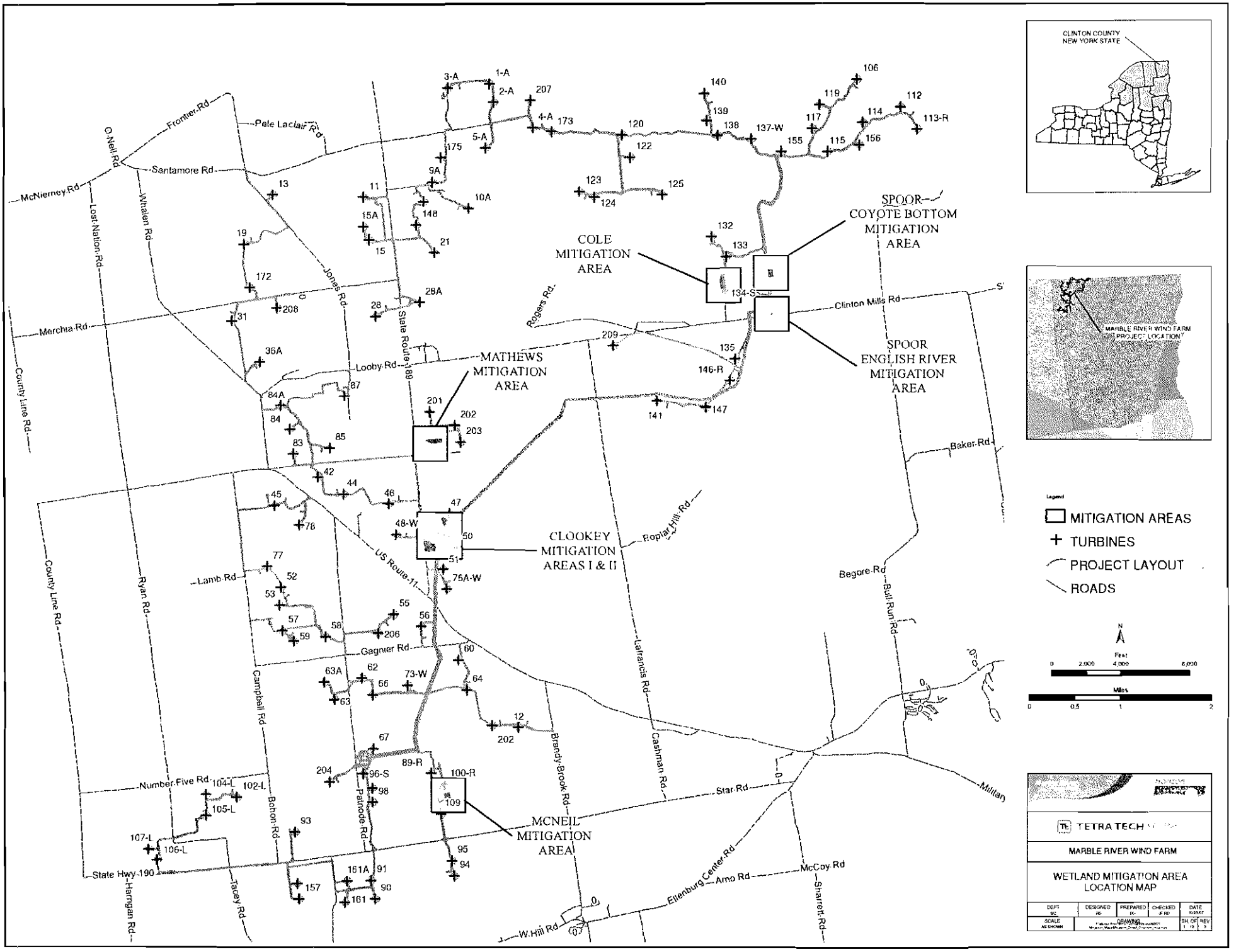
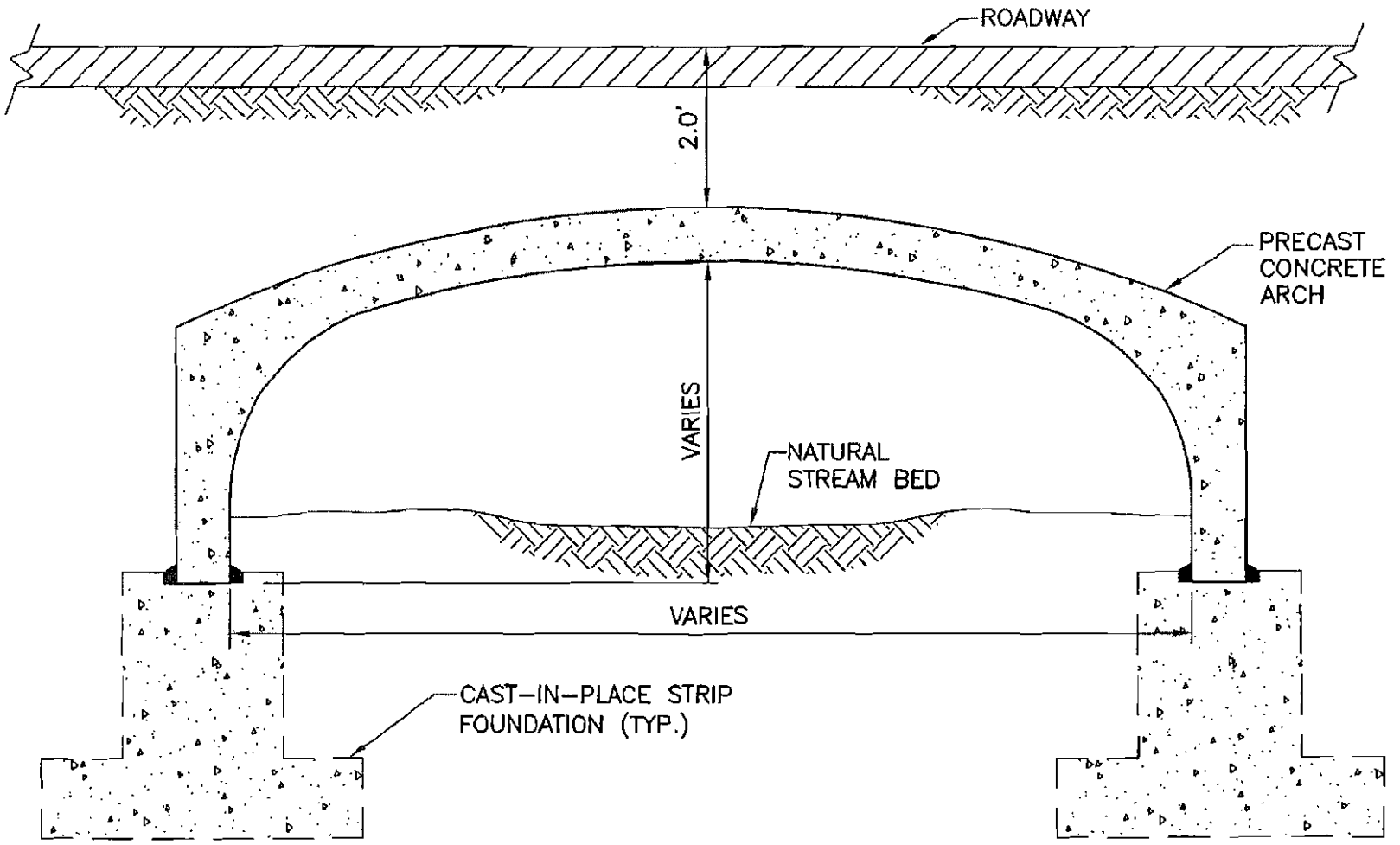
Application No. NAN-2007-00147-WDE



Sheet 6 of 69

J:\11174823.00000\CAD\PERMIT REV6\AC-19867.dwg 1:1 10/9/07 - 2 RAL

Application No. NAN-2007-00147-MDE



2' 0 2'

SCALE IN FEET

CLIENT:

MARBLE RIVER, LLC

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

PROPOSED STREAM FRIENDLY CULVERT
PRECAST CONCRETE

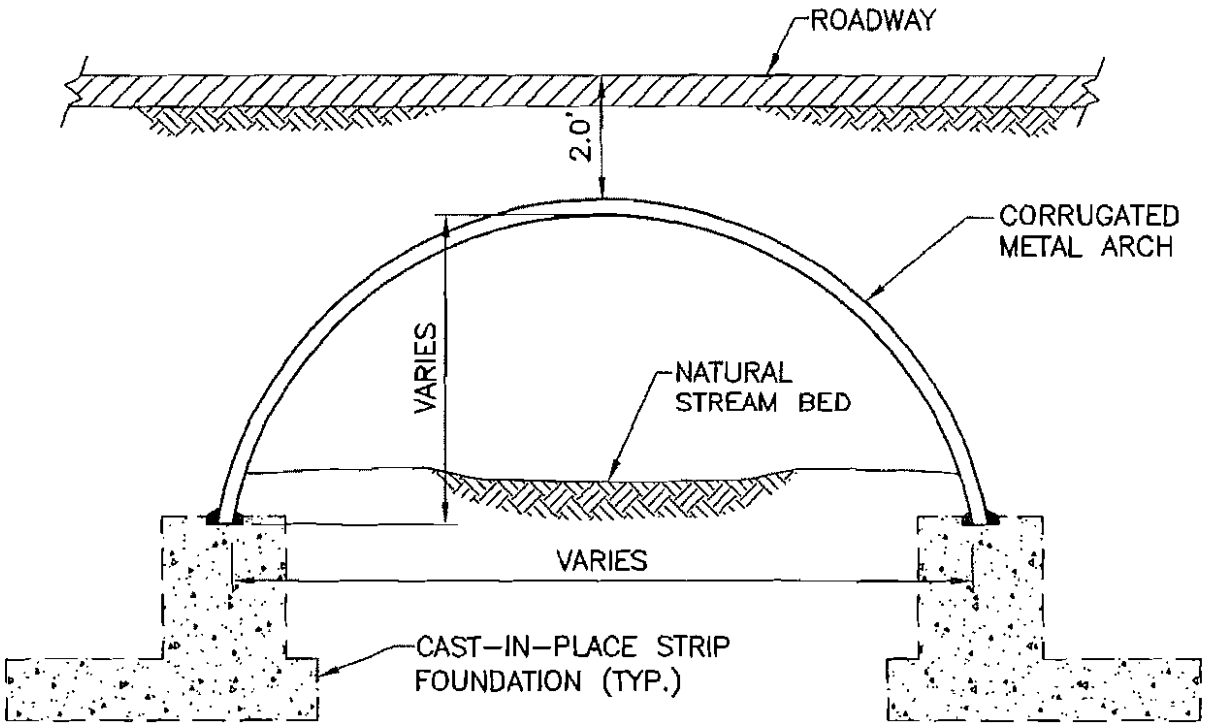
DATE: OCTOBER 2007

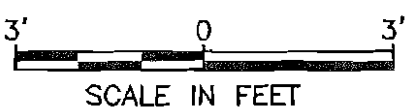
FIGURE 1

Sheet 67 of 69

J:\11174823.00000\CAD\PERMIT REV6\AC-19868.dwg 1:1 10/9/07 - 2 RAL

Application No. NAN-2007-00147-WDC





CLIENT:

MARBLE RIVER, LLC

URS Corporation

77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

PROPOSED STREAM FRIENDLY CULVERT
CORRUGATED METAL

DATE: OCTOBER 2007

FIGURE 2

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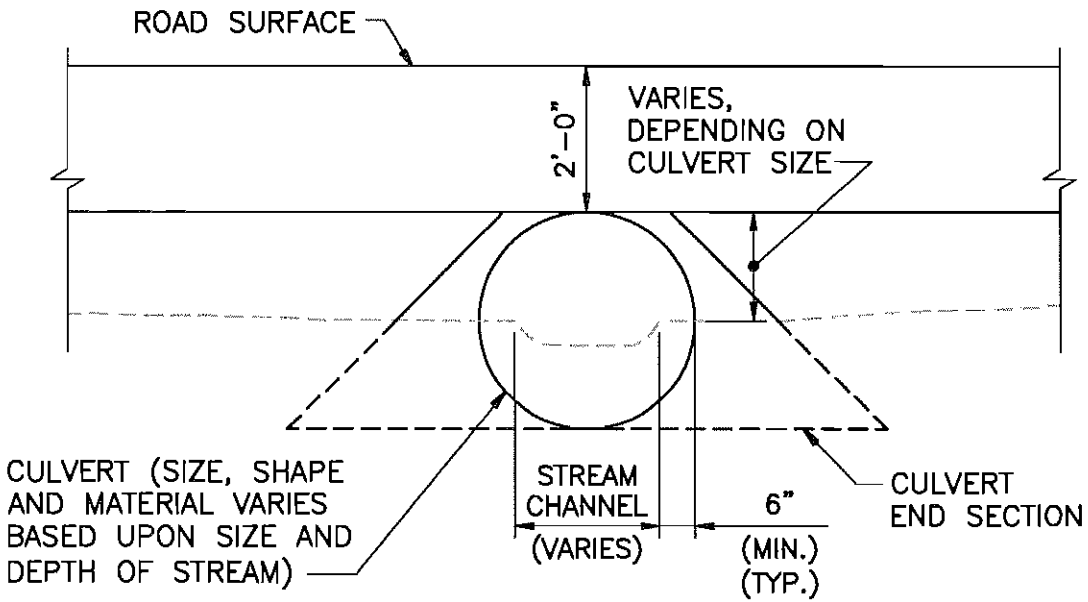
Application No. NAN-2007-00147-WDE



DEPRESSED CULVERT DETAIL

NOT TO SCALE

CLIENT:

MARBLE RIVER, LLC

URS Corporation
77 Goodell Street, Buffalo, New York 14203
(716)856-5636 - (716)856-2545 fax

MARBLE RIVER WIND FARM

DEPRESSED CULVERT DETAIL

DATE: NOV. 2007

FIGURE 1