

APPENDIX A
INTERAGENCY COORDINATION AND CORRESPONDENCE

11292

Federal Register / Vol. 65, No. 42 / Thursday, March 2, 2000 / Notices

Southwest Region, NMFS, 501 West Ocean Blvd., Suite 4200, Long Beach, CA 90802-4213 (310/980-4001);

Northwest Region, NMFS, 7600 Sand Point Way, NE, BIN C15700, Bldg. 1, Seattle, WA 98115-0070 (206/526-6150); and

Alaska Region, NMFS, P.O. Box 21668, Juneau, AK 99802-1668 (907/586-7221).

Dated: February 25, 2000.

Ann D. Terbush,

Chief, Permits and Documentation Division, Office of Protected Resources, National Marine Fisheries Service.

[FR Doc. 00-5068 Filed 3-1-00; 8:45 am]

BILLING CODE 3510-22-F

COMMODITY FUTURES TRADING COMMISSION

Applications of the Chicago Mercantile Exchange for Designation as a Contract Market for Futures and Options on the FORTUNE e-50 Index™

AGENCY: Commodity Futures Trading Commission.

ACTION: Notice of availability of terms and conditions of proposed commodity futures and options contracts.

SUMMARY: The Chicago Mercantile Exchange (CME or Exchange) has applied for designation as a contract market for futures and options on the FORTUNE e-50 Index™. The Acting Director of the Division of Economic Analysis (Division) of the Commission, acting pursuant to the authority delegated by Commission Regulation 140.96, has determined that publication of the proposals for comment is in the public interest, will assist the Commission in considering the views of interested persons, and is consistent with the purpose of the Commodity Exchange Act.

DATES: Comments must be received on or before April 3, 2000.

ADDRESSES: Interested persons should submit their views and comments to Jean A. Webb, Secretary, Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW, Washington, DC 20581. In addition, comments may be sent by facsimile transmission to facsimile number (202) 418-5521 or by electronic mail to secretary@cftc.gov. Reference should be made to the Chicago Mercantile Exchange (CME) for futures and options on the FORTUNE e-50 Index™.

FOR FURTHER INFORMATION CONTACT: Please contact Thomas Leahy of the Division of Economic Analysis,

Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW., Washington, DC (202) 418-5278. Facsimile number: (202) 418-5527. Electronic mail: tleahy@cftc.gov

SUPPLEMENTARY INFORMATION: Copies of the terms and conditions will be available for inspection at the Office of the Secretariat, Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW., Washington, DC 20581. Copies of the terms and conditions can be obtained through the Office of the Secretariat by mail at the above address or by phone at (202) 418-5100.

Other materials submitted by the CME in support of the applications for contract market designation may be available upon request pursuant to the Freedom of Information Act (5 U.S.C. 552) and the Commission's regulations thereunder (17 CFR Part 145 (1997)), except to the extent they are entitled to confidential treatment as set forth in 17 CFR 145.5 and 145.9. Requests for copies of such materials should be made to the FOI, Privacy and Sunshine Act Compliance Staff of the Office of Secretariat at the Commission's headquarters in accordance with 17 CFR 145.7 and 145.8.

Any person interested in submitted written data, views, or arguments on the proposed terms and conditions, or with respect to other materials submitted by the CME should send such comments to Jean A. Webb, Secretary, Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW, Washington, DC 20581 by the specified date.

Issued in Washington, DC, on February 25, 2000.

Richard A. Shilts,

Acting Director.

[FR Doc. 00-4967 Filed 3-1-00; 8:45 am]

BILLING CODE 6301-01-M

DEPARTMENT OF DEFENSE

Department of the Army

Notice of Intent (NOI) To Prepare an Environmental Impact Statement for the Future Development and Operations at Fort Meade, MD

AGENCY: Department of the Army, DOD.

ACTION: Notice of availability.

SUMMARY: The U.S. Army Fort George G. Meade, Maryland, announces its intent to prepare an Environmental Impact Statement (EIS) that will address the future development and operations of

Fort Meade's Real Property Master Plan (RPMP) for the Years 2000-2004. The planned projects which will occur during this time include the following: construction of new facilities that will consolidate tenants from dilapidated World War II structures and off post leased facilities into more cost efficient and effective facilities, demolition and construction of barracks and mess halls and providing on post development opportunities for tenants on installations that are currently faced with Base Realignment and Closure. It is the purpose of this EIS to further assess the impacts, most specifically to air and traffic, that were identified in the Environmental Assessment entitled "Future Development and Operations Environmental Assessment" dated April 1999.

ADDRESSES: Questions or written comments may be forwarded to the U.S. Army Corps of Engineers, Baltimore District, Planning Division, Planning and Environmental Services Branch (Attn: Ft. Meade EIS), 10 South Howard Street, P.O. Box 1715, Baltimore, Maryland 21203-1715, Telephone (410) 962-4939.

FOR FURTHER INFORMATION CONTACT: Mr. Jim Gebhardt, Environmental Engineer, Directorate of Public Works Environmental Management Office, at (301) 677-9365.

SUPPLEMENTARY INFORMATION: The Fort Meade RPMP has the potential to significantly impact certain natural, economic, social and cultural resources of the Fort Meade community. The objective is to prepare a comprehensive EIS which will serve as a planning tool, a public information source and a reference for mitigation tracking.

Alternatives may consist of alternate locations for specific projects, partial implementation of the specific project or modifications to the specific project. The alternatives will be developed during the preparation of the Draft EIS (DEIS) as a result of public input and the environmental analysis of the proposals within the plan. The objective Fort Meade's DEIS is to identify and evaluate any environmental implications that may result from developing the Master Plan. The DEIS will describe the impacts of existing environmental, cultural and natural resources, social, economic and environmental justice conditions associated with the proposed projects at Fort Meade.

The Army will initiate a scoping process to discuss significant issues related to the DEIS through public meetings and local publications. These efforts are designed to encourage public

input that will inevitably help determine and better define the underlying issues of the DEIS. Planned public meetings will be announced through local publications and online Internet access in advance of any proposed action, announcing meeting time and location.

A public meeting will be held on Fort Meade to facilitate input to the EIS process by citizens and organizations. The date and time of these meetings will be announced in the general media and will be at times and locations convenient to the public. To be considered in the Draft EIS, comments and suggestions should be received not later than 15 days following the public scoping meeting.

Significant issues: Within Fort Meade's boundaries lie numerous historic and prehistoric sites that were identified through the Cultural Resources Management Plan. Fort Meade also maintains historically significant structures which are eligible for inclusion on the National Register and may be directly affected by the actions proposed in the long range Master Plan. Equally important is the impact Fort Meade has on the Chesapeake Bay and the crucial role it plays in maintaining and protecting which is considered one of the world's most diverse ecosystems. Fort Meade is also home to eleven State Endangered Species, including the Glassy Darter which is one of only two locations in the State of Maryland where the fish is known to exist.

Dated: February 24, 2000.

Raymond J. Faiz,

Deputy Assistant Secretary of the Army
(Environment, Safety and Occupational Health) OASA(10E).

[FR Doc. 00-5082 Filed 3-1-00; 8:45 am]

BILLING CODE 3710-08-M

DEPARTMENT OF EDUCATION

National Assessment Governing Board; Information Collection Request

AGENCY: National Assessment Governing Board; Department of Education.

ACTION: Notice of amended information collection request.

SUMMARY: The National Assessment Governing Board (NAGB) is amending the Notices of Proposed Information Collection Request (ICR) published on January 18, 2000 and revised on February 18, 2000. The present notice is to inform the public that the Governing Board has cancelled one of two proposed research studies. The study

that was cancelled is on the feasibility of establishing a calibration linkage between a test form resembling an individual test and a survey of group results—the National Assessment of Educational Progress. The study is described in the January 18 and February 18, 2000 notices.

ADDRESSES: Written comments should be addressed to the Office of Information and Regulatory Affairs; Attention: Danny Werfel, Desk Officer; Department of Education; Office of Management and Budget; 725 17th Street, N.W., Room 10235; New Executive Office Building; Washington, D.C. 20503 or should be electronically mailed to the internet address DWERFEL@OMB.EOP.GOV. Submit written comments, on or before March 17, 2000, identified by "ICR: VNT Research and Validation Support Studies (Option Year 2)." The National Assessment Governing Board will forward to OMB any comments received from the public in response to the January 18, 2000 notice inviting requests for public comment on this ICR.

SUPPLEMENTARY INFORMATION: Section 3506 of the Act (44 U.S.C. Chapter 35) requires that the Director of OMB provide interested federal agencies and the public an early opportunity to comment on information collection requests. The Office of Management and Budget (OMB) may amend or waive the requirement for public consultation to the extent that public participation in the approval process would defeat the purpose of the information collection, violate State or federal law, or substantially interfere with any agency's ability to perform its statutory obligations. In compliance with the Paperwork Reduction Act (44 U.S.C. 3501 *et seq.*), this notice amends a proposed information collection request (ICR) of the National Assessment Governing Board (the Governing Board, or NAGB) published on January 18, 2000 and revised on February 18, 2000. The information collection is to conduct a research and validation support study related to test development for the proposed Voluntary National Test (VNT) during Spring 2000.

ADDITIONAL INFORMATION: Copies of this ICR may be obtained from Ray Fields, Assistant Director, National Assessment Governing Board, Suite 825, 800 North Capitol Street, NW., Washington, DC 20002. Telephone: (202) 357-0395; e-mail: Ray_Fields@ED.Gov.

Dated: February 28, 2000.

Roy Truby,

Executive Director, National Assessment Governing Board.

[FR Doc. 00-5072 Filed 3-1-00; 8:45 am]

BILLING CODE 4000-01-M

DEPARTMENT OF EDUCATION

National Educational Research Policy and Priorities Board; Quarterly Meeting

AGENCY: National Educational Research Policy and Priorities Board; Education.

ACTION: Notice of Meeting.

SUMMARY: This notice sets forth the schedule and proposed agenda of a forthcoming quarterly meeting of the National Educational Research Policy and Priorities Board. Notice of this meeting is required under Section 10(a)(2) of the Federal Advisory Committee Act. This document is intended to notify the general public of their opportunity to attend the meeting.

DATES: March 16, 2000.

TIME: 9 a.m. to 5 p.m.

LOCATION: Room 100, 80 F St., NW., Washington, DC 20208-7564.

FOR FURTHER INFORMATION CONTACT: Thelma Leenhouts, Designated Federal Official, National Educational Research Policy and Priorities Board, Washington, DC 20208-7564. Tel.: (202) 219-2065; fax (202) 219-1528; e-mail: Thelma_Leenhouts@ed.gov, or nerpph@ed.gov. The main telephone number for the Board is (202) 208-0692.

SUPPLEMENTARY INFORMATION: The National Educational Research Policy and Priorities Board is authorized by Section 921 of the Educational Research, Development, Dissemination, and Improvement Act of 1994. The Board works collaboratively with the Assistant Secretary for the Office of Educational Research and Improvement (OERI) to forge a national consensus with respect to a long-term agenda for educational research, development, and dissemination, and to provide advice and assistance to the Assistant Secretary in administering the duties of the Office. The meeting is open to the public. Individuals who will need accommodations for a disability in order to attend the meeting (i.e., interpreting services, assistive listening devices, materials in alternative format) should notify Thelma Leenhouts at (202) 219-2065 by no later than March 9. We will attempt to meet requests after this date, but cannot guarantee availability of the requested accommodation. The meeting site is accessible to individuals with disabilities.

PARRIS N. GLENDENING, *Governor*
HENRY A. VIRTS, D.V.M., *Secretary*



The Wayne A. Cawley, Jr. Building
50 HARRY S. TRUMAN PARKWAY
ANNAPOLIS, MARYLAND 21401
Baltimore/Annapolis (410) 841-5700
Washington (301) 261-8106
Facsimile (410) 841-5914
MD Relay 1-800-735-2258
e-mail address <http://www.mda.state.md.us>

STATE OF MARYLAND
DEPARTMENT OF AGRICULTURE

July 27, 1998

Ms. Emily C. Rzemien
Versar Task Manager
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

RE: *Fort George G. Meade - Environmental Assessment*

Dear Ms. Rzemien:

Thank you for the opportunity to review and comment on the above-referenced project. The Maryland Department of Agriculture has no comments regarding the proposed action.

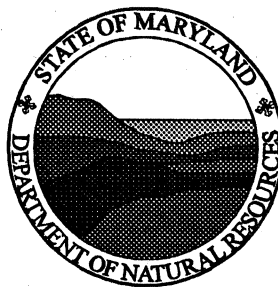
Should you have any questions, do not hesitate to call me at 410/841-5880.

Sincerely,

A handwritten signature in black ink, appearing to read "Henry A. Virts".

Henry A. Virts, D.V.M.
Secretary

HAV:mej



Parris N. Glendening
Governor

Maryland Department of Natural Resources
Forest, Wildlife and Heritage Service
Tawes State Office Building
Annapolis, Maryland 21401

John R. Griffin
Secretary

Carolyn D. Davis
Deputy Secretary

August 3, 1998

Ms. Emily C. Rzemien
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

RE: Future Activities Proposed for Fort George G. Meade as Described Within Current Master Plan, Anne Arundel County

Dear Ms. Rzemien:

The Wildlife and Heritage Division has no records for Federal or State rare, threatened or endangered plants or animals within any of the specified project sites. This statement should not be interpreted as meaning that no rare, threatened or endangered species are present. Such species could be present but have not been documented because an adequate survey has not been conducted or because survey results have not been reported to us.

Sincerely,

Michael E. Slattery
MSB for

Michael E. Slattery,
Director,
Wildlife & Heritage Division

cc: R. Dintaman, DNR
ER# 98.1091.aa

A-6

Telephone: (410) 260-8540
DNR TTY for the Deaf: 410-974-3683



Parris N. Glendening
Governor

Maryland Department of Natural Resources

ENVIRONMENTAL REVIEW

Tawes State Office Building
Annapolis, Maryland 21401

August 5, 1998

John R. Griffin
Secretary

Carolyn D. Davis
Deputy Secretary

Emily C. Rzemien
Versar Task Manager
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

Dear Ms. Rzemien:

Thanks you for the opportunity to review and comment on the proposed action at Fort George G. Meade in preparation for development of an Environmental Assessment (EA) by the installation and the U.S. Army Corps of Engineers, Baltimore District. The proposed action has been reviewed by the various units of the Department. The following information is provided for your use in preparing the subject EA:

Little Patuxent River

A portion of the main stem of the Little Patuxent River, could be impacted by activities that occur at Fort Meade. Little Patuxent River and its tributaries are classified as Use I waters. Use I waters are protected for water contact recreation and aquatic life.

Anadromous fish

Anadromous fish species, including white perch (Morone americana), yellow perch (Perca flavescens), and herring (Alosa sp.) have been documented spawning in the Little Patuxent River. These anadromous fish may also reach the lower portions of tributaries in the study area. All of these waters are considered to be sensitive habitats because of potential anadromous fish spawning in this area.

Resident fish populations

A list of resident fish species (Table B1-4), which have been documented in the Little Patuxent River by our Maryland Biological Stream Survey project, is attached for your information. Tributaries in your study area, that have perennial flow, may support populations of many of these

Emily C. Rzemien
August 5, 1998
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resident fish species. These species include the glassy darter (*Etheostoma vitreum*), a state threatened species. The potential presence of the glassy darter in the Little Patuxent River is significant, as discussed below. It is possible that this species could also be found in tributaries to the Little Patuxent River.

Glassy Darter

Historically, the glassy darter has only been documented in a few locations in Maryland. In 1988, the species was listed as "highly rare" by the Maryland Natural Heritage Program. After the species apparently disappeared from several of the sites where it was previously known to exist, the species was listed as "endangered extirpated" (no longer believed to exist in the State) in 1990. However, shortly after this listing, the species was found to still exist in Maryland, but in very limited populations.

Extensive surveys were conducted in 1991 by consultants to the Natural Heritage Program to search for the glassy darter in Maryland. The conclusion of a report submitted to the Program stated that only two populations of glassy darters were located in Maryland; one in the Little Patuxent River and the other in the Marshyhope Creek drainage to the Nanticoke River. In the Little Patuxent River, the glassy darter habitat was described as that reach of the river from Savage down stream to its confluence with the Patuxent River. Glassy darters were found to be relatively common in the Little Patuxent River immediately below the Fort Meade Dam at MD Route 198.

Because this species is known in only two small, unconnected locations in Maryland, its populations are not well suited to withstanding impacts to their habitat or recolonizing disturbed areas in the manner of some of the more common fish species. It is important that special precautions be taken to avoid impacts to the stream. Even very infrequent impacts to the stream could cause significant damage to the glassy darter population in Maryland.

Severn Run

Small headwater tributaries to Severn Run occur on the northeast side of the study area. Severn Run and its tributaries are designated as Use IV streams (stocked trout waters). Severn Run is stocked with adult rainbow trout each spring by our Department as part of a put-and-take recreational trout fishery. These trout are stocked and further disperse through most of the middle reaches of the stream. Based on stream temperature data collected in recent years, Severn Run appears to be strongly influenced by springs in some areas, which help keep water temperatures cool during the summer. Trout are not expected to be found in the extreme headwaters, however activities that impact the headwaters of Severn Run could affect this recreational fishery.

White perch (*Morone americana*) and yellow perch (*Perca flavescens*) have been documented spawning in the middle to lower reaches of Severn Run. Herring (*Alosa* sp.) have been documented

Emily C. Rzemien
August 5, 1998
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spawning in the Severn River, downstream of Severn Run. These species are not expected to be present in the extreme headwaters near your project site, but potential instream impacts at your site could affect their downstream spawning habitat.

Our files do not contain data on the resident fish populations which exist in the Severn River headwaters in your study area. It is expected that the perennial reaches of tributaries support resident populations of several warm water species typically found in this region.

Thank you again for the opportunity to comment on the proposed activities at Fort George G. Meade. If you should have any questions concerning these comments, please call me at 410-260-8331.

Sincerely,

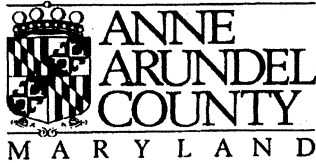


Ray C. Dintaman, Jr., Director
Environmental Review Unit

RCD
Attachment

Table B1-4. Fish species found in 1994 MBSS project sampling vs supplemental sampling, Patuxent Basin

Fish Species	MBSS Study	Supplemental Sampling
AMERICAN BROOK LAMPREY	X	
AMERICAN EEL	X	X
BANDED KILLIFISH	X	X
BANDED SUNFISH	X	
BLACKNOSE DACE	X	X
BLUEGILL	X	X
BLUESPOTTED SUNFISH	X	X
BROWN BULLHEAD	X	X
BROWN TROUT		X
CENTRAL STONEROLLER		X
CHAIN PICKEREL	X	
CHANNEL CATFISH		X
COMMON SHINER		X
CREEK CHUB	X	X
CREEK CHUBSUCKER	X	X
CUTLIPS MINNOW	X	X
EASTERN MUDMINNOW	X	X
FALLFISH	X	X
FATHEAD MINNOW		X
GIZZARD SHAD		X
GLASSY DARTER	X	
GOLDEN SHINER	X	X
GREEN SUNFISH		X
LAMPREY	X	X
LARGEMOUTH BASS	X	X
LEAST BROOK LAMPREY		X
LEPOMIS	X	
LEPOMIS HYBRID		X
LONGNOSE DACE		X
MARGINED MADTOM	X	X
MOSQUITOFISH	X	X
MUMMICHOG		X
NORTHERN HOGSUCKER		X
PIRATE PERCH	X	X
POTOMAC SCULPIN		X
PUMPKINSEED	X	X
RAINBOW TROUT		X
REDBREAST SUNFISH	X	X



LAND USE AND ENVIRONMENT OFFICE

HERITAGE OFFICE COMPLEX
2662 RIVA ROAD
ANNAPOLIS, MARYLAND 21401

August 12, 1998

Ms. Emily C. Rzemien
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

Re: Environmental Assessment - Fort George G. Meade

Dear Ms. Rzemien:

This is in response to your letter to Mr. Thomas C. Andrews, dated July 17, 1998, which has been referred to my office for reply.

We have reviewed your letter and find that many of these uses near Route 175 in Odenton will complement the revitalization efforts that the County is currently pursuing with the business owners on the east side of Route 175. There are three important issues that the EA should recognize. First, the County and Fort Meade have been working together to plan the widening of Route 175 in North Odenton. This effort will necessitate securing an easement from the Fort to accomplish this plan.

Second, there is a joint planning project between the County and Fort Meade for a large senior housing project on the property presently owned by Fort Meade. This agreement calls for the Fort to convey the property to the County in exchange for an equal value of housing construction on base by the County for its military personnel. The EA should evaluate whether or not there will be any conflicts with the project on site 11.

Third, is the revitalization effort that the county is investing in for the North Odenton area. In order to maximize the economic development impact of these proposed activities, it is strongly recommended that these uses locate and be oriented as close to Route 175 as possible. This will tie the Fort Meade Community much closer to the Odenton community and provide the economic spinoff to the revitalized businesses across Route 175.

Enclosed is a copy of the planning documents prepared by the Anne Arundel County Planning and Code Enforcement Department for the Odenton Town Plan.

Ms. Emily C. Rzemien

August 12, 1998

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In closing, we would be interested in knowing how the recent National Priorities Listing will affect the proposed timetables provided in your letter. We would anticipate significant delays caused by EPA if the EA's discover any potential or actual contamination at any of these parcels.

If you have any questions or need any further information, please do not hesitate to contact this office.

Sincerely,

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

Ronald Nelson
Land Use and Environment Officer

RN:bd
rzemien.wpd

cc: Thomas Andrews



MARYLAND DEPARTMENT OF THE ENVIRONMENT
2500 Broening Highway • Baltimore Maryland 21224
(410) 631-4120

Parris N. Glendening
Governor

Jane T. Nishida
Secretary

August 13, 1998

Ms. Emily C. Rzemien
Versar, Inc.
9200 Rumsey Road
Columbia MD 21045-1934

RE: MDE Identification Number: ES98-0723-0026
Project: Fort Meade Proposed Action

Dear Ms. Rzemien:

Thank you for the opportunity to review the above referenced project. The document was circulated throughout the Maryland Department of the Environment (MDE) for review, and the following comments are offered for your consideration.

1. If the applicant suspects that asbestos is present in any portion of the structure that will be renovated/demolished, then the applicant should contact Mr. Frank Whitehead, Community Environmental Services Program, Air and Radiation Management Administration at (410) 631-3215 to learn about the State's requirements for asbestos handling.
2. Construction, renovation and/or demolition of buildings and roadways must be performed in conformance with State regulations pertaining to "Particulate Matter from Materials Handling and Construction" (COMAR 26.11.06.03D), requiring that during any construction and/or demolition work, reasonable precaution must be taken to prevent particulate matter, such as fugitive dust, from becoming airborne.
3. If boilers or other equipment capable of producing emissions are installed as a result of this project, the applicant is requested to obtain a permit to construct from MDE's Air and Radiation Management Administration for this equipment, unless the applicant determines that a permit for this equipment is not required under State regulations pertaining to "Permits, Approvals, and Registration" (COMAR 26.11.02.). A review for toxic air pollutants should be performed. Please contact Dr. Justin Hsu, Ph.D., P.E., New Source Permits Division, Air and Radiation Management Administration at (410) 631-3230 to learn about the State's requirements and the permitting processes for such devices.

4. If soil contamination is present, a permit for soil remediation is required from MDE's Air and Radiation Management Administration. Please contact Dr. Justin Hsu, Ph.D., P.E., New Source Permits Division, Air and Radiation Management Administration at (410) 631-3230 to learn about the State's requirements for these permits.
5. The applicant is encouraged to plan for the maximum utilization of carpools and public transit by employees providing preferential carpool/vanpool parking and bus shelters for commuters that use these methods of transportation. This will minimize the adverse impact of additional traffic generated by the proposed project. Please contact the Mobile Sources Program, Air and Radiation Management Administration at (410) 631-3270 for additional information.
6. All x-ray machines in the State of Maryland must be registered. Please contact Mr. Thomas Ferguson, X-Ray Section, Air and Radiation Management Administration at (410) 631-3300 for additional information. Any person or institution that wants to acquire radioactive materials is required to possess a license. Please contact Mr. Carl Trump, Jr., Radioactive Materials Licensing Section, Air and Radiation Management Administration at (410) 631-3300 for additional information.
7. If a project receives federal funding, approvals and/or permits, and will be located in a nonattainment area or maintenance area for ozone or carbon monoxide, the applicant should determine whether emissions from the project will exceed the thresholds identified in the federal rule on general conformity. If the project emissions will be greater than 25 tons per year, contact James Wilkinson, Air and Radiation Management Administration, at (410) 631-3245 for further information regarding threshold limits.
8. Fossil fuel fired power plants emit large quantities of sulfur oxide and nitrogen oxides, which cause acid rain. In addition, nitrogen oxide emissions contribute to the problem of global warming and also combine with volatile organic compounds to form smog. The MDE supports energy conservation, which reduces the demand for electricity and therefore, reduces overall emissions of harmful air pollutants. For these reasons, MDE recommends that the builders use energy efficient lighting, computers, insulation and any other energy efficient equipment. Contact the U.S. EPA at (202) 233-9120 to learn more about the voluntary Green Lights Program which encourages businesses to install energy-efficient lighting systems.
9. The applicant should be advised that no cutback asphalt should be used during the months of June, July and August.
10. Lighting for security, athletic fields, and parking needs to be shielded from nearby residences.
11. Project should support resource conservation and pollution prevention through land use and transportation designs that provide alternatives to single occupant vehicle use.

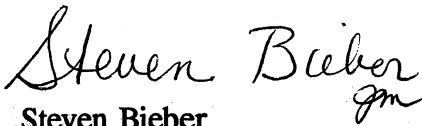
Ms. Emily C. Rzemien
August 13, 1998
Page Three

12. The Waste Management Administration's files contain extensive information regarding Fort Meade. It is recommended that you contact the programs individually:

Hazardous Waste Program	(410) 631-3343
Oil Control Program	(410) 631-3386
Solid Waste Program	(410) 631-3318
Environmental Restoration and Redevelopment Program	(410) 631-3437
Regulatory and Technical Assistance Program	(410) 631-3441

Again, thank you for giving MDE the opportunity to review this project. If you have any questions, please feel free to call me at (410) 631-3656.

Sincerely,



Steven Bieber
Clearinghouse Coordinator

cc: Secretary Jane Nishida



**Maryland
Department of
Housing and
Community
Development**

*Division of Historical and
Cultural Programs*

100 Community Place
Crownsville, Maryland 21032

410-514-7600

1-800-756-0119

Fax: 410-987-4071

Maryland Relay for the Deaf:

1-800-735-2258

<http://www.dhcd.state.md.us>

Parris N. Glendening
Governor

Patricia J. Payne
Secretary

Raymond A. Skinner
Deputy Secretary

October 27, 1998

Ms. Emily C. Rzemien
Versar, Inc.
9200 Rumsey Road
Columbia, Maryland 21045-1934

RE: Fort George G. Meade
Anne Arundel County, MD

Dear Ms. Rzemien:

Thank you for providing this office with an opportunity to comment on future activities proposed at Fort George G. Meade. We understand that your firm is preparing an Environmental Assessment (EA) for these activities. We apologize for our tardy response. However, the Army will need to consult with the Trust for each undertaking in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended.

Your preliminary review of the *Fort George G. Meade Cultural Resources Management Plan* should greatly facilitate the Army's initiation of Section 106 review. The Plan identifies the architectural and archeological resources which have been determined eligible for the National Register of Historic Places. The Army has undertaken additional cultural resource investigations at the base. Reports are available to the public in the Trust's library. Please contact Ms. Mary Louise de Sarran, our librarian, at (410) 514-7655 to schedule an appointment. Our written correspondence and project files are also available for review upon request. The project files can be accessed by contacting me at (410) 514-7637.

Although it appears that the future undertakings are located outside the Post Core Historic District, this office would like to provide the following suggestions. Any rehabilitation of a historic building must be done in accordance with the Secretary of the Interior's *Standards for Rehabilitation*. Secondly, new construction within the historic district must be compatible with the existing historic architecture in scale, massing, and materials, as noted in the *Standards*.

Should you have any questions, please feel free to call me at the number above.

Sincerely,

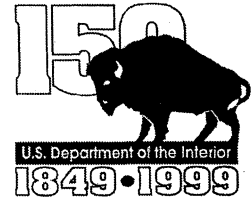
Lauren L. Bowlin
Preservation Officer
Project Review and Compliance

LLB/llb/9802389

cc Mr. William Harmeyer



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401

March 1, 1999

Emily Rzemien
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045

RE: Fort Meade Master Plan

Dear Ms. Rzemien:

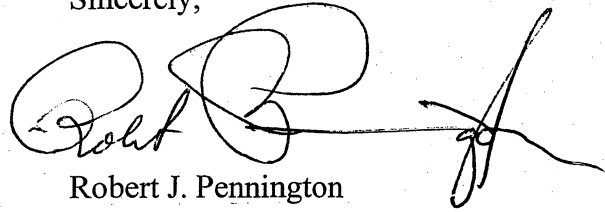
This responds to your July 17, 1998, letter which we did not receive, and your subsequent fax of February 2, 1999, regarding the Fort Meade Master Plan. This letter constitutes the report of the Service and the Department of the Interior on the proposed project and is submitted in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*), and Section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

There are a number of Solid Waste Management Units on Fort Meade. Some discussion of how construction actions may affect these areas is warranted. There is currently a TCE ground water spill that is encroaching upon a wetland. It appears that a major impact could be erosion and sedimentation of the Fort's waterways due to the addition of runoff from impervious surfaces. In addition, this increased runoff could not only increase sedimentation, but also carry contamination from identified and unidentified SWMU's.

Except for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist in areas of the proposed actions. Should additional information on the distribution of listed or proposed species becomes available, this determination may be reconsidered.

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interest in these resources. If you have any questions or need further assistance, please contact Bob Zepp at (410)573-4536.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert J. Pennington". The signature is stylized with large loops and a long horizontal stroke extending to the right.

Robert J. Pennington
Assistant Field Supervisor
Div. of Habitat Evaluation and Protection

APPENDIX B
REFERENCES

REFERENCES

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Additional Internet Information Sources

Asbestos Background Information = http://www.musc.edu/DEHS/Asbestos_Info.html – August, 1999.

CDC Lead Information Site = <http://www.atsdr.cdc.gov/HEC/caselead.html> – August, 1999.

EPA CERCLA Information Sites = <http://www.superfund/> and <http://www.epa.gov/reg3hwmd/wuper/ftmead/pad.htm> – August, 1999.

EPA Office of Pesticide Programs Page = <http://www.epa.gov/pesticides/> and <http://www.epa.gov/opp00001/whatis.htm> – August, 1999.

EPA Sources of Information on Indoor Air Quality – Radon – www.epa.gov/iaq/radon/index.html – August, 1999.

Lead Home Page at EPA = <http://www.aeclp.org/2/lead101.html> and <http://www.epa.gov/opptintr/lead/index.html> – August, 1999.

MDE CERCLA Information Site = <http://www.mde.state.md.us/gw/gunpowder/cercla.htm> – August, 1999.

NRCS Internet Site = <http://www.wi.nrcs.usda.gov/soil/prime/prinotes.html> -- August, 1999.

OSHA Internet Site = <http://www.osha.gov> – August, 1999.

PCB Home Page at EPA = <http://www.epa.gov/opptintr/pcb/> – August, 1999.

Radon Research Center = <http://www.Sbu.ac.uk/rrc/sect1.html> – August, 1999.

The Superfund NPL Assessment Program (SNAP) Database – August 1999.

Reference Materials

Fort Meade Master Plan Review Map 1997.

Howard County General Land Use Plan Map 1990.

APPENDIX C
PUBLIC SCOPING MEETING MINUTES
AND RELATED MATERIALS

Jennifer Massagli and Mark Southerland
Versar, Inc.
May 15, 2000

Summary of Fort Meade EIS Scoping Meeting

For the purpose of the Environmental Impact Statement (EIS), a public information and scoping session for proposed future development and operations was held in the 8th Street Chapel at Fort George G. Meade, Maryland on April 20, 2000 from 1800 to 2100 hours. The public was invited to participate through advertisements in local newspapers.

Format. The public information and scoping session was organized as a workshop format with stations addressing the following topics:

- Proposed Action
- Potential Impacts
- Traffic
- Air Quality

Each station was staffed by an environmental impact assessment specialist and included visual and written information for the public (see attached handouts).

The Proposed Action station outlined the new construction activities expected to occur on Fort George G. Meade between 2000 and 2004. The description of the Proposed Action included construction projects typical of those that are currently implemented, since it is uncertain which specific actions will be implemented. A large map of Fort George G. Meade depicting the locations of each of the 11 projects was displayed.

The second station focused on potential impacts to Fort George G. Meade and the surrounding area. In April 1999, the U.S. Army published an Environmental Assessment (EA) of the future development and operations at Fort George G. Meade, which found that no significant impacts to environmental or socioeconomic resources with the exception of traffic and air quality would likely occur. Although no significant impacts to other resources were identified in the EA, potential impacts to all resources will be analyzed in EIS. Two large maps illustrating current and future land use at Fort George G. Meade were provided.

Two additional stations addressed traffic and air quality issues. Traffic issues were addressed in terms of the level of service at key intersections within the study area. Air quality issues addressed included temporary impacts from construction and demolition activities and permanent impacts from the operation of the new facilities and increased employee traffic. The relationship to Baltimore's severe non-attainment area status for ozone was discussed.

Staffing. The following ten individuals from the US Army Corp of Engineers-Baltimore District; Fort George G. Meade; Versar, Inc.; and the Traffic Group were available throughout the public information and scoping session to answer questions or address potential concerns:

USACE-Baltimore District

- Katherine Basye
- Dave Hand
- Vaso Karanikolis

Fort Meade Department of Public Works

- Jim Gebhardt, project manager
- Leayle Galiber, master planner

Versar

- Mark Southerland
- Lou Corio
- Claire Fox
- Jennifer Massagli

The Traffic Group

- Mike Lenhart

An interpreter from the Hearing and Speech Association of Maryland was available throughout the scoping session.

Attendees. The following members of the public attended the public information and scoping session:

- Mike Snylanski, Severn Small Area Planning Committee
- William Valenta, USARC
- Ray Ringgold, Delmott Implementation Association

Comments. Each of the attendees met with members of the EIS team and discussed issues informally. Only one written comment was received commending the meeting, while recommending additional advertisement about the project. Since no comments recommending new alternatives or analyses were received, the project is proceeding per an expedited schedule.

PUBLIC NOTICE

**Public Information and Scoping Session
Proposed Future Development and Operations
at
Fort George G. Meade, Maryland**

**Thursday, April 20, 2000
6:00 PM to 9:00 PM
8th Street Chapel
8th Street and Chisholm Avenue
Fort Meade, Maryland**

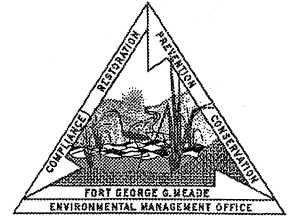
There will be a public information and scoping session on the proposed Future Development and Operations at Fort George G. Meade. An Environmental Impact Statement (EIS) will address the future development and operations of Fort Meade's Real Property Master Plan for the Years 2000-2004. The planned projects which would be expected to occur at this time include the following: construction of new facilities that would consolidate tenants from dilapidated World War II structures and off post leased facilities into more cost efficient and effective facilities, demolition and construction of barracks and mess halls, and the providing of on post development opportunities for tenants on installations that are currently faced with Base Realignment and Closure. It is the purpose of this EIS to further assess the environmental and socioeconomic impacts of the proposed projects, most specifically relating to air quality and increased traffic at Fort Meade, that were identified in the Environmental Assessment entitled "Future Development and Operations Environmental Assessment" dated April 1999.

The purpose of this public information and scoping session is to provide information on the future development and operations at Fort Meade, and to receive input to the EIS process from citizens and organizations. The public is encouraged to attend this session between the hours of 6:00 p.m. and 9:00 p.m. to provide comments, ideas, and suggestions. All comments received at this session will be evaluated and incorporated as appropriate into the EIS, and will be considered during the final decision-making process. The information session is open to the public and any interested persons are invited to attend.

Any questions pertaining to this public notice may be directed to Mr. Jim Gebhardt, Fort Meade Directorate of Public Works, Environmental Management Office, at (301) 677-9365.



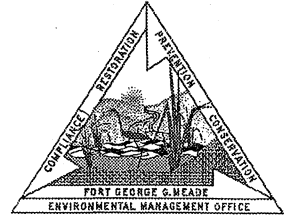
William Harmeyer
Acting Chief, Environmental
Management Office



**PUBLIC INFORMATION
AND
SCOPING SESSION
FOR
PROPOSED FUTURE DEVELOPMENT AND OPERATIONS
FORT GEORGE G. MEADE, MARYLAND**

**INFORMATION SHEETS
AND
COMMENT CARD**

**20 APRIL 2000 6:00-9:00PM
8TH STREET CHAPEL
8TH STREET AND CHISHOLM AVENUE
FORT MEADE, MARYLAND**



PROPOSED ACTION

For the purpose of the Environmental Impact Statement (EIS), the Proposed Action includes new construction activities expected to occur on Fort George G. Meade between 2000 and 2004 as part of plans to further Fort Meade's mission as a Federal administrative center. Since it is uncertain which specific actions will actually be implemented within this time frame, the Proposed Action includes construction projects typical of those that are currently planned in the administration and support areas of the installation. The pertinent operations and maintenance activities associated with the Proposed Action will also be addressed in the EIS.

To provide the specificity needed for reasonable predictions of the environmental consequences, 11 projects were identified by the Fort Meade Master Planner for consideration within the Proposed Action as being representative of the expected build out by 2004.

Fort Meade planners estimate that approximately 900 individuals will be added to the post's working population. The projects will account for 270,381 square feet (SF) of additional administrative and support facilities. Below is a brief definition of each of the 11 projects included in the Proposed Action:

- ◆ **Military Entrance Processing Station (MEPS)** - Construct a new 31,200-SF MEPS facility to replace the current leased off-post facility.
- ◆ **Personnel Barracks Replacement, Phase I** - Construct a new 52,750-SF enlisted personnel barracks and soldier community building, and demolish existing barracks.
- ◆ **Personnel Barracks Replacement Phase II** - Same as above.
- ◆ **Dining Facility** - Construct a 24,500-SF, 1,300-person dining facility. This action would include demolition of 25,000-SF of World War II (WWII) temporary structures.
- ◆ **Company Headquarters** - Construct two standard design, 8,300-SF company operation facilities. The action would replace and demolish company operations buildings.
- ◆ **Battalion Operations** - Construct a standard-design, 8,300-SF medium operations facility. Demolition of existing building is planned.
- ◆ **Bold Venture I** - Construct a 34,000-SF administrative facility with general-purpose administrative space, reception, and orientation areas.
- ◆ **Bold Venture II** - Construct an 80,000-SF administrative building for new occupants relocating to Fort Meade.
- ◆ **Bold Venture III** - Construct a 34,000-SF administrative building for new occupants relocating to Fort Meade.
- ◆ **Bold Venture IV** - Construct a 10,000-SF administrative building for new occupants relocating to Fort Meade.
- ◆ **U.S. Army 1st Recruiting Brigade (1RBDE), Army Medical Detachment 1st Brigade, and Baltimore Recruiting Battalion** - Construct a 40,000-SF administrative office building to replace offices in WWII wooden structures that will likely be demolished.

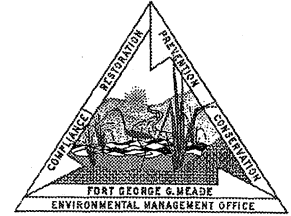


POTENTIAL IMPACTS TO FORT MEADE AND THE SURROUNDING AREA

In April 1999, the U.S. Army published an Environmental Assessment (EA) of the Future Development and Operations at Fort Meade stating that no significant impacts were expected to any environmental or socioeconomic resources with the possible exception of air quality and traffic. The Environmental Impact Statement (EIS) being considered here will conduct more detailed analyses on these and all other potential impacts of the activities (updated to reflect current planning through 2004) described in the Proposed Action (see the Proposed Action information sheet). For more information on the analyses planned for potential air quality and traffic impacts see their respective information sheets.

Although no significant impacts to resources other than air quality and traffic were identified in the EA, potential impacts in the following areas will be analyzed in the EIS:

- ◆ Land use
- ◆ Air quality
- ◆ Water resources
- ◆ Aquatic resources and wetlands
- ◆ Vegetation
- ◆ Wildlife resources
- ◆ Threatened and endangered species
- ◆ Prime and unique farmlands
- ◆ Wild and scenic rivers
- ◆ Cultural resources
- ◆ Hazardous, toxic, and radioactive substances
- ◆ Infrastructure
- ◆ Traffic
- ◆ Socioeconomic conditions
- ◆ Environmental justice
- ◆ Cumulative impacts



AIR QUALITY

In April 1999, the U.S. Army published an Environmental Assessment (EA) for future development and operations at Fort Meade stating that significant impacts to air quality potentially could occur. Potential air quality impacts identified in this EA included temporary impacts from the construction and demolition activities, and permanent impacts from operation of the new facilities, including operation of heating and cooling plants and increased employee traffic. The Environmental Impact Statement (EIS) being considered here will conduct more detailed analyses on the air emissions from the activities (updated to reflect current planning through 2004) described in the Proposed Action (see the Proposed Action information sheet).

As shown in the 1999 EA, Fort Meade is located in Anne Arundel County, which is part of the Baltimore severe nonattainment area for ozone. This means that the cumulative air quality problem in the region exceeds safe levels of ozone, as defined in the U.S. Environmental Protection Agency's (EPA) air quality standards. Conservative analysis of the cumulative effects on air as a result of construction and operation of the projects considered in the EA predicted a significant increase in air emissions from that Proposed Action.

Because Fort Meade is located within the severe nonattainment area, the Proposed Action being considered under the EIS must comply with EPA's General Conformity rule (40 CFR Part 51, Subpart W). The General Conformity rule states that proposed Federal actions must demonstrate conformity with the State Implementation Plan (SIP). The SIP is devised by the State of Maryland and approved by the U.S. EPA to bring areas currently not in compliance with National Ambient Air Quality Standards (NAAQS) back into compliance; thus, Federal actions must not adversely affect the timely attainment and maintenance of NAAQS or emission reduction plans leading to attainment.

The EIS will further investigate the air quality impacts and take appropriate measures to coordinate with the State on this issue.



TRAFFIC

In April 1999, the U.S. Army published an Environmental Assessment (EA) for future development and operations at Fort Meade stating that significant impacts to traffic were likely to occur. The Environmental Impact Statement (EIS) being considered here will conduct more detailed analyses on the potential impacts to traffic of the activities (updated to reflect current planning through 2004) described in the Proposed Action (see the Proposed Action information sheet).

Fort Meade is located in the western portion of Anne Arundel County and comprises approximately 9,000 acres. Three major highways provide access around the perimeter of the installation as follows (see maps):

- ◆ The Baltimore-Washington Parkway (MD 295) is located just west of Fort Meade and provides north/south access between Baltimore and Washington, D.C. No heavy trucks are permitted on the Parkway south of MD 175.
- ◆ MD 175 borders the north and east of Fort Meade and provides for east/west travel between Columbia and Odenton. MD 175 provides access to other major roadways such as MD 32, the Baltimore-Washington Parkway, I-95, and US 29. MD 175 has a varying width that provides a two-lane roadway from MD 175 to Reece Road, then widens to a minimum four-lane roadway from Reece road to MD 32.
- ◆ MD 32 borders the southern portion of Fort Meade and provides for east/west travel from I-97, east of Odenton, to Howard County. In the vicinity of Fort Meade, MD 32 has a four-lane cross section and primarily functions as a freeway. However, at-grade signalized intersections are provided along the Fort Meade boundary at Mapes Road and MD 198. Interchanges are provided along MD 32, at both MD 175 and the Baltimore-Washington Parkway.

The major roadways providing access through Fort Meade include Rockenbach Road (which extends from MD 175 southerly to MD 32 through Fort Meade) and Mapes Road (which traverses east/west through Fort Meade between MD 175 and MD 32). Other State roadways providing access to the Fort Meade area include Ridge Road (MD 713), Reece Road (MD 174), and Laurel-Fort Meade Road (MD 198).

Direct access to Fort Meade is provided by several intersections along both MD 175 and MD 32. Traveling east along MD 175 from the Baltimore-Washington Parkway, access to Fort Meade is provided by Rockenbach Road, Reece Road, and Llewellyn Avenue. Access is provided on the southern boundary of Fort Meade by MD 32 at Emory Road (near the NSA facility) and from Mapes Road.

(over)

The Proposed Action for this EIS includes 11 potential projects. Six of these are clustered along MD 175, near the intersection with Mapes Road and Llewellyn Avenue. The other five potential developments are located in the southwest portion of Fort Meade, south of Mapes Road in the vicinity of Zimborski Avenue and Taylor Avenue.

The impacts of the Proposed Action will be evaluated in more detail in the EIS based upon anticipated effects of the identified key intersections in the study area. To support this analysis, proposed road improvements will be reviewed that may effect the key intersections in the study area. Information from the State Highway Administration will be reviewed to identify future road improvements for the short- and long-term.

Place
Stamp
Here

US Army Corps of Engineers, Baltimore District
ATTN: CENAB-PL-E / Karanikolis
PO Box 1715
Baltimore, Maryland 21203-1715

Name: _____
Organization (If Any): _____

Address: _____

Phone Number: _____

Comment Card for Proposed Future Development and Operations at Ft. Meade, Maryland (EIS) 20 Apr 00 meeting.

Comments: _____

Directions:

1. Fill in the appropriate blanks for name, address, and phone number.
 2. List any organization(s) your comments represent.
 3. Write any additional comments in the space provided.
 4. Place in the comment box, or stamp and mail the card.
 5. Please return all comments within the next two weeks.
- Thank you for your participation!**

APPENDIX D

PUBLIC MEETING MINUTES

(Meeting to be held during public review period for the DEIS)

APPENDIX E
FORT MEADE PLANT AND ANIMAL SPECIES LIST

List of Plants Collected at Fort Meade, 1993-1994

? - confirmation should be pursued

Equisetaceae

Equisetum arvense
Equisetum pratense

Lycopodiaceae

Lycopodium obscurum
Lycopodium clavatum

Ophioglossaceae

Botrychium dissectum
Botrychium virginianum

Osmundaceae

Osmunda cinnamomea
Osmunda regalis

Polypodiaceae

Athyrium felix-femina
Dennstaedtia punctilobula
Onoclea sensibilis
Pteridium aquilinum
Thelypteris noveboracensis
Woodwardia areolata
Woodwardia virginica

Aspleniaceae

Asplenium platyneuron

Dryopteridaceae

Dryopteris novaboracensis

Typhaceae

Typha angustifolia
Typha latifolia

Zosteraceae

Potamogeton crispus

Sparganiaceae

Sparganium americanum

Alismataceae

Alisma plantago-aquatica
Sagittaria graminea
Sagittaria latifolia

Hydrocharitaceae

Elodea canadensis

Poaceae

Agrostis hymelis
Agrostis perennans
Aira caryophylla
Andropogon virginicus
Bromus sterilis
Calamagrostis cinnoides
Dactylis glomerata
Danthonia sericea
Dichanthelium sp.
Echinochloa walteri
Echinochloa sp.
Eragrostis capillaris
Elymus virginicus
Eragrostis sp.
Festuca elatior
Festuca myuros
Festuca obtusa
Festuca rubra
Glyceria striata
Glyceria obtusa
Holcus lanatus
Hordeum pusillum
Hordeum vulgare
Leersia oryzoides
Leersia virginica
Microstegium vimineum

Muhlenbergia frondosa
Panicum clandestinum
Panicum colubianum
Panicum depauperatum
Panicum dichotomiflorum
Panicum dichotomum
Panicum sp.(ensifolium?)
Panicum leucothrix
Panicum scoparium
Phragmites australis
Poa bulbosa
Poa compressa
Poa pratensis
Setaria faberii
Triodia flava
Uniola laxa
Vulpia octoflora

Cyperaceae

Bulbostylus capillaris
Carex albolutescens
Carex amphibola
Carex atlantica
Carex blanda
Carex canescens
Carex complanata var. hirsutella
Carex crinita
Carex debilis
Carex emmonsii
Carex sp.(festucea?)
Carex folliculata
Carex frankii
Carex hirsutella
Carex sp.(intumescens/grayi?)
Carex laevivaginata
Carex leavenworthii
Carex lupulina
Carex lurida
Carex nigromarginata
Carex pensylvanica
Carex rosea
Carex scoparia
Carex seorsa
Carex stipata
Carex straminea
Carex stricta

Cyperaceae cont'd

Carex swanii
 Carex tenuifolia
 Carex tonsa
 Carex tribuloides
 Carex trisperma
 Carex trisperma var. billingsii
 Carex umbellata
 Carex vulpinoidea
 Carex vulpinoidea var. ambigua
 Carex sp.(Montanae?)
 Cyperus esculentus
 Cyperus erythrorhizos
 Cyperus grayi
 Cyperus ovularis
 Cyperus retrorsus
 Cyperus strigosus
 Eleocharis ovata
 Eleocharis quadrangulata
 Eleocharis tenuis
 Scirpus atrovirens
 Scirpus cyperinus
 Scirpus validus

Araceae

Arisaema triphyllum
 Peltandra virginica
 Symplocarpus foetidus

Xyridaceae

Xyris caroliniana

Commelinaceae

Commelina communis
 Commelina virginica

Pontederiaceae

Pontederia cordata

Juncaceae

Juncus acuminatus
 Juncus candensis
 Juncus effusus

Juncus sp.(megacephalus?)
 Juncus sp.(polycephalus?)
 Juncus scirpoides
 Juncus secundus
 Juncus tenuis
 Juncus tenuis var.dichotomus
 Juncus sp.
 Luzula bulbosa
 Luzula multiflora

Liliaceae

Allium vineale
 Mediola virginiana
 Ornithogalum umbellatum
 Smilacina racemosa
 Smilax rotundifolia
 Smilax glauca

Dioscoreaceae

Dioscorea villosa

Amaryllidaceae

Hypoxis hirsuta

Iridaceae

Iris versicolor
 Sisyrinchium graminoides

Orchidaceae

Cypripedium acaule
 Isotria verticillata

Saururaceae

Saururus cernuus

Cannabinaceae

Humulus japonicus

Urticaceae

Boehmeria cylindrica
 Pilea pumila
 Urtica dioica

Santalaceae

Comandra umbellata

Aristolochiaceae

Asarum canadense

Polygonaceae

Polygonum arifolium
 Polygonum cespitosum
 Polygonum hydropiperoides
 Polygonum pensylvanicum
 Polygonum perfoliatum
 Polygonum punctatum
 Polygonum sagittatum
 Rumex acetosella
 Rumex crispus
 Rumex obtusifolia
 Tovara virginiana

Phytolaccaceae

Phytolacca americana

Caryophyllaceae

Arenaria serpyllifolia
 Cerastium arvense
 Cerastium semidecandrum
 Cerastium vulgatum
 Cerastium viscosum
 Dianthus armeria
 Dianthus barbatus
 Scleranthus annuus
 Silene stellata
 Spargula arvensis
 Stellaria graminea
 Stellaria longifolia
 Stellaria media

Nymphaeaceae

Nymphaea odorata

Ranunculaceae

Caltha palustris
Cimicifuga racemosa
Clematis sp.
Ranunculus abortivus
Ranunculus scleratus
Thalictrum sp.

Berberidaceae

Berberis japonica
Podophyllum peltatum

Fumariaceae

Cordyalis flavula

Brassicaceae

Arabidopsis thaliana
Alliaria officinalis
Barbarea verna
Barbarea vulgaris
Brassica rapa
Cardamine bulbosa
Cardamine hirsuta
Draba verna
Hesperis matronalis
Lepidium campestre
Lepidium virginicum
Teesdalia nudicaulis

Rosaceae

Agrimonia parviflora
Amelanchier canadensis
Aronia arbutifolia
Aronia prunifolia
Cotoneaster sp.
Duchesnea indica
Geum canadense
Geum virginianum
Fragaria virginiana
Potentilla argentea

Potentilla arguta
Potentilla recta
Prunus serotina
Pyrus communis
Rosa multiflora
Rubus argutus
Rubus hispidus
Sanguisorba minor

Fabaceae

Amphicarpa bracteata
Baptisia tinctoria
Cercis canadensis
Coronilla varia
Desmodium sp.(marilandicum?)
Desmodium nudiflorum
Desmodium paniculatum
Gleditsia triacanthos
Lespedeza procumbens
Lespedeza repens
Lespedeza stuevei
Lespedeza virginica(? hybrid)
Medicago lupulina
Melilotus alba
Melilotus officinalis
Strophostyles umbellata
Trifolium arvense
Trifolium pratense
Vicia villosa

Linaceae

Linum medium

Oxalidaceae

Oxalis stricta

Geraniaceae

Geranium carolinianum
Geranium dissectum

Euphorbiaceae

Euphorbia corollata
Euphorbia ipecacuanhae

Callitrichaceae

Callitriche heterophylla

Limnathaceae

Floerkea proserpinacoides

Balsaminaceae

Impatiens capensis
Impatiens pallida

Clusiaceae

Hypericum gentianoides
Hypericum mutillum
Hypericum sp.(perforatum?)
Hypericum virginicum
Robinia psuedo-acacia

Cistaceae

Helianthemum canadense
Helianthemum propinquum
Lechea minor
Lechea racemulosa

Violaceae

Viola arvensis
Viola blanda
Viola cucullata
Viola kitaibeliana
Viola papilionacea
Viola primulifolia

Lythraceae

Lythrum salicaria

Melastomataceae

Rhexia virginica

Onograceae

Epilobium sp.
Ludwigia alternifolia
Ludwigia palustris
Oenothera perennis

Haloragaceae

Myriophyllum aquaticum

Umbelliferae

Cicuta maculata
Daucus carota

Pyrolaceae

Chimaphila maculata
Monotropa uniflora

Primulaceae

Anagallis arvensis
Lysimachia quadrifolia
Lysimachia ciliata
Lysimachia nummularia

Apocynaceae

Apocynum cannabinum

Asclepiadaceae

Asclepias incarnata
Asclepias tuberosa
Asclepias syriaca

Convolvulaceae

Cuscuta gronovii

Hydrophyllaceae

Hydrophyllum virginianum

Boraginaceae

Lithospermum arvense
Myosotis arvensis
Myosotis stricta

Verbenaceae

Verbena hastata
Verbena simplex
Verbena stricta
Verbena urticifolia

Lamiaceae

Glechoma herderacea
Lamium amplexicaule
Lamium purpureum
Lycopus americanus
Lycopus virginicus
Mentha spicata
Perilla frutescens
Scutellaria integrifolia
Trichostema dichotomum

Solanaceae

Solanum carolinense

Scrophulariaceae

Linaria canadensis
Lindernia dubia
Melampyrum lineare
Mimulus alatus
Mimulus ringens
Scrophularia marilandica
Verbascum blatteria
Verbascum thapsus
Veronica sp.
Veronica officinalis

Orobanchaceae

Epifagus virginiana

Lentibulariaceae

Utricularia sp.

Plantaginaceae

Plantago lanceolata
Plantago virginica

Rubiaceae

Cephalanthus occidentalis
Diodia teres
Galium aparine
Galium triflorum
Mitchella repens

Dipsacaceae

Dipsacus sylvestris

Campanulaceae

Echinocystis lobata
Lobelia cardinalis
Lobelia siphilitica
Triodanis perfoliata

Asteraceae

Achillea millefolium
Ambrosia trifida
Ambrosia artemisiifolia
Antennaria neglecta
Aster cordifolius
Aster divaricata
Aster ericoides
Aster novae-angliae
Aster patens
Aster pilosus
Aster puniceus
Aster vimineus
Bidens frondosa
Bidens sp.
Centurea maculosa
Chrysanthemum leucanthemum
Cichorium intybus
Cirsium arvense
Cirsium vulgare
Conyza canadensis
Eclipta alba
Erigeron annuus

Asteraceae cont'd

Eupatorium alba
 Eupatorium altissimum
 Eupatorium purpureum
 Eupatorium rotundifolium
 Eupatorium serotinum
 Eupatorium hyssopifolium
 Euthamia graminifolia
 Gnaphalium obtusifolium
 Helianthus divaricatus
 Hieracium gronovii
 Hypochaeris radicata
 Krigia virginica
 Lactuca canadensis
 Rudbeckia hirta
 Senecio anonymous
 Senecio sp.
 Solidago altissima
 Solidago canadensis
 Solidago sp.(erecta?)
 Solidago nemoralis
 Solidago odora
 Solidago sp.(puberula?)
 Solidago rugosa
 Taraxicum officinale
 Tussilago farfara
 Vernonia noveboracensis

Pinacea

Juniperus virginiana
 Pinus echinata
 Pinus resinosa
 Pinus strobus
 Pinus taeda
 Pinus virginiana

Salicaceae

Populus grandidentata
 Salix discolor
 Salix humilis
 Salix nigra

Myricaceae

Myrica pensylvanica

Juglandaceae

Juglans nigra
 Carya cordiformis
 Carya tomentosa

Betulaceae

Alnus serrulata
 Betula nigra
 Carpinus caroliniana
 Corylus americana

Fagaceae

Castanea dentata
 Castanea pumila
 Fagus grandiflora
 Quercus alba
 Quercus bicolor
 Quercus coccinea
 Quercus falcata
 Quercus marilandica
 Quercus palustris
 Quercus phellos
 Quercus rubra
 Quercus velutina

Ulmaceae

Ulmus rubra

Moraceae

Morus rubra

Magnoliaceae

Magnolia virginica
 Liriodendron tulipifera

Annonaceae

Asimina triloba

Lauraceae

Lindera benzoin
 Sassafras albidum

Saxifagaceae

Itea virginica

Hamamelidaceae

Hamamelis virginiana
 Liquidambar styracflua

Platanaceae

Platanus occidentalis

Simaroubaceae

Ailanthus altissima

Anacardiaceae

Rhus copallina
 Rhus glabra
 Rhus typhina
 Toxicodendron radicans

Aquifoliaceae

Ilex laevigata
 Ilex opaca
 Ilex verticillata

Celastraceae

Celastrus scandens
 Euonymus americanus

Aceraceae

Acer negundo
 Acer platanoides
 Acer rubrum
 Acer saccharinum

Vitaceae

Parthenocissus quinquefolia
Vitis aestivalis
Vitis vulpina

Nyssaceae

Nyssa sylvatica

Araliaceae

Aralia nudicaulis
Aralia spinosa

Cornaceae

Cornus amomum
Cornus florida

Clethraceae

Clethra alnifolia

Ericaceae

Gaylussacia baccata
Gaylussacia frondosa
Kalmia angustifolia
Kalmia latifolia
Leucothoe racemosa
Lyonia ligustrina
Lyonia mariana
Rhododendron atlanticum
Rhododendron periclymenoides
Rhododendron viscosum
Vaccinium angustifolium
Vaccinium corymbosum

Ebenaceae

Diospyros virginiana

Oleaceae

Chionanthus virginicus
Fraxinus pennsylvanica

Caprifoliaceae

Lonicera japonica
Sambucus canadensis
Viburnum dentatum
Viburnum nudum
Viburnum prunifolium

List of Bird Species Observed or Heard at Fort George G. Meade

September-October 1993, April-August 1994

- Butorides striatus - Green heron
Ardea herodias - Great blue heron
Branta canadensis - Canada goose
Anas platyrhynchos - Mallard
Aix sponsa - Wood duck
Cathartes aura - Turkey vulture
Coragyps atratus - Black vulture
Accipiter striatus - Sharp-shinned hawk
Buteo jamaicensis - Red-tailed hawk
Buteo lineatus - Red-shouldered hawk
Buteo platypterus - Broad-winged hawk
Haliaeetus leucocephalus - Bald eagle
Pandion haliaetus - Osprey
Falco sparverius - American kestrel
Charadrius vociferus - Killdeer
Philohela minor - American woodcock
Actitis macularia - Spotted sandpiper
Larus delawarensis - Ring-billed gull
Zenaidura macroura - Mourning dove
Columba livia - Rock dove
Coccyzus americanus - Yellow-billed cuckoo
Bubo virginianus - Great horned owl
Chaetura pelagica - Chimney swift
Megaceryle alcyon - Belted kingfisher
Colaptes auratus - Common flicker
Dryocopus pileatus - Pileated woodpecker
Melanerpes carolinus - Red-bellied woodpecker
Picoides villosus - Hairy woodpecker
Picoides pubescens - Downy woodpecker
Tyrannus tyrannus - Eastern kingbird
Myiarchus crinitus - Great crested flycatcher
Sayornis phoebe - Eastern phoebe
Empidonax virescens - Acadian flycatcher
Contopus virens - Eastern pewee
Hirundo rustica - Barn swallow
Stelgidopteryx ruficollis - Rough-winged swallow
Cyanocitta cristata - Blue jay
Corvus brachyrhynchos - American crow
Parus carolinensis - Carolina chickadee
Parus bicolor - Tufted titmouse
Sitta carolinensis - White breasted nuthatch
Certhia familiaris - Brown creeper
Thryothorus ludovicianus - Carolina wren
Mimus polyglottos - Northern mockingbird
Dumetella carolinensis - Gray catbird
Toxostoma rufum - Brown thrasher
Turdus migratorius - American robin
Hylocichla mustelina - Wood thrush
Sialia sialis - Eastern bluebird
Poliotilta caerulea - Blue-gray gnatcatcher
Sturnus vulgaris - European starling
Vireo griseus - White-eyed vireo
Vireo olivaceus - Red-eyed vireo
Mniotilta varia - Black and white warbler
Parula americana - Northern parula warbler
Dendroica petechia - Yellow warbler
Dendroica pinus - Pine warbler
Seiurus aurocapillus - Ovenbird
Geothlypis trichas - Common yellowthroat
Icteria virens - Yellow breasted chat
Passer domesticus - House sparrow
Sturnella magna - Eastern meadowlark
Agelaius phoeniceus - Red-winged blackbird
Icterus spurius - Orchard oriole
Quiscalus quiscula - Common grackle
Molothrus ater - Brown-headed cowbird
Piranga olivacea - Scarlet tanager
Cardinalis cardinalis - Northern cardinal
Passerina cyanea - Indigo bunting
Carduelis flammea - House finch
Carduelis tristis - American goldfinch
Spizella passerina - Chipping sparrow
Melospiza georgiana - Swamp sparrow
Melospiza melodia - Song sparrow
Pipilo erythrophthalmus - Rufous-sided towhee

Fish Identified at Fort George G. Meade 1992 - 1994

Alosa aestivalis - Blueback herring
Anguilla rostrata - American eel
Catostomus commersoni - White sucker
Cyprinella analostana - Satinfin shiner
Dorosoma cepedianum - Gizzard shad
Enneacanthus gloriosus - Bluespotted sunfish
Erimyzon oblongus - Creek chubsucker
Etheostoma olmstedii - Tessellated darter
Etheostoma vitreum - Glassy darter
Fundulus heteroclitus - Mummichog
Exoglossum maxillingua - Cutlips minnow
Hypentelium nigricans - Northern hogsucker
Lampetra aepyptera - Least brook lamprey
Lampetra appendix - American brook lamprey
Lepomis auritus - Redbreast sunfish
Lepomis gibbosus - Pumpkinseed
Lepomis macrochirus - Bluegill
Micropterus dolomieu - Smallmouth bass
Micropterus salmoides - Largemouth bass
Notropis amoenus - Comely shiner
Notropis procne - Swallowtail shiner
Percina peltata - Shield darter
Rhinichthys atratulus - Blacknose dace
Rhinichthys cataractae - Longnose dace
Semotilus corporalis - Fallfish
Umbra pygmaea - Eastern mudminnow

APPENDIX F
AIR EMISSIONS

APPENDIX F-1
EMISSIONS FROM CONSTRUCTION AND
DEMOLITION VEHICLES

Estimated Emissions from Construction Vehicles for Proposed Action Projects

Proposed Action	Bldg Area (ft ²)	Estimated Emissions (tpy)				
		NO _x	VOC	CO	SO ₂	PM
Mil. Ent. Pro. Stn.	31,179	1.45	0.09	0.60	0.14	0.09
Brrcks Rep. Ph. I	108,540	5.04	0.33	2.07	0.48	0.32
Brrcks Rep. Ph. II	108,540	5.04	0.33	2.07	0.48	0.32
Bold Ven. Init. I	34,000	1.58	0.10	0.65	0.15	0.10
Bold Ven. Init. II	80,000	3.72	0.24	1.53	0.35	0.24
Dining Facility	24,456	1.14	0.07	0.47	0.11	0.07
Company HQ	8,316	0.39	0.03	0.16	0.04	0.02
Battalion Ops.	8,316	0.39	0.03	0.16	0.04	0.02
Bold Ven. Init. III	34,000	1.58	0.10	0.65	0.15	0.10
Bold Ven. Init. IV	10,000	0.46	0.03	0.19	0.04	0.03
USA 1st Recr. Brg.	40,114	1.86	0.12	0.77	0.18	0.12

Notes:

1. Conservatively assumed that it takes one bulldozer, one excavator, one loader, and two dump trucks four days to grade one acre; therefore, a total of approximately 40 days are needed to complete grading.
2. Assumed that a crane and a forklift are needed to move/set steel framework and cinderblocks for 100 working days.
3. Emissions for each proposed action were calculated by multiplying the estimated DSS project emission rate (BRAC, 1995) for each pollutant by the ratio of the building area for each action to the DSS building area.

Estimated Emissions from Demolition Vehicles for Proposed Action Projects

Proposed Action	Demolition Area (ft ²)	Estimated Emissions (tpy)				
		NO _x	VOC	CO	SO ₂	PM
Mil. Ent. Pro. Stn.	ND	0	0	0	0	0
Brrcks Rep. Ph. I	115,500	0.41	0.03	0.17	0.04	0.02
Brrcks Rep. Ph. II	115,500	0.41	0.03	0.17	0.04	0.02
Bold Ven. Init. I	ND	0	0	0	0	0
Bold Ven. Init. II	ND	0	0	0	0	0
Dining Facility	25,000	0.20	0.01	0.08	0.02	0.01
Company HQ	8,000	0.20	0.01	0.08	0.02	0.01
Battalion Ops.	9,278	0.20	0.01	0.08	0.02	0.01
Bold Ven. Init. III	ND	0	0	0	0	0
Bold Ven. Init. IV	ND	0	0	0	0	0
USA 1st Recr. Brg.	12,630	0.20	0.01	0.08	0.02	0.01

Notes:

1. Demolition operation includes two bulldozers, one loader, and two dump trucks for one week for demolition projects less than 50,000 ft², and two weeks for demolition projects greater than 50,000 ft².
2. ND - No demolition activities assumed for these projects.

Estimated Emissions from Construction Vehicles for Alternative Action Projects

Proposed Action	Bldg Area (ft ²)	Estimated Emissions (tpy)				
		NO _x	VOC	CO	SO ₂	PM
Mil. Ent. Pro. Stn.	31,179	1.45	0.09	0.60	0.14	0.09
Brrcks Rep. Ph. I	108,540	5.04	0.33	2.07	0.48	0.32
Brrcks Rep. Ph. II	108,540	5.04	0.33	2.07	0.48	0.32
Bold Ven. Init. I	34,000	1.58	0.10	0.65	0.15	0.10
Bold Ven. Init. II	80,000	3.72	0.24	1.53	0.35	0.24
Dining Facility	24,456	1.14	0.07	0.47	0.11	0.07
Company HQ	8,316	0.39	0.03	0.16	0.04	0.02
Battalion Ops.	8,316	0.39	0.03	0.16	0.04	0.02
USA 1st Recr. Brg.	40,114	1.86	0.12	0.77	0.18	0.12

Notes:

1. Conservatively assumed that it takes one bulldozer, one excavator, one loader, and two dump trucks four days to grade one acre; therefore, a total of approximately 40 days are needed to complete grading.
2. Assumed that a crane and a forklift are needed to move/set steel framework and cinderblocks for 100 working days.
3. Emissions for each proposed action were calculated by multiplying the estimated DSS project emission rate (BRAC, 1995) for each pollutant by the ratio of the building area for each action to the DSS building area.

Estimated Emissions from Demolition Vehicles for Alternative Action Projects

Proposed Action	Demolition Area (ft ²)	Estimated Emissions (tpy)				
		NO _x	VOC	CO	SO ₂	PM
Mil. Ent. Pro. Stn.	ND	0	0	0	0	0
Brrcks Rep. Ph. I	115,500	0.41	0.03	0.17	0.04	0.02
Brrcks Rep. Ph. II	115,500	0.41	0.03	0.17	0.04	0.02
Bold Ven. Init. I	ND	0	0	0	0	0
Bold Ven. Init. II	ND	0	0	0	0	0
Dining Facility	25,000	0.20	0.01	0.08	0.02	0.01
Company HQ	8,000	0.20	0.01	0.08	0.02	0.01
Battalion Ops.	9,278	0.20	0.01	0.08	0.02	0.01
USA 1st Recr. Brg.	12,630	0.20	0.01	0.08	0.02	0.01

Notes:

1. Demolition operation includes two bulldozers, one loader, and two dump trucks for one week for demolition projects less than 50,000 ft², and two weeks for demolition projects greater than 50,000 ft².
2. ND - No demolition activities assumed for these projects.

Estimated Emissions from Construction Vehicles for Other Actions

Proposed Action	Bldg Area (ft ²)	Estimated Emissions (tpy)				
		NO _x	VOC	CO	SO ₂	PM
Information Systems Software Center (ISSC)	NC	0	0	0	0	0
Defense Security Services (DSS)	75,654	3.52	0.23	1.45	0.33	0.22
U.S. Army Reserve Center (USARC)	143,857	6.69	0.44	2.75	0.63	0.43
Library of Congress Storage facility	24,000	1.12	0.07	0.46	0.11	0.07
Anne Arundel Community College Extension Campus	110,050	5.11	0.33	2.10	0.48	0.33
Family Travel Camp	9,480	0.44	0.03	0.18	0.04	0.03
CIDC	6,400	0.30	0.02	0.12	0.03	0.02

Notes:

1. Conservatively assumed that it takes one bulldozer, one excavator, one loader, and two dump trucks four days to grade one acre; therefore, a total of approximately 40 days are needed to complete grading.
2. Assumed that a crane and a forklift are needed to move/set steel framework and cinderblocks for 100 working days.
3. Emissions for each proposed action were calculated by multiplying the estimated DSS project emission rate (BRAC, 1995) for each pollutant by the ratio of the building area for each action to the DSS building area.
4. NC - Renovation project; no exterior construction.

Estimated Emissions from Demolition Vehicles for Other Actions

Proposed Action	Demolition Area (ft ²)	Estimated Emissions (tpy)				
		NO _x	VOC	CO	SO ₂	PM
Information Systems Software Center (ISSC)	ND	0	0	0	0	0
Defense Security Services (DSS)	ND	0	0	0	0	0
U.S. Army Reserve Center (USARC)	ND	0	0	0	0	0
Library of Congress Storage facility	ND	0	0	0	0	0
Anne Arundel Community College Extension Campus	ND	0	0	0	0	0
Family Travel Camp	ND	0	0	0	0	0
CIDC	ND	0	0	0	0	0

Notes:

1. Demolition operation includes two bulldozers, one loader, and two dump trucks for one week for demolition projects less than 50,000 ft², and two weeks for demolition projects greater than 50,000 ft².
2. ND - No demolition activities assumed for these projects.

Estimated Emissions from Demolition/Construction Vehicles

The following emission factors (lb/hr) are from Volume II of AP-42, Table II-7.1, for heavy-duty diesel-powered construction equipment.

<u>Equipment</u>	<u>NO_x</u>	<u>VOC</u>	<u>CO</u>	<u>SO₂</u>	<u>PM</u>
Bulldozer	4.166	0.192	1.794	0.348	0.165
Loader	1.89	0.25	0.572	0.182	0.172
Excavator	1.691	0.152	0.675	0.143	0.139
Truck	4.166	0.192	1.794	0.454	0.256
Crane	1.691	0.152	0.675	0.143	0.139
Forklift	1.691	0.152	0.675	0.143	0.139

Demolition Operations

For demolition areas less than 50,000 ft²:

5 days/yr x

8 hrs/day

=

40 hrs/yr

For demolition areas greater than 50,000 ft²:

10 days/yr x

8 hrs/day

=

80 hrs/yr

Estimated Emissions (tpy)

<u>Equipment</u>	<u>NO_x</u>	<u>VOC</u>	<u>CO</u>	<u>SO₂</u>	<u>PM</u>
2 Bulldozers	0.08	0.004	0.04	0.007	0.003
1 Loader	0.04	0.005	0.01	0.004	0.003
2 Dump Trucks	0.08	0.004	0.04	0.009	0.005
5-Day Total:	0.20	0.01	0.08	0.02	0.01
10-Day Total:	0.41	0.03	0.17	0.04	0.02

Construction Operations (Data for the DSS project was used as the basis for calculating emissions for the construction projects)

Grading (see Notes below)

40 days/yr x 8 hrs/day = 320 hrs/yr

<u>Equipment</u>	<u>Estimated Emissions (tpy)</u>					
	<u>NO_x</u>	<u>VOC</u>	<u>CO</u>	<u>SO₂</u>	<u>PM</u>	
Bulldozer	0.67	0.03	0.29	0.06		0.03
Loader	0.30	0.04	0.09	0.03		0.03
Excavator	0.27	0.02	0.11	0.02		0.02
2 Dump Trucks	1.33	0.06	0.57	0.15		0.08
Total:	2.57	0.16	1.06	0.25		0.16

Building (Exterior) (see Notes below)

100 days/yr x 8 hrs/day = 800 hrs/yr

<u>Equipment</u>	<u>Estimated Emissions (tpy)</u>					
	<u>NO_x</u>	<u>VOC</u>	<u>CO</u>	<u>SO₂</u>	<u>PM</u>	
Crane	0.68	0.06	0.27	0.06		0.06
Forklift	0.27	0.01	0.11	0.02		0.01
Total:	0.94	0.07	0.38	0.08		0.07
Grdg+Bldg Total:	3.52	0.23	1.45	0.33		0.22

Notes:

1. Assumed that the area graded for the DSS project is 9 acres (as given in Appendix C of the BRAC 95 document)
2. Conservatively assumed that it takes one bulldozer, one excavator, one loader, and two dump trucks four days to grade one acre; therefore, a total of approximately 40 days needed to complete grading
3. Assumed that a crane is needed to move/set steel framework for 100 working days
4. Assumed that a forklift is needed to move masonry materials (cinderblock, etc.) for 100 working days
5. Assumed that a work day consists of 8 hours
6. For AP-42 bulldozer emission factors, assumed a wheeled bulldozer
7. For AP-42 loader emission factors, assumed wheeled loader
8. For AP-42 excavator, crane, and forklift emission factors, assumed miscellaneous equipment category
9. Emissions for each proposed action were calculated by multiplying the estimated DSS project emission rate (BRAC, 1995) for each pollutant by the ratio of the building area for each action to the DSS building area.
10. DSS building area is 75,654 ft².

APPENDIX F-2
FUGITIVE PM EMISSIONS FROM
CONSTRUCTION/DEMOLITION ACTIVITIES

**Estimated Fugitive PM Emissions Associated with
Demolition/Construction of Proposed Action Projects**

Proposed Action	Demolition Area (ft ²)	New Bldg Area (ft ²)	PM Emissions (tpy)			
			Demolition		Construction	
			Dismantling	Debris Loading	Earth Moving	Wind Erosion
Mil. Ent. Pro. Stn.	ND	31,179	0	0	2.58	0.39
Brrcks Rep. Ph. I	115,500	108,540	0.003	0.05	8.97	1.37
Brrcks Rep. Ph. II	115,500	108,540	0.003	0.05	8.97	1.37
Bold Ven. Init. I	ND	34,000	0	0	2.81	0.43
Bold Ven. Init. II	ND	80,000	0	0	6.61	1.01
Dining Facility	25,000	24,456	0.001	0.01	2.02	0.31
Company HQ	8,000	8,316	0.0002	0.004	0.69	0.11
Battalion Ops.	9,278	8,316	0.0002	0.004	0.69	0.11
Bold Ven. Init. III	ND	34,000	0	0	2.81	0.43
Bold Ven. Init. IV	ND	10,000	0	0	0.83	0.13
USA 1st Recr. Brg.	12,630	40,114	0.0003	0.006	3.32	0.51

Notes:

1. Dismantling and debris loading PM emissions determined using emission factors from U.S. EPA Fugitive Dust Background Document (EPA 1992).
2. Earth moving and wind erosion PM emissions determined using emission factors from U.S. EPA, AP-42, Section 13.2.3.
3. ND - No demolition activities assumed for these projects.

**Estimated Fugitive PM Emissions Associated with
Demolition/Construction of Alternative Action Projects**

Proposed Action	Demolition Area (ft ²)	New Bldg Area (ft ²)	PM Emissions (tpy)			
			Demolition		Construction	
			Dismantling	Debris Loading	Earth Moving	Wind Erosion
Mil. Ent. Pro. Stn.	ND	31,179	0	0	2.58	0.39
Brrcks Rep. Ph. I	115,500	108,540	0.003	0.05	8.97	1.37
Brrcks Rep. Ph. II	115,500	108,540	0.003	0.05	8.97	1.37
Bold Ven. Init. I	ND	34,000	0	0	2.81	0.43
Bold Ven. Init. II	ND	80,000	0	0	6.61	1.01
Dining Facility	25,000	24,456	0.001	0.01	2.02	0.31
Company HQ	8,000	8,316	0.0002	0.004	0.69	0.11
Battalion Ops.	9,278	8,316	0.0002	0.004	0.69	0.11
USA 1st Recr. Brg.	12,630	40,114	0.0003	0.006	3.32	0.51

Notes:

1. Dismantling and debris loading PM emissions determined using emission factors from U.S. EPA Fugitive Dust Background Document (EPA 1992).
2. Earth moving and wind erosion PM emissions determined using emission factors from U.S. EPA, AP-42, Section 13.2.3.
3. ND - No demolition activities assumed for these projects.

**Estimated Fugitive PM Emissions Associated with
Demolition/Construction of Other Actions**

Proposed Action	Demolition Area (ft ²)	New Bldg Area (ft ²)	PM Emissions (tpy)			
			Demolition		Construction	
			Dismantling	Debris Loading	Earth Moving	Wind Erosion
Information Systems Software Center (ISSC)	ND	NC	0	0	0	0
Defense Security Services (DSS)	ND	75,654	0	0	6.25	0.96
U.S. Army Reserve Center (USARC)	ND	143,857	0	0	11.89	1.82
Library of Congress Storage facility	ND	24,000	0	0	1.98	0.30
Anne Arundel Community College Extension Campus	ND	110,050	0	0	9.10	1.39
Family Travel Camp	ND	9,480	0	0	0.78	0.12
CIDC	ND	6,400	0	0	0.53	0.08

Notes:

1. Dismantling and debris loading PM emissions determined using emission factors from U.S. EPA Fugitive Dust Background Document (EPA 1992).
2. Earth moving and wind erosion PM emissions determined using emission factors from U.S. EPA, AP-42, Section 13.2.3.
3. NC - Renovation only, no exterior construction activities.
4. ND - No demolition activities assumed for these projects.

EXAMPLE CALCULATIONS FOR BARRACKS REPLACEMENT PHASE I

Construction Emissions

Assumptions

Building Size: 108,540 ft²
 Earth Moving
 Emission Factor: 1.2 ton/acre/month (from AP-42, Section 13.2.3.3)
 Control Efficiency: 85%
 Wind Erosion
 Emission Factor: 0.11 ton/acre/month
 Control Efficiency: 75%
 Construction Area: 5 times size of building size
 Time of Construction: 4 months (based on DSS project)

$$\text{Construction area: } 108,540 \text{ ft} \times 0.000023 \text{ acre/ft} \times 5 = 12.5 \text{ acres}$$

Annual Emission Estimate

Earth Moving: 8.97 tpy
 Wind Erosion: 1.37 tpy

Demolition Emissions

Assumptions

Demolition Area: 115,500 ft²
 Dismantling Emission
 Factor: 0.00025 kg/m²
 Debris Loading
 Emission Factor: 0.0046 kg/m²

$$115,500 \text{ ft}^2 \times 0.092903 \text{ m}^2/\text{ft}^2 = 10,730 \text{ m}^2$$

Annual Emission Estimate

Dismantling: 2.68 kg/yr x 0.0011023 t/kg = 0.0030 tpy
 Debris Loading: 49.36 kg/yr x 0.0011023 t/kg = 0.0544 tpy

APPENDIX F-3
EMISSIONS FROM NATURAL GAS-FIRED BOILERS

Estimated Annual Emissions from New Natural Gas-Fired Boilers for Proposed Action Projects

Proposed Action	Estimated Gas Use (ft ³)	PM		SO ₂		NO _x		CO		VOC		Lead	
		lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy
Mil. Ent. Pro. Stn.	1,714,062	13.03	0.0065	1.03	0.0005	171.41	0.09	143.98	0.07	9.43	0.0047	0.0009	0.000000
Brrcks Rep. Ph. I	5,966,975	45.35	0.0227	3.58	0.0018	596.70	0.30	501.23	0.25	32.82	0.0164	0.0030	0.000001
Brrcks Rep. Ph. II	5,966,975	45.35	0.0227	3.58	0.0018	596.70	0.30	501.23	0.25	32.82	0.0164	0.0030	0.000001
Bold Ven. Init. I	1,869,146	14.21	0.0071	1.12	0.0006	186.91	0.09	157.01	0.08	10.28	0.0051	0.0009	0.000000
Bold Ven. Init. II	4,397,992	33.42	0.0167	2.64	0.0013	439.80	0.22	369.43	0.18	24.19	0.0121	0.0022	0.000001
Dining Facility	1,344,466	10.22	0.0051	0.81	0.0004	134.45	0.07	112.94	0.06	7.39	0.0037	0.0007	0.000000
Company HQ	457,171	3.47	0.0017	0.27	0.0001	45.72	0.02	38.40	0.02	2.51	0.0013	0.0002	0.000000
Battalian Ops.	457,171	3.47	0.0017	0.27	0.0001	45.72	0.02	38.40	0.02	2.51	0.0013	0.0002	0.000000
Bold Ven. Init. III	1,869,146	14.21	0.0071	1.12	0.0006	186.91	0.09	157.01	0.08	10.28	0.0051	0.0009	0.000000
Bold Ven. Init. IV	549,749	4.18	0.0021	0.33	0.0002	54.97	0.03	46.18	0.02	3.02	0.0015	0.0003	0.000000
USA 1st Recr. Brg.	40,114	0.30	0.0002	0.02	0.0000	4.01	0.002	3.37	0.00	0.22	0.0001	0.0000	0.000000

Notes:

1. Assumptions made in estimating gas use for the new boilers are provided on the following page.
2. PM is expressed as total PM (sum of filterable & condensable).
3. The following emission factors are from Volume I of AP-42, Supplement D, Tables 1.4-1, 1.4-2, and 1.4-3, for natural gas combustion, small boilers (<100 MMBtu/hr heat input):

SO ₂ :	0.6 lb/10 ⁶ ft ³
NO _x :	100 lb/10 ⁶ ft ³
CO:	84 lb/10 ⁶ ft ³
VOC:	5.5 lb/10 ⁶ ft ³
PM:	7.6 lb/10 ⁶ ft ³
Lead:	0.0005 lb/10 ⁶ ft ³

Estimated Annual Emissions from New Natural Gas-Fired Boilers for Alternative Action Projects

Proposed Action	Estimated Gas Use (ft ³)	PM		SO ₂		NO _x		CO		VOC		Lead	
		lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy
Mil. Ent. Pro. Stn.	1,714,062	13.03	0.0065	1.03	0.0005	171.41	0.09	143.98	0.07	9.43	0.0047	0.0009	0.000000
Brrcks Rep. Ph. I	5,966,975	45.35	0.0227	3.58	0.0018	596.70	0.30	501.23	0.25	32.82	0.0164	0.0030	0.000001
Brrcks Rep. Ph. II	5,966,975	45.35	0.0227	3.58	0.0018	596.70	0.30	501.23	0.25	32.82	0.0164	0.0030	0.000001
Bold Ven. Init. I	1,869,146	14.21	0.0071	1.12	0.0006	186.91	0.09	157.01	0.08	10.28	0.0051	0.0009	0.000000
Bold Ven. Init. II	4,397,992	33.42	0.0167	2.64	0.0013	439.80	0.22	369.43	0.18	24.19	0.0121	0.0022	0.000001
Dining Facility	1,344,466	10.22	0.0051	0.81	0.0004	134.45	0.07	112.94	0.06	7.39	0.0037	0.0007	0.000000
Company HQ	457,171	3.47	0.0017	0.27	0.0001	45.72	0.02	38.40	0.02	2.51	0.0013	0.0002	0.000000
Battalian Ops.	457,171	3.47	0.0017	0.27	0.0001	45.72	0.02	38.40	0.02	2.51	0.0013	0.0002	0.000000
USA 1st Recr. Brg.	40,114	0.30	0.0002	0.02	0.0000	4.01	0.002	3.37	0.00	0.22	0.0001	0.0000	0.000000

Notes:

1. Assumptions made in estimating gas use for the new boilers are provided on the following page.
2. PM is expressed as total PM (sum of filterable & condensable).
3. The following emission factors are from Volume I of AP-42, Supplement D, Tables 1.4-1, 1.4-2, and 1.4-3, for natural gas combustion, small boilers (<100 MMBtu/hr heat input):

SO ₂ :	0.6 lb/10 ⁶ ft ³
NO _x :	100 lb/10 ⁶ ft ³
CO:	84 lb/10 ⁶ ft ³
VOC:	5.5 lb/10 ⁶ ft ³
PM:	7.6 lb/10 ⁶ ft ³
Lead:	0.0005 lb/10 ⁶ ft ³

Estimated Annual Emissions from New Natural Gas-Fired Boilers from Other Actions

Proposed Action	Estimated Gas Use (ft ³)	PM		SO ₂		NO _x		CO		VOC		Lead	
		lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy	lb/yr	tpy
Information Systems Software Center (ISSC)	NB	0	0	0	0	0	0	0	0	0	0	0	0
Defense Security Services (DSS)	4,159,071	31.61	0.0158	2.50	0.0012	415.91	0.21	349.36	0.17	22.87	0.0114	0.0021	0.000001
U.S. Army Reserve Center (USARC)	7,908,524	60.10	0.0301	4.75	0.0024	790.85	0.40	664.32	0.33	43.50	0.0217	0.0040	0.000002
Library of Congress Storage facility	1,319,398	10.03	0.0050	0.79	0.0004	131.94	0.07	110.83	0.06	7.26	0.0036	0.0007	0.000000
Anne Arundel Community College Extension Campus	6,049,987	45.98	0.0230	3.63	0.0018	605.00	0.30	508.20	0.25	33.27	0.0166	0.0030	0.000002
Family Travel Camp	NB	0	0	0	0	0	0	0	0	0	0	0	0
CIDC	351,839	2.67	0.0013	0.21	0.0001	35.18	0.02	29.55	0.01	1.94	0.0010	0.0002	0.000000

Notes:

1. Assumptions made in estimating gas use for the new boilers are provided on the following page.
2. PM is expressed as total PM (sum of filterable & condensable).
3. The following emission factors are from Volume I of AP-42, Supplement D, Tables 1.4-1, 1.4-2, and 1.4-3, for natural gas combustion, small boilers (<100 MMBtu/hr heat input):
 - SO₂: 0.6 lb/10⁶ ft³
 - NO_x: 100 lb/10⁶ ft³
 - CO: 84 lb/10⁶ ft³
 - VOC: 5.5 lb/10⁶ ft³
 - PM: 7.6 lb/10⁶ ft³
 - Lead: 0.0005 lb/10⁶ ft³
4. NB - These facilities will not have a new boiler.

Estimation of Natural Gas Requirements for New Boilers

According to BRAC 95 document, the Proposed Action for realigning the ESSD and SDC-W to Fort Meade (known as the ISSC in the current EIS) involved renovation of a total of approximately 64,000 ft².

Proposed action for realigning the DSS to Fort Meade is construction of a new building of approximately 80,000 ft².

Estimated natural gas usage for ESSD/SDC-W is 3,098,742 ft³, while natural gas usage for DSS is 4,922,556 ft³.

Ratio of gas use to building area:

ESSD & SDC-W:	3,098,742 / 64,000	48.4
DSS:	4,922,556 / 80,000	<u>61.5</u>
	Average	55

Project	New Building Area (ft ²)	Ratio of Gas Use to Building Area	Estimated Gas Requirements for New Heating Boilers (ft ³)
Mil. Ent. Pro. Stn.	31,179	x 55 =	1,714,062
Brrcks Rep. Ph. I	108,540	x 55 =	5,966,975
Brrcks Rep. Ph. II	108,540	x 55 =	5,966,975
Bold Ven. Init. I	34,000	x 55 =	1,869,146
Bold Ven. Init. II	80,000	x 55 =	4,397,992
Dining Facility	24,456	x 55 =	1,344,466
Company HQ	8,316	x 55 =	457,171
Battalion Ops.	8,316	x 55 =	457,171
Bold Ven. Init. III	34,000	x 55 =	1,869,146
Bold Ven. Init. IV	10,000	x 55 =	549,749
USA 1st Recr. Brg.	40,114	x 55 =	2,205,263
Information Systems Software Center (ISSC)	no new boiler	x 55 =	0
Defense Security Services (DSS)	75654	x 55 =	4,159,071
U.S. Army Reserve Center (USARC)	143857	x 55 =	7,908,524
Library of Congress Storage facility	24000	x 55 =	1,319,398
Anne Arundel Community College Extension Campus	110050	x 55 =	6,049,987
Family Travel Camp	no new boiler	x 55 =	0
CIDC	6400	x 55 =	351,839

APPENDIX F-4
EMISSIONS FROM NEW COMMUTER AUTOMOBILES

Proposed/Alternative Actions Emissions Summary

Annual Emissions Increase due to Proposed Action (tons per year)

Pollutant	2000		2001		2002		2003	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	0.00	0.00%	0.27	0.10%	0.29	0.11%	3.79	1.46%
VOC	0.00	0.00%	0.12	0.14%	0.13	0.15%	1.35	1.73%
CO	0.00	0.00%	0.81	0.12%	0.90	0.14%	8.59	1.43%

Pollutant	2004		2005		2020	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	13.43	5.26%	13.78	5.56%	10.64	4.28%
VOC	4.68	6.17%	4.84	6.51%	4.01	5.04%
CO	29.95	5.10%	31.80	5.40%	27.64	4.26%

Annual Emissions Increase due to Alternative Action (tons per year)

Pollutant	2000		2001		2002		2003	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	0.00	0.00%	0.27	0.10%	0.29	0.11%	3.79	1.46%
VOC	0.00	0.00%	0.12	0.14%	0.13	0.15%	1.35	1.73%
CO	0.00	0.00%	0.81	0.12%	0.90	0.14%	8.59	1.43%

Pollutant	2004		2005		2020	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	9.95	3.90%	9.49	3.83%	7.32	2.94%
VOC	3.47	4.58%	3.34	4.49%	2.76	3.48%
CO	22.24	3.79%	21.96	3.73%	19.09	2.95%

Cumulative Emissions Summary

Annual Emissions Increase due to Proposed Action and Other Actions (tons per year)

Pollutant	2000		2001		2002		2003	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	0.00	0.00%	10.67	4.00%	16.26	6.20%	18.89	7.26%
VOC	0.00	0.00%	3.79	4.44%	5.72	6.99%	6.51	8.31%
CO	0.00	0.00%	26.28	3.97%	37.68	5.93%	41.99	6.98%

Pollutant	2004		2005		2020	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	27.48	10.76%	26.70	10.78%	18.04	7.25%
VOC	9.44	12.45%	9.30	12.50%	6.79	8.55%
CO	61.05	10.40%	61.44	10.42%	46.62	7.19%

Annual Emissions Increase due to Alternative Action and Other Actions (tons per year)

Pollutant	2000		2001		2002		2003	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	0.00	0.00%	10.67	4.00%	16.26	6.20%	18.89	7.26%
VOC	0.00	0.00%	3.79	4.44%	5.72	6.99%	6.51	8.31%
CO	0.00	0.00%	26.28	3.97%	37.68	5.93%	41.99	6.98%

Pollutant	2004		2005		2020	
	Increase (tpy)	Percentage	Increase (tpy)	Percentage	Increase (tpy)	Percentage
NOx	23.99	9.40%	22.40	9.04%	14.73	5.92%
VOC	8.23	10.86%	7.80	10.48%	5.55	6.99%
CO	53.33	9.08%	51.60	8.75%	38.08	5.88%

Regional Commuting Emissions*

Assume 250 business/commuting days per year
 Assume MOBILE5b emission factors for 50 mph
 Assume each commuter travels a daily total distance of 25 miles

Proposed Action

	Year						
	2000	2001	2002	2003	2004	2005	2020
No. of New Commuters	0	0	0	210	800	862	862
NOx (tpy)	0.00	0.00	0.00	2.49	9.15	9.38	7.25
VOC (tpy)	0.00	0.00	0.00	0.82	2.98	3.09	2.55
CO (tpy)	0.00	0.00	0.00	4.92	18.13	19.30	16.75

Alternative Action

	Year						
	2000	2001	2002	2003	2004	2005	2020
No. of New Commuters	0	0	0	210	590	590	590
NOx (tpy)	0.00	0.00	0.00	2.49	6.75	6.42	4.96
VOC (tpy)	0.00	0.00	0.00	0.82	2.19	2.11	1.75
CO (tpy)	0.00	0.00	0.00	4.92	13.37	13.21	11.46

Other Actions (add to cumulative emissions summary table)

	Year						
	2000	2001	2002	2003	2004	2005	2020
No. of New Commuters	0	296	746	746	746	746	746
NOx (tpy)	0.00	3.69	9.05	8.84	8.53	8.12	6.27
VOC (tpy)	0.00	1.28	3.08	2.93	2.78	2.67	2.21
CO (tpy)	0.00	7.75	18.55	17.47	16.91	16.70	14.49

* Emissions associated with commuter travel beyond the roads in and immediately around Fort Meade

Average Daily Traffic (ADT) by Segment and Year

Segment	1999	2000	2001		2002		2003		2004			2005			2020		
	Baseline	No Action	No Action	Proposed Action	No Action	Proposed Action	No Action	Proposed Action	No Action	Proposed Action	Alternative Action	No Action	Proposed Action	Alternative Action	No Action	Proposed Action	Alternative Action
1 MD 175 (BW Parkway to Rockenbach Road)	27,700	28,390	29,100	29,100	29,830	29,900	30,580	30,920	31,340	32,380	32,100	32,120	33,260	32,880	45,000	46,140	45,760
2 MD 175 (Rockenbach Road to Mapes Road)	21,700	22,240	22,800	22,860	23,370	23,430	23,950	24,290	24,550	25,960	25,580	25,160	26,660	26,190	36,450	37,950	37,480
3 MD 175 (Mapes Road to MD 32)	26,400	27,060	27,740	27,800	28,430	28,490	29,140	29,430	29,870	30,970	30,680	30,620	31,790	31,430	44,340	45,510	45,150
4 Mapes Road (MD 175 to Ernie Pyle Street)	8,080	8,080	8,080	8,140	8,080	8,140	8,080	8,500	8,080	8,500	8,500	8,080	8,600	8,500	8,080	8,600	8,500
5 Mapes Road (Ernie Pyle Street to Cooper Avenue)	11,180	11,180	11,180	11,250	11,180	11,250	11,180	11,530	11,180	12,040	11,860	11,180	12,110	11,860	11,180	12,110	11,860
6 Mapes Road (Cooper Avenue to MD 32)	12,730	12,730	12,730	12,800	12,730	12,800	12,730	13,080	12,730	13,850	13,580	12,730	13,920	13,580	12,730	13,920	13,580
7 Route 32 (MD 198 to Emory Road)	35,000	36,050	36,050	36,090	37,130	37,170	38,240	38,470	39,390	40,130	39,950	40,570	41,360	41,130	67,000	67,790	67,560
8 Route 32 (Mapes Road to MD 198)	52,000	53,560	53,560	53,630	55,170	55,240	56,830	57,180	58,530	59,650	59,380	60,290	61,480	61,140	89,000	90,190	89,850
9 Route 32 (Mapes Road to MD 175)	46,000	47,380	47,380	47,380	48,800	48,800	50,260	50,260	51,770	51,770	51,770	53,320	53,320	53,320	81,000	81,000	81,000
10 Reece Road (MD 175 to Ernie Pyle Street)	7,300	7,300	7,300	7,400	7,300	7,400	7,300	7,670	7,300	7,670	7,670	7,300	7,740	7,670	7,300	7,740	7,670
11 Llewelyn Avenue (MD 175 to Ernie Pyle Street)	6,380	6,380	6,380	6,380	6,380	6,380	6,380	6,380	6,380	8,180	7,540	6,380	8,180	7,540	6,380	8,180	7,540
12 Llewelyn Avenue (Ernie Pyle Street to Cooper Avenue)	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790	4,790	5,050	4,960	4,790	5,050	4,960	4,790	5,050	4,960
13 Ernie Pyle Street (Llewelyn Avenue to Mapes Road)	2,530	2,530	2,530	2,530	2,530	2,530	2,530	2,530	2,530	3,040	2,860	2,530	3,040	2,860	2,530	3,040	2,860
14 Ernie Pyle Street (Mapes Road to Reece Road)	1,400	1,400	1,400	1,490	1,400	1,490	1,400	1,770	1,400	1,770	1,770	1,400	1,840	1,770	1,400	1,840	1,770
15 BW Parkway (MD 175 to NSA exit)	84,000	84,050	84,100	84,120	84,150	84,170	84,200	84,310	84,250	84,620	84,530	84,300	84,710	84,580	85,000	85,410	85,280
16 Rockenbach Road (MD 175 to Cooper Avenue)	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
17 Cooper Avenue (Rockenbach Road to Mapes Road)	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
18 Taylor Avenue (South of Mapes Road)	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300

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ADT for Other Actions Included																	
Segment	1999	2000	2001		2002		2003		2004			2005			2020		
	Baseline	No Action	No Action	Proposed Action	No Action	Proposed Action	No Action	Proposed Action	No Action	Proposed Action	Alternative Action	No Action	Proposed Action	Alternative Action	No Action	Proposed Action	Alternative Action
1 MD 175 (BW Parkway to Rockenbach Road)	27,700	28,390	29,890	29,960	31,050	31,120	31,800	32,140	32,560	33,680	33,400	33,340	34,560	34,180	45,000	46,220	45,840
2 MD 175 (Rockenbach Road to Mapes Road)	21,700	22,240	23,630	23,690	24,440	24,500	25,020	25,360	25,620	27,030	26,650	26,240	27,740	27,270	36,450	37,950	37,840
3 MD 175 (Mapes Road to MD 32)	26,400	27,060	28,450	28,510	29,350	29,410	30,060	30,350	30,790	31,890	31,600	31,540	32,710	32,350	44,340	45,510	45,150
4 Mapes Road (MD 175 to Ernie Pyle Street)	8,080	8,080	9,220	9,280	9,220	9,280	9,220	9,640	9,220	9,640	9,640	9,220	9,740	9,640	9,220	9,740	9,640
5 Mapes Road (Ernie Pyle Street to Cooper Avenue)	11,180	11,180	11,680	11,750	11,680	11,750	11,680	12,030	11,680	12,800	12,530	11,680	12,870	12,530	11,680	12,870	12,530
6 Mapes Road (Cooper Avenue to MD 32)	12,730	12,730	13,740	13,810	13,960	14,030	13,960	14,310	13,960	15,080	14,810	13,960	15,150	14,810	13,960	15,150	14,810
7 Route 32 (MD 198 to Emory Road)	35,000	36,050	37,840	37,880	38,830	38,870	39,770	40,000	40,740	41,480	41,300	41,730	42,520	42,290	67,000	67,790	67,560
8 Route 32 (Mapes Road to MD 198)	52,000	53,560	56,180	56,250	57,620	57,690	59,020	59,370	60,450	61,570	61,300	61,920	63,110	62,770	89,000	90,190	89,850
9 Route 32 (Mapes Road to MD 175)	46,000	47,380	48,800	48,800	49,750	49,750	50,990	50,990	52,250	52,250	52,250	53,560	53,560	53,560	81,000	81,000	81,000
10 Reece Road (MD 175 to Ernie Pyle Street)	7,300	7,300	7,300	7,350	7,340	7,390	7,340	7,520	7,340	7,520	7,520	7,340	7,570	7,520	7,340	7,570	7,520
11 Llewelyn Avenue (MD 175 to Ernie Pyle Street)	6,380	6,380	6,880	6,880	6,880	6,880	6,880	6,880	6,880	7,650	7,380	6,880	7,650	7,380	6,880	7,650	7,380
12 Llewelyn Avenue (Ernie Pyle Street to Cooper Avenue)	4,790	4,790	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290	5,290
13 Ernie Pyle Street (Llewelyn Avenue to Mapes Road)	2,530	2,530	2,530	2,530	2,530	2,530	2,530	2,530	2,530	3,300	3,030	2,530	3,300	3,030	2,530	3,300	3,030
14 Ernie Pyle Street (Mapes Road to Reece Road)	1,400	1,400	1,400	1,470	1,400	1,470	1,400	1,750	1,400	1,750	1,750	1,400	1,790	1,750	1,400	1,790	1,750
15 BW Parkway (MD 175 to NSA exit)	84,000	84,050	84,220	84,240	84,700	84,720	84,750	84,860	84,800	85,170	85,080	84,850	85,260	85,130	85,000	85,410	85,280
16 Rockenbach Road (MD 175 to Cooper Avenue)	12,000	12,000	12,270	12,270	12,450	12,450	12,450	12,450	12,450	12,450	12,450	12,450	12,450	12,450	12,450	12,450	12,450
17 Cooper Avenue (Rockenbach Road to Mapes Road)	7,200	7,200	7,470	7,470	7,580	7,580	7,580	7,580	7,580	7,580	7,580	7,580	7,580	7,580	7,580	7,580	7,580
18 Taylor Avenue (South of Mapes Road)	2,300	2,300	2,300	2,300	2,430	2,430	2,430	2,430	2,430	2,430	2,430	2,430	2,430	2,430	2,430	2,430	2,430

Road Segment Information

Road Segment Description	Length		Speed
	(Feet)	(Miles)	(mph)
1 MD 175 (BW Parkway to Rockenbach Road)	5118	0.9693	45
2 MD 175 (Rockenbach Road to Mapes Road)	10437	1.9767	45
3 MD 175 (Mapes Road to MD 32)	4921	0.9320	39
4 Mapes Road (MD 175 to Ernie Pyle Street)	1494	0.2830	33
5 Mapes Road (Ernie Pyle Street to Cooper Avenue)	4408	0.8348	33
6 Mapes Road (Cooper Avenue to MD 32)	6348	1.2023	33
7 Route 32 (MD 198 to Emory Road)	4828	0.9144	60
8 Route 32 (Mapes Road to MD 198)	1086	0.2057	50
9 Route 32 (Mapes Road to MD 175)	13478	2.5527	61
10 Reece Road (MD 175 to Ernie Pyle Street)	1124	0.2129	29
11 Llewelyn Avenue (MD 175 to Ernie Pyle Street)	1733	0.3282	30
12 Llewelyn Avenue (Ernie Pyle Street to Cooper Avenue)	3755	0.7112	30
13 Ernie Pyle Street (Llewelyn Avenue to Mapes Road)	1803	0.3415	25
14 Ernie Pyle Street (Mapes Road to Reece Road)	3102	0.5875	25
15 BW Parkway (MD 175 to NSA exit)	9198	1.7420	60
16 Rockenbach Road (MD 175 to Cooper Avenue)	6928	1.3121	44
17 Cooper Avenue (Rockenbach Road to Mapes Road)	4856	0.9197	30
18 Taylor Avenue (South of Mapes Road)	3715	0.7036	25

**EXAMPLE CALCULATION:
Estimating the Proposed Action NO_x Emission Increase in 2001 for
Road Segment No. 1**

Length of road segment no. 1:	0.9693 mi
Avg. speed of vehicles on this segment:	45 mph
MOBILE5b NO _x emission factor for 45 mph in 2001:	1.68 g/mi
ADT associated with Proposed Action plus baseline in 2001:	29,170 trips/day
ADT associated with baseline (i.e., No Action) in 2001:	29,100 trips/day

Annual NO_x Emissions (tons per year, or tpy) for Proposed Action Plus no Action in 2001

Total daily miles: (0.9693 mi) x (29,170 trips/day) = 28,275 mi/day

Total daily emissions: (28,275 mi/day) x (1.68 g/mi) = 47,502 g/day

(47,502 g/day) x (1.1025x10⁻⁶ ton/g) x (250 day/yr) = 13.09 tpy

Annual NO_x Emission (tpy) for No Action in 2001

Total daily miles: (0.9693 mi) x (29,100 trips/day) = 28,207 mi/day

Total daily emissions: (28,207 mi/day) x (1.68 g/mi) = 47,388 g/day

(47,388 g/day) x (1.1025x10⁻⁶ tons/g) x (250 day/yr) = 13.06 tpy

**Incremental Increase in NO_x Emissions for Road Segment No. 1 from
Proposed Action Alone in 2001**

13.09 tpy - 13.06 tpy = 0.03 tpy

MOBILE5b Output by Road Segment

Road Segment	Emissions (g/mile)											
	1999			2000			2001			2002		
	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
1	1.94	0.89	5.57	1.82	0.79	5.18	1.68	0.66	4.04	1.63	0.63	3.85
2	1.94	0.89	5.57	1.82	0.79	5.18	1.68	0.66	4.04	1.63	0.63	3.85
3	1.88	0.97	6.37	1.75	0.87	6.00	1.62	0.73	4.70	1.57	0.69	4.50
4	1.84	1.09	7.58	1.72	0.97	7.19	1.59	0.82	5.66	1.54	0.77	5.44
5	1.84	1.09	7.58	1.72	0.97	7.19	1.59	0.82	5.66	1.54	0.77	5.44
6	1.84	1.09	7.58	1.72	0.97	7.19	1.59	0.82	5.66	1.54	0.77	5.44
7	2.77	0.92	8.12	2.59	0.82	7.37	2.39	0.68	5.62	2.31	0.64	5.29
8	2.10	0.85	5.29	1.97	0.75	4.89	1.81	0.63	3.80	1.76	0.60	3.61
9	2.86	0.94	8.68	2.67	0.83	7.86	2.46	0.69	5.99	2.38	0.65	5.62
10	1.84	1.20	8.72	1.72	1.07	8.30	1.59	0.89	6.55	1.54	0.85	6.31
11	1.84	1.17	8.40	1.72	1.04	7.99	1.59	0.87	6.31	1.54	0.83	6.07
12	1.84	1.17	8.40	1.72	1.04	7.99	1.59	0.87	6.31	1.54	0.83	6.07
13	1.85	1.33	10.22	1.73	1.18	9.78	1.60	0.99	7.75	1.55	0.94	7.47
14	1.85	1.33	10.22	1.73	1.18	9.78	1.60	0.99	7.75	1.55	0.94	7.47
15	2.77	0.92	8.12	2.59	0.82	7.37	2.39	0.68	5.62	2.31	0.64	5.29
16	1.93	0.90	5.98	1.80	0.80	5.30	1.66	0.67	4.13	1.62	0.64	3.94
17	1.84	1.17	8.40	1.72	1.04	7.99	1.59	0.87	6.31	1.54	0.83	6.07
18	1.85	1.33	10.22	1.73	1.18	9.78	1.60	0.99	7.75	1.55	0.94	7.47

Road Segment	Emissions (g/mile)											
	2003			2004			2005			2020		
	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
1	1.59	0.60	3.63	1.53	0.57	3.51	1.47	0.55	3.47	1.13	0.45	3.02
2	1.59	0.60	3.63	1.53	0.57	3.51	1.47	0.55	3.47	1.13	0.45	3.02
3	1.53	0.65	4.26	1.48	0.62	4.11	1.41	0.60	4.06	1.10	0.50	3.57
4	1.51	0.73	5.17	1.45	0.70	4.99	1.39	0.67	4.93	1.08	0.56	4.33
5	1.51	0.73	5.17	1.45	0.70	4.99	1.39	0.67	4.93	1.08	0.56	4.33
6	1.51	0.73	5.17	1.45	0.70	4.99	1.39	0.67	4.93	1.08	0.56	4.33
7	2.25	0.60	4.90	2.17	0.57	4.69	2.07	0.55	4.63	1.58	0.45	3.84
8	1.72	0.57	3.40	1.66	0.54	3.29	1.58	0.52	3.25	1.22	0.43	2.82
9	2.32	0.61	5.20	2.24	0.58	4.97	2.13	0.56	4.90	1.62	0.45	4.05
10	1.50	0.80	6.01	1.45	0.77	5.81	1.39	0.74	5.73	1.08	0.62	5.12
11	1.50	0.79	5.78	1.45	0.75	5.58	1.39	0.72	5.51	1.08	0.60	4.91
12	1.50	0.79	5.78	1.45	0.75	5.58	1.39	0.72	5.51	1.08	0.60	4.91
13	1.52	0.89	7.13	1.46	0.85	6.90	1.40	0.82	6.80	1.08	0.69	6.11
14	1.52	0.89	7.13	1.46	0.85	6.90	1.40	0.82	6.80	1.08	0.69	6.11
15	2.25	0.60	4.90	2.17	0.57	4.69	2.07	0.55	4.63	1.58	0.45	3.84
16	1.58	0.60	3.72	1.52	0.58	3.59	1.45	0.55	3.55	1.13	0.45	3.10
17	1.50	0.79	5.78	1.45	0.75	5.58	1.39	0.72	5.51	1.08	0.60	4.91
18	1.52	0.89	7.13	1.46	0.85	6.90	1.40	0.82	6.80	1.08	0.69	6.11

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MOBILE5b Output by Speed

Speed (mph)	Emission factor (g/mile)											
	1999			2000			2001			2002		
	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
25	1.85	1.33	10.22	1.73	1.18	9.78	1.60	0.99	7.75	1.55	0.94	7.47
29	1.84	1.20	8.72	1.72	1.07	8.30	1.59	0.89	6.55	1.54	0.85	6.31
30	1.84	1.17	8.40	1.72	1.04	7.99	1.59	0.87	6.31	1.54	0.83	6.07
33	1.84	1.09	7.58	1.72	0.97	7.19	1.59	0.82	5.66	1.54	0.77	5.44
39	1.88	0.97	6.37	1.75	0.87	6.00	1.62	0.73	4.70	1.57	0.69	4.50
44	1.93	0.90	5.98	1.80	0.80	5.30	1.66	0.67	4.13	1.62	0.64	3.94
45	1.94	0.89	5.57	1.82	0.79	5.18	1.68	0.66	4.04	1.63	0.63	3.85
50	2.10	0.85	5.29	1.97	0.75	4.89	1.81	0.63	3.80	1.76	0.60	3.61
60	2.77	0.92	8.12	2.59	0.82	7.37	2.39	0.68	5.62	2.31	0.64	5.29
61	2.86	0.94	8.68	2.67	0.83	7.86	2.46	0.69	5.99	2.38	0.65	5.62

Speed (mph)	Emission factor (g/mile)											
	2003			2004			2005			2020		
	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
25	1.52	0.89	7.13	1.46	0.85	6.90	1.40	0.82	6.80	1.08	0.69	6.11
29	1.50	0.80	6.01	1.45	0.77	5.81	1.39	0.74	5.73	1.08	0.62	5.12
30	1.50	0.79	5.78	1.45	0.75	5.58	1.39	0.72	5.51	1.08	0.60	4.91
33	1.51	0.73	5.17	1.45	0.70	4.99	1.39	0.67	4.93	1.08	0.56	4.33
39	1.53	0.65	4.26	1.48	0.62	4.11	1.41	0.60	4.06	1.10	0.50	3.57
44	1.58	0.60	3.72	1.52	0.58	3.59	1.45	0.55	3.55	1.13	0.45	3.10
45	1.59	0.60	3.63	1.53	0.57	3.51	1.47	0.55	3.47	1.13	0.45	3.02
50	1.72	0.57	3.40	1.66	0.54	3.29	1.58	0.52	3.25	1.22	0.43	2.82
60	2.25	0.60	4.90	2.17	0.57	4.69	2.07	0.55	4.63	1.58	0.45	3.84
61	2.32	0.61	5.20	2.24	0.58	4.97	2.13	0.56	4.90	1.62	0.45	4.05

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EXAMPLE MOBILE5b MODEL OUTPUT FOR 2004

12004 Fort Meade Area EFs; Daily Time Period (July); MDE input file
MOBILE5b (14-Sep-96)

0
-M 49 Warning:
+ 0.999 MYR sum not = 1. (will normalize)
-M 49 Warning:
+ 0.999 MYR sum not = 1. (will normalize)
-M 49 Warning:
+ 0.999 MYR sum not = 1. (will normalize)
-M 49 Warning:
+ 0.886 MYR sum not = 1. (will normalize)
-M 49 Warning:
+ 0.999 MYR sum not = 1. (will normalize)
-M 49 Warning:
+ 0.999 MYR sum not = 1. (will normalize)
-M 49 Warning:
+ 1.00 MYR sum not = 1. (will normalize)

-M170 Warning:
+ Exhaust emissions for gasoline fueled vehicles
beginning in 1995 have been reduced as a result of
Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:
+ A/C correction factor will be calculated.
Value of inputted AC usage parameter is ignored.

-M154 Warning:
+ Refueling emissions for LDGV and LDGT after 1998
model year have been reduced as a result of the
Onboard Refueling Vapor Recovery Regulations (1994).
Emission Factor Modification Profile

0
+
0Equation Reg Veh Pol First MY Last MY Base DR Altered
+
1 1 7 3 1990 1990 11.65 0.00 Yes
2 1 7 3 1991 1997 9.37 0.00 Yes
3 1 7 3 1998 2003 7.49 0.00 Yes
4 1 7 3 2004 2050 3.75 0.00 Yes

0I/M program #1 selected:

I/M program #2 selected:

0Start year (Jan 1): 1984
Pre-1981 stringency: 23%
First MYR covered: 1977
Last MYR covered: 2020
Waiver (pre-1981): 3.%

Start year (Jan 1): 1984
Pre-1981 stringency: 40%
First MYR covered: 1984
Last MYR covered: 2020
Waiver (pre-1981): 3.%

Waiver (1981+): 3.8
 Compliance Rate: 96.8
 Inspection type:
 Test Only
 Inspection frequency: Biennial
 I/M program #1 vehicle types
 LDGV - Yes
 LDGT1 - Yes
 LDGT2 - Yes
 HDGV - Yes
 1981 & later MYR test type:
 Idle
 Cutpoints, HC: 220.000
 Cutpoints, CO: 1.200
 Cutpoints, NOx: 999.000

Waiver (1981+): 3.8
 Compliance Rate: 96.8
 Inspection type:
 Test Only
 Inspection frequency: Biennial
 I/M program #2 vehicle types
 LDGV - Yes
 LDGT1 - Yes
 LDGT2 - Yes
 HDGV - No
 1981 & later MYR test type:
 IM240 test
 Cutpoints, HC: 0.800
 Cutpoints, CO: 15.000
 Cutpoints, NOx: 2.000

Low alt, Annl and Bien Insp Freq TECH 1 & 2 I/M cred data
 Bien Insp Freq & TECH 4+ I/M credit Idle test data
 Bien Insp Freq & TECH 4+ I/M credit IM240 test data
 With 100.0% Technician Training and Certification Credit

0Functional Check Program Description:

0Check Start Model Yrs Vehicle Classes Covered	Inspection	Comp	Eff
(Jan1) Covered LDGV LDGT1 LDGT2 HDGV Type	Freq	Rate	Adj
Press 1997 1977-2020 Yes Yes Yes Yes Test Only	Biennial	96.0%	1.00
Purge 1997 1984-2020 Yes Yes Yes No Test Only	Biennial	96.0%	1.00
ATP 1989 1977-2020 Yes Yes Yes Yes Test Only	Biennial	96.0%	1.00

0Air pump system disablements: No Catalyst removals: Yes
 Fuel inlet restrictor disablements: Yes Tailpipe lead deposit test: No
 EGR disablement: No Evaporative system disablements: No
 PCV system disablements: No Missing gas caps: Yes

0Replacement Diesel Sales Fractions Input by User:

0	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
+										
LDDV:	0.002	0.020	0.025	0.026	0.037	0.075	0.099	0.090	0.054	0.034
LDDT:	0.001	0.000	0.002	0.010	0.015	0.029	0.045	0.069	0.030	0.024
0	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
+										
LDDV:	0.025	0.006	0.007	0.001	0.001	0.001	0.003	0.002	0.001	0.001
LDDT:	0.021	0.014	0.009	0.007	0.009	0.008	0.008	0.009	0.010	0.006
0	2000	2001	2002	2003	2004					
+										
LDDV:	0.001	0.002	0.001	0.000	0.000					
LDDT:	0.008	0.011	0.010	0.000	0.000					

OVOC HC emission factors include evaporative HC emission factors.

0

0Emission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

0LEV phase-in data read from file: nlevotc.d

0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004

Region: Low

Altitude: 500. Ft.

I/M Program: Yes

Ambient Temp: 90.2 / 90.2 / 90.2 F

Anti-tam. Program: Yes

Operating Mode: 25.1 / 18.3 / 25.1

Reformulated Gas: Yes

ASTM Class: B

0URBAN STB ST EFS

Minimum Temp: 72. (F)

Maximum Temp: 96. (F)

Period 1 RVP: 7.0

Period 2 RVP: 7.0 Period 2 Yr: 1996

Absolute Humidity: 117.00

AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

+

Veh. Spd.: 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0

VMT Mix: 0.582 0.204 0.090 0.037 0.002 0.002 0.078 0.004

Ext. Load: 0.000 0.000 0.000

Trlr Tow: 0.007 0.009 0.009

ZEV Fract: 0.00% 0.00%

0Composite Emission Factors (Gm/Mile)

VOC HC: 0.68 0.69 0.87 0.74 1.98 0.59 0.68 1.74 5.96 0.85

Exhst HC: 0.46 0.47 0.62 0.51 1.10 0.59 0.68 1.74 1.89 0.61

Evap. HC: 0.08 0.07 0.06 0.07 0.60 3.45 0.10

Refuel HC: 0.03 0.05 0.07 0.05 0.12 0.04

Runing HC: 0.07 0.07 0.08 0.07 0.13 0.06

Rsting HC: 0.04 0.04 0.03 0.04 0.05 0.62 0.04

Exhst CO: 6.08 6.67 7.89 7.04 14.43 1.30 1.30 8.51 18.21 6.90

Exhst NOX: 0.82 0.75 1.00 0.82 3.86 1.18 1.21 7.59 0.68 1.46

-M170 Warning:

+

Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+

A/C correction factor will be calculated. Value of inputted AC usage parameter is ignored.

-M154 Warning:

+

Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.
 LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits
 0LEV phase-in data read from file: nlevotc.d
 0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004 Region: Low Altitude: 500. Ft.
 I/M Program: Yes Ambient Temp: 90.2 / 90.2 / 90.2 F
 Anti-tam. Program: Yes Operating Mode: 25.1 / 18.3 / 25.1
 Reformulated Gas: Yes ASTM Class: B

0URBAN STB ST EFS
 Minimum Temp: 72. (F) Maximum Temp: 96. (F)
 Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996
 Absolute Humidity: 117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	29.0	29.0	29.0		29.0	29.0	29.0	29.0	29.0	
VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								
0Composite Emission Factors (Gm/Mile)										
VOC HC:	0.61	0.63	0.79	0.68	1.76	0.52	0.60	1.54	5.76	0.77
Exhst HC:	0.40	0.41	0.55	0.46	0.89	0.52	0.60	1.54	1.70	0.53
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.06	0.06	0.07	0.06	0.11					0.06
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	5.07	5.65	6.71	5.97	12.37	1.11	1.11	7.29	15.45	5.81
Exhst NOX:	0.83	0.75	1.00	0.83	3.99	1.14	1.16	7.30	0.73	1.45

-M170 Warning:
 + Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:
 + A/C correction factor will be calculated. Value of inputted AC usage parameter is ignored.

-M154 Warning:
 + Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.
 LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

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OLEV phase-in data read from file: nlevotc.d
 0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004 Region: Low Altitude: 500. Ft.
 I/M Program: Yes Ambient Temp: 90.2 / 90.2 / 90.2 F
 Anti-tam. Program: Yes Operating Mode: 25.1 / 18.3 / 25.1
 Reformulated Gas: Yes ASTM Class: B

0URBAN STB ST EFS

 Minimum Temp: 72. (F) Maximum Temp: 96. (F)
 Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996
 Absolute Humidity:117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	30.0	30.0	30.0		30.0	30.0	30.0	30.0	30.0	
VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								

0Composite Emission Factors (Gm/Mile)

VOC HC:	0.60	0.61	0.77	0.66	1.72	0.51	0.59	1.50	5.72	0.75
Exhst HC:	0.39	0.40	0.54	0.44	0.85	0.51	0.59	1.50	1.65	0.52
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.06	0.06	0.06	0.06	0.10					0.05
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	4.86	5.44	6.46	5.75	11.97	1.07	1.07	7.04	14.86	5.58
Exhst NOX:	0.83	0.75	1.01	0.83	4.02	1.13	1.15	7.25	0.74	1.45

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated.
 Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

OLEV phase-in data read from file: nlevotc.d

0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004 Region: Low Altitude: 500. Ft.
 I/M Program: Yes Ambient Temp: 90.2 / 90.2 / 90.2 F
 Anti-tam. Program: Yes Operating Mode: 25.1 / 18.3 / 25.1
 Reformulated Gas: Yes ASTM Class: B

0URBAN STB ST EFS

 Minimum Temp: 72. (F) Maximum Temp: 96. (F)
 Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996
 Absolute Humidity: 117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	33.0	33.0	33.0		33.0	33.0	33.0	33.0	33.0	
VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								
0Composite Emission Factors (Gm/Mile)										
VOC HC:	0.56	0.58	0.72	0.62	1.60	0.47	0.54	1.38	5.60	0.70
Exhst HC:	0.36	0.37	0.50	0.41	0.74	0.47	0.54	1.38	1.54	0.47
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.05	0.05	0.06	0.05	0.09					0.05
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	4.30	4.88	5.81	5.17	10.98	0.98	0.98	6.42	13.28	4.99
Exhst NOX:	0.84	0.75	1.01	0.83	4.12	1.12	1.14	7.18	0.77	1.45

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated.
 Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.

 LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

0LEV phase-in data read from file: nlevotc.d

0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004 Region: Low Altitude: 500. Ft.

I/M Program: Yes Ambient Temp: 90.2 / 90.2 / 90.2 F
 Anti-tam. Program: Yes Operating Mode: 25.1 / 18.3 / 25.1
 Reformulated Gas: Yes ASTM Class: B

OURBAN STB ST EFS

Minimum Temp: 72. (F) Maximum Temp: 96. (F)
 Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996
 Absolute Humidity: 117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	39.0	39.0	39.0		39.0	39.0	39.0	39.0	39.0	
VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								
0Composite Emission Factors (Gm/Mile)										
VOC HC:	0.49	0.52	0.65	0.56	1.43	0.41	0.47	1.20	5.43	0.62
Exhst HC:	0.31	0.33	0.44	0.36	0.59	0.41	0.47	1.20	1.36	0.41
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.04	0.04	0.04	0.04	0.08					0.04
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	3.44	4.02	4.81	4.26	9.81	0.85	0.85	5.61	10.94	4.11
Exhst NOX:	0.85	0.75	1.01	0.83	4.31	1.14	1.16	7.32	0.81	1.48

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated.
 Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

0LEV phase-in data read from file: nlevotc.d

0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004

Region: Low
 I/M Program: Yes
 Anti-tam. Program: Yes

Altitude: 500. Ft.
 Ambient Temp: 90.2 / 90.2 / 90.2 F
 Operating Mode: 25.1 / 18.3 / 25.1

Reformulated Gas: Yes

ASTM Class: B

OURBAN STB ST EFS

Minimum Temp: 72. (F)

Maximum Temp: 96. (F)

Period 1 RVP: 7.0

Period 2 RVP: 7.0 Period 2 Yr: 1996

Absolute Humidity: 117.00

AC (DB / WB): 1.0 (87.7 / 75.3)

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDBGV	LDDV	LDDT	HDDV	MC	All Veh
-------------	------	-------	-------	------	-------	------	------	------	----	---------

+

Veh. Spd.:	44.0	44.0	44.0		44.0	44.0	44.0	44.0	44.0	
------------	------	------	------	--	------	------	------	------	------	--

VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
----------	-------	-------	-------	--	-------	-------	-------	-------	-------	--

Ext. Load:	0.000	0.000	0.000							
------------	-------	-------	-------	--	--	--	--	--	--	--

Trlr Tow:	0.007	0.009	0.009							
-----------	-------	-------	-------	--	--	--	--	--	--	--

ZEV Fract:	0.00%	0.00%								
------------	-------	-------	--	--	--	--	--	--	--	--

OComposite Emission Factors (Gm/Mile)

VOC HC:	0.45	0.48	0.60	0.52	1.34	0.37	0.43	1.09	5.35	0.58
---------	------	------	------	------	------	------	------	------	------	------

Exhst HC:	0.27	0.30	0.40	0.33	0.52	0.37	0.43	1.09	1.28	0.37
-----------	------	------	------	------	------	------	------	------	------	------

Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
-----------	------	------	------	------	------	--	--	--	------	------

Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
------------	------	------	------	------	------	--	--	--	--	------

Runing HC:	0.03	0.03	0.03	0.03	0.06					0.03
------------	------	------	------	------	------	--	--	--	--	------

Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
------------	------	------	------	------	------	--	--	--	------	------

Exhst CO:	2.91	3.48	4.19	3.70	9.48	0.80	0.80	5.27	9.74	3.59
-----------	------	------	------	------	------	------	------	------	------	------

Exhst NOX:	0.85	0.76	1.01	0.83	4.48	1.20	1.23	7.73	0.83	1.52
------------	------	------	------	------	------	------	------	------	------	------

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated. Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

OEmission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

OLEV phase-in data read from file: nlevotc.d

OUser supplied basic exhaust emissions rates, veh registration distributions.

OCal. Year: 2004

Region: Low

Altitude: 500. Ft.

I/M Program: Yes

Ambient Temp: 90.2 / 90.2 / 90.2 F

Anti-tam. Program: Yes

Operating Mode: 25.1 / 18.3 / 25.1

Reformulated Gas: Yes

ASTM Class: B

OURBAN STB ST EFS

F-44

Minimum Temp: 72. (F) Maximum Temp: 96. (F)
 Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996
 Absolute Humidity: 117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDTV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	45.0	45.0	45.0		45.0	45.0	45.0	45.0	45.0	
VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								
0Composite Emission Factors (Gm/Mile)										
VOC HC:	0.45	0.48	0.59	0.51	1.33	0.36	0.42	1.08	5.33	0.57
Exhst HC:	0.27	0.30	0.39	0.33	0.50	0.36	0.42	1.08	1.27	0.36
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.03	0.03	0.03	0.03	0.06					0.03
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	2.82	3.39	4.08	3.60	9.48	0.80	0.80	5.24	9.57	3.51
Exhst NOX:	0.85	0.76	1.01	0.83	4.51	1.22	1.25	7.85	0.84	1.53

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated. Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

0LEV phase-in data read from file: nlevotc.d

0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004

Region: Low

Altitude: 500. Ft.

I/M Program: Yes

Ambient Temp: 90.2 / 90.2 / 90.2 F

Anti-tam. Program: Yes

Operating Mode: 25.1 / 18.3 / 25.1

Reformulated Gas: Yes

ASTM Class: B

0URBAN STB ST EFS

Minimum Temp: 72. (F)

Maximum Temp: 96. (F)

Period 1 RVP: 7.0

Period 2 RVP: 7.0 Period 2 Yr: 1996

F-46

Absolute Humidity:117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HdGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	50.0	50.0	50.0		50.0	50.0	50.0	50.0	50.0	
VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004	
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								

0Composite Emission Factors (Gm/Mile)

	VOC	HC	CO	NOx	SOx	PM10	PM2.5	Other
Exhst HC:	0.42	0.45	0.57	0.49	1.27	0.34	0.40	1.01
Exhst CO:	0.25	0.28	0.38	0.31	0.46	0.34	0.40	1.01
Evap. HC:	0.08	0.07	0.06	0.07	0.60			3.45
Refuel HC:	0.03	0.05	0.07	0.05	0.12			0.04
Runing HC:	0.02	0.02	0.02	0.02	0.05			0.02
Rsting HC:	0.04	0.04	0.03	0.04	0.05			0.62
Exhst CO:	2.56	3.14	3.78	3.33	9.80	0.79	0.79	5.20
Exhst NOX:	0.91	0.82	1.10	0.91	4.67	1.35	1.37	8.65

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated. Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

0Emission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

0LEV phase-in data read from file: nlevotc.d

0User supplied basic exhaust emissions rates, veh registration distributions.

0Cal. Year: 2004

Region: Low Altitude: 500. Ft.
 I/M Program: Yes Ambient Temp: 90.2 / 90.2 / 90.2 F
 Anti-tam. Program: Yes Operating Mode: 25.1 / 18.3 / 25.1
 Reformulated Gas: Yes ASTM Class: B

0URBAN STB ST EFS

Minimum Temp: 72. (F) Maximum Temp: 96. (F)
 Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996
 Absolute Humidity:117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HdGV	LDDV	LDDT	HDDV	MC	All Veh
-------------	------	-------	-------	------	------	------	------	------	----	---------

+										
Veh. Spd.:	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
VMT Mix:	0.582	0.204	0.090	0.037	0.002	0.002	0.078	0.004		
Ext. Load:	0.000	0.000	0.000							
Trlr Tow:	0.007	0.009	0.009							
ZEV Fract:	0.00%	0.00%								
OComposite Emission Factors (Gm/Mile)										
VOC HC:	0.47	0.49	0.62	0.53	1.23	0.32	0.37	0.94	5.76	0.57
Exhst HC:	0.30	0.32	0.44	0.36	0.43	0.32	0.37	0.94	1.69	0.38
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.02	0.01	0.02	0.01	0.04					0.01
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	3.87	4.54	5.57	4.85	12.33	0.89	0.89	5.86	20.14	4.69
Exhst NOX:	1.18	1.14	1.53	1.26	5.00	1.82	1.86	11.69	1.32	2.17

-M170 Warning:

+ Exhaust emissions for gasoline fueled vehicles beginning in 1995 have been reduced as a result of Gasoline Detergent Additive Regulations (1994).

-M 56 Comment:

+ A/C correction factor will be calculated. Value of inputted AC usage parameter is ignored.

-M154 Warning:

+ Refueling emissions for LDGV and LDGT after 1998 model year have been reduced as a result of the Onboard Refueling Vapor Recovery Regulations (1994).

O Emission factors are as of July 1st of the indicated calendar year.

LEV phase-in begins in 1999 without using (4/8/94) Guidance Memo Credits

O LEV phase-in data read from file: nlevotc.d

O User supplied basic exhaust emissions rates, veh registration distributions.

O Cal. Year: 2004

Region: Low

Altitude: 500. Ft.

I/M Program: Yes

Ambient Temp: 90.2 / 90.2 / 90.2 F

Anti-tam. Program: Yes

Operating Mode: 25.1 / 18.3 / 25.1

Reformulated Gas: Yes

ASTM Class: B

OURBAN STB ST EFS

Minimum Temp: 72. (F) Maximum Temp: 96. (F)

Period 1 RVP: 7.0 Period 2 RVP: 7.0 Period 2 Yr: 1996

Absolute Humidity: 117.00 AC (DB / WB): 1.0 (87.7 / 75.3)

O Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

+

Veh. Spd.:	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
------------	------	------	------	------	------	------	------	------	------	------

VMT Mix:	0.582	0.204	0.090		0.037	0.002	0.002	0.078	0.004
Ext. Load:	0.000	0.000	0.000						
Trlr Tow:	0.007	0.009	0.009						
ZEV Fract:	0.00%	0.00%							

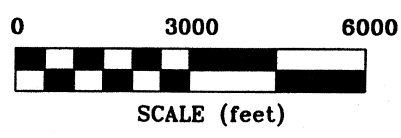
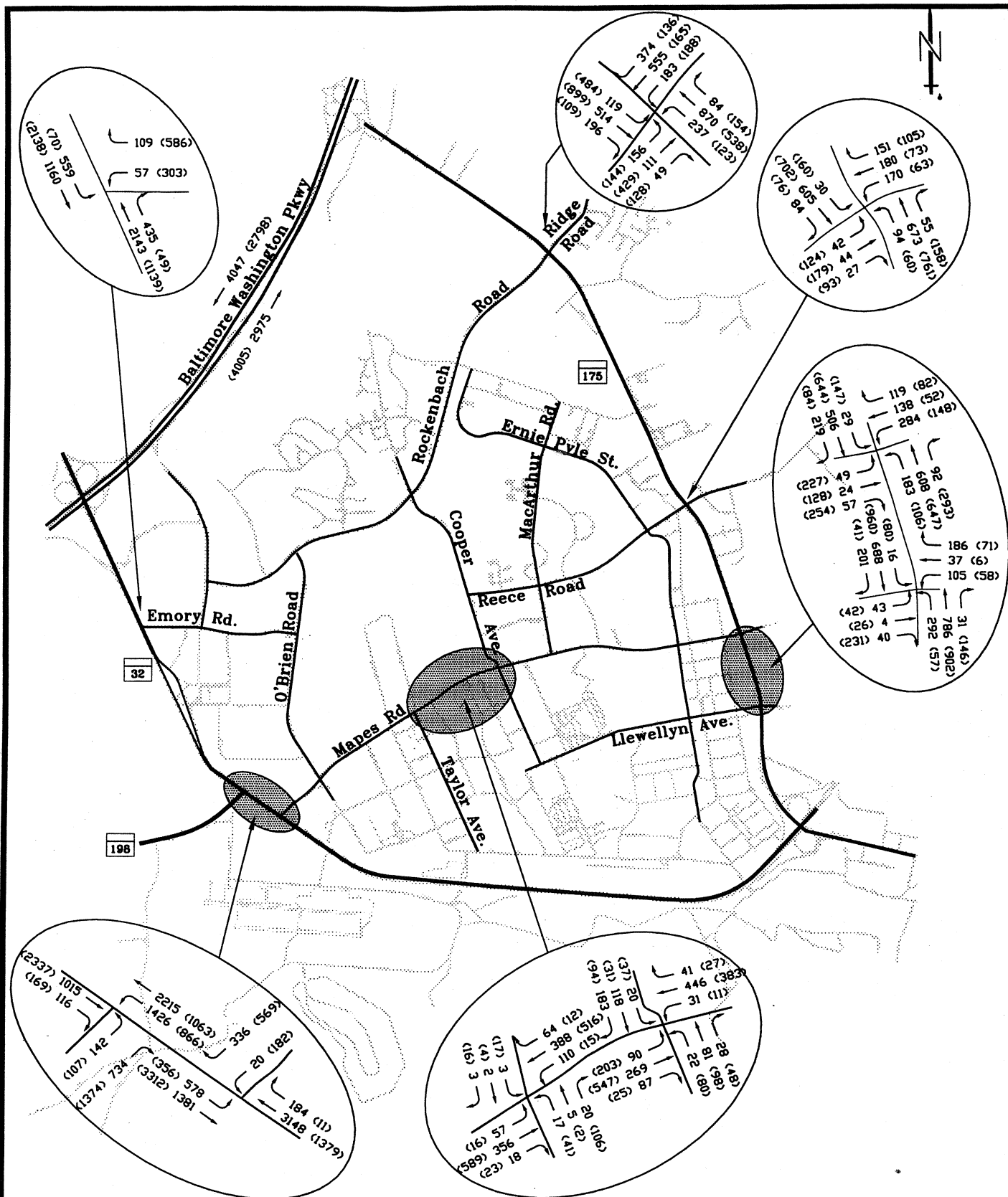
0Composite Emission Factors (Gm/Mile)

VOC HC:	0.48	0.50	0.63	0.54	1.23	0.32	0.37	0.94	5.85	0.58
Exhst HC:	0.31	0.33	0.45	0.37	0.44	0.32	0.37	0.94	1.78	0.39
Evap. HC:	0.08	0.07	0.06	0.07	0.60				3.45	0.10
Refuel HC:	0.03	0.05	0.07	0.05	0.12					0.04
Runing HC:	0.01	0.01	0.02	0.01	0.03					0.01
Rsting HC:	0.04	0.04	0.03	0.04	0.05				0.62	0.04
Exhst CO:	4.14	4.81	5.92	5.16	12.77	0.91	0.91	6.00	22.35	4.97
Exhst NOX:	1.21	1.17	1.58	1.30	5.03	1.89	1.93	12.14	1.36	2.24

APPENDIX G
TRAFFIC MODELING

NO-ACTION

EXHIBITS 1-6



00 - MORNING PEAK HOUR
(00) - EVENING PEAK HOUR

FORT MEADE EIS

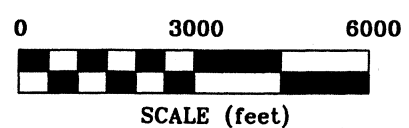
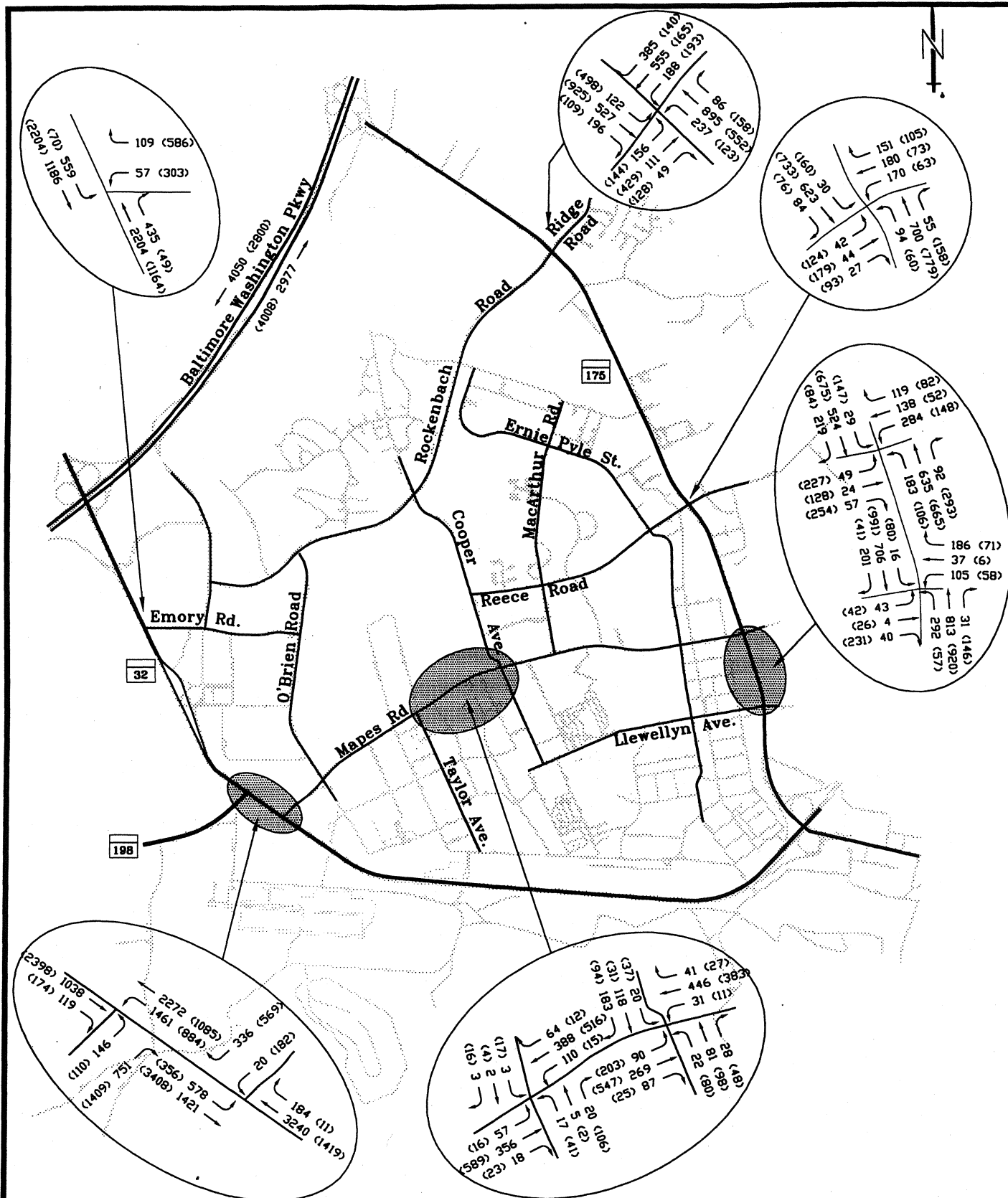
Exhibit 1 Peak Hour Traffic Volumes 2001 - No Action

TTG PROJ: 1999-0521

FILE: FtMeade

DATE: 08 April 99

Versar INC.
9200 RUMSEY ROAD
COLUMBIA, MARYLAND 21045
(410) 964-9200



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

FORT MEADE EIS

Exhibit 2 Peak Hour Traffic Volumes
 2002 - No Action

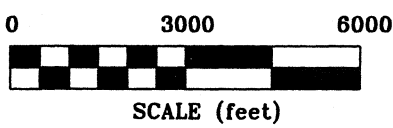
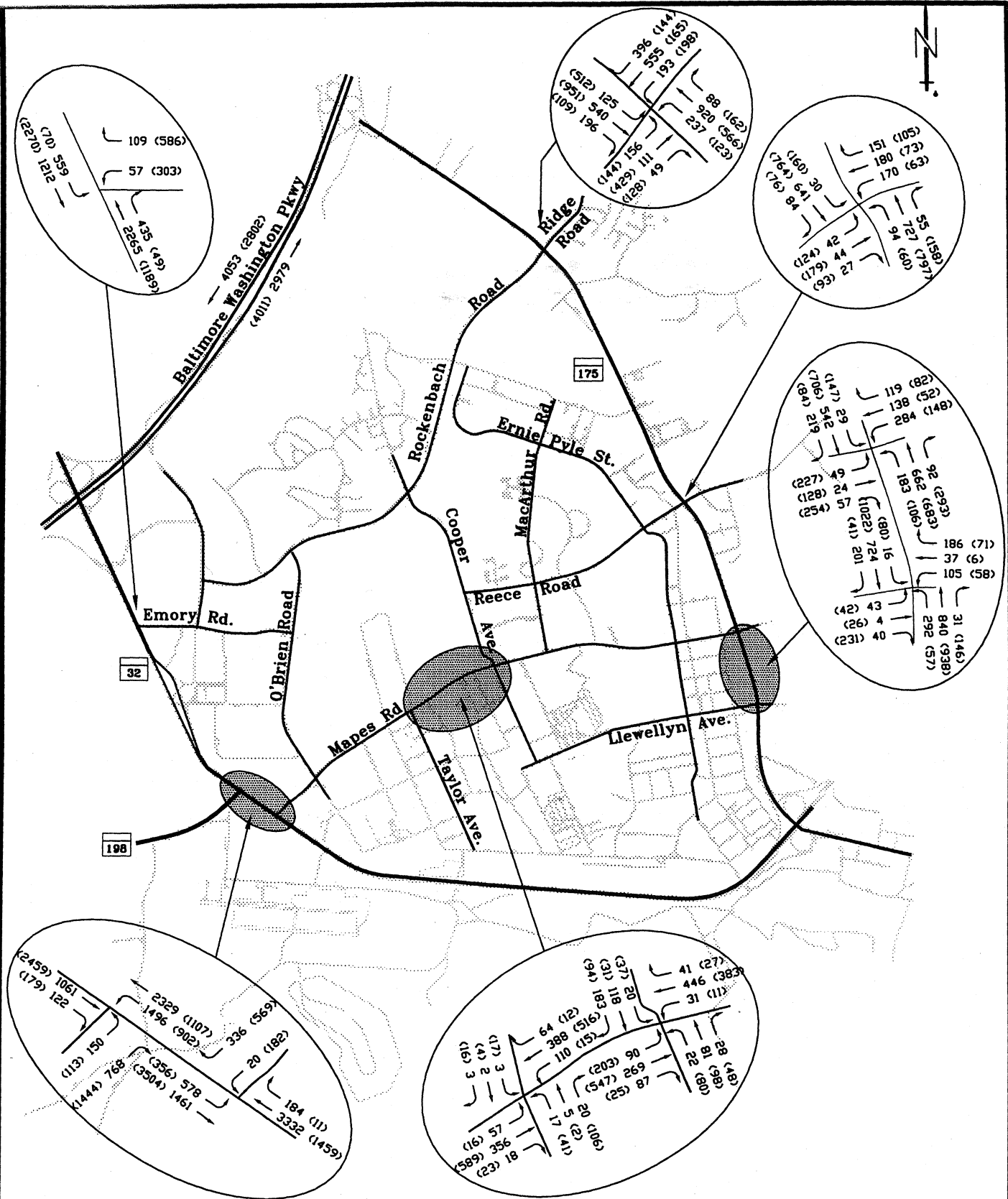
TTG PROJ: 1999-0521

FILE: FtMeade


DATE: 08 April 99

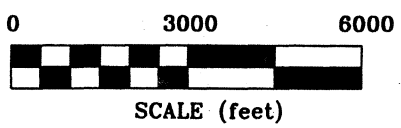
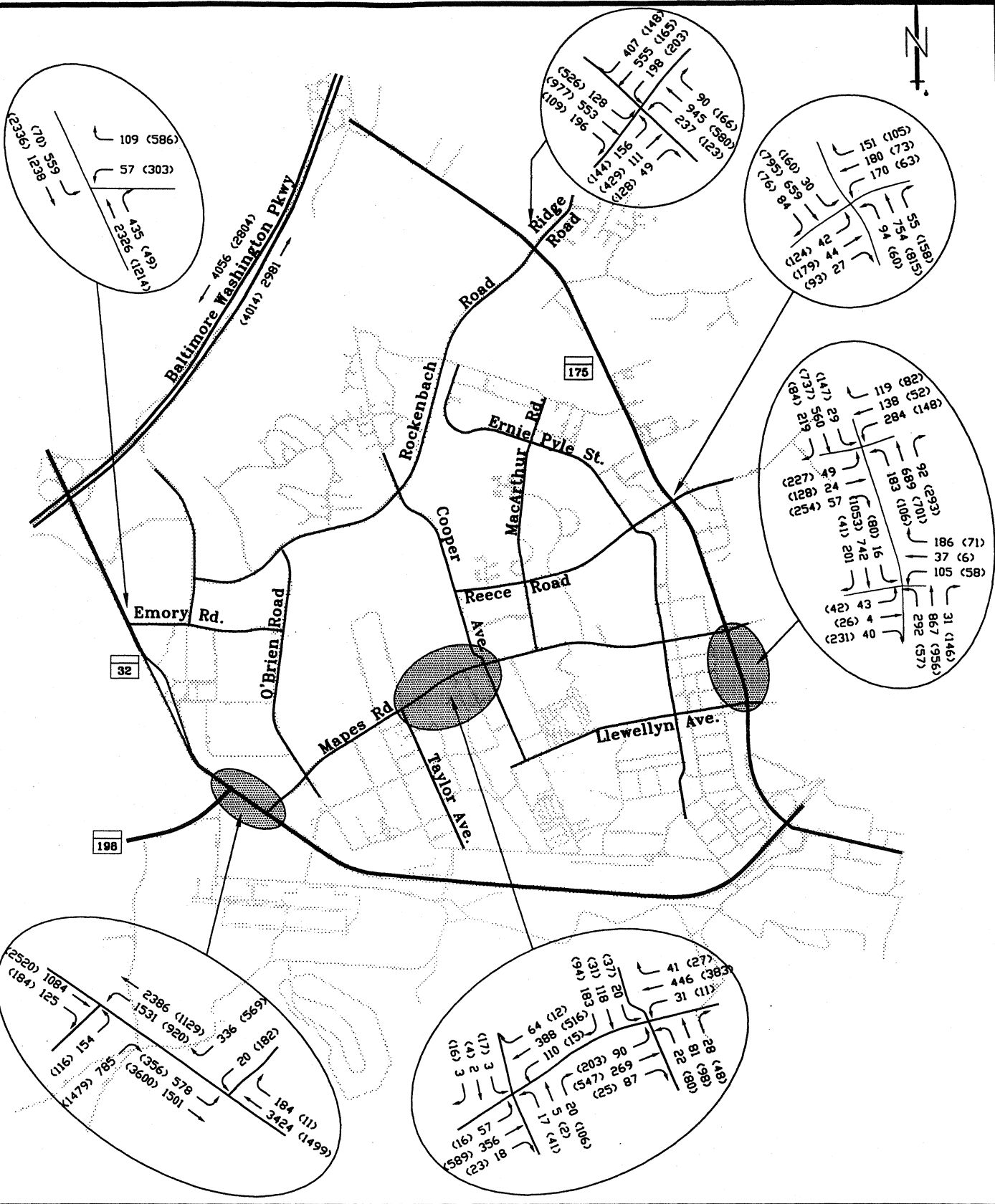
Versar INC.
 9200 RUMSEY ROAD
 COLUMBIA, MARYLAND 21045
 (410) 964-9200

The Traffic Group



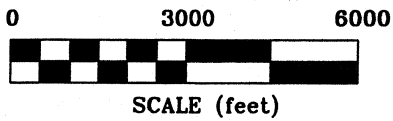
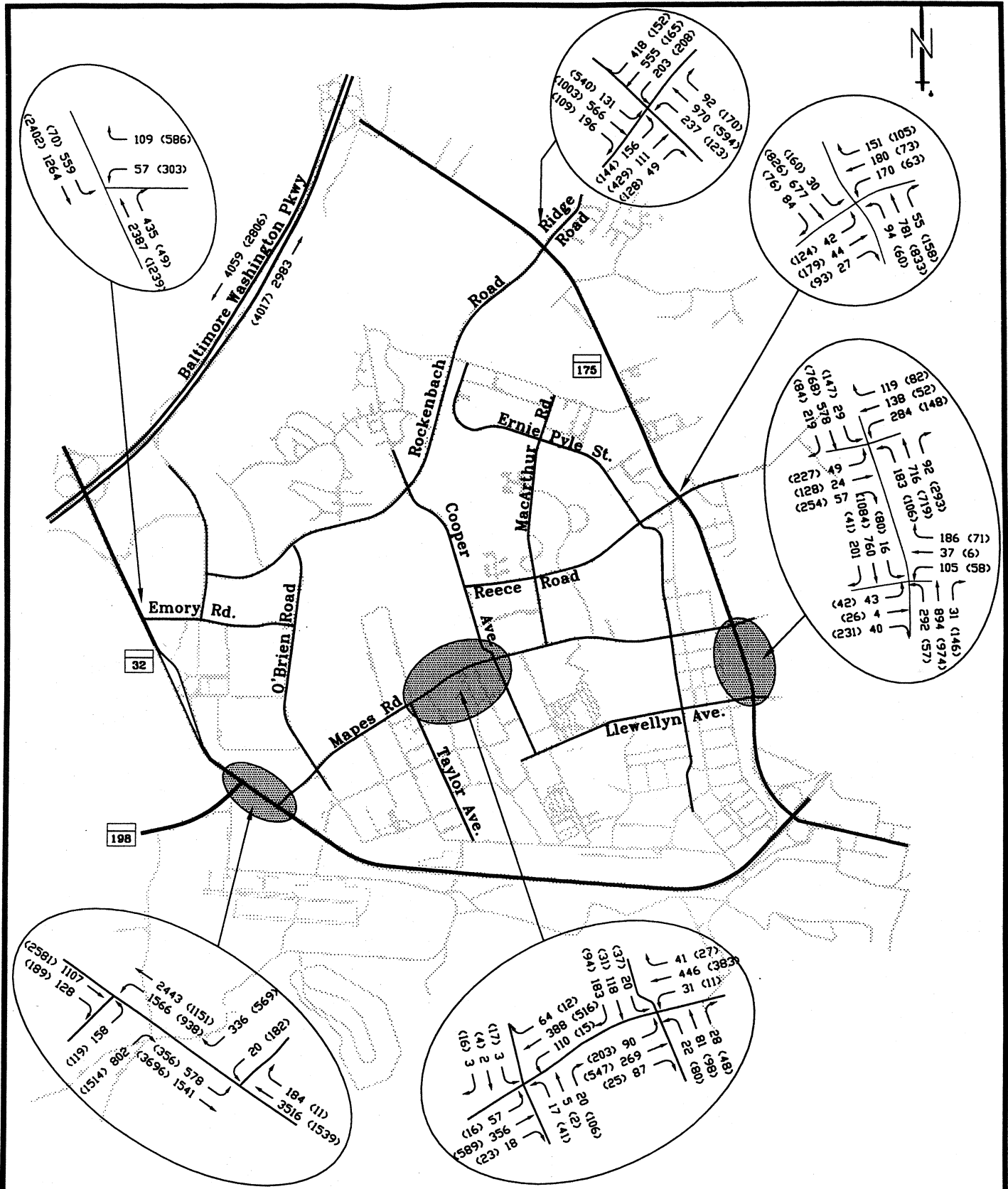
00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

FORT MEADE EIS	
Exhibit 3	Peak Hour Traffic Volumes 2003 - No Action
TTG PROJ: 1999-0521	
FILE: FtMeade	
DATE: 08 April 99	
 Versar INC. 9200 RUMSEY ROAD COLUMBIA, MARYLAND 21045 (410) 964-9200	



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

FORT MEADE EIS	
Exhibit 4	Peak Hour Traffic Volumes 2004 - No Action
TTG PROJ: 1999-0521	
FILE: FtMeade	
DATE: 08 April 99	



00 - MORNING PEAK HOUR
(00) - EVENING PEAK HOUR

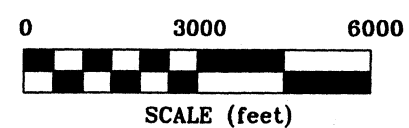
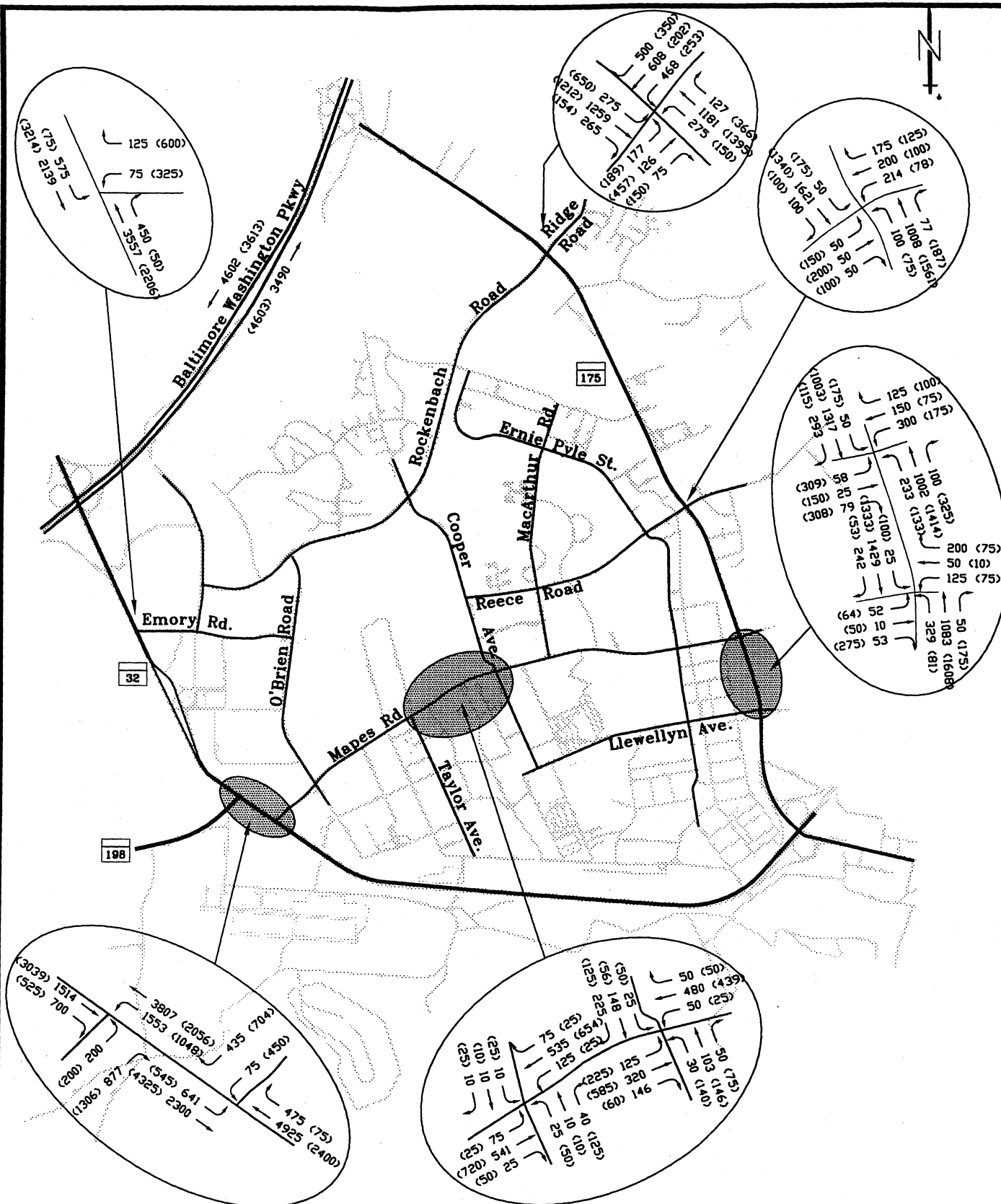
FORT MEADE EIS

Exhibit 5 Peak Hour Traffic Volumes 2005 - No Action

TTG PROJ: 1999-0521
FILE: FtMeade
DATE: 08 April 99

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00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

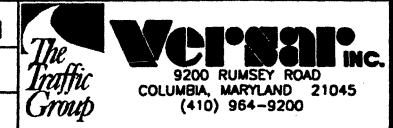
FORT MEADE EIS

Exhibit 6 Peak Hour Traffic Volumes
 2020 - No Action

ITG PROJ: 1999-0521

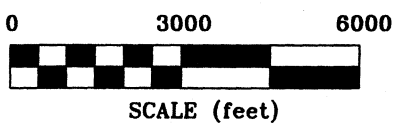
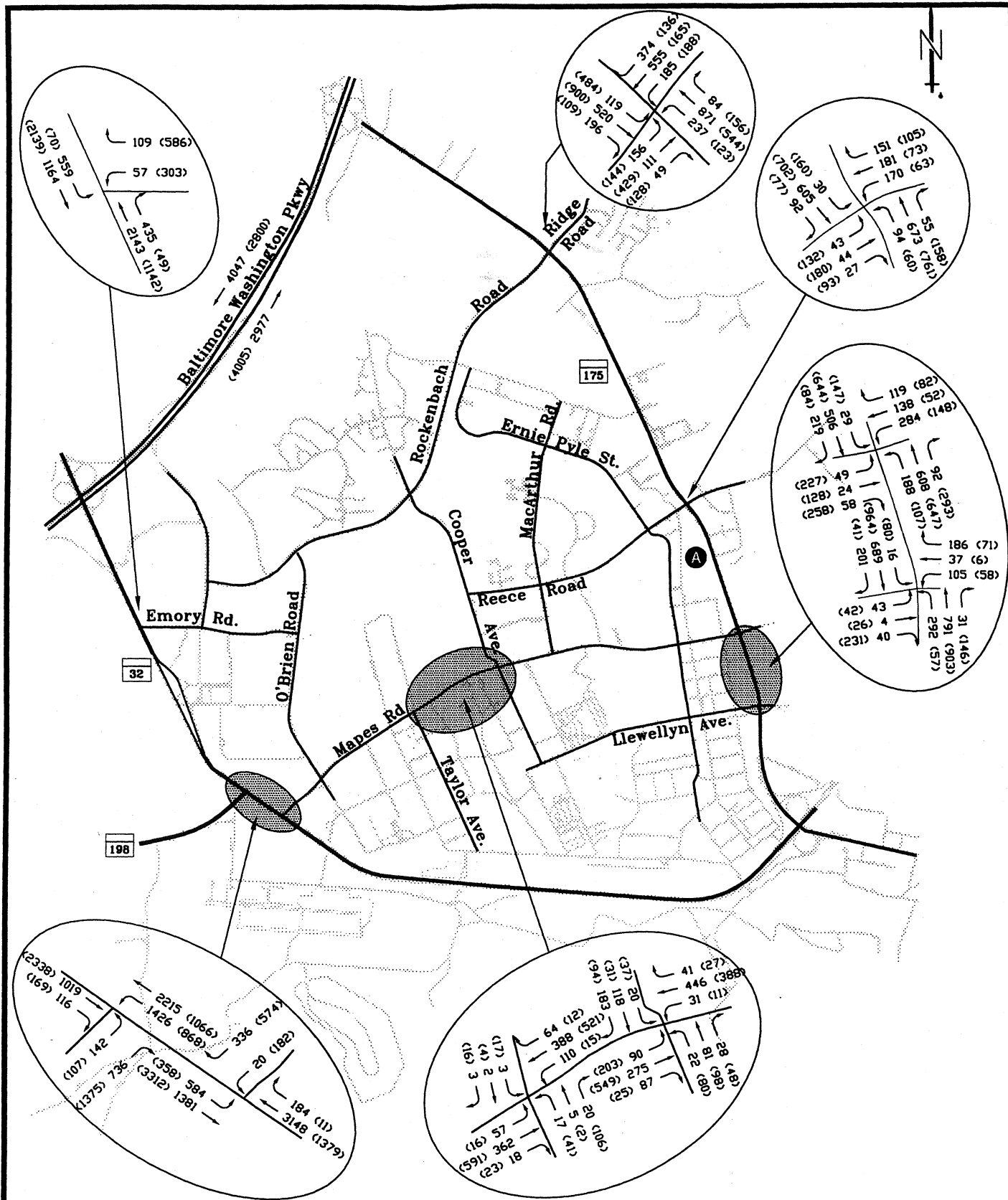
FILE: FtMeade

DATE: 08 April 99



PROPOSED ACTION

EXHIBITS 7-12



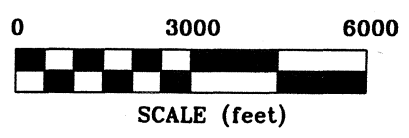
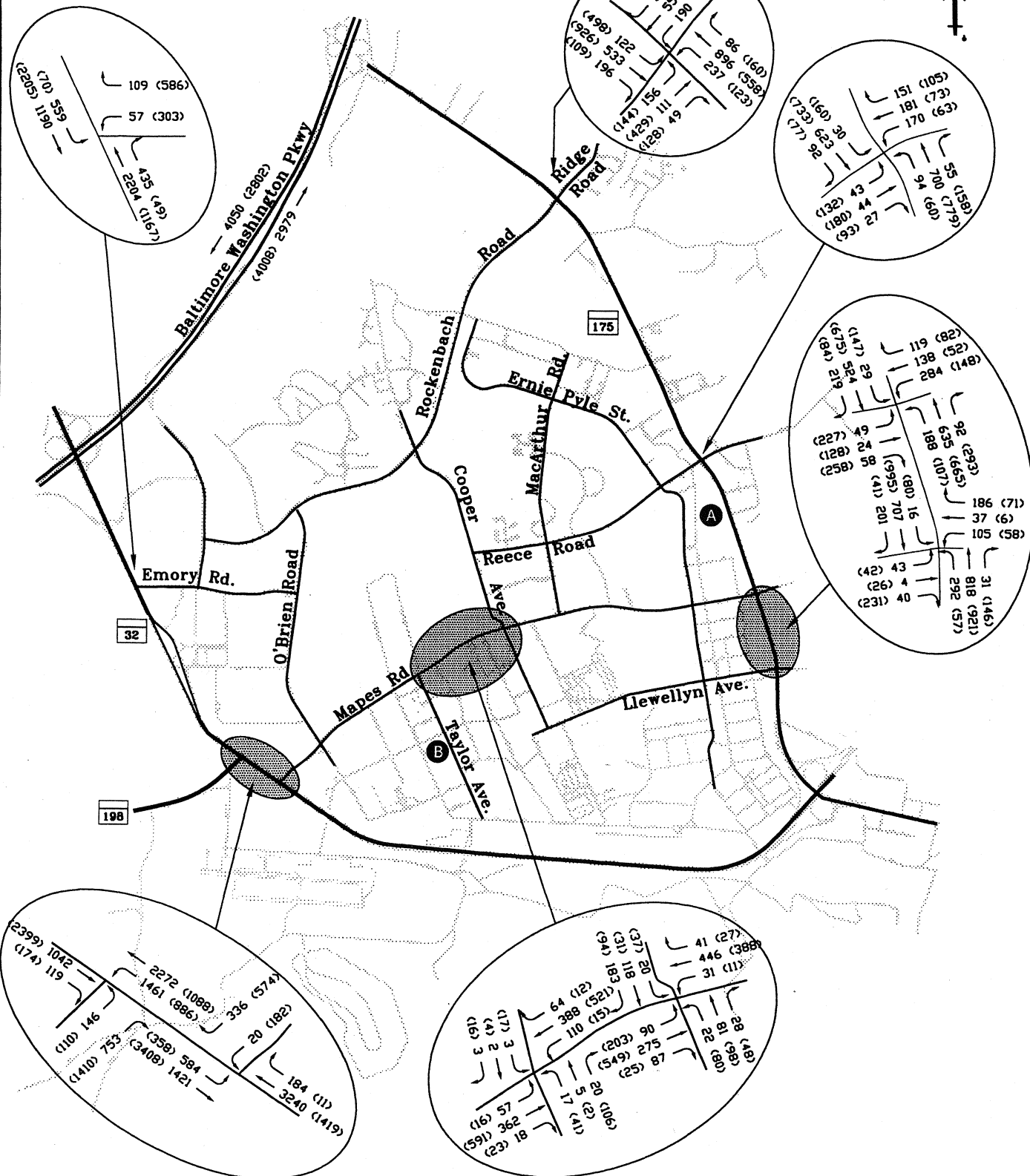
00 - MORNING PEAK HOUR
(00) - EVENING PEAK HOUR

FORT MEADE EIS

Exhibit 7 Peak Hour Traffic Volumes 2001 - Proposed Action

TTG PROJ: 1999-0521
FILE: FtMeade
DATE: 08 April 99

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(410) 964-9200



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

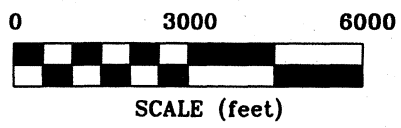
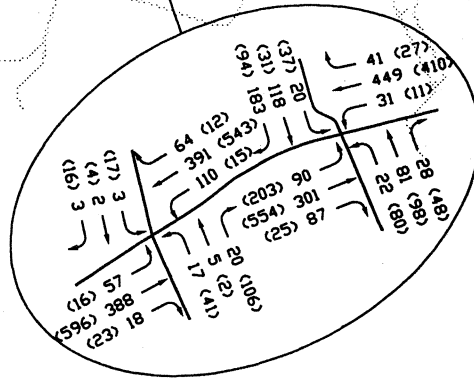
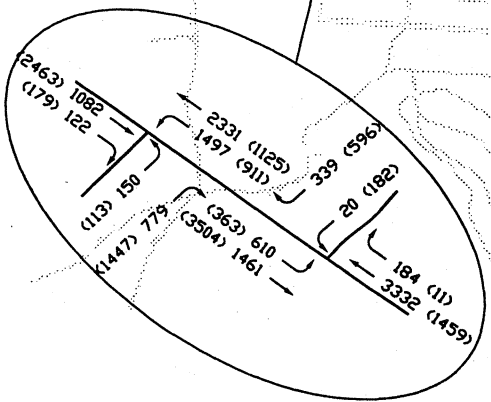
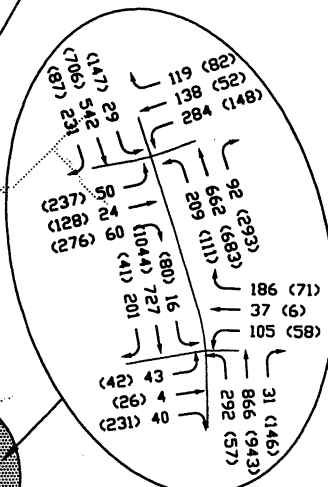
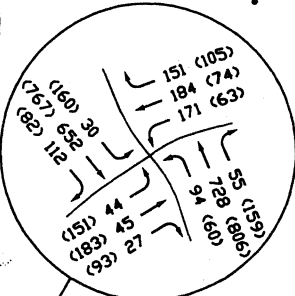
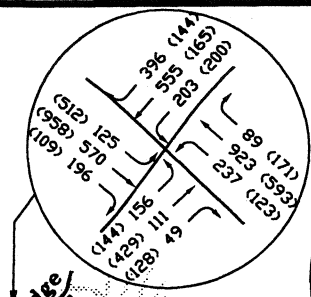
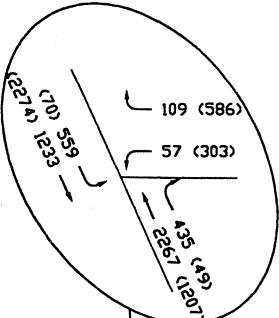
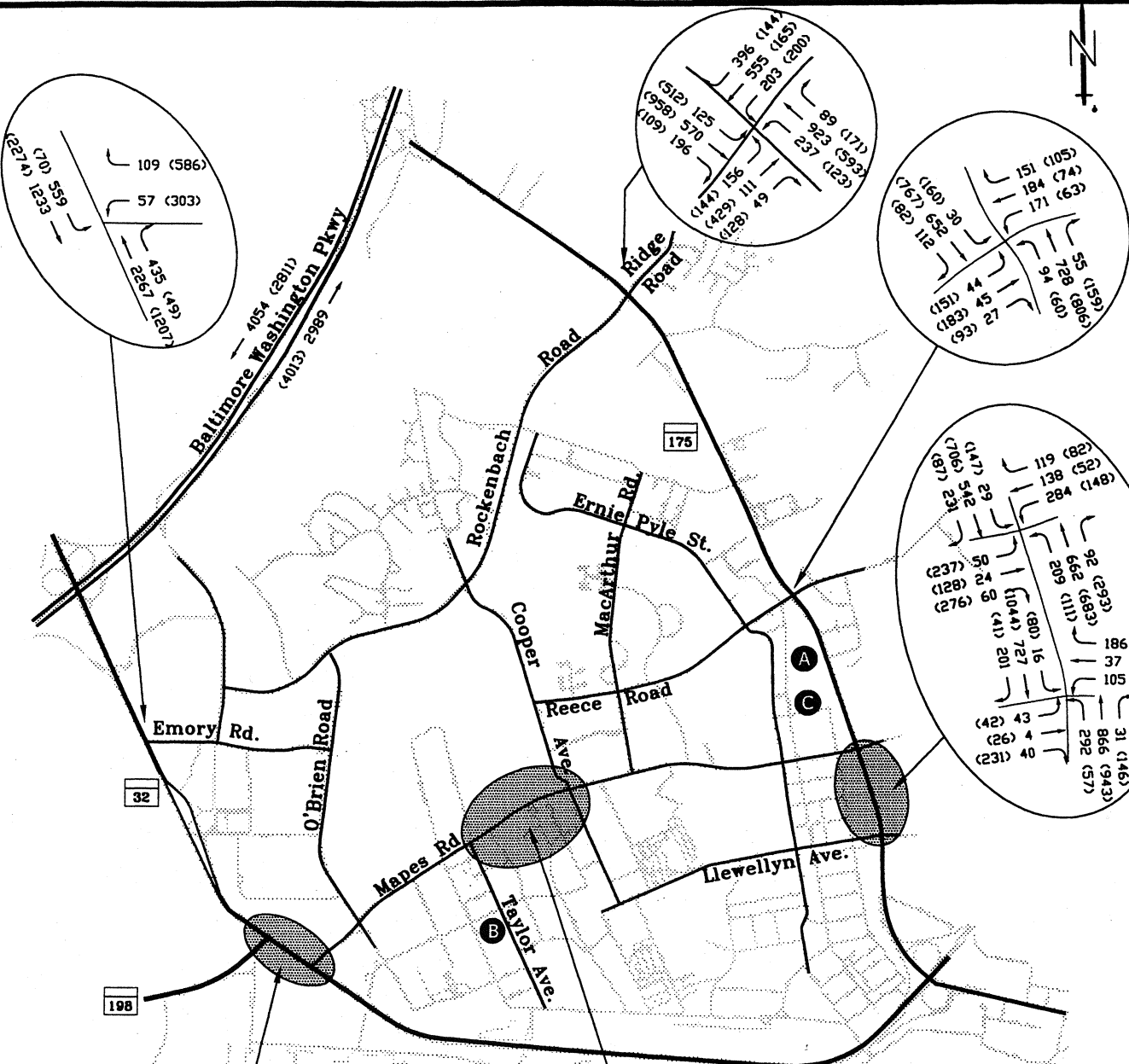
FORT MEADE EIS

Exhibit 8 Peak Hour Traffic Volumes
 2002 - Proposed Action

TTG PROJ: 1999-0521
 FILE: FtMeade
 DATE: 08 April 99

The Traffic Group

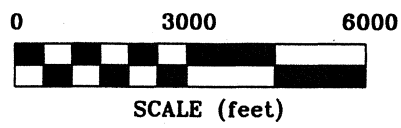
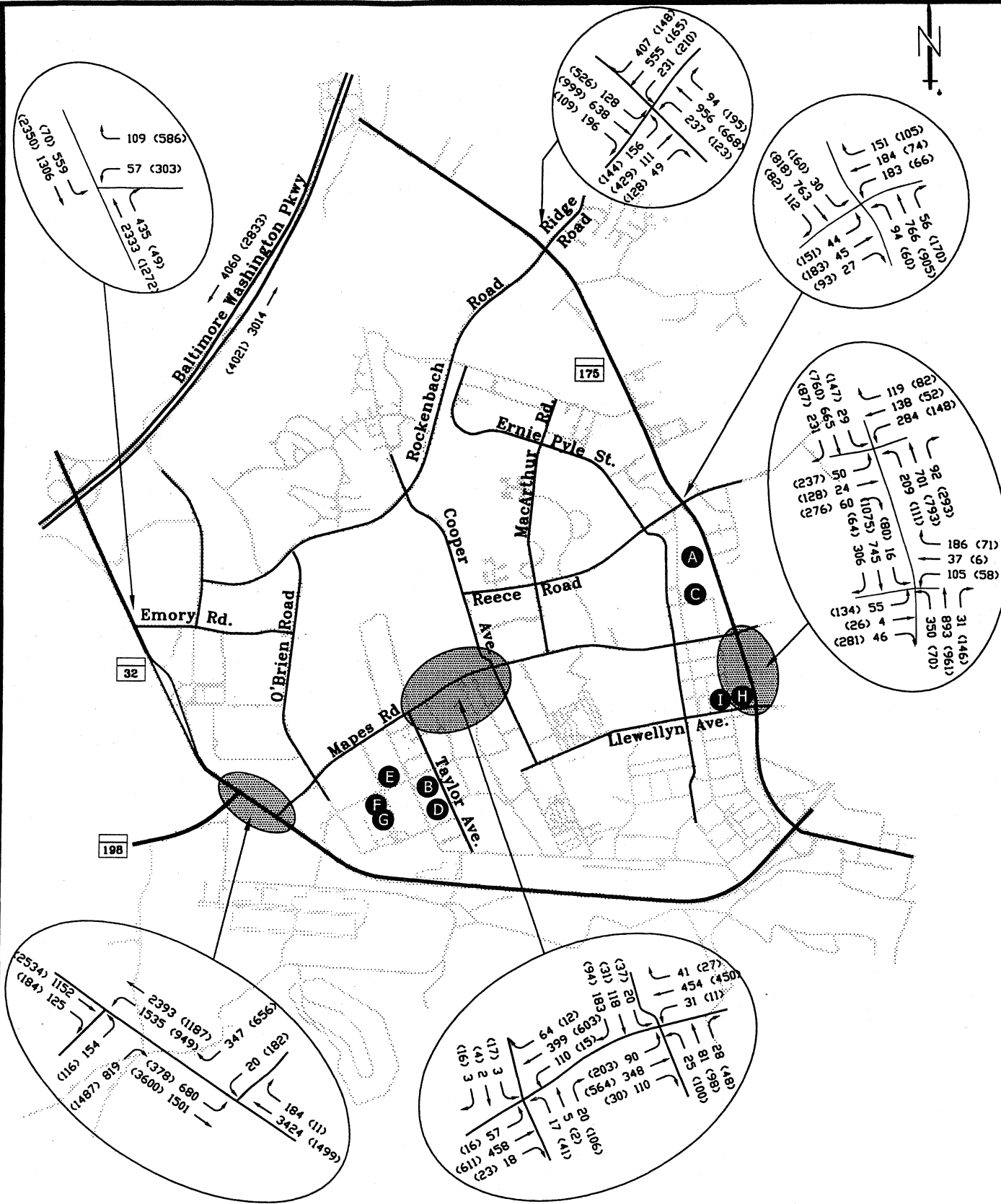
versar inc.
 9200 RUMSEY ROAD
 COLUMBIA, MARYLAND 21045
 (410) 964-9200



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

FORT MEADE EIS	
Exhibit 9	Peak Hour Traffic Volumes 2003 - Proposed Action
TTG PROJ: 1999-0521	
FILE: FtMeade	
DATE: 08 April 99	

9200 RUMSEY ROAD
 COLUMBIA, MARYLAND 21045
 (410) 964-9200



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

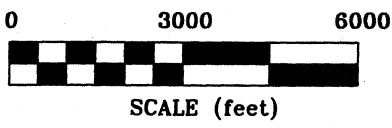
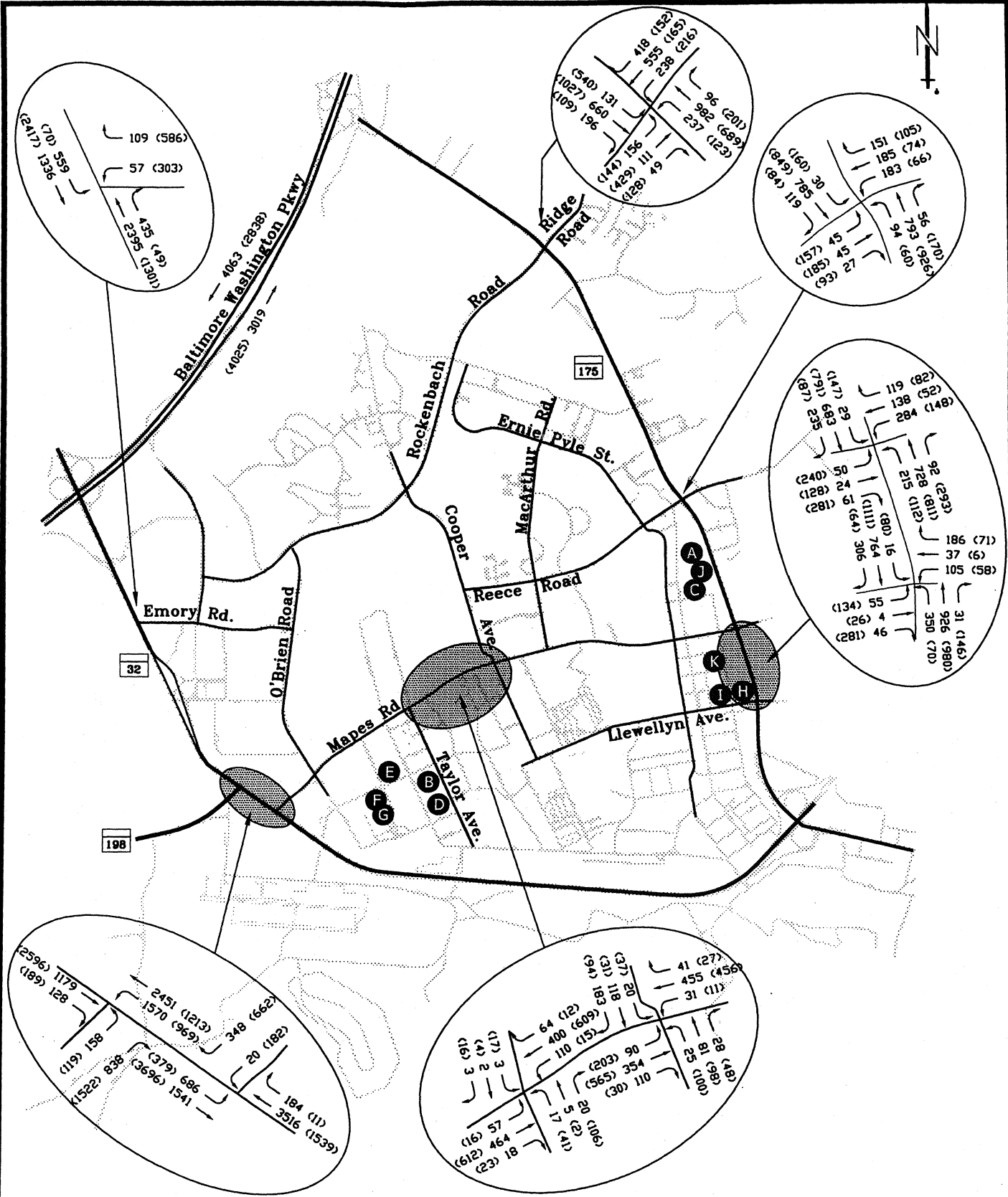
FORT MEADE EIS

Exhibit 10 Peak Hour Traffic Volumes
 2004 - Proposed Action

TTG PROJ: 1999-0521
 FILE: FtMeade
 DATE: 08 April 99

The Traffic Group

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 9200 RUMSEY ROAD
 COLUMBIA, MARYLAND 21045
 (410) 964-9200



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

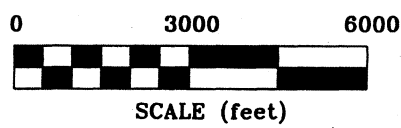
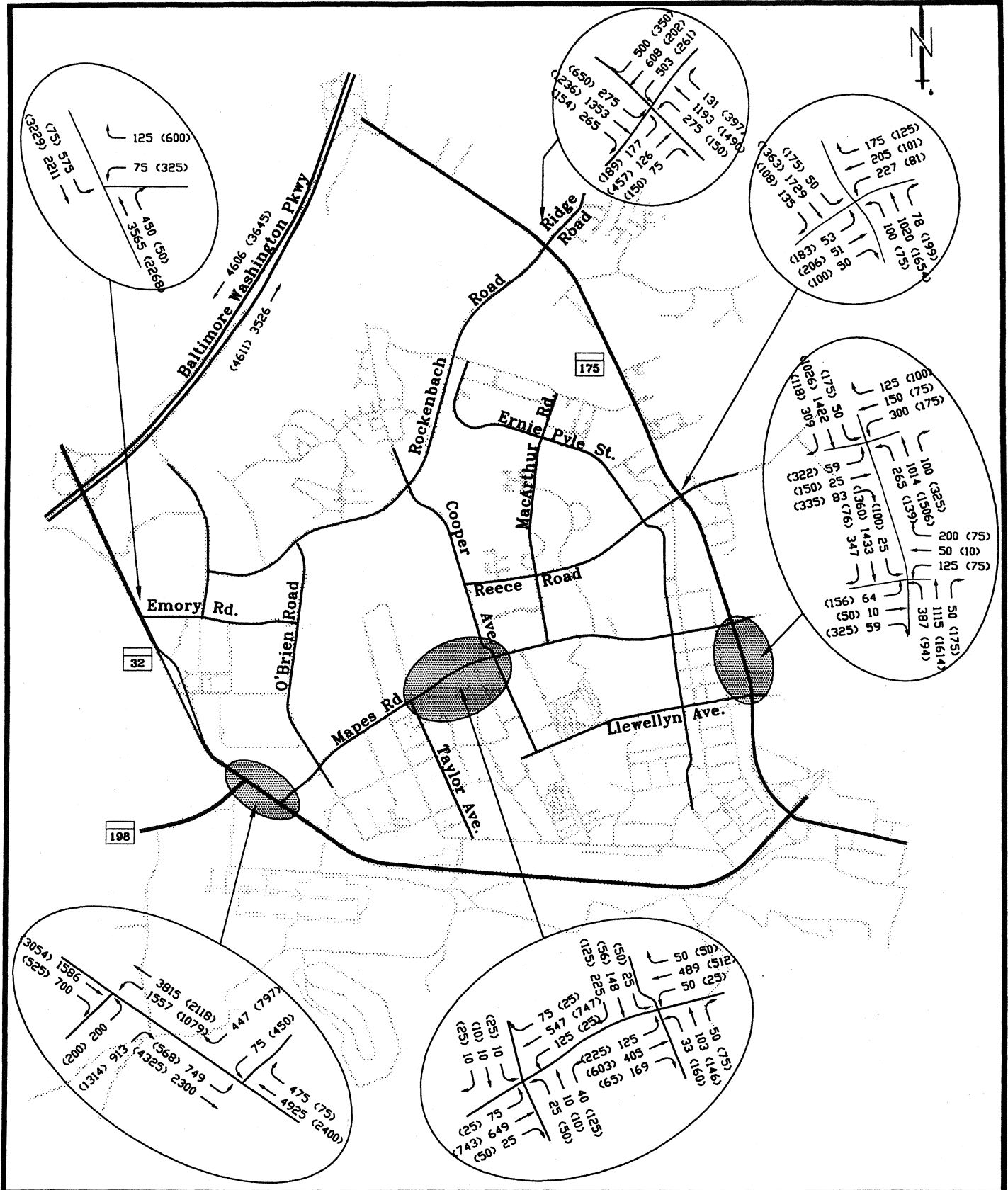
FORT MEADE EIS

Exhibit 11 Peak Hour Traffic Volumes 2005 - Proposed Action


TTG PROJ: 1999-0521

FILE: FtMeade

DATE: 08 April 99

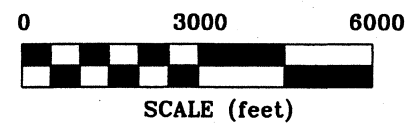
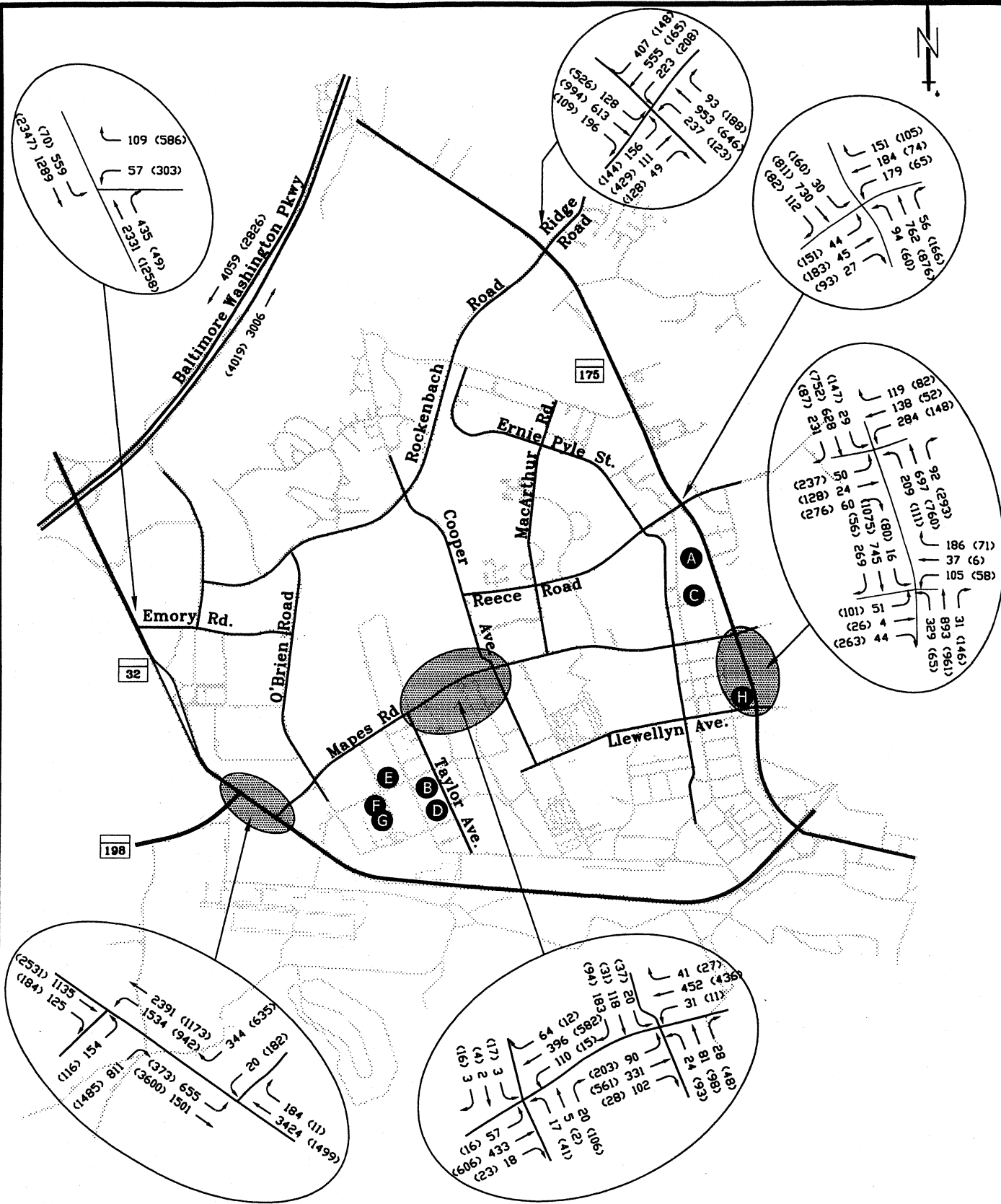


00 - MORNING PEAK HOUR
(00) - EVENING PEAK HOUR

FORT MEADE EIS	
Exhibit 12	Peak Hour Traffic Volumes 2020 - Proposed Action
TTG PROJ: 1999-0521	
FILE: FtMeade	
DATE: 08 April 99	
 Vernar INC. 9200 RUMSEY ROAD COLUMBIA, MARYLAND 21045 (410) 964-9200	

ALTERNATIVE A

EXHIBITS 13-15

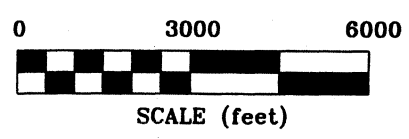
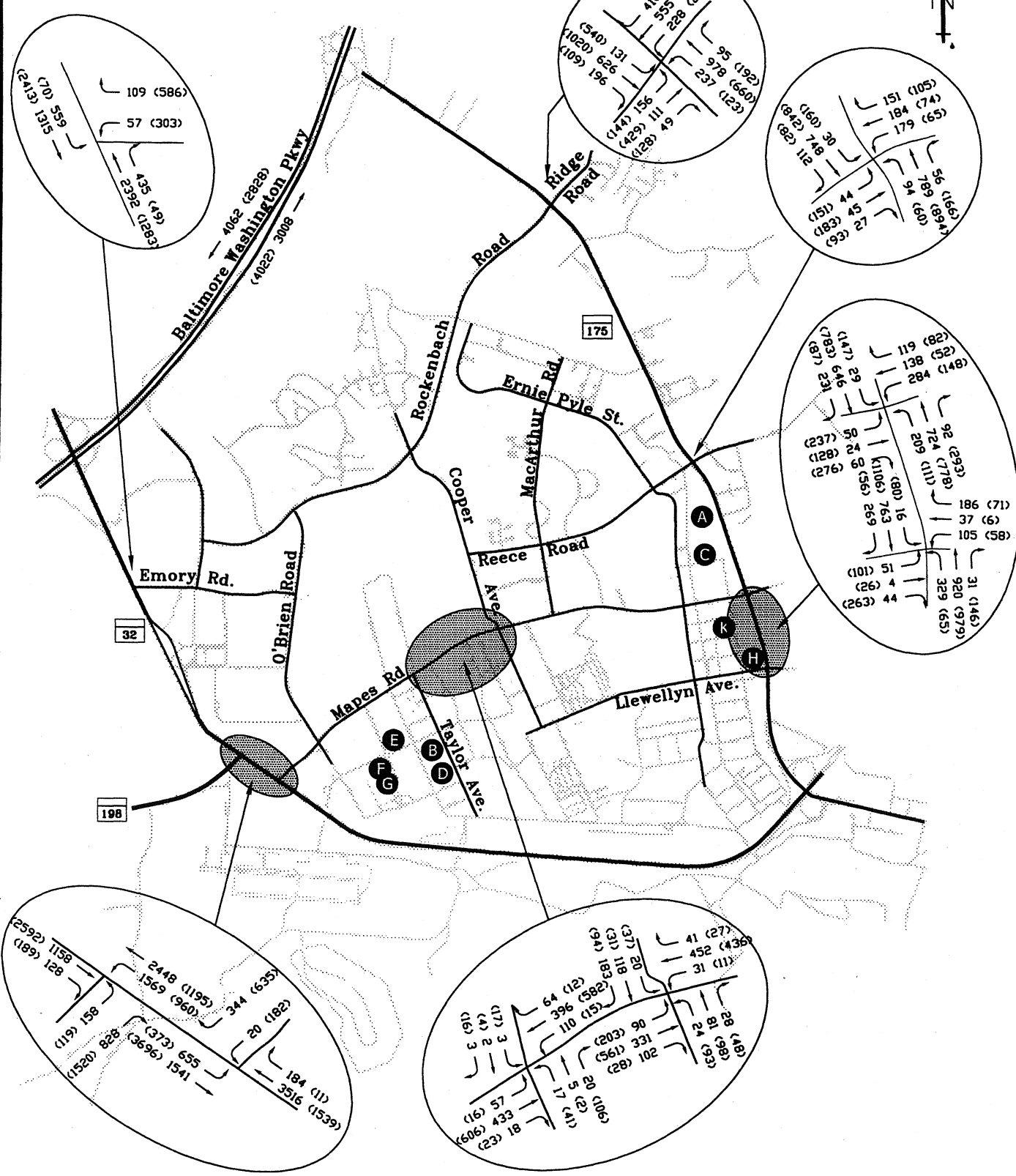


00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

FORT MEADE EIS

Exhibit 13 Peak Hour Traffic Volumes 2004 - Alternative A

TTG PROJ: 1999-0521
 FILE: FtMeade
 DATE: 08 April 99



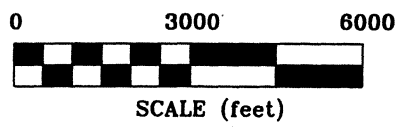
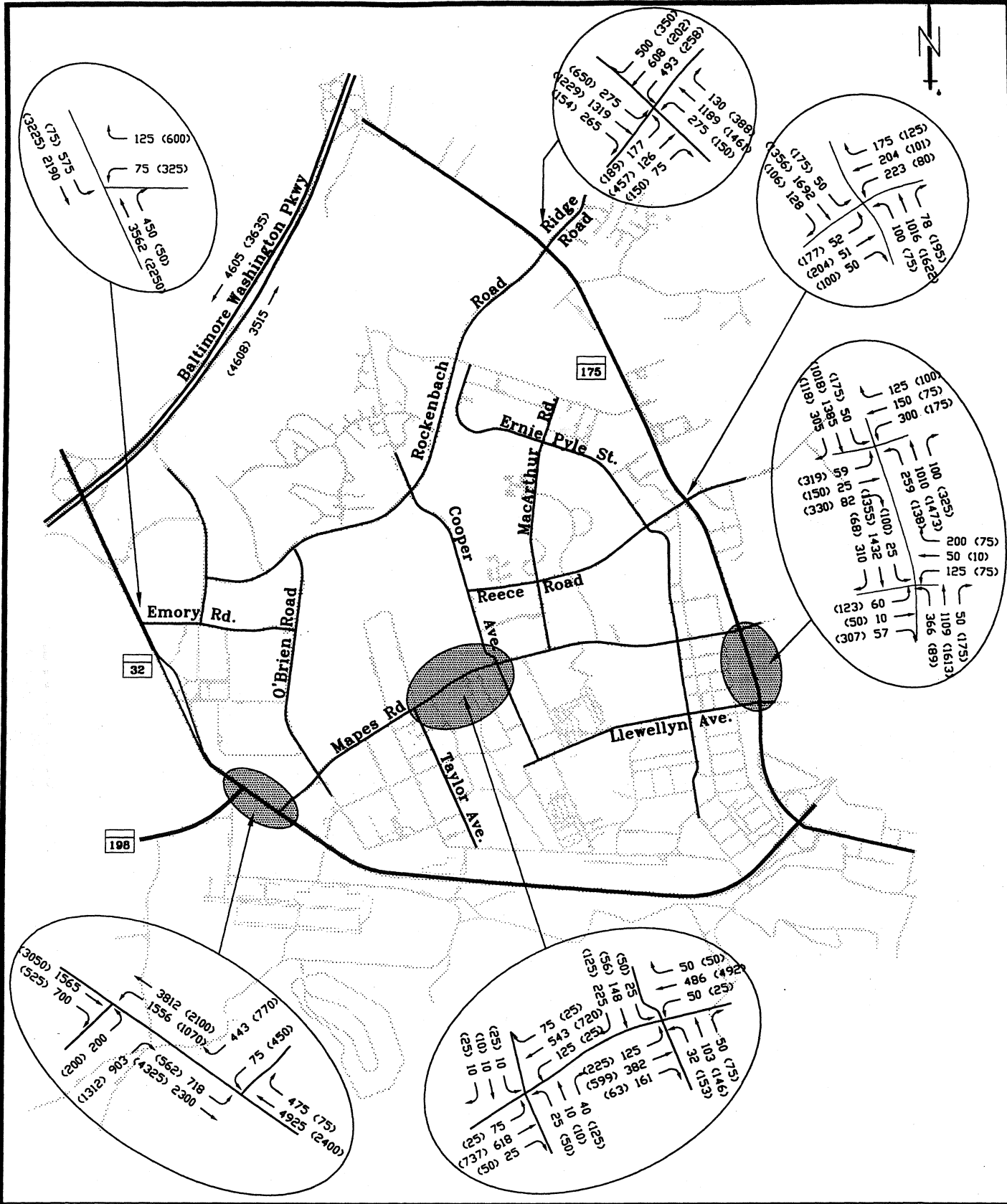
00 - MORNING PEAK HOUR
(00) - EVENING PEAK HOUR

FORT MEADE EIS

Exhibit 14 Peak Hour Traffic Volumes 2005 - Alternative A

TTG PROJ: 1999-0521
FILE: FtMeade
DATE: 08 April 99

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COLUMBIA, MARYLAND 21045
(410) 964-9200



00 - MORNING PEAK HOUR
 (00) - EVENING PEAK HOUR

FORT MEADE EIS	
Exhibit 15	Peak Hour Traffic Volumes 2020 - Alternative A
TTG PROJ: 1999-0521	 Versar Inc. 9200 RUMSEY ROAD COLUMBIA, MARYLAND 21045 (410) 964-9200
FILE: FtMeade	
DATE: 08 April 99	

APPENDIX H
SOCIOECONOMIC ANALYSIS AND DATA EIFS MODELING

EIFS MODELING

The socioeconomic and demographic impacts of the nine projects, both individually and cumulatively, were determined using the U.S. Army Corps of Engineers Economic Impact Forecast System (EIFS) model. The EIFS model was developed by the Corps of Engineers Construction Engineering Research Laboratory (CERL) to provide Department of the Army (DA) analysts with access to current economic data and to provide a defensible, easy to use model capable of assessing the socioeconomic impacts of DA actions at military installations. The EIFS model is designed to estimate the impacts of actions such as changes in mission, construction, and training, including changes mandated under Base Realignment and Closure (BRAC).

The EIFS has four types of models: (1) Forecast Models; (2) Automated input-Output Multiplier Systems (AIMS); (3) the Rational Threshold Value (RTV) and; (4) Forecast of Significance of Impacts. The Forecast Models are used for estimating the total (i.e., direct, indirect, and induced) socioeconomic impacts of DA actions. The Forecast Models use as inputs the two types of primary, direct socioeconomic impacts that occur during construction and operation: (1) changes in population owing to the transfer of military personnel and civilian employees, and (2) changes in annual purchases of goods and services during the construction and operation phases of new projects. The EIFS Forecast Model contains five different submodels, each designed to assess a different type of activity: (1) Standard EIFS Forecast Model is used for operation impacts; (2) construction model; (3) construction of on-base housing; (4) training, and (5) AR 5-20 Economic Effects Analysis. Economic base multipliers are used to calculate the indirect and induced changes in economic variables. Location quotients are used to regionalize the economic base multipliers so that they reflect the size and economic composition of the region of influence (ROI).

The EIFS model uses the RTV approach to estimate the significance of the total changes in four economic indicator variables (i.e., sales volume, employment, personal income, and population). The RTV first compiles historic time series data for each of these four variables within the ROI to identify the average annual percent change, and the maximum positive and negative yearly changes. Both absolute and percent yearly fluctuations are calculated for each of these four

variables to generate a baseline of the degree of historic fluctuation in the ROI's economy. EIFS forecasts the percent changes in each of the four indicator variables that would be caused by the Proposed Action; if the forecast change exceeds the RTV threshold then the action would have a significant economic impact.

**Socioeconomic Impacts Ft. Meade EIS
Impacts During Construction**

Characteristics & Assumptions	Project #1: Military Entrance Processing Station		Project #2: Personnel Barracks, Replacement Phase I		Project #3: Personnel Barracks, Replacement Phase II		Project #4: Dining Facility	
	Value	% Impact	Value	% Impact	Value	% Impact	Value	% Impact
Dollar volume of construction	\$ 4,100,000		\$ 20,600,000		\$ 20,600,000		\$ 6,300,000	
Local expenditures	\$ 2,314,666		\$ 11,629,783		\$ 11,629,783		\$ 3,556,681	
Percent for labor	34.2%		34.2%		34.2%		34.2%	
Percent for materials	57.8%		57.8%		57.8%		57.8%	
Percent for other	8.0%		8.0%		8.0%		8.0%	
% construction workers migrating	0.0%		0.0%		0.0%		0.0%	
Export Income Multiplier	2.2965		2.2965		2.2965		2.2965	
Impacts								
Change in sales volume - Direct	\$ 1,974,740		\$ 9,921,866		\$ 9,921,866		\$ 3,034,357	
Change in sales volume - induced	\$ 2,560,251		\$ 12,863,700		\$ 12,863,700		\$ 3,934,044	
Total	\$ 4,534,991	0.019%	\$ 22,785,566	0.095%	\$ 22,785,566	0.095%	\$ 6,968,401	0.029%
Employment - Direct	10		52		52		16	
Employment - Total	48	0.015%	242	0.076%	242	0.076%	74	0.023%
Income - Direct	\$ 256,597		\$ 1,289,245		\$ 1,289,245		\$ 394,284	
Total Income - (place of work)	\$ 1,443,690		\$ 7,253,662		\$ 7,253,662		\$ 2,218,353	
Total Income - (place of residence)	\$ 1,443,690	0.009%	\$ 7,253,662	0.044%	\$ 7,253,662	0.044%	\$ 2,218,353	0.013%
Local Population	0	0.000%	0	0.000%	0	0.000%	0	0.000%
Local off-base population	0		0		0		0	
Number of School Children	0		0		0		0	
Demand for Housing - Rental	0		0		0		0	
Demand for Housing - Owner Occupied	0		0		0		0	
Government Expenditures	\$ 64,354		\$ 323,338		\$ 323,338		\$ 98,885	
Government Revenues	\$ 83,064		\$ 417,347		\$ 417,347		\$ 127,635	
Net Government Revenues	\$ 18,711		\$ 94,010		\$ 94,010		\$ 28,751	
Civilian Employees Expected to relocate	0		0		0		0	
Military Employees Expected to relocate	0		0		0		0	

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**Socioeconomic Impacts Ft. Meade EIS
Impacts During Construction**

Characteristics & Assumptions	Project #5: Company Headquarters		Project #6: Battalion Operations		Project #7: Bold Venture I		Project #8: Bold Venture II	
	Value	% Impact	Value	% Impact	Value	% Impact	Value	% Impact
Dollar volume of construction	\$ 1,400,000		\$ 1,500,000		\$ 4,600,000		\$ 16,500,000	
Local expenditures	\$ 790,374		\$ 846,829		\$ 2,596,942		\$ 9,315,118	
Percent for labor	34.2%		34.2%		34.2%		34.2%	
Percent for materials	57.8%		57.8%		57.8%		57.8%	
Percent for other	8.0%		8.0%		8.0%		8.0%	
% construction workers migrating	0.0%		0.0%		0.0%		0.0%	
Export Income Multiplier	2.2965		2.2965		2.2965		2.2965	
Impacts								
Change in sales volume - Direct	\$ 674,302		\$ 722,466		\$ 2,215,562		\$ 7,947,126	
Change in sales volume - induced	\$ 874,232		\$ 936,677		\$ 2,872,477		\$ 10,303,449	
Total	\$ 1,548,534	0.006%	\$ 1,659,143	0.007%	\$ 5,088,039	0.021%	\$ 18,250,575	0.076%
Employment - Direct	4		4		12		42	
Employment - Total	16	0.005%	18	0.005%	54	0.017%	194	0.060%
Income - Direct	\$ 87,619		\$ 93,877		\$ 287,890		\$ 1,032,647	
Total Income - (place of work)	\$ 492,967		\$ 528,179		\$ 1,619,750		\$ 5,809,972	
Total Income - (place of residence)	\$ 492,967	0.003%	\$ 528,179	0.003%	\$ 1,619,750	0.010%	\$ 5,809,972	0.035%
Local Population	0	0.000%	0	0.000%	0	0.000%	0	0.000%
Local off-base population	0		0		0		0	
Number of School Children	0		0		0		0	
Demand for Housing - Rental	0		0		0		0	
Demand for Housing - Owner Occupied	0		0		0		0	
Government Expenditures	\$ 21,974		\$ 23,544		\$ 72,202		\$ 258,984	
Government Revenues	\$ 28,363		\$ 30,389		\$ 93,194		\$ 334,283	
Net Government Revenues	\$ 6,389		\$ 6,845		\$ 20,992		\$ 75,299	
Civilian Employees Expected to relocate	0		0		0		0	
Military Employees Expected to relocate	0		0		0		0	

**Socioeconomic Impacts Ft. Meade EIS
Impacts During Construction**

Characteristics & Assumptions	Project #9: Bold Venture III		Project #10: Bold Venture IV		Project #11: USA 1st Recruiting Brigade, Army Medical Detachment I		Totals
	Value	% Impact	Value	% Impact	Value	% Impact	
Dollar volume of construction	\$ 4,600,000		\$ 1,400,000		\$ 6,200,000		\$ 87,800,000
Local expenditures	\$ 2,596,942		\$ 790,374		\$ 3,500,226		\$ 49,567,717
Percent for labor	34.2%		34.2%		34.2%		
Percent for materials	57.8%		57.8%		57.8%		
Percent for other	8.0%		8.0%		8.0%		
% construction workers migrating	0.0%		0.0%		0.0%		
Export Income Multiplier	2.2965		2.2965		2.2965		
Impacts							
Change in sales volume - Direct	\$ 2,215,562		\$ 674,302		\$ 2,986,193		
Change in sales volume - induced	\$ 2,872,477		\$ 874,232		\$ 3,871,599		
Total	\$ 5,088,039	0.021%	\$ 1,548,534	0.006%	\$ 6,857,792	0.028%	
Employment - Direct	12		4		16		
Employment - Total	54	0.017%	16	0.005%	73	0.023%	
Income - Direct	\$ 287,890		\$ 87,619		\$ 388,025		
Total Income - (place of work)	\$ 1,619,750		\$ 492,967		\$ 2,183,141		
Total Income - (place of residence)	\$ 1,619,750	0.010%	\$ 492,967	0.003%	\$ 2,183,141	0.013%	
Local Population	0	0.000%	0	0.000%	0	0.000%	
Local off-base population	0		0		0		
Number of School Children	0		0		0		
Demand for Housing - Rental	0		0		0		
Demand for Housing - Owner Occupied	0		0		0		
Government Expenditures	\$ 72,202		\$ 21,974		\$ 97,315		
Government Revenues	\$ 93,194		\$ 28,363		\$ 125,609		
Net Government Revenues	\$ 20,992		\$ 6,389		\$ 28,294		
Civilian Employees Expected to relocate	0		0		0		
Military Employees Expected to relocate	0		0		0		

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**Socioeconomic Impacts Ft. Meade EIS
Impacts During Operation**

Characteristics & Assumptions	Project #1: Military Entrance Processing Station		Project #2: Personnel Barracks, Replacement Phase I		Project #3: Personnel Barracks, Replacement Phase II		Project #4: Dining Facility	
	Value	% Impact	Value	% Impact	Value	% Impact	Value	% Impact
Change in local expenditures	\$ 1,673,052		\$ -		\$ -		\$ -	
Local expenditures	944,526		-		-		-	
Change in Civilian employment	50		-		-		-	
Average income of civilian personnel	\$ 46,309		\$ 46,309		\$ 46,309		\$ 46,309	
% Expected to relocate	25%							
Change in military employment								
Export Income Multiplier	2.2965		2.2965		2.2965		2.2965	
Impacts								
Change in sales volume - Direct	2,670,840		-		-		-	
Change in sales volume - induced	\$ 3,462,745		\$ -		\$ -		\$ -	
Total	\$ 6,133,585	0.025%	\$ -	0.000%	\$ -	0.000%	\$ -	0.000%
Employment - Direct	14		-		-		-	
Employment - Total	83	0.026%	-	0.000%	-	0.000%	-	0.000%
Income - Direct	347,602		-		-		-	
Total Income - (place of work)	3,113,165		-		-		-	
Total Income - (place of residence)	\$ 3,113,165	0.019%	\$ -	0.000%	\$ -	0.000%	\$ -	0.000%
Local Population	34	0.006%	-	0.000%	-	0.000%	-	0.000%
Local off-base population	34		-		-		-	
Number of School Children	5		-		-		-	
Demand for Housing - Rental	3		-		-		-	
Demand for Housing - Owner Occupied	9.075342466		0		0		0	
Government Expenditures	\$ 153,686		\$ -		\$ -		\$ -	
Government Revenues	195,647		-		-		-	
Net Government Revenues	41,961		-		-		-	
Civilian Employees Expected to relocate	13		0		0		0	
Military Employees Expected to relocate	0		0		0		0	

**Socioeconomic Impacts Ft. Meade EIS
Impacts During Operation**

Characteristics & Assumptions	Project #5: Company Headquarters		Project #6: Battalion Operations		Project #7: Bold Venture I		Project #8: Bold Venture II	
	Value	% Impact	Value	% Impact	Value	% Impact	Value	% Impact
Change in local expenditures	\$ -		\$ -		\$ 7,026,817		\$ 12,715,192	
Local expenditures	-		-		3,967,007.40		7,178,394.34	
Change in Civilian employment	-		-		210		380	
Average income of civilian personnel	\$ 46,309		\$ 46,309		\$ 46,309		\$ 46,309	
% Expected to relocate					25%		25%	
Change in military employment								
Export Income Multiplier	2.2965		2.2965		2.2965		2.2965	
Impacts								
Change in sales volume - Direct	-		-		11,217,530		20,298,387	
Change in sales volume - induced	\$ -		\$ -		\$ 14,543,527		\$ 26,316,859	
Total	\$ -	0.000%	\$ -	0.000%	\$ 25,761,057	0.107%	\$ 46,615,246	0.194%
Employment - Direct	-		-		60		109	
Employment - Total	-	0.000%	-	0.000%	348	0.108%	629	0.196%
Income - Direct	-		-		1,459,928		2,641,775	
Total Income - (place of work)	-		-		13,075,293		23,660,054	
Total Income - (place of residence)	\$ -	0.000%	\$ -	0.000%	\$ 13,075,293	0.079%	\$ 23,660,054	0.143%
Local Population	-	0.000%	-	0.000%	141	0.024%	255	0.044%
Local off-base population	-		-		141		255	
Number of School Children	-		-		20		37	
Demand for Housing - Rental	-		-		14		26	
Demand for Housing - Owner Occupied	0		0		38.11643836		68.97260274	
Government Expenditures	\$ -		\$ -		\$ 645,479		\$ 1,168,010	
Government Revenues	-		-		821,717		1,486,916	
Net Government Revenues	-		-		176,238		318,906	
Civilian Employees Expected to relocate	0		0		53		95	
Military Employees Expected to relocate	0		0		0		0	

**Socioeconomic Impacts Ft. Meade EIS
Impacts During Operation**

Characteristics & Assumptions	Project #9: Bold Venture III		Project #10: Bold Venture IV		Project #11: USA 1st Recruiting Brigade, Army Medical DetachmentI		Totals
	Value	% Impact	Value	% Impact	Value	% Impact	
Change in local expenditures	\$ 7,026,817		\$ 2,074,584		\$ -		\$ 30,516,460
Local expenditures	3,967,007.40		1,171,211.71		-		\$ 17,228,146
Change in Civilian employment	210		62		-		912
Average income of civilian personnel	\$ 46,309		\$ 46,309		\$ 46,309		
% Expected to relocate	25%		25%				
Change in military employment							
Export Income Multiplier	2.2965		2.2965		2.2965		
Impacts							
Change in sales volume - Direct	11,217,530		3,311,842		-		\$ 48,716,129
Change in sales volume - induced	\$ 14,543,527		\$ 4,293,803		\$ -		\$ 63,160,462
Total	\$ 25,761,057	0.107%	\$ 7,605,645	0.032%	\$ -	0.000%	\$ 111,876,591
Employment - Direct	60		18		-		261
Employment - Total	348	0.108%	103	0.032%	-	0.000%	1,510
Income - Direct	1,459,928		431,026		-		\$ 6,340,260
Total Income - (place of work)	13,075,293		3,860,325		-		\$ 56,784,130
Total Income - (place of residence)	\$ 13,075,293	0.079%	\$ 3,860,325	0.023%	\$ -	0.000%	\$ 56,784,130
Local Population	141	0.024%	42	0.007%	-	0.000%	611
Local off-base population	141		42		-		611
Number of School Children	20		6		-		88
Demand for Housing - Rental	14		4		-		62
Demand for Housing - Owner Occupied	38.11643836		11.25342466		0		166
Government Expenditures	\$ 645,479		\$ 190,570		\$ -		\$ 2,803,225
Government Revenues	821,717		242,602		-		\$ 3,568,600
Net Government Revenues	176,238		52,032		-		\$ 765,375
Civilian Employees Expected to relocate	53		16		0		228
Military Employees Expected to relocate	0		0		0		0

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APPENDIX A
INTERAGENCY COORDINATION AND CORRESPONDENCE

11292

Federal Register / Vol. 65, No. 42 / Thursday, March 2, 2000 / Notices

Southwest Region, NMFS, 501 West Ocean Blvd., Suite 4200, Long Beach, CA 90802-4213 (310/980-4001); Northwest Region, NMFS, 7600 Sand Point Way, NE, BIN C15700, Bldg. 1, Seattle, WA 98115-0070 (206/526-6150); and Alaska Region, NMFS, P.O. Box 21668, Juneau, AK 99802-1668 (907/586-7221).

Dated: February 25, 2000.

Ann D. Terbush,

Chief, Permits and Documentation Division, Office of Protected Resources, National Marine Fisheries Service.

[FR Doc. 00-5068 Filed 3-1-00; 8:45 am]

BILLING CODE 3510-22-F

COMMODITY FUTURES TRADING COMMISSION

Applications of the Chicago Mercantile Exchange for Designation as a Contract Market for Futures and Options on the FORTUNE e-50 Index™

AGENCY: Commodity Futures Trading Commission.

ACTION: Notice of availability of terms and conditions of proposed commodity futures and options contracts.

SUMMARY: The Chicago Mercantile Exchange (CME or Exchange) has applied for designation as a contract market for futures and options on the FORTUNE e-50 Index™. The Acting Director of the Division of Economic Analysis (Division) of the Commission, acting pursuant to the authority delegated by Commission Regulation 140.96, has determined that publication of the proposals for comment is in the public interest, will assist the Commission in considering the views of interested persons, and is consistent with the purpose of the Commodity Exchange Act.

DATES: Comments must be received on or before April 3, 2000.

ADDRESSES: Interested persons should submit their views and comments to Jean A. Webb, Secretary, Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW, Washington, DC 20581. In addition, comments may be sent by facsimile transmission to facsimile number (202) 418-5521 or by electronic mail to secretary@cftc.gov. Reference should be made to the Chicago Mercantile Exchange (CME) for futures and options on the FORTUNE e-50 Index™.

FOR FURTHER INFORMATION CONTACT: Please contact Thomas Leahy of the Division of Economic Analysis,

Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW., Washington, DC (202) 418-5278. Facsimile number: (202) 418-5527. Electronic mail: tleahy@cftc.gov

SUPPLEMENTARY INFORMATION: Copies of the terms and conditions will be available for inspection at the Office of the Secretariat, Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW., Washington, DC 20581. Copies of the terms and conditions can be obtained through the Office of the Secretariat by mail at the above address or by phone at (202) 418-5100.

Other materials submitted by the CME in support of the applications for contract market designation may be available upon request pursuant to the Freedom of Information Act (5 U.S.C. 552) and the Commission's regulations thereunder (17 CFR Part 145 (1997)), except to the extent they are entitled to confidential treatment as set forth in 17 CFR 145.5 and 145.9. Requests for copies of such materials should be made to the FOI, Privacy and Sunshine Act Compliance Staff of the Office of Secretariat at the Commission's headquarters in accordance with 17 CFR 145.7 and 145.8.

Any person interested in submitted written data, views, or arguments on the proposed terms and conditions, or with respect to other materials submitted by the CME should send such comments to Jean A. Webb, Secretary, Commodity Futures Trading Commission, Three Lafayette Centre, 1155 21st Street, NW, Washington, DC 20581 by the specified date.

Issued in Washington, DC, on February 25, 2000.

Richard A. Shilts,

Acting Director.

[FR Doc. 00-4967 Filed 3-1-00; 8:45 am]

BILLING CODE 6301-01-M

DEPARTMENT OF DEFENSE

Department of the Army

Notice of Intent (NOI) To Prepare an Environmental Impact Statement for the Future Development and Operations at Fort Meade, MD

AGENCY: Department of the Army, DOD.

ACTION: Notice of availability.

SUMMARY: The U.S. Army Fort George G. Meade, Maryland, announces its intent to prepare an Environmental Impact Statement (EIS) that will address the future development and operations of

Fort Meade's Real Property Master Plan (RPMP) for the Years 2000-2004. The planned projects which will occur during this time include the following: construction of new facilities that will consolidate tenants from dilapidated World War II structures and off post leased facilities into more cost efficient and effective facilities, demolition and construction of barracks and mess halls and providing on post development opportunities for tenants on installations that are currently faced with Base Realignment and Closure. It is the purpose of this EIS to further assess the impacts, most specifically to air and traffic, that were identified in the Environmental Assessment entitled "Future Development and Operations Environmental Assessment" dated April 1999.

ADDRESSES: Questions or written comments may be forwarded to the U.S. Army Corps of Engineers, Baltimore District, Planning Division, Planning and Environmental Services Branch (Attn: Ft. Meade EIS), 10 South Howard Street, P.O. Box 1715, Baltimore, Maryland 21203-1715, Telephone (410) 962-4939.

FOR FURTHER INFORMATION CONTACT: Mr. Jim Gebhardt, Environmental Engineer, Directorate of Public Works Environmental Management Office, at (301) 677-9365.

SUPPLEMENTARY INFORMATION: The Fort Meade RPMP has the potential to significantly impact certain natural, economic, social and cultural resources of the Fort Meade community. The objective is to prepare a comprehensive EIS which will serve as a planning tool, a public information source and a reference for mitigation tracking.

Alternatives may consist of alternate locations for specific projects, partial implementation of the specific project or modifications to the specific project. The alternatives will be developed during the preparation of the Draft EIS (DEIS) as a result of public input and the environmental analysis of the proposals within the plan. The objective Fort Meade's DEIS is to identify and evaluate any environmental implications that may result from developing the Master Plan. The DEIS will describe the impacts of existing environmental, cultural and natural resources, social, economic and environmental justice conditions associated with the proposed projects at Fort Meade.

The Army will initiate a scoping process to discuss significant issues related to the DEIS through public meetings and local publications. These efforts are designed to encourage public

input that will inevitably help determine and better define the underlying issues of the DEIS. Planned public meetings will be announced through local publications and online Internet access in advance of any proposed action, announcing meeting time and location.

A public meeting will be held on Fort Meade to facilitate input to the EIS process by citizens and organizations. The date and time of these meetings will be announced in the general media and will be at times and locations convenient to the public. To be considered in the Draft EIS, comments and suggestions should be received not later than 15 days following the public scoping meeting.

Significant issues: Within Fort Meade's boundaries lie numerous historic and prehistoric sites that were identified through the Cultural Resources Management Plan. Fort Meade also maintains historically significant structures which are eligible for inclusion on the National Register and may be directly affected by the actions proposed in the long range Master Plan. Equally important is the impact Fort Meade has on the Chesapeake Bay and the crucial role it plays in maintaining and protecting which is considered one of the world's most diverse ecosystems. Fort Meade is also home to eleven State Endangered Species, including the Glassy Darter which is one of only two locations in the State of Maryland where the fish is known to exist.

Dated: February 24, 2000.

Raymond J. Faiz,

Deputy Assistant Secretary of the Army
(Environment, Safety and Occupational Health) OASA(10E).

[FR Doc. 00-5082 Filed 3-1-00; 8:45 am]

BILLING CODE 3710-08-M

DEPARTMENT OF EDUCATION

National Assessment Governing Board; Information Collection Request

AGENCY: National Assessment Governing Board; Department of Education.

ACTION: Notice of amended information collection request.

SUMMARY: The National Assessment Governing Board (NAGB) is amending the Notices of Proposed Information Collection Request (ICR) published on January 18, 2000 and revised on February 18, 2000. The present notice is to inform the public that the Governing Board has cancelled one of two proposed research studies. The study

that was cancelled is on the feasibility of establishing a calibration linkage between a test form resembling an individual test and a survey of group results—the National Assessment of Educational Progress. The study is described in the January 18 and February 18, 2000 notices.

ADDRESSES: Written comments should be addressed to the Office of Information and Regulatory Affairs; Attention: Danny Werfel, Desk Officer; Department of Education; Office of Management and Budget; 725 17th Street, N.W., Room 10235; New Executive Office Building; Washington, D.C. 20503 or should be electronically mailed to the internet address DWERFEL@OMB.EOP.GOV. Submit written comments, on or before March 17, 2000, identified by "ICR: VNT Research and Validation Support Studies (Option Year 2)." The National Assessment Governing Board will forward to OMB any comments received from the public in response to the January 18, 2000 notice inviting requests for public comment on this ICR.

SUPPLEMENTARY INFORMATION: Section 3506 of the Act (44 U.S.C. Chapter 35) requires that the Director of OMB provide interested federal agencies and the public an early opportunity to comment on information collection requests. The Office of Management and Budget (OMB) may amend or waive the requirement for public consultation to the extent that public participation in the approval process would defeat the purpose of the information collection, violate State or federal law, or substantially interfere with any agency's ability to perform its statutory obligations. In compliance with the Paperwork Reduction Act (44 U.S.C. 3501 *et seq.*), this notice amends a proposed information collection request (ICR) of the National Assessment Governing Board (the Governing Board, or NAGB) published on January 18, 2000 and revised on February 18, 2000. The information collection is to conduct a research and validation support study related to test development for the proposed Voluntary National Test (VNT) during Spring 2000.

ADDITIONAL INFORMATION: Copies of this ICR may be obtained from Ray Fields, Assistant Director, National Assessment Governing Board, Suite 825, 800 North Capitol Street, NW., Washington, DC 20002. Telephone: (202) 357-0395; e-mail: Ray_Fields@ED.Gov.

Dated: February 28, 2000.

Roy Truby,

Executive Director, National Assessment Governing Board.

[FR Doc. 00-5072 Filed 3-1-00; 8:45 am]

BILLING CODE 4000-01-M

DEPARTMENT OF EDUCATION

National Educational Research Policy and Priorities Board; Quarterly Meeting

AGENCY: National Educational Research Policy and Priorities Board; Education.

ACTION: Notice of Meeting.

SUMMARY: This notice sets forth the schedule and proposed agenda of a forthcoming quarterly meeting of the National Educational Research Policy and Priorities Board. Notice of this meeting is required under Section 10(a)(2) of the Federal Advisory Committee Act. This document is intended to notify the general public of their opportunity to attend the meeting.

DATES: March 16, 2000.

TIME: 9 a.m. to 5 p.m.

LOCATION: Room 100, 80 F St., NW., Washington, DC 20208-7564.

FOR FURTHER INFORMATION CONTACT: Thelma Leenhouts, Designated Federal Official, National Educational Research Policy and Priorities Board, Washington, DC 20208-7564. Tel.: (202) 219-2065; fax (202) 219-1528; e-mail: Thelma_Leenhouts@ed.gov, or nerpph@ed.gov. The main telephone number for the Board is (202) 208-0692.

SUPPLEMENTARY INFORMATION: The National Educational Research Policy and Priorities Board is authorized by Section 921 of the Educational Research, Development, Dissemination, and Improvement Act of 1994. The Board works collaboratively with the Assistant Secretary for the Office of Educational Research and Improvement (OERI) to forge a national consensus with respect to a long-term agenda for educational research, development, and dissemination, and to provide advice and assistance to the Assistant Secretary in administering the duties of the Office. The meeting is open to the public. Individuals who will need accommodations for a disability in order to attend the meeting (i.e., interpreting services, assistive listening devices, materials in alternative format) should notify Thelma Leenhouts at (202) 219-2065 by no later than March 9. We will attempt to meet requests after this date, but cannot guarantee availability of the requested accommodation. The meeting site is accessible to individuals with disabilities.

PARRIS N. GLENDENING, *Governor*
HENRY A. VIRTS, D.V.M., *Secretary*



The Wayne A. Cawley, Jr. Building
50 HARRY S. TRUMAN PARKWAY
ANNAPOLIS, MARYLAND 21401
Baltimore/Annapolis (410) 841-5700
Washington (301) 261-8106
Facsimile (410) 841-5914
MD Relay 1-800-735-2258
e-mail address <http://www.mda.state.md.us>

STATE OF MARYLAND
DEPARTMENT OF AGRICULTURE

July 27, 1998

Ms. Emily C. Rzemien
Versar Task Manager
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

RE: *Fort George G. Meade - Environmental Assessment*

Dear Ms. Rzemien:

Thank you for the opportunity to review and comment on the above-referenced project. The Maryland Department of Agriculture has no comments regarding the proposed action.

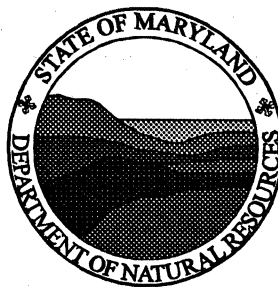
Should you have any questions, do not hesitate to call me at 410/841-5880.

Sincerely,

A handwritten signature in black ink, appearing to read "Henry A. Virts".

Henry A. Virts, D.V.M.
Secretary

HAV:mej



Parris N. Glendening
Governor

Maryland Department of Natural Resources
Forest, Wildlife and Heritage Service
Tawes State Office Building
Annapolis, Maryland 21401

John R. Griffin
Secretary

Carolyn D. Davis
Deputy Secretary

August 3, 1998

Ms. Emily C. Rzemien
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

RE: Future Activities Proposed for Fort George G. Meade as Described Within Current Master Plan, Anne Arundel County

Dear Ms. Rzemien:

The Wildlife and Heritage Division has no records for Federal or State rare, threatened or endangered plants or animals within any of the specified project sites. This statement should not be interpreted as meaning that no rare, threatened or endangered species are present. Such species could be present but have not been documented because an adequate survey has not been conducted or because survey results have not been reported to us.

Sincerely,

Michael E. Slattery
MSB for

Michael E. Slattery,
Director,
Wildlife & Heritage Division

cc: R. Dintaman, DNR
ER# 98.1091.aa

A-6

Telephone: (410) 260-8540
DNR TTY for the Deaf: 410-974-3683



Parris N. Glendening
Governor

Maryland Department of Natural Resources

ENVIRONMENTAL REVIEW

Tawes State Office Building
Annapolis, Maryland 21401

August 5, 1998

John R. Griffin
Secretary

Carolyn D. Davis
Deputy Secretary

Emily C. Rzemien
Versar Task Manager
Versar, Inc.
9200 Rumsey Road
Columbia, MD 21045-1934

Dear Ms. Rzemien:

Thanks you for the opportunity to review and comment on the proposed action at Fort George G. Meade in preparation for development of an Environmental Assessment (EA) by the installation and the U.S. Army Corps of Engineers, Baltimore District. The proposed action has been reviewed by the various units of the Department. The following information is provided for your use in preparing the subject EA:

Little Patuxent River

A portion of the main stem of the Little Patuxent River, could be impacted by activities that occur at Fort Meade. Little Patuxent River and its tributaries are classified as Use I waters. Use I waters are protected for water contact recreation and aquatic life.

Anadromous fish

Anadromous fish species, including white perch (Morone americana), yellow perch (Perca flavescens), and herring (Alosa sp.) have been documented spawning in the Little Patuxent River. These anadromous fish may also reach the lower portions of tributaries in the study area. All of these waters are considered to be sensitive habitats because of potential anadromous fish spawning in this area.

Resident fish populations

A list of resident fish species (Table B1-4), which have been documented in the Little Patuxent River by our Maryland Biological Stream Survey project, is attached for your information. Tributaries in your study area, that have perennial flow, may support populations of many of these