

A-9

TRACT 16

Centerline of
Proposed Track

SBLL #1
(C RDWY., STA.
401+65.40)

Laughlin Lane

STA. 401+65.40 CL PRO. BRIDGE

APPROX. 28 FT. OUT TO OUT

TRACT 15

PST STA 400+51.70

FIGURE A-9

**PROPOSED ROUTE A
CROSSING OF LAUGHLIN
LANE**



APPROX 172 FT. OUT TO OUT (P.P.C. DECK BEAMS OR STEEL GIRDERS)

30' +/- 45' +/-

C TRACK

28' MIN. VERT. CUR.

ORIGINAL EL. = 593.6

DESIGN SUBG EL. = 570.3

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

600

580

560

600

580

560

401
+
65.40

401
+
65.40

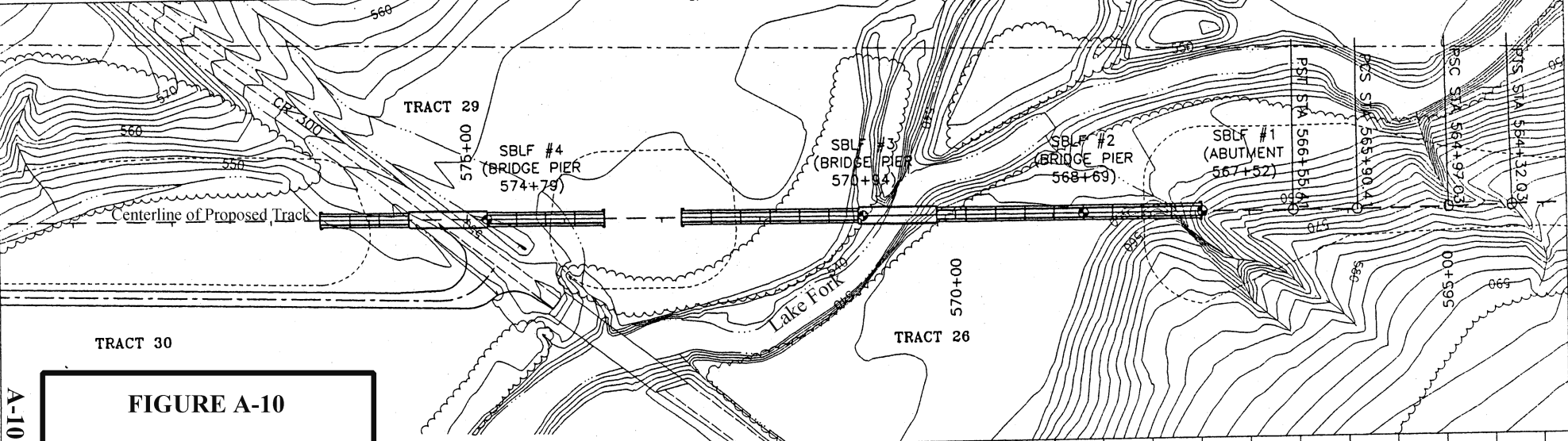
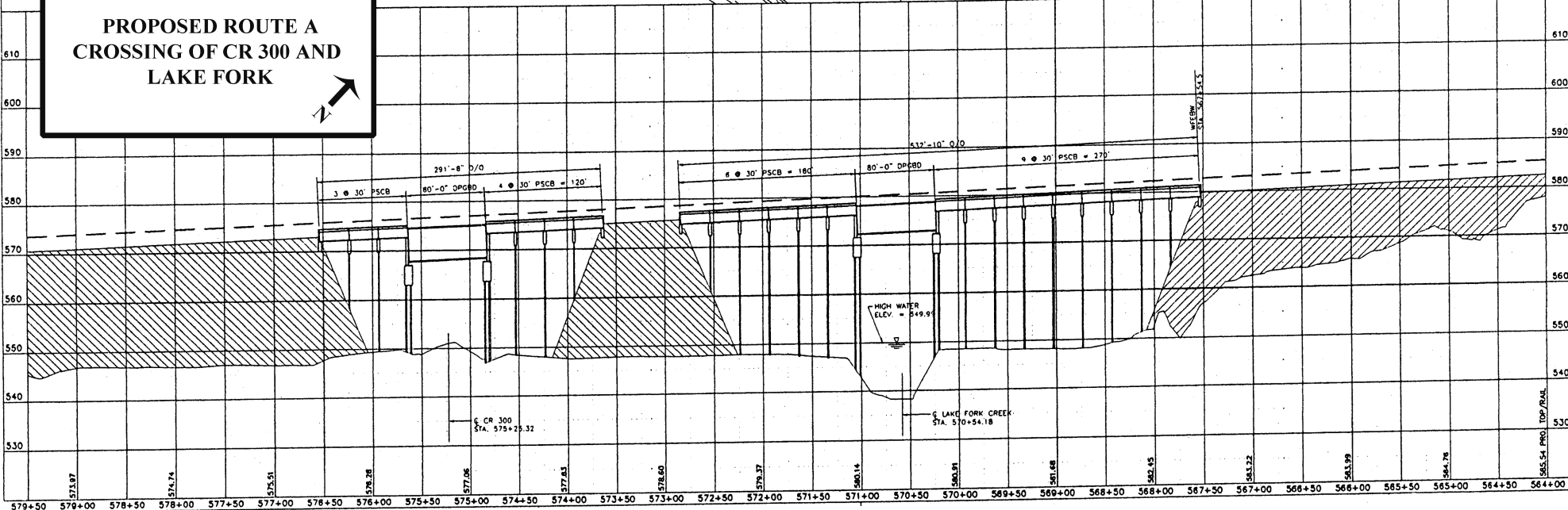


FIGURE A-10

**PROPOSED ROUTE A
CROSSING OF CR 300 AND
LAKE FORK**



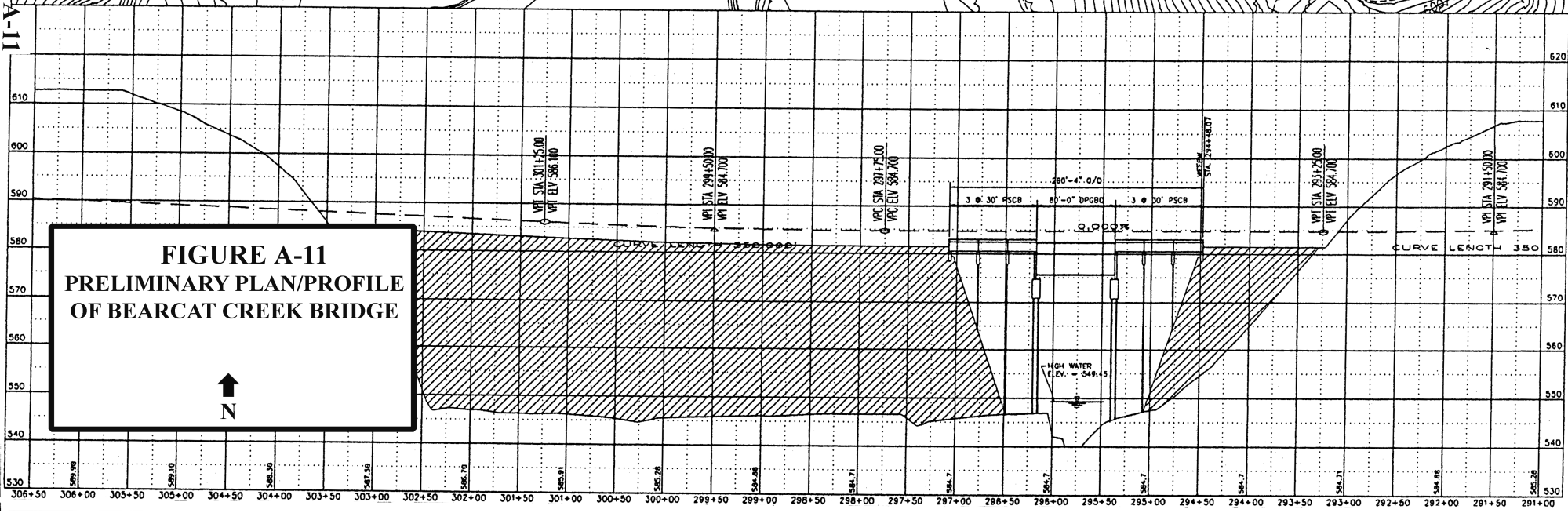
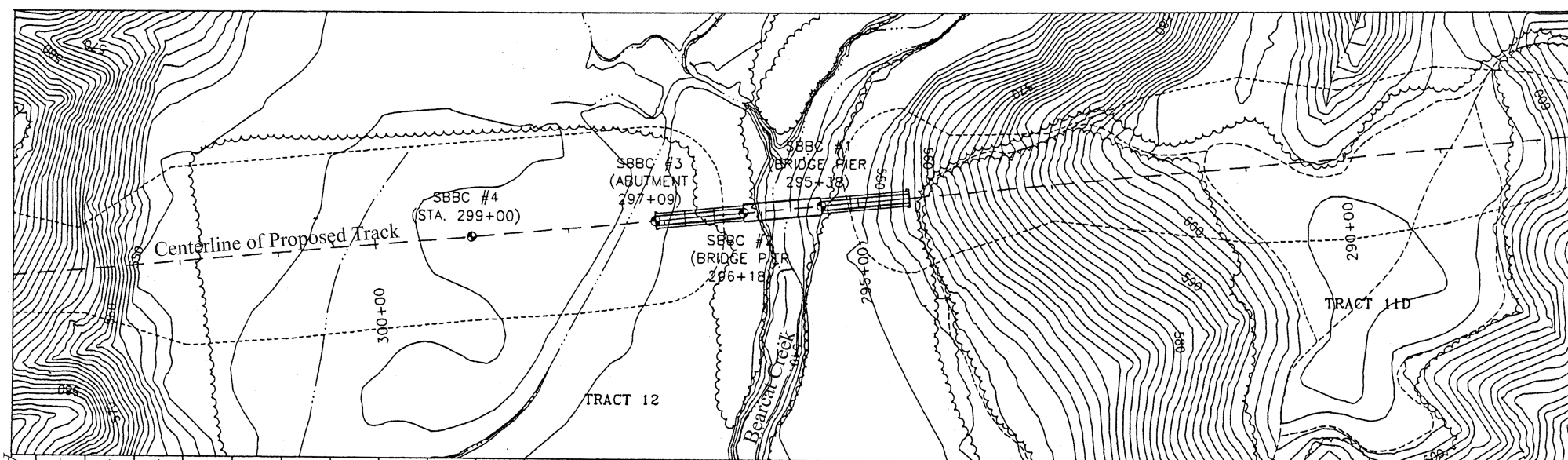


FIGURE A-11
PRELIMINARY PLAN/PROFILE
OF BEARCAT CREEK BRIDGE

N

A-12

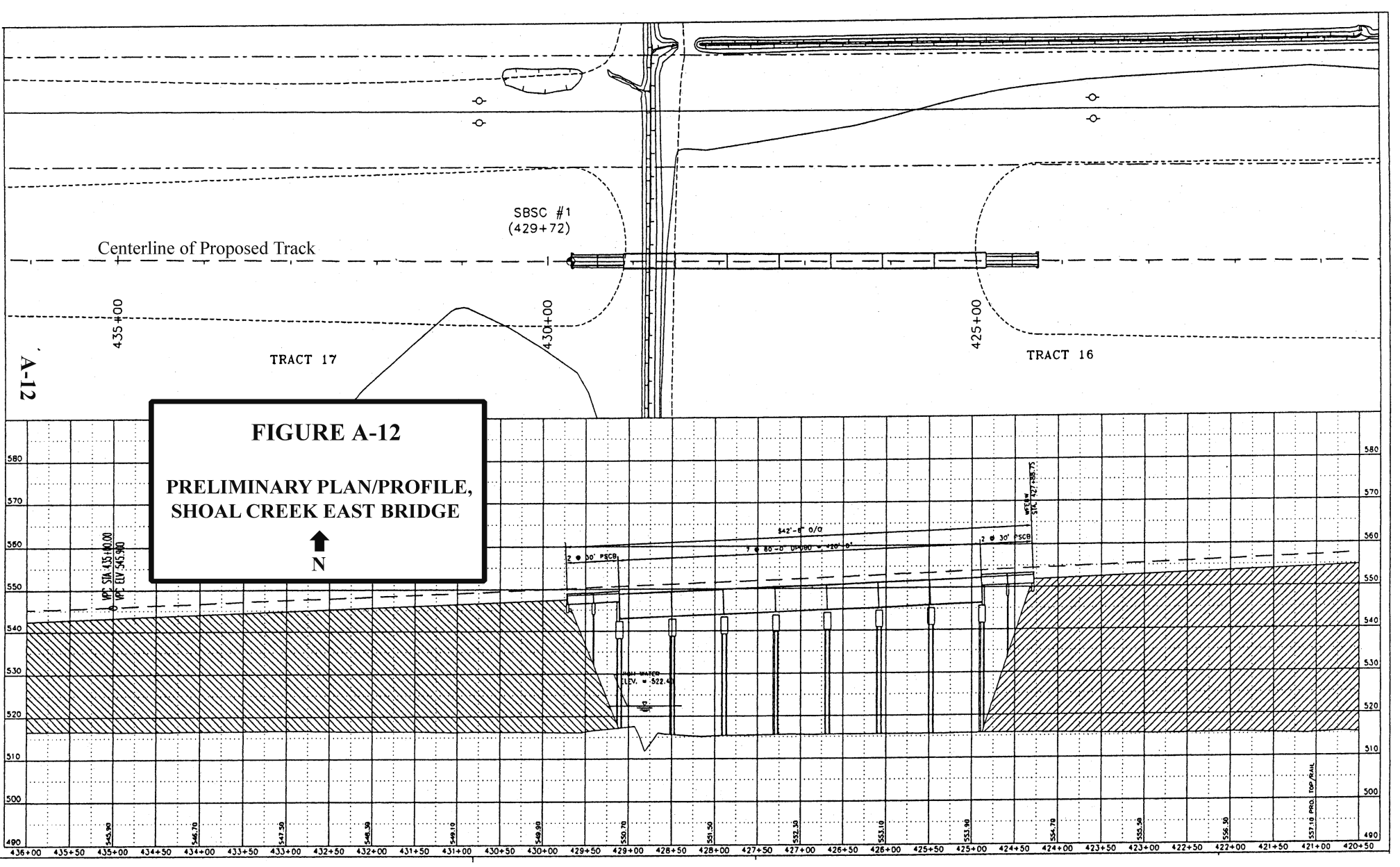
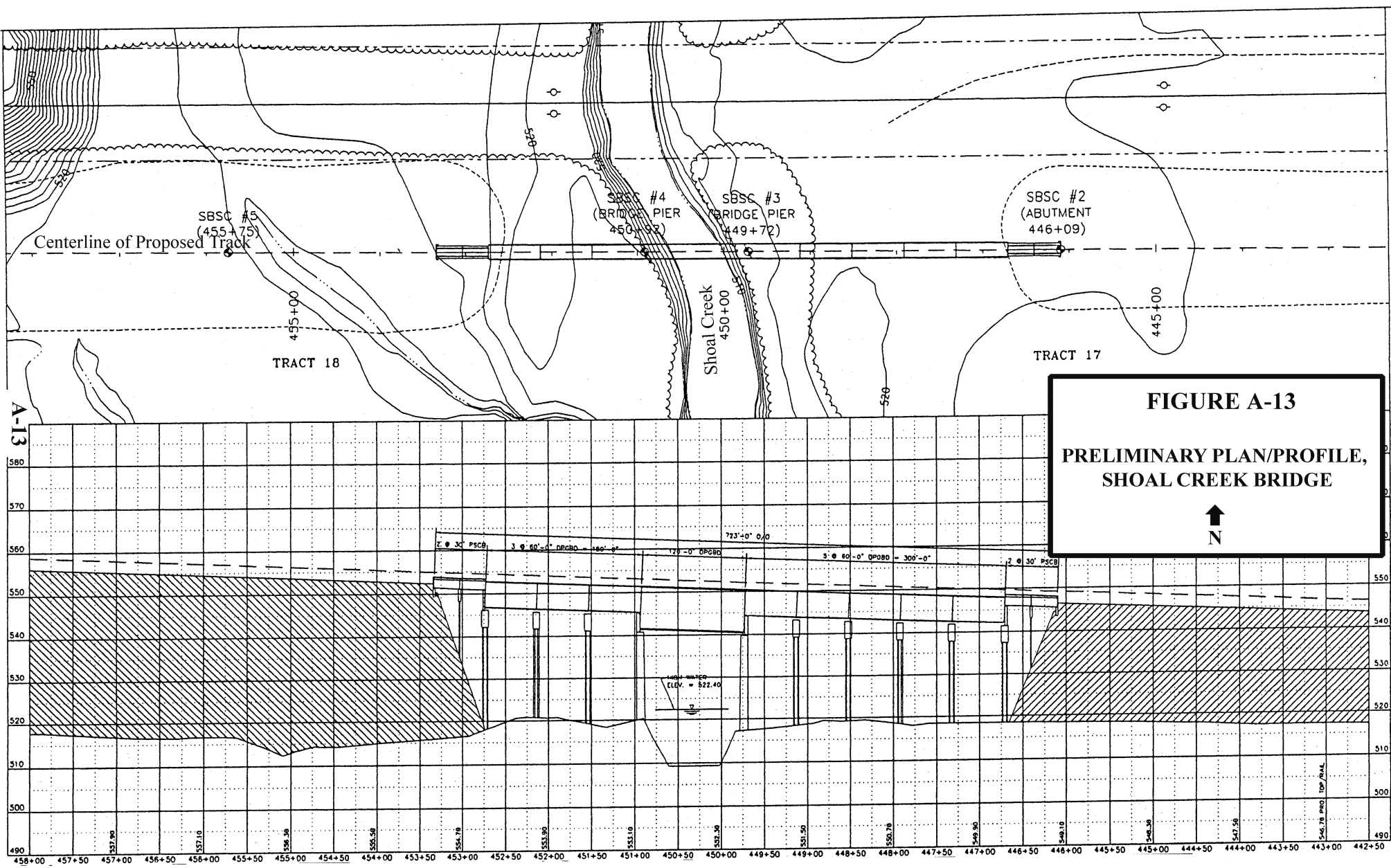


FIGURE A-12
PRELIMINARY PLAN/PROFILE,
SHOAL CREEK EAST BRIDGE



NOTE: DIAGRAM IS SUBJECT TO CHANGE.
THIS IS A PRELIMINARY DESIGN BASED
ON PRELIMINARY CALCULATIONS FOR
SIZING COMPONENTS. THE CONFIGURATIONS,
SIZES AND QUANTITIES OF ANY AND ALL
COMPONENTS ARE SUBJECT TO CHANGE.

PRO. 8' WIDE x 7.5' HIGH x 138 L.F. CONC. BOX

Centerline of Proposed Track

PRO. CONCRETE WING WALLS WITH APRON

PRO. ADJUST CONTOURS TO FACILITATE PROPER DRAINAGE

PLAN SCALE: 1"=50'

FIGURE A-14

**TYPICAL PLAN/CROSS SECTION
VIEW OF CONCRETE BOX CULVERT**



PRO. CL COMMON LEAD TRACK

PRO. 11' SERVICE ROAD

PRO. SUBBALLAST

600

600

580

580

PRO. DITCHING

PRO. OUTLET ELEV. 573.70

VARIES*

PRO. 8' WIDE x 7.5' HIGH x 138 L.F. CONC. BOX

72.31, 581.40
FL 72.31, 572.50

88.33, 572.50

PRO. INLET ELEV. 572.50

560

STA. 253+39 ORIGINAL EL = 576.2

STA. 253+10 ORIGINAL EL = 574.7

DESIGN SUBB EL = 605.65

* VARIES BASED ON AMOUNT OF COVER
OVER TOP OF CONCRETE BOX CULVERT

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

FIGURE A-15

**TYPICAL PLAN/CROSS SECTION
VIEW OF STEEL PIPE CULVERT**



NOTE: DIAGRAM IS SUBJECT TO CHANGE.
THIS IS A PRELIMINARY DESIGN BASED
ON PRELIMINARY CALCULATIONS FOR
SIZING COMPONENTS. THE CONFIGURATIONS,
SIZES AND QUANTITIES OF ANY AND ALL
COMPONENTS ARE SUBJECT TO CHANGE.

PRO. RIPRAP

PRO. 96" DIA. x 186 L.F. CSP

Centerline of Proposed Track

PIPE DIA.

PIPE DIA.

2 x DIA.

PLAN SCALE: 1"=50'

Centerline of
Proposed Track

PRO. 11' SERVICE ROAD

PRO. SUBBALLAST

PRO. SUBGRADE

18" RIPRAP

PRO. 96" DIA. x 186 L.F. CSP

ORIGINAL EL = 512.2
DESIGN SUBB EL = 548.58

PIPE DIA.

2 x PIPE DIA.

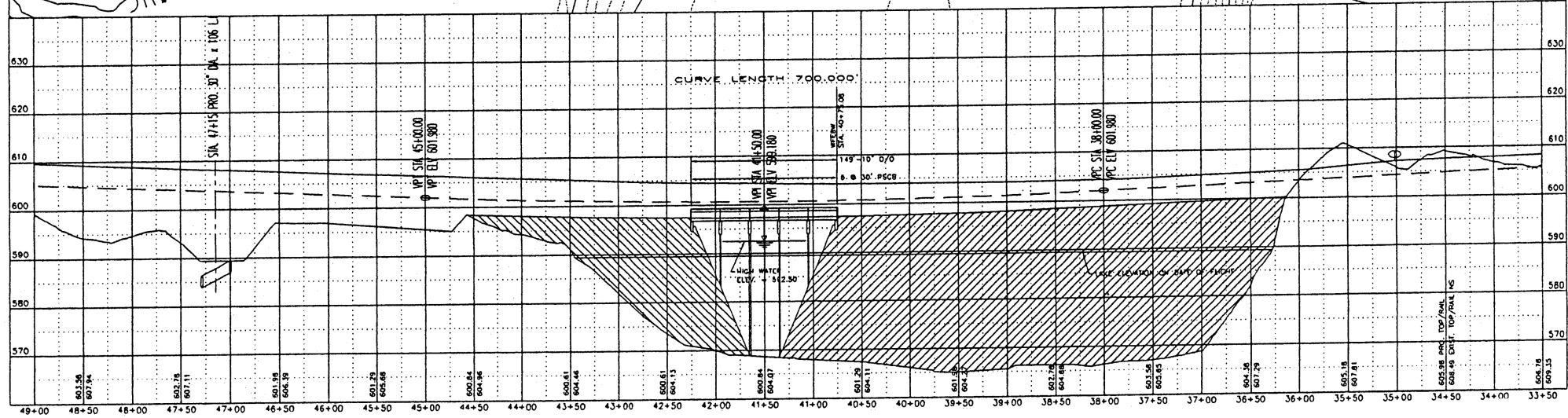
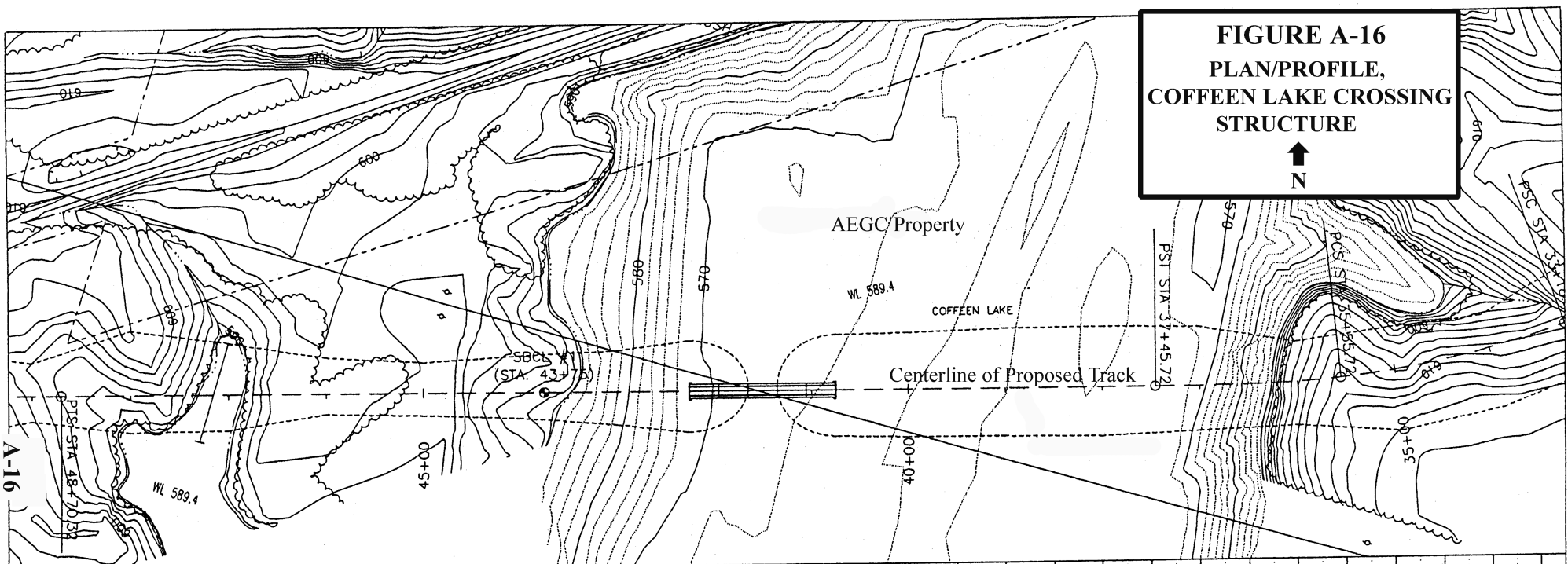
PRO. OUTLET ELEV. 511.80

PRO. INLET ELEV. 511.86

EXIST. SURFACE

A-15

FIGURE A-16
PLAN/PROFILE,
COFFEE LAKE CROSSING
STRUCTURE



APPENDIX B

AGENCY CONSULTATION LETTERS



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Marion Illinois Suboffice (ES)

8588 Route 148

Marion, IL 62959

(618) 997-3344

March 29, 2004

Ms. Jo Carole Dawkins
Dawkins Environmental Consulting
P. O. Box 845
Springville, Alabama 35146

Dear Ms. Dawkins:

This is in reference to a March 12, 2004, letter from the Surface Transportation Board requesting comments from the Fish and Wildlife Service (Service) pertaining to the proposed construction of a new 13-mile rail line in Montgomery County, Illinois, by Ameren Energy Generating Company (AEGC). The proposed line would connect AEGC's Coffen Power Plant with existing rail lines of the Burlington Northern, Santa Fe Railway, and Union Pacific Railroad. These comments are provided under the authority of and in accordance with the provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.); and the Endangered Species Act of 1973, as amended.

To facilitate compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, Federal agencies are required to obtain from the Service information concerning any species, listed or proposed to be listed, which may be present in the area of a proposed action. Therefore, we are furnishing you the following list of species which have ranges that include the project area.

<u>Classification</u>	<u>Common Name (Scientific Name)</u>	<u>Habitat</u>
Endangered	Indiana bat (<i>Myotis sodalis</i>)	Caves, mines; small stream corridors with well developed riparian woods; upland and bottomland forest

There is no designated critical habitat in the project area at this time.

The endangered Indiana bat is listed as occurring in several Illinois counties. Indiana bats

migrate seasonally between winter hibernacula and summer roosting habitats. Winter hibernacula include caves and abandoned mines. Females emerge from hibernation in late March or early April to migrate to summer roosts. Females form nursery colonies under the loose bark of trees (dead or alive) and/or cavities, where each female gives birth to a single young in June or early July. A maternity colony may include from one to 100 individuals. A single colony may utilize a number of roost trees during the summer, typically a primary roost tree and several alternates. Some males remain in the area near the winter hibernacula during the summer months, but others disperse throughout the range of the species and roost individually or in small numbers in the same types of trees as females. The species or size of trees does not appear to influence whether Indiana bats utilize a tree for roosting provided the appropriate bark structure is present. However, the use of a particular tree does appear to be influenced by weather conditions, such as temperature and precipitation.

During the summer, the Indiana bat frequents the corridors of small streams with well-developed riparian woods, as well as mature lowland and upland forests. It forages for insects along stream corridors, within the canopy of floodplain and upland forests, over clearings with early successional vegetation (old fields), along the borders of crop lands, along wooded fence rows, over farm ponds and in pastures. It has been shown that the foraging range for the bats varies by season, age, and sex and ranges up to 81 acres (33 ha). To avoid impacting this species, tree clearing activities should not occur during the period of April 1 to September 30. If it is necessary to clear trees during this time frame, mist net surveys may be necessary to determine if Indiana bats are present.

According to the National Wetlands Inventory (NWI) maps several forested wetlands and streams may be impacted by the proposed rail line. The U.S. Army Corps of Engineers should be contacted for guidance and an application for a Clean Water Act, Section 404 permit. Efforts should be made to avoid and minimize impacts to wetlands, streams, forests and other wildlife resources.

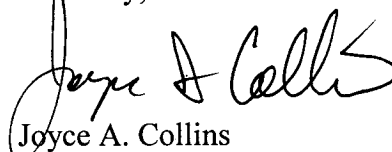
These comments provide technical assistance only and do not constitute the report of the Secretary of the Interior on the project pursuant to Section 2(b) of the Fish and Wildlife Coordination Act, do not fulfill the requirements under Section 7 of the Endangered Species Act, nor do they represent the review comments of the U.S. Department of the Interior on any forthcoming environmental statement. The Service will make final comments on the proposed construction in regard to threatened and endangered species upon our review of the Environmental Assessment or any other environmental document that may be prepared.

Ms. Jo Carole Dawkins

3

Thank you for the opportunity to comment on the proposed rail line. Please contact Mike Thomas of my staff at (618) 997-3344, ext. 345, should you have any questions.

Sincerely,



Joyce A. Collins
Assistant Field Supervisor

cc: IDNR (Davis)
STB (Navecky)



Natural Resources Conservation Service
2118 West Park Court
Champaign, IL 61821
Phone: 217/353-6600
Fax: 217/353-6676

April 1, 2004

Ms. Victoria Rutson, Chief
Section of Environmental Analysis
Surface Transportation Board
Washington, DC 20423

RE: Surface Transportation Board (STB) Finance
Docket No. 34435, Ameren Energy
Generating Company – Construction and Operation in Bond and
Montgomery counties, Illinois

Dear Ms. Rutson:

We have reviewed the proposed project as requested.

Conversion of important farmland, possible impacts on archaeological and historical sites, and wetlands are resources that may be affected by the proposed project.

Information provided in your letter and sketched map dated March 12, 2004 give a general location for the corridor rail access for both Routes A and B. In order for us to complete a detailed analysis of the proposed project, we need a project summary sheet explaining the project, a detailed soil mapping unit sheet from the county's soil survey delineating the corridor sites, and the total acres to be converted for each alternative.

This information packet should be mailed to: Mr. James B. Johnson
USDA, Natural Resources Conservation Service
2118 West Park Court
Champaign, Illinois 61821
217-353-6641

If you have any questions, please contact Mr. Johnson at the above address or telephone number.

Sincerely,

WILLIAM J. GRADLE
State Conservationist

cc:

[REDACTED], Environmental Consulting, PO Box 845, Springville, AL 35146
Steve Mozley, ASTC, NRCS, PO Box 19281, State Fairgrounds, Springfield, IL 62794-9281
Daniel Mueller, DC, NRCS, 1111 E Harris Avenue, Greenville, IL 62246
Joseph C. Liddell, DC, NRCS, 1621 Vandalia Rd, Suite D, Hillsboro, IL 62049
Robert L. McLeese, SSS, NRCS, 2118 West Park Court, Champaign, IL 61821

JJohnson.ltr rutson

The Natural Resources Conservation Service provides leadership in a partnership effort to help people conserve, maintain, and improve our natural resources and environment.

An Equal Opportunity Provider and Employer

B-4



Natural Resources Conservation Service
2118 West Park Court
Champaign, IL 61821
Phone: 217/353-6600
Fax: 217/353-6676

ATTACHMENT 3

September 22, 2004

Sandra L. Brown
Troutman Sanders LLP
401 9th Street N.W., Suite 100
Washington, DC 2004-2134

Re: Surface Transportation Board (STB) Finance Docket No. 34435, Ameren Energy
Generating Company Construction and Operation Between Coffeen and Walshville,
Illinois

Dear Ms. Brown:

We have reviewed the information you provided regarding the rail line construction,
approximately thirteen (13) miles in length, between Coffeen and Walshville, Illinois.

The preferred route (Route A) of the proposed line is located totally within Montgomery
County, Illinois, runs through several prime farmland soil map units, and would convert
approximately 178 acres of agricultural land to a non-agricultural land use. Route B of
the proposed line is located in Bond and Montgomery Counties, Illinois, runs through
several prime farmland soil map units, and would convert approximately 53 acres of
agricultural land to a non-agricultural land use.

The completion of the U.S. Department of Agriculture (USDA) Natural Resources
Conservation Service (NRCS) Form AD-1006 Farmland Conversion Impact Rating is
required whenever any project receiving Federal Funds will convert agricultural land to a
non-agricultural land use.

Enclosed for your use is Form AD-1006. The agency receiving the federal funds should
complete Parts I and III. NRCS will complete Parts II, IV and V before forwarding the
form to the Illinois Department of Agriculture (IDA) IDA. Two copies of the completed
form will be returned to you. One copy must be included in the project's Environmental
Assessment (EA); the other is for the project's file.

Selection of either route A or B should have no adverse impact on the area's agricultural land.

Sincerely,

A handwritten signature in cursive script, reading "Nancy J. Phalen".

ACTING FOR

WILLIAM J. GRADLE

State Conservationist

TROUTMAN SANDERS LLP

ATTORNEYS AT LAW
A LIMITED LIABILITY PARTNERSHIP401 9TH STREET, N.W. • SUITE 1000
WASHINGTON, D.C. 20004-2134
www.troutmansanders.com
TELEPHONE: 202-274-2950Sandra L. Brown
sandra.brown@troutmansanders.comDirect Dial: 202-274-2959
Fax: 202-654-5603

October 1, 2004

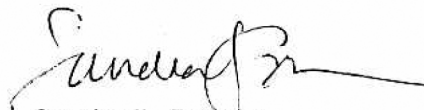
Mr. William J. Gradle
USDA, Natural Resources Conservation Service
2118 West Park Court
Champaign, Illinois 61821
(217) 353-6600Re: STB F.D. No. 34435, Ameren Energy Generating Co. - Construction and
Operation - Between Coffeen and Walshville, Illinois

Dear Mr. Gradle:

The following letter is to confirm that Coffeen and Western Railroad Co. ("CWRC"), a subsidiary of Ameren Energy Generating Co., will not be completing the U.S. Department of Agriculture Natural Resources Conversation Service Form AD-1006 Farmland Conversion Impact Rating that was sent to us with your letter dated September 22, 2004. We discussed via telephone today with Robert L. McLeese of your office that CWRC is not receiving Federal Funds for this project, and therefore, does not need to submit Form AD-1006.

If you have any questions regarding this letter, please feel free to contact me directly at 202-274-2959.

Sincerely yours,


Sandra L. Brown

B-7



ATTACHMENT 5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

APR 12 2004

REPLY TO THE ATTENTION OF:

B-19J

Jo Carole Dawkins
Dawkins Environmental Consulting
P.O. Box 845
Springville, Alabama 35146

Re: STB Finance Docket No. 34435, *Ameren Energy Generating Company - Construction and Operation Petition*

Dear Ms. Dawkins:

In accordance with the National Environmental Policy Act (NEPA), the Council on Environmental Quality's NEPA Implementing Regulations (40 CFR 1500-1508), and Section 309 of the Clean Air Act, the U.S. Environmental Protection Agency (U.S. EPA) is responding to a scoping letter proposing the construction and operation of approximately 13 miles of new rail line in Montgomery County, Illinois.

Ameren Energy Generating Company (AEGC) is proposing to construct new rail line to connect AEGC's Coffeen Power Plant (Coffeen) with existing rail lines of the Burlington Northern and Santa Fe Railway (BNSF) and Union Pacific Railroad. Norfolk Southern Railway transports most of Coffeen's coal by way of trackage rights over a BNSF line. Proposed construction would provide AEGC with alternative rail access and increased options for transporting coal. Even though the rail line would be utilized to transport mainly coal, the line would be operated as a common carrier rail line giving other shippers the ability to request rail service. Based on the information provided, we offer the following comments.

Cumulative Impacts Analysis

A cumulative impacts analysis should include an analysis of direct and indirect impacts from past, present, and reasonably foreseeable future projects associated with the proposed project. This type of analysis aids in identifying the significance of those impacts on a particular resource and the appropriate type and level of mitigation required to offset the impacts posed by the proposed project. Impacts should be assessed regardless of who initiates the project (e.g., increased business development, road development, increased demands on infrastructure). The cumulative impacts analysis should include, but not be limited to, wetlands impacts, soil erosion, sedimentation, diminished water quality, and diminished natural resources and loss of species habitat.

B-8

Affected Environment

In order to assess potential significance of impacts to the environment from the proposed construction, the upcoming NEPA document needs to provide a detailed characterization of the surrounding environment. Since direct, indirect, and cumulative impacts to the environment should be assessed, this characterization should include a study area that is not limited to the foot print of the proposed rail line. The characterization should be descriptive and supported by visual details (e.g., legible figures, location maps, photographs) of the natural resources that could be affected directly or indirectly. This information should include, but not be limited to, the identification of all wetlands (i.e., location, types, acreage, functions, values), lakes, rivers/streams (i.e., water quality, their designated use), flood plains (i.e., acreage), watersheds, fish and wildlife, habitats, farmland, federal and state threatened and endangered species, and forest land in the proposed project area.

Environmental Impacts and Mitigation

Information concerning the affected environment will be particularly important in evaluating effects and possible mitigatory measures of proposed actions (e.g., crossing of Coffeen Lake). Details regarding the widths of proposed water crossings and how crossing will be accomplished should be identified and discussed.

Impacts of the various alternatives on water quality should address, but not be limited to, a water body's designated use and compliance with State Water Quality Standards and Clean Water Act Section 401 Water Quality Certification. The upcoming NEPA documentation should discuss whether National Pollution Discharge Elimination System (NPDES) Section 402 storm water permits are required. All public and private water supply wells should be identified and impacts to these resources discussed and evaluated.

Upcoming documentation should also identify and discuss the potential impacts to air quality from construction and operation of the proposed rail line.

The upcoming NEPA document should identify and evaluate the impacts, if any, of the proposal on low income and/or minority communities (e.g., environmental justice communities) as compared to the general population. Also, any known sites or properties listed or eligible for listing in the National Register of Historic Places that may be impacted by the proposed construction should be described and mitigatory actions outlined. We request confirmation of these findings by the Illinois State Historic Preservation Office.

Best Management Practices

Please include a discussion of best management practices that will be employed during construction covering the following topics:

- Storing and fueling of construction equipment;
- Prevention and/or control of spills (i.e., fuels, lubricants or other pollutants) from construction equipment;
- Revegetation of exposed soil following completion; and
- Bridge maintenance plans.

We appreciate the opportunity to review this proposal at such an early stage and hope this correspondence provides you with useful information. We look forward to receiving NEPA documentation this project. Should you have any questions, please do not hesitate to contact me or Kathleen Kowal of my staff at (312) 353-5206 or via e-mail at kowal.kathleen@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth A. Westlake", written in a cursive style.

Kenneth A. Westlake, Chief
Environmental Planning and Evaluation Branch

cc: Victoria Rutson, Surface Transportation Board



Illinois Department of Transportation

Office of the Secretary
2300 South Dirksen Parkway / Springfield, Illinois / 62764
Telephone 217/782-5597

April 1, 2004

Ms. Jo Carole Dawkins
Dawkins Environmental Consulting
P.O. Box 845
Springville, Alabama 35146

Dear Ms. Dawkins:

We have received a letter from Ms. Victoria Rutson of the Surface Transportation Board dated March 12, 2004 regarding STB Finance Docket No. 34435, Ameren Energy Generating Company - Construction and Operation - between Coffeen and Walshville, Illinois. We have been asked to respond to you as the Board's Section of Environmental Analysis' independent, third-party consultant.

We have obtained information about the potential environmental impact that may result from the proposed construction of a rail line between the Ameren Coffeen Power Plant and the Union Pacific/Burlington Northern Santa Fe Railroads. We conducted an environmental analysis using database information for natural and cultural resources, and we have also completed an historical review for hazardous waste.

Please note that we are providing GIS database information only. The following analysis is not a result of field studies, scientific testing or detailed wetland delineations. The Illinois Department of Natural Resources' Wetland Impact Review Tool database was checked for federal and state-listed endangered or threatened species, Illinois natural areas, nature preserves, and land and water reserves. In addition, national wetland inventory maps were reviewed to identify wetlands that may be affected by the project (see attachment). The result of this analysis indicates that both proposed Routes A and B will impact a number of acres of various types of wetlands. Although there is one record for the state-threatened river otter near proposed Route A, it was recently delisted. The database had no other records of listed species, natural areas or nature preserves within the project areas. See the attachment for other cover types (resources such as woodlands and agriculture) that would be affected.

Approximately 85 percent of the project area is at a low probability for archaeological sites. The areas around Coffeen Lake, Bearcat Creek, Shoal Creek and Lake Fork have the potential to yield significant archaeological sites, and any disturbance to these areas would require field surveys. After field studies have been completed, coordination with the Illinois State Historic Officer would be required.

Ms. Jo Carole Dawkins
Page Two
April 1, 2004

The Illinois State Geological Survey (ISGS) conducted an historical review for the proposed rail line routes. Please refer to the attached ISGS report for specific site information. Proposed Route A includes two landfill sites, one pipeline site, one EPA regulated facilities site, one hazardous waste handler site, and one LUST/UST/BOL/IEMA incident site (see attached for definitions). Route B includes one pipeline site, and Route C has one LUST/UST/BOL/IEMA incident site, two landfills (one closed), and two pipeline sites. It is recommended that further testing be conducted if grading or excavation is anticipated at any of these sites.

In addition to the above information, please note that the project would require a U.S. Army Corp of Engineers' Individual 404 Permit. Other permits may be necessary. The project should be coordinated with the Illinois Department of Agriculture and the Illinois Department of Natural Resources.

If you have any questions regarding this material, please contact Barbara Stevens, Bureau of Design and Environment, at the above address or telephone her at (217) 785-4245.

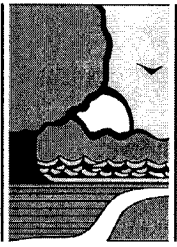
Sincerely,



Timothy W. Martin
Secretary

Enclosures

cc: Victoria Rutson - STB



Illinois Department of Natural Resources

One Natural Resources Way • Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Rod R. Blagojevich, Governor

Joel Brunsvold, Director

April 19, 2004

Ms. Jo Carole Dawkins
Dawkins Environmental Consulting
P.O. Box 845
Springville, Alabama 35146

RE: STB Finance Docket
No. 34435
Ameren Energy Generating
Coffeen and Walshville, IL.
Proj. Code 0404098

Dear Ms. Dawkins:

The Department of Natural Resources has reviewed the Illinois Natural Heritage Database for the presence of endangered or threatened species, Illinois Nature Preserves, or Illinois Natural Areas Inventory sites. There are no known occurrences of resources within the vicinity of the project area referenced above. Consultation is closed. This review is good for three years.

Please be aware that the Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence or condition of significant features in any part of Illinois. The reports only summarize the existing information regarding the natural features or locations in question known to the Division of Natural Heritage at the time of inquiry. The reports should not be regarded as final statements on the site being considered, nor should they be a substitute for field surveys required for environmental assessments.

If you have any questions, please contact me at 217-785-5500.

Sincerely,

Steve Hamer
Transportation Review Program
Division of Review and Coordination



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026

ROD R. BLAGOJEVICH, GOVERNOR

RENEE CIPRIANO, DIRECTOR

217/782-0547

April 19, 2004

Ms. Jo Carole Dawkins
Dawkins Environmental Consulting
P.O. Box 845
Springville, Alabama 35146

Re: STB Finance Docket No. 34435, Ameren Energy Generating Company –
Construction and Operation – between Coffeen and Walshville, Illinois

Dear Ms. Dawkins:

This is in response to a March 12, 2004 letter from Victoria Rutson of the Surface Transportation Board in Washington, D.C. regarding the above project.

The Illinois EPA has no objections to the project; however, a construction site stormwater NPDES permit will be required from the Division of Water Pollution Control. Please contact Alan Keller at 217/782-0610 for specific permit requirements. Also, please contact the U.S. Army Corps of Engineers for any permit requirements under Section 404 of the Clean Water Act.

Sincerely,

A handwritten signature in black ink that reads "Bernard P. Killian".

Bernard P. Killian
Deputy Director

B-14



Illinois Historic Preservation Agency

1 Old State Capitol Plaza • Springfield, Illinois 62701-1507 • Teletypewriter Only (217) 524-7128

Voice (217) 782-4836

Montgomery County
Various Locations
Two routes (A & B) in Montgomery County
STB
Construction and Operation of a New Rail Line, AEGC

PLEASE REFER TO: IHPA LOG #053031504

April 13, 2004

Jo Carole Dawkins
Jo Carole Dawkins Environmental Consulting
PO Box 845
63 Pine Street
Springville, AL 35146

Dear Madam:

Thank you for requesting comments from our office concerning the possible effects of the project referenced above on cultural resources. Our comments are required by Section 106 of the National Historic Preservation Act of 1966 (16 USC 470), as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

The project area has not been surveyed and may contain prehistoric/historic archaeological resources. Accordingly, a Phase I archaeological reconnaissance survey to locate, identify, and record all archaeological resources within the project area will be required. This decision is based upon our understanding that there has not been any large scale disturbance of the ground surface (excluding agricultural activities) such as major construction activity within the project area which would have destroyed existing cultural resources prior to your project. If the area has been heavily disturbed prior to your project, please contact our office with the appropriate written and/or photographic evidence.

The area(s) that need(s) to be surveyed include(s) all area(s) that will be developed as a result of the issuance of the federal agency permit(s) or the granting of the federal grants, funds, or loan guarantees that have prompted this review.

Enclosed you will find an attachment briefly describing Phase I surveys and a list of archaeological contracting services. THE IHPA LOG NUMBER OR A COPY OF THIS LETTER SHOULD BE PROVIDED TO THE SELECTED PROFESSIONAL ARCHAEOLOGICAL CONTRACTOR TO ENSURE THAT THE SURVEY RESULTS ARE CONNECTED TO YOUR PROJECT PAPERWORK.

If you have further questions, please contact Joseph S. Phillippe, Staff Archaeologist at 217/785-1279.

Sincerely,

Anne E. Haaker

Anne E. Haaker
Deputy State Historic
Preservation Officer

AEH

Enclosure

cc:



Illinois Historic Preservation Agency

ATTACHMENT 10

1 Old State Capitol Plaza • Springfield, Illinois 62701-1507 • Teletypewriter Only (217) 524-7128

Voice (217) 782-4836

MONTGOMERY COUNTY

PLEASE REFER TO:

IHPA LOG #053031504

Coffeen to Walshville

Two routes: A) Montgomery County, B) Bond County

ARG-CRM 1322, STB-34435

Construction and Operation of a New Rail Line, AEGC

December 2, 2004

Ms. Jo Carole Dawkins
Dawkins Environmental Consulting
Post Office Box 845
63 Pine Street
Springville, Alabama 35146

Dear Madam:

Thank you for requesting comments from our office concerning the possible effects of the referenced project on cultural resources. Our comments are required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

Our staff has reviewed the archaeological Phase I reconnaissance report performed for the above referenced project. The Phase I survey and assessment of the archaeological resources appear to be adequate.

Archaeological sites 11-My-136, 139, 140, 142, 143, 144, 145, 146, 147, 148, 149, 151, 152, 153, 154, 155, and 11-B-142 are not eligible for the National Register of Historic Places. No further archaeological investigation is necessary at the location of these sites.

Archaeological sites 11-My-135, 137, 138, 141, and 150 are potentially significant and, consequently, may be eligible for listing on the National Register of Historic Places under criterion "d". If your project will not affect the sites, then we can make a determination of "no adverse effect" for this project provided that the following conditions are met: 1) a deed covenant is placed on the parcel of property that contains these sites to ensure that no construction/development activity will occur without the consent of the State Historic Preservation Officer; and 2) The Illinois State Historic Preservation Agency shall be provided with a copy of the executed covenant with evidence of its recordation at the appropriate county office. Please call if you wish a copy of a sample covenant to review.

If your project can not avoid the potentially eligible sites, then Phase II archaeological investigations to evaluate the significance of these sites will be necessary prior to construction. If the sites are determined not to be eligible for the National Register after the Phase II work, then no further investigation will be required. If the sites are determined to have met National Register eligibility criteria after the Phase II work, then you have two (2) options. You may preserve the site location through a Deed Covenant as described above. Alternately, you may request initiation of a Memorandum of Agreement (MOA) which must be signed by IHPA and the Federal Agency. The MOA will include a Data Recovery Plan for archaeological excavation, analysis of the site, a written final report and plans for artifact curation.

A COPY OF THIS LETTER INCLUDING THE IHPA LOG NUMBER SHOULD BE PROVIDED TO THE PROFESSIONAL ARCHAEOLOGICAL CONTRACTOR WHOSE SERVICES ARE OBTAINED TO CONDUCT THE PHASE II INVESTIGATIONS TO ENSURE THAT THEIR REPORT IS CONNECTED WITH YOUR PROJECT PAPERWORK.

If you have any questions, please contact Joseph S. Phillippe, Chief Archaeologist at 217/785-1279.

Sincerely,

Anne E. Haaker

Anne E. Haaker
Deputy State Historic
Preservation Officer

AEH

cc: Michael McNerney, ARG

APPENDIX C
BIOLOGICAL RESOURCES

Table C-1 Observed Plants in the Proposed Rail Build-Out Study Area

Common Name	Scientific Name	CC	Indicator	Upland Forest	Bottomland Forest	Early Successional Forest	Old Field	Wetlands, Ponds, and Streams
Trees								
Ohio buckeye	<i>Aesculus glabra</i>	5	FAC+	--	U/C	--	--	U/C
Box elder	<i>Acer negundo</i>	1	FACW-	R	C	U	--	C
Silver maple	<i>Acer saccharinum</i>	1	FACW	--	U	--	--	C
Sugar maple	<i>Acer saccharum</i>	1	FACU	C	U	--	--	--
River birch	<i>Betula nigra</i>	3	FACW	--	--	--	--	U
Bitternut hickory	<i>Carya cordiformis</i>	5	FAC	R	--	--	--	--
Pignut hickory	<i>Carya glabra</i>	8	FACU	R	--	--	--	--
Mockernut hickory	<i>Carya tomentosa</i>	5	UPL	U	--	--	--	--
Sugarberry	<i>Celtis laevigata</i>	4	FACW	C	C	--	--	U
Hackberry	<i>Celtis occidentalis</i>	4	FAC-	C	C	--	--	--
Eastern redbud	<i>Cercis canadensis</i>	3	FACU	C	U	--	--	--
Hawthorn	<i>Crataegus</i> sp.	--	--	U	--	--	--	--
Persimmon	<i>Diospyros virginiana</i>	3	FAC	C	U	--	--	--
Green ash	<i>Fraxinus pennsylvanica</i>	2	FACW	--	C	--	--	C
Honey locust	<i>Gleditsia triacanthos</i>	2	FAC	U	U	--	--	--
Black walnut	<i>Juglans nigra</i>	4	FACU	C	U	--	--	--
Eastern red cedar	<i>Juniperus virginiana</i>	2	FACU	U/C	--	--	--	--
Osage orange	<i>Maclura pomifera</i>	NA	FACU	U	U	--	--	--
Sycamore	<i>Platanus occidentalis</i>	3	FACW	--	C	--	--	C
Cottonwood	<i>Populus deltoides</i>	2	FAC+	--	C	--	--	C
Wild black cherry	<i>Prunus serotina</i>	2	FACU	C	--	--	--	--
White oak	<i>Quercus alba</i>	4	FACU	C	C	--	--	--
Shingle oak	<i>Quercus imbricaria</i>	3	FAC-	C	U	--	--	--
Bur oak	<i>Quercus macrocarpa</i>	3	FAC-	--	U	--	--	--
Chinkapin oak	<i>Quercus muhlenbergii</i>	4	FACU-	C	U/R	--	--	--
Northern red oak	<i>Quercus rubra</i>	5	FACU	C	U/R	--	--	--
Black oak	<i>Quercus velutina</i>	4	UPL	U	--	--	--	--
Black locust	<i>Robinia pseudoacacia</i>	2	FACU-	U	--	--	--	--
Black willow	<i>Salix nigra</i>	2	OBL	--	--	--	--	C/U
Sassafras	<i>Sassafras albidum</i>	2	FACU	C	--	--	--	--
Basswood	<i>Tilia americana</i>	5	FACU	U	C	--	--	--
American elm	<i>Ulmus americana</i>	4	FACW-	--	U	--	--	R
Slippery elm	<i>Ulmus rubra</i>	3	FAC	C	C	U	--	--
Shrubs/Understory								
Service berry	<i>Amelanchier arborea</i>	6	FACU	U	--	--	--	--
Paw paw	<i>Asimina triloba</i>	5	FAC	U	U	--	--	--
Buttonbush	<i>Cephalanthus occidentalis</i>	3	OBL	--	--	--	--	R
Stiff dogwood	<i>Cornus foemina</i>	6	FACW-	--	--	--	--	R
Deciduous holly	<i>Ilex deciduas</i>	5	FACW	U	U	--	--	--
Bush honeysuckle	<i>Lonicera maackii</i>	NA	UPL	U/C	--	--	U	--

Table C-1 Observed Plants in the Proposed Rail Build-Out Study Area

Common Name	Scientific Name	CC	Indicator	Upland Forest	Bottomland Forest	Early Successional Forest	Old Field	Wetlands, Ponds, and Streams
Hop-hornbeam	<i>Ostrya virginiana</i>	4	FACU-	C	U/C	--	--	--
Winged (shining) sumac	<i>Rhus copallina</i>	2	UPL	--	--	U/C	C	--
Smooth sumac	<i>Rhus glabra</i>	1	UPL	--	--	U/C	C	--
Gooseberry	<i>Ribes missouriense</i>	3	UPL	C	--	--	U	--
Multiflora rose	<i>Rosa multiflora</i>	NA	FACU	C	C	C	C	--
Black raspberry	<i>Rubus occidentalis</i>	3	UPL	U	U	C	C	--
Peach-leaved willow	<i>Salix amygdaloides</i>	5	FACW	--	--	--	--	R
Sandbar willow	<i>Salix interior</i>	3	OBL	--	--	--	--	R
Elderberry	<i>Sambucus canadensis</i>	2	FACU-	U	U	U	C	--
Buckbrush (coralberry)	<i>Symphoricarpos orbiculatus</i>	1	FACU	C	--	U	U	--
Herbs/Vines								
Sweet flag	<i>Acorus calamus</i>	4	OBL	--	--	--	--	R
Water plantain	<i>Alisma sp.</i>		OBL	--	--	--	--	R
Common ragweed	<i>Ambrosia artemisiifolia</i>	0	FACU	--	--	U	C	--
Giant ragweed	<i>Ambrosia trifida</i>	0	FAC+	--	--	U	C	--
Dogbane	<i>Apocynum cannabinum</i>	5	UPL	--	--	--	C	--
Jack-in-the-pulpit	<i>Arisaema altorubens</i>	6	FACW-	U/R	--	--	--	--
Green dragon	<i>Arisaema dracontium</i>	6	FACW	R	--	--	--	--
Wild ginger	<i>Asarum canadense</i>	6	UPL	U/C	C	--	--	--
Purple milkweed	<i>Asclepias purpurescens</i>	8	UPL					
Common milkweed	<i>Asclepias syriaca</i>	0	UPL	--	--	--	C	--
Ebony spleenwort	<i>Asplenium platyneuron</i>	4	FACU	C	--	--	--	--
Northern lady fern	<i>Athyrium filix-femina</i> spp. <i>angustum</i>	8	FAC	--	--	--	--	R
Beggar-ticks	<i>Bidens sp.</i>	2	FACW	--	--	--	--	U
False nettle	<i>Boehmeria cylindrica</i>	4	OBL	--	--	--	--	C
Rattlesnake fern	<i>Botrychium virginianum</i>	4	FACU	U	--	--	--	--
Trumpet creeper	<i>Campsis radicans</i>	3	FAC	U	--	--	U/C	--
Frank's sedge	<i>Carex frankii</i>	5	OBL	--	--	--	--	R
Sedges	<i>Carex sp.</i>	--	--	C	C	--	C	C
Fescue sedge	<i>Carex festucacea</i>	6	FAC	--	--	--	--	R
Fox sedge	<i>Carex vulpinoidea</i>	4	OBL	--	--	--	--	R
Partridge pea	<i>Cassia fasciculata</i>	1	FACU-	--	--	C	C	--
Inland sea-oats	<i>Chasmanthium latifolium</i>	4	FACW	--	--	--	C	--
Enchanter's nightshade	<i>Circaea quadrisulcata</i>	3	FACU	C	--	--	--	----
Field thistle	<i>Cirsium discolor</i>	3	UPL	--	--	C	C	--
Native dayflower	<i>Commelina virginica</i>	5	FACW	--	--	--	U	--
Tall bellflower	<i>Campanula americana</i>	4	FAC	U	U	--	--	--
Honewort	<i>Cryptotaenia canadensis</i>	0	FAC	--	C	--	--	--
Nut sedge	<i>Cyperus strigosus</i>	1	FACW					
Orchard grass	<i>Dactylis glomerata</i>	NA	FACU	--	--	--	U	--

Table C-1 Observed Plants in the Proposed Rail Build-Out Study Area

Common Name	Scientific Name	CC	Indicator	Upland Forest	Bottomland Forest	Early Successional Forest	Old Field	Wetlands, Ponds, and Streams
Queen Anne's lace	<i>Daucus carota</i>	NA	UPL	--	--	C	C	--
Tick trefoil	<i>Desmodium sp.</i>	--	--	C	U	C	C	--
Deptford pink	<i>Dianthus armeria</i>	NA	UPL	--	--	--	U	--
Deer tongue	<i>Dichanthelium (Panicum) clandestinum</i>	4	FACW	--	--	--	C	U
Annual fleabane	<i>Erigeron annuus</i>	1	FAC-	--	--	--	U	--
Tall boneset	<i>Eupatorium altissimum</i>	3	FACU	--	--	U	C	--
Needle spikerush	<i>Eleocharis acicularis</i>	5	OBL	--	--	--	--	U
Blunt spikerush	<i>Eleocharis obtusa</i>	4	OBL	--	--	--	--	C
Goose grass	<i>Eleusine indica</i>	NA	FACU	--	--	--	U	--
Virginia wild-rye	<i>Elymus virginicus</i>	4	FACW-	--	--	--	C	--
Horse weed	<i>Erigeron canadensis</i>	0	FAC-	--	--	--	C	--
Mist flower	<i>Eupatorium coelestinum</i>	4	FAC+	--	--	--	U	--
White snakeroot	<i>Eupatorium rugosum</i>	2	FACU	C	U	--	--	--
White avens	<i>Geum canadense</i>	2	FAC	C	C	C	C	--
American lpecac	<i>Gillenia stipulata</i>	5	UPL	R	--	--	--	--
Beggar's lice	<i>Hackelia virginiana</i>	3	FAC-	R	--	--	--	--
Rose mallow	<i>Hibiscus lasiocarpus</i>	4	FACW+	--	--	--	--	R
Goldenseal	<i>Hydrastis canadensis</i>	8	UPL	R	--	--	--	--
St. John's wort	<i>Hypericum sp.</i>	--	--	--	--	--	U	--
Touch-me-nots (jewel weed)	<i>Impatiens capensis</i>	3	FACW	--	U	--	--	C
Soft rush	<i>Juncus effusus</i>	5	OBL	--	--	--	--	R
Inland rush	<i>Juncus interior</i>	4	FAC+	--	--	--	U/C	--
Blue lettuce	<i>Lactuca floridana</i>	3	FAC-	--	--	--	C	--
Rice cut grass	<i>Leersia oryzoides</i>	4	OBL	--	--	--	--	R
Sericea lespedeza	<i>Lespedeza cuneata</i>	NA	UPL	--	--	--	C	--
Lespedeza, koren	<i>Lespedeza stipulacea</i>	NA	FACU	U/C	--	--	C	--
Twayblade orchid	<i>Liparis liliifolia</i>	7	FACU-	R	--	--	--	--
Japanese honeysuckle	<i>Lonicera japonica</i>	NA	FACU	U	U	U	C	--
Moonseed	<i>Menispermum canadense</i>	4	FAC+	U	U	--	--	--
Monkey flower	<i>Mimulus alatus</i>	5	OBL	--	--	--	--	R
Sensitive fern	<i>Onoclea sensibilis</i>	6	FACW	--	--	--	--	R
Common wood sorrel	<i>Oxalis stricta</i>	0	FACU	C	--	--	C	--
Virginia creeper	<i>Parthenocissus quinquefolia</i>	3	FAC-	C	C	--	--	--
Fog fruit	<i>Phyla (Lippia) lanceolata</i>	3	OBL	--	--	--	--	R
Pokeweed	<i>Phytolacca americana</i>	2	FAC-	--	--	--	C	--
Common reed	<i>Phragmites australis</i>	3	FACW+	--	--	--	--	C
Lopseed	<i>Phryma leptostachya</i>	2	UPL	R	--	--	--	--
Clearweed	<i>Pilea pumila</i>	4	FACW	--	--	--	--	U/C
Mayapple	<i>Podophyllum peltatum</i>	4	FACU	C	--	--	--	--
Solomon's seal	<i>Polygonatum biflorum</i>	7	FACU	R	--	--	--	--

Table C-1 Observed Plants in the Proposed Rail Build-Out Study Area

Common Name	Scientific Name	CC	Indicator	Upland Forest	Bottomland Forest	Early Successional Forest	Old Field	Wetlands, Ponds, and Streams
Smartweed (water pepper)	<i>Polygonum hydropiperoides</i>	4	OBL	--	--	--	--	R
Pink smartweed	<i>Polygonum pensylvanicum</i>	1	FACW	--	--	--	--	U/C
Virginia knotweed	<i>Polygonum virginianum</i>	1	FAC	C	U	--	--	--
Christmas fern	<i>Polystichum acrostichoides</i>	5	UPL	U/C	--	--	--	--
Selfheal	<i>Prunella vulgaris</i>	1	FAC	U	--	--	C	--
Slender mountain mint	<i>Pycnanthemum tenuifolium</i>	4	FAC	U	--	--	C	--
Cut-leaf coneflower	<i>Rubeckia laciniata</i>	4	FACW+	--	--	--	--	U/C
Common dewberry	<i>Rubus flagellaris</i>	2	FACU-	--	--	U	C	--
Field sorrel	<i>Rumex acetosella</i>	NA	FAC	--	--	U	C	--
Arrowhead	<i>Sagittaria</i> sp.	--	OBL	--	--	--	--	U
Heart-leaved skullcap	<i>Scutellaria ovata</i>	5	FACU	R	--	--	--	--
Yellow foxtail	<i>Setaria glauca</i>	NA	FAC	--	--	--	C	--
Compass plant	<i>Silphium laciniatum</i>	6	FACU-	--	--	--	R	--
Prairie dock	<i>Silphium terebinthinaceum</i>	5	FAC-	--	--	--	R	--
False Solomon's seal	<i>Smilacina racemosa</i>	4	FACU	U	--	--	--	--
Catbrier	<i>Smilax</i> sp.	--	--	C	C	--	--	--
Johnson grass	<i>Sorghum halepense</i>	NA	FACU	--	--	--	C	--
Horse Nettle	<i>Solanum carolinense</i>	1	FACU-	--	--	--	C	--
Tall goldenrod	<i>Solidago altissima</i>	1	FACU	--	--	--	C	--
Grass-leaved goldenrod	<i>Solidago graminifolia</i>	3	FACW-	--	--	U/C	C	--
Elm-leaved goldenrod	<i>Solidago ulmifolia</i>	4	UPL	--	--	U/C	C	--
Bladdernut	<i>Staphylea trifolia</i>	5	FAC	U	U	--	--	--
Wood sage	<i>Teucrium canadense</i>	2	FACW-					
Poison ivy	<i>Toxicodendron (Rhus) radicans</i>	1	FAC+	C	C	C	C	--
Common spiderwort	<i>Tradescantia ohiensis</i>	4	FACU+	--	--	--	R	--
Zig-zag spiderwort	<i>Tradescantia subaspera</i>	10	UPL	R	--	--	--	--
Red clover	<i>Trifolium pratense</i>	NA	FACU+	--	--	--	C	--
White clover	<i>Trifolium repens</i>	NA	FACU+	--	--	--	C	--
Narrow leaf cattail	<i>Typha angustifolia</i>	2	OBL	--	--	--	--	R
Common cattail	<i>Typha latifolia</i>	1	OBL	--	--	--	--	U
Stinging nettle	<i>Urtica dioica</i>	3	FAC+	--	C	--	--	C
Bellwort	<i>Uvularia grandiflora</i>	6	UPL	R	--	--	--	--
Blue vervain	<i>Verbena hastata</i>	4	FACW+	--	--	--	U	--
Yellow ironweed	<i>Verbesina alternifolia</i>	4	FACW	--	U	--	--	R
Missouri ironweed	<i>Vernonia missurica</i>	4	FAC+	--	--	--	U/C	--
Cliff fern	<i>Woodsia obtusa</i>	5	UPL	C	U	--	--	--

NA = CC not available.

C = common; R = rare; U = uncommon OBL = Obligate

CC = coefficient of conservatism.

Wetland -- Occurs with an estimated 99 percent probability in wetlands. FACW = Facultative Wetland -- Estimated 67 to 99 percent probability of occurrence in wetlands.

FAC = Facultative -- Equally likely to occur in wetlands and nonwetlands (34 to 66 percent probability).

FACU = Facultative Upland -- 67 to 99 percent probability in nonwetlands, 1 to 33 percent in wetlands.

UPL = Obligate Upland -- Greater than 99 percent nonwetlands in this region, may occur in wetlands in other regions.

NI = No Indicator -- Insufficient information available to determine an indicator status. Positive or negative signs are used to more specifically define frequency of occurrence in wetlands. A positive sign (+) indicates a frequency toward the higher end of a category (more frequently found in wetlands), and a negative sign (-) indicates a frequency toward the lower end of a category (less frequently found in wetlands).

Table C-2 Mammal Species Potentially Occurring within the Proposed Rail Build-Out Study Area

Common Name	Scientific Name	Habitat*	Abundance†
Marsupials	Didelphimorphia		
Virginia opossum	<i>Didelphis virginiana</i>	F, W, G	C
Insectivores	Insectivora		
southeastern shrew	<i>Sorex longirostris</i>	F, G (mostly)	C
Northern short-tailed shrew	<i>Blarina brevicauda</i>	F, G, W	C
Least shrew	<i>Cryptotis parva</i>	G	*
Eastern mole	<i>Scalopus aquaticus</i>	F, G	C
Bats	Chiroptera		
Little brown bat	<i>Myotis lucifugus</i>	F, caves, buildings	C
Indiana bat	<i>Myotis sodalis</i>	F, caves	R
Eastern pipistrelle	<i>Pipistrellus subflavus</i>	F, caves	C
Big brown bat	<i>Eptesicus fuscus</i>	F, caves, buildings	C
Red bat	<i>Lasiurus borealis</i>	F	C
Rabbits	Lagomorpha		
Eastern cottontail	<i>Sylvilagus floridanus</i>	G, F (edges)	C
Rodents	Rodentia		
Eastern chipmunk	<i>Tamias striatus</i>	F	C
Woodchuck	<i>Marmota monax</i>	G, F (edges)	C
Gray squirrel	<i>Sciurus carolinensis</i>	F, urban	U,C (urban)
Fox squirrel	<i>Sciurus niger</i>	F	C
Southern flying squirrel	<i>Glaucomys volans</i>	F	C
Beaver	<i>Castor canadensis</i>	W	C
Deer mouse	<i>Peromyscus maniculatus</i>	G	C
White-footed mouse	<i>Peromyscus leucopus</i>	F, G, W (mostly F)	C
Meadow vole	<i>Microtus pennsylvanicus</i>	G	C
Prairie vole	<i>Microtus ochrogaster</i>	G	C
Muskrat	<i>Ondatra zibethicus</i>	W	C
House mouse	<i>Mus musculus</i>	Mostly buildings	C
Carnivores	Carnivora		
Coyote	<i>Canis latrans</i>	F, G, W	C
Red fox	<i>Vulpes vulpes</i>	G, F, W	C
Raccoon	<i>Procyon lotor</i>	F, W, G	C
Long-tailed weasel	<i>Mustela frenata</i>	F, W, G	C
Mink	<i>Mustela vison</i>	W, G, F	C
Striped skunk	<i>Mephitis mephitis</i>	F, G, W	C
River otter	<i>Lutra canadensis</i>	W	*
Bobcat	<i>Lynx rufus</i>	F	*
Even-toed ungulates	Artiodactyla		
White-tailed deer	<i>Odocoileus virginianus</i>	F, W, G	C

*Habitats: W = wetland, G = grassland, F = forest

† Abundance: C = common, U = uncommon, R = rare, * = status uncertain

Source: Modified from IDNR, 2000, Volume 3, Living Resources

Table C-3 Common Amphibians and Reptiles Likely to Occur within the Proposed Rail Build-Out Study Area

Common Name	Scientific Name	Habitat*	Abundance
Amphibians			
American toad	<i>Bufo americanus</i>	U	C
Fowler's toad	<i>Bufo fowleri</i>	F, W, P	C
Cricket frog	<i>Acris crepitans</i>	W, L, R	C
Gray treefrog complex	<i>Hyla verisicolor-chrysoscelis</i>	F, W	C
Spring peeper	<i>Pseudacris crucifer</i>	F, W	C
Western chorus frog	<i>Pseudacris triseriata</i>	U	C
Bullfrog	<i>Rana catesbeiana</i>	W, L, R	C
Southern leopard frog	<i>Rana sphenoccephala</i>	F, W, L, R	C
Reptiles			
Snapping turtle	<i>Chelydra serpentina</i>	W, L, R	C
Painted turtle	<i>Chrysemys picta</i>	W, L, R	C
False map turtle	<i>Graptemys pseudogeographica</i>	L, R	C
Eastern box turtle	<i>Terrapene carolina</i>	F	C
Ornate box turtle	<i>Terrapene ornata</i>	P	U/R
Red-eared slider	<i>Trachemys scripta</i>	W, L, R	C
Spiny softshell turtle	<i>Apalone spinifera</i>	W, L, R	C
Fence lizard	<i>Sceloporus undulatus</i>	F	C
Five-lined skink	<i>Eumeces fasciatus</i>	F	C
Broadhead skink	<i>Eumeces laticeps</i>	F	C
Black rat snake	<i>Elaphe obsoleta</i>	F, W, P	C
Prairie kingsnake	<i>Lampropeltis calligaster</i>	F, P	C
Northern water snake	<i>Nerodia sipedon</i>	W, R, L	C
Eastern garter snake	<i>Thamnophis sirtalis</i>	U	C

* F=forest, W=wetland, P=prairie and savanna, L=lakes, ponds, impoundments, R=rivers & creeks,

† C=cultural, U=ubiquitous (all habitats)

C=common, U=uncommon, R=rare, ?=status uncertain

Source: Modified from IDNR, 2000, Volume 3, Living Resources

Table C-4. Representative Bird Species Likely or Observed to Occur in the Study Area

Common Name	Scientific Name	Probable Habitat ^f	Observed
Great blue heron	<i>Ardea herodias</i>	L, W, Fs, F	
Great egret	<i>Ardea albus</i>	W	
Cattle egret	<i>Bubulcus ibis</i>	W, Fs	
Green heron	<i>Butorides virescens</i>	L, W, Fs	
Canada goose	<i>Branta canadensis</i>	L, W, C	
Wood duck	<i>Aix sponsa</i>	Fs, W	
Mallard	<i>Anas platyrhynchos</i>	W, C, L, Fs, G	
Cooper's hawk	<i>Accipiter cooperii</i>	F, S, Sav	
Red-tailed hawk	<i>Buteo jamaicensis</i>	F, C, G, R, S	X
American kestrel	<i>Falco sparverius</i>	R, C, G, Sav	
Wild turkey	<i>Meleagris gallopavo</i>	F, S, Sav, Fs	
Northern bobwhite	<i>Colinus virginianus</i>	S, G, C, Sav	
Killdeer	<i>Charadrius vociferous</i>	W, R, G, C	X
American woodcock	<i>Scolopax minor</i>	F, Fs, S	
Rock dove	<i>Columba livia</i>	R, C	
Mourning dove	<i>Zenaida macroura</i>	R, C, S	X
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	F, S, Fs, Sav	X
Eastern screech-owl	<i>Otus asio</i>	R, S, Sav	
Great horned owl	<i>Bubo virginianus</i>	F, C, R, Fs, Sav	
Barred owl	<i>Strix varia</i>	F, Fs	
Common nighthawk	<i>Chordeiles minor</i>	R, Sav	
Chimney swift	<i>Chaetura pelagica</i>	R, F, S, Fs, Sav	X
Ruby-throated hummingbird	<i>Archilochus colubris</i>	F, S, R, Fs, Sav	X
Belted kingfisher	<i>Ceryle alcyon</i>	L, W	
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	Fs, R, C	
Red-bellied woodpecker	<i>Melanerpes carolinus</i>	F, Fs, S, R, Sav	X
Downy woodpecker	<i>Picoides pubescens</i>	F, Fs, R, S, Sav	X
Hairy woodpecker	<i>Picoides villosus</i>	F, Fs, Sav, R	
Northern flicker	<i>Colaptes auratus</i>	S, F, R, Sav, Fs	
Pileated woodpecker	<i>Dryocopus pileatus</i>	F, Fs, Sav	
Eastern wood-pewee	<i>Contopus virens</i>	F, Fs, R, Sav	X
Eastern phoebe	<i>Sayornis phoebe</i>	R, Fs	
Eastern kingbird	<i>Tyrannus tyrannus</i>	S, G, C, Sav	
Horned lark	<i>Eremophila alpestris</i>	C, G	
Tree swallow	<i>Tachycineta bicolor</i>	L, W, Fs, G	
Barn swallow	<i>Hirundo rustica</i>	C, R, W, L, G, S	
Blue jay	<i>Cyanocitta cristata</i>	R, F, Fs, S, C, Sav	X
American crow	<i>Corvus brachyrhynchos</i>	All	
Carolina chickadee	<i>Poecile carolinensis</i>	F, Fs, S, R, Sav	X
Black-capped chickadee	<i>Poecile atricapillus</i>	F, Fs, S, R, Sav	X
Tufted titmouse	<i>Baeolophus bicolor</i>	F, R, Fs, Sav	X
White-breasted nuthatch	<i>Sitta carolinensis</i>	F, R, Fs, Sav	X
Carolina wren	<i>Thryothorus ludovicianus</i>	R, F, Fs, S, Sav	
House wren	<i>Troglodytes aedon</i>	R, F, S, Sav	
Eastern bluebird	<i>Sialia sialis</i>	C, G, R, S, Sav	
Wood thrush	<i>Hylocichla mustelina</i>	F, Fs	X
American robin	<i>Turdus migratorius</i>	R, S, F, Fs, Sav	X
Gray catbird	<i>Dumetella carolinensis</i>	S, Fs, R, Sav	X
Northern mockingbird	<i>Mimus polyglottos</i>	R, S	
European starling	<i>Sturnus vulgaris</i>	R, C, F, Fs, Sav	
Yellow-throated vireo	<i>Vireo flavifrons</i>	F, Fs	X
Red-eyed vireo	<i>Vireo olivaceus</i>	F, Fs, Sav	
Common yellowthroat	<i>Geothlypis trichas</i>	G, C, W, S, R, Sav	X
Northern cardinal	<i>Cardinalis cardinalis</i>	R, F, Fs, S, C, Sav	X
Indigo bunting	<i>Passerina cyanea</i>	F, Fs, S, Sav	X
Dickcissel	<i>Spiza americana</i>	G, C	X
Eastern towhee	<i>Pipilo erythrophthalmus</i>	S, F	
Chipping sparrow	<i>Spizella passerina</i>	R, F, Sav	
Field sparrow	<i>Spizella pusilla</i>	S, G, C, Sav	X
Song sparrow	<i>Melospiza melodia</i>	R, S, W, C, G	
Red-winged blackbird	<i>Agelaius phoeniceus</i>	W, C, R, G, S, Sav	
Eastern meadowlark	<i>Sturnella magna</i>	G, C	

Table C-4. Representative Bird Species Likely or Observed to Occur in the Study Area

Common Name	Scientific Name	Probable Habitat [†]	Observed
Common grackle	<i>Quiscalus quiscula</i>	R, W, Fs, F	
Brown-headed cowbird	<i>Molothrus ater</i>	All	
Baltimore oriole	<i>Icterus galbula</i>	R, F, Fs, S, Sav	
American goldfinch	<i>Carduelis tristis</i>	S, R, G	X
House sparrow	<i>Passer domesticus</i>	R, C	

**Note: List does not include species that may occur exclusively in winter or as migrants.*

† The following habitat codes are used:

L = lakes

C = crops

G = grassland (including pasture and hayfield)

W = wetland (seasonally flooded, open habitats such as marshes and sedge meadows)

Fs = forested swamp (forested wetland, including wet floodplain forest)

Sav = savannah

F = upland and mesic forest

R = residential areas (including urban centers and the "urban forest")

S = shrublands (open habitats dominated by shrubs, including old fields)

Source: Modified from IDNR, 2000, Volume 3, Living Resources

**Table C-5 Common Fish Species Likely to Occur within the Proposed Rail
Build-Out Study Area**

Common Name	Scientific Name	Habitat*
Central stoneroller	<i>Campostoma anomalum</i>	S
Bluntnose minnow	<i>Pimephales notatus</i>	S
Red shiner	<i>Cyprinella lutrensis</i>	S
Redfin shiner	<i>Lythrurus umbratilis</i>	S
Sand shiner	<i>Notropis stramineus</i>	S
Bigmouth shiner	<i>Notropis dorsalis</i>	S
Creek chub	<i>Semotilus atromaculatus</i>	S
Silverjaw minnow	<i>Ericymba buccata</i>	S
Bullhead minnow	<i>Pimephales vigilax</i>	S
Gizzard shad	<i>Dorosoma cepedianum</i>	S, L
Common carp	<i>Cyprinus carpio</i>	S, L
Smallmouth buffalo	<i>Ictiobus bubalus</i>	S
White sucker	<i>Catostomus commersoni</i>	S
Creek chubsucker	<i>Erismyzon oblongus</i>	S
Channel catfish	<i>Ictalurus punctatus</i>	S, L
Yellow bullhead	<i>Ameiurus natalis</i>	S, L
Tadpole madtom	<i>Noturus gyrinus</i>	S
Blackstripe topminnow	<i>Fundulus notatus</i>	S
Green sunfish	<i>Lepomis cyanellus</i>	S, L
Bluegill	<i>Lepomis macrochirus</i>	S, L
Longear sunfish	<i>Lepomis megalotis</i>	S, L
Largemouth bass	<i>Micropterus salmoides</i>	S, L
Johnny darter	<i>Etheostoma nigrum</i>	S
White crappie	<i>Pomoxis annularis</i>	L
White bass	<i>Morone chrysops</i>	L
Striped bass	<i>Morone saxatilis</i>	L
Hybrid striped bass	<i>Morone saxatilis X Morone chrysops</i>	L
*Habitats: S = stream, L = lake		
Source: Modified from IDNR, 2000, Volume 3, Living Resources		

Table C-6
State-Listed Threatened and Endangered Species for Bond and Montgomery Counties

Scientific Name	Common Name	State Protection*	Number of occurrences
Bond County			
<i>Lanius ludovicianus</i>	Loggerhead shrike	LT	1
<i>Myotis sodalis</i>	Indiana bat	LE	1
<i>Nycticorax nycticorax</i>	Black-crowned night heron	LE	1
<i>Sabatia campestris</i>	Prairie rose gentian	LE	2
<i>Sistrurus catenatus catenatus</i>	Eastern massasauga	LE	1
<i>Tomanthera auriculata</i>	Ear-leafed foxglove	LT	3
Montgomery County			
<i>Ammodramus henslowii</i>	Henslow's sparrow	LE	1
<i>Buteo lineatus</i>	Red-shouldered hawk	LT	1
<i>Calephelis muticum</i>	Swamp metalmark	LE	1
<i>Liatris scariosa</i> var. <i>nieuwlandii</i>	Blazing star	LT	3
<i>Silene regia</i>	Royal catchfly	LE	1
<i>Sisyrinchium atlanticum</i>	Eastern blue-eyed grass	LE	1
<i>Tomanthera auriculata</i>	Ear-leafed foxglove	LT	2
<i>Trifolium reflexum</i>	Buffalo clover	LE	1
*LT= listed threatened, LE=listed endangered. Source: IDNR June 2004.			

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APPENDIX D

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APPENDIX E

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