# FINAL 

## ENVIRONMENTAL

 IMPACT STATEMENT
## For

CONTRACT NO. M 425-101-370
U.S. ROUTE 29

SLIGO CREEK TO THE HOWARD COUNTY LINE MONTGOMERY COUNTY, MARYLAND

prepared by
U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION
and
MARYLAND DEPARTMENT OF TRȦNSPORTATION STATE HIGHWAY ADMINISTRATION

## REPORT NUMBER: FHWA-MD-EIS-88-04-F

USS. ROUTE 29<br>from Sligo Creek to Howard County Line<br>Montgomery County, Maryland

FINAL ENVIRONMENTAL IMPACT STATEMENT

## USS. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

Submitted Pursuant to 42 U.S.C. 4332 (2)(C)
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The proposed action involves intersection and lane improvements and new alignments for the Montgomery County portion of U.S. Route 29 from Sligo Creek Parkway, south of I-495, to the Patuxent River Bridge at the Howard County line. The purpose of these proposed highway improvements is to provide additional safe and efficient capacity for this 11.35 mile segment of the U.S. Route 29 corridor, which contains numerous major residential, commercial, and industrial developments along the north-south roadway.

The Selected Alternate C includes: (1) grade-separated interchanges north of MD 650 and (2) intersection improvements south of MD 650. Environmental impacts in the areas of land use, neighborhoods, businesses, community services, natural resources, air quality, and noise are presented.

## SUMMARY

## A. ADMINISTRATIVE ACTION

Federal Highway Administration
Administration Action Environmental Statement
() Draft
(X) Final
() Section 4(f) Evaluation
() Supplemental

## B. INFORMATIONAL CONTACTS

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## C. DESCRIPTION OF PROPOSED ACTION

The proposed action involves intersection, lane and interchange improvements and new alignments for the Montgomery County portion of U.S. Route 29 from Sligo Creek Parkway, south of I-495, to the Patuxent River Bridge at the Howard County line (Figure S-1). The purpose of proposed highway improvements is to provide additional, safe, and efficient capacity for this 11.35 -mile segment of the U.S. Route 29 corridor, which contains numerous major residential, commercial, and industrial developments along the north-south roadway (Figure S-2).

## D. ALTERNATIVES CONSIDERED

Four alternatives were developed for this portion of the U.S. Route 29 project and presented at the Combined Location/Design Public Hearing held on January 25, 1989 and a Supplemental Public Meeting held on March 20, 1990. Alternative A, the No-Build Alternative, consisted of the maintenance of the existing highway design. Intersection improvements, with no control of access, were proposed in Alternative B. Alternative C included control of access, with grade-separated interchanges (bridges) and/or service roads. All median crossovers and traffic signals north of MD 650 would be removed. Several intersection/interchange designs concepts have been developed for Alternatives B and C. Alternative D provided separated


Source: MDSHA Official Trensportation Map


## FIGURE S - 2

Study Area
U.S. Route 29 FEIS

1 d 2
SCALE: $1 ;=2000^{\circ}$


HOV lanes within the existing median from Sligo Creek to Maryland Route 198. Three design concepts were considered within Alternative D and several options within each concept were proposed.

Additional alternatives were developed subsequent to the Location /Design Public Hearing that included several options at Four Corners and two-lane treatment alternatives (Alternatives C-4, C-4 At Grade, C-5, and C-6 Modified).

For this FEIS, two alternatives are described including the No-Build Alternative and Selected Alternative (Alternative C) which includes modifications that were made since the Draft Environmental Impact Statement (DEIS). The Selected Alternative includes control of access, with grade-separated interchanges (bridges) and/or service roads. Median crossovers and traffic signals would be removed. Design concepts have been developed for the Selected Alternative.

## E. AREAS OF CONTROVERSY

Residents and businesses along the U.S. Route 29 corridor have expressed a variety of concerns regarding the proposed improvements. These concerns involve a number of issues including noise, pedestrian access, bicycle and equestrian paths, neighborhood traffic, and general safety. In addition, area business people have expressed concern for maintenance of access to local businesses and availability of parking. Residents south of the project area are concerned about the effects of the proposed improvements to U.S. Route 29 on traffic and safety of the roadway in their area.

These concerns have been voiced through a number of public meetings and hearings. The studies and alternatives contained in this report have been refined in response to these identified concerns.

## F. RELATED PROJECTS IN THE STUDY AREA

Several projects in the vicinity of U.S. Route 29 listed in the Maryland Consolidated Transportation Program (CTP) are either under construction or about to proceed into the construction phase. All projects identified below will impact the U.S. Route 29 corridor in some way. Among the improvements are the widening and reconstruction of Maryland Route 650 from Randolph Road to MD Route 198. Construction is scheduled to begin in FY 1994. The Intercounty Connector, a new transportation facility between I-270 and I-95, is currently in the Development and Evaluation stage. Widening is currently being constructed or in the planning stages at various roads intersecting U.S. Route 29. The widening of E. Randolph Road from MD Route 650 to Old Columbia Road is currently under construction. Montgomery County is also planning to widen Briggs Chaney Road. These improvements should reduce congestion and improve traffic flow on U.S. Route 29 by providing more capacity and less congestion on roadways off of U.S. Route 29.

## G. SUMMARY OF ENVIRONMENTAL IMPACTS

Traffic - In 1985, many intersections in the project corridor operated at Level of Service (LOS) E or F during peak hours. Traffic projections for the year 2015 indicate that the Selected Alternative will provide acceptable traffic conditions.

Safety - Increasing traffic volumes, especially at high accident intersections, can be expected to increase accident rates in the corridor with the No-Build Alternative. The Selected Alternative would have the capability to substantially reduce the number of accidents in the corridor.

Land Use and Planning - Any changes to U.S. Route 29 have the potential to affect transit serviceability which may enhance or deter land use development. With the No-Build Alternative, traffic conditions will worsen due to congestion. The Selected Alternative will eliminate intersection delays while providing improved traffic flow for existing and future development.

Displacements - The No-Build Alternative would not require any displacements. Twentythree (23) structures could be impacted by the Selected Alternative. All Maryland State Highway Administration projects requiring displacements must comply with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (as amended). See Appendix D.

Neighborhoods and Social Groups - Overall project effects on area neighborhoods would be minimal. The Selected Alternative would provide safer access to and from U.S. Route 29, although in some cases this access would be more circuitous. The Four Corners community is somewhat more sensitive to changes in their areas as they are concerned that future transportation improvements might worsen an already deteriorating commercial district.

Community Facilities - Emergency vehicle response time may increase over a period of time with the No-Build Alternative. Although access to U.S. Route 29 would be changed by the Selected Alternative, response time should improve for the most part due to less traffic congestion.

Surface Water - None of the major streams in the corridor would be affected by the project. The Selected Alternative would impact several small intermittent tributaries through culvert extensions, new culverts and relocations. Potential mitigation of aquatic resources may be accomplished using depressed, natural-bottom culverts or enhancement of existing aquatic resources.

Groundwater - The project should produce no impacts on groundwater resources.
Wetlands - The Selected Alternative would permanently impact approximately 0.55 acres of wetlands. Mitigation will be accomplished by creation, enhancement, or restoration of wetlands at ratios determined by the Maryland Department of Natural Resources and the U.S. Department of the Army, Corps of Engineers (U.S. COE).

Vegetation - The Selected Alternative would require removal of approximately 10 acres of early-succession shrubland, 56 acres of hardwood forest, and 27 acres of agriculture. Mitigation for the hardwood forest will be accomplished by Maryland State Highway Administration (MD SHA) at a 1:1 ratio.

Threatened and Endangered Species - The project would have no impact on federal or state threatened, endangered or rare species.

Farmlands - The proposed alternatives would not have an adverse effect on farmland, as per evaluation criteria of the Farmland Protection Policy Act.

Noise - The Selected Alternative would impact front row receptors within each noise sensitive area studied. Mitigation measures such as noise barriers and site specific noise insulation of public buildings which are reasonable and feasible would be developed during final design of the U.S. Route 29 project.

Air Quality - The air quality analysis indicates that carbon monoxide (CO) impacts resulting from the implementation of the No-Build or Selected Alternative at the Four Corners intersection and the Sligo Creek Parkway intersection would not result in a violation of the 1hour or 8 -hour S/NAAQS of 35 ppm and 9 ppm , respectively. No intersections north of MD 650 violate the S/NAAQS.

The construction phase of the proposed project has the potential to impact the local ambient air quality by generating fugitive dust through activities such as demolition and materials handling. MD SHA has addressed this possibility by establishing "Specifics for Construction and Materials" which specifies procedures to be followed by contractors involved in site work.

Historic and Archaeological Resources - There are five historic sites in the study area considered eligible for the National Register of Historic Places. Two of these historic sites would have been effected by the Selected Alternates. Due to design refinements, these impacts were avoided. The State Historic Preservation Officer (SHPO) issued a determination that the Selected Alternative will not adversely affect the Marlow/Bushnell House (M 34/8) and St. Marks Chapel (M 34/9), the latter determination conditioned on a landscaping plan. The Advisory Council on Historic Preservation (ACHP) concurred with the SHPO's no adverse effect determinations. There are no archeological sites in the area of potential effect which meet the criteria for listing on the National Register.

Hazardous Materials - There is a strong likelihood that petroleum contaminated soils will be encountered on several of the properties or section of properties anticipated to be acquired for this project. Impact of these petroleum contaminated soils on the project will be associated with characterization, excavation, testing and disposal of encountered contamination. To minimize the impact of contaminated sites on the construction of the roadway improvements, it is recommended that characterization of the potentially acquired property be conducted prior to the purchase of the properties as delays and expenses associated with construction related discovery of contamination can be substantial.

Table S-1 contains a summary of impacts that may result from the proposed improvements to U.S. Route 29.

Table S-1

## Summary of Impacts

U.S. Route 29

| Impact Category | No-Build Alternative | Selected Alternative (Alternative C) |
| :---: | :---: | :---: |
| Traffic | Does not meet future transportation needs | Provides acceptable future traffic flow |
| Safety | Potential for accidents increases | Substantial reduction in the number of accidents |
| Land Use and Planning | Incompatible with land use plans | Compatible with land use plans |
| Displacements | No Displacements | Total - 23 <br> 16-Single-Family <br> 5 - Commercial (on 4 properties) <br> 3-Auxiliary |
| Neighborhood and Social Groups | Maintains access to all neighborhoods, but may add cutthrough traffic on neighborhood streets. Unsafe conditions accessing U.S. Route 29 | Changes the access to neighborhoods, but enhances safety |
| Community Facilities | Hampers emergency vehicle travel due to congestion | Changes access for emergency services while improving response time on U.S. Route 29 |
| Surface Water | No Impact | Minor Impact - Erosion and Sediment Control Plan will be developed and implemented |
| Groundwater | No Impact | No Impact |
| Wetlands | No Impact | Maximum 0.55 acres - Mitigation as required by MD DNR and U.S. COE |
| Floodplains | No Impact | No impact |
| Vegetation | No Impact | Maximum 142.7 acres includes 56.3 acres hardwood forest - Mitigation as required by MD DNR |
| Threatened and Endangered Species | No Impact | No Impact |
| Prime and Statewide Farmland | No Impact | No Impact |
| Noise | 192 receptors exceed the NAC, 100 would benefit from mitigation | 246 of 381 receptors would benefit from mitigation |
| Air | No sensitive areas exceeding the one-hour or eight-hour NAAQS | No sensitive areas exceeding the one-hour or eight-hour NAAQS |
| Historic and Archeological | No Impact | No adverse impact - Landscaping Plan required for one historic site (St. Marks Chapel) |
| Total Project Cost | Normal Maintenance Cost | Approximately \$200 million |

## H. FEDERAL AND STATE APPROVALS REQUIRED

The following is a list of permits and approvals that may be required for the proposed project construction:

- Waterway Construction Permit - Maryland Department of Natural Resources (MD DR)
- Sediment and Stormwater Management Approval - MD DNR - Water Resources Administration (WRA), and Department of Health and Mental Hygiene - Office of Environmental Programs (OEP)
- Joint Permit for Construction on Nontidal Waters and Floodplains (Wetlands) MD DNR Wetlands and Waterways Program, WRA. Department of the Army, U.S Corps of Engineers


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## I. PROJECT PURPOSE AND NEED

## A. HISTORICAL BACKGROUND

Portions of Old Columbia Pike were originally constructed around 1945. The old twolane highway proceeded north from White Oak on New Hampshire Avenue to Olney, then toward Ellicott City along Clarksville Pike. Old Columbia Pike, then designated MD Route 196, was unable to accommodate the growth of the region. In the early 1950s, the State Roads Commission began construction for a new parallel dual highway facility. The dual section for U.S. Route 29 between Paint Branch and Burtonsville was completed in 1956. The dual section between Northwest Branch and Sligo Creek followed in the late 1950s. The connection of these two sections, between Paint Branch and Northwest Branch, opened in 1960. It was not until 1967 that the two-lane section north of Burtonsville, originally constructed in 1954, was widened to four lanes.

The project to improve traffic flow conditions and to gain access control on U.S. Route 29 from U.S. Route 40 in Howard County to I-495 in Montgomery County was added to the Development and Evaluation Program in the 1984-1989 Consolidated Transportation Program (CTP). It has remained in the Development and Evaluation Program through the current CTP (1994-1999). In the 1987-1992 CTP, the study limit was extended south to Sligo Creek Parkway and the study was split into two; one in Montgomery County and the other in Howard County. Two portions of the project, the proposed improvements on U.S. Route 29 at MD Route 193 (Four Corners) and the bridge widening over New Hampshire Avenue have been advanced to the Construction Program in the 1994-1999 CTP. The anticipated construction date for these projects are FY 96 and FY 94, respectively. This project is also included in the Transportation Improvement Program, a document created jointly with Metropolitan Washington Council of Governments (MWCOG).

When the study was split into two, no improvements were proposed at the Patuxent River bridge. As noted in Section II.B, the projected level-of-service at the bridge is LOS D, therefore no major capacity improvement was deemed necessary. Intense development and traffic generation occurs south of MD 198 (in Montgomery County) and north of MD 216 (in Howard County). Between these two routes, little development exists or is planned because the area lies within a section of the Patuxent River watershed which both counties are trying to protect from development. Traffic volumes decrease in both counties as U.S. Route 29 approaches the Patuxent River. Given the low density of development projected in this section and the minimal need for local access improvements, the existing roadway will be adequate in the immediate vicinity of the Patuxent River bridge. The environmental documents evaluating improvements in each county have the Patuxent River bridge as their termini, but roadway improvements leasing up to the bridge (between MD 198 and MD 216) are transitional purposes only (e.g., acceleration lanes and truck climbing lanes.) major roadway capacity improvement terminate at MD 198 in Montgomery County and Md 216 in Howard County.

The U.S. Route 29 project corridor consists of 11.35 miles of roadway containing 38 atgrade intersections. Nineteen intersections have traffic signals. From Sligo Creek to MD Route 650 ( 3.79 miles), U.S. Route 29 is a 6 -lane divided highway. North of MD Route 650 to the

- University Boulevard EB
- University Boulevard WB
- Timberwood Avenue
- Circle Drive (east side only)
- Lorain Avenue
- Southwood Avenue/Eastwood Avenue (west side only)
- Crestmoor Drive (east side only)
- Washington Suburban Sanitary Commission entrances
- Manor Care/Exxon
- Hillwood Drive (east side only)
- Lockwood Drive (MD Route 895) (east side only)
- Lockwood Drive Spur/Quality Inn connector
- Burnt Mills Avenue
- Southwest Drive (no median opening)
- Northwest Drive
- Prelude Drive (west side only)
- Oak Leaf Drive

North of MD Route 650, to the Howard County line ( 7.56 miles), the right-of-way width is typically 200-feet south of MD Route 198 and 150 feet north of MD Route 198. Numerous private driveways connect to U.S. Route 29 north of MD Route 198 (9 onto northbound U.S. Route 29, 18 onto southbound U.S. Route 29).

At-grade intersections north of MD 650 are listed below. All locations include median crossovers and left turn bays. Traffic signals are provided at New Hampshire Avenue, Stewart Lane and Stewart Lane offset intersections, Industrial Parkway, Tech Road, Randolph Road, Musgrove Road, Fairland Road, Briggs Chaney Road, Greencastle Road, and at MD Route 198 and Burtonsville Crossing Shopping Center.

- Stewart Lane
- Stewart Lane offset
- Old Columbia Road/Industrial Parkway
- Tech Road (east side only)
- East Randolph Road
- Musgrove Road
- Fairland Road
- Briggs Chaney Road
- Greencastle Road
- Blackburn Road
- MD Route 198 (Spencerville Road)
- Burtonsville Shopping Center/Office Park (National Drive)
- Burtonsville Crossing Shopping Center
- Bell Road (west side only)
- Dustin Road


## B. EXISTING HIGHWAY SYSTEM AND DEFICIENCIES

## 1. Existing Highway

Beginning at Silver Spring, U.S. Route 29 extends north through extensively developed areas of Montgomery County, across the Patuxent River and into Howard County before terminating at I-70/MD Route 99. Numerous major residential, commercial, and industrial developments are located along the 4-lane and 6-lane divided highway. As a major state highway facility in the Baltimore-Washington Parkway/U.S. Route 1/I-95/U.S. Route 29 band, U.S. Route 29 serves as a "main street" for nearly every major development in the eastern half of Montgomery County.

The entire project corridor (from Sligo Creek to the Patuxent River) consists of six lanes except for the areas north of MD Route 198 to the Patuxent River where two lanes are northbound and two are southbound, and at the U.S. Route 29 bridge over MD Route 650 which consists of four lanes.

From Sligo Creek to MD Route 650 ( 3.79 miles), existing U.S. Route 29 typically consists of a divided 6-lane arterial highway; the existing 16-foot raised median includes left turn bays at the intersections. Sidewalks are provided in the vicinity of Four Corners and in some locations south of I-495. The existing right-of-way width is 100 -feet. Four lanes with a 16 -foot median are carried through the MD Route 650 interchange; an auxiliary third lane per direction is provided between the loop ramps.

To provide consistent roadway capacity, improvements at the U.S. Route 29/MD 650 interchange have been separated from this project to correct the bottleneck effect of narrowing 6 lanes to 4 at the interchange. The improvements consist of adding a lane in both the north and southbound lanes on the U.S. Route 29 bridge over MD 650 through the interchange to accommodate merging traffic. The additional lanes would be added within the existing median rather than on the outside as presented in the Draft Environmental Impact Statement (DEIS). The acceleration and deceleration lanes for the U.S. Route 29/MD 650 ramps will also be shifted to accommodate the lane additions which may require some additional right-of-way. No improvements to the U.S. Route 29 bridge substructure over MD 650 are required. The Federal Highway Administration (FHWA) approved this project as a Categorical Exclusion on September 10, 1992.

In addition to the full cloverleaf interchange at MD Route 650, at-grade intersections are provided as listed below, with median crossovers and left turn bays provided at most locations. Traffic signals are provided at Sligo Creek Parkway/St. Andrews Way, Franklin Avenue (MD Route 516), MD Route 193 (University Boulevard)(2 lights), Southwood Avenue, Lockwood Spur, Bumt Mills Avenue, and Prelude Drive.

- Franklin Street
- Leighton Avenue
- Brewster Avenue
- Indian Spring Road
- Granville Drive
- Lanark Way (west side only)
- University Boulevard EB
- University Boulevard WB
- Timberwood Avenue
- Circle Drive (east side only)
- Lorain Avenue
- Southwood Avenue/Eastwood Avenue (west side only)
- Crestmoor Drive (east side only)
- Washington Suburban Sanitary Commission entrances
- Manor Care/Exxon
- Hillwood Drive (east side only)
- Lockwood Drive (MD Route 895) (east side only)
- Lockwood Drive Spur/Quality Inn connector
- Burnt Mills Avenue
- Southwest Drive (no median opening)
- Northwest Drive
- Prelude Drive (west side only)
- Oak Leaf Drive

North of MD Route 650, to the Howard County line ( 7.56 miles), the right-of-way width is typically 200 -feet south of MD Route 198 and 150 feet north of MD Route 198. Numerous private driveways connect to U.S. Route 29 north of MD Route 198 ( 9 onto northbound U.S. Route 29, 18 onto southbound U.S. Route 29).

At-grade intersections north of MD 650 are listed below. All locations include median crossovers and left turn bays. Traffic signals are provided at New Hampshire Avenue, Stewart Lane and Stewart Lane offset intersections, Industrial Parkway, Tech Road, Randolph Road, Musgrove Road, Fairland Road, Briggs Chaney Road, Greencastle Road, and at MD Route 198 and Burtonsville Crossing Shopping Center.

- Stewart Lane
- Stewart Lane offset
- Old Columbia Road/Industrial Parkway
- Tech Road (east side only)
- East Randolph Road
- Musgrove Road
- Fairland Road
- Briggs Chaney Road
- Greencastle Road
- Blackburn Road
- MD Route 198 (Spencerville Road)
- Burtonsville Shopping Center/Office Park (National Drive)
- Burtonsville Crossing Shopping Center
- Bell Road (west side only)
- Dustin Road


## 2. Traffic

The DEIS included a detailed traffic analyses which is also described in this FEIS. Traffic issues are discussed in depth in the Traffic Analysis Report. The Traffic Analysis Report can be reviewed at the Maryland State Highway Administration offices. The five volumes of the Preliminary Traffic Analysis supplement the information presented in the Traffic Analysis Report. The traffic analysis was performed based on travel demand forecasts developed in cooperation with the MWCOG. This section summarizes the key points discussed in the Traffic Analysis Report.

## a. Traffic Data

The U.S. Route 29 corridor is one of the most important commuter-oriented arterial radiating from the Capital Beltway. The growth in traffic volumes over the past 35 years along U.S. Route 29 has generally paralleled the growth in households and employment. Past average traffic volumes (vehicles per day) are tabulated in Table I-1.

Table I-1
Past Average Daily Traffic Volumes


Daily traffic volumes (vehicles per day) and hourly traffic volumes (vehicles per hour) are tabulated in Table I-2. The peak-hour directional distribution immediately south of Randolph Road is 70 percent AM southbound and 62 percent PM northbound. The AM and PM peak hours are 8.88 percent and 9.34 percent, respectively, of the total daily traffic at this location.

Table I-2
Year 1985 Traffic Data

The directional distribution north of Dustin Road approaching the northern termini is 58 percent AM southbound/42 percent AM northbound, and 59 percent PM northbound/41 percent PM southbound.


In accordance with the projected increases in land use and with increased transit usage, year 2015 traffic volumes are anticipated to increase in comparison to year 1985 volumes. Tabulated in Table I-3 are projected year 2015 daily and peak-hour traffic volumes.

Table I-3
Year 2015 Traffic Data


Trucks comprise approximately 5 percent of the average daily traffic (ADT) and peakhour traffic and will remain the same percentage for the design year 2015.

The methodology used to develop the 2015 AM and PM peak hour traffic forecasts involved the use of existing traffic volumes at the selected intersections and the traffic models developed by the MWCOG for the base year 1985 and the forecast year 2015. Some results of these models indicate the following:
i) Howard County portion of traffic (daily trips in 2015) on various sections of U.S. Route 29 is as follows:

```
- south of I-495-6 percent
- north of I-495-13 percent
- north of University Boulevard - }14\mathrm{ percent
- south of Inter County Connector (ICC) - 21 percent
- north of ICC - 55 percent
```

ii) The largest portion of traffic on U.S. Route 29:

- south of I-495 is from outside the Washington area from the NE and White Oak - Fairland/Four Corners - 24 percent
- north of I-495 is from White Oak-Fairland/Four Corners - 52 percent
- north of University Boulevard is from White Oak-Fairland/Four Corners - 44 percent
- $\quad$ south of ICC is from Prince Georges County outside I-495-26 percent
- north of ICC is from Howard County - 55 percent
iii) ADT at the Montgomery/Howard County line:

|  | $\underline{1985}$ | $\underline{2015}$ |
| :--- | ---: | ---: |
|  |  |  |
| U.S. Route 29 | 27,000 | 49,000 |
| I-95 | 75,000 | 170,000 |

Total increase in daily trips on the two highways is 117,000 vehicles per day. An 80 percent increase in traffic on U.S. Route 29 is projected by 2015.

## b. Level of Service

Quality of traffic flow along a highway is measured in terms of level of service (LOS). This measure is dependent upon highway geometry and traffic characteristics and ranges from LOS "A" (Best), to LOS "C" (minimum desirable in rural areas), to " $E^{\prime \prime}$ (capacity and acceptable in urban and suburban areas), to LOS "F" (worst or forced flow). The LOS categories and general descriptions are:

LOS A is free flow, with low volumes and high speeds.
LOS B is the zone of stable flow, with operating speeds beginning to be restricted somewhat by traffic conditions. Drivers still have reasonable freedom to select their speed and lane of operation.

LOS C is still in the zone of stable flow, but speeds and maneuverability are more clearly controlled by the higher volumes.

LOS D approaches unstable flow, with tolerable operating speeds being maintained though considerably affected by changes in operating conditions.

LOS E cannot be described by speed alone, but represents operations at even lower operating speeds than in level D , with volumes at or near capacity of the highway.

LOS F describes forced flow operation at low speeds, where volumes are above capacity.
The previously mentioned traffic volumes were distributed to reflect the particular travel paths available for each alternative and concept. Each alternative and concept was then thoroughly analyzed to develop levels-of-service for the following areas of analysis: freeways, multilane highways, two-lane highways, ramp junctions, ramp roadways, weaving areas and intersections. The results of these analyses were presented and thoroughly discussed in the Traffic Analysis Report and are summarized below:
i) South of MD Route 650

## a) 1985 Conditions

Table I-4 lists the level-of-service obtained for the 1985 morning and afternoon peak hours at the key intersections on U.S. Route 29 between Sligo Creek Parkway and MD Route 650. The following is a list of the intersections south of MD Route 650 that are operating beyond capacity:

- U.S. Route 29 at Sligo Creek Parkway
- U.S. Route 29 at Lanark Way
- U.S. Route 29 at MD Route 193 EB
- U.S. Route 29 at MD Route 193 WB
- U.S. Route 29 at Southwood Drive
- U.S. Route 29 at Hillwood Drive
- U.S. Route 29 at Lockwood Drive
- U.S. Route 29 at Bumt Mills Avenue
- U.S. Route 29 at Franklin Avenue

Table I-4
1985 and Projected 2015 Levels of Service South of MD Route 650


These results are confirmed by actual observations of the congestion that exists on U.S. Route 29 during the morning and afternoon peak periods. The long queues at the intersections listed above extend to, and adversely affect, adjacent intersections.
b) No-Build Alternative

Table I-4 also lists the levels of service obtained for the 2015 morning and afternoon peak hours at the key intersections on U.S. Route 29 between Sligo Creek Parkway and MD Route 650 for the No-Build Alternative. As may be expected, most intersections will operate at LOS F. The following is a list of the intersections south of MD Route 650 that would operate beyond capacity for this alternative:

- U.S. Route 29 at Sligo Creek Parkway
- U.S. Route 29 at Franklin Avenue
- U.S. Route 29 at Lanark Way
- U.S. Route 29 at MD Route 193 BB
- U.S. Route 29 at MD Route 193 WB
- U.S. Route 29 at Timberwood Avenue
- U.S. Route 29 at Lorain Avenue
- U.S. Route 29 at Crestmoor Avenue
- U.S. Route 29 at Southwood Drive
- U.S. Route 29 at Hillwood Drive
- U.S. Route 29 at Lockwood Drive
- U.S. Route 29 at Burnt Mills Drive
- U.S. Route 29 at Southwest Drive
- U.S. Route 29 at Northwest Drive
- U.S. Route 29 at Prelude Drive
- U.S. Route 29 at Oak Leaf Drive

Clearly, the No-Build Alternative would not meet future traffic demands.
ii) North of MD Route 650

## a) 1985 Conditions

Table I-5 lists the level of service obtained for the 1985 morning and afternoon peak hours at the key intersections on U.S. Route 29 between MD Route 650 and the Howard County line. The following is a list of the intersections in this area that are operating beyond capacity.

- U.S. Route 29 at Stewart Lane
- U.S. Route 29 at Industrial Parkway
- U.S. Route 29 at Randolph Road
- U.S. Route 29 at Briggs Chaney Road

The northern termini at the bridge over the Patuxent River, U.S. Route 29 operates at a LOS B.

These results are confirmed by actual observations of the congestion that exists on U.S. Route 29 during the morning and afternoon peak periods. The long queues at the intersections listed above extend to, and adversely affect, adjacent intersections.

Table I-5
1985 and Projected 2015 Levels of Service

b) No-Build Alternative

Table I-5 also lists the projected levels of service obtained for the 2015 morning and afternoon peak hours at the key intersections on U.S. Route 29 between MD Route 650 and the Howard County line. The following are the intersections that will operate at LOS F:

- U.S. Route 29 at Stewart Lane
- U.S. Route 29 at Industrial Parkway
- U.S. Route 29 at Tech Road
- U.S. Route 29 at Randolph Road
- U.S. Route 29 at Musgrove Road
- U.S. Route 29 at Fairland Road
- U.S. Route 29 at Briggs Chaney Road
- U.S. Route 29 at Greencastle Road
- U.S. Route 29 at Blackburn Road
- U.S. Route 29 at MD Route 198
- U.S. Route 29 at Bell Road
- U.S. Route 29 at Dustin Road

At the northern termini, the U.S. Route 29 bridge over the Patuxent River, the 2015 LOS would be LOS D.

Clearly, the No-Build Alternative would not meet future traffic demands.
c. Safety
U.S. Route 29, from Sligo Creek to the Patuxent River experienced an average accident rate of 203 accidents for every one-hundred million vehicle miles of travel ( 100 mvm ) during the three year DEIS study period (1984-1986). This rate is below the statewide average rate of 218 accidents/ 100 mum for similar highways now under state maintenance.

A total of 863 accidents was reported within the study limits (from 1984 through 1986). The accident cost to the motoring and general public resulting from these accidents is estimated at approximately $\$ 1.6$ million $/ 100 \mathrm{mvm}$. These accidents are listed below in Table I-6 by severity, indicating number of fatalities, injuries and property damage accidents.

There were six fatal accidents within the study limits (from 1984 through 1986). Of the six fatal accidents, three were fixed object collisions, one was a rear end collision, one was an angle collision and one was a left turn collision.

The collision types experienced on U.S. Route 29 within the study limits, in comparison to the statewide average rates for this type of highway area, is shown in Table I-7.

Table I-6
Study Area Accidents Listed by Severity


Table I-7
Study Area Accidents Listed by Collision Type


* Significantly higher than Statewide Average Rate

The accident rates for the angle and fixed object collisions were significantly higher than the statewide average rates. The high rate of angle accidents may be attributed to the numerous intersections throughout the study limits. Of the 863 total accidents, 518 (or $60 \%$ ) were intersection related accidents. As traffic volumes increase, at-grade intersections will experience increased congestion, accidents and delays. Of the total 113 fixed object collisions, 62 (or $55 \%$ ) occurred during the hours of darkness and 63 (or 56\%) involved vehicles striking the curb.

There are ten (10) High Accident intersections within the study limits. These are listed below:

1. U.S. Route 29 at Sligo Creek Parkway (St. Andrews Way) (1984-14 accidents, 1986-14 accidents)
2. U.S. Route 29 MD Route 193 Eastbound (1984-15 accidents, 1986-23 accidents)
3. U.S. Route 29 at MD Route 193 Westbound (1984-13 accidents, 1985-12 accidents)
4. U.S. Route 29 at Stewart Lane (1984-15 accidents, 1986-21 accidents)
5. U.S. Route 29 at East Randolph Road (1984-27 accidents, 1985-16 accidents, 1986-25 accidents)
6. U.S. Route 29 at Fairland Road
(1984-25 accidents, 1985-24 accidents)
7. U.S. Route 29 at Briggs Chaney Road (1986-12 accidents)
8. U.S. Route 29 at MD Route 198 (1985-23 accidents, 1986-12 accidents)
9. U.S. Route 29 at (1.50-2.00) . 01 mile south of MD Route 391 to .15 mile north of MD Route 516 (1985-59 accidents)
10. U.S. Route 29 at ( $10.50-11.00$ ) . 18 mile south of MD Route 198 to .32 mile north of MD Route 198 (1985-21 accidents)

## C. OTHER PROPOSED ACTIONS IN THE PROJECT AREA

Tables I-8 and I-9 summarize ongoing or proposed actions on other roadways in the area. These improvements are to roadways intersecting U.S. Route 29 in the project area or feeding into these intersecting roadways. All will have an impact on traffic conditions on U.S. Route 29.

As described in Part A, the study of U.S. Route 29 was split into two sections at the Montgomery/Howard County line at the Patuxent River. The studies in each county continued, but on different paces, with a Finding of No Significant Impact (FONSI) being signed for the Howard County portion in 1987. The FONSI documented the selection of interchanges at all major intersections along U.S. Route 29, similar to these proposed in Montgomery County.

## Table I-8 <br> Montgomery County Roadway Improvements

The Montgomery County Department of Transportation's Capital Improvement Program (1994-1999) lists the following County roadway improvement projects. These programmed improvements will help relieve traffic congestion and improve safety and accessibility along many of the roads that connect with U.S. Route 29.

| Roadway | Scope | Improvernent Status |
| :---: | :---: | :---: |
| Fairland Road | - East Randolph Road to U.S. 29 <br> - Reconstruct and Widen | Completed |
| Fairland Road | - U.S. Route 29 to Prince George's County Line <br> - Reconstruct | Dropped Due to Fiscal Constraints |
| E. Randolph Road - Phase I | - MD Route 650 to Burkhart Street <br> - Widen and Reconstruct to 6 lanes | Under Construction Complete April 1994. Site improvement and utilities, FY 1995 |
| E. Randolph Road - Phase II | - Burkhart Street to Old Columbia <br> - Widen and Reconstruct | Under Construction - <br> Funded for FY 1995-FY1997 |
| Briggs Chaney Road | - Realignment at Old Columbia Road <br> - New construction | Construction Funded FY <br> 1994-FY 1995 |
| Briggs Chaney Road | - Automobile Boulevard to Gateshead Manor Way <br> - Widen and Reconstruct | Facility Planning <br> Program - Complete <br> Funded for Construction <br> by FY 1999-2000 |
| Good Hope Road | - Cape May Drive to MD Route 198 <br> - Reconstruct | Dropped Due to Fiscal Constraints |
| Briggs Chaney Road | - Realignment to Norwood Road at MD Route 650 | Dropped |
| Bonifant Road | Realignment to Good Hope Road at MD Route 650 | Project Complete |
| Robey Road | - Greencastle Elementary School site to Greencastle Road <br> Reconstruct | Under Preliminary <br> Design - Funds for FY 1993, No Funds for Construction |
| Silver Spring CBD | Intersection Improvement | Not Funded, In Planning |
| Eastern Montgomery County Park and Ride Lots | Construct Approximately 2000 additional spaces | Completed Construction |

Source: Montgomery County Department of Transportation, 3/94.

Table I-9
State Highway Roadway Improvements

The Maryland Department of Transportation's Consolidated Transportation Program (1990-1999) lists the following State roadway improvement projects which could affect U.S. Route 29 between I-495 and the Howard County line.


Source: Maryland Department of Transportation, State Highway Administration, 1994.

The MDSHA in coordination with Howard County has begun to implement these improvements with interchange construction complete at MD 108, Broken Land Parkway/Seneca Drive and MD 103/MD 100. Interchanges at MD 216 and Hopkins/Gorman Road are expected in future programs.

## D. INTERFACE WITH MASS TRANSIT FACILITIES AND SERVICES

Mass transit service in the U.S. Route 29 corridor is provided by Washington Metropolitan Area Transportation Authority Metro Bus, Montgomery County Ride-On and Eyre Trailways. It is estimated that transit accounts for $12.2 \%$ of the person-trips in the U.S. Route 29 corridor. The corridor does not presently have features designed specifically for mass transit, such as HOV (High Occupancy Vehicle) lanes. In addition, the present designs of at-grade and signalized intersections are not conducive to mass transit efficiency.

Incorporation of certain design features within U.S. Route 29 would improve existing mass transit efficiency. Efficient mass transit would be a desirable alternative to automobile use. Extensive use of mass transit would help ease corridor congestion within and beyond the project area and would be consistent with the Eastern Montgomery County Master Plan's objective to move people, not vehicles. While total home to work trips in the study area are expected to increase by 76 percent from 1985 to 2010, transit trips are expected to increase by only 57 percent.

## Concurrent/Coordinated Studies

A study entitled "U.S. Route 29 Transit Alternatives Light Rail vs. HOV Lane(s)" was prepared by the Office of Transportation Planning of the Maryland Department of Transportation (MDOT) in coordination with the MWCOG and local governments. The purpose of the study was to make a comparative analysis of the ridership, capital and operating costs, and operational advantages and disadvantages associated with building a light rail transit line vs. building an HOV transitway along several corridors in Maryland, including U.S. Route 29. A further comparison was made of both at-grade and grade separated version of both facilities. The focus of the analysis was a 2010 intermediate time frame consistent with the current highway project planning activity. MWCOG provided travel demand forecasts for both planning studies.

The light rail option analyzed was an 18.6 mile, 2 to 3 track system connecting Columbia Town Center with the Silver Spring Metrorail station. The at-grade option would cross signalized intersections at-grade with possible signal preemption. The grade separated option would use median stations requiring pedestrian access and probable escalators/elevators. Both options would require shuttle service from the park-and-ride lots.

The transitway option analyzed for comparison was a 9 mile, 1 to 2 lane HOV restricted transitway from Burtonsville south to Silver Spring Metrorail Station. This transitway would be used by buses, vanpools, and 3+ carpools north of Stewart Lane and buses and vanpools south of Stewart Lane. Pedestrians would be taken directly from the park-and-ride lots. This option was developed consistent with Alternative D from the U.S. Route 29 study.

The study indicates that the U.S. Route 29 corridor promises to be an excellent transit corridor with almost 40 percent of all trips with an origin in the corridor and bound for the Washington region having a destination in either Silver Spring or the 10 -mile square which includes the District and northern Virginia employment sites. Either an HOV transitway or a light rail line could be expected to attract up to about 20,000 trips per day, similar to the ridership being achieved by several of the new light rail transit systems across the country; ie., about 1,000 riders per mile of guideway. About 75 percent of the patronage would come from Montgomery County, the remaining 25 percent from Howard County.

The total net annualized cost of a light rail system, including both operating and capital costs, would be about 3 to $31 / 2$ times the cost of comparable HOV transitway system providing the same level of service.

The capital cost of building an HOV transitway vs. a light rail system at-grade is $\$ 71$ million vs. $\$ 208$ million. The capital cost of building these alternatives grade separated is $\$ 87$ million vs. $\$ 319$ million. The net annual cost, after fare revenue is deducted, of a light rail system would be about three times the cost of a transitway system, $\$ 6.6$ million as compared to $\$ 2.1$ million.

The study concluded that although there appears to be sufficient future patronage to support either a light rail system or an extensive transitway system, express buses operating on a transitway would appear to be a more cost effective alternative.

Subsequent to the MDOT study, options to provide a time advantage to express bus service such as a concurrent flow right lane HOV with queue-jumpers were considered. This idea uses the right-most general use lane as an HOV lane. Signal phasing would give this lane advance green for any vehicles needing out of the lane, e.g. to turn left. There are several negative aspects affecting this option. Police enforcement would be difficult. The idea is not compatible with the Montgomery County Master Plan. There would be problems with right turns from the general use lanes, and the psychological problem of people having to stay out of the "empty-looking" right lane. The latter is difficult because people naturally tend to drive in the right lane if it is open. Realizing these points, this option was dropped from further analysis.

HOV lane feasibility was studied extensively throughout the entire corridor. South of MD 650, at grade HOV lanes in the median were considered. Public concern over a decrease in safety associated with the existing median eliminated this alternative. Use of the existing right lane (northbound and southbound) as an HOV lane with signal que-jumpers was also considered. Additional capacity would still be required, and congestion would not be alleviated solely by this alternative.

Physical corridor constraints prohibited grade separated HOV lanes south of MD 650.
North of MD 650, at-grade and grade separated HOV lanes were considered. Alternative D-1 north of MD 650 included at-grade HOV lanes in the existing median area (north of MD 650). The lack of time savings associated with start/stops at traffic signals along the corridor and failing levels-of-service eliminated this alternative.

Alternative D-2, north of MD 650 included grade separating the HOV lanes only, within the existing median with U.S. Route 29 remaining at-grade. Long retaining walls and bridges, and a "roller coaster" aesthetic effect deemed this alternative too expensive and unsightly with only minimal improvement to traffic along U.S. Route 29. Projected intersection LOS remained in failure. This alternative was eliminated.

Alternative D-3, north of MD 650 provided grade separated interchanges and limited access, with at-grade HOV lanes in the existing median. The capacity improvements associated with grade separating existing intersections improved traffic sufficiently. The use of HOV lanes alone would not alleviate the congestion. The additional improvements, associated with this alternative, as well as the selected alternative, $\mathrm{C}-3$, solved the projected congestion.

Another option considered to accommodate express bus service and/or HOV travel was a Contra-Flow bus lane concept. This alternative provided for use of one lane on the "opposite" side of the median as a bus lane travelling in the peak direction. That is, in the morning, there would be three (3) general use lanes heading southbound, one bus lane heading southbound on the northbound side of the median, and two lanes heading northbound. This scenario would be reversed during the evening rush hour. Safety concerns attributed to unawareness of the traveling public, maintenance associated with daily installation and breakdown, and difficulty moving the buses across the median at the termini resulted in dropping this alternative from further analysis.

Other HOV/Express bus options, which required removal of the median south of MD Route 650 were considered and dropped because of public concern for driver and pedestrian safety and access.

The Montgomery County Department of Transportation (MCDOT) has recently began a study of Express Bus service south of MD 650. The 1994 study is expected to include a more detailed investigation of operations and design of a potential facility.

## E. SOCIAL AND ECONOMIC DEVELOPMENT DEMANDS

As the main connector between Washington and Baltimore, while serving Silver Spring and Columbia, the capacity of U.S. Route 29 is critical to the vitality of adjacent communities. If population growth occurs as projected (Table I-10), design year 2015 would result in traffic operating at Levels of Service E and F.

Table I-10
Growth Projections for U.S. Route 29 Corridor 1990-2005


Source: Washington COG, Round IV-1, Cooperative Forecasts, Revised 1990.

In addition to population increases, land use plans in the corridor call for additional growth in commercial and industrial uses which also would put additional strain on traffic capacities of U.S. Route 29. Additional commercial development is planned for White Oak, Fairland, Burtonsville, Colesville, and the Kay Tract. Additional industrial development is planned for Montgomery Industrial Park, West Farm Industrial Park and the Burtonsville area.

In instances where a developing transportation corridor is affected by issues such as unacceptable Levels of Service (Levels D through F), unlimited access creating hazardous conditions, and inability to meet future traffic demand, sites adjacent to the highway segment would be less attractive to developers than transportation corridors offering safe access and unhindered traffic flow. In the growing Baltimore/Washington region, competition for development is intense; corridors with transportation facilities operating at adequate capacity would have a competitive advantage in attracting this development, particularly commercial and industrial development.

Unacceptable traffic levels on U.S. Route 29 have a two-fold effect on the area's economy. Existing business is directly impacted by impeded customer access and delivery of goods and services. In addition, new commercial and industrial establishments are less likely to locate in the corridor if transportation facilities do not function efficiently.

## F. TRANSPORTATION PLANS, POLICIES AND PROGRAMS

The most recent transportation planning for the study area is included in the comprehensive plans for the Four Corners and Eastern Montgomery County planning areas. The transportation features of these plans, as applicable to U.S. Route 29, are:

- Recommends short-term and long-term operational improvements for the U.S. Route 29/University Boulevard intersection;
- Proposes improvements to facilitate safe traffic flow;
- Proposes a network of express bus routes, neighborhood bus services, and fringe parking lots to reduce dependence on the automobile; and,
- Encourages a network of bicycle and pedestrian routes to enhance safety for cyclists and walkers.

Existing transportation conditions within the U.S. Route 29 corridor do not meet the goals of these land use plans. Mass transit in the area does not function near its potential efficiency. Highway design features used to enhance mass transit efficiency could increase the appeal of mass transit services. Existing at-grade intersections on U.S. Route 29 do not promote safe use for pedestrians or bicyclists. In addition, area land use plans indicate the need for improvements to U.S. Route 29 at specific locations and for the corridor in general.

## II. ALTERNATIVES

## A. ALTERNATIVES PRESENTED AT THE COMBINED LOCATION/DESIGN PUBLIC HEARING

Four alternatives were developed for the Montgomery County portion of the U.S. Route 29 project and presented at the Combined Location/Design Public Hearing held on January 25, 1989. Alternative A, the No-Build Alternative, consisted of the maintenance of the existing highway design. Intersection improvements, with no control of access, were proposed in Alternative B. Alternative C included control of access, with grade-separated interchanges (bridges) and/or service roads. All median crossovers and traffic signals north of MD 650 would be removed. Several intersection/interchange design concepts have been developed for Alternatives B and C. Alternative D provided separated HOV lanes within the existing median from Sligo Creek to Maryland Route 198. Three design concepts were considered within Alternative D and several options within each concept were proposed. Detailed descriptions of previous Alternatives A, B, C, and D can be found in the Draft Environmental Impact Statement (DEIS) for U.S. Route 29, Sligo Creek to the Howard County Line, Montgomery County, Maryland (11/7/88). The DEIS can be reviewed at MD SHA in Baltimore, MD.

## B. ALTERNATIVES DEVELOPED SUBSEQUENT TO THE PUBLIC HEARING

In addition to the alternatives previously considered for that portion of U.S. Route 29 south of MD 650 as previously described, additional alternatives were developed subsequent to the Location/Design Public Hearing held on January 25, 1989. These include several options at Four Corners and two-lane treatment alternatives. Though these are being considered as new alternatives since they were not included in the DEIS, they are only slightly different from those previously presented. Typical section designs for these modified alternatives are contained in Appendix A.

## At Four Corners

The preparation of this FEIS has been delayed slightly to develop design modifications and to evaluate community concerns regarding the alternatives at the U.S. Route 29/MD Route 193 (Four Corners) intersection. A Supplemental Public Meeting for the section of U.S. Route 29 between Sligo Creek Parkway and MD 650 was held on March 20, 1990. A third public meeting for the Four Corners area was held on November 4, 1992. Following are the alternatives that have been developed since the Location/Design Public Hearing in this area.

## Alternative C-4

Alternative C-4 (underpass option) proposes the relocation of all MD Route 193 traffic to the location of the existing eastbound roadway. This section of MD Route 193 would be widened from the existing three-lane facility to a six-lane divided roadway. The existing westbound roadway, on either side of U.S. Route 29, would become a two-way, three-lane
facility providing local access and circulation. U.S. Route 29 would be depressed under the widened section of MD Route 193, therefore, the existing westbound lanes will be severed providing no through movements. U.S. Route 29 would narrow from a six-lane divided section to a five-lane undivided section with a center reversible lane as it approaches MD 193.

All of the turning movements between the two roadways would be handled at the signalized intersection located on the bridge. On MD Route 193, there would be six lanes (three lanes in each direction) of through traffic, with a single left turn lane for westbound and double left turn lanes for eastbound traffic, respectively.

Each of the existing jug handles would be reconstructed to two-way roadways, further enhancing community circulation. The intersections formed between MD Route 193 and the jug handles would be signalized.

Alternative C-4 will require the displacement of three businesses, namely the Roy Rogers Restaurant, the Auto-Mech Transmission Shop and the Steuart/Agip Gas Station which houses two tenant operated auto businesses. These displacements were not required prior to the completion of the DEIS. Alternative C-4 design is contained as Plate 3 in Appendix B.

## Alternative C-4 At-Grade

Alternative C-4 At-Grade is basically the same alternative as $\mathrm{C}-4$ only at-grade (see Plate 5 in Appendix B). As in the underpass alternative of C-4, MD Route 193 would be widened from the existing three-lane facility to a six-lane divided roadway. The existing westbound roadway, on either side of U.S. Route 29 , would become a two-way, three-lane facility providing local access and circulation, no through movements would be allowed. U.S. Route 29 would narrow from a six-lane divided section to a five-lane undivided section with a center reversible lane as it approaches MD 193. Left turns from both roadways would not be permitted. Instead, vehicles would have to use the widened jug handles in an at-grade loop situation.

Also, as with Alternative C-4, this at-grade option displaces the Auto-Mech Transmission Shop, the Roy Rogers Restaurant, and the two tenant operated businesses at the Steuart/Agip Gas Station.

## Alternative C-5

Alternative C-5 (underpass option) proposed to depress MD Route 193 under U.S. Route 29 at the location of the current eastbound roadway. U.S. Route 29 will remain a six-lane facility with the median being retained and existing eastbound MD Route 193 will be widened to a five-lane roadway to handle the through movements. All traffic wishing to cross U.S. Route 29 will be diverted onto this widened section. Community access and circulation will be handled via right-in, right-out movements at the existing westbound MD Route 193/U.S. Route 29 intersection and upgraded jug handle tumn lanes. MD Route 193 will be signalized and the existing westbound roadway will be narrowed to handle two-way local traffic. Alternative C-5 is illustrated as Plate 4 in Appendix B.

Alternative C-5 will require the displacement of three businesses, namely the Roy Rogers Restaurant, the Auto-Mech Transmission Shop, and the Steuart/Agip Gas Station. These displacements were not required prior the completion of the DEIS.

## Alternative C-6 Modified

Alternative C-6 Modified, the at-grade improvement, calls for the addition of a travel lane in each direction along U.S. Route 29 and the widening of MD Route 193 at the intersections to provide for exclusive turning lanes. U.S. Route 29 will become an eight-lane facility with a continuous raised median with a median width varying between 9 and 16 feet. Also, on U.S. Route 29, exclusive right turn lanes will be provided. MD Route 193 will be widened at its intersections with U.S. Route 29 to provide exclusive left and right turn lanes.

In order to provide greater intersection level-of-service, left turns from U.S. Route 29 are being denied. Jug handle lanes are being proposed to accommodate turing movements. Vehicles making a left turn movement from U.S. Route 29 onto MD Route 193 will first have to make a right turn onto MD 193 then use the jug handles to proceed in the desired direction. Alternative C-6 Modified also includes the addition of two traffic signals located at the existing intersections of the jug handles and MD Route 193. Appendix A contains mapping of Alternative C-6 Modified.

One business displacement, Steuart/Agip Gas Station, will be required by Alternative C-6 Modified.

## C. CORRIDOR ALTERNATIVES NOT SELECTED

## No Build Alternative - Alternative $A$

The No-Build Alternative would involve continued use of the existing U.S. Route 29 highway alignment. This alternative would not meet the project need because the existing facilities are functionally inadequate to support the current and projected transportation levels of service for U.S. Route 29.

## Alternative B

This alternative addressed intersection improvements, such as addition of turn lanes and improving turning radii, with no control of access. Alternative $B$ would not meet the project need because these minor improvements would not support the current and projected transportation levels of service for U.S. 29.

## Alternative $D$

This alternative was similar to the selected alternative, Alternative C. Alternative D, however, included provisions for HOV lanes throughout the length of the corridor. South of MD Route 650, this alternative became prohibitive due to the high cost of right-of-way acquisition beyond existing right-of-way widths, and strong public concern for maintaining the existing median within existing right-of-way. Though not selected north of MD Route 650
either, there is sufficient width in the existing median area to provide two HOV lanes in the future without additional right-of-way if so determined necessary. Alternative D was not selected north of MD Route 650 because addition of HOV lanes alone would not have solved the projected congestion problem. The selected alternative does resolve projected congestion without the required additional expense of HOV lane construction.

## D. ALTERNATIVE C - SELECTED ALTERNATIVE

The following is a description of the Alternative C-Selected Alternative, including modifications that were made since the DEIS, from north of MD 650 to the Howard County line. The alternative was selected using best available engineering technology, public input through meetings and hearings, economic considerations and analysis, public safety concerns, and environmental impact analysis. The Selected Alternative fulfills the projects' Purpose \& Need to providing improved roadway and intersection level-of-service, and by addressing safety and operational concerns through the development of grade separated interchanges at selected locations throughout the majority of the corridor. Section II.A described all alternatives that were considered for the U.S. Route 29. Appendices A \& B contain mapping of all proposed improvements listed in this section. Appendix C contains a photo survey of all areas proposed for improvements along the U.S. Route 29 corridor.

Alternatives South of MD 650

## At Four Corners

Alternative C-6 Modified (the at-grade improvement) was selected. This Alternate was developed subsequent to the Public Hearing (see Appendix A - Map 1). It calls for the addition of a travel lane in each direction along U.S. Route 29 and the widening of MD 193 at the intersections to provide for exclusive turning lanes. U.S. Route 29 will become an eight-lane facility with a continuous raised median with a median width varying between 9 and 16 feet. Exclusive right turn lanes also will be provided along the corridor. MD 193 will be widened at the MD 193/U.S. Route 29 intersection to provide exclusive left and right turn lanes.

In order to provide greater intersection level-of-service, left turns from U.S. Route 29 are being denied. Jug-handle lanes are being proposed to accommodate left turning movements. Vehicles making a left turn movement from U.S. Route 29 onto MD 193 will first have to make a right turn onto MD 193 then use the jug-handles to proceed in the desired direction. Alternative C-6 Modified also includes the addition of two traffic signals located at the existing intersections of the jug-handles and MD 193.

One business displacement, Steuart/Agip Gas Station, will be required by Alternative C-6 Modified.

Alternatives C-2, C-4, and C-5 were not selected because construction would have disrupted the local business community for up to four years and because the alternatives were deemed too expensive for the resultant traffic level of service benefit. Alternative C-4 at grade was not selected since the resultant level-of-service remained in F and additional business displacements were required.

## At Sligo Creek Parkway

In light of uncertainties regarding both the development levels in the Silver Spring Central Business District (CBD) and the potential relocation of the Blair High School to the Sligo Creek Golf Course, MD SHA has delayed indefinitely any decision on the Sligo Creek Parkway intersection and is proceeding with obtaining Location and Design Approvals for improvements north of the Beltway only. This will allow MD SHA to work with Montgomery County in determining the appropriate improvement for the Sligo Creek Parkway intersection and other intersections between the Capital Beltway and downtown Silver Spring.

At-grade intersections are provided as listed below, with median crossovers and left turn bays provided at most locations: Franklin Street, Leighton Avenue, Brewster Avenue, Indian Spring Road, Granville Drive, Lanark Way (west side only), University Boulevard EB, University Boulevard WB, Timberwood Avenue, Circle Drive (east side only), Lorain Avenue, Southwood Avenue/Eastwood Avenue (west side only), Crestmoor Drive (east side only), Washington Suburban Sanitary Commission entrances, Manor Care/Exxon, Hillwood Drive (east side only), Lockwood Drive (MD Route 895) (east side only), Lockwood Drive Spur/Quality Inn connector, Burnt Mills Avenue, Southwest Drive (no median opening), Northwest Drive, Prelude Drive (west side only) and Oak Leaf Drive.

Alternatives North of MD 650

## At Stewart Lane

At Stewart Lane, Alternative C-4 was selected with a slight modification (Appendix A Map 2). Under Alternative C-4, the Stewart Lane intersection would be closed and a structure would be built at the existing location to convey Stewart Lane over U.S. Route 29. East of U.S. Route 29, Stewart Lane would access U.S. Route 29 via right-on, right-off movements 800 feet north of the overpass. These movements form a T-intersection with Old Columbia Road. An access ramp in the northeast quadrant would connect Old Columbia Road with Stewart Lane. West of U.S. Route 29, the southbound U.S. Route 29 off ramp would diverge south of the Stewart Lane overpass and go under the entrance ramp from Stewart Lane to southbound U.S. Route 29. After going under the entrance ramp, the exit ramp would diverge into two ramps. One ramp would lead to Stewart Lane and the other would lead to MD 650 ramp A.

There also is a ramp leading from Stewart Lane to MD 650 ramp A. This ramp provides for future development. Existing Milestone Drive would be closed south of Stewart Lane, but existing access would be maintained with the proposed alignment. The modification to this alternative was that the northbound right-in, right-out ramp will be moved south to intersect across from the Stewart Lane access ramp. The alignment of Old Columbia Road will be shifted eastward to provide more desirable intersection spacing.

Alternatives C-1, C-2, and C-3 did not provide intersection spacing as desirable as the selected alternative. They also did not have ramp movements as smooth as the selected alternative to MD Route 650 from US 29 and to US 29 from Stewart Lane.

## At Industrial Parkway and Tech Road

Alternative C-2, also with a slight modification, was selected at the combined location of Industrial Parkway and Tech Road (Appendix A - Map 3). This concept closes Tech Road as it exists and utilizes its alignment for an overpass that connects Tech Road with Old Columbia Road. Access to northbound U.S. Route 29 is achieved via right-on, right-off ramps at Industrial Parkway. The on ramp for southbound U.S. Route 29 is located north of the overpass and forms a T-intersection with Old Columbia Road, 300 feet north of the Tech Road/Old Columbia Road intersection. The Tech Road overpass would have been long enough to allow Prosperity Drive to be located under it. The southbound U.S. Route 29 access will be provided via the Randolph Road interchange. The modification to this alternative consisted of elevating Prosperity Drive to intersect with the Tech Road overpass, which will provide enhanced community access.

Alternative C-1 was not selected because the southbound off ramp to Old Columbia Road conflicted with a planned Park-N-Ride lot, and cul-de-sacs on Prosperity Drive were undesirable for community circulation that forced all traffic through intersections on Industrial Parkway.

## At Randolph, Musgrove and Fairland Roads

At the combined location of Randolph, Musgrove, and Fairland roads, Alternative C-4 was selected with a modification to the Randolph Road interchange (Appendix A - Map 3). All three roads would be severed from U.S. Route 29 and overpasses would be constructed at each of those locations utilizing existing alignments. Northbound U.S. Route 29 traffic wishing to exit at Randolph or Musgrove roads would use a Collector/Distributor (C-D) roadway south of Randolph Road. Northbound on and off ramps for Randolph and Musgrove roads are tied into this roadway which merges back into U.S. Route 29 north of Musgrove Road. Randolph Road has separate northbound exits for travel east and west. The northbound ramps at Musgrove Road form a T-intersection with Musgrove Road. Southbound on U.S. Route 29, the ramps are located in the northwest quadrant for both Randolph and Musgrove roads. The modification to Randolph Road consisted of removing the loop ramp in the northwest quadrant and replacing it with a diamond type ramp in the southwest quadrant. There is no access from U.S. Route 29 to Fairland Road. Access to Fairland Road is via Musgrove Road.

## At Briggs Chaney Road

At the combined location of Briggs Chaney Road and the proposed ICC, an alternative was selected for Briggs Chaney Road; however, nothing is being recommended for the ICC. Alternatives for the ICC interchange are being evaluated as part of the ICC Project Planning Study.

The alternative that was selected for Briggs Chaney Road was the tight diamond interchange as shown in Alternatives C-1, C-3 and C-5 with modifications (Appendix A - Map 4). These three alternatives have the same concept for Briggs Chaney Road but the options for the ICC varied. In each of the alternatives, the U.S. Route 29 and ICC interchange was tied into the U.S. Route 29 and Briggs Chaney Road interchange with a series of ramps. Vehicles were required to go through the U.S. Route 29/Briggs Chaney Road interchange in order to access the ICC.

The modifications consisted of separating the ramps into a series of interlacing ramps that provide exclusive access to the ICC and Briggs Chaney Road from U.S. Route 29.

Alternatives C-2, C-4, and C-6 were not selected because they included displacements that the selected alternative avoided, and because the complicated bridge construction to accommodate an Urban Diamond was not necessary. The selected alternative provided equal level-of-service.

## At Greencastle Road

At Greencastle Road, Alternative C-3 was selected since it results in less impact to area residences, and reduces the right-of-way requirements in the southwest quadrant (Appendix A Map 5). This concept cuts off Greencastle Road access to U.S. Route 29 as it exists and utilizes the existing alignment for an overpass. Access to and from Greencastle Road is achieved via a full diamond interchange.

Alternative C -1 was not selected because it requires more right-of-way while providing poorer ramp design than the selected alternative.

## At Blackbum Road

The alternative selected at Blackburn Lane was Alternative C-1 (Appendix A - Map 5). Under this concept, Blackbum Road's existing access to U.S. Route 29 is closed and an overpass is constructed 200 feet south of the existing at-grade intersection. Access to U.S. Route 29 is via ramps in the northwest and southeast quadrants. The ramps are an extended right-on, rightoff concept.

Alternative C-3 was not selected due to additional displacements associated with ramp design in the southwest quadrant and due to a shorter weaving length than the selected alternative with the southbound ramp at Greencastle Road.

## At MD 198 and Dustin Road

Alternative C-3 at MD 198 and a modified Alternative C-1 at Dustin Road were chosen. Alternative C-3 is the Master Plan alignment with a ramp underpass. Northbound U.S. Route 29 would access MD 198 via one exit ramp that diverges from and then goes under mainline U.S. Route 29. A lane at this ramp would be eliminated and northbound U.S. Route 29 would remain two lanes throughout the segment. This ramp would then intersect MD 198 at the existing U.S. Route 29/MD 198 intersection. At Dustin Road, there would be two diamond type ramps (Appendix A - Map 6), a northbound entrance ramp and a southbound exit ramp. Existing U.S. Route 29 between MD 198 and Dustin Road would remain as a four-lane roadway. The modification to these alternatives was to relocate the northbound entrance ramp from Dustin Road to the MD 198 interchange.

At MD 198, Alternative C-1 was not selected because of additional displacements associated with this alternative. Alternatives C-5 and C-6 were not consistent with the Master Plan.

At Dustin Road, Alternatives C-5 and C-6 tied into existing US 29 alignment and was not consistent with the selected Master Plan alignment at MD Route 198.

Table II-1 includes LOS information (year 2015) for the Selected Alternate for selected intersections and roadway improvements.

## E. CONGESTION MANAGEMENT STRATEGY (CMS) COMPONENTS

Many traditional and nontraditional strategies that would result in more efficient travel in the corridor were considered and evaluated. These strategies are described below and were investigated with information and coordination with local governments and the Metropolitan Planning Organization (MPO). A resolution documenting the following Congestion Management System (CMS) Major Investment Study (MIS) components was presented to the Metropolitan Washington Council of Governments (MWCOG) in September 1994. The resolution passed the Transportation Planning Board without any objections.

## 1. Transportation Demand Management (TDM) Measures

The potential for increased carpooling was studied. Obviously, some carpooling exists today primarily due to an established carpool/vanpool program through the MWCOG. However, even liberal assumption applied to the increase of carpooling in the future with encouragements such as corridor advertising and preferential parking were unable to reduce the number of single occupant vehicles to a point precluding the need for physical improvements throughout the corridor.

Alternative work hours as recommended by Montgomery County, MNCPPC and MWCOG already exist at employment centers south of U.S. Route 29, as can be witnessed by extended morning peak hours. Parking management measures are currently in place in Silver Spring with preferential treatment given to non-single occupant vehicles. These agencies will continue to work with employers to further expand these programs.

## 2. Traffic Operational Improvements

Operational improvements were studied as Alternative B throughout the corridor. These alternatives included intersection improvements such as improved turning radii, additional approach lanes, turning lanes, and installation of traffic signals. The resulting poor intersection LOS led to the conclusion by study participants that Alternative B improvements would not meet the study's objectives to provide long-term capacity and operational improvement.

## 3. Measures To Encourage High Occupancy Vehicle (HOV) Use

HOV is discussed in Section I.D - Interface with Mass transit Facilities and Services.

Table II-1
Prevailing Level of Service ${ }^{(1)}$
Selected Alternatives (2015)

| Miserntite | Pory cormen |  | Stewnt une. |  | Industrint <br> Purliwayl <br> Tech Lond |  | Randolph, Musgroye a Fitrlenderas. |  | Brizgs <br> Chaney <br> Rond |  | Creencastle Rond |  | Blact hum Rond |  | $\text { Mil } 198$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M/ | PM | \% | FM | MM | Mn | AN/ | PM. | M\% | PN | AM | PM | AM | PM | AM | PM | M | EM |
| C-1 |  |  |  |  |  |  |  |  |  |  |  |  | B | B |  |  |  |  |
| C-1 Modified |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C | C |
| C-2 Modified |  |  |  |  | D | D |  |  |  |  |  |  |  |  |  |  |  |  |
| C-3 |  |  |  |  |  |  |  |  |  |  | B | B |  |  | C | C |  |  |
| C-4 Modified |  |  | C | B |  |  | C | B |  |  |  |  |  |  |  |  |  |  |
| C-5 Modified |  |  |  |  |  |  |  |  | D | C |  |  |  |  |  |  |  |  |
| C-6 Modified | P(1.15) | F(1.01) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{(1)}$ Refer to Page I-7 for Prevailing Lovels-of-Service (LOS) - A-F explanation refer to Page I-7.

## 4. Public Transit Capital Improvements

Park-n-Ride lots exist today along U.S. Route 29 north of MD 650 and into Howard County (south of Randolph Road along Old Columbia Pike and Burtonsville). Park-n-ride lots are planned at White Oak (at New Hampshire/U.S. Route 29) and Fairland Road/U.S. Route 29. One park-n-ride lot has been developed on the east side of U.S. Route 29 near Spencerville Road. Park-n-ride lots have also been developed at Gatesburg Manor and Briggs Chaney Road, and at Tech Road and Old Columbia Road. Although as the corridor approaches build-out and sites for additional lots will become more scarce, MCDOT and MNCPPC will continue to look for additional areas to locate park-n-ride facilities.

The potential for a Light Rail Corridor along U.S. Route 29 was studied. A report comparing a busway corridor to a light rail corridor was prepared. Refer to Section I.D. for additional information on commuter assistance studies prepared by MDOT. The high cost of construction and ongoing maintenance of a light rail facility along with the lack of appropriate sites for stations and mode change facilities, and projected low ridership eliminated light rail as a reasonable alternative (see Section I.D). Improvement and expansion of the existing busway facilities will achieve similar ridership at much lower expense.

Montgomery County has initiated a bus route feasibility study in Spring 1994 along the U.S. Route 29 corridor to determine the feasibility of an exclusive bus lane that may include a reversible lane concept.

## 5. Public Transit Operational Improvements

A comprehensive bus routing system currently exists that has recently been expanded, with future expansion expected. Both MTA and Montgomery County provide bus service along U.S. Route 29. As a result of this study effort, a shoulder bus lane is operating north of MD 650 for exclusive use only during morning and evening peak periods. The existing shoulders were widened, where necessary, and resurfaced with a pavement structure suitable to sustain traffic. The shoulder, in effect, has become a fourth travel lane for buses which are the only vehicles permitted to use the shoulder lane. These travel lanes operated by MCDOT in coordination with MNCPPC and MDSHA will continue to be used along U.S. Route 29 after construction of the selected improvements are completed.

## 6. Measures to Encourage the Use of Nontraditional Modes

The corridor does not encourage nontraditional travel as an alternative mode of transportation over its 11.35 mile length. Provisions to move bicycle and pedestrians separately would result in additional expense and poorer level-of-service. Pedestrian overpasses were considered throughout the corridor south of MD 650 in association with the median removal concepts. However, the communities were opposed primarily due to aesthetics of overpasses. Also, all developed concepts provide sidewalks within the limits of improvement. However, in the Four Corners area, the Selected Alternative includes a particular focus on pedestrian traffic.

## 7. Growth Management and Activity Center Strategies

MNCPPC within Montgomery County has addressed growth management in the Eastern Montgomery County Master Plan (1981). Future development is limited to specific portions of the county, and controlled through a Growth Management Policy. Montgomery County has instituted programs such as the Annual Growth Policy (AGP) and the Adequate Public Facilities Ordinance (APFO) to help manage the growth in the County. Silver Spring has implemented flexible working hours, preferential parking restrictions, and expansion planning in accordance with the County Master Plan.

## 8. Addition of General Purpose Lanes

All of the planned widening proposed north of MD 650 along U.S. Route 29 from two general use lanes to three general use lanes has already been completed. South of MD 650 the only proposed capacity improvements are location specific to University Boulevard. These improvements are recommended with the concurrence of participating agencies and civic groups to provide uniform level-of-service throughout the corridor south of MD 650. Lastly, the bridge carrying U.S. Route 29 over MD Route 650 is programmed to be widened to provide for three travel lanes consistent with the sections on either side.

## 9. Conclusion

The implementation of CMS measures alone will not alleviate the need for additional SOV capacity along U.S. Route 29 (as demonstrated in the previous paragraphs). Reasonable strategies to manage the facility include further consideration of HOV lanes, trip reduction programs, enhanced bus and express bus service, and adherence to the County's Growth Management Policy. Current commitments to these strategies are realized with the Montgomery County bus route feasibility study initiated in Spring 1994.

## II. AFFECTED ENVIRONMENT

## A. LAND USE, SOCIAL AND ECONOMIC

The following is a summary of the existing land use and socioeconomic environment for the project area. More detailed information is contained in the Socioeconomic Technical Analysis Report prepared in support of this Final Environmental Impact Statement (FEIS).

## 1. Land Use and Planning

## a. Existing Land Use

Land use along U.S. Route 29 is comprised of residential properties, interspersed with commercial and industrial developments. Figure III-1 (located at the end of this section) illustrates the existing land use of the area.

The intensity of development generally decreases northward along the corridor. Extending north from Sligo Creek in Sligo Creek Park and passing through the I-495 interchange and the heavily developed "Four Comers" intersection with MD Route 193 (University Boulevard), the U.S. Route 29 corridor is characterized by intensely developed commercial and residential land uses. Except for the vacant tract of land bounded by I-495/U.S. Route 29/MD Route 193 known as the Kay Tract, the remaining portions of this section of the corridor are developed.

From Paint Branch Park to Briggs Chaney Road, the corridor is intensely developed with industrial parks and residential land use. The Intercounty Connector (ICC) is scheduled to cross U.S. Route 29 on the only other vacant tract of land, between Fairland Road and Briggs Chaney Road.

Except for the major commercial developments at MD Route 198 (Spencerville Road) and the Paint Branch High School, the majority of the corridor north of Briggs Chaney Road consists of residential and open space/wooded land uses.

## b. Future Land Use Plans

Figure III-2 (located at the end of this section) depicts the future land use for the study area based on available land use plans. Montgomery County has undertaken several planning projects since the adoption of the 1964 Montgomery County General Plan. By geographically dividing the County into planning areas, the County is able to focus planning efforts on areas sensitive to additional growth. The most recent future land use plans for the area include the 1986 Four Comers Sector Plan, Kemp Mill-Four Comers Planning Area and the 1981 Master Plan, Eastern Montgomery County Planning Area, as amended. In 1990, the Montgomery County Council adopted a Trip Reduction Amendment to the Eastern Montgomery County Master Plan to deal with increasing traffic congestion on U.S. Route 29. This is an interim measure to reduce potential future growth until the master plan is updated.

In 1993 the County Council developed a Final Draft General Plan Refinement (to the 1964 General Plan) that included a primary goal to "provide a safe and efficient transportation system that serves the environmental, economic, social, and land use needs of the County and provides a framework for development." Many of the issues raised by the community are similar to those raised by the Four Corners community in its Issues Report.

Currently, the Maryland-National Capital Park and Planning Commission is in the process of developing a new Master Plan for the Four Corners, White Oak, and Fairland Communities, all of which are areas that comprise the U.S. Route 29 corridor. In the interim, the Maryland-National Capital Park and Planning Commission has issued a series of reports for each master plan area that addresses the community's concerns and outlines the issues that will ultimately be addressed in the Master Plan. The Master Plan is expected to be adopted in the summer of 1995.

The Four Corners Sector Plan focuses on the enhancement of the established Four Corners community. The following list contains elements of the plan which are of considerable importance to the U.S. Route 29 study. The Four Corners Plan:

- Recommends the low-density residential character of the area be maintained and protected;
- Proposes a mixture of residential, office and commercial uses on the Kay Tract; - Proposes sites for elderly housing;
- Recommends short-term and long-term operational improvements for the U.S. Route 29/University Boulevard intersection;
- Proposes improvements to facilitate safe traffic flow;
- Recommends a network of bicycle and pedestrian routes;
- Recommends an Historic District along U.S. Route 29 and Sutherland Road.

The Four Comers Master Plan Issues Report (1993) raises several issues the community would like to see addressed in the next Master Plan. Among the issues which are of importance to the U.S. Route 29 study: (1) the future development of the Kay Tract, (2) implementation of the selected alternative at Colesville Road, (3) cut-through traffic on residential streets, (4) pedestrian safety improvements, and (5) commercial revitalization at Four Comers.

The Eastern Montgomery County Planning Area includes three subareas: Cloverly, White Oak, and Fairland. U.S. Route 29 traverses White Oak from the Northwest Branch to Paint Branch and Fairland from Paint Branch to Burtonsville. Cloverly is located outside of the project area. The 1981 Master Plan recommends the concentration of future development where it can be served by transit. Any changes to U.S. Route 29 have the potential to affect transit serviceability, which may enhance or deter future land use development. These impacts will be discussed in Section IV, Environmental Consequences.

The land use plan for the Eastern Montgomery County area delineates expected development patterns adjacent to U.S. Route 29. The Eastern Montgomery Area Plan:

- Concentrates commercial development at White Oak, Fairland, Burtonsville, and Colesville;
- Concentrates industrial development and employment at the Montgomery Industrial Park (which is the former University of Maryland Plant Research Farm) and at Burtonsville;
- Recommends a mix of housing types;
- Designates low-density residential uses in the Upper Paint Branch watersheds;
- Retains the Intercounty Connector (ICC) as a major county-wide transportation facility;
- Proposes a network of express bus routes, neighborhood bus services, and fringe parking lots to reduce dependence on the automobile;
- Encourages a network of bicycle and pedestrian routes to enhance safety for cyclists and walkers;
- Designates Transferable Development Rights (TDR) to help preserve agricultural lands in Montgomery County;
- Encourages use of cluster developments to provide additional watershed protection throughout the area; and,
- Recommends designation of several historic sites to preserve the cultural heritage of the area.

Residential expansion is planned north of the White Oak center. The expansion of industrial development at the Montgomery Industrial Park and West Farm Industrial Park would provide tax revenue to support residential development. Because commercial and industrial areas are critical to the self-sufficiency of the area, such development should be encouraged and enhanced.

In 1990, the County Council adopted an amendment to the Master Plan which attempts to address increasing traffic congestion in Eastern Montgomery County. As a consequence of the imbalance between transportation facilities and traffic generated by land uses, the Council directed the Planning Board to study the effect that downzoning vacant and redevelopable land in Eastern Montgomery County would have on traffic congestion. The end result was the following Trip Reduction Amendments:
(1) The Council agreed to remove recommendations for Planned Development (PD) optional development for all properties not already zoned PD.
(2) The Council also decided to reduce densities for Transferable Development Rights (TDR) receiving areas in the 1981 Master Plan.

Both of these actions would have the effect of reducing potential residential trips from 10,653 to 7,300 on residentially zoned land. In addition, the property owners of the major undeveloped industrial-zoned properties in Eastern Montgomery County have executed trip reduction agreements with the Montgomery County Planning Board. These agreements are expected to result in a reduction of 10,200 trips on vacant and redevelopable land.

According to the White Oak Master Plan Issues Report, the White Oak area has generally developed in a manner consistent with the 1981 Master Plan recommendations. Commercial development was concentrated in the established commercial areas and has not spread into the surrounding neighborhoods. However, traffic on U.S. Route 29 has increased due to development that has occurred in Howard County and in Fairland.

Much of the development in both the Fairland and White Oak areas has been consistent with guidelines recommended in the 1981 Master Plan. For example, there is now greater housing "diversity" in Fairland, an objective of the 1981 Master Plan, but the community is concerned about the rapid increase over the past decade of multi-family units relative to singlefamily units. Another major concept stressed in the 1981 Master Plan was "transit serviceability".

Although residential densities were achieved that could sustain transit, neither transit utilization nor road improvements have kept pace with development, resulting in increased traffic congestion, deteriorating levels of service at many intersections, and a moratorium on subdivision approvals in Fairland and White Oak. If transit serviceability is to continue to be a viable concept for Fairland, improvements along U.S. Route 29 will have to take place.

The above section has summarized the issues surrounding the preparation of the future land use plan, in addition to listing the future land use plans presently in effect. As described above, most of the development in the planning areas along the U.S. Route 29 corridor has proceeded in accordance with the guidelines recommended in the 1981 Master Plan. However, development has proceeded much faster than transportation improvements, resulting in much congestion and a moratorium on development in many areas. If community desires outlined in the Issues Reports are to be followed, and transit serviceability is to remain a viable concept, development must be closely linked to transportation improvements, and strongly regulated, as it is now.

## 2. Social Characteristics

## a. Population and Housing

Table III-1 delineates existing (1990) population and household data for the U.S. Route 29 Corridor, Montgomery County and the State of Maryland including total population, median age, percent population over 65, number of households, and mean household income. The U.S. Route 29 corridor area data were provided by the Metropolitan Washington Council of Governments (COG) and U.S. Census Bureau. The boundaries of the area considered as the corridor are shown on Figure III-3 (located at the end of this section).

Table III-2, Growth Projections for U.S. Route 29 Corridor, gives historic and projected growth trends in population, housing, and employment for years 1990, 1995, 2000 and 2005. Population, number of households and employment are expected to continue to grow within the corridor.

## Table III-1

Characteristics of the Population - 1990 U.S. Route 29 Corridor, Montgomery County and Maryland

|  | Population | Median 4yent | 9: Ropulation 654.Yearsin | houneholus | Mean tionsetolid meonent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Route 29 Corridor | 68,326 | NA | NA | 26,945 | NA |
| Montgomery County | 757,027 | 34 | 27.4\% | 282,228 | \$54,089 |
| Maryland | 4,781,468 | 33 | 10.8\% | 1,748,991 | \$39,386 |

NA - Not Available
${ }^{(1)}$ This information not available from U.S. Census.
Sources: 1990 Census of Population and Housing Summary Tape File 3A.

* Numbers in Household statistics with Round III tabulations from Metropolitan Washington COG may vary due to the survey sample methodology.

Table III-2

## Growth Projections For U.S. Route 29 Corridor*

1990-2005

| Characteristar | 1900\% | \#S\% | \%. Wiange 1900. 190 | H00. | \#ikinirkithor | \% Chamg 190 2005 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Population | 68,326 | 68,443 | .17\% | 74,689 | 9.1\% | 9.3\% |
| Household | 26,945 | 28,098 | 4.2\% | 33,308 | 18.5\% | 23.6\% |
| Employment | 31,438 | 34,906 | 11.0\% | 42,113 | 20.6\% | 40.0\% |

Source: Metropolitan Washington Council of Governments, Round IV, Cooperative Forecasts, Department of Metropolitan Development and Information Resources. Revised 1990.

* The corridor boundary (with the designated zones) is shown on Figure III-3.

Table III-3 gives the racial composition and Spanish origin of persons in eastern Montgomery County, Montgomery County, and Maryland. Eastern Montgomery County, the corridor area, is predominately White ( $59 \%$ ), but does have sizable Black ( $27 \%$ ), Asian ( $9 \%$ ), and Hispanic ( $11 \%$ ) populations.

Table III-3
Persons By Race and Spanish Origin - 1990 Eastern Montgomery County, Montgomery County, and Maryland

| Area |  |  |  |  | R |  |  |  |  |  | Arspanicouthin (0) amyrs r) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Whint |  | Mlse |  | Indiali, Besimimosand Alautian |  | Isiam,and Pacith Islander |  | OLuer |  |  |  |
|  | Aralles, | Persent | Numitor | Prener | Namleral | Percen, | Ninimer | Percent. | Mumbe\% | Percent | Fimiler | Farsant |
| Eastern Montgomery County* | 93,645 | 58.8 | 43,238 | 27.1 | 479 | 0.30 | 13,903 | 8.7 | 8,080 | 5.0 | 7,913 | 11.2 |
| County | 580,635 | 77 | 92,267 | 12.2 | 1,841 | 0.24 | 61,981 | 8.2 | 20,303 | 2.7 | 55,684 | 7.4 |
| State | 3,393,964 | 71 | 1,189,899 | 25 | 12,972 | 0.27 | 139,719 | 2.9 | 44,914 | 0.93 | 125,102 | 2.6 |

Sourco: 1990 Census of Population and Housing.

* Congressional District 4.


## b. Neighborhoods

The population of the U.S. Route 29 corridor is concentrated in five neighborhoods: Indian Springs, Four Corners, Burnt Mills/White Oak, Fairland, and Burtonsville, which includes Briggs Chaney. Figure III-3 depicts the zones for each area. Population, housing and employment growth projections by neighborhood are presented in Table II-4. There are several communities within each neighborhood, as shown on Figure III-4 (located at the end of this section). There are over 200 civic organizations located within the Montgomery County U.S. Route 29 corridor. Civic associations in the five neighborhoods have actively participated throughout the planning of the U.S. Route 29 highway improvement project.

## c. Community Facilities and Services

Community facilities and services immediately adjacent to U.S. Route 29 include religious, emergency service, health care, educational, recreational and miscellaneous facilities. The corridor and surrounding communities are adequately served by existing community facilities. Figure III-5 (located at the end of this section) shows the location of community facilities and services. Numbers included in the following discussion refer to the numbers of the facility on Figure III-5.

## d. Religious Facilities

The area is served by a variety of religious facilities including Protestant, Catholic, and both Orthodox and Reform Jewish Congregations, as shown on Figure III-5. Religious facilities include the Marvin Memorial United Methodist (3), Southeast Hebrew Congregation (11), Shaare Tefila Congregation (10), Burnt Mills Seventh Day Adventist (23), Forcey Memorial Fundamental (13), St. Mark's Episcopal (14), Roberts Memorial Free Methodist (15), Epiphany Lutheran (17), Liberty Grove United Methodist (19), and Columbia Primative Baptist (20).
e. Education Facilities

Numerous elementary, junior and senior high schools exist throughout the corridor. These schools include:

- Springbrook High School (11)
- White Oak Junior High School (15)
- Jackson Road Elementary School (16)
- Burnt Mills Elementary School (12)
- Banneker Junior High School (21)
- Paint Branch High School (20)
- Fairland Elementary School (17)
- Galway Elementary School (18)
- Greencastle Elementary School (19)

Table III-4
Population Projections by Neighborhoods 1990-1995-2005

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| , Neighborlionds | $1990$ | \%. Nhange | \% $\%$ ¢ $\%$ \% | \% Winitet $19892003$ | 209s | \% \%hinge |
| POPULATION |  |  |  |  |  |  |
| Indian Springs ${ }^{2}$ | 8,051 | -3.9\% | 7,734 | -4.7\% | 7,367 | -8.5\% |
| Four Corners ${ }^{3}$ | 9,456 | -3.4\% | 9,132 | -6.6\% | 8,530 | -9.8\% |
| Burnt Mills ${ }^{4}$ | 14,550 | 1.2\% | 14,727 | -5.9\% | 13,860 | -4.7\% |
| Fairland ${ }^{5}$ | 11,568 | 1.8\% | 11,780 | 15.8\% | 13,647 | 18.0\% |
| Burtonsville ${ }^{6}$ | 20,558 | 2.6\% | 21,090 | 28.6\% | 27,127 | 32\% |


| HOUSEHOLDS |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Indian Springs | 3,175 | $0 \%$ | 3,175 | $3.5 \%$ | 3,285 | $3.5 \%$ |
| Four Corners | 3,729 | $.54 \%$ | 3,749 | $1.5 \%$ | 3,804 | $2.0 \%$ |
| Burnt Mills | 5,738 | $5.4 \%$ | 6,846 | $2.2 \%$ | 6,181 | $7.7 \%$ |
| Fairland | 4,562 | $6.0 \%$ | 4,836 | $25.9 \%$ | 6,086 | $33.4 \%$ |
| Burtonsville | 8,107 | $6.8 \%$ | 8,658 | $39.7 \%$ | 12,098 | $49.2 \%$ |


| EMPLOYMENT |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Indian Springs | 110 | $9 \%$ | 120 | $3.9 \%$ | 167 | $51.8 \%$ |
| Four Corners | 1,016 | $5.9 \%$ | 1,076 | $18.7 \%$ | 1,277 | $25.7 \%$ |
| Burnt Mills | 7,417 | $3.6 \%$ | 7,682 | $8.6 \%$ | 8,341 | $12.5 \%$ |
| Fairland | 13,369 | $14.8 \%$ | 15,354 | $27.3 \%$ | 19,549 | $46.2 \%$ |
| Burtonsville | 4,269 | $22.5 \%$ | 5,231 | $30.8 \%$ | 6,844 | $60.3 \%$ |

Source: Metropolitan Washington Council of Governments, Round IV-1, Cooperative Forecasts, Department of Metropolitan Development and Information Resources. Revised 1990.

1 Neighborhoods listed below do not include total population/population projections of U.S. Route 29 corridor.

2 Indian Springs data generated from zones $147 \mathrm{G}, 147 \mathrm{H}, 147 \mathrm{~J}$.
${ }^{3}$ Four Corners data generated from zones 156C, 156D, 156E.
4 Burnt Mills/White Oak data generated from zones 157C, 157D, 157J, 157H.
5 Fairland data generated from zones $157 \mathrm{M}, 157 \mathrm{~N}, 157 \mathrm{P}, 157 \mathrm{Q}$.
6 Burtonsville data generated from zones $164 G, 164 \mathrm{H}, 164 \mathrm{~J}, 164 \mathrm{~K}$.

## f. Recreational Facilities

The County provides an abundance of park and recreational facilities (Figure III-5), under the jurisdiction of the Maryland-National Capital Park and Planning Commission. These parks provide a broad range of recreational facilities for activities including boating, swimming, baseball, tennis and passive recreation. The following facilities are located within the U.S. Route 29 corridor study area:

- $\quad$ Sligo Creek Park (22)*
- Northwood Park (3)*
- Northwest Branch Park (5)
- Rocky Brook Park (7)
- Cannon Road Park (9)
- Paint Branch Park (10)*
- Martin Luther King Park (11)
- East Fairland Park (15)
- Galway Park (14)
- West Fairland Park (16)
- Calverton Park (13)
- Tanglewood Park (17)
- Columbia Park (20)
- Fairland Regional Park (18)
- T. Howard Duckett Watershed (21).
- Edgewood Local Park (24)
* Located adjacent to U.S. Route 29.


## g. Emergency Services

The County's Department of Fire and Rescue Services and the Department of Police are responsible for providing safety for the U.S. Route 29 corridor. Police protection to Four Corners and south of Fairland Road is provided by the Silver Spring District Station. North of Fairland Road is within the service area of the Wheaton-Glenmont District Station.

Fire and rescue departments and service areas include:

- Silver Spring Fire Department (1) -- I-495 to MD Route 650.
- Hillandale Fire Department (2) -- MD Route 650 to Musgrove Road.
- Burtonsville Fire Co. 15 (3) -- Musgrove Road to Howard County Line.
- Burtonsville Volunteer Fire Department (4)

Eastern Montgomery County is adequately served by numerous health facilities including Montgomery County General in Olney, National Navel Medical Center in Bethesda, the Walter Reed Hospital Annex and Holy Cross in Forest Glen, Kensington Georgetown Medical Center in Kensington, and numerous private facilities. In addition, Montgomery County Health Department operates two facilities in Silver Spring and Wheaton which supplement individual and family health services. The Burtonsville Family Health Center is located east of the MD Route 198/U.S. Route 29 intersection.

## h. Miscellaneous Facilities

Several other public and private facilities, including libraries, post offices, golf courses and shopping centers, are adjacent to U.S. Route 29. The Fairland Library (4) is on U.S. Route 29, northeast of the U.S. Route 29/University Boulevard intersection. The White Oak Library (8) located west of U.S. Route 29 on New Hampshire Avenue, is less sensitive to proposed changes to the highway.

In addition to public libraries, two post offices are located within the U.S. Route 29 corridor: Woodmoor Post Office (6) at Four Corners and Burtonsville Post Office (17). Shopping areas have developed at major intersections: Woodmoor Shopping Center (21), east of the University Boulevard and U.S. Route 29 intersection; White Oak Shopping Center (11), east of the New Hampshire Avenue/U.S. Route 29 intersection; Briggs Chaney Plaza (14), east of the Briggs Chaney Road/U.S. Route 29 intersection; and Burtonsville Shopping Center (18) and Burtonsville Crossing Shopping Center (26), northwest and northeast of the MD Route 198/U.S. Route 29 intersection, respectively.

Planning for additional services and/or elimination of services when the population grows or declines has been an ongoing process in Montgomery County. Proposed changes to existing conditions require careful consideration and analyses. In the case of changes made to a major highway system such as U.S. Route 29, careful consideration of the communities' present condition and planned future condition are necessary to protect every aspect of the corridor's environment.

## 3. Economic Characteristics

## a. Economic Activity - Planned Development

The potential for the area to expand its economic activities is dependent on several factors, including availability of vacant and/or underutilized land and an efficient transportation network. Continued planning of development will ensure a sound economic base for the area.

The land use plans emphasize the degree to which expansion is expected in future activities (Figure III-2). The greatest potential for new economic activity at Four Corners will be on Kay Tract. In the White Oak area, east of U.S. Route 29, expansion of retail activities, the Naval Surface Weapons Center and a multi-family residential area, have left no available land for the expansion of the Silver Springs Industrial Park. The Silver Springs Industrial Park is currently occupied by Wall Street Journal and Dow Jones, Inc. Commercially zoned development potential does exist in the northwest quadrant of the MD Route 650 interchange, the Montgomery Industrial Park, and the West Farm Industrial Park.

The Montgomery Industrial Park is located south of Tech Road. Several large corporations have located offices within the Montgomery Industrial Park including Singer, Advanced Biotechnologists, Computer Entry Systems Corporation, International Fabricaire Institute, and AT\&T. The industrial land use will have further expansion opportunities to the east of current development and to the north in the West Farm Industrial Park.

## b. Employment and Income

The economic activity in the U.S. Route 29 corridor is not concentrated in any one business activity, but is distributed among several industries. Table III-5 describes the number of employees in industrial, retail, office and other employment along the U.S. 29 corridor. The majority of business activity is found in services, retail trade, wholesale trade, and others which include agriculture. Service, retail and wholesale trade are concentrated at the Four Corners Commercial Center, White Oak Shopping Center at New Hampshire Avenue, Silver Spring Industrial Park at White Oak, Montgomery Industrial Park, Montgomery Auto Park at Briggs Chaney Road, Burtonsville Shopping Center and Burtonsville Crossing Shopping Center (Figure III-1, Existing Land Use Map). Agricultural lands are interspersed throughout the corridor but primarily are located beyond Greencastle Road to the north.

## 4. Transportation System

## a. Transit

Existing bus service in the U.S. Route 29 corridor is provided by WMATA METRO BUS (Routes Z-4, Z-7, Z-8 and Z-9) and several private bus companies. Table III-6 summarizes bus service in the corridor.

Based on the "Journey to Work" data from the 1990 Census, Table III-7 summarizes the total number of person trips, \% trips by transit, and total number of trips by transit for three sub-areas of the U.S. Route 29 corridor.

## b. Pedestrian and Bicycle Travel

Figure III-5 depicts the existing and proposed bikeways including proposed bike paths at:

- Woodmoor Shopping Center, and north of U.S. Route 29;
- U.S. Route 29 to Lockwood Drive, including bridge over Paint Branch;
- Intersection of U.S. Route 29 with Stewart Lane;
- Intersection of U.S. Route 29 with Randolph Road;
- Intersection of U.S. Route 29 with Greencastle Road; and
- Intersection of U.S. Route 29 with MD Route 198.

Since the U.S. Route 29 corridor has developed as a primary transit corridor, the lack of sidewalks has hindered pedestrian movement. The addition of sidewalks in developed areas would be necessary to allow pedestrian movement to activity centers and for safety. Although sidewalk construction is usually the responsibility of private developers and/or the County sidewalks will be constructed on both sides at U.S. Route 29 intersection with University Boulevard. The following additional sidewalks may be constructed by the County as part of this project:

- Commercial centers at White Oak, Burnt Mills, and Burtonsville
- U.S. Route 29 from Four Corners to White Oak.

Table III-5
Characteristics of Employment 1990 - U.S. Route 29 Corridor (Number of Employees)

| Category | Number | Perumpof Total Rmplogies |
| :---: | :---: | :---: |
| Industrial Employment | 2,903 | 9.2\% |
| Retail Employment | 5,423 | 17.3\% |
| Office Employment | 13,976 | 44.5\% |
| All Other Employment | 9,136 | 29.0\% |
| Total | 31,438 | 100\% |

Source: MWCOG Round IV-1, Cooperative Forecast Revised 1990.

Table III-6
Bus Service (1994)

|  | Buse: INHAM <br> Hen Hinurs d | Ayruge Number of Permons pers Bus |
| :---: | :---: | :---: |
| Metro Bus Io Silie Springor |  |  |
| From Greencastle Road (Z-9) | 8 | - |
| From Briggs Chaney Road (Z-8) | 17 | - |
| From Randolph Road (Z-4) | 6 | - |
| From Randolph Road (Z-7) | 5 | - |

Private Buses

| Eyre Bus Service | 18 | 40 |
| :--- | :---: | :---: |

(1) Peak Hours: 6:00 A.M. - 9:00 A.M.
(2) Washington Metropolitan Area Transit Authority (WMATA), May, 1994.
${ }^{(3)}$ Eyre Bus Service, 1994.

Table III-7
Corridor Transit Travel (1990)


Source: 1990 U.S. Census, Journey to Work Survey Data.

Equestrian trails also cross U.S. Route 29 at:

- Paint Branch Park
- Briggs Chaney Road
- North of Greencastle Road
- North of MD Route 198


## 5. Aesthetics/Visual Environment

Proceeding from south to north along the project corridor, the visual environment generally changes from human dominated land uses, such as housing and commercial development, to a more rural/open space environment. From the Sligo Creek Parkway to MD Route 650, the view is generally dominated by single family housing. The "Kay Tract" and the Northwest Branch Park are the two major open spaces in this area. The Kay Tract is slated for future development although at this time the type of development has not been determined.

North of MD Route 650, the corridor contains more open space, including open space, agricultural land and wooded areas, and fewer residential and commercial areas. Several large industrial and commercial parks are located in this area. Other areas providing visual amenities include Paint Branch Park and the Rocky Gorge Reservoir. Rocky Gorge Reservoir is a large freshwater impoundment surrounded by mature hardwoods up to 50 feet high. The reservoir lies in a wide valley and is easily visible from U.S. Route 29.

## B. HISTORIC AND ARCHAEOLOGICAL RESOURCES

## 1. Historic Resources

An inventory performed by the MD SHA, with concurrence from the Maryland Historic Trust (MHT), identified five sites in the study area which are possibly National Register Eligible (NRE). These sites are:

- Polychrome Houses Historic District (M 32/5)
- Conley House (M 34/10)
- Marlow (Bushnell) House (M 34/8)
- Columbia Primitive Baptist Church (M 15/62)
- St. Marks Chapel (M 34/9)

These sites are considered significant for the following reasons:

- The Polychrome Houses Historic District (M 32/5) is significant architecturally for its five component dwellings which are early examples of a building technology introduced to Montgomery County in the 1930's. This inexpensive pre-fabricated type of concrete construction was developed as a solution to the problem of shortages of affordable housing in the decades between the two World Wars. The houses bordering U.S. Route 29 are located at 9900 and 9904 Colesville Road. The other three are located behind them and in front of Sunderland Avenue.
- The Conley House (M 34/10) is historically significant for its association with the Conley Family who has owned the land since the early 1800's. The house is architecturally significant as well for its Colonial Revival style which is unique to the area. This house is located at 12500 Old Columbia Pike.
- Marlow (Bushnell) House (M 34/8), a substantial farmhouse, is significant historically for its association with three prosperous and influential Montgomery County families. It is also significant as a typical farm dwelling which was considerably expanded by its 19th century owners as a result of increasing family size and prosperity. It is located at 2525 Musgrove Road.
- Columbia Primitive Baptist Church (M 15/62), a small frame building with a graveyard, is significant as the house of worship for one of the earliest Baptist congregations to form in the area. It is located on the west side of U.S. Route 29 north of MD Route 198.
- St. Marks Chapel (M 34/9) is an early nineteenth century chapel built in the rural Gothic Revival style. It retains integrity despite two twentieth century additions. The chapel belongs to one of the earliest Episcopal Parishes in the area. It is located at 12621 Old Columbia Pike.


## 2. Archeological Sites

The project area was reconnoitered for archeological sites by the Division of Archeology, Maryland Geological Survey. Five potential archeological sites were located including: 1 historic archeological site ( 18 HO 142 ), 3 prehistoric sites ( $18 \mathrm{MO} 272,18 \mathrm{MO} 273$ and 18 MO 274), and 1 mixed prehistoric/historic site ( 18 MO 27). A letter from the State Historic Preservation Officer (SHPO) contained in Section VII discusses the archeological sites and the need for additional work on Site 18 MO 274. None of the other sites warranted additional work as they did not have the potential to yield important information in accordance with the criteria set forth by the National Register of Historic Places. A Phase II Archeological Survey was performed on Site 18 MO 274 . Because of low frequency of artifacts and the disturbed context, it was concluded that the site lacks research value and thus would not meet the criteria for inclusion in the National Register. The SHPO agreed with this assessment as indicated in the August 28, 1989 correspondence, which is included in Section VII.

## C. NATURAL RESOURCES

The following summarizes natural resources of the study corridor. Detailed information is provided in the Natural Resources Technical Analysis Report prepared in support of this FEIS.

## 1. Water Resources

## a. Surface Water

U.S. Route 29 crosses two drainage sub-basins, as defined by COMAR 10.50.01 (December 31, 1985) within the Montgomery County study area: the Patuxent River Area and the Washington Metropolitan Area. Most of the corridor is drained by tributaries of the Anacostia River (Washington Metropolitan Area). The northernmost portion of the corridor is drained by the Patuxent River. Table III-8 lists the drainage basins and the number of streams and tributaries crossed by and situated adjacent to U.S. Route 29. These streams, shown on Figure III-6 located at the end of this section, are briefly described below.
U.S. Route 29 passes over Northwest Branch approximately 350 feet downstream of the Burnt Mills Dam. The stream is conveyed under the 6-lane divided roadway through a concrete box culvert approximately 90 feet long and 45 feet wide. U.S. Route 29 passes over Paint Branch on a bridge approximately 80 feet above the streambed. The U.S. Route 29 bridge over Rocky Gorge Reservoir is 4 lanes wide and approximately 400 feet long. The six intermittent headwater tributaries of Little Paint Branch pass under U.S. Route 29 through three-to-six-foot wide pipes or culverts between Fairland Road and MD Route 198.

In addition to the streams which pass under U.S. Route 29, there are three additional intermittent headwater tributaries of Little Paint Branch and two tributaries of the Patuxent River adjacent to the roadway, as identified in Table III-8. Several small stormwater management

Table III-8
Study Corridor Streams Information

| A. Streams, ©rossed by U.S. Route 29 |  |  |
| :---: | :---: | :---: |
| Tributary | Drainage Sub-Basin | Location of Crossing (Stations) |
| Northwest Branch | Washington Metropolitan Area | 160-165 |
| Paint Branch | Washington Metropolitan Area | 270 |
| Little Paint Branch | Washington Metropolitan Area |  |
| Tributary (1)* |  | 395 |
| Tributary (2) |  | 425 |
| Tributary (3) |  | 445 |
| Tributary (4) |  | 460-465 |
| Tributary (5) |  | 490-495 |
| Tributary (6) |  | 520 |
| Patuxent River <br> (Rocky Gorge Reservoir) | Patuxent River | 625 |
| B. Streams.Adjacent to US.S. Route 29 |  |  |
| Tributary | Location |  |
| Northwest Branch |  |  |
| Tributary (12) | West of U.S. Route 29 and south of Northwest Branch Park |  |
| Little Paint Branch |  |  |
| Tributary (7)* | East of U.S. Route 29 and south of Musgrove Road West of U.S. Route 29 in vicinity of Old Columbia Road East of U.S. Route 29 and south of MD Route 198 |  |
| Tributary (8) |  |  |
| Tributary (9) |  |  |
| Patuxent River |  |  |
| Tributary (10) | East of U.S. Route 29 and north of MD Route 198 |  |
| Tributary (11) | East of U.S. Route 29 and | f MD Route 198 |

[^0]basins, associated with industrial and commercial developments also are found along the corridor. Volumes of water retained in these basins are related to storm events, pond design and evaporation.

Available water quality data for Northwest Branch, Paint Branch and Rocky Gorge Reservoir reveal violations of the Maryland Receiving Water Quality Standards for fecal coliforms at all sampling stations except for the Rocky Gorge Reservoir. The dissolved oxygen standard was violated at the Rocky Gorge Reservoir. Standards for other parameters were not violated at stations where sampling was conducted.

Allowable uses for area streams are given in Table II-9. The Patuxent River and adjacent land area in the northern portion of the study area constitute the Rocky Gorge Reservoir, a suburban Washington, D.C. water supply. The Patuxent River is classified as a recreational trout stream as is Northwest Branch, a recreational fishery stocked with rainbow trout. Paint Branch is classified as a natural trout stream and supports a naturally-breeding population of brown trout. The headwater tributary, Good Hope Branch is the primary spawning area of Paint Branch, approximately two miles west of the U.S. Route 29 study area. The mainstem of Paint Branch is considered to be a marginal to fair quality trout habitat and is not a spawning area. Little Paint Branch is denoted as contact recreation waters supporting warmwater fish species. Study area streams can be used for fishing, with some of the larger water bodies able to accommodate small boats. The small size of area streams limits recreational activities to wading and swimming.

Table III -9
Maryland Water Use Classifications for U.S. Route 29 Associated Tributaries


Stream valley parks are located adjacent to Northwest Branch and Paint Branch in the project area. The Anacostia River and its tributaries which include Northwest Branch and Paint Branch have been designated as scenic and wild rivers by the MD DNR. The purpose of this designation is to protect the scenic and recreational values of this river system.

No federally listed or proposed threatened or endangered species exist in area waters (USFWS letter in Section VII). MD DNR has noted the presence of the rare amphipod species Stygobromus L potomacus and Stygobromus pizzinii in a few small streams adjacent to U.S. Route 29 (Maryland DNR letter in Section VII).

## b. Groundwater

The major water-bearing formation in Montgomery County is the ancient Pre-Cambrian and Paleozoic Age crystalline rocks of the Piedmont Plateau. In general, the crystalline rock aquifer is considered suitable for providing limited quantities of high quality water. It underlies most of the entire study area. Well yields in the crystalline rock aquifer range from less than 1 gallon per minute (gpm) to 183 gpm , with yields generally averaging 11 gpm . The water table is generally 10 to 35 feet below the surface. A small portion of the Patuxent formation aquifer is crossed by the U.S. Route 29 corridor in the area of Greencastle Road. This aquifer is more sensitive to development impact but is predominantly located east of the U.S. Route 29 study area.

Precipitation is the principal source of aquifer recharge in the study area. Average annual rainfall in the Anacostia River Basin is approximately 42.5 inches, of which an estimated 9 to 10 inches are available as recharge.

Groundwater is the primary source of potable water available to residents outside the Washington Suburban Sanitary Commission service areas. Groundwater resources serve as a suitable water supply to individual homes in rural areas. However, due to limited yields, municipalities now use treated surface water rather than groundwater to meet the need for larger water supplies. There are no residences dependent on wells for water in the study area.

## 2. Floodplains and Wetlands

Floodplains are terrestrial areas adjacent to streams and rivers which typically receive and convey surface water overflow during flood events. They are generally flat or gently sloping, with deep eutisol soils, and often have wetlands within their limits. For purposes of this study, floodplains are those areas covered by surface waters from the 100-year storm event. Figure III-6 shows the 100-year floodplains for streams within the project corridor. The Patuxent River, at the U.S. Route 29 crossing, is controlled by the Washington SuburbanSanitary Commission's (WSSC) Rocky Gorge Reservoir. The elevation of the 100 -year floodplain of this impoundment is controlled by the operation of Rocky Gorge Dam.

The 100-year floodplain of Northwest Branch is approximately 400 feet wide upstream of the highway but narrows to approximately 100 feet downstream of the roadway. The Washington Suburban Sanitary Commission office, located behind a retaining wall on the northwest bank, is included within the 100-year floodplain. On either side of U.S. Route 29
crossing of Paint Branch, the 100-year floodplain is approximately 100 feet wide with hardwood vegetation.

Wetlands within the project corridor are associated with perennial and intermittent streams. Waters of the state are also present in the form of streams, ponds, and stormwater management facilities. Figure III-6 provides the locations of delineated wetlands and Waters of the United States within the project corridor. Table III-10 lists the location, type, and approximate acreage of the wetlands that were delineated within the project corridor.

## 3. Terrestrial Ecosystem

## a. Soils

The Chillum-Beltsville-Croom and Glenelg-Manor-Chester soil associations are the general soil associations of the U.S. Route 29 corridor. The Chillum-Beltsville-Croom soils are generally gently sloping, silty and gravelly soils which commonly have a dense or cemented layer in the subsoil or substratum. A majority of the soil is in forested areas and has a low potential for agricultural uses due to the strong acidity and low fertility characteristics. Runoff is high, causing considerable erosion. Glenelg-Manor-Chester soils are generally deep, well drained, strongly sloped, silty, micaceous soils. These soils are well suited for agricultural purposes including dairying, livestock, and cultivated and forage crops.

## b. Vegetation

Several vegetative cover types exist within the U.S. Route 29 corridor. These cover types include (1) Urban, (2) Early-succession Shrubland, (3) Hardwood Forest, and (4) Agricultural. Characteristics of these vegetation cover types are described in Table III-11.

The urban cover type is typically found in the residentially developed areas of the corridor. This includes much of the area between Fairland Road and Sligo Creek. There are also pockets of this cover type interspersed throughout the project area, generally near intersections.

Early-succession shrubland areas are located in the less developed portions of the corridor, mainly between Briggs Chaney Road and Greencastle Road. Large tracts of this vegetative type also exist in the U.S. Route 29 corridor between MD Route 198 and Dustin Road.

The forested areas within the corridor vary greatly in terms of maturity and species composition depending upon the stage of succession and/or human intervention. Generally, the forested areas of the corridor are not mature. Tree heights are typically less than 30 feet with diameters of 14 inches or less. There are individual exceptions scattered throughout the forested areas. The most mature forest in the corridor lies in the Rocky Gorge Reservoir watershed, where trees are greater than 45 feet tall and have diameters up to 24 inches. Most of the forested areas are located adjacent to streams. Small stands of hardwoods are interspersed throughout the project corridor, but larger tracts are located north of Fairland Road.

Table III-10
Wetlands and Waters of the State Within the Project Corridor

| Wetland Number' | socation | Cowardin Chassification System | Approxmate Area Within Froject. Cortidor' (acres) |
| :---: | :---: | :---: | :---: |
| 2 | South of Musgrove Road, east of U.S. 29 | PFO/SS1C | 0.2 |
| 3 | ICC - to the east and west of U.S. 29 | PSS1C | 0.1 |
| 4 | North of ICC, west of U.S. 29 | PEM1K | 0.1 |
| 5 | South of Greencastle Road | POWH | 0.04 |
| 6 | South of Greencastle Road, west of U.S. 29 | PFO1C | 0.1 |
| 7 | Both sides of U.S. 29, south of Blackburn Road | PFOIC | 0.4 |
| 8 | Both sides of U.S. 29, north of Blackbum Road | PEM/SS1A | 0.1 |
| 9 | New alignment between Burtonsville and Patuxent River | PSS/FO1C | $<0.1$ |
| 10 | New alignment between Burtonsville and Patuxent River | PFO1C | 0.1 |

PEM2C - Palustrine, Emergent, Nonpersistent, Seasonal
PFO/SS1C - Palustrine, Forested, Scrub/Shrub, Broad-Leaved Deciduous, Seasonal
PSS1C - Palustrine, Scrub/Shrub, Broad-Leaved Deciduous, Seasonal
PEM1K - Palustrine, Emergent, Persistent, Artificial (Water of the State)
POWH - Palustrine, Open Water, Permanent (Water of the State)
PFO1C - Palustrine, Forested, Broad-Leaved Deciduous, Seasonal
PEM/SS1A - Palustrine, Emergent, Persistent, Scrub/Shrub, Broad-Leaved Deciduous, Temporary
PSS/FO1C - Palustrine, Scrub/Shrub, Forested, Broad-Leaved Deciduous, Seasonal
Note: Each wetland and Waters of the United States is further described in a separate document entitled "Wetlands Delineation Report", prepared by Gannett Fleming, Inc., 3/93.

1 Wetlands are identified on Figure III-6.
2 Wetland limits extend beyond the project corridor boundary.

* Wetland \#1 was removed from Table III-10 in this FEIS as a result of Sligo Creek Parkway alternate being dropped from consideration.

Table III-11
Vegetation Cover Types


The Maryland DNR has no record of any plant located within the corridor on the State Rare or Federal Endangered Species lists. There is an historic record (1937) for the state-rare Walking Spleenwort (Asplenosorus ebenoides) on the "old highway bridge over Paint Branch" (Maryland DNR letter in Section VII). This project includes no proposed activities in the area of Paint Branch.

## c. Wildlife

Habitats within the corridor support a variety of wildlife. Though the study corridor is narrow and includes an existing heavily traveled highway, the habitats could be utilized for feeding, cover and travelways. It is expected that some birds and small mammals would utilize the habitats within the corridor on a constant basis while the larger, more mobile, mammals such as the raccoon, opossum and white-tailed deer may use study corridor habitats primarily as travelways.

According to the U.S. Fish and Wildlife Service, there are no federally listed or proposed endangered or threatened animal species known to exist in the area. Coordination with the Maryland DNR also revealed no rare wildlife species in the study area (see Section VII).

## 4. Farmland

A few small tracts of land utilized for crop production exist in the project area. These areas are located between Tech Road and Briggs Chaney Road, part of which is slated for development by the Seventh Day Adventist Church, and also between MD Route 198 and Dustin

Road. Prime farmland and soils of statewide importance for Montgomery County, found within the study area, are listed in Table III-12. Figure III-7 (located at the end of this section) shows the location of prime farmland, soils of statewide importance and productive agricultural land within the U.S. Route 29 corridor.

Table III-12
Prime Farmland Soils and Soils of Statewide Importance


Source: Montgomery County, Maryland Soil Survey and Soil Conservation Service.

In addition to cultivated parcels and pastures, hedgerows, edges and drainageways are considered part of the agricultural community. Herbaceous and woody species found in the abandoned field shrub type also may be found in these small areas within the agricultural type.

## D. AIR QUALITY

U.S. Route 29 is located between the modifying influences of the Chesapeake Bay and Atlantic Ocean to the east and the Appalachian Mountains to the west. The net effect is to produce a more uniform climate compared with other locations further inland at the same latitude.

Areas which are sensitive to air quality impacts include residences (or communities), schools, parks, hospitals, health care facilities, and retirement homes. A field survey of the project corridor identified 14 areas which would be sensitive to changes in the air quality. Each area was then subdivided into individual sites for the purpose of estimating air quality emissions. A total of forty-two air quality modeling sites were included in the analysis. A detailed air quality analysis has been performed to determine impacts of the proposed project which is described in further detail in Section IV.D. These air quality analyses can be found under separate covers entitled "Detailed Air Quality Supplemental Analysis at the Four Corners and Sligo Creek Parkway Signalized Intersections" and "The Air Quality Technical Report (1988)".

## E. NOISE

The following is a summary of the Noise Technical Analysis Report (August 1993) prepared in support of this FEIS.

Highway traffic noise is usually measured on the " $\mathrm{A}^{\text {" }}$ weighted decibel scale " dBA ," which is the scale that has a frequency range closest to that of a human ear. In order to give a sense of perspective, a quiet rural night would register about 25 dBA , a quiet suburban night would register about 60 dBA , and a very noisy urban daytime about 80 dBA . Under typical field conditions, noise level changes of 2-3 dBA can barely be detected, but a 5 dBA change in noise levels is noticeable. A 10 dBA increase is judged by most people as a doubling of sound loudness.

The Federal Highway Administration (FHWA) has established noise abatement criteria for various land uses (Table III-13). The noise levels in this analysis are expressed in terms of an $\mathrm{L}_{\mathrm{eq}}$ noise level which is the energy-averaged noise level for a given time period. All ambient and predicted noise levels in this report are $\mathrm{L}_{\mathrm{eq}}$ exterior noise levels unless otherwise noted.

Table III-13
FHWA Noise Abatement Criteria

| Activity Category. | 14, (b) | Description of Imetivy Category |
| :---: | :---: | :---: |
| A | $\begin{gathered} 57 \\ \text { (Exterior) } \end{gathered}$ | Lands on which serenity and quiet are of extraordinary value and serve an important public need, and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose. |
| B | 67 (Exterior) | Picnic areas, recreation areas, playgrounds, active sport areas, parks, residences, motels, hotels, schools, churches, libraries, and hospitals. |
| C | 72 (Exterior) | Developed lands, properties or activities not included in Categories A or B above. |
| D | - | Undeveloped lands. |
| E | $\begin{gathered} 52 \\ \text { (Interior) } \end{gathered}$ | Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals, and auditoriums. |

Source: 23 CFR, Part 772.

In a noise analysis, measurement of ambient noise levels is intended to establish the basis for impact analysis. The ambient noise levels are recorded to represent a generalized view of present noise levels. Variations with time of total traffic volume, truck traffic volumes, speed, etc. may cause fluctuations in ambient noises levels of several decibels. However, for the purposes of impact assessment, these fluctuations are usually not sufficient to affect the assessment.

Fourteen noise sensitive areas, designated $A$ through $N$, have been identified within the U.S. Route 29 corridor. The fourteen areas consist of residential and commercial/residential uses. Measurement and modeling sites selected within each sensitive area are described in Table III-14. Mapping of sensitive areas and measurement/modeling sites are contained within the impact discussion in Section IV. All of the areas identified in Table III-14 are Category B uses as defined in 23 CFR 772.

A noise monitoring program was conducted throughout the project area during the months of June, July, November and December 1987 and August 1993. Measurements were conducted for 20 -minute periods at each of the sites. Existing noise levels measured during this time ranged from 51 to 73 dBA . Additional details of this measurement procedure are provided in the Noise Analysis Report. It was determined that for all the noise sensitive areas, the most typical noise conditions occur during the non-rush hour period (9:00 a.m. - 4:00 p.m.). During this time, the highest noise levels are experienced for the greatest length of time.

Calibration of the STAMINA 2.0/OPTIMA noise prediction model was performed utilizing simultaneous traffic data collected at noise monitoring sites along U.S. Route 29. Traffic counts taken during the 20 -minute monitoring periods were adjusted to represent hourly traffic flows and were used as input into the computer model. The predicted $\mathrm{L}_{\mathrm{cq}}$ noise levels generated at monitoring sites as a result of this calibration exercise differed from their actual ambient noise levels by less than 3.0 dBA . The fluctuations in noise levels can be attributed to extraneous noise sources pertinent to the modeled site (i.e., low aircraft flyovers) as well as the site's specific location, topographical features, and natural and man-made components (i.e., buildings, ground cover, etc.).

Table III-14 summarizes the results of the measurement survey. Traffic volumes observed during most of the noise measurements were below LOS C capacity. To determine impact of the project, all predicted noise levels are modeled at LOS C to establish worst case conditions.

The dominant source of noise in the study area was traffic on U.S. Route 29. Two areas had traffic noise contributions from roadways other than U.S. Route 29. The first was in Fairway where traffic from I-495 was noticeable as a part of the overall background noise. The second was at the Inverleigh Apartments where traffic on Old Columbia Road contributed to noise levels at apartment units facing the roadway.

As Table III-14 indicates, noise levels range from 51 to 73 dBA . Fifteen sites approach or exceed the Noise Abatement Criterion (NAC) of 67 dBA .

Table III-14

## Ambient Noise Levels



* Included in Noise Measurement Survey conducted in August 1993.


## F. HAZARDOUS MATERIALS

Initial Site Assessments were performed in the corridor for properties that may be condemned by SHA for additional right-of-way. A total of seventy-seven (77) sites were assessed that included background and site history as well as site reconnaissance evaluations. Section IV.F. summarizes the activities undertaken for hazardous waste documentation based upon MD SHA guidance.

The U.S. Route 29 Phase I Environmental Assessment Report - Volumes 1-15 (9/93) are contained under separate cover, and can be obtained from MD SHA.




P3 RESIDENTIAL MULTI-FAMILY commercial


FIGURE III-2
Future Land Use U.S. Route 29 FEIS

10 t 2
SCALE: $1^{11}=2000$




## FIGURE IIL-3

Zonal Boundary Map
U.S. Route 29 FEIS

1 of 2
SCALE: $1^{1 "}=2000^{\prime}$




Figure III-4
Legend Study Area Communities

1 Seven Oaks - Evanswood
2 Sligo Park Hills
3 The Park Bradford
4 Manchester Gardens
5 Timberwood
6 Parkside Plaza
7 Sligo-Branview
8 North Quince Orchard Manor
9 Long Branch
10 Indian Springs
11 North Hills of Sligo
12 Woodside Forest
13 South Four Corners
14 Sligo Woods
15 Forest Nolls
16 Northwood - Four Corners
17 Kinsmen Farms
18 Woodmoor - Pinecrest
19 Franklin Knolls
20 Hillandale
21 Burnt Mills Hills
22 Northwest Branch Estates
23 Burnt Mills Manor
24 Burnt Mills Village
25 Dumont Oaks
26 Burnt Mills
27 Burnt Mills Estates and Gardens
28 Tiers of Silver Spring
29 Columbia Towers
30 Paint Branch Park
31 Stonehedge
32 Columbia Road
33 Quaint Acres
34 Springbrook
35 North White Oak
36 Rolling Acres
37 East Springbrook
38 Snowden's Mill
39 Calverton
40 Stockridge at Tanglewood
41 Stonecrest - Woodcrest

42 West Fairland
43 Briggs Chaney - Countryside
44 Avonshire
45 Perrywood
46 Greencastle Manor \#2
47 Greencastle Lake
48 Townes of Gloucester
49 Oakhurst
50 Columbia Road
51 Santini Road
52 Timber Hill



II-37

Figure III-5
Community Facilities and Services (1994)

O SCHOOLS

1. Acorn Hills Children Center
2. Forest Knolls E.S.
3. Northwood H.S.
4. Four Corners E.S.
5. Alexander School
6. St. Bernadette
7. Pine Crest E.S.
8. Eastern Intermediate
9. Highland View E.S.
10. Oakview E.S.
11. Springbrook H.S.
12. Burnt Mills E.S.
13. Cresthaven E.S.
14. Cannon Road E.S.
15. White Oak J.H.S.
16. Jackson Road E.S.
17. Fairland E.S. (Old)
18. Galway E.S.
19. Greencastle E.S.
20. Paint Branch H.S.
21. Benjamin Banneker J.H.S.
22. Burtonsville E.S.
23. Julia Brown Montessori School
24. Fairland Elementary School (New)
$\diamond$ SAFETY FACILITIES
25. Silver Spring Fire Station Co. 16
26. Hillandale Fire Co. 12
27. Burtonsville Fire Co. 15
28. Burtonsville Volunteer Fire Dept.

## $\triangle$ RECREATION

1. Argyle Recreation Center
2. YMCA
3. Northwood Park
4. Pinecrest Recreation Center
5. Northwest Branch Park
6. Forest Knoll Swim Club
7. Rocky Brook Park

MISCELLANEOUS

1. Sligo Park Golf Course
2. Silver Spring Boys Club
3. Forest Glen Senior Citizens Center
4. Fairland Library
5. Center for the Handicapped
6. Woodmoor Post Office
7. Colonial Villa Nursing Home
8. White Oak Library
9. U.S. Naval Surface Weapons Center
10. Center for the Handicapped
11. White Oak Shopping Center
12. University of MD Plant Research Farm
13. U.S. National Guard
14. Briggs Chaney Road Plaza
15. Gunpowder Road Golf Course
16. Union Cemetery
17. Burtonsville Post Office
18. Burtonsville Shopping Center
19. Burn Brae Country Club
20. Burtonsville Post Office
21. Woodmoor Shopping Center
22. Park-n-Ride
23. Manor Care
24. Sligo Community Building
25. Fairland Nursing Home
26. Burtonsville Crossing Shopping Center

- HEALTHCARE

1. Burtonsville Family Health Center
2. Musgrove Road Medical Park
3. Holy Cross Hospital (Proposed medical facility)

## RELIGIOUS FACILITIES

1. Church of Christ
2. Christ Congregational
3. Marvin Memorial United Methodist
4. Memorial United Methodist
5. Young Israel Shomrai Emunah

Figure III-5
Community Facilities and Services (1994)
(Continued)

## $\triangle$ RECREATION (Cont'd.)

8. Hillandale Recreation Area
9. Cannon Road Park
10. Paint Branch Park
11. Martin Luther King Park
12. Pilgrim Hill Recreation Center
13. Calverton Park
14. Galway Park
15. East Fairland Park
16. West Fairland Park
17. Tanglewood Park
18. Fairland Regional Park
19. Spencerville Park
20. Columbia Park
21. T. Howard Duckett Watershed
22. Sligo Creek Park
23. Dale Drive Recreation Center
24. Edgewood Local Park

## RELIGIOUS FACILITIES (Cont'd.)

6. St. Bernadettes
7. Silver Spring Church of Christ
8. Temple Israel
9. St. Stephen Luthern
10. Shaare Tefila Congregation
11. Southeast Hebrew Congregation
12. St. John the Baptist
13. Forcey Memorial Fundamental
14. St. Marks Episcopal
15. Roberts Memorial Free Methodist
16. Calverton Baptist
17. Epiphany Lutheran
18. Burtonsville Baptist
19. Burtonsville Liberty Grove United Methodist
20. Columbia Primitive Baptist
21. Burnt Mills Seventh Day Adventist
22. Covenant Orthodox Presbyterian
23. Burnt Mills Seventh Day Adventist Church


FIGURE III-6
100-Year Floodplains, Streams and Wetlands
U.S. Route 29 FEIS
$10 t 2$
scale



FIGURE IIL7
Farmlands
U.S. Route 29 FEIS

102
SCALE: $1^{1 "=2000}$


## IV. ENVIRONMENTAL CONSEQUENCES

## A. LAND USE, SOCIAL AND ECONOMIC

## 1. Consistency with Transportation Goals

Typically, transportation systems impact adjacent land uses depending on highway features such as serviceability, accessibility and safety. As a main connector between Washington and Baltimore, serving Silver Spring and Columbia, the capacity of U.S. Route 29 is critical to the vitality of adjacent communities.

The proposed U.S. Route 29 project is consistent with the transportation goals of the project area. The project will promote short-term and long-term operational improvements for the U.S. Route 29 corridor and provide a network of bicycle and pedestrian routes.

Traffic Flow (Eastern Montgomery Plan)

Traffic flow is hindered on existing U.S. Route 29 by numerous inefficient at-grade intersections. The No-Build Alternative would not remove any of these intersections or control access to interchanges. The No-Build Alternative is not consistent with transportation goals because this alternative does not relieve congestion or improve safety for motorists or pedestrians. The Selected Alternative would eliminate many existing transportation deficiencies. The Selected Alternative would eliminate intersection delays by providing improved traffic patterns and traffic flow.

## Network of Bicycle and Pedestrian Routes <br> (Eastern Montgomery Plan)

The implementation of a No-Build Alternative would have a detrimental effect on bicycle and pedestrian paths. By maintaining existing conditions with respect to pedestrian and bicycle crossings at signalized intersections, the crossings would become increasingly difficult to negotiate with increases in future year traffic. The Selected Alternative would provide uninterrupted bicycle and pedestrian crossings U.S. Route 29. Bicycle paths will be developed by Montgomery County, while sidewalks are included as part of the project improvements at Four Corners.

At Four Corners, the Selected Alternative would enhance the safe passage of pedestrians. Clearly designated sidewalks would be constructed. Pedestrian phases would be provided at all signalized intersections. Nine foot wide sidewalks would be provided along the outside frontage roadways.

Parking<br>(Eastern Montgomery Plan)

The 1982 Approved and Adopted Master Plan for Eastern Montgomery County recommends the construction of fringe parking facilities at strategic locations to encourage transit ridership and ridesharing, as well as maintain a balance between projected traffic and the design capacity of the proposed highway network.

Three lots along U.S. Route 29 are recommended at the following locations:

1. White Oak, since it is already a major activity center and is located on the intersection of two major transportation corridors, New Hampshire Avenue and Route 29 (has not been constructed).
2. Fairland Road and Route 29 because it is centrally located and would provide a convenient location for changing to transit or forming carpools (has not been constructed).
3. East side of Route 29, north of Spencerville Road (MD 198) and south of PEPCO Power line. This location is convenient to Howard County, Upper Prince George's County and other areas where motorists might use MD 198 or I-95 for access to Route 29 (has been constructed).

In addition, the County is using a church parking lot for a park-n-ride lot at Fairland Road and Old Columbia Road. There has also been park-n-rides developed at Gatesburg Manor and Briggs Chaney Road, and at Tech Road and Old Columbia Road.

## 2. Consistency with Land Use Goals

Every year Montgomery County adopts an Annual Growth Policy. It sets the levels of development approved for policy areas throughout the County. The County Council does this through means of an Adequate Public Facilities Ordinance (APFO), which promotes orderly growth by synchronizing development with the availability of public facilities needed to support that development. Currently, the Fairland/White Oak Policy Area is in a moratorium for development, as the infrastructure has not kept up with the growth. The Four Corners area, located in the Silver Spring/Takoma Park Policy Area, is not in moratorium. With a very high transit level of service because of extensive transit service coverage and frequency, the area could accommodate more development.

The ability or inability to meet previously discussed transportation goals, using either alternative, also would affect the ability to meet land use goals. These goals include:

- commercial development at White Oak, Burtonsville and Colesville; and,
- industrial development and employment at the Montgomery Industrial Park and at Burtonsville.

Since competition in the Baltimore/Washington region for development is intense, corridors with transportation facilities operating with adequate capacity would have a competitive advantage in attracting this development, particularly commercial and industrial development.

Operational Improvements for U.S. Route 29/University Boulevard (Four Corners Plan)

The No-Build Alternative would maintain existing traffic patterns and inefficient at-grade intersections. With the implementation of the No-Build Alternative traffic conditions would worsen due to increasing ADT's and the complexity of turning movements at the intersections.

## Kay Tract

To be consistent with planned land use objectives for the development of the Kay Tract, the No-Build Alternative is not acceptable. This alternative would not change the existing interchange configuration or capacity of the intersection. However, the Selected Alternative may encourage the development desired by providing added traffic capacity and flow. An important land use goal in this area is to support any land use or development of the Kay Tract.

During construction, traffic flow would be affected only slightly. The Maryland Department of Transportation would maintain the same number of lanes to allow U.S. Route 29 to function as well as possible. The MD DOT does not want traffic diverted into the neighborhoods. Access to certain areas would be interrupted during the construction period.

## Commercial Development at White Oak, Fairland, Burtonsville and Colesville (Eastern Montgomery Plan)

Commercial development at White Oak would be encouraged to expand if traffic flow is improved, at-grade intersections and signalization would be eliminated, and a new controlled access intersection at Stewart Lane would be constructed. These goals would not be accomplished by the No-Build Alternative because this alternative does not provide additional capacity on U.S. Route 29. The Selected Alternative would provide these benefits and allow the site to become more attractive to developers because of the additional capacity resulting from the proposed project.

From Burtonsville to the Howard County line, the commercial development potential increases north of MD Route 198. Current commercial development in the northwest quadrant is planned for future expansion. The northeast quadrant also is planned for commercial development. Because future conditions would result in traffic levels of service that are not acceptable, the No-Build Alternative would not accommodate the development potential of the area. The Selected Alternative also would improve access, traffic flow and safety to the area. Thus commercial development potential would be enhanced.

## Industrial Development at Montgomery Industrial Park and Burtonsville (Eastern Montgomery Plan)

The Silver Spring Industrial Park is not expected to grow much beyond existing development. The Montgomery and West Farm Industrial Parks are expected to continue to
develop. The No-Build Alternative does not address existing and future congestion problems. In contrast, the Selected Alternative would improve traffic flow conditions with intersection improvements. This alternative would be a contributing factor for the expansion potential of these industrial parks from a traffic standpoint.

North of West Farm Industrial Park, another industrial park is located at the intersection of U.S. Route 29 and existing MD Route 198. The No-Build Alternative would not facilitate traffic flow. The Selected Alternative would enhance traffic flow by reducing congestion.

In summary, the No-Build Alternative would be inconsistent with transportation and land use goals. Unlike the No-Build Alternative, the Selected Alternative would address identified transportation deficiencies, improve pedestrian safety, and increase development potential. The Selected Alternative is consistent with the desired land use goals and objectives.

## 3. Displacements

The No-Build Alternative would require no displacements or relocation of residential or business properties. Twenty-three (23) structures which includes 16 single-family residences, 5 businesses (at 4 locations) and 3 auxiliary buildings could be displaced by the Selected Alternative.

All State Highway Administration projects involving displacement activity must comply with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 USC 4601) as amended by Title IV of the Surface Transportation \& Uniform Relocation Assistance Act of 1987 (P.L. 100-17), the Annotated Code of Maryland entitled "Real Property Article" Section 12-112 and Subtitle 2, Sections 12-201 to 12-212. The Maryland Department of Transportation, State Highway Administration, Office of Real Estate administers the Transportation Relocation Assistance Program in the State of Maryland.

Title VI Statement -- It is the policy of the Maryland State Highway Administration (MD SHA) to ensure compliance with the provision of Title VI of the Civil Rights Act of 1964, and relate civil rights laws and regulations which prohibit discrimination on the grounds of race, color, sex, national origin, age, religion, physical or mental handicap in all MD SHA program projects funded in whole or in part by the Federal Highway Administration (FHWA). The MD SHA will not discriminate in highway planning, highway design, highway construction, and acquisition of right-of-way, or the provision of relocation advisory assistance. The policy has been incorporated into all levels of the highway planning process in order that proper consideration may be given to social, economic, and environmental effects of all highway projects. Alleged discriminatory actions should be addressed to the Equal Opportunity Section of the MD SHA for investigation.

A survey of potential relocatees indicates no minorities, elderly, or handicapped persons would be affected. Comparable, affordable replacement housing is expected to be available in the project area for persons displaced by the Selected Alternative.

## 4. Neighborhoods

Most residential areas have developed as subdivision units (communities) with access roads to U.S. Route 29. Very few residences abut or directly access U.S. Route 29 with individual driveways. Impacts to neighborhoods generated by the project would be limited to accessibility issues and changes in travel patterns. Travel patterns would be affected by reduced access points along U.S. Route 29. Between Lockwood Drive and MD Route 650 in the Burnt Mills Village, White Oak and Quaint Acres areas, the Selected Alternative would require vehicles to access through the MD Route 650 interchange.

The Selected Alternative would affect vehicles accessing homes along U.S. Route 29, MD Route 198 and Dustin Road. To access the area west of U.S. Route 29, vehicles from Burtonsville would access U.S. Route 29 at MD Route 198 and exit at Dustin Road. Homes to the east would be accessed by a service road, Amina Drive, east of the Dustin Road intersection.

Overall project effects on area neighborhoods would be minimal. The proposed improvements to U.S. Route 29 would not present any barriers to neighborhood interaction nor affect community cohesion. During construction, traffic flow would be affected. Access to certain areas would be temporarily interrupted.

## 5. Community Facilities and Services

## a. Public Transportation

## Public Transit

The No-Build Alternative will result in increased traffic congestion that would slow commuter and transit travel time since signalized intersections and turning movements would be maintained. Public transit trip times would be improved by the Selected Alternative because of reduced congestion at traffic signals and median crossovers.

## Bicycle and Pedestrian

The No-Build Alternative would maintain at-grade intersections, resulting in continued at-grade interfacing of pedestrian and bicyclists with increased vehicular traffic. The Selected Alternative would have beneficial effects on bicycle and pedestrian movements within the corridor by providing new sidewalks at Four Corners. Grade-separated interchanges with overpass sidewalks would provide safer, less-congested U.S. Route 29 crossings.

## b. Emergency Services

The No-Build Alternative would not affect existing emergency vehicle access throughout the corridor. Longer response times would result as congestion around at-grade intersections increases. Overall, the Selected Alternative would offer the fastest response times for emergency vehicles in the corridor. This alternative eliminates at-grade intersections and traffic signals on U.S. Route 29 north of MD 650.

Emergency response times to certain areas would be affected by reduced access points along U.S. Route 29. Between Lockwood Drive and MD Route 650 in the Burnt Mills Village, White Oak and Quaint Acres areas, the Selected Alternative would require emergency vehicles from Silver Spring Fire Station Co. 16 to access through the MD Route 650 interchange.

The Selected Alternative would increase the response time of emergency vehicles accessing homes along U.S. Route 29, MD Route 198 and Dustin Road. To access the area west of U.S. Route 29, emergency vehicles from Burtonsville Company 15 would access U.S. Route 29 at MD Route 198 and exit at Dustin Road. Homes to the east would be accessed by a service road, Amini Drive, east of the Dustin Road intersection.

## c. Health Care Facilities

The No-Build Alternative would have minimal impact on existing health care facilities. The U.S. Route 29 highway project would have no substantial impact on the Burtonsville Family Health Center, the Musgrove Road Medical Park, and the proposed Holy Cross Nursing Facility other than effects on travel time. All other facilities are located outside the study area.

## d. Educational Facilities

The No-Build Alternative would retain current conditions of signalized intersections, cross traffic, and left turn movements, thereby not improving safety and increasing the risk of accidents. School buses would continue to negotiate signalized intersections, and as traffic volume and congestion on U.S. Route 29 increases, safety would be reduced. The proposed project's effect on school bus service is a major concern of the Montgomery County Public Schools. Potential impacts of the project alternatives on school bus service focus on safety and bus route adjustments. There are currently nine (9) public schools in the project area having buses that access or cross U.S. Route 29. Springbrook High School, White Oak Intermediate School, Jackson Road Elementary, Paint Branch High School, Banneker Junior High School, Galway Elementary School, Greencastle Elementary, Fairland Elementary and Burtonsville Elementary.

The Selected Alternative would provide grade-separated interchanges and eliminate median crossovers on U.S. Route 29 north of MD 650. Although school bus routes would have to be adjusted, overall safety would be increased.

## e. Religious Facilities

Eleven (11) religious facilities adjacent to U.S. Route 29 may be affected by the proposed project: Christ Congregational Church, Knox Presbyterian Church, Marvin Memorial Methodist Church, Southeast Hebrew Congregation, Shaare Tefila Congregation, Burnt Mills Seventh Day Adventist Church, Forcey Memorial Fundamental Church, St. Mark's Episcopal Church, Roberts Memorial Free Methodist Church, Liberty Grove United Methodist Church, and Columbia Primitive Baptist Church. The No-Build Alternative would impact all the facilities by not improving the traffic conditions which exist at the intersections on U.S. Route 29. The only negative impacts associated with the Selected Alternative would be related to traffic and access patterns which are discussed below. The improvements will provide safer pedestrian access. Potential adverse effects to the Roberts Memorial Free Methodist Church and the

Columbia Primitive Baptist Church. These impacts are discussed briefly in the following paragraphs.

## Roberts Memorial Free Methodist Church

The Selected Alternative would adversely affect access at Roberts Memorial Free Methodist from U.S. Route 29 by eliminating access to Fairland Road. Access to Fairland Road from U.S. Route 29 northbound would be at Randolph Road or Musgrove Road and southbound would be at Briggs Chaney Road. The Selected Alternative would increase the safety of vehicles and pedestrians crossing U.S. Route 29 to the church.

## Columbia Primitive Baptist Church

The Selected Alternative would realign U.S. Route 29 to the east, thereby reducing traffic volumes on the bypassed U.S. Route 29 segment. Access would be adversely impacted due to the circuitous trip for parishioners traveling to and from the church from the south on U.S. Route 29.

## 6. Recreational Facilities

No impacts on area parks would occur with implementation of the Selected Alternative. The proposed minor widening of the Sligo Creek Parkway and U.S. Route 29 intersection is not within the Sligo Creek Park. The area involved serves only as a buffer between the park and nearby homes.

## 7. Economic Impacts

## a. Regional Impacts

The No-Build Alternative would not improve existing transportation conditions. An inefficient transportation system would have the potential to discourage industrial/ commercial growth in the corridor. Section III-6, Economic Characteristics, indicates that the U.S. Route 29 study area is expected to grow economically in the industrial, commercial and service sectors. The potential for an area to expand its economic activities is dependent on several factors including availability of vacant an/or underutilized land, sufficient labor supply, and adequate transportation system. Major capital highway improvements are seen as a catalyst to economic activity on a regional scale.

## b. Corridor Impacts

The greatest potential for new economic development south of MD Route 650 is the Kay Tract at Four Corners. Because the No-Build Alternative would not improve the existing intersection configuration or increase the capacity at the University Boulevard intersection, this alternative would not support the development potential of Kay Tract.

Several effects would be expected to impact the Four Corners business district. The No-Build Alternative would negatively impact the retail and service segments of the area's economy because this alternative does not alleviate peak hour congestion for short-term trips.

The Selected Alternative would improve the intersection and provide better access to businesses for the local community, but access into the Woodmoor Shopping Center would be more circuitous from southbound U.S. Route 29.

During the construction period, the Four Corners business district would experience temporary changes in traffic patterns resulting in more circuitous access to businesses adjacent to U.S. Route 29. Access to all businesses would be maintained during the entire construction period. Access to businesses after construction would be similar to before construction. For the local community, access to businesses would improve with reduced congestion.

## Businesses Affected

The No-Build Alternative would negatively impact the retail and service segments of the area's economy because this alternative does not address peak hour congestion for short-term trips.

Development potential does exist at two industrial parks: the Montgomery Industrial Park and the West Farm Industrial Park. Industrial land use would have further expansion opportunities to the east of current development and to the north in the West Farm Industrial Park. North of Blackbum Road in Burtonsville, commercial developments in the northwest and northeast of Montgomery Auto Park are expected to expand. Industrial development is expected to occur in the southeast quadrant. As mentioned in Section III-6, capital and labor supplies are adequate for expansion. The Selected Alternative would benefit retail businesses because these establishments would retain direct access and passby patronage although median closures would make access more circuitous. The White Oak retail area would be affected beneficially by the Stewart Lane improvements north of the New Hampshire area.

Five (5) businesses at 4 locations could be displaced by the selected improvements. They are as follows: the Steuart/Agip Gas Station at Four Corners; Gerald's Landscape Supplies at Randolph Road; Tolley Enterprises, Inc. and Big Landscapes, both located off Fairland Road at the same location, and Shemin Nursery along Sandy Spring Road (MD Route 198). A walkup Automated Teller Machine may also be displaced at Nations Bank along Old Columbia Road at Stewart Lane. Due to the built-up nature of the U.S. Route 29 corridor, relocating businesses in close proximity to their current location may be difficult. MD SHA is developing a Relocation Assistance Program in coordination with final design.

## Employment and Income

Highway improvements have the potential to raise commercial and industrial land values. Because the No-Build Alternative would do nothing to alleviate traffic congestion in the future, land values may decrease as the attractiveness for development decreases. The Selected Alternative would increase the desirability of the area for development by providing an efficient transportation system; thereby increasing employment and income possibilities.

## Taxes and Revenues

The highway improvements would have no major effect on the area's tax base. Because the proposed project consists of widening an existing roadway, acquisition of additional right-of-
way and resulting loss in taxable property would be minimal compared to the total tax assessment base. Effects on tax revenue would be relatively negligible. Positive effects would occur if the inducement of better transport conditions encourages businesses to locate in the corridor. Businesses, in general, support a proportionately higher share of the tax base than residences.

## 8. Visual Environment

The proposed project would produce visual changes within the project area but would not affect any sensitive or unique visual amenities. The proposed overpass at Stewart Lane will produce some visual impacts to residents in the area. Although there would be a 200 foot widening of the existing right-of-way for the project and a few ramps added at the Dustin Road intersection, the proposed improvement would not result in any substantial visual impact to the environment. The overall regional impact would not be substantial considering the highly developed nature of the corridor.

During construction of the proposed project, a temporary visual intrusion would be created by the presence of the construction equipment and activities. Construction activities would require the removal of vegetation adjacent to the roadway. The view of the highway during construction would change as traffic queues for construction activities.

At Four Corners, the Selected Alternative would provide opportunities to meet the goals for urban design elements investigated in the "Four Corners Streetscape Study": (1) provide pedestrian circulation that is safe, continuous, attractive, and practical for the needs of Four Corners. Provide sidewalks and pedestrian crossings; (2) provide vehicular circulation that is safe, continuous, and produces a balance between vehicular movements and pedestrian movements; (3) improve the visual image of Four Corners and provide a more suitable "front door" for the community through the planting of trees, landscaping, and the design of storefronts and signs.

## B. HISTORIC AND ARCHAEOLOGICAL RESOURCES

## 1. Historic Resources

There are five (5) sites identified as possibly eligible for the National Register of Historic Places in the U.S. Route 29 corridor. These sites are:

- Conley House (M 34/10)
- St. Marks Chapel (M 34/9)
- Marlow (Bushnell) House (M 34/8)
- Columbia Primitive Baptist Church (M 15/62)
- Polychrome House Historic District (M 32/5)

None of the five sites would be affected by the No-Build Alternative. The Conley House and the Columbia Primitive Baptist Church would not be affected by any of the proposed alternatives as they would not alter the characteristics which qualify the sites for the National Register.

The SHPO rendered a "No Adverse Effect" determination for the Carlow House in a letter dated September 2, 1988 and a "Conditional No Adverse Effect" determination for St. Marks Chapel dependent on the development of a landscape plan to reduce impacts to the site. (See letter in Section VII).

No property would be required from the Polychrome House Historic District, located west of U.S. Route 29. The SHPO has rendered a no effect determination for the Polychrome Houses because the undertaking would not alter the characteristics of the District which would qualify it for inclusion to the National Register (See SHA correspondence, 1/12/93 - Section VII).

The Advisory Council on Historic Preservation (ACHP) concurred with the Maryland SHPO that proposed roadway improvements to U.S. Route 29 would have no adverse effects upon significant historic properties (See ACHP correspondence, 12/9/93 -Section VII).

## 2. Archeological Resources

The No-Build Alternative would have no impact on archeological sites within the U.S. Route 29 study area. Relating to archeological resources, the U.S. Route 29 corridor south of MD 650 in Montgomery County was previously surveyed by Ballweber (1988). The SHPO concurred on August 28, 1989 that no additional archeological investigations were warranted for the project.

No archeological sites have been recorded in or near the current project area. Given the degree of previous disturbance from residential and commercial development, and road construction along the U.S. Route 29 corridor and the U.S. Route 29/I-495 interchange, it is unlikely that potentially significant prehistoric archeological resources would be affected by proposed construction. On February 11, 1993, the SHPO rendered a no effect determination for archeological resources (See SHA correspondence, 1/12/93 - Section VII).

## C. NATURAL RESOURCES

The following summarizes potential natural resources impacts of the proposed project. Detailed information on methodologies, analysis and conclusions is provided in the Natural Resources Technical Analysis report prepared in support of this FEIS.

## 1. Water Resources

The No-Build Alternative would produce no impacts on the study area's water resources including: surface water, groundwater, wetlands, floodplains and aquatic communities. Impacts resulting from implementation of the Selected Alternative are discussed below.
a. Surface Water

Sligo Creek, Northwest Branch, and Paint Branch are designated by the Maryland Department of Natural Resources (MD DNR) as wild and scenic rivers. Construction proposed for this project would not cause permanent impact to these rivers. During the construction
phase, strict erosion and sedimentation control measures would be practiced, as approved in the final Erosion and Sediment Control Plan.

The majority of the streams crossed by U.S. Route 29 would not be impacted by the Selected Alternative. The two major streams crossed --Paint Branch, and the Patuxent River-would not be affected. Impacts to the Little Paint Branch tributaries are summarized in Table IV-1.

Although the potential exists for temporary sediment loading of surface waters, proper erosion control measures can mitigate this impact successfully. Final design for the proposed improvements would include "Standard Erosion and Sediment Control Procedures" as specified by the MD SHA, as well as the MD DNR - Water Resources Administration's (WRA) standards and specifications. Full and rigorous implementation and enforcement of erosion and sediment control measures would be conducted. All final design plans would require review and approval by the WRA and the Department of Health and Mental Hygiene - Office of Environmental Programs (OEP).

A Waterway Construction Permit would be required during the final design phase for each of the affected crossings. In addition, no in-stream work would be permitted from March through May, inclusive, for Class IV waters (Patuxent River tributaries and Northwest Branch); and from March through June 15, inclusive, for Class I waters (all other area streams).

Three tributaries of Little Paint Branch would be affected by channel relocations (Table IV-1). Due to the complexity of the MD Route 198 interchange, exact locations of these channel relocation will be determined in final design. New stream channels would be constructed for each of the areas to be relocated. The stream length of the relocated sections would be maintained; no loss of stream length would occur. The new stream channels would approximate the impacted channels in physical characteristics. To the extent possible, existing slopes and grades would be maintained. Rocks and gravel would be placed randomly within the new channels to encourage rapid naturalization of the stream bed and development of a pool/riffle sequence. The banks of the new channels would be stabilized before diverting the flow of the stream from the old to the new channels.

Bottom-dwelling organisms and the aquatic habitat of the existing sections of relocated streams would be destroyed. However, the new sections of streams would be naturally reestablished with flora and fauna from the upstream and downstream reaches of each stream. The reestablishment of flora and fauna is predicted to occur rapidly because of the low gradient of the streams. MD SHA is committed to mitigating the effects of new culverts within the project area. Existing stream habitats may be enhanced, or the culverts would be constructed using depressed natural bottoms.

The predominant, continuing impact on the area tributaries would be the discharge of runoff from the roadway. The increase in impervious area resulting from construction of the Selected Alternative would produce a proportionate increase in the amount of runoff carrying vehicle-generated pollutants. Stormwater runoff would be managed under MD DNR's Stormwater Management Regulations and would be in compliance with COMAR 26.09.02 Stormwater Management Practices under these regulations including:

Table IV-1
Summary of Impacts from Selected Alternative Little Paint Branch Tributaries

| Tributary* | Type of Impact |
| :---: | :---: |
| (1) | Relocation of approximately 3000 feet, 3 new culverts |
| (2) | Culvert extension |
| (3) | No impact |
| (4) | Culvert extension |
| (5) | Culvert extension |
| (6) | Culvert extension |
| (7) | New culvert |
|  | Construction near stream |
| (8) | Culvert extension |
| (9) | Culvert extension, one new culvert |
|  | Bridge, relocation of 450 feet |
|  | Two culvert extensions, relocation of 550 feet |
| (10) | New culvert |
| (11) | New culvert |

* Refer to Section III.C. 1 (Figure III-6) for description and location of streams.
- on-site infiltration,
- flow attenuation by open vegetated swales and natural depressions,
- stormwater retention structures, and
- stormwater detention structures.

These measures could reduce pollutant loads and control runoff. The Tidewater Administration's Fisheries Division requires that the proposed work produce zero additional degradation from stormwater management operations (See correspondence in Section VII). MD SHA will also observe any requirements stipulated in the Anacostia Watershed Restoration Agreement for stormwater management, erosion control, and wetlands protection.

The proposed project would not involve the use of hazardous materials with the exception of fuel oils and lubricants. Accidental spills of these products could cause adverse impacts on area streams. However, the probability of spills is low, and the contractor would be required to maintain cleaning equipment on site in case of a spill event.

## b. Groundwater

The increase in impervious area resulting from construction of the Selected Alternative is not expected to impact the groundwater recharge potential because of the relatively small area impacted compared to the total impervious area of U.S. Route 29. The study area is predominantly located within the Piedmont Plateau, which has a large recharge area and therefore is not substantially affected by small increases in imperviousness caused by development. Impacts to groundwater quality due to runoff impurities from paved surfaces are not expected. The amount of runoff from new impervious surfaces would be minimal when compared with the total contribution of pollutants to the aquifer.

A small portion of the Patuxent Formation aquifer recharge area is located within the U.S. Route 29 corridor near Greencastle Road. Proposed activities, as a result of the Selected Alternative, at Greencastle Road would not substantially impact this aquifer recharge area. The appropriate stormwater management procedures, described in the previous section, would be applied to control runoff and reduce the potential discharge of pollutants.

Since the project area is served by a municipal water supply system, there would be no impact on private wells.

## 2. Floodplains and Wetlands

The 100 -year floodplains within the project corridor were identified and mapped using FEMA Flood Insurance Rate Maps (see Figure III-6). An evaluation of the preliminary design plans for the Selected Alternative indicates that an increase (greater than one foot) in the $100-$ year surface water elevation is not anticipated at any of the floodplain crossings. However, the exact effects of the new construction can only be determined using Hydrologic Engineering Center (HEC) models and detailed hydrologic and hydraulic (H\&H) evaluation. Final roadway designs will include all measures necessary to minimize the increases to 100 -year surface water elevations at the crossings. MD SHA will prepare a Joint Permit Application for the project. The detailed H\&H report will be included in the Application.

Seven wetlands in four areas would be impacted by the Selected Alternative. Existing vegetation and function information on impacted wetlands is given in Table IV-2. Each wetland is identified in Figure III-6. The Selected Alternative will impact less than one acre of wetlands.

MD SHA is committed to mitigating all temporary and permanent wetlands impacts. Mitigation will occur prior to, or concurrent with, highway construction. MD SHA will provide the MD DNR and U.S. Corps of Engineers (U.S.COE) with mitigation plans in the Joint Permit Application. Wetlands temporarily impacted by construction will include restoring the disturbed area to its preconstruction contours and revegetating, and/or avoiding those areas to the maximum extent possible. The replacement ratios and specific design components for wetlands permanently impacted by construction will be negotiated by MD SHA and MD DNR/U.S.COE in final design. At a minimum, the emergent, scrub-shrub, and forested wetlands will be mitigated at ratios of $1: 1,2: 1$, and $2: 1$, respectively. Higher ratios will be applied if the mitigation is conducted via restoration or enhancement of existing wetlands. All wetland mitigation efforts will be in accordance with COMAR 08.05.04 under the authority of Natural Resources Article, Section 88-1201-8-1211.

## 3. Terrestrial Resources

The No-Build Alternative would produce no impact on the terrestrial environment. Impacts resulting from construction of the Selected Alternative are discussed below.

## a. Vegetation

The construction of the Selected Alternative will result in a permanent impact to approximately 142.7 acres of vegetation. Table IV-3 provides the breakdown of permanent impacts to each of the four vegetation cover types discussed in Chapter III.

The hardwood forest vegetation cover type must be replaced at $1: 1$ ratio. MD SHA is committed to reforestation of approximately 56.3 acres in accordance with Natural Resources Article, Section 5-103 and COMAR 08.19. The forest stand delineation and forest conservation plan will be prepared by MD SHA after completion of final highway design and will be reviewed and approved by MD DNR - Forest, Park, and Wildlife Service. Deforestation will be minimized during final design, but some loss of forested acreage will be unavoidable.

There are no known threatened or endangered plant species impacted by the Selected Alternative.

## b. Wildlife

Wildlife would be displaced from habitats which currently provide adequate cover and food. These areas include the hardwood forest areas and early-succession shrubland. The project corridor does not provide known habitat for state or federal threatened, endangered, or rare wildlife species. However, individuals of non-threatened species of birds, reptiles, mammals, and amphibians will be displaced or lost during construction. The mitigation of the hardwood forest and wetlands will replace a portion of the lost habitat.

Table IV-2

## Wetland Impacts of Selected Alternative



Note: Wetlands are mapped on Figure III-6.

## Table IV-3

Impacts to Vegetation Cover Types - Selected Alternative


Note: All values are approximate.

## 4. Farmland Impacts

The No-Build Alternative would produce no impacts on prime farmland in the study area. Impacts resulting from implementation of the Selected Alternative, requiring the most right-ofway, would be worst-case and are discussed below.

In accordance with the Farmland Protection Policy Act of 1981, (FPPA) Farmland Conversion Impact Rating Forms (Form AD-1006) for the Selected Alternative were completed and processed in coordination with the Soil Conservation Service (See Appendix E).

Prime farmland committed to urban use and areas of prime farmland soils that are nonproductive agriculturally would be affected by the Selected Alternative. Because FPPA does not apply to land already in, or committed to, urban development or water storage, acquisition of this land would not be considered an impact on prime farmland (Refer to Forms AD-1006 in Appendix E).

## D. AIR QUALITY

1. Analysis of Air Quality Emissions Within the U.S. Route 29 Corridor

## a. Overview

Details of this analysis are contained in the "Detailed Air Quality Supplemental Analysis at the Four Corners and Sligo Creek Parkway Signalized Intersections" prepared in support of this FEIS. A detailed description of those alternatives previously considered for the U.S. Route 29 project is presented in the U.S. Route 29 Air Quality Technical Report (1988). The analyses contained in the Detailed Air Quality Supplemental Analysis are equivalent to Alternative A, the No-Build Alternative, and the Selected Alternative in each area of study.

The traffic data used for the Detailed Air Quality Supplemental Analysis included average daily traffic volumes (DTs), hourly AM and PM peak hour volumes, percent daily distributions (diurnal traffic curves), and peak and off-peak vehicle speeds. Traffic data were provided by the MD SHA for the U.S. Route 29 project. These data were compiled for each alternative and each year of study. Free flow travel speeds were developed by using the HCS (Highway Capacity Software) program. The data used throughout this study are consistent with previous studies conducted for the U.S. Route 29 project.

Mobile source emission factors were obtained for use in the carbon monoxide (CO) prediction models using the latest version of the (EPA) Mobile Source Emission Factors Model, MOBILES.

Because MOBILE5a cannot directly calculate idle emissions factor, MOBILE4.1 was used with the assumption of $100 \%$ Hot Starts. Emissions factors for idling and running vehicles are shown in Table IV-4. The data is presented for various speeds and both analysis years.

Major differences occur between air quality predictions contained in the 1988 analyses and those contained in this supplemental analysis. Because of recent changes in methodology, dispersion models, and statistical data reflected in mobile source emission factors, a direct comparison of data presented in the Air Quality Technical Report (1988), and information presented in this Detailed Air Quality Supplemental Analysis would not be valid. A summary of the effects) these differences may have on air quality impacts at nearby sensitive receptors, are:

- CALINE3 predicts CO concentrations for moving vehicles only, i.e., free flow traffic conditions on a limited access roadway. Therefore, the results of CALINE3 dispersion analyses are linearly proportional to, and dependent on, the traffic volume and the strength of the speed dependent running emission factor. CAL3QHC considers both running emissions, using the CALINE3 dispersion algorithms, and idle emissions from queued vehicles in a "stopped" mode. Results of CAL3QHC analyses will be identical to those of CALINE3 for free flow traffic conditions, but will vary substantially for signalized intersections where "stop-n-go" traffic conditions occur. Because of the interaction of moving and stopped vehicles in CAL3QHC, results are NOT linear, nor directly proportional to, the strength of the emission factors) and traffic volume.
- The basic differences described above also account for another major difference between results obtained with the two modeling methods. At a signalized intersection, CALINE3 cannot differentiate among modeled results as a function of the number of lanes and the resultant emission strength of idling vehicles. Depending upon the geometric relationship of the air quality sensitive receptor, the wind angle relative to idling vehicles, and the NUMBER of lanes of idling vehicles, the Selected Alternative may result in greater CO concentrations than the No-Build Alternative. This is particularly true if the increase in capacity for the Selected Alternative cannot be offset by the reduction in future year idle emission factors. For example, a No-Build Alternative may contain three (3) approach lanes to a traffic signal consisting of three (3) through lanes with shared left and right turning movements. Intersection improvements for the Selected Alternative condition may add a dedicated left turn and dedicated right turn lane to the three (3) through lanes. The resultant geometry for the Selected Alternative is five (5) lanes versus three (3) lanes for the No-Build scenario. Since idling vehicles may account for the majority of emissions at signalized intersections which are congested, the non-linear emission strength for a wind angle perpendicular to the queue lanes, to a receiver adjacent to the intersection, would be greater for the Selected Alternative (five lanes) than the No-Build Alternative (three lanes), thus resulting in Selected Alternative CO concentrations which may be greater than No-Build CO concentrations.


## Table IV-4

## U.S. Route 29 <br> Emission Factors <br> Montgomery County, MD


(i) MOBLLE5a emissions estimated using $100 \%$ hot/stabilized operating conditions.
(2) Idle emissions (grams per minute) calculated using EPA MOBILE4.1 with $100 \%$.

## Traffic Data, Emission Factors, and Speeds

The appropriate traffic data was utilized as supplied by the Traffic Forecasting Section, MD SHA. The composite and idle emission factors used in the analysis were calculated using the Environmental Protection Agency (EPA) MOBLLE 5a (Mobile Source Emissions Model) computer program. An ambient air temperature of $20^{\circ}$ Fahrenheit ( F ) was assumed in calculating the emission factors for the 1 hour analysis and the $35^{\circ} \mathrm{F}$ for the 8 hour analysis in order to approximate worst case results for each analysis case. Credit for a vehicle inspection maintenance ( $I / M$ ) emission control program was included in the emission factor calculations.

Average vehicle operating speeds used in calculating emission factors were based on the capacity of each roadway link from immediately adjacent links. Average operating speed ranged from 30 mph to 55 mph for the No-Build and the Build Alternatives depending upon the roadways under consideration.

## Meteorological Data

Worst case meteorological conditions of 1 meter/second ( $\mathrm{m} / \mathrm{s}$ ) for wind speed and atmospheric stability class $F$ were assumed for the 1 hour analysis and a combination of $1 \mathrm{~m} / \mathrm{s}$, stability class F and $2 \mathrm{~m} / \mathrm{s}$ and stability class D for 8 hour calculations. In addition, as stated above, a worst case temperature of $20^{\circ} \mathrm{F}$ and $35^{\circ} \mathrm{F}$ were assumed.

The wind directions utilized as part of the analysis were rotated to maximize CO concentrations at each receptor location. Wind direction varied for each receptor and were selected through a systematic scan of CO concentrations associated with different wind angles.

## b. Background Levels

In order to calculate the total concentration of $\mathbf{C O}$ which occurs at a particular receptor site during worst cast meteorological conditions, the background levels are considered in addition to the levels directly attributable to the facility under consideration.

The background levels were derived from the application of rollback methodology to onsite monitoring conducted by the Maryland Air Management Administration at their Rockpike Site in Montgomery County during the period of 1992.

## Background CO, PPM

|  | 1 Hour | 8 Hour |
| :--- | :--- | :--- |
| 1995 | 4.4 | 2.6 |
| 2015 | 4.4 | 2.6 |

Data obtained from Maryland Air Quality Data Report 1992.

## c. Sensitive Receptors

South of MD 650-Four Corners Area
The No-Build Alternative at the Four Corners intersection consists of U.S. Route 29 which is a six lane divided highway and University Boulevard. University Boulevard is bifurcated with 3 lanes eastbound and 3 lanes westbound approximately 250 feet north of the eastbound lanes. There are traffic signals at U.S. Route 29 and University Boulevard eastbound and University Boulevard westbound. The Four Corners and U.S. Route 29 intersection is currently operating at a Level of Service (LOS) F with extensive congestion during the AM and PM peak traffic hours. It is important to note that the Selected Alternate for the Four Corners intersection is operationally constrained from achieving better than a LOS F by the 2015 design year of analysis. In other words, the intersection is failing now, and will continue to fail in the future, with or without the Transportation System Management (TSM) improvements. The only differentiating factor among the alternatives analyzed is the degree of LOS F failure and congestion. The Selected Alternate, which would provide substantially improved LOS, was rejected by the public. (See the 1988 Air Quality Technical Report for details of these and other alternatives studied for the U.S. Route 29 project.)

## North of MD 650

A Supplemental Air Quality Analysis was performed and describes the receptor sites north of MD 650. Site selection of sensitive receptors was made on the basis of proximity to the roadway, type of adjacent landuse, and changes in traffic patterns on the roadway network. Thirty-six (36) receptor sites were chosen for this analysis consisting of 20 residents, 3 schools, a nursing home, and 10 office/commercial sites. The receptor site locations were verified during study area visits by the analysis team. The following is a list of air sensitive receptors and where each is located.

AQ-1: $\quad 4200$ Dustin Road
Grey frame and brick residence (Windy Acres)
AQ-2: 4021 Dustin Road
Grey/Green frame ranch residence
AQ-3: 3801 Sandy Spring Road (MD 198)
Brick Store
Zimmerman Home Center
AQ-4: Burtonsville Office Park
U.S. 29/MD 198

2-story brick building
AQ-5: 3929 Sandy Spring Road (MD 198)
White frame residence
AQ-6: 4058 Columbia Pike (U.S. 29)1-story brick building
Childway Daycare CenterAQ-7: 15017 Blackburn Road1-story frame residence
AQ-8: $\quad 15000$ Blackburn Road
1-1/2 story brick building
AQ-9: 2601 Greybill Road2-story white frame residence
AQ-10: 15201 Blackbum Road1-1/3 story brick residence
AQ-11: 3420 Greencastle Road
Brick ranch residence
AQ-12: 3504 Greencastle Road
1-1/2 story brick residence
AQ-13: 3504 Turbridge Drive
2-story tan frame residence
AQ-14: 3060 Shepperton TerraceGrey end of group townhouse
AQ-15: 2922 Briggs Chaney Road1-1/2 story brick residence
AQ-16 NE comer of U.S. 20/Briggs Chaney Road
MD National Bank
Wood Building
AQ-17: SE comer of U.S. 20/Briggs Chaney RoadSport Chevrolet showroom
AQ-18: NW corner of U.S. 29/Fairland Road
2-story white frame residence
AQ-19: NE comer of Fairland Road/Old Columbia Pike
Highland View Elementary School
AQ-20: 2700 Fairland Road
2-story frame
AQ-21 13201 Copland CourtEnd of group townhouse
AQ-22: 13304 Old Columbia Pike$1-1 / 2$ story white frame residence
AQ-23: 13150 Old Columbia Pike
2-story white frame residence
AQ-24: 13000 Old Columbia PikeTan split level residence
AQ-25: 2415 Musgrove RoadHoly Cross Medical Center3-story medical building
AQ-26: 2501 Musgrove RoadManor Care Nursing Home1-story brick building
AQ-27: 222 East Randolph RoadAmoco Station
AQ-28: 12520 Prosperity Drive3-story brick office building
AQ-29: 12221 Cherry Hill Road
$1-1 / 2$ story $\tan$ frame residence
AQ-30: 12200 Tech Road
3-story office building
AQ-31: 12345 Old Columbia Pike
1-story healthcare building
AQ-32: 12400 Old Columbia Pike
2-story tan frame residence
AQ-33: 2031 Featherwood Street
End of group townhouse
AQ-34: 1300 Milestone DriveMontessori School2-story stone/brick building
AQ-35: 11499 Columbia Pike (U.S. 29)
Nations Bank
2-story office building
AQ-36: 11501 Columbia Pike (U.S. 29)
Wall Street Journal
1 -story office building

## d. Summary of Results

## South of MD 650

A summary of the CO concentrations for the Four Corner Intersection is shown in Table IV-5. The concentrations remain essentially unchanged between the No-Build and Selected Alternative. While the concentrations at some receptors decrease, most locations increase slightly from No-Build to Selected Alternative conditions. However, the concentrations at all receptors for both locations are below the S/NAAQS for the one-hour and eight-hour analyses. The slight increase for the Selected Alternative condition occurs because constructing additional lanes will move traffic closer to some receptors.

North of MD 650
The results of the calculations of CO concentrations at each of the sensitive receptor sites for the No-Build and Build Alternatives for 1995 and 2015 are shown on Tables IV-6 and IV-7, respectively. A comparison of the values in Tables IV-6 and IV-7 with the S/NAAQS shows that no violations will occur for the No-Build or Build Alternatives in the 1995 or 2015 for the 1 hour or 8 hour concentrations of CO .

## e. Conclusions

The air quality analysis indicates that carbon monoxide impacts resulting from the implementation of the No-Build or Selected Alternative along the entire length of the proposed U.S. Route 29 corridor intersection would not result in a violation of the 1 -hour or 8 -hour S/NAAQS of 35 ppm and 9 ppm , respectively.

Relative comparisons of the impacts for the No-Build versus Selected Alternative at the intersection analyzed indicates that implementation of the proposed alternatives would result in a slight increase in CO concentrations at most receptor locations analyzed. These increases would be attributable to the addition of left turn and through lanes which increase the roadway width and idle emissions near the intersection.

## f. Conformity With Regional Air Quality Planning

The U.S. Route 29 project is located in Montgomery County which is an air quality nonattainment area for CO and ozone and has transportation control measures in the State Implementation Plan (SIP). The project conforms with the SIP, as it originates from the conforming federal Transportation Improvement Program (TIP).

## g. Construction Impacts

The construction phase of the proposed project has the potential to impact the local ambient air quality by generating fugitive dust through activities such as demolition and materials handling. The State Highway Administration has addressed this possibility by establishing "Specifics for Construction and Materials" which specifies procedures to be followed by contractors involved in site work.

Table IV-5
U.S. Route 29

Hot Stabilized CO Concentration Estimates From CAL3QHC (PPM) Four Corners Area

| Receptor/Scenario: | 1995 No-Build |  | 1995 Selected Alternative |  | 2015 No-Build |  | 2015 Selected Alternative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1-Hour. | 8-Hour: | 1 Hour | 8-Hour | 1-Hour | 8 Hour | 1-Hour. | 8.Hour |
| 4C-1: C-1 (AQTBR) | 15.7 | 6.4 | 15.8 | 5.9 | 13.2 | 5.6 | 13.6 | 5.1 |
| 4C-2: Playground | 12.5 | 5.5 | 17.5 | 8.1 | 10.7 | 4.5 | 13.7 | 5.9 |
| 4C-3: Church - 1 (MMUMC1) | 12.1 | 4.6 | 12.6 | 5.4 | 10.0 | 4.0 | 10.9 | 4.4 |
| 4C-4: Church - 2 (MMUMC2) | 14.6 | 5.9 | 15.9 | 6.0 | 12.6 | 5.0 | 13.5 | 5.1 |
| 4C-5: Plaza | 14.0 | 5.1 | 15.5 | 5.0 | 11.7 | 4.2 | 12.7 | 4.2 |
| 4C-6: Hardees | 14.6 | 5.6 | 13.3 | 5.8 | 10.9 | 4.7 | 10.7 | 4.7 |

NOTES: 1-hour average CO concentrations include a 4.4 ppm background concentration. 8 -hour average concentrations include a 2.6 ppm background concentration. The S/NAAQS for the 1 -hour average is 35.0 ppm . The S/NAAQS for the 8 -hour average is 9.0 ppm .

## Table IV-6

U.S. Route 29 Total CO Concentrations (1995)*


Table IV-6
U.S. Route 29 Total CO Concentrations (1995)* (Continued)


* Includes background concentrations

State/National Ambient Air Quality Standards:
1-hour: 35 PPM
8-hour: 9 PPM

Table IV-7
U.S. Route 29 Total CO Concentrations (2015)*

| Receptor | 2015 No-Build |  |  | 2015 Build |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1-hour AM | 1-hour PM | 8-hour | 1-hour AM, | 1-hour PM | 8 hourr |
| AQ-1 | 6.2 | 6.1 | 3.1 | 5.1 | 5.1 | 2.9 |
| AQ-2 | 8.1 | 8.4 | 3.7 | 5.3 | 5.3 | 2.9 |
| AQ-3 | 8.5 | 8.7 | 3.9 | 6.0 | 6.1 | 3.3 |
| AQ-4 | 7.5 | 7.7 | 3.6 | 5.9 | 6.1 | 3.3 |
| AQ-5 | 7.8 | 7.7 | 3.8 | 6.3 | 6.7 | 3.6 |
| AQ-6 | 7.6 | 8.0 | 3.7 | 5.8 | 5.7 | 3.2 |
| AQ-7 | 8.0 | 10.3 | 3.4 | 5.5 | 67.2 | 3.4 |
| AQ-8 | 6.6 | 7.4 | 3.1 | 5.2 | 5.4 | 3.0 |
| AQ-9 | 9.0 | 11.0 | 3.5 | 5.9 | 6.5 | 3.5 |
| AQ-10 | 6.5 | 7.6 | 3.0 | 5.2 | 5.3 | 3.0 |
| AQ-11 | 7.2 | 7.4 | 3.5 | 5.4 | 5.4 | 3.0 |
| AQ-12 | 8.1 | 8.2 | 3.9 | 5.7 | 5.9 | 3.2 |
| AQ-13 | 7.7 | 8.3 | 3.7 | 5.4 | 5.6 | 3.1 |
| AQ-14 | 8.3 | 8.2 | 4.1 | 6.1 | 6.4 | 3.6 |
| AQ-15 | 8.1 | 8.1 | 4.0 | 6.3 | 6.6 | 3.8 |
| AQ-16 | 8.1 | 8.6 | 4.1 | 6.3 | 7.1 | 3.9 |
| AQ-17 | 7.6 | 8.2 | 3.9 | 6.1 | 6.4 | 3.5 |
| AQ-18 | 7.1 | 7.0 | 3.3 | 5.3 | 5.3 | 2.8 |
| AQ-19 | 6.7 | 6.8 | 3.4 | 5.2 | 5.3 | 2.8 |
| AQ-20 | 9.6 | 11.0 | 4.3 | 6.2 | 6.7 | 3.4 |
| AQ-21 | 7.1 | 7.3 | 3.4 | 5.4 | 5.6 | 2.9 |
| AQ-22 | 5.8 | 5.8 | 3.0 | 5.5 | 5.3 | 2.9 |
| AQ-23 | 5.8 | 5.9 | 2.9 | 5.5 | 5.3 | 2.9 |
| AQ-24 | 5.9 | 5.9 | 3.0 | 6.1 | 5.7 | 3.1 |
| AQ-25 | 8.7 | 8.6 | 3.7 | 6.6 | 6.2 | 3.3 |

Table IV -7
U.S. Route 29 Total CO Concentrations*
(Continued)


* Includes background concentrations

State/National Ambient Air Quality Standards:
1-hour: 35 PPM
8-hour: 9 PPM
The Maryland Air Management Administration was consulted to determine the adequacy of the "Specifications" in terms of satisfying the requirements of the "Regulations Governing the Control of Air Pollution in the State of Maryland". The Maryland Air Management Administration found the specifications to be consistent with the requirements of these regulations. Therefore, during the construction period, all appropriate measures (Code of Maryland Regulations $10 \cdot 18.06 .03 \mathrm{D}$ ) would be incorporated to minimize the impact of the proposed transportation improvements on the air quality of the area.

## h. Agency Coordination

Copies of the U.S. 29 Supplemental Air Quality Analysis have been circulated to the U.S. Environmental Protection Agency and the Maryland Air Management Administration.

## E. NOISE IMPACTS

## South of MD 650

## Abatement Criteria and Land Use Relationships

This noise analysis was completed in accordance with the FHWA regulations 23 CFR, Part 772, "Procedures for Abatement of Highway Traffic Noise and Construction Noise." (Noise abatement criteria are shown on Table III-13). The factors that were considered in identifying noise impacts were:

- Identification of existing land use,
- Existing noise levels,
- Prediction of future design year noise levels, and
- Potential traffic increases.

The noise impacts of the project were based upon the relationship of the projected noise levels to the FHWA Noise Abatement Criteria and to the ambient noise levels. Noise impacts occur when the FHWA Noise Abatement Criteria (Table III-13) are approached or exceeded or when the predicted traffic noise levels substantially exceed the existing noise levels. MD SHA uses a 10 DBA increase over ambient levels to define a substantial increase. Noise abatement measures or mitigation will be evaluated when a noise impact is identified.

Figures IV-1 through IV-5 show the location of noise modeling sites in Sensitive Areas south of MD Route 650. Table IV-8 presents the results of the noise impact and mitigation analysis for south of MD 650. Location of Noise Sensitive Areas (NSA) are shown on Figure IV-6 in the north of MD Route 650 section.

Because the No-Build Alternative would not result in an increase in capacity, or involve lane additions to U.S. Route 29, the Alternative would not qualify for mitigation analyses. The Selected Alternative would qualify for consideration of mitigation measures. Individual communities or receptors in all of the identified Noise Sensitive Areas would be impacted in excess of the Noise Abatement Criteria (NAC) with the implementation of the Selected Alternative.





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Table IV-8

## Summary of Impact and Mitigation

## Noise Sensitive Areas

## South of MD Route 650

|  |  |  | No-Buid Alternative Nimber of Receptors |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Noise Ierel | Impact | Mitigition |  |  | Noisel Leral | $\underline{\mathrm{m}} \mathrm{p} \sim \mathrm{cl}$. | Misientiong |  |  |
| NSA | Community ${ }^{\text {al }}$ | Existing Noise Leve | Future 2015 Noise Leyel Leq, abs | Total Impacts |  | $\begin{aligned} & 4 \\ & 51 \\ & 51 \end{aligned}$ | ttt <br> Total | Future 2015 Noise Level Leq, dBA. | Total Impacts* |  | 㦰 | tr <br> Total |
| B | Fairway | 71 | 71 | 8 | 8 | 0 | 8 | 74 | 8 | 8 | 0 | 8 |
| C | Marvin Memorial Church | 61-72 | 72 | 5 | 5 | 0 | 5 | 75 | 5 | 5 | 0 | 5 |
| D | Pinecrest <br> Woodmoore <br> Northwood Park <br> Kinsman Farms | $\begin{aligned} & 67-70 \\ & 61-70 \\ & 68-73 \\ & 58-64 \end{aligned}$ | $\begin{aligned} & 61-70 \\ & 61-70 \\ & 68-73 \\ & 58-64 \end{aligned}$ | $\begin{gathered} 8 \\ 3 \\ 26 \\ 0 \end{gathered}$ | $\begin{gathered} 7 \\ 1 \\ 26 \\ 0 \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} 7 \\ 1 \\ 26 \\ 0 \end{gathered}$ | $\begin{aligned} & 71-74 \\ & 64-74 \\ & 71-77 \\ & 61-67 \end{aligned}$ | $\begin{aligned} & 17 \\ & 36 \\ & 26 \\ & 20 \end{aligned}$ | $\begin{gathered} 7 \\ 16 \\ 26 \\ 10 \\ \hline \end{gathered}$ | $\begin{aligned} & 5 \\ & 8 \\ & 0 \\ & 5 \end{aligned}$ | $\begin{aligned} & 12 \\ & 24 \\ & 26 \\ & 15 \\ & \hline \end{aligned}$ |
| E | Burnt Mills Hills Burnt Mills Village | $\begin{aligned} & 70-72 \\ & 64-72 \end{aligned}$ | $\begin{aligned} & 70-72 \\ & 64-72 \end{aligned}$ | $\begin{aligned} & 7 \\ & 6 \end{aligned}$ | $\begin{aligned} & 6 \\ & 6 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 6 \\ & 6 \end{aligned}$ | $\begin{aligned} & 73-75 \\ & 68-75 \end{aligned}$ | $\begin{gathered} 18 \\ 6 \end{gathered}$ | $\begin{gathered} 11 \\ 6 \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} 11 \\ 6 \end{gathered}$ |
| F | Burnt Mills Townhouses Dumont Oaks Tartan Ridge Townhouses Point Apts. | $\begin{gathered} 65-67 \\ 54-63 \\ 54-63 \\ 62 \end{gathered}$ | $\begin{gathered} 65-67 \\ 54-63 \\ 54-63 \\ 62 \end{gathered}$ | $\begin{aligned} & 1 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $68-70$ $\begin{aligned} & 58-66 \\ & 57-66 \end{aligned}$ $65$ | $\begin{aligned} & 6 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 6 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $0$ <br> 0 $0$ | $\begin{aligned} & 6 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |
|  | TOTAL |  |  | 64 | 60 | 0 | 60 |  | 142 | 95 | 18 | 113 |

* Total impacts - the total number of impacts within a noise sensitive area.
$\dagger \quad$ The number of critical receptors receiving a 7-10 dBA reduction of noise levels.
$\dagger$ The number of receptors receiving 5-6 dBA reduction of noise levels.
$\dagger \dagger \dagger$ The total number of receptors receiving a minimum of 5 dBA reduction of noise levels
(i) Includes residences on the east and west side of U.S. Route 29 and the Christ Congregational Church.
(2) Impact and mitigation data for the Selected Alternative are presented for the most effective concept (option) for noise control for the specific Noise Sensitive Area. In most cases, this would be a total control of access concept, devoid of any access for local roadways through the barrier.



The effectiveness of any of the conceptual barrier schemes would increase for the Selected Alternative relative to the No-Build Alternative. With the deletion of access openings to local roadways, more uniform and effective abatement of first-row critical receptors could be accomplished. Table IV-8 presents the number of impacted receptors that would benefit from mitigation measures in each NSA for the Selected Alternative. A total of 113 receptors would benefit from mitigation measures evaluated for the Selected Alternative.

The factors considered when determining whether mitigation should be considered and whether the mitigation is reasonable and feasible are:

1. Whether Federal Highway Administration Noise Abatement Criteria are approached or exceeded - 67 dBA for residential areas;
2. Whether a substantial ( 10 dBA or more) increase over ambient levels would occur;
3. Whether a feasible method is available to reduce the noise;
4. Whether the noise mitigation is cost effective for those receptors that are impacted - approximately $\$ 40,000$ per residence; and
5. Whether the mitigation is acceptable to affected property owners.

In addition to noise walls, other abatement measures were considered. These include:
a. Traffic Management Measures (e.g., traffic control devices and signing for prohibition of certain vehicles (heavy trucks), time use restrictions for certain types of vehicles, modified speed limits, and exclusion lane designations).
b. Alterations of Horizontal and Vertical Alignment. This alternative would not be reasonable because the project consists of widening an existing facility within the median.
c. Acquisition of Real Property or Property Rights to Establish Buffer Zones or install Earth Berms. Existing residential development immediately adjacent to the roadway makes it infeasible to acquire sufficient amounts of property for buffer areas without significant relocations and community disruption.
d. Noise insulation of public buildings or non-profit structures. If interior noise impacts are identified, detailed analysis of abatement measures will be conducted during final design of the U.S. Route 29 transportation improvement.

Table IV-9 presents a summary of the barrier dimensions, locations, benefits, and associated costs for mitigation of noise impacts studied in each NSA.

Table IV-9

## Abatement Summary

## Noise Sensitive Areas

U.S. Route 29, Montgomery County, MD

|  |  |  | Selected Alternative Noise Levels Range (Leq) |  |  |  | Barrier |  |  | Cost Per Residence ( $8 \times 1000$ ) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NSA. | Description | " of Homes w/Gremer than S dBA Rediction: Crente. Thinh 67 dB . | Ambient ${ }^{(1)}$ | No-Build (Design Year) | Builld (Design Year) | Build wil Barrier (Design Year) | Length (A.) | Heght (fi) | Cost ${ }^{\text {n }}$ <br> ( mmi ) |  |  |
| B | Fairway | 8 | 69 | 71 | 74 | 60-64 | 980 | 11 | . 175 | 21 | Mitigation measures evaluated but not feasible due to restriction of access to local residents. |
| C | Marvin Memorial Church | 5 | 71 | 72 | 75 | - | - | - | - | - | Architectural modifications will be considered during final design. |
| D | Pinecrest | 12 | 70 | 67.71 | 71-74 | 61-63 | 890 | 11 | . 162 | 13.5 | Mitigation measures evaluated but not feasible due to restriction of access |
|  | Woodmoor | 24 | 69 | 61-70 | 64-74 | 57-63 | 2260 | 16-21 | . 714 | 30 | Mitigation measures evaluated but not feasible due to restriction of access to local residents. |
|  | Northwood Park | 26 | 73 | 68-73 | 71-77 | 61-65 | 1150 | 11-16 | . 299 | 11.5 | Mitigation measures evaluated but not feasible due to restriction of access to local residents. |
|  | Kinsman Farms | 15 | 68 | 58-64 | 61-67 | 57-65 | 1110 | 21 | . 383 | 25.5 | Detailed Studies of noise mitigation measures recommended during final design. |

Table IV-9

## Abatement Summary

Noise Sensitive Areas
U.S. Route 29, Montgomery County, MD
(Continued)

|  |  |  |  | Selected A ise Levels. | ernative ange (Le |  |  | Barriers |  | Cost Per Residence ( $\&: 1000$ ) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NSA | Description | is Homer whicete: thins aBA. Reductons: Gretier Than 67 dBA. | Ambienta? | No-Baila OLetign Year) | Bulld Derign Year) | Build wi Barrier (Design Year) | length (II.) | Height (II) | Coster <br> (s mil) |  |  |
| E | Burnt Mills Hills | $11$ | 68 | $70-72$ | $73-75$ | 63-64 | 1246 | 11-16 | . 180 | 16.4 | Detailed studies of noise mitigation measures recommended during final design. |
|  | Bumt Mills Village | 6 | 65 | 64-72 | 68-75 | 59-64 | 1520 | 11-16 | . 296 | 49.5 | Mitigation measures evaluated but not feasible due to restriction of access to local residents. |
| F | Burnt Mills Townhouses <br> Dumont Oaks <br> Tartan Ridge Townhouses Points Apts. | $\begin{aligned} & 6 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 65 \\ & 56 \\ & 57 \\ & 65 \end{aligned}$ | $\begin{gathered} 65-67 \\ 54-63 \\ 54-63 \\ 62 \end{gathered}$ | $\begin{gathered} 68-70 \\ 58-66 \\ 57-66 \\ 65 \end{gathered}$ | 58-60 | 1300 - - | 16 | .345 - - | 57.5 - - | Mitigation measures evaluated but not reasonable because benefits do not justify cost. |

(1) Representative "worst case" measurement of designated area.
(2) Based on $\$ 16.50 / \mathrm{sf}$

## Noise Sensitive Area A: North Hills of Sligo and Christ Congregational Church (CCC)

Noise Sensitive Area A was omitted from this FEIS due to the selected alternate for the Sligo Creek Parkway being dropped from consideration. In light of uncertainties regarding both the development levels in the Silver Spring Central Business District and the potential relocation of the Blair High School to the Sligo Creek Golf Course, MD SHA has delayed indefinitely any decision on the Sligo Creek Parkway intersection and proceed with obtaining Location and Design Approvals for improvements north of the Beltway only. This will allow MD SHA to work with Montgomery County in determining the appropriate improvement for the Sligo Creek Parkway intersection and other intersections between the Capital Beltway and downtown Silver Spring.

## Noise Sensitive Area B: Fairway (all Concepts)

Projected noise levels of 74 dBA exceed the Noise Abatement Criteria of 67 dBA . A conceptual noise barrier to reduce noise levels in Fairway would be approximately 11 feet in height and approximately 980 feet in length. The barrier would provide a 10-14 dBA reduction of noise levels for receptor locations in NSA B (Figure IV-1). The barrier would be located between stations $105+80$ and $114+40$ with required access provided at Lanark Way. Implementation of abatement would require the restriction of individual access to residential units along U.S. Route 29 and therefore, would not be feasible. Total cost would be approximately $\$ 175,389$ or $\$ 20,700 /$ residence for 8 impacted receptors benefiting.

Based on a review of all reasonableness and feasibility criteria, mitigation measures evaluated for this area would not be considered reasonable and feasible because of safety and access criteria, and a substantial number of relocations and community disruption would occur.

## Noise Sensitive Area C: Marvin Memorial Church

Because of the orientation of the church building with respect to U.S. Route 29 and MD Route 193, and the need to retain access to church facilities, the use of a noise wall to mitigate traffic noise impact was not evaluated.

Predicted worst-case interior noise levels, assuming windows closed and air conditioning, would be approximately 54 dBA which exceeds the FHWA NAC of 52 dBA . The use of double-pane insulated glass at window openings would provide an effective means to mitigate interior noise levels within the day care facilities at the church building. Future abated interior noise levels for the Selected Alternative (Figure IV-2) would be approximately 39 dBA . This would represent a 36 dBA reduction of noise levels from U.S. Route 29 and MD Route 193 due to increased transmission loss through the building structure. It is therefore recommended that a detailed study of interior noise levels at the church building be conducted during final design of the U.S. Route 29 improvements.

## Noise Sensitive Area D: Pinecrest, Woodmoor, Northwood Park, Kinsman Farms

Approximately eight first-row residences face U.S. Route 29 in the community of Pinecrest. Abatement would be effective for concepts which would deny access to Circle Drive. A barrier approximately 890 feet in length and 11 feet high would provide a $10-12 \mathrm{dBA}$
reduction of noise levels for receptor locations in Pinecrest (Figure IV-3). The barrier would be located between stations 125 and $133+20$. The average setback distance of the barrier from the near travel lane of U.S. Route 29 would be approximately 24 feet. Total cost would be approximately $\$ 162,000$ or $\$ 13,496 /$ residence for 12 impacted receptors benefitting from the conceptual barrier system. However, this mitigation measure would not be physically feasible because access to the community would be denied. This loss of access would primarily affect existing driveway and garage combinations which are currently accessed directly from U.S. Route 29.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Pinecrest would not be considered reasonable and feasible because of safety and access criteria, and substantial community disruption would occur.

Access would be have to retained at Crestmoor Drive in the community of Woodmoor resulting in a barrier consisting of two sections located between stations 134 and 160. A barrier 16-21 feet in height and approximately 2,260 feet in length would provide a 4-11 dBA reduction of noise levels in Woodmoor. Wraps where the barrier would turn back at Crestmoor Drive would be required for each barrier section to ensure effective reductions for receptors located near the access opening (Figure IV-3). Approximate cost of the barrier system would be $\$ 713,800$ or $\$ 29,740 /$ residence. Approximately 24 impacted receptors would receive a minimum benefit of 5 dBA reduction of noise levels from the barrier system. However this mitigation measure would not be physically feasible because access to the community would be denied.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Woodmoor would not be considered reasonable and feasible because of safety and access criteria and significant community disruption would occur.

Future noise levels with a barrier would be reduced 8-13 dBA in Northwood Park with a conceptual barrier 11-16 feet in height (Figure IV-3). Abated noise levels would be 61-65 dBA. Twenty-six impacted receptors would receive effective reductions with the proposed barrier. The barrier would be located between stations 125 and $140+80$. Approximate length of the barrier would be 1510 feet. As previously discussed for Woodmoor, wraps would be required in Northwood Park at the access opening to Lorain Avenue to ensure the acoustic integrity of the barrier system. The barrier would cost approximately $\$ 299,440$ or $\$ 11,520 /$ residence. However this mitigation measure would not be physically feasible because access to the community would be denied.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Northwood Park would not be considered reasonable and feasible because of safety and access criteria and substantial community disruption would occur.

It would be feasible to place a barrier along U.S. Route 29 to reduce noise levels associated with the Selected Alternative for the townhouse units in Kinsman Farms north of Eastwood Avenue. The barrier would be located between stations $141+60$ and $151+70$. A total of 15 impacted residential units would benefit from a barrier, and a 5-10 dBA reduction would be possible with a barrier 21 feet in height and 1,110 feet in length (Figure IV-4). A wrap would be required at Eastwood Avenue. The approximate cost of the barrier would be
$\$ 383,170$ or $\$ 25,540 /$ residence. Mitigation will be studied during final design when a final determination of reasonableness and feasibility would be evaluated.

## Noise Sensitive Area E: Burnt Mills Hills, Burnt Mills Village

A conceptual barrier system consisting of four sections to allow for local access would provide a $10-12 \mathrm{dBA}$ reduction of noise levels in Burnt Mills Hills (Figure IV-4). The barrier would be located between stations 186 and $198+40$, and would be approximately 1246 feet in length and 11-16 feet in height. Total cost of the barrier system would be $\$ 180,200$ or $\$ 16,390 /$ residence. A total of 11 impacted receptors would receive a minimum benefit of 5 dBA reduction of noise levels. Access would be retained for Burnt Mills Avenue, Southwest Drive and Northwest Drive. Openings placed in a barrier system to provide access to local communities generally result in decreased barrier acoustical performance. Also, residents located near openings would receive little or no benefit from the barrier system.

The effect of multiple segmented barrier sections, with wraps provided at access openings, would be physically and visually disruptive to community cohesion between adjacent neighborhoods. Additionally, wraps would require additional right-of-way acquisition, further impacting residents located at access areas. This effect is often gauged to be non-desirable by affected residents. A final determination of reasonableness and feasibility would be evaluated during final design of the U.S. Route 29 improvement.

A barrier system consisting of three sections to allow for local access would provide a $5-11$ dBA reduction of noise levels for 6 impacted receptors in Burnt Mills Village (Figure IV-4). The barrier system would be approximately 1,520 feet in length and 11-16 feet in height. Total cost of the barrier system would be $\$ 296,390$ or $\$ 49,500 /$ residence. The barrier would be located between stations $179+80$ and 195. Access would be retained for Burnt Mills Avenue and southwest Drive.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Burnt Mills Village would not be considered reasonable and feasible because of cost, safety, and access criteria.

The Southeast Hebrew Congregation is located on Lockwood Drive southeast of Noise Sensitive Area E. The building is more than 300 feet from the near lanes of U.S. Route 29 and is air conditioned. Due to the large setback distance from U.S. Route 29, the proposed project would not result in noise impacts to religious activities held at this facility.

## Noise Sensitive Area F: Burnt Mills Townhouses

Future noise levels would be reduced $9-11 \mathrm{dBA}$ with a conceptual barrier 16 feet in height (Figure IV-5). Abated noise levels would be 58-60 dBA. Six receptors would receive a minimum 5 dBA reduction with the proposed barrier. The barrier would be located between stations $198+40$ and $210+60$. Approximate length of the barrier would be 1300 feet. The barrier would parallel the northbound lanes of U.S. Route 29 at an average setback of 24 feet. The barrier would cost approximately $\$ 345,300$ or $\$ 57,550 /$ residence.

Based on a review of all reasonableness and feasibility criteria, mitigation measures evaluated for this area would not be considered reasonable and feasible because of constraints on cost.

## North of MD 650

The projected design year noise levels by noise sensitive area for the area north of MD Route 650 are contained in Table IV-10.

Many residences are currently experiencing noise levels in excess of the FHWA NAC due to existing traffic operations and minimal setback from U.S. Route 29 traffic operations. Some developers have constructed earth berms between the communities and U.S. Route 29, thus providing effective noise reduction in these areas.

Where appropriate, the use of naturally occurring earthen embankments, roadway cut sections sand ground attenuation effects were utilized to evaluate future predicted noise levels. Where feasible, barriers were evaluated to reduce impacts associated with U.S. Route 29 improvements. Barrier heights from 11 to 26 feet were evaluated.

## Impact Assessment and Abatement Analysis

Evaluation of the No-Build Alternative was performed to determine the future-year (2015) noise levels of residences along existing major roadways. The No-Build Alternative assumes that no roadway improvements other than normal maintenance will occur within the project area. With implementation of the No-Build Alternative, thirteen of the fourteen noise-sensitive areas (NSAs) would experience design-year (2015) noise levels above FHWA criteria. None of the predicted future-year noise levels would result in an ambient increase of 10 dBA .

Table IV-11 presents future predicted noise levels of each noise sensitive area for the NoBuild Alternative and the Selected Alternative. An increase in noise levels of 3 to 4 dBA would be generated from the operation of the Selected Alternative as compared to the No-Build Alternative. This increase would be due entirely to increased LOS C traffic volumes resulting from grade-separation improvements.

None of the future noise levels for the No-Build Alternative would exceed existing noise levels by 10 dBA or more. One receptor location in area N would increase approximately 10 dBA with the line shift concepts for the Selected Alternative.

With the No-Build Alternative, a total of 74 receptors would meet or exceed the NAC; 199 receptors would meet or exceed the NAC with the Selected Alternative. With the line shift concepts developed under the Selected Alternative, a total of 185 receptors would meet or exceed the NAC.

Mitigation of impacts associated with the No-Build Alternative are evaluated equally with respect to a reduction of $7-10 \mathrm{dBA}$ to define feasibility of abatement, even though non-abated noise impacts for the Selected Alternative are quantitatively on the order of 3 dBA greater than the corresponding No-Build Alternative non-abated noise levels for the same Noise Sensitive Area. This increase in noise for the Selected Alternative is due entirely to increased traffic

Table IV-10

## Projected Design Year Noise Levels By Noise Sensitive Area $L_{\text {eq }}$, ABA <br> North of MD Route 650


${ }^{(1)}$ Residence impacted at 70 dBA for existing and No-Build Alternative would be taken for the Selected Alternative. Second row residence would then be worst-case receptor with a noise level of 68 dBA .

NSA - Noise Sensitive Area

## Table IV-11

## Summary of Impact and Mitigation

Noise Sensitive Areas

## North of MD Route 650

|  |  |  | No-Build Alternative Number of Recephors |  |  |  |  | Selected Atternative Number of. Receptorim. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Noise Level |  | Mitigation |  |  | Noive Level | Total Impactst | Mitigition |  |  |
| NSA | Community | Existing Nolse lerel | Future 2015 Noise levelleq, dBA. | Total Impacts* |  |  | Itt <br> Total | Future 2015 Notse Level ley, dBA |  |  | $\begin{aligned} & \text { tit } \\ & \text { sit } \end{aligned}$ |  |
| G | Oak Hills Apts. White Oak Towers Springbrook Manor | $\begin{aligned} & 63-65 \\ & 57-58 \\ & 58-64 \end{aligned}$ | $\begin{aligned} & 63-63 \\ & 57-58 \\ & 58-64 \end{aligned}$ | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | $\begin{aligned} & 66-68 \\ & 60-61 \\ & 62-68 \end{aligned}$ | $\begin{gathered} 2 \\ 0 \\ 16 \end{gathered}$ | 2 0 9 | $\begin{aligned} & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 2 \\ & 0 \\ & 9 \end{aligned}$ |
| H | Bronzegate Apts. Rolling Acres/ Inverleigh | $\begin{aligned} & 65-66 \\ & 65-71 \end{aligned}$ | $\begin{aligned} & 65-66 \\ & 65-71 \end{aligned}$ | $\begin{gathered} 0 \\ 10 \end{gathered}$ | $\begin{aligned} & 0 \\ & 6 \end{aligned}$ | 0 1 | 0 | $\begin{aligned} & 68-69 \\ & 68-75 \end{aligned}$ | $\begin{aligned} & 11 \\ & 23 \end{aligned}$ | 8 11 | 0 5 | $\begin{gathered} 8 \\ 16 \end{gathered}$ |
| 1 | Shanandale Drive | 60-67 | 60-67 | 2 | 1 | 0 | 1 | 63-70 | 5 | 4 | 0 | 4 |
| J | Res. N. of Fairland Rd. <br> Fairland Elementary School | $\begin{aligned} & 65-70 \\ & 59-64 \end{aligned}$ | $\begin{aligned} & 65-70 \\ & 59-64 \end{aligned}$ | 1 | 0 | 0 | 0 | $\begin{gathered} 68 \\ 62-67 \end{gathered}$ | 1 | 0 | $\begin{aligned} & 1 \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 0 \end{aligned}$ |
| K | Windsor Court Apts. Avonshire Apts. | $\begin{aligned} & 64-66 \\ & 67-71 \end{aligned}$ | $\begin{aligned} & 64-66 \\ & 67-71 \end{aligned}$ | $\begin{gathered} 0 \\ 20 \end{gathered}$ | $\begin{gathered} 0 \\ 12 \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} 0 \\ 12 \end{gathered}$ | $\begin{aligned} & 67-69 \\ & 70-74 \end{aligned}$ | $\begin{aligned} & 16 \\ & 32 \end{aligned}$ | $\begin{gathered} 8 \\ 14 \end{gathered}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} 8 \\ 14 \end{gathered}$ |
| L | Greencastle Lakes Paint Branch High School | $\begin{aligned} & 60-68 \\ & 60-63 \end{aligned}$ | $\begin{aligned} & 60-68 \\ & 60-63 \end{aligned}$ | $\begin{gathered} 15 \\ 0 \end{gathered}$ | $\begin{aligned} & 5 \\ & 0 \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & 5 \\ & 0 \end{aligned}$ | $\begin{aligned} & 63-70 \\ & 63-67 \end{aligned}$ | 28 1 | 28 0 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} 28 \\ 0 \end{gathered}$ |
| M | Country Place Apts. <br> Oakhurst <br> SW Quad. Blackburn Rd. | $\begin{aligned} & 62-65 \\ & 63-67 \\ & 64-66 \end{aligned}$ | $\begin{aligned} & 62-65 \\ & 73-67 \\ & 64-66 \end{aligned}$ | 0 8 0 | 0 6 0 | 0 0 0 | 0 6 0 | $\begin{aligned} & 66-68 \\ & 66-70 \\ & 67-70 \end{aligned}$ | 9 11 7 | 8 9 5 | 0 0 0 | 8 9 5 |

Table IV-11
Summary of Impact and Mitigation
Noise Sensitive Areas
North of MD Route 650
(Continued)

|  |  |  | No Build A | ernative NiNor | ber of | eptor |  | Selected Aht | intive Nu. | er of: | ptor |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Noiselserel/ |  |  | igation |  | Noise Level |  | \% | tigati |  |
| $\mathrm{NSA}$ | Community | Exititing Notse Lere | Futare 2015 Noise lerdlimidaA. | Total Impacts* |  | ॠ九 | tit <br> Total | Tuture 2015 Noise lerell Leq, IBA | Total 1 limpacts* |  |  |  |
| N | Dustin Rd. (SE Quad.) <br> Dustin Rd. (NE Quad.) <br> Primitive Baptist Church <br> Dustin Rd. (SW Quad.) | $\begin{aligned} & 57 \\ & 61 \\ & 69 \\ & 70 \\ & \hline \end{aligned}$ | 57 61 69 70 | 0 0 9 1 | 0 0 0 1 | 0 0 0 0 | 0 0 0 1 | 60 64 72 73 | 0 0 14 1 | 0 0 0 1 | 0 0 0 0 | 0 0 0 1 |
| Totals for existing alignment |  |  |  | 74 | 39 | 1 | 40 |  | 199 | 127 | 6 | 133 |
| $\mathrm{N}^{(2)}$ | Dustin Rd. (SE Quad.) <br> Dustin Rd. (NE Quad.) <br> Primitive Baptist Church <br> Dustin Rd. (SW Quad.) | 57 <br> 61 <br> 69 <br> 70 | - | 0 0 9 1 | 0 0 0 1 | 0 0 0 0 | 0 0 0 1 | 66 66 55 65 | 1 0 0 0 | 1 0 0 0 | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | 1 0 0 0 |
| Totals with line shift north of MD 198 |  |  |  | 74 | 39 | 1 | 40 |  | 185 | 127 | 6 | 133 |

* Total impacts - the total number of impacts within a noise sensitive area.
$\dagger$ The number of impacted receptors receiving a 7-10 dBA reduction of noise levels.
$\dagger \dagger$ The number of impacted receptors receiving a 5-6 dBA reduction of noise levels.
$\dagger \dagger \dagger$ The total number of impacted receptors receiving a minimum of 5 dBA reduction of noise levels
(1) Impact and mitigation data are presented for the most effective concent (option) for noise control presented under the Selected Alternative for the specific Noise Sensitive Area.

In most cases, this would be a total control of access concept, devoid of any access for local roadways through the barrier Line shift data between MD 198 Route and Dustin Road.
capacity associated with the controlled access design. Therefore, mitigation of noise impacts for the No-Build Alternative would have approximately equivalent length, height, and cost requirements associated with achieving the minimum insertion loss design goal of $7-10 \mathrm{dBA}$ at first-row receptors.

Table IV-11 also presents the number of impacted receptors in each NSA for the NoBuild Alternative that would benefit from mitigation measures. As can be seen, 40 receptors would benefit from mitigation measures implemented with the No-Build Alternative. A total of 133 receptors would benefit from mitigation measures for the Selected Alternative. With the line shift concepts associated with the Selected Alternative, a total of 133 receptors also would benefit from mitigation measures.

Table IV-12 presents a summary of the barrier dimensions, location, noise reduction benefits and associated costs for mitigation of noise impacts in each Noise Sensitive Area.

## Selected Alternative

Construction of the Selected Alternative would not substanially increase noise levels within the project corridor. Of the future noise sensitive areas modeled, the future-year (2015) noise levels would exceed the FHWA's noise abatement criteria for Category B Activities within all noise sensitive areas. Predicted future-year (2015) noise levels ranged from a minimum of 57 dBA at NSA G and N to a maximum of 75 dBA at NSA H .

Because the No-Build Alternative would not result in an increase in capacity, or involve lane additions to U.S. Route 29, these alternatives would not qualify for mitigation analyses. Only the Selected Alternative would qualify for consideration as mitigation measures for this project. All of the identified Noise Sensitive Areas would be impacted in excess of the NAC for the Selected Alternative.

The following assumptions were made with regard to noise impact analysis enabling the combination of the No-Build Alternative for comparison with the Selected Alternative.

1. There are no roadway differences that would result in substantially different traffic capacity between the No-Build Alternative. LOS C traffic volumes would be equal or slightly decreased and speeds would be equivalent for these alternatives; therefore, worst-case noise levels would remain the same. These alternatives have therefore been combined for the purposes of simplifying the noise analysis and are hereafter referred to as the No-Build Alternative.
2. The major difference between the Selected Alternative and the No-Build Alternative is grade separations at interchanges. The Selected Alternative improvements would result in a greater increase in noise levels than the No-Build Alternative for LOS C operation, due entirely to the increased traffic capacity associated with the Selected Alternative.

Table IV-12

## Abatement Summary Noise Sensitive Areas <br> U.S. Route 29 <br> Montgomery, County, MD

| NSA | D. CH Hiom | No. of Homes Impucted osid Benethted | Stended Alornulve |  |  |  | Alutin |  |  | ComPRRendence$(\Leftrightarrow \otimes 1000)$ | Nots |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | AMM易为 |  |  | Build u/ Bamer (1) $-\mathrm{F} \mathrm{H} \mathrm{Y}=\mathrm{H}$ ) | Unith | $\begin{aligned} & \text { Hifill } \\ & \text { In... } \end{aligned}$ | $\begin{aligned} & \text { Con } \\ & \text { Cumin, } \end{aligned}$ |  |  |
| G | Onk Hill Appo. | 2 | 62 | > 63.65 | 66-68 | 60-63 | 1180 | 16 | . 315 | 157 | Mitigation meanures evaluated but not remonable becauce benefitu do not jumtify cont. |
|  | White Onk Towent | 0 | 58 | 57.58 | 60-61 | .- | -. | - | - | - | Mitigation menures evaluatod but not ressonable because benefitu do not juatify cont. |
|  | Springbrook Manor | 9 | 63 | 58.64 | 62-68 | 55.57 | 2800 | 16-21. | . 856 | 95 |  |
| H | Broazegnte Aptor_.... | $8$ | 58 | $68-66$ | 68-69 <br> $-68-75$ | $58-60$ <br> 60-69 | $\begin{aligned} & 2200 \\ & 2200 \end{aligned}$ | $16-21$ | $.764$ | 95.5 | Mitigation menaures evalunted but not reaconable because benefitu do not justify cont. |
|  | Rolling Acrea/laverkigh | $\bigcirc 16$ |  | $65-71$ |  |  |  | 16 | . 580 | 36 | Detailed studiet of noise mitigation mensure recommended during final design. |
| I | Shenandale Drive" | 4 | 60 wr | $60-67$ | 63-70 | 56-61 | 1780 | 21 | . 615 | 154 | Mitigation mearures evaluated but not reasonable because benefits do not justify cont. |
| 1 | Res. N. of Pairland Rd. <br> Fairland Elementary School | 1 | 62 | 65-70 | 68 | 57 | -,945 | 16 | . 249 | 249 | Mitigation meanurea evaluated but not reacoosable becinure benefitu do not justify cost. |
|  |  | 0 | 50 | 59.64 | 62-67 | .. | - | - | -- | -- |  |
| K | Windmor Court Apta. | 8 | 58 | 64.66 | 67.69 | 59.60 | 1300 | 21 | . 442 | 55.5 | Mitigation measures evaluated but not reamonable because benefits do not juutify cont. |
|  | Avosabire Apto. | 14 | 61 | 67-71 | 70-74 | 60-63 | 1200 | 11-16 | . 414 | 29.5 | Detailod studies of noise mitigntion mensures recommended during final dexign. |
| L | Greencmule Lakee | 28 | 62 | 60-68 | 63.70 | 56-63 | 3800 | 21-26 | 1.418 | 50.6 | Mitigation measures evaluated but not reasonable because benefitu do not justify coot. |
|  | Paint Branch High School | 0 | 51 | 60-63 | 63.67 | - | - | -. | - | - | Detailod atudies of noise mitigation measurea recommended during final design. |
|  | Perrywood Esatee | 20 | 60 | 59-70 | 62.73 | 58-62 | 2400 | 21 | . 833 ` | '41.6 |  |

Table IV-12

## Abatement Summary Noise Sensitive Areas <br> U.S. Route 29 <br> Montgomery, County, MD <br> (Continued)

|  | Dechiption | No. of Home Imphetdals D | Solocted Allieminte |  |  |  | Brimer |  |  | Conter Reithenco $(\$ \times 1000)$ | Nole |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Build W/Bartier (Demen Year) | Lent $\qquad$ | $\begin{array}{r} \text { Hequ. } \\ (n) \end{array}$ | $\begin{gathered} \text { Coip) } \\ (\mathbf{m i n}) \end{gathered}$ |  |  |
| M | Country Pluce Apta. | 8 | 58 | 62-65 | 66-68 | 60 | 1030 | 21 | . 358 | 45 | Detailod studies of noise mitigation measurea recommended during final deaign. |
|  | Oakhurat | 7 | 63 | 63-67 | 66-70 | 60-63 | 1800 | 21 | . 622 | 89 | Mitigntion meanurea evaluated but not reawnable because benefita do not juatify cosh. |
|  | Blackbum Rom | 5 | 68 | 64-66 | 67-69 | 57-60 | 1220 | 16 | . 358 | 72 | Mitigation meneurea evaluntod but not reasonable because benefits do not justify cost. |
| N | Duation (SE) | 1 | 50 | 57 | 66 | 58 | 1830 | 21 | . 634 | 634 | Mitigation menares evaluated for line shif option only. Mitigation measurea evalunted but not renmonable because benefits do not justify cont. |
|  | Duatin (E) \} | 0 | 56 | 61 | 66 | - | -- | -- | -- | -- |  |
|  | Primeton Baplist Church | 0 | 65 | 69 | 55 | 69 | 700 | 26 | . 429 | 86 | Mitigation menaures evaluated but not feasible due to restriction of eccese to local residents. |

(1) Representative "worst case" measurement of designated area. Based on \$16.50/sf.

NSA - Noise Sensitive Area

Table IV-10 summarizes worst-case mainline noise impacts associated with the No-Build and Selected Alternatives for each Noise Sensitive Area. An increase in noise levels of 3 to 4 aBA would be generated from the operation of the Selected Alternative as compared to No-Build Alternative. This increase would be due entirely to increased LOS C traffic volumes resulting from grade-separation improvements.

None of the future noise levels from the No-Build Alternative would increase existing noise levels by 10 dBA or more. One receptor location in area N would approach a 10 dBA increase over existing noise levels with the line shift concepts for the Selected Alternative.

With the No-build Alternative, a total of 74 receptors would approach or exceed the NAC. With the line shift concepts developed under the Selected Alternative, a total of 185 receptors would approach or exceed the NAC.

## Noise Sensitive Area G: Oak Hill Apartments, Springbrook Manor

Approximately seven impacted first-row apartment units in Oak Hill Apartments face U.S. Route 29. A barrier approximately 1,180 feet in length and 16 feet high would provide benefits of 5-6 dBA reduction of U.S. Route 29 noise levels for 2 receptors. Abatement of noise levels associated with Old Columbia Road would not be feasible at the apartment complex due to access and safety restrictions (Figure IV-7). The barrier would be located between stations 231 and $242+70$. The average setback distance of the barrier from the near travel lane of U.S. Route 29 would be approximately 24 feet. Total cost would be approximately $\$ 314,790$ or \$157,361/residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Oak Hill Apartments would not be considered reasonable and feasible because of cost and substantial reduction in noise levels would not occur.

Approximately 17 impacted first-row residences face U.S. Route 29 in the community of Springbrook Manor. A barrier approximately 2,800 feet in length and 16-21 feet high would provide a 5-12 dBA reduction of noise levels for receptors located in this area (Figure IV-7). The barrier would be located between stations 244 and $272+50$. The average setback distance of the barrier from the near travel lanes of U.S. route 29 would be approximately 24 feet. Total cost would be approximately $\$ 855,556$ or $\$ 95,060 /$ residence for 9 receptors benefiting.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Springbrook Manor would not be considered reasonable and feasible because of constraints on cost.

## Noise Sensitive Area H: Bronzegate Apartments, Rolling Acres-Inverleigh

Approximately 8 impacted apartment units in Bronzegate Apartments would benefit from a barrier approximately 2,200 feet in length and 16-21 feet in height. The barrier would provide a 9-10 dBA reduction of U.S. Route 29 noise levels for first-row receptor locations. Abatement of noise levels associated with Old Columbia Road would not be feasible at the apartment complex (Figure IV-8). The barrier would be located between stations $268+90$ and $295+50$, would begin on structure, transition to the top of the embankment, and continue along Old



Columbia Road. The barrier would be located between stations $268+90$ and $295+50$, would begin on structure, transition to the top of the embankment, and continue along Old Columbia Road. Total cost would be approximately $\$ 763,890$ or $\$ 95,490 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Bronzegate Apartments would not be considered reasonable and feasible because of constraints on cost.

Approximately six first-row residences in Rolling Acres and three apartment buildings in Inverleigh face U.S. Route 29. Sixteen impacted receptors would benefit from a barrier approximately 2,200 feet in length and 16 feet in height which would provide a $5-10 \mathrm{dBA}$ reduction of U.S. Route 29 noise levels for first-row receptor locations. Abatement of noise levels associated with Old Columbia Road (Inverleigh Apartments) and Cedar Hill Road (Rolling Acres) would not be feasible with the proposed barrier due to access and safety restrictions (Figure IV-8). The barrier would be located between stations 286 and 304 and would parallel the southbound lanes of U.S. Route 29 at a setback distance of approximately 24 feet. Total cost would be approximately $\$ 580,555$ or $\$ 36,285 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Rolling Acres and Inverleigh Apartments is recommended for detailed study during final design.

## Noise Sensitive Area I: Shanandale Drive

Approximately four impacted residences would benefit from a barrier approximately 1,780 feet in length and 21 feet in height. The barrier would provide an 9-10 dBA reduction of U.S. Route 29 noise levels for first-row receptor locations (Figure IV-9). The barrier would be located between stations $339+20$ and $351+70$, would begin along the proposed northbound entrance ramp and continue along the northbound lanes of U.S. route 29 at a setback of approximately 24 feet. Total cost would be approximately $\$ 615,450$ or $\$ 153,850 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for this residence would not be considered reasonable and feasible because of constraints on cost.

## Noise Sensitive Area J: Residence North of Fairland Road

For the Selected Alternative, future predicted noise levels would be reduced 10 dBA at receptor J1 with a barrier 21 feet in height. Barrier length and location would be equivalent to the No-Build Alternative barrier discussion. The barrier would cost approximately $\$ 326,964$. The barrier location studied is presented graphically in Figure IV-10.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for this residence would not be considered reasonable and feasible because of constraints on cost.



## Noise Sensitive Area K: Windsor Court Apartments, Avonshire Apartments

It would be feasible to place a barrier along U.S. Route 29 to reduce noise levels, associated with the Selected Alternative, for the apartment complex. A total of 8 residential units would benefit from the barrier, and a 7-10 dBA reduction of noise levels would be possible with a barrier 21 feet in height and 1,300 feet in length (Figure IV-11). The barrier would continue along the northbound lanes of U.S. Route 29 and connect with the southern terminus of the proposed barrier for NSA L, Greencastle Lakes. The barrier would be located between stations $424+50$ and $437+50$. The approximate cost of the barrier would be $\$ 442,278$ or $\$ 55,535 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for the Windsor Court Apartments would not be considered reasonable because of constraints on cost.

Ten first-row apartment buildings face U.S. Route 29 in Avonshire Apartments. A barrier approximately 1,200 feet in length and 11-16 feet in height would provide a 9-11 dBA reduction of U.S. Route 29 noise levels for fourteen first row receptor locations (Figure IV-11). The barrier would be located between stations $405+50$ and $418+80$ and would parallel the southbound ramp from U.S. route 29 on the top of the proposed retaining wall. Total cost would be approximately $\$ 414,335$ or $\$ 29,595 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Avonshire Apartments are recommended for detailed study during final design.

## Noise Sensitive Area L; Greencastle Lakes, Perrywood Estates

It would be feasible to place a barrier along U.S. Route 29 to reduce noise levels, associated with the Selected Alternative, for the apartment complex at Greencastle Lakes. A total of 28 impacted residential units would benefit from the barrier, and a 5-10 dBA reduction of noise levels would be possible with a barrier 21-26 feet in height and 3,800 feet in length (Figure IV-12). The barrier would connect at the southern terminus with the proposed barrier at the Windsor Park Apartments and continue along the northbound lanes of U.S. Route 29 to Greencastle Road. The barrier would be located between stations $437+50$ and $475+50$. The approximate cost of the barrier would be $\$ 1,417,780$ or $\$ 50,635 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Greencastle Lakes would not be considered reasonable because of constraints on cost.

Approximately 20 impacted residences in Perrywood Estates would benefit from a barrier 2,400 feet in length and 21 feet in height. The barrier would provide an 8-11 dBA reduction of U.S. Route 29 noise levels for first-row receptor locations (Figure IV-12). The barrier would be located between stations $442+30$ and $466+50$ and would be setback approximately 24 feet from the southbound lanes of U.S. Route 29. A wrap along the southbound entrance ramp would be required at the northern terminus of the proposed barrier. Cost would be approximately $\$ 832,945$ or $\$ 41,650 /$ residence.



Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Perrywood Estates are recommended for detailed study during final design.

Noise Sensitive Area M: Country Place Apartments, Oakhurst, Residences along Blackburn Road Impacted receptors in Country Place Apartments would benefit from a barrier approximately 1,030 feet in length and 21 feet in height which would provide a 6-8 dBA reduction of U.S. Route 29 noise levels for first-row receptor locations (Figure IV-13). The barrier would be located between stations 507 and 517 and would parallel northbound U.S. route 29. A total of eight impacted residential units would benefit from the proposed barrier at a cost of approximately $\$ 358,110$ or $\$ 44,765 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Country Place Apartments are recommended for detailed study during final design.

Approximately 7 impacted residences in Oakhurst would benefit from a barrier 1,800 feet in length and 21 feet in height. The barrier would provide a $7-10 \mathrm{dBA}$ reduction of U.S. Route 29 noise levels for first-row receptor locations (Figure IV-13). The barrier would be located between stations 478 and $496+30$ and would be setback approximately 24 feet from the southbound lanes of U.S. Route 29. The barrier would connect with the southern terminus of the proposed barrier for residences along Blackburn Road. Cost would be approximately $\$ 621,500$ or $\$ 88,785 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for Oakhurst would not be considered reasonable and feasible because of constraints on cost.

Approximately five first-row receptors face U.S. Route 29 south of Blackburn Road. A barrier approximately 1,220 feet in length and 16 feet in height would provide a 9-10 dBA reduction of U.S. Route 29 noise levels for first-row receptor locations (Figure IV-13). The barrier would parallel southbound U.S. Route 29, beginning at station $496+30$ where the barrier would connect to the northern terminus of the proposed barrier at Oakhurst, continue to station 507, at a setback of 24 feet, and terminate with a wrap along the proposed southbound entrance ramp to U.S. Route 29 at station $508+50$. A total of five impacted residential units would benefit from the proposed barrier at a cost of approximately $\$ 358,110$ or $\$ 71,620 /$ residence.

Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for these residences would not be considered reasonable and feasible because of constraints on cost.

Noise Sensitive Area N: Primeton Baptist Church, S.W. Quadrant of Dustin Road, S.E. Quadrant of Dustin Road (line shift)

A barrier approximately 1,830 feet in length and 21 feet in height would provide a 6 dBA reduction of U.S. Route 29 noise levels for the first-row receptor location in the southeast quadrant of Dustin Road (Figure IV-14). The barrier would be located between stations $553+80$ and $571+50$, and would transition from the top of embankment to roadway on fill continue northward and transition back to a top of embankment location. Total cost would be approximately $\$ 634,000$.



Based upon a review of all reasonableness and feasibility criteria, mitigation measures evaluated for this residence would not be considered reasonable and feasible because of constraints on cost.

## Construction Impacts

Construction noise differs from traffic noise in length, type, and duration of noise events. Construction noise is of a fixed duration, usually during daylight hours, and generally does not continue throughout the night. In addition, construction noise emanates from discontinuous noise sources, such as heavy machinery that produce varying levels of sound. Impacts resulting from construction are dependent upon the length of construction, equipment types, and the equipment usage cycle.

Typical construction would involve activities such as demolition, clearing and grubbing, earthwork, foundations, superstructures, paving operations, and finishing. Equipment used for these activities will be subject to Construction Noise Specifications to minimize impacts through control of the noise source, control along the sound path, and control at the receptor.

An increase in project area noise levels would occur during the construction of the proposed improvements. Construction noise differs from that generated by normal traffic due to its unusual spectral and temporal nature. The actual level of noise impact during this period will be a function of the number and types of equipment being used, as well as the overall construction procedure.

Generally, construction activity would occur during normal working hours on weekdays. Therefore, noise impacts experienced by local residents as a result of construction activities should not occur during sleep or outdoor recreation periods.

## Other Mitigation Measures

In addition to noise walls, other abatement measures were considered. These include:

## a. Traffic Management Measures

Traffic management measures which could be used include traffic control devices and signing for prohibition of certain vehicles (heavy trucks), time use restrictions for certain types of vehicles, modified speed limits and exclusive lane designations.

It is not possible to prohibit heavy trucks from this type of facility, as it is a heavily traveled trucking corridor.

## b. Alterations of Horizontal and Vertical Alignment

This also is not a reasonable alternate because the project consists of widening and existing facility within the median.

## c. Acquisition of Real Property or Property Rights to Establish Buffer Zones

Existing residential development adjacent to U.S. Route 29 makes it infeasible to acquire substantial amounts of property for buffer areas.

## F. INITIAL SITE ASSESSMENTS - HAZARDOUS MATERIALS

Candidate properties for Phase I site assessments were identified from the Selected Alternative mapping and refined by preliminary site visits. The sites were selected by their proximity to the proposed alignment and probable environmental impact. Seventy-seven sites were identified for assessment within the Selected Alternative. The individual site assessment reports are included under separate cover to this report. Phase I Site Assessments were performed on sites that included agricultural, residential, commercial and manufacturing entities. In addition, several properties were excluded from the Phase I Site Assessment based on obvious environmental concerns such as current usage as a gasoline dispensing station for which Phase II Assessments should be conducted.

The gasoline stations excluded from the Phase I Site Assessments are located along the alignment, from north to south at Briggs Chaney Road (southeast of the alignment), East Randolph Road (northwest of the alignment), Timberwood Avenue (west of the alignment) and along both the west and east sides of U.S. Route 29 at the intersection of University Blvd. and U.S. Route 29. Due to the historical and potential current storage tank leaking problems, it is recommended that a Phase II Site Assessment with acquisition of environmental samples of the soil sand groundwater be undertaken prior to acquisition.

The junctions of University Blvd. and U.S. Route 29, "Four Corners Area" contains both historical and present day gasoline dispensing stations. In addition, several properties for which Phase I investigations had fuel storage as an integral part of their past or present operations. A soil gas survey may need to be conducted on the existing ROW to determine the areas where Phase II assessments need to be focused.

The most frequently occurring evidence of environmental degradation appeared associated with automobile fuel storage. Several incidents of improper waste disposal practices were noted during the site inspections. These incidents generally were associated with automobile repair facilities or practices. Several facilities contain fuel oil storage tanks and past leakage from those tanks were noted.

There is a strong likelihood that petroleum contaminated soils will be encountered on several of the properties or section of properties anticipated to be acquired for this project. Impact of these petroleum contaminated soils on the project will be associated with characterization, excavation, testing and disposal of encountered contamination. To minimize the impacts of contaminated sites on the construction of the roadway improvements, it is recommended that characterization of the potentially acquired property be conducted prior to the purchase of the properties as delays and expenses associated with construction related discovery of contamination can be substantial. Site specific recommendations are included in each Phase I Site Assessment Report. The U.S. Route 29 Phase I Environmental Assessments Report Volumes 1-15 (Sept. 1993) can be obtained from MD SHA.

## G. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

Implementation of the proposed project would involve the commitment of natural, physical, human and fiscal resources.

Land used for transportation purposes is considered a relatively permanent commitment of resources. Although this land could be restored for other uses if a greater need arises or if the highway is no longer needed, the effort would be extremely costly as well as time consuming. Presently, there is no reason to believe that such a conversion will be necessary or desirable.

The use of materials, labor, and energy would be irretrievably committed to construction and maintenance of the proposed project.

Once utilized in road construction, certain mined and manufactured materials such as sand, gravel, steel and cement are, for practical purposes, irretrievable. These materials, however, are not in short supply and their use would not have an adverse effect on their continued availability. The project commitment of construction materials and labor would be irretrievable.

The use of energy resources in the construction and operation of the highway would be an irretrievable commitment of resources. Compilation of the total energy balance sheet for the highway is unusually complex. The use of gasoline for travel would be balanced by the efficiency of this additional investment of fuels in terms of moving goods and people and of increasing their production.

The land acquired for right-of-way would be, for all practical purposes, irreversibly committed to transportation use and will not yield tax revenue. Tax losses to the area, however are not necessarily irretrievable. The highway has the potential to stimulate economic growth and increase the overall productivity of the area, thus increasing tax revenues.

Residents in the area, region, and state are expected to benefit from the improved accessibility and savings in time provided by the improvements. It is anticipated that these benefits would outweigh the commitment of natural, physical, human, and fiscal resources.

## H. RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES OF MAN'S ENVIRONMENT AND THE MAINTENANCE AND ENHANCEMENT OF LONGTERM PRODUCTIVITY

The short-term uses of the environment due to the implementation of the project would be temporary and would occur primarily during construction. Land required for the right-of-way would become permanently committed to transportation needs. Taking this land would involve an initial loss of tax revenue. The air and noise environments of the corridor would be impacted by construction equipment and activities. The expenditure of time, energy, and money are also short-term uses of resources that would be associated with the project.

The project has been proposed and planned in response to growth that has occurred in the past years. Maintenance of long-term productivity in the area would be attained through increased safety and a reduction in congestion. The long-term effects of the project would result from changes in land use and economic development. The anticipated improved access to the area and the decreased local traffic congestion expected to result from the proposed project would both support and help stimulate the long-term productivity and development benefits of the region.

Section V
List of Preparers

## V. LIST OF PREPARERS

The following is a list of key personnel responsible for the preparation of the Final Environmental Impact Statement, and their project responsibilities:

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Environmental Engineer

Deputy Director
Project Manager
Deputy Division Chief
Environmental Manager

Project Manager
Transportation Engineer
Noise Specialist
Environmental Planner/Manager
Environmental Scientist/Planner
Environmental Scientist/Biologist
Land Use Planner
Geologist

Air Quality

## VI. DISTRIBUTION LIST

FEDERAL AGENCIES
Department of Agriculture
State Conservationist
Soil Conservation Service
4321 Hartwick Avenue (Room 552)
College Park, MD 20740
Mr. Bruce Blancbard, Director
Office of Environmental Project Review
U.S. Department of the Interior
18th and C Streets, N.W.
Washington, D.C. 20242
U.S. Environmental Protection Agency
Region III
Mr. Jeffrey Alper, Chief (3ES41)
NEPA Compliance Section
841 Chestnut Street
Philadelphia, PA 19107
Regional Director*
National Marine Fisheries Service
Federal Building
14 Elm Street
Gloucester, MA 19130
Ms. Margaret A. Krengel
Regional Environmental Officer
Department of Housing and Urban Development
Philadelphia Regional Office, Region III
Liberty Square Building
105 South 7th Street
Philadelphia, PA 19106-3392
Mr. Charles Custard, Director
Office of Environmental Affairs
Department of Health and Human Services
200 Independence Avenue, S.W.
Room 537F
Washington, D.C. 20201

* Commented on DEIS


## FEDERAL AGENCIES (Continued)

Ms. Joyce M. Wood, Director
Office of Ecology \& Conservation
National Oceanic \& Atmospheric Administration
U.S. Department of Commerce

Room 5813 (PP/EC)
14th and Constitution Avenue, N.W.
Washington, D.C. 20230
Commander
U.S. Army Corps of Engineers
P.O. Box 1715

Baltimore, MD 21201
ATTN: NABOP-F
Division of NEPA Affairs
Department of Energy
Room 4G064
1000 Independence Avenue, S.W.
Washington, D.C. 20230
Mr. Robert W. Harris, Chief
Transportation Planning
National Capital Planning Commission
1325 G Street, N.W.
Washington, D.C. 20576
Mr. Peter N. Stowell
Regional Administrator
UMTA - Suite 714
841 Chestnut Street
Philadelphia, PA 19107
Associate Director for Planning
Management and Demonstration
Urban Mass Transportation
400 7th Street, S.W.
Washington, D.C. 20590
Office of Economic Opportunity
Director
1200 19th Street, N.W.
Washington, D.C. 20506

## STATE AGENCIES

Ms. Kathleen Fay<br>State Depository Distribution Center<br>Enoch Pratt Library<br>400 Cathedral Street<br>Baltimore, MD 21201<br>Mr. Stan Wong<br>Water Resources Administration<br>Department of Natural Resources<br>Tawes Office Building<br>Annapolis, MD 21401<br>Mr. Donald E. MacLaughlin, Director<br>Maryland Forest \& Park Wildlife Service<br>Department of Natural Resources<br>Tawes Office Building<br>Annapolis, MD 21401<br>ATTN: Mr. James Burtis<br>Ms. JoAnn Watson<br>Maryland Department of the Environment<br>Division of Standards and Certification<br>2nd Floor<br>201 West Preston Street<br>Baltimore, MD 21201

## LOCAL GOVERNMENT AGENCIES

Mr. Graham Norton, Director
Montgomery County Department of Transportation
Executive Office Building
Rockville, MD 20850
Mr. William Hussman, Chairman
Maryland National Capital Park and Planning
Commission
8787 Georgia Avenue
Silver Spring, MD 20910

Maryland State Law Library
Upper Level Court of Appeal Building
361 Rowe Boulevard
Annapolis, MD 21401
Director
Public Affairs
Maryland Department of Transportation
Mr. Clyde E. Pyers, Director
Office of Transportation Planning
Maryland Department of Transportation
Mr. Larry Saben
Washington Regional Office
8720 Georgia Avenue, Suite 904
Silver Spring, MD 20910
Office of Legal Council
Office of the Secretary
Maryland Department of Transportation

Montgomery County Projects
Mr. Dave Sober, Chief
Division of Environmental
Planning and Monitoring
Department of Environmental Protection
101 Monroe Street
Rockville, MD 20850
Ms. Patricia Willard
Maryland National Capital Parks and
and Planning Commission
8787 Georgia Avenue
Silver Spring, MD 20904
Montgomery County Citizens
Bicycle Commission
c/o Mr. Chip Johnson, Chairman
4000 Wexfor Drive
Kensington, MD 20895
RELIGIOUS INSTITUTIONS ON U.S. ROUTE 29 CORRIDOR
Memorial United Methodist
9226 Colesville Road
Silver Spring, MD 20910
Christ Congregational
9525 Colesville Road
Silver Spring, MD 20901
Church of Christ of Silver Spring
100 East Franklin Avenue
Silver Spring, MD 20901
Marvin Memorial United Methodist
33 University Boulevard East
Silver Spring, MD 20901
Southeast Hebrew Congregation
10900 Lockwood Drive
Silver Spring, MD 20901
Share Tetila Congregation
11120 Lockwood Drive
Silver Spring, MD 20901
St. Stephen Lutheran
11612 New Hampshire Avenue
Silver Spring, MD 20902
St. Marks Episcopal
12621 Old Columbia Pike
Silver Spring, MD 20904
Forcey Memorial Fundamental
2130 East Randolph Road
Silver Spring, MD 20904
Roberts Memorial Free Methodist
2337 Fairland Road
Silver Spring, MD 20904
Epiphany Lutheran
14411 Old Columbia Pike
Burtonsville, MD 20866

## RELIGIOUS INSTITUTIONS ON U.S. ROUTE 29 CORRIDOR (Continued)

Burtonsville Baptist3400 Spencerville RoadBurtonsville, MD 20866
Liberty Grove United Methodist
15124 Liberty Grove Drive
Burtonsville, MD 20866
Knox Presbyterian Church
410 Granvale Drive
Silver Spring, MD 20901
Burnt Mills Seventh Day Adventist
10915 Lockwood Drive
Silver Spring, MD 20901
Resurrection Catholic Church
14505 Perrywood Drive
Burtonsville, MD 20866
Columbia Primitive Baptist
15900 Columbia Pike
Burtonsville, MD 20866
COMMUNITY ORGANIZATIONS FOR U.S. 29
Allied Civic Group
Joan Ennis, President
9410 Crosby Road
Silver Spring, MD 20910(558-5962)
Avonshire Homeowners (635)
Scott Brace, President
13769 Avonshire Drive
Silver Spring, MD 20904
Burnt Mills Manor Civic Association (117)
Pamela Mason, President
10900 Childs Street
Silver Spring, MD 20901
(681-6598)
Burnt Mills Hills Citizens AssociationEdwin Miller, President10910 Hoyle AvenueSilver Spring, MD 20901(681-6618)
Burnt Mills Estates 7 Gardens Civic Association
Stuart Elsen, President
813 Northwest Drive
Silver Spring, MD 20901
Burnt Mills Condominiums, Inc.
Marsha Mills, Secretary
11223 Columbia Pike
Silver Spring, MD 20901
Burnt Mills Village Citizens Association
Jack Gates, President
405 Southwest Drive
Silver Spring, MD 20901
Burntonsville/Spencerville Planning
Ellen Beck, President
4325 Valley Stream Avenue
Burtonsville, MD 20866
Calverton Civic Association
Bill Sykora, President
12301 Tampico Way
Silver Spring, MD 20904
Columbia Road Citizens Association
Patricia Faulkner, President
2805 Nalls Lane
Silver Spring, MD 20904
Columbia Towers Condo Association
Board of Directors, Message Slot
12001 Old Columbia Pike
Silver Spring, MD 20904
Dumont Oaks Community Association
A.K., President
8630 Fenton Street \#123
Silver Spring, MD 20910

## COMMUNITY ORGANIZATIONS FOR U.S. 29 (Continued)

## Four Comers Condominium Association

William Fisher
10028 Colesville Road
Silver Spring, MD 20901
Greencastle Lake Homeowners (520)
Morton Levine, Associated Investment
7979 Old Georgetown Road
Suite 805
Bethesda, MD 20814
Indian Springs Citizens Association
Kathy Lipton, President
109 Granville Drive
Silver Spring, MD 20901
Kingsman Farm Homeowners Association
Geoffrey Back, President
19 Kingsman View Circle
Silver Spring, MD 20901
Northwood-Four Corners Civic Association
Tiemey Siegel, President
108 Northwood Avenue
Silver Spring, MD 20901
Northwest Branch Estates Civic Association
George Sloan, Jr. President
10801 Meadowhill Road
Silver Spring, MD 20901
North White Oak Civic Association
Kate Stevenson, President
12122 David Drive
Colesville, MD 20904

North Hills of Sligo Civic Association
Bob Bachman
9523 Thorn Hill Road
Silver Spring, MD 20901
Oakhurst Homeowners Association, Inc.
Deborah Rothenhoeffer, President
Box 506
Burtonsville, MD 20866
COMMUNITY ORGANIZATIONS FOR U.S. 29 (Continued)
Paint Branch Park Twn. Condo
Kitty Roberts, President
11915 Old Columbia Pike
Silver Spring, MD 20904
Perrywood Civic Association
Bob Stephens, President
14404 Perrywood Drive
Burtonsville, MD 20866
Petree
Ms. Carol Petree, Trail Riders of Today
13490 Columbia Road
Silver Spring, MD 20904
Rolling Acres Homeowners Association
Edwards Lyons, President
2017 Featherwood Street
Silver Spring, MD 20904
Seven Oaks-Evanswood Citizens Association
William Kaupert, President
9222 Manchester Road
Silver Spring, MD 20901
South Four Corners Citizens Association
Karen Michels, Acting President
9904 Rogart Road
Silver Spring, MD 20901
Stonecrest-Wood Crest Civic Association
Leroy Faringer, President
12813 Stonecrest Drive
Silver Spring, MD 20904
Timber Hill Civic Association
George Krouse, President
4540 Dustin Road
Burtonsville, MD 20866
Stonehedge Condo
Martha Cardona, President
12110 Cliftondatle Drive
Silver Spring, MD 20904

## COMMUNITY ORGANIZATIONS FOR U.S. 29 (Continued)

White Oak Area Civic Coalition
William Tate, President
12901 Broadmore Road
Silver Spring, MD 20904
Woodmoor-Pinecrest Citizens Association
Mike Pfetsch
9906 Indian Lane
Silver Spring, MD 20901
Woodside Forest Civic Association
William Morice, President
1709 Corwin Drive
Silver Spring, MD 20910

CITIZEN ADVISORY COMMITTEE FOR U.S. 29
Mr. Ralph Bennett
Northwood-Four Corners Civic Association
115 Southwood Avenue
Silver Spring, MD 20901
Mr. Micheal Fisher
Fisher-Suburban Construction Company
10020 Colesville Road
Silver Spring, MD 20901
Ms. Barbara Forest
White Oak Area Civic Association
301 Willinton Drive
Silver Spring, MD 20901
Mr. Tony Hauner
Indian Spring Citizens Association
203 Brewster Avenue
Silver Spring, MD 20901
Mr. Fred Howlin
The Corner Pub
10111 Sutherland Road
Silver Spring, MD 20901

## CITIZEN ADVISORY COMMITTEE FOR USS. 29 (Continued)

Mr. George Krouse
Timber Hill Civic Association
4540 Dustin Road
Burtonsville, MD 20730
Mr. Edward Lynch
Rolling Acres Homeowners' Association, Inc.
P.O. Box 4757

Silver Spring, MD 20904
Mr. Dale Mangum
Bell Flowers
8201 Georgia Avenue
Silver Spring, MD 20910
Mr. Tony Marva, Manager
Government \& Community Relations
C \& P Telephone
1738 Elton Road, Suite 220
Silver Spring, MD 20903
Kelley L. Rexroad, Manager
Public Relations \& Employee Services
The Singer Company
11800 Tech Road
Silver Spring, MD 20904
Ms. Kitty Roberts
Tri-Community Group
11915 Old Columbia Pike
Silver Spring, MD 20904
Mr. James Tavel
Linowes \& Blocher
8720 Georgia Avenue
Silver Spring, MD 20910
Ms. Ilene Wieselthier
Burnt Mills Manor Civic Association
10901 Oakwood Street
Silver Spring, MD 20901

Comments and Coordination

## VII. COMMENTS AND COORDINATION

## A. PUBLIC INVOLVEMENT

Public participation was an important part of the study, and thus was initiated early in the DEIS study process to allow incorporation of public concerns into the development of project alternatives. An introductory review meeting was held on February 6, 1986, with interested parties in Montgomery County. The purpose of the meeting was to afford SHA an opportunity to brief the Community Associations on the U.S. Route 29 Project Planning Study prior to the Alternatives Public Workshop.

The Alternatives Public Workshop was held on March 1, 1986. This served as the first formal contact with the public. The purpose of the public workshop was to 1) acquaint interested persons with the project planning process, 2) present findings of the engineering, environmental, and socioeconomic studies, and 3) provide an opportunity for public involvement in the project planning process. The workshop offered the general public and special interest groups the opportunity to express their opinions and concerns. Photogrametric mapping depicting the various alternatives was on display, and representatives were available to answer questions and record comments. A brochure which highlighted key information and provided brief descriptions and maps of the alternatives was distributed at the workshop. The public was encouraged to participate in the workshop to ensure their input in the decision-making process.

A debriefing meeting was held on April 29, 1986, to determine which of the study alternatives should be carried forward for further study based on the results of the workshop.

A Citizen's Advisory Committee was established for the U.S. Route 29 project to gain valuable input from local citizens and businessmen throughout the study.

Input by citizens' associations and business organizations has been an important part of the process of evaluating the alternatives for U.S. Route 29. These groups have been invaluable in providing information from the perspective of the local resident and businessman. Numerous meetings have been conducted as a forum for analysis of the project alternatives by the citizens in the project area.

In addition, correspondence was received from Mr. Tony Hausner who represents the U.S. Route 29 Coalition. This group has expressed concern about the proposal to upgrade U.S. Route 29 to a commuter expressway with grade-separated interchanges and HOV lanes in the median. They requested an investigation of light rail be included in the DEIS.

The MD DOT compared the HOV transit-way proposal with a similarly operated light rail system between Silver Spring and Columbia in a report dated July 1988. The U.S. Route 29 Coalition examined this report and had taken exception with some of the judgments and costing procedures used. In September, 1988, the Coalition met with the MD DOT representatives and reiterated their concerns about the HOV transit way proposal and the light rail comparison. MD DOT officials affirmed their belief that the assumptions put forth in the July, 1988 report were reasonable and that they stood behind the conclusions of the report. Although there appears to be sufficient future patronage for support of either a light rail system
or an extensive transit way system, express buses operating on the HOV transit way is a more cost-efficient proposal within the time frame considered by the FEIS.

The following community organizations have provided input and comment on the proposed project:

Allied Civic Group<br>Burnt Mills Manor Civic Association<br>Burnt Mills Village Citizens Association<br>Calverton Citizens Association<br>Dumont Oaks Homeowners Association<br>Four Corners Business Community<br>Greater Colesville Citizens Association<br>Indian Springs Citizens Association<br>Maryland Association of Bicycle Organizations<br>North Hills of Sligo Creek Community<br>North White Oak Civic Association<br>Northwood Four Corners Civic Association<br>Paint Branch Park Condominium Association<br>Rolling Acres Homeowners Association<br>Seven Oaks-Evanswood Civic Association<br>Sligo Branview Community Association<br>Southeast Hebrew Congregation<br>South Four Corners Citizens Association<br>Timber Hill Civic Association<br>Trail Riders of Today<br>White Oak Area Civic Coalition<br>Woodmoore-Pinecrest Civic Association<br>Woodside Civic Association<br>Woodside Forest Citizens Association<br>Woodside Park Civic Association

## B. PUBLIC HEARING COMMENTS

The following is a summary of comments solicited at the Combined Location/Design Public Hearing for the proposed improvements to U.S. Route 29 from Sligo Creek to the Howard County Line that was held on January 25, 1989, at Norwood High School in Silver Spring, MD. The purpose of the meeting was to acquaint the public with the progress of the project and to present the findings of the engineering and environmental studies to date. It was also an opportunity for all interested persons to present their views regarding the location and design of the project. About 370 citizens attended the hearing with approximately 75 individuals, interested organizations, and local officials presenting oral and written testimony.

## Overview of Public Hearing Testimony

Most of the testimony presented at the public hearing reflected a strong opposition to the alternatives proposed for upgrading U.S. Route 29. While people acknowledge the need to
alleviate increasing traffic and congestion on U.S. Route 29, few wanted to accept any of the specific alternatives presented.

Among the major areas of concern voiced at the hearing included the following:

1. Safety seemed to be an overriding factor for many citizens. To accommodate their safety, several people argued for crossing lights at Prelude, Oakleaf, and Burnt Mills Drive. Members of the Dumont Oaks development, many of whom are Jewish, were concerned for their safety as they walk to the Synagogue every Friday night and Saturday and must cross U.S. Route 29.
2. Residents argued for keeping the median from White Oak to Four Corners. This makes it safer for people to cross the street.
3. Many argued for more sidewalks to help insure pedestrian safety, and lamented the fact that there would be only one pedestrian overhead walkway under Alternative C.
4. People seemed to have mixed feelings about HOV lanes (Alternative D). They are hard to enforce, and people often have difficulty finding people to carpool. On the other hand, some people favored HOV lanes because they believe it will encourage more carpooling, and is more cost-effective than a light rail system.
5. Many citizens urged their legislators and MD SHA officials to seriously consider light rail as a viable alternative to increasing actual road capacity and as a motivation for people to use public transportation as opposed to automobiles.
6. People are concerned that the expressway is going nowhere. While the project area officially ends at the Sligo Creek Parkway, many people believe that the bottleneck of traffic already in existence there will just be pushed southward into the City of Silver Spring.
7. Most citizens were opposed to the underpass at Four Corners. Those who were in favor of that alternative (Alternative C) favored the jug handle lanes at that intersection.
8. Another major concern expressed by many residents was cut-through traffic through residential streets, spurred by the rerouting of left-turn traffic from U.S. Route 29 into various neighborhood streets. Traffic could also be rerouted into residential streets during construction of the highway improvements.
9. People are also concerned about the potential impact to businesses during the construction period, estimated to be as long as four and one-half years for one alternative (Alternative C).
10. Finally, people are concerned that the proposed widening of the Sligo Creek Parkway will impact Sligo Creek Park. They do not want any parkland to be taken for the project.

A list of Public Hearing comments and responses is being prepared.

## C. AGENCY INVOLVEMENT

In accordance with implementation procedures of the National Environmental Policy Act (NEPA), the following agencies were contacted to provide information or input in particular discipline areas:

Board of Education of Montgomery County Metropolitan Washington Council of Governments<br>U.S. Army Corps of Engineers<br>U.S. Environmental Protection Agency<br>U.S. Department of Agriculture, Soil Conservation Service<br>U.S. Department of Interior, Fish and Wildlife Service<br>Maryland State Health Department, Office of Environmental Programs<br>Maryland Department of Natural Resources<br>Washington Suburban Sanitary Commission Maryland Historical Trust<br>Maryland-National Capital Park and Planning Commission

A summary of all responses received through the coordination process is provided within this section. Copies of correspondence are also included at the end of this section.

This FEIS will be circulated to all agencies, organizations and individuals by MD SHA.

## JANUARY 25, 1989 COMBINED LOCATION/DESIGN PUBLIC HEARING - COMMENTS AND SHA RESPONSES

The following are comments from the general public recorded from transcripts of the Combined Location/Design Public Hearing held on January 25, 1989 for the proposed improvements to U.S. Route 29. Approximately 70 persons and/or organizations presented testimony.

Delegate Dana Dombrow, Member of House of Delegates - Legislative District 20:
No grade separation at Four Corners. Favors jug-handle design. Keep median strips. Also wants urban design characteristics incorporated into any road modifications egg. sidewalks along Route 29.

## SHA Response:

The at-grade solution was selected that includes sidewalks to assist pedestrian movements. Options to remove median strips were dropped from consideration.

Delegate Hank Heller - Member - Maryland General Assembly:
Proposes two intercounty bus loops in eastern Montgomery County and Western Prince George's County. Believes loops will have positive economic development effects and environmental benefits.

SHA Response:
MD SHA is continuing to study mass transit in cooperation with Montgomery County. These studies include bus transit (See Section II.E.4).

Dr. Margarie Barrett:
Believes median strip removal will cause an increase in auto accidents. Questions enforceability of HOV lanes. Against rerouting of left turn traffic from Route 29 to Dumont Oaks. This will put a lot of traffic on residential streets.

SHA Response:
Options to remove median were dropped from consideration. HOV lanes were dropped from consideration. The selected improvements do not promote neighborhood cutthrough traffic.

James R. Sullivan, Resident:
Believes truck traffic from I-95 will increase on Route 29 as a result of construction. What effect will the ICC have on Route 29. Way of life and businesses at Four Corners will be adversely affected by construction.

SHA Response:
The MD DOT, Montgomery County, and Prince George's County are beginning a new study of the Inter County Connector project. Alternatives for the ICC project are being evaluated. Construction of the proposed improvements at Four Comer will adversely affect the Route 29 corridor; however, mitigation measures, as identified in Section IV Environmental Consequences will be implemented to minimize these impacts.

Carol Cremonese:
Concerned with rapid pace of development near Lockwood Drive. Also concerned about relocation of family business if Alternative C-Concept 3, 4, or 5 is selected. Believes Alternative C would be very expensive and cause great distress to commerce.

SHA Response:
Proposed improvements at Lockwood Drive were dropped from consideration.
Dr. Stan Truman, Vice President - Dumont Oaks Association:
Wants light at Prelude Drive and Route 29, a pedestrian overpass near Oak Leaf Drive, and sidewalks. Opposes Route 29 plan.

SHA Response:
A traffic signal has been installed at Prelude Drive. The only recommended improvements along U.S. Route 29 south of MD 650 include at-grade improvements at Four Corners.

## Patrick Zilliacus, President - Avonshire Homeowners Association

Opposed to Alternative C-2 and D-3-2 at Briggs Chaney Road. These concepts require the destruction of 38 homes. Believes Alternatives C-2, C-4, C-6, and D-3 options 2,4, and 6 will increase the number of vehicles using private streets.

SHA Response:
These alternatives were not selected, Alternative C-5 was selected. The selected improvement does not promote neighborhood cut-through traffic.

Gabor Karafiath:
Opposed to grade separation intersection at Four Corners. Wants to keep median. Wants to maintain ability to make left turns off Route 29 into Woodmoor Community. Believes four-leaf clover intersection onto beltway at Route 29 and University Boulevard have not been completed, and believes they should be.

SHA Response:
The at-grade solution, Alternative C-6 Modified, was selected. Options to remove median strips were dropped from consideration.

Jerilyn Ray-Shelley:
Concerned about bottleneck that will be created at Sligo Creek Parkway.
SHA Response:
No improvements were selected in the Sligo Creek Parkway area. They have been deferred until development rates and patterns have been more clearly defined. See Section II.D.

Rabbi Winter, Southeast Hebrew Congregation:
Fears that if median taken out, young children will not cross street unless there is an overpass. Wants light at Prelude Drive.

## SHA Response:

A traffic signal has been installed at Prelude Drive.
Joan Lehrhaupt, Dumont Oaks, Resident:
Wants light at Prelude Drive and sidewalks. Wants to keep median.

## SHA Response:

Removal of median strips were dropped from consideration. A traffic signal has been installed at Prelude Drive.

## Ellen Shames, Resident:

Sidewalks need to be constructed along Route 29. Traffic light needed at Prelude Drive. Overpasses needed in some sections of Route 29.

## SHA Response:

The at-grade solution at Four Corners would have beneficial effects on pedestrian movements within the corridor by providing sidewalks on both sides of Route 29 within the limits of Four Corners proper. A traffic signal has been installed at Prelude Drive.

Faiga Kanovsky, Resident:
No specific comments.
SHA Response:
No response needed.
Bob Dalrymple, Attorney for owners of Kay Tract:
Urging SHA to make decision on Four Corners so he can proceed with development plans for Kay Tract.

SHA Response:
The at-grade option, Alternative C-6 Modified, was selected.
Tom Faringer, Stonecrest/Woodcrest Civic Association:
Requested that alternatives at Four Corners, D-3-2; Randolph Road, Musgrove Road, and Fairland, D-3-1; Briggs Chaney Road, D-3-2; and MD 198, D-3-3, be selected.

SHA Response:
Selected Alternative C-6 Modified at Four Corners; Alternative C-4 with Modifications at Randolph, Musgrove and Fairland Roads; tight diamond interchange at Briggs Chaney Road; and Alternative C-3 at MD 198.

Clayton Englar:
Indicated that planning to curb development will reduce or alleviate traffic congestion.
SHA Response:
Measures have been taken by Montgomery County to curb development due to the existing traffic congestion. Traffic flow will be improved with the proposed improvements.

## Gerald Hercenberg, Resident:

Does not want grade separation on the proposed southbound ramp at Lockwood Drive. Alternative C-3, C-4, and C-5 are not justified.

## SHA Response:

Proposed improvements at Lockwood Drive were dropped from consideration.

## Clair Connors:

Against Alternative C - Concept 2 and Alternative D - Concept 3, Option 2 which will destroy 38 homes. Also worried about decrease in property values in her community (Avonshire).

SHA Response:
These alternatives were not selected.

## Robert Toners, Resident:

Feels MD SHA is discriminating against middle-class homeowners at Avonshire. Alternatives C-2 and D-3-2 at ICC should be eliminated. Is against all alternatives.

SHA Response:
The alternative selected for the Briggs Chaney Road was the tight diamond interchange as shown in Alternatives $\mathrm{C}-1, \mathrm{C}-3$, and $\mathrm{C}-5$ with modifications.

Mr. Steve Oseroff, Vice-President GPS Realty:
Representing Burtonsville Shopping Center - stated that concepts presented by MD SHA do not address access to existing businesses in Burtonsville area. Cites 1982 Montgomery County Master Plan which recommends building fringe parking lots and express bus service to increase capacity of Route 29. Favors Alternative B - Concept 1, which maintains at-grade intersection.

## SHA Response:

This alterative was not selected. Access to existing businesses will be maintained and enhanced.

Phillip A. Stevens, Partner - Burtonsville Office Park:
Alterative $\mathrm{B}-1$ is acceptable with minor modifications, and Alternative $\mathrm{D}-1$ and $\mathrm{D}-2$ would be most acceptable. Alternatives C-1, C-3, C-5, C-6, D-2, and D-3 are not acceptable alternatives.

SHA Response:
Alternative C-3 at MD 198 - Burtonsville, and a modified Alternative C-1 at Dustin Road were selected.

## Richard Reis:

Concerned about number of cars travelling on Route 29. Recommends HOV lane on Route 29. Also recommends sidewalks for bicycle riders.

## SHA Response:

Proposed improvements will lessen congestion and improve safety on Route 29. HOV lanes were dropped from consideration due to physical and economic constraints. Sidewalks are included in the selected alternative improvements.

William L. Honan, Vice President of Shemin Nurseries:
Request that any of the five (5) alternatives that affects the Shemin Nurseries be removed from consideration by MD SHA.

SHA Response:
Alternative C-3 was selected at MD 198 - Burtonsville.
H. Walter Townsend, Secretary-Treasurer of Burtonsville Nurseries, Inc.:

Imploring Maryland SHA to utilize existing alignment of Route 29 and improve access to Bell Road Nursery. Also recommends acceleration/deceleration lanes for median crossover to allow for stacking of cars that cannot be accommodated by median width. Also wants to add signals at Bell Road/Route 29 intersection.

SHA Response:
Alternative C-3 was selected in this area. Low traffic volumes and diversion of Route 29 traffic from this area did not warrant any traffic improvements at this intersection.

Paul McDonald, Northwest Branch Citizens' Association:
Opposed to closing of Hillwood Drive - shown in Alternate C - Concepts 3, 4, and 5. Wants Hillwood Drive to remain open and overpass alternative shown for Lockwood Drive be discarded as too disruptive.

SHA Response:
These alternatives were not selected. Alternatives for Lockwood Drive were dropped from consideration.

Victor Siegel, Resident:
It is too difficult to cross Route 29 at Dumont Oaks. The median strip should not be removed. Traffic light needed at Oak Leaf Drive and Colesville Road.

SHA Response:
Options to remove the median strip were dropped from consideration.
Jack Delman, President, Southeast Hebrew Congregation
Wants safer and improved access across Route 29 to synagogue, including sidewalks between Burnt Mills Avenue and Prelude Drive, a traffic light at Prelude Drive, and the preservation of existing traffic lights at Burnt Mills Avenue and Lockwood Drive.

SHA Response:
A traffic signal has been installed at Prelude Drive. No further improvements are recommended at this location.

Lois Siegel, Resident:
What is going to be done to make crossing the street at Dumont Oaks safe for pedestrians? Will the Dumont Oaks area need noise barriers?

SHA Response:
Median strips will not be removed. Noise barriers are not included in the proposed improvements.

Jeffrey Russell, Vice-President, Woodside Forest Civic Association:
Opposed to grade separated intersections, particularly at Four Corners. Opposed to the removal of median strips, and jug-handle traffic above Four Corners that will travel through established neighborhoods. Also opposed to the HOV plan. MD SHA should strongly consider the light rail study.

SHA Response:
Alternative C-6 Modified, at-grade option, was selected. Removal of the median was dropped from consideration. The selected improvements do not promote neighborhood cut-through traffic. HOV lanes were dropped from consideration. Light rail was dropped from consideration. See Section I.D.

Mary Robbins, Resident:
Median strip should not be removed. HOV lanes should be in the left lane only. Traffic light at Prelude Street should be installed.

SHA Response:
Removal of median strips and HOV lanes were dropped from consideration. A traffic signal has been installed at Prelude Drive.

Sandra Pasco, Resident:
Opposes jug-handle, with no sidewalks, at Crestmoor Drive. Opposes all alternatives, MD SHA should review their plans.

SHA Response:
No improvements are recommended at Crestmoor Drive.
Harry Sanders, Woodside Civic Association:
Association believes light rail should be reevaluated for the Route 29 corridor.
SHA Response:
The potential for a light rail corridor along Route 29 was studied. A report comparing a busway corridor to a light rail corridor was prepared. The high cost of construction and ongoing maintenance of a light rail facility along with the lack of appropriate sites for station and mode change facilities, and projected low ridership eliminated light rail as an alternative. Improvement and expansion of the existing busway facilities will achieve similar ridership at much lower expense. See Section I.D.

Michael Pfetsch, President of the Woodmoor Pinecrest Citizens Association:
Median strip should not be removed on Colesville Road. No HOV lanes through the Four Corners area. No jug-handle at Crestmoor Drive. Sidewalks should be built on both sides of Route 29, and cut-through traffic addressed.

## SHA Response:

Removal of median strips and HOV lanes were dropped from consideration. Proposed improvements at Crestmoor Drive were dropped from consideration. Sidewalks on both sides of Route 29 are included at Four Corners. The selected alternative does not promote neighborhood cut-through traffic.

Tony Hausner, Route 29 Coalition:
Prefer the jug-handle concepts rather than the expressway. Would like light rail studied further.

SHA Response:
The at-grade option was selected. The potential for a light rail corridor along Route 29 was studied. A report comparing a busway corridor to a light rail corridor was prepared. The high cost of construction and ongoing maintenance of a light rail facility along with the lack of appropriate sites for station and mode change facilities, and projected low ridership eliminated light rail as an alternative. Improvement and expansion of the existing busway facilities will achieve similar ridership at much lower expense. (See Section I.D).

Ed Simmons, Resident:
Supports the position of the Route 29 Coalition - the jug-handle alternative. Light rail needs to be studied in greater detail.

SHA Response:
The at-grade option was selected. The potential for a light rail corridor along Route 29 was studied. A report comparing a busway corridor to a light rail corridor was prepared. The high cost of construction and ongoing maintenance of a light rail facility along with the lack of appropriate sites for station and mode change facilities, and projected low ridership eliminated light rail as an alternative. Improvement and expansion of the existing busway facilities will achieve similar ridership at much lower expense. See Section I.D.

Karen Michaels, South Four Corners Citizens Association:
Association does not want an underpass at Four Corners. Median should not be removed. In favor of an in-depth study of light rail.

SHA Response:
Alternative C-6 Modified, the at-grade option, was selected. Median strip removal was dropped from consideration. The light rail study was reevaluated and was deemed to be economically infeasible due to projected low ridership and lack of sites for stations and mode change facilities.

Gerald Lane, President of Northwood-Four Corners Civic Association:
In favor of the jug-handles, not in favor of the tunnel. Would like to keep the median and are not in favor of HOV lanes. Object to cut-through traffic from construction.

SHA Response:
The at-grade option was selected. Median strip removal and HOV lanes were dropped from consideration.

Liz Symonds, Resident:
Construction will cause major cut-through traffic to occur around Four Corners. Believes the underpass is not a solution, it will create traffic jams and not encourage use of mass transit. Against widening of Leighton Avenue to 2 lanes.

SHA Response:
Alternative C-6 Modified was selected at the Four Corners area.
Senator Ida Ruben:
Request a light be installed at Prelude Avenue. Provide sidewalks along Route 29, if necessary, pedestrian overpasses.

## SHA Response:

A traffic signal has been installed at Prelude Drive. The at-grade solution was selected that includes sidewalks to assist pedestrian movements along Route 29 in the Four Comers Area.

## Ross Capon, Action Group for Transit:

The group thinks that Light Rail Transit would be more beneficial than an all bus system. Against new construction if it does not solve traffic congestion.

## SHA Response:

MD SHA is continuing to study mass transit in cooperation with Montgomery County. (See Section I.D. and II.E.4.)

## Charles Wolff, President of Seven Oaks Evanswood Citizens Association:

Association does not want 5 or 7 lanes on Sligo Creek Parkway at the Colesville Road intersection. Want the median strip to remain. Keep left turn from Colesville Road during rush hour (alleviates cut-through traffic). Improve jug-handles - delete underpass.

## SHA Response:

Alternative C-6 Modified, at-grade option, was selected at Four Corners. Median strip removal was dropped from consideration.

Timothy Close, Resident:
Light needed at Prelude Drive and Route 29.
SHA Response:
A traffic signal has been installed at Prelude Drive.

## Joan Ennis, Allied Civic Group Board: <br> No specific comments.

SHA Response:
No response needed.
Frank Mahlman, Resident:
Asks that MD SHA support the No-Build strategy for the Route 29 project.
SHA Response:
The No-Build Alternative was not selected because it would not meet the project purpose and need.

Susan Chavarria, Seven Oaks Evanswood Citizens Association:
Concerned about cut-through commuter traffic caused by Route 29. Money should be spent on mass transit rather than road construction. Light rail should be looked at in more depth.

## SHA Response:

The selected improvements do not promote neighborhood cut-through traffic. MD SHA is continuing to study mass transit in cooperation with Montgomery County. Light rail was eliminated from consideration. See Section I.D.

Robert Boone, Save the Anacostia River:
Seriously doubts this project will improve traffic congestion. Also doubts the project will have only minimal impacts to surface waters (Sligo Creek, Paint Branch, Little Paint Branch and Northwest Branch). No mention of stormwater controls.

## SHA Response:

During the construction phase, strict erosion and sediment control measures will be implemented, as approved in the Final Erosion and Sediment Control Plan. Stormwater runoff would managed under MD DNR's Stormwater Management Regulations.

Dave Povtek, Resident:
MD SHA has provided no assurances that improvements to Route 29 will cure congestion problems or where the traffic goes after it passes Sligo Creek Parkway. Light rail study was not a truly unbiased study - needs to be reviewed.

## SHA Response:

Traffic flow will be enhanced with the selected improvements. Light rail was reevaluated and dropped from consideration due to cost and availability of mode stations. See Section I.D.

Mark Dreyfuss, Tartan Ridge Subdevelopment:
Supports the Route 29 Coalition. The median is the only safety zone along the corridor and must not be removed. Need pedestrian rights-of-way.

SHA Response:
Removal of median strips was dropped from consideration. Proposed improvements include sidewalks to assist pedestrian movements.

Ilene Wieseltheir, Burnt Mill Manor Civic Association:
Opposed to Alternative C at Burnt Mills. Alternative D-3-1-3 is the preferred alternative of Burnt Mills Manor residents. Sidewalks need to be constructed if the median strip is removed. Traffic lights must remain on Route 29.

SHA Response:
This alternative was not selected.
Bret Rouilier, Resident:
No park-and-ride lots have been proposed for Route 29. Light rail has not bee given a just investigation. The jug-handle and underpass proposals will not solve the traffic problems at Four Corners.

## SHA Response:

MD SHA is continuing to study mass transit in cooperation with Montgomery County. Light rail was dropped from further consideration. See Section I.D.

Hugh Jones, Hillendale Citizens Association:
Do not favor an underpass, it will have a negative effect on traffic. Will promote cutthrough traffic. Support other alternatives such as light rail.

SHA Response:
The Alternative C-6 Modified, at-grade option, was selected at Four Corners. Light rail was reevaluated and dropped from consideration. See Section I.D.

Bob Bachman, President North Hills of Sligo Civic Association:
Opposed to the removal of the median for safety reasons. Overhead walkways will serve as barriers to a segment of the population.

SHA Response:
Removal of the median strip was dropped from further consideration. Proposed improvements will enhance pedestrian movements and safety.

Michael Mullins, North Hills of Sligo Civic Organization:
The proposed expressway will be detrimental to the environment of residential neighborhoods. This project will also pose safety problems. Will create traffic problems. Does not support an underpass at Four Corners. Mass transit (ie. light rail) should be considered further.

## SHA Response:

Selected alternatives will enhance quality of life and safety for pedestrians and commuters. MD SHA is continuing the development of mass transit alternatives with Montgomery County (See Section II.E.4). Light rail was studied and dropped from consideration. See Section I.D.

## Joyce Benson, Resident:

Opposed to Alternatives C and D. Construction would cause additional cut-through traffic, increases noise and pollution. Favors jug-handle configuration.

SHA Response:
Alterative C-6 Modified was selected. Mitigation measures will be implemented to reduce impacts that result from project construction.

## Darren Morgan, Coalition to Keep Traffic Flowing but Use Common Sense:

SHA should look at using HOV lanes and leaving Route 29 intact.

## SHA Response:

HOV lanes were dropped from consideration due to physical and economic constraints.
Vatu S. Patel, Resident:
Not enough space to construct an interchange at Route 29/193 intersection. Opposed to any improvements to Route 29 south of New Hampshire Avenue. Opposed to removal of median strip.

SHA Response:
Alternative C-6 Modified was selected. Removal of the median strip was dropped from consideration.

Bernice Schwartz, Resident:
An HOV lane on Route 29 will decrease traffic safety in Oak Leaf and Prelude Court.
SHA Response:
HOV lanes were dropped from consideration due to physical and economic constraints.
Michael Mullins, North Hills of Sligo Association:
Question to the panel about hearing process and if anyone is listening to testimony presented.

SHA Response:
The public hearing process was described in detail.
Wayne Mitchell, Resident:
How did this process (Route 29 project) get started and who decided it should be done.

## SHA Response:

U.S. Route 29 was identified as a corridor that had very serious traffic congestion problems through technical data developed by MD SHA, and in consultation with County elected officials.

Robert Corbett, Resident:
Would like to know how the Project Planning Team is going to vote on the Route 29 project.

## SHA Response:

The purpose of the public hearing was to record public comment on the proposed alternatives. The Project Planning Team in attendance were not present to announce or speak of their preference for any of the Route 29 alternatives.

Dr. Joe Margolin, Democratic Chairman of Precinct 1311:
No specific comments were made about the proposed Route 29 project alternates.

## SHA Response:

No response needed.
Dr. Carl Zofco, Resident:
Improvements would increase cut-through traffic around Eastwood and University Blvd.
SHA Response:
Proposed improvements would not increase cut-through traffic along Route 29.
Stephen Hotsgo, Resident:
Indicated SHA engineers have done a good job on the Route 29 project.
SHA Response:
No response needed.
Charles Pritchard, Resident (for Paul Boudreux):
Route 29 improvements will degrade the community until it becomes a "slum".

## SHA Response:

The selected improvements will enhance public safety, pedestrian movements, and benefit local commerce.

## Darren Morgan, Resident:

No specific comments relating to Route 29 improvement project.

## SHA Response:

No response needed.
Wayne Mitchell, Resident:
Synchronization of lights on Route 29 could help to alleviate congestion, and other smaller solutions rather than massive construction projects.

## SHA Response:

The selected improvements will alleviate congestion to an acceptable level.
Marion Daniels, Resident:
Signal lights cause a lot of congestion on Route 29 , especially turning signals at University Blvd.

SHA Response:
Alternative C-6 Modified, at-grade option, was selected.

##  <br> H10\% 21 1988

9304 Colesville Read

Silver Spring, MD 20901
16 November 1988
I plan to attend the meeting on November 30.
Director, office of planning and Praliminary Engineering State llighway Administration P. O. Box 717

Baltimore MD 21203-0717
Sincerely,


Dear Mr. Pedersen:
Re: The 9 Novembier 1988 Public Notice concerning Route 29
I have lived at Colesville Road and Sligo Creek Parkiay for almost nine years and do desire to provide comments and recommendations concerning thia project. First, if you want to avoid traffic backups then keep traffic moving. Traffic lights in Montgomery county are adjusted to keep traffic speed down and the county publically admitted so a few years ago. You can thave both. Oddly enough, if you aak the people who speed in Nontgomery
County (when they can), why? the answer is that $8-9$ miles over the County (when they can), why? the answer is that g-9 miles over the speed limit will get you through a lot of traffic lights that
driving the speed limit won't. to further exacerbate the driving the speed limit wont. To further exacerbate the situation, the traffic lights now inatalled change frequency after
several days. Readjust all of them on Coleaville Road today and in 2-3 days they will be out of aynchronization.
Recommendation: Install state-of-the-art traffic lights on Route 29 and adjust them to keep the traffic moving.
evidenced bydening Route 29 seems to be the State's panacea as can maka it 12 lanes wide if you want but unless the State/County intends to purchase all of the houaes on one side of Route 29 from New llampshira Ave, to Georgia fve.. then forget it! The median from New llampshire Ave. to Sligo Creek Parkway will gain one reversible lane but $I$ have seen rush hour traffic backed up from Georgia Ave/ Fenton St., ect., past Dale Drive. Now, so what will happen to the cars? The answer is obvious. They will back up to Four Corners!
Recommendation: Convert the median to a North or South lane and install light rail or metro train on the East or West side of Route 29. (At a recent meeting I was told this was impractical because how would people cross the street without expensive pedestrian overpasses? I say, the same way that people riding the metro busses cross the street today. if that's dang

I really hate to say this but the traffic planning and implementation $I$ have observed in the nine years I've lived in Nontgomery County haven't been very impressive. Since I live in Silver Spring and wark travell. I certainly hope this project is better planned.
$\frac{2!}{\text { Richard } H \text {. Trainor }}$

Secratory
Hal Kassoff
Adminimetor

## Maryland Department of Transportation State Highway Administration

December 5, 1988

Mr. William C. Buckley
9304 Colesville Road
Silver Spring, Maryland 20901
Dear Mr. Buckley:
This letter is in response to your recent correspondence regarding our Project planning study on US 29 (Colesville Road) between siigo creek and the Howard County Line at the patuxent River. I appreciate the comments you have provided about the planning study and traffic conditions on colesville Road.

The traffic signals along Colesville Road are indeed controlled by Hontgomery County Department of Transportation as are all of the signals on state routes in that county. They are in the process of inter Rockill Operations Due to the current congestion at four corners, the reality of such timing may be impossible. If there are one or two signals that appear to be inconsistently timed, please bring them to our attention.

The lanes currently being added to US 29 south of Burtonsville are part of a special project funded by the state Highway Administration and the Montgomery County Department of Transportation to provide a six-lane divided highway between MD 650 and MD 198. These additional lanes are included in the nobuild alternative of our project planning study. They are being constructed to correct deficient traffic operations in the northern portion of US 29. None of the build alternatives in the study propose any additional outside lanes south of MD 650. The lane proposed for the median is a reversible high occupancy vehicle (HOV) lane. During the morning and evening peak periods. it will be restricted to express buses and vanpools. Current local bus service will continue to operate in the curb lanes.

Mr. William C. Buckley Page Two

Although not specifically addressed in our study, the feasibility of constructing a light rail line along US 29 was investigated by the office of Transportation Planning. Their system, labeled as alternative $D$ in proposed HOV/Transitway were considered in the comparison in our study. Many variables Transitway was in the comparison which determined the HOV/ enclosed a copy of cost effective than light rail. I hav
Hent --tret leauing?

Again, thank you tor your comments. If you have additiona questions you may address them to me or to Mr. Randy Aldrich the project manager for this study

Very truly yours.

## noil of redesur

Neil J. Pedersen, Director Office of Planning and Preliminary Engineering

NJP/in
Attachment
cc: Mr. Michael Snyder Mr. Louis H. Ege, Jr.
$\qquad$ .

oi North Celvert SI.. Baillmora, Marylend 21203-0 17

3839 Dustin Road Burtonsville, MD 20866 IVED Office of Plannling and Proliminary Engineering
, ' -1988 Box 717
Baltlmore, MD 21203
Dear Sirs: Puin....

The following comments are in regard to Contract No. M 425-101-370, US Route 29, Sligo Creek to the Patuxent River, PDMS No. 152019. They are a result of attending the dlsplay review at Northwood Hlgh School in Silver Spring.

The enclosed sketch shows another combination of Md Route 198 (Spencerville Road and Dustin Road lntersections with US 29. It assumies that US 29 will be stralghtened through the reglon that lncludes these two intersections and that Dustin Road wlil cross above US 29. Rather than brlng northbound traffic on US 29 that desires to turn onto 198 via an underpass (Alt. D, Con 3, Optlon 3) under US 29 snd lnto the old intersection, thls traffic would onter 198 east of the US 29 overpass as in Alternative $C$, Concept i. A grade crossing of left turn traffic at this polnt would iiminate the extensive westbound loop ahown in Alt. C, Con. 1.

Md 198 traffle golng north on US 29 could turn onto an onramp directly rather than via old US 29 and Dustin Road, though the latter optlon would remain.

Northbound traffle on US 29 for Dustin Road could exit on a short offramp Just before reaching Dustin Road.

Southbound trafflc would be hsndled as per Alt. C, Concept 1.

## ADVANTAGES:

1. Very little right of way would be required other than that assumed for the straightening of US 29. The blend space between the northbound on-ramp from 198 and the off-ramp to Dugtin Road should be adequate.
2. There would be posaibllity of bypasaing accidents occurrling in the ragion that alght block the main highway. 3. Local trafflc routing would be flexible. There would be two methods of getting northbound from 198 to US 29 and two way to got to Dustin Road. Both of these choices
3. Because of miniaal right of way acquisition, reduced ramp lengths, only essentlal brldge structures, and little, if any, retaining wall construction, the overall cost should betowards Since the cost of an overpass seems to be about $\$ 5,000,000$ (Dustin

Road?*) the proposed plan construction should be less than that for Alt. D. Con. 3, Op.3. The land scquisltion should be less than for Alt. C, Con. i,

## DISADVANTAGE:

The access to 198 from US 29 would be partlally signal controlled, but this is not a serious fault since 198 csnnot be a high speed highway where it passes through Burtonsville. The asibound turn onto 198 from US 29 would be uncontrolled ss would the westbound 198 exlt to US 29.

Flnally I do not see why the southbound access ramp to US 29 from 198 should not use existing pavament unless the grsde of the new US 29 will be conslderably below the old US 29 at the polnt of Juncture. Also, it is possible that the northbound ramp off-ramp to 198 . Blackburn Road traffic heading north on US 29. would then cross 198 at grade.

Though probably not the cheapest alternative, this proposal seems to include many desirable features at reasonable cost.
Sinceroly yours,
*It is not clear whether the cost of the Dustin Road alternatives include straightening the mile of US 29 between Dustin Road and MD 198.



Mr. Robert S. Price
3839 Dustin Road
Burtonsville. Maryland 20866
Dear Mr. Price:
This letter is in response to your correspondence of December 9 th, regarding our project planning study on us 29 in Hontgomery county. I appreciate the recommendation romodify Alternative D-3-3 at Burtonsville with diamond-type interchange we will give your proposal full consideration in the further development of the study alternatives.

While your proposal provides more desirable eccess between MD 198 and US 29 , it does require more right-of-way displacements at MD 198.

It also requires two relatively closely spaced signalized intersections along MD 198 . It would also preclude ending the high occupency vehicle lane underneath the us 29 overpass of MD 198. Alternative D-3-2. Which was a similar proposal, was deleted for these reasons earlier in the study process. our major objective with alternative D-3-3 was to relocate mainline US 29 along the master plan alignment with a minimum of displacements. is full access between US 29 and MD 198 can also be retained, we teel che alternative has many advantages.

In Alternatives D-3-1 and D-3-3, the ramp from MD 198 to southbound US 29. is shown on a new location, rather than using existing pavement, to maximize the weave distance to ramps proposed at Blackburn Lane. Also, we prefer ancillarily usege of our right-of-way only along one side or the other. Usage within the median is not desirable. If this were to someday become excess property. we could dispose of it without granting access to it from our roadway.

As clarification, the cost associated with relocating the mainline of us 29 is iumped into the grade separation alternatives at MD 198. At Dustin Road. the grade separetion alternative. although mated to the proposals at MD 198, reflect only Dustin Road costs.

Fichard H. Trainor Secratory
Hal Kassoff
Adminiatratior

Mr. Robert S. Price Page Two

I want to thank you for your interest in the highway development process as it relates to this scudy. please contact ne or the project ranager. Mr. Randy Aldrich, if we can provide further assistance. Randy's telephone number is (301) 333-1139.

## Very truly yours. <br> Macil foteum

Neil J. Pedersen, Director ffice of Planning and Preliminary Engineering

NJP/in
cc: Mr. Michael Snyder Mr. Louis H. Ege, Jr.

PROJECT
state highway administration evelophe：！t QUESTIONS ANDIOR COMMENTS CH：＇S：C：1

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CONTRACT NO．M 425－101－370
US ROUTE 29
EK TO THE PATUXENT RIVER

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| November 30，198s | Public Hearing |
| January 25，1988 |  |

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Maryland Department of Tonsportation
State Highway Administration

Ricnard H．Trainor Sectratery Hal Kaceof
Adminitrator

Mr．Bretr Lazerus
14215 Castlemoor Court Burtonsville，Maryland 20866

Dear Mr．Lazerus：
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county．Your comments are appreciated and will be given thorough consideration in the selection of a recommended alcernarive．

Alternative $D$ ．Concept 3．Option 1 is the same as Alternative C．Concept 1 at Greencastle Road，except for the provision of the cwo－lane HOV roadway in the median．Accordingly，chere would be no additional right－of－way required to provide these HOV lanes．

This HOV alternative was developed to provide the most llexible transit service available．The incroduction of an hov flexible rransit service available．The development of light rail or similar concept within the US 29 corridor．

I would like to thank you for your interest in the highway development process as it relaces to the US 29 planning study． development process as it rease contact us again if you have any further questions or comments．

Very rruly yours．
Louis H．Ege，Jr．
Deputy Direcror
Project Development Division


LHE／AHS／ih
ce：Mr．Micheal Snyder

My tolephone number is 13011 ＿333－1139
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CONTRACT NO. H 425-101-370
US ROUTE 29
sligo creek to the patuxent river
PDMS NO. 152019

I/We wioh to comment or inquife abdut the following especte of inle prolecs:
 - car pools lanes carry fer mere people than comparable traflic lanes. Thigy move them frester then anrestricted lanes. There ore, they provide a
strong incentire for peeple to ex pool and use. streng incentire for peo
Although there was ae mention of rejional air pollation as a Sucter in weighing which alteraatire to choose, our area does sexfer from sereve air pollution, mostly euring the sammer, In the $D C$
areu most air pellution is from entometire exhensts aren most air pellution is from entometive exhasts.
Car pol lanes, oy eneoureging people to not drive by themselves tends to leissej air pollution. Finnaly, I 1 ce to note thet there is no pedestrian/bike path or even sidewalk between four corners and white $O_{0} K$. The addition of a path would provide for the sa fety of suclists and pedes trians and would add

## an Pieese fid myfour nomela) io ine Méling Lisi.*

## $\square$ Piease delete my/our nemoles lrom the Mailing Lisi.

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on the project Malling Lisi.

Mandand Department of Transportation
nichord H. Treino Richerd
Secretery Hol Kassoff Administrator

Mr. Richard Reis
711 Copley Lane
Silver Spring, MD 20904
Dear Mr. Reis:
This letter is in response to your recent correspondence pertaining to the project planning study of us 29 in Montgomery County. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative.

We appreciate your support of Alternative $D$ for the corridor. The primary concern of the study was to effectively transport people, not necessarily private automobiles. Institutrans of high occupancy vehicle (HOV) lanes does not preclude dev of high of another form of transit in the future and, therefore, provides a rather flexible solution to the rraffic congestion problems on US 29

Throughout the study, air and noise analyses were completed and compiled in the Draft Environmental Document (DEIS) which is available for public review at most of the local libraries. An availation exth the development of the specific Hov system. But $I$ agree, if whe region were to develop a functional system of HOV facilities. it could have beneficial effects on air pollution.

As part of Alternative $D$, sidewalks will be added to join the segmented sections which exist today between Sligo Creek Parkway and MD 650. In addition, there are pedestrian overpasses proposed at Granville Drive, Lorain Avenue and Oak Leaf Drive. These overpasses were strategically placed so that combined with the remaining signalized intersections, a pedestrian would have to Halk no more than three blocks to sately cross Colesville Road.

My telephone number is (301)_ 333-1139___
Telen ypewriter tor Impalred Mearing or Spaech
 383-7555 Batlmore Matro - 585-0451 D.C. Merro - 1-800-482-50e2 Stac

## Mr. Richard Reis

Page Two

I would like to thank you for your interest in the highway development process as it relates to the US 29 corridor study please contact us again if we can be of further assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Directior
Project Development Division

- by:


LHE/AHS/in
ce: Mr. Michael Snyder

CONTRACT NO. M 425-101-370
US ROUTE 29
Sligo creek to the patuxient river
PDMS NO. 152019

fwe wish to comment or inquire about the following aspecta of thiaprolect:


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Please delele my/out nemels) Irom the Melling List.
*Persona who have recelved copy of the brochure through the mall ere alroedy on the project Melling List.

Maryand Depantment of Transportation
State Highway Administration

1s. Mary Ring Lyon
0707 Glenwild Road
Silver Spring. MD 20901
Dear Ms. Lyon:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative

The proposed grade separation is considered the most feasible solution to the traffic problem which exists at four corners. Other options at this intersection do not totally solve the congestion conditions. At best the at-grade proposal operates at level-of-service "F" in the designyear. 2015. Todays peak hour congestion conditions provide an indication of with traffic flows. If. the grade separation were provisions for an HoV lane (alternatio service "D" in the year wols Colesville Road 2015. This impriversity Boulevard.

Along with the widening of the approach lanes on sligo creek Parkway, and the "Transportation Management District Plan" in downtown silver Spring, as conceived by Montgomery County,it is anticipated that the traffic congestion downstream of Four Corners will be no worse than it is today. Prohibition of left turns, parking restrictions, carpool incentives and increased pedestrian access will promote the transit serviceability of the US 29 corridor.

The retaining wall, which is necessary in the southwest quadrant of the proposed grade separation at Four Corners has been modified to allow for approximately 250 additional feet of weaving area. The lengthened weave section would meet design criteria and should not be a safety hazard.

My telephone number is $13011 \quad$ 333-1139____


Ms. Mary King Lyon
Page c wo

Thank you for your interest in the us 29 planning study. please contact us again if you have any further questions or comments.

Very truly yours.
Louis H. Ege, Jr
Deputy Director
Project Development Division
by: $\frac{\text { Randy Aldrich }}{\text { Rad }}$ A Ads.
Project Manager
LHE/RHS/ih
cc: Mr. Michael Snyder


31 December 1980
Randy Aldrich
Maryland Department of Transportation
State Highway Admlnistration
fflee of Planning and Preliminary Engineerling
P.O. 日ox 717

Baltimore, Maryland 21203-0717
Re: Contract No. HO 425-101-370, PDMS No. 152019 Avonshira Community

Dear Mr. Aldrich

We recently received your Alternatives Dlsplay Review document, and submit this letter in response to $1 t$, and the 1 tems presented at your alsplay on 30 November 1988 at the old Northwood High School. Qur comments are limited to the segment of U.S. 29 directly adjoining the A Avonshire community, in the vicinlty of Orlggs Chaney Road and the N

The Avonshlre Homeowners. Assoclation Board of Directors opposes unanimously:

Alternative $C$, Concept 2 ; and

- Alternative D, Concept 3, Option 2 .

These options, as described in your document, will require the destruction of 38 moderately priced (oy Montgomery County standards) residential units within our subdivision. The loss of these homes will negatively lmpact property values of the remainlng homes within Avonshire, and quality of life whin the community will decline. Presented in your document are several viable concepts which do not

Page 2 - Randy Aldrich
require the taking of any of of these units, and these still provide badly needed rellef for the traffic congestion problems in the area.

We also wish to point out two errors on page 13 of the document (Summary of Alternatives). Under the two alternatives that propose to tear down homes within Avonshlre, the number of residences displaced In our commurity is listed as 6. Each row of Avonshire townhouses was incorrectly counted as qne resldence. These rows contaln from four to eight units each. According to our computations, 38 homes withln Avonshire must be demolished In order to construct either of the two concepts which we oppose.

The lmpact of the following alternatlves on the intersection of old Columbla Plke and Briggs Chaney Road is not discussed in this document:

- Alternative C, Concept 2 ;
- Alternatlve C, Concept 4;
- Alternatlve C, Concept 6;
- Alternative D, Concept 3, Option 2;
- Alternative D, Concept 3, Option 4; and
- Alternatlve D, Concept 3 , Option 6 .

All of these propose 'off' access eastbound and 'on' access to the westbound lanes of the ICC, to and from Old Columbla Plke,
respectively. We currently suffer from 'cut-through' trafflc
attempting to avoid the signal at this Intersection, and these
alternatlves are likely to increase the number of vehicles using our
private streets (Avonshire Lane and Avonshire Drive) in this manner.

On another matter, the items displayed at the meeting on 30 November indicated a 'wetiand' (iabeiled as number 3) at the south end of our property, near the rlght-of-way for the ICC. Thls area does in fact look like a wetiand, but oniy because the developer of Avonshire, Curtis F. Peterson, Inc., has falied to convert the area to its intended use as a storm water management basin. With the assistance of our iegai counsei, we are attempting to get Peterson to fuifiii thelr obilgation to finish this part of our community by re-grading and seeding the entire area.
de are aware of the severe congestion and increased travei times experienced in the U.S. 29 corridor, as most of the homeowners in our community travei $1 t$ every working day. We expect that the need for increased traffic capacity on U.S. 29 can be met without forcing 38 families from their nomes.

## Sincerely,


C. Patrick Zilliacus

President, Avonshire Homeowners. Association

## January 5, 1989

Re: Contract No. M 425-101-370
Us 29 - Sligo Creek to
the Patuxent River
PDMS No. 152019

Mr. C. Patrick Zilliacus, Presiden Avonshire homeowners' Association
c/o Condominium Management. Inc.
8720 Georgia Avenue $\$ 410$
Silver Spring, Maryland 20910-3697
Dear Mr. Zilliacus:
This letter is in response to your correspondence of 31. 1988 regarding our project planning semen concerning the Montgomery County. I appreciate your commencshire community. effects of the study alternatives thorough consideration in our This information will be given a thorou selection of a recommended alternative.

I agree that Alternatives $C-2$ and $D-3-2$ at ICC-Brigg would have devastating effects on your community. These only the alternatives were developed with mapping ther mapping corrected our northern half of hvonshire. oversight, we retained these two alcern, we apparently counted the public hearing. As you pointedarion of displaced dwelling buildings and not units in our sume increased number emphasizes our units for these alternatives. position that these alternatifective alternatives address the preferable. other equal transportation problem.

Although the effects to the Briggs Chaney Road, Old Columbia intersection by the even numbered concepts and options of Road intersection by the even nuvely, were not addressed in the Alternatives $C$ and $D-3$, respectively, were not overlooked draft environmental document, of the ramps from the ICC to and from intentionally. The purpose of the ramps alternatives is to Old Columbia Road associated with these alter and the ICC. We accommodate access between the immediate tantial; but we will initially viewed the traffic as non-subs canciamps and consider the reconsider the volumes associated with environmental document if effects to the intersection in the
one of these alternatives is recommended.

My tetephone number is (301)_333-1132___



```
Mr. C. Patrick Zilliacus
```

Page Two

Cut through traffic into local communities is to be expected ong congested highway corridor like US 29. nithough not fully within our jurisdiction, we are committed to working with
Hontoomery County Department of Transportation (IfCDOT) on the implementation of measures to discourage it. Similar work is implementation of measures communities at four corners. If you wish underway with one of the commem, I recommend you contact MCDOT and bring it to their attention.

Your candid observations about your developer's failure to omplete the stormater management pond which we labeled as wetland no. 3 is noted. It is inconsequential though in our consideration. The mere observation from our field visits the intended stormwater management area is functioning as a wetland requires us to view it in our analysis

Again, thank you for your interest in the highway development process as it relates to this project. Please contact me again if i can provide further assistance.

Very truly yours,
Louis H. Ege. Jr
Louis h. Ege.
Project Development Division
by:


LHE/RCA/ih
cc: Mr. Michael Snyder

PROJECT
STATE HIGHWAY ADMINISTRATION DEVELOPMENT QUESTIONS ANDIOR COMMENTS DIY！S！0：1

Dec $16 \quad 942$ 的 ${ }^{\prime} 88$
COntract no．m 425－101－370 US ROUTE 29
sligo creek to tab patuxent river
POMS NO． 152019
Display Review
November 30． 1988
name Susan Chavarria $\qquad$
PLEASE address 9123 Slid Creek Pleulay
PRINT
cityitown Silver：Spring statemangland zip code zz901
1／we with to comment or inquire about the following aspects of this project：
Intended the Dispeny Review meeting on Nor． 30,1988 ．
I have lived in the Silver Spring esmmunity alloy Life．I have
seen many chanzeo occur and see a lot of good thence ahead for the center Silver Spring．Ethene there ls apoint where the sacrifice neighbor hoods and community is more impon tank．The ne were Questions I had at the meeting which I teel＇m．Aldrich
－did not answer sufficiently．（7）What 1 g going to prevent a ＂bottleneck＂a traftee Sum IMage dor portions from occuntipar The intersections of Franklin and the intusection of Sligo Aec Pkulay．
will hit the ce lights and then hare to fulled into Silver Spring．
（2）What is to preuen traffic（tiredxidpatien from uniting in jams at these intersections do haverse 4 he Residential streets．Pean see the whole environment of sligo Creek．Pachway chang h．Instead D the pact for purple ie．jogger，dogubltess，pedestrians it will leone an action cull i）nushhoun bathe，of n loiter 29．It 15 is A nERHBiosetthat 9 Children wait in schorl hoses people work in theislpado famuleiopedneic in the paithy and people use thiol area＇for sela＇vation and recreation．
家 pros e ed d my lour namelsito the failing List．＊
Ppieese delete my lour nemetsi from the mailing List．
＊Parsons who hove received e copy of this brochure through the moll are already on the project Mailing List．
Idon＇t want to see the Quality ？this We Charges to make a conamuites lope in Burronsurlle better！tor ubrivy

SHiA 61．3－9－35
Commuter Ale there will he a sacrifice from a resident．The benefits and the cosT does not peembalanced to the loss．
And Owns appalled to see the example used sinew In ave undupass as what the t coneys area development
will we like．Again－it shows he historice tend ot the This form is for your use to enroll your name：mon the project 0 mailing list and／or for offering written comments．To do so， remove form，fold，and close by stapling or taping before mailing．All postage will be paid by the State Highway

demise of cit quire is vier a band aid oren the cal this whole so fur a bandaid oven the real problem．Alow to ge confutes to use mass transportat Fifteen－ 20 years the whole thing will be obsolete and all the \＄will have been spent and headaches－durizg construction made－ and we will be back to point A．GO AFTER THE REAC


BUSINESS REPLY MAIL
No Passage Stomp Necessary if mailed in the United Slates．Postage will be paid by：

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION OFFICE OF PLANNING AND PRELIMINARY ENGINEERING

Box 717
BALTIMORE MD． 21203
$\cdot 1 \mu$


Richerd H. Trainor
Secretary
Hal Kassof

Maryland Department of Transportation
State Highway Administration

January 6. 1939
Re: Contract Ho. M 425-101-370
US 29 - Sligo Creek to tha Patuxent River
PDHS No. 152019

Ms. Susan Chavarria Silv Sligo Creak Parkway

Dear Ms. Chevarria:
This letter is in response to your racent correspondance pertaining to the project planning study of US 29 in Montgomary County. Your comments are appreciatad and will ba given thorough consideration in tha selection of a recommended alternative

As you noted in your lettar, there will ba a slight funnaling effect es mocorists appropar opinion, the saquence of business district. Contrary co popular opinion, the saquancourn Mill prop Avanue and not as tar south as singo is not only to reliev the traffic on $u$ s 29 but also the deceivingly high voluma of traffic on both portions of University Boulevard. With the insticution of the Transportation Management District Plan Silver Spring, as conceived by Moncgomery us 99 walieve of tha Sligo Craek Parkway approach lanes at it is today.

Moreover, sHA is committed to working with Montgomary County pepartment of Transportation to help allaviate the cut through Department of Transportation to help allaviate the charecteristics traffic. The projact team is keenly aware of the charecteris to of the surrounding neighbor sefaty of these communities.

Let me assure you that the Naw York dvanue/ North Capitol street grade seperation was usad only to give tha publice serception of the composition of this type of construction. A percep a specialized consultant antitled "Four Cornars Urban streatscapa study" was prepered. The report datails masures and trartunities for craating an eesthetically plaasing, as well as fully functional, community center at Four Cornars.

Ms. Susan Chavarria Page 2

Evary attempt has been made to provide for long term usefullness for tha full build altarnatives. Tha proposad hoV lane offers a flaxible transit solution, both in terms of operation and futura development. The HOV system aims to move paople, not necessarily vehiclas, and does not preclude the development of mora intansive transit system in the future

I would like to thank you for your interest in the highway development procass as it ralates to the US 29 planning study Plase contact us again if you have any furthar questions or comments.

Very truly yours.
Louis H. Ege, Jr
Daputy Director
Project Developmant Division


LHE/AHS/ih
C: Mr. Michaal Snyder

## PROJECT STATE HIGHWAY ADMINISTRATIONDEVELOPMFI?: QUESTIONS ANDIOR COMMENTS DI:Y:


CONTRACT NO. M 425-1
US ROUTE 29
SLIGO CREEK TO THE PATUXENT RIVER
PDMS NO. 152019

| Display Review <br> November 30,1988 |
| :---: |
| MAME | | Public Hearing |
| ---: |
| January 25, 1988 |

PLEASE ADDRESS_1250 South Washington Street
PLEAS
PAINT
cityitown
Alexandria $\qquad$ sTATE Virginia $\qquad$ ZIP CODE 22314
WWe wian to oomment or ingule about the following aapecta of this prolect:
I camment as a managing partner of Burtonsville Associates which owns approximately 49 acres of uninproved land on the east side of Route 29 just south of the fire tower near pustin_Boad, Under_Altemative_C, Concepts_1,_3, 5_and_6, yarrying parts of our land would have to be aconired_for the project_ I have outlined in oreen, on the ypoer portion of Plate 26 (attached), the approximate location of our land relative to exisitng and rerouted Route 29. Our essential concerns relate to the possibility of and extent to which some or all of our 49 acres may become landlocked or partially

## inaccessible.

Concept 5 does not identify a seryice road on the east side of existing Route 29 or access to our property from either Rovte 29 or Dust in Road. Does this imply that access will be denied? If not, what access provisions are included in your planning? Concept 6 includes a 20 foot northbound service road on the east side of existing Route 29 from the Giant Shopping Center to Dustin Road. Under Concept 6 will access from the service road to our property be provided/allowed?

Concepts 1 and 3 would reroute Route 29 through our property, understandably with / Hith no access rerouted Route 29. Thus, access to the west parcel would have to be off of old Route 29. Access east of rerouted Route 29 would have to be from Dustin Road. Accordingly, what/ areur intentions regarding access to each of the two parcels that would result from the rerouting of Route 29 between Route 198 and Dustin Road? $\square$ Plasa add mylour nama(s) to tha Maling List."
DPleasa dalata mylour noma(a) from tha Malling List.
*Parsons who haverecsived
on the prolact Malling List

January 9, 1989
RE: Contract No. M 425-101-370 US 29 - Sligo Creek to the Patuxent River PDMS No. 152019

Mr. Morton W. Seward
Burtonsville Associates
1250 South Washington Street
Alexandria, Virginia 22314
Dear Mr. Seward:
This letter is in response to your recent correspondence regarding our project planning study on US 29 in Montgomery county. Your comments are appreciated and will be given a thorough consideration in our recommendation of a preferred alternative.

I respect your concern regarding continued access to your parcel of land in Burtonsville. as you point our, dlternarives $\mathrm{C}-1$ and $\mathrm{C}-3$ bisect che parcel. iccess to che western portion would continue to be provided fron the existing segnenc of the Columbia Road. Although not shown on our plans, paralleling the eascern porcion would lanes of US 29 extending from your northern relocared northbin Road.

In Alternative C-5, you would continue to have access to the
In Alternative C-5, you would northbound roadway purchase controls.

In Alternative $C-6$, access would be provided via the twoway, east side frontage roadway.

My relephone number is (30t)_ 333-1139____
Telerypewriter for impeifed Hearing or Spaech


Mr. Morton M. Seward
January 9. 1989
Page 2

Thank you for your interest in this marter, If aitner
thank your or $C-3$ is cinosen for our preferred alternative coill clearly depict in the Einal enviromental document the stance.

Very truly yours.
Louis H. Ege, Jr
Deputy Director
Projecr Development Division



## QUESTIONS ANDIOR COMMENTS

PELOPS! EM
DI:

CONTRACT NO. M 425-101-370 US ROUTE 29
sligo creek to the patuxent river POMS NO. 152019

$\frac{\text { Public Hearing }}{\text { January } 25,1988}$
name Derothy STOTTLEMYER $\qquad$ DATE /a/7/88 $\qquad$
Please
print
ADDRESS 10.205 EDGEWOOD AVE
CITYITOWNSILVER SPRIUESTATE MD $\qquad$ IP CODE 20901
I/We wish to comment or Inquire about the following aspects of inks project:



 conveyulds.


 sichuramay -provided itounoue hphteslupat
(4) Qu maveceptath greige situation in the Sect leads direction juistelefact te 495 . intuchaxge,
 taffergeto th me the cordupasw


$\square$ Pioasa add my/our namable) to the Mailing List.* «endeppows $\qquad$
 on that project Mailing List.


Mandan Department of Transportation State Highway Administration

Richard H. Tralnor
Sneresary
Hal Kassolf
Acmunistictor

## January 10, 1989

AE: Contract No. M 425-101-370 US 29: Sligo Creek Parkway to the Patuxent River at the Howard County Line PDMS No. 152019

Ms. Dorothy stotitemyer
10205 Edgewood Avenue silver Spring. MD 20901

Dear Ms. Stottlemyer
This letter is response to your recent correspondence This fetter is response to your recent us 29 in montgomery pertaining to the project planning study of US 29 in montgomery County, Your comments will be given lit ion

We appreciate your endorsement for the at-grade proposals a Four Corners The items of concern pertaining to the proposed grade corn identified by you in your previous correspondence.

Thank you for your interest in the highway development process as relates 10 the US 29 planning study. Please contact us again if you have any further questions or comments.

Very truly yours,
Louis H. Age, Jr.
Deputy Director
Project Development Division
MFERell C.Actuch Randy Aldrich
Project Manager

LHE/AHS/in
cc: Mr. Michael Snyder

My telephone number is 130
Temypawriter tor Impaired Hearing or Speech


## Potomac Enterpribes

Maryland Department of Tiansportation
State Highway Administration
Richsrd H. Trsinor Secturary Hal Kassoff

## January 26, 1989

Ra: Contract No. M 425-101-370
US 29: Sligo Craek Parkway to the Patuxant Rivar at the Moward County Line PDMS No. 152019

Mrs. Anne Routsouti
Potomac Entarprises
1751 Elton Road, Suite 210
Silver Spring, Maryland 20903
Dear Mrs. Routsoutis:
This lettar is in response to your recent correspondenca partaining to the profact planning study of US 29 in Montgomary partaining to the profact planning study of US 29 in Montgomary considaration in the selaction of a recommanded altarnativa.

Your community is severaly affacted only by Alternative $C$ Concept 2 and its matad MOV concept, Altarnative D, Concapt 3 , Option 2. Both alternatives wera developad with mapping that After the study was along in its progress, wa raalized tha omission in our mapping. Because these alternativas have banefits to traffic operations at this proposed intarchange, wa decidad to ratain tham for further study avan though thay displace homas in your community. Sinca then, we have obtained mora information your community, ming their merit. This information, in addition to your's and your neighbors' commants will help us detarmina whether they are ratained dacision on thair ratention in the study aftar the public haaring.

I would like to thank you for your intarest in the highway davelopmant process as it relates to the US 29 planning study. Plasa contact us again if we can provida any further assistance.

Very truly yours,
Louis M. Ega, Jr.
Deputy Director
Project Development Diyision


LME/AMS/ih
cc: Mr. Michael Snyder
My telephone number is (3011_ 333-1139___
Teletypowriter tor impelred Heering of Spaech 363-755s Batlimore Malro - 707 Norlh Celvert Si.. Bellmore. Marytend $21203-0717$

## Mardand Department of Transportation State Highway Administration

Richard H. Trainor
Maryland Defartmert or Transoortation

Atteri: Mr. Neil J. Pedersen
Rof: Route 29 "Altel natives"
Sir:
wish to call to your atrention that portion of the Study Area" Ehown in Plate 14 of the inaterial sent out in bool: form by your offlce.

In all three "Alternatives" shown un Plate 14 Hillucod Dive is closed permanently at its Route 27 in:ersiaction. Wher the consultants at the "Display Rewien" on Hiventar 30. 1786 were questicned atout the accurac\% of this depict they ascured me and my

If 1980 the Marviand - idationa: Capital Fark alno in Conaission M-MCFPC, acp:oved site plans for two gites on Hillwoad Drive which depent on entry to Route 29 far oracticality. One of these pians is for a mini sturaoe" facility which regulies trust: entery. Tho other is fur a hig: denslty toortment development whish, wouid overload to Cunty Fegulations: the only other se faci!ity is unde Hillwad Drive were closed. The storage iaci.ity is under construction now. The soon as possible

In addition ts the the 1088 activity, in liat an bullding, The Colewnoa Cent:-e, was cunstructed at tre Intersectinn of hilliwooo Drive and poute eqie 27 and ejres; res requires elitry from hiliwes wilit be blucinad by ail tiee Lockwood Road. Wi.ich earess will

Hilimood Drive wis opeligd to Stonavitill Dive lin the
High': s at tle request of the Miرntgcmery County F:re late Service Sechavision there was "inadequate access" to the Estates Guta. The 'Alternat: ves" sinown on Piate lit wnuld N:
 forn and a "mini stariape" raciitiy.
and bin behalf oi the iNortnwast branch Citizans ossociatio. On behrilf or do the hearivg January gés 1989 hearing on this zubjec:.


Ti Passaltar

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lor thwesc Byar.t: : itzens isscciation
-05:2 stoneiril: :cuz=

Deer Mr. McDonald:
This letcer is in response to your correspondence of Januar l6th regarding our project planning study of the US 29 corridor in Moritgomery County. I appreciate the comments you have provided abour the incersection of US 29 and Hillwood Drive, and now some of the study alternarives affect access inco and out of your communicy. This information will be given a thorough consideration in our development of a preferred alternative of this location.

Your concerns about limiting access to US 29 from Hillwood Drive are valid. When the grade separation alternative concepts
(C-3, $C-4$, and $C-5$ ) were developed several yeers ago, much of this new development at this location wes only pending. In our effort to design an effective grade separation, we weighed traffic volumes on Hillwood Drive egainst allowing conflicting movements along e deceleretion ramp. In light of the concerns you have raised particulerly regarding adequate fire truck access to the community, we are going to reexamine the eccess issue and. if possible, reconfigure the grade separation concepts to allow right-in, right-out access between northbound US 29 and Hillwood Drive.

I want :o thank you for your irterest in the nighway deveiopment process as it relates to the study. Please concact me or the project manager, Mr. Randy ildrich. if we can provid turtier assistance. Randy's telephone number is 301-333-1139

## Very truly yours

## Meil of Pelenm

Neil J. Pedersen, Director office of Planning end Preliminary Engineering
:IJP: eh
=e: Mr. Michael Snyder
Hr. Louis if. Ege. Jr.

My celephone number is 13011
303-7555 8ellimore metro Telenypowriter tor impeltred Mearlng or Speach jo7 North celveit St., Bellmora, Marylend $21203-0717$

# PROJECT <br> UEVFLOPFIE <br> Manor Carte, witic. <br> 10750 Columbia Pike. Silver Spring. Maryland 20901 <br> (301) 681.9400 Telex 90.8148 

Scun $r$ Nocomber
Difecror of Acqumbitoms
Director of Aequisitions

RECEIVED
January 20, 1989
JAN 23 LOg9

Dhectoz, office of FLuming a paciominay engmeernis

Mr. Neil J. Pedersen, Director State Highway Administration
707 North Calvert Street
Baltimore, MD 21202
Re. Contract No. M 425-101-370, U.S. Route 29, sligo Creek to the Patuxent River, PDMS No. 152019

Dear Mr. Pedersen:
This letter is written to express the concerns of Manor Care, Inc. over the proposed alternative designs in two locations along Route 29: (a) at the southeast corner of the incerse 120-bed Route 29 and Musgrove Road, the site of our proposed 120 -bed nursing center and 120 -bed assisted living faciliy and our headquarters complex (10720, 10750, 10770 Columbia Pike and 10801 Lockwood Drive) located at the Lockwood Drive and Route 10801 intersection. Our bulldings at 1077 Colubia pike andigns. Lockwood Drive do not appear on the various alternative designs.

Attached is a copy of a letter sent to Hal Kassoff by our Chairman, stewart Bainum, Jr.. regarding our concerns over the proposed Musgrove Road intersection improvements. We co negative believe that Alternative $B$, Concept 2 would have a negative impact on our project. Alternatives $D-1$, 29 a similar negative impact due to the location of the "no northbound off-ramp. Although we prefer Alternative A, the not build" alternative, we believe Alternative B, Concept lurb cut on greatly impact our project as long as we recaire less desirable Musgrove Road. Alternatives $C-4$ and $D-3-4$ are less desirabite because of the grade problems the bridge creates for our site plan.
The alternatives proposed for the Lockwood Drive intersection present serious problems for our headquarters complex. Alternative $B$, Concept 1 shows the closing of the median into our our southern entrance which would eliminate left turns into our
complex from the northbound lane of Route 29 . Many of our
employees and visitors come from this direction and the closure of the median cut would present a hardship to them. In addition, this alternative does not show our existing northern entrance/exit located at the traffic light just north of the Sunoco station. $i$ pintaining left turn movements from our complex at signalized aintaining left turn movements from our complex at a signalized intersection is obvious.

Alternative $C$, Concepts 3,4 and 5 present even more serious problems. our complex now consists of three office buildings with approximately 231,000 square feet of gross rentable area and office building with 73,000 square feet on the 29 and a fourth 29. For suburban office buildings we already operate at a very low parking space per 1,000 square feet of gross rentat a very low parking space per 1,000 square feet of gross rentable area
ratio. Alternative $C-3, C-4$, and $C-5$ would eliminate between $20 \%$ ratio. Alternative C-3, C-4, and C-5 would eliminate between $20 \%$
$-35 \%$ of our parking spaces. These spaces would have to be replaced or there would be a substantial reduction in the value replaced or there would be a substantial reduction in the value
of our buildings which have a current value over $\$ 25$ million. of our buildings which have a current value over $\$ 25$ million. With a reduction in parking we could no longer utilize this site
for our headquarters due to the parking demand of our growing for our headquarters due to the parking demand of our growing
work force. The problem with our site is that there is no work force. The problem with our site is that there is no practical way to replace the lost parking. There is no land available for development adjacent to our property and the parking at the rear of our site. The impact on our existing two curb cuts at our 10801 Lockwood Drive building is not clear from any of the design alternatives. It is our opinion that the problems created by Alternatives $\mathrm{C}-3, \mathrm{C}-4$ and $\mathrm{C}-5$ and the cost of these alternatives to the state make them impractical for further consideration.

We certainly can understand the problems you face when undertaking a project of this magnitude and realize that such a project is going to have an impact on both property and people. Our objective is to provide you with our opinion for the record and additional facts concerning our property which may not have been available to your engineers. If your engineers have any questions or require additional information, please have them contact me.

Sincerely,
R Lam
Scott T. Macomber
STM/RD
cc: Weldon Humphries Joe Buckley

Mr. Scott T. Macombar
Diractor of Acquisitions
Manor Cara, Inc.
10750 Columbia Pike
Silvar Spring. Maryland 20901
Dear Mr. Macomber:
This letter is in responsa to your corraspondance of January 20th regarding our project planning study on uS 29 in Montgomery County. I appreciate tha commants you have provided concarning the alternatives' affacts to your proposad nursing center at Musgrova Road and to your headquartars complex at Lockwood Driva This information will be givan a thorough consideration in davalopment of a preferred alternative at each location.

At the Musgrova Road sita, your endorsament of Altarnativas B-1, $C-4$, and $D-3-4$ is useful information. Due to right of way impacts to the southast corner by Alternatives B-2, D-1-1, D-2-1 and D-3-1. I can sea why thay ara not recommendad

I agrea, the alternatives at Lockwood Drive will require soma additional enginaering studies if any of them ara selacted soma additional enginaering studies if any of them ara sel northern antrance from US 29 in Alternative B-1; howaver. if this alternativa is ratainad for further study, tha antranca will not be omitted. The parking displacements of the three Alternativa $C$ concepts is a real issue that we have not fully evaluated. If one of them is salectad, we will work with Manor Care to provide raplacement parking. Dislocating you from this site is not a viabla option.

Finally, I think you overlooked an impact associated with Altarnativa D. With tha 3-1-3 lana configuration along US 29. laft turns from US 29 would be prohibitad during the morning and evening peak periods. During off-paak pariods, this canter. high occupancy vehicia lane would oparate as a two-way turn lana. This prohibition changas some of the paak hour access to your buildings. From northbound us 29, motorists can usa the existing jug-handla at Lockwood Driva. From southbound US 29, motorists will be able to maka a u-turn at a jug-handle proposed opposite Crastmoor Drive. No access is being deniad: just changad somewhat from its axisting fashion.

My telephone number is (301)
333-1110
Telotypowriter tor Impalred Hoaring or Soeech
07 Norit Colvert Si.. Ballmore. Maryland 21203-0717

## Mr. Scott T. Macomber

Page Two

Although we do not have a preferred alternative, we are coordinating the study closely with the wishes of Montgomery County Department or transporist in . in the current bude system (Alten it will most likely consist of elements from our study

Also, as requested in your follow-up letter of January 25th, e have included Mr. Bainum's March 28, 1988 letter in the record as formal testimony for the public hearing.

I would like to thank you for your continued spirit of cooperation in the further development of this study. Please contact provide further assistance. Randy's telephone number in Baltimore is (301) 333-1139

Very truly yours.
Nici $f$ Yeleser
Neil J. Pedersen, Director
office of Planning and
Preliminary Engineering

NJP/in
cc: Mr. Michael Snyder
Mr. Louis H. Ege. Jr.

## ©Manor Care, Jnc.



## March 28, 1988

## Mr. Hal Kassoff, Admentstrator

Maryland Department of Transportation
Stata Highuay Admintstration
707 North Calvert Street
Baltieore, MD 21203-07L7
Re: Manor Haaithcare Nursing Cancer project at U.S. Rt. 29 and Musgrova Road, Silver Spring

Dear hal:
I would lika co chank you and your staff, particularly Randy aldetch, tor thetr cooperation and responstreness in working with out peopla in thetrefforts co obtaln preltintinary subdiviston approval from the Hontgomery County pianning board for our S nutitig centar project on Rt. 29. As you may know, a condition to our approval ls that Manor Healthcara ls required to placa an
area of land along Rt. 29 in resarvation for posible fucure use by cha SHA for an offramp from northbound Rt. 29 co Musgrove
Road. Road.

Although the off-ranp destgn alternative ls obviousty more dastrabla to manor Heatrhcare than the pravtousty conaldered ondastrabla to Manor Healthcare than the praviousiy conaldered on


The destgn of this alternativa requires that extsting grades be changed so that the off-ramp rises to meet the proposed Musgrove road overpass at an elavation ( 398 faet) which lat feet highar than the first floor alevation of our nutsing center
( 372 feet). The result will be that our buliding wili be sitting ( 372 feet). The result wit be that our buliding witi be sitctigg In a hole as our butlding hatght is oniy 29 feet. we cry ro provida a restidatial atmosphara for the patients at our nursing The visual tmpact of the proposed ramp and resuiting anbankment wili ba a negativa feacure that will be difflcult to overcoma.

I request that cha SHA give sarlous constderation to the alternative which placas both ramps on the Cop Telephone proparty across Musgrove koad. Due to tha location of thetr bultdings and the area of undeveloped land avallable for this alternative, ithan would appear that this design would have tess tapact on cap than it untikely that the cip. iand required for both ramps witi be daveloped as trematis restdentially zonad to serve as a buffar.

Mr. Hal Kassoff
March 28, 1989
Page Two

Obviousty, the engineering and destgn paramerers may make one alternative more viabla than che other, but i am stmply requesting that you take into constderation our concerns. The proposed ohange of the current Musgrove road rti 29 intersection us, but i recognize that chere is litcte that can be done to us, but l recognize that chere ts itithe that can be done be compltcated by the construction of the naw off-ramp.

Thank you for your constideration of our requast, and please fael free co call me lif you have any questions.


SBje:cme
cc: Scott Macomber

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A. E-1; C 5, C-6
D-1-1,=2-1
    >-3-6
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$$
\begin{aligned}
& \text { US ROUTE } 29 \\
& \text { SLIGO CREEK TO THE PATUXENT RIVER }
\end{aligned}
$$ PDMS NO. 152019

## $\frac{\text { Display Review }}{\text { November } 30,1988}$

$$
\frac{\text { Public Hearing }}{\text { January } 25,1988}
$$

NAME _TOHNT. HARDISTY $\qquad$


PLEASE
PRINT
ADDRESS_ 5316 PORTSMOUTH ROAD
CITY/TOWN BETHESDA $\qquad$ STATE MARYLAND___ZIP CODE20816 $\qquad$ IWe wloh to comment or Ingulre bout the following espects of this project: Since 1971 I have owned a parcel of ground containing approximately 4.8 acres near the intersection of Routes 29 and 198 in Burtonsville. My property is known as parcel 933 at Grid 62 on tax map KS and contains three residential buildings: one single family house, a two
-farfmenthilding and a three apartment bulding. All six units are fourteen individuals occupying the buildings

Ther are 14 desion alternatives under consideration for the
There are 14 desien 29 and 198. Of these 14. 8 would result in
displacing one or more of the families occupying the property. In those cases where only one or two of the buildings would be acquired by SHA. the impact on the remainign house or houses would be such that they would be adversely affected. I therefore favor any of the six design alternatives which_mond not necessitate taking any of my buildings. $\qquad$
would like the opportunity to further address my concerns at
the hearing on January 25 at Northwood High School.

Pleese edd my/our nemols) to the Malling List *
$\square$ Please delete mylour nemelel from the Melling Llst.
Persone who have recelved ecopy of thle brochure through the mell ere alreedy on the prolect Malling List.

Maryland Department of Transportation

RE: Contract No. M 425-101-370 US 29 - sligo Creek Parkway to the Patuxent River at the PDMS No 152019 Lin

Mr. John T. Hardisty
5316 Portsmouth Road
Bethesda. Maryland 20816
Dear Mr. Hardisty:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative.

Your support for A1ternatives $\lambda, \mathrm{B}-1, \mathrm{C}-5 \& 6, \mathrm{D}-1-1, \mathrm{D}-2-1$, and $D-3-6$ at $M D 198$ is certain1y appreciated. The remaining alternatives at this location which adversely affect your property, are those associated with the Eastern Montgomery County Master Pian alignment for US 29 through Burtonsville. at this time the planning team has not identified a preferred alternative at MD 198. Planning activities are progressing toward determining a preference later this year.

I would like to thank you for your interest in the highway development process as it relates to the us 29 planning study. please contact us again if we can provide any further assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Director
Project Development Division
by:
$\rightarrow$ Rall ? Aedend
Randy AIdrich
Project Manager
LHE/AHS/ih
cc: Mr. Michael Snyder

My felephone number is (301)_33___
Toletypariter tor Impelred Hearing or Speech


I have the following observations and questions concerning these

## Maryland Department of Transportation

## State Highway Administration

February 15, 1989

RE: Contract No. M 425-101-370 US 29; Sligo Creek Parkway to the Patuxent River at the Howard County Line PDMS No. 152019

Mr. Richard Rarpe
10000 Brunett Avenue
Silver Spring, Maryland 20901

## Dear Mr. Karpe:

This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery County. Your comments are appreciated and will be given thorough consideration in the upcoming selection of a recommended alter-
native.

We do not anticipate additional use of Brunett Avenue as a result of the proposed improvements. In fact, we believe the cut-through traffic will subside considerably with the completion of improvements at Four Corners. Widening Brunett Avenue is not and never has been a consideration of any of the alternatives in this study. In fact, Montgomery County Department of Transportation (MCDOT will investigate measures to discourage neighborhood cut-through traffic if they determine this type of traffic exists A representative of your community association should contact Mr Welke's telephone number in Rockville is $217-2190$

The landscaped area shown in the artist's renderings at four Corners is not meant to portray a park area. Instead it is an attempt to further the community center theme through the use of aesthetically pleasing green space. Additional opportunities for increasing the cohesiveness of the community center are identified in a study prepared for State Highway called "Four Corners Urban request.

## Mr. Richard Rarpe

 Page TwoI rould like to thank you for your interest in the highway development process as it relates to the US 29 planning study please contact us again if we can provide any furcher assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Direc
Project Development Division


LHE/AHS/in
cc: Mr. Michael Snyder

Robert F. Cook 10404 Crestmoor Drive silver Spring, MD 20901

Mr. Neil J. Pedersen
State Highway Administration
office of planning
and Preliminary Engineering
Box 717
Baltimore, MD 21203
Re: Route 29 Jughandle at Crestmoor Drive
As chairman of the Traffic Committee of the Woodmoor-Pinecrest citizens Association, I sent a letter to Mr. Ron Welke, Chief, Division of Traffic, Montgomery County Department of Transportation on october 28, 1988 requesting that traffic counts be done and changes be made to try to reduce the rush hour cut-through traffic in the neighborhood. You and Mr. Aldrich were copied on that letter.

On November 15, $1988, \mathrm{Mr}$. Welke wrote to me to indicate that a traffic survey would be done and consultation regarding alternatives to solve the problem would be undertaken.

The purpose of this comment on contract M-425-101-370 for Route 29 from sligo Creek to the Patuxent river is to alert you to the fact that we are trying to reduce the cut-through traffic in the neighborhood. It would appear to us that the plan construct a jughandle at crestmoor drive and co straighte Crestmoor Drive to meet it would exacerbat rather than alleviat the problem we are attempting to correct.

The Woodmoor-Pinecrest Citizens Association has taken the position of opposing the jughandle and, failing that, my neighbors and I will oppose the straightening of Crestmoor Drive to line up with it. Therefore, the Woodmoor-Pinecrest Citizens Association, the Traffic committee, my immed thought be given to alternatives to and I sugges

Thank you for consideration of my comments.


## February 15. 1989

RE: Contract No. M 425-101-370 S 29; Sligo Creek Parkway to the Patuxent River at the Howard County Line PDMS No. 152019

Mr. Robert F. Cook
10404 Crestmoor Drive Silver Spring. Maryland 20901 Dear Mr. Cook:

This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery pertaining to the project planning study of US 29 in Montgomery consideration in the selection of a recommended alternative.

The jug-handle turn lane opposite Crestmoor Drive in Alternative $D$ is proposed to provide peak hour access into your community. An element of Alternative $D$ would prohibit peak-hour left turns along US29. The turn lane will also provide u-turn capability. It is not intended to provide a short cut through
your community. Hopefully, measures implemented by the county will discourage any cut-through traffic. now and in the future.

I would like to thank you for your interest in the highway development process as it relates to the US 29 planning study. Please contact us again if we can provide any further assistance.

> very truly yours.

Louis H. Ege, Jr
Deputy Director
Project Development Division


Project Manager

LHE/AHS/ih
cc: Mr. Michael Snyder

My teleohone number is 13011 _33._
Telenypowriter tor Impelred Heering or Speech
$-585-045$ O.C. Metro - $1-800-492-5082$ Stenewide Tat Free
383-75s5 Betimae Metro - $585-04510 . \mathrm{C}$. Metro - 1-000-492-5002 Stedewlde Tat Free 107 North Celvert Si., Bellimore, Merylend 21203-0717

Maryland Department of Transportation
State Highway Administration

Richard H. Trainor Secretry Hal Kassof

## STATE HIGHWAY ADMINISTRATION QUESTIONS ANDIOR COMMENTS

> CONTRACT NO. M $425-101-370$ US ROUTE 29
> SLIGO CREER TO THE PATUXENT RIVER PDMS NO. 152019

l/We wish to comment or inquire sbout the following aspects-of this project:



## D Pleasa add mylour namalsi to the Melling List.*

Plasaa dolata mylour namalsi from the Malling List.
-Parsona who hava recelvad e copy of thia brochure through the mall ara alraady
on tha proloct malling List.

## Mayland Depantment of Transportation

State Highway Administration

RE: Contract No. M 425-101-370 US 29: Sligo Creek Parkway to the patuxent River at the Howard County Line PDMS No. 152019

Mr. K Mrs. Gearhart
10011 Lorain Avenue
Silver Spring, Maryland 2090
Dear Mr. \& Mrs. Gearhart
This letter is in response to your recent corres pertaining to the project planning study of US 29 in Montgomery county. Your comments are appreciated and will be given thorough

The project team is keenly aware of the elements of the 29 neighborhoods and have taken measures to protect them. There has been no attempt to reroute additional traffic onto Lorain Avenue or any other neighborhood streets.

Only the alternatives requiring the removal of the median would affect the pedestrian access. Under chis alternative. Alternative $D$, we have proposed pedestrian overpasses at Granville Drive, Lorain Avenue and all of the signalized intersections which will be retaing with pedestrian will have to walk no more than $2-3$ blocks to safely cross Colesville Road. Also, the timing of all of the signals will be examined to ensure ample time exists to cross seven lanes of pavement.

I would like to thank you for your interest in the highway development process as please contact us again if we can provide any further assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Director
Project Development Division
by:
 Project Manager
LHE/AHS/in
ce: Mr. Michael Snyder
My ielephone number is 1301)_ 333-1139
Toletyoawriter for Impalied Hearing or Speach


STATE HIGHWAY ADMINISTRATION QUESTIONS ANDIOR COMMENTS

CONTRACT NO. M 425-101-370
US ROUTE 29
SLIGO CREEK TO THE PATUXENT RIVER
POMS NO. 152019
Public Hearing $\leqslant$
Display Review
November 30, 1988
GREG Dinars
NAME
please admesess 2831 Shepperton Terr PRINT

CITYITOWN $\qquad$ state $\qquad$ $M \Delta$ IP $\mathbf{c o s e}$ $\qquad$ 20904
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$\qquad$ R $\qquad$
IW We when to comment or inquire about the following epecte of ind s protect:
I STrong en support Your construction Alteruatules
 and a build derision yam would entrance safety, AnN chasid, AND fur economy. Rehalinc DHE LEWTS' ON US 29 in towns COUNT GOR WS A WISE DEUSION; US2G luIS DESIGNED FOR GRADE SEPARATION, AND THE SHROUD BE CONTINES SOUTH TO wHIT OAK Assalinirnter In JigS if possible. I, a 33 year Resident of Silver SPENE, MUST COMPETE witt TRiPS Generated, ouTSIDE THE COUnty, AND need a faciuty Recurved of cos traffic. liaise Mace A HE pouty chocks To build
 AND BUILD COR THE UBUC GOOD CATHER

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Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION OFFICE OF PLANNING AND PRELIMINARY ENGINEERING BOX 717
BALTIMORE MD. 21203
BUSINESS REPLY MAIL
Ho Postage Stamp Necessary if mailed in the United States. Postage will be paid by:


MALTMORE MD. 21203

## Februery 15, 1989

RE: Contrect No. M 425-101-370 US 29: Sligo Creek Parkway to the Potuxent River at the Howard County Line PDMS No. 152019

Mr. Greg Dinerdi
2831 Shepperton Terrace
Silver Spring, Meryland
20904
Dear Mr. Dinardi:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comnents are epprecieted end will be given thorough consideretion in the selection of e recommended alternetive.

We certainly eppreciate your support of our planning study elternetives to improve e troubled transportetion fecility. As you noted, the decision of which elternative to select will be a "tough choice", but we expect that decision to be made leter this yeer.

I would like to thenk you for your interest in the highway development process es it relates to the US 29 planning study. please contact us again if we can provide any further assistence.

Very truly yours.
Louis H. Ege Jr
Deputy Director
Project Development Division
by:


LHE/AHS/ih
ce: Mr. Micheel Snyder

## My telephone number is (301)_ 333-1139__

Telolypowitior for impaired Heering of Speech


## Shemin Nurseries.w

ноaticiutural distabuiton centers

January 31. 1989

Mr. Neil J. Pedersen, Director
Office of Planning and Preliminary Engineering
State Highway Administration
P.O. Box 717

Baltimore. MD 21203-0717
Dear Mr. Pedersen:
I recently spoke on behalf of my company, Shemin Nurseries. Inc.. the public hearing regarding the us 29 Corridor. Five of the $\$$ State's alternatives for the future improvement to Route 29 - ralocates the road so as to take our property. Obviously. wa are distressed at this proposal and are in total opposition $=0$ it. I am enclosing a copy of my testiaony in order to be incluaed in the "Public Hearing Transcript". I have also enclesed outlining the nature of our business
On Thursday, Eebruary 23. 1989 at $4: 00$ PM we have scheduled a meeting with you at your ofinice in order to analyze the full impact of what the state intends to do. I look forward to meeting you at that time.

Sincerely yours,
fuellean 7 . Horen
Willia:n 4 . Honzn
HLH/db
Enc.

State Highway Administration Testimony
January 25, 1989

Good Afternoon. My name is william Honan, Vice President Of Shemin Nurseries, Inc. Located on Route 198 in Burtonsville, Montgomery County, Maryland.
five
$\Rightarrow$ of the state!'s alternatives for the future improvements to Route 29 (identify the alternatives here) relocates the road so as to take our property. Obviously, we are distressed at this proposal and are in total opposition to it. It would appear to us that the alternatives which take our property and business is the most costly to the taxpayers of the state of Maryland.

Our business is the wholesale distribution of horticultural products. On our 22 acre site we distribute landscape trees and shrubs, indoor foliage and flowering plants, irrigation supplies, landscape construction products and pottery. Making up our 6000 plus customer base are landscape contractors, interiorscape contractors, municipalities, government agencies and many

## Our Slandard is Excellence



-2-
public and private parks and arboretums. Besides both residential and commercial landscape designs, our plants and horticultural supplies can be found at Brookside Gardens, Dumbarton Oaks The White House, The National Arboretum, Mt. Vernon and many of the parks and properties managed by the Maryland National Capital Parks and Planning Commission.

We have occupied this location since September of 1980 when we began with just 9 employees and have grown since that time to where we now have over 65 full-time employees and an additional 25 part-time, the majority of whom reside in Montgomery and Howard Counties. In 1988 we had a total payroll of $\$ 1.8$ million and paid payroll taxes of $\$ 33,000$. We also paid $\$ 30,000$ in personal and property taxes to Montgomery County.

Our sales volume in 1988 was just under $\$ 16$ million with approximately $\$ 6$ million in sales coming from out of state. We collected and paid over $\$ 400,000$ in sales tax to the state of Maryland.
-3-

When we began our business in 1980 the Montgomery County Council saw fit to finance our business with $\$ 2.8$ million in Industrial Revenue Bonds that have a maturation date of October 1, 2007 (refer to Bond \#). This would represent 27 year financing on our facility. At that time the county was financing businesses to encourage employment and capital expenditures in what then was the less developed eastern part of the county. These bonds were issued on a floating rate of interest of 5.5 below the prime rate. This incentive financing impacted our decision to locate in Montgomery County rather than elsewhere. In taking this action of assisting in the financing of our business, and the area, the county felt that our business was important to the county and, hopefully, that feeling still holds true today.

We would respectfully urge that you delete these alternatives from your consideration as soon as possible.

Thank you.
belem Atoner


[^1]My relaphone number is (301)_ 333-1110

## RECEIVED

Mary lard Deoartmorrt of Traneoortation
Gtater Highway Administration State Highmay Administration
Office of Plannirig and
Prolimitiary Engimeering
Ean 717
Baltimern, MD $21=03$

FEB 61989
Dlactror. office of


January 20, 1383
Res Us Raute 29 - Sliga Cremh to fotuxent River
Dear Sir;
Greatur Colmevilie Citizmen Aamociaticm represmenta acana sache houathialda metr the interaection of Rarmolph Rcied arnt Nom Hamoshire Avenum. Racaubs of the lecaticri of our homea, cur mombers frequertiy orive the segmerit of Raute e9 being Route 29 Alternativer LocationfDesign decumerit (FDME isasig).

Our ccanmerte ore proserrtad belew ard are organized as cueralif comment $=$ and intaraection spercific commerrts.

## 

HOV YE REversithle Lange: We have resarvations about whethmer HOU lanemare momkabie. sirice their najor use ia for pmople morhing in Hashington. An alternativeto MOV ia reveraible laries, which will mork. Eecaume the poanibla raid
imoravanome thraugh Four Corners ardinto Eilver Spring will imoravemorre thraugn Four Corners ardi into Gilver Spring wi thear aroas, comething lem meeds to be dam ta imorave theas araas, conething iles riemed to be dame ta inorave travel corditions in addition to the imprownanarta. The use of hov lanose along with ecmarutar parinivo lata marth of Now Hamostirm Ave is the best cotion. Thureform, we mecurage DOT to imprerve At 23 with HOU laries. If HOU dowa not marh, changing a fow sinnap the comatruction of HoU or reversible changing thoment

Light raily hie believe that light rail may orene fansiole ir
 occury. then light mail eauld either join or roolace tho hov larien. To nahe this transition popsibie in the distant future. the design arrd construction of the HCV laries in tho fiear tarm should allow sufficimert mace for the addition of lignt rail.
 frotursectione along ft ag muat be eithor at-grace ar orado-
cenaratod. We raject this approach. Rathor, me atrongly ericcurago grade-secarated intorchargea with major rande arid at-grade irrturchangex with other roade. Thare are throe reascria for this oopratch. Grado-eeparated interchaviges with the losic traveled crane-ietroctis will have a major impact cm mearby resideritial armean, while titgrade iriturahanoes already oxiet. Second, grade-separated irturchanges are much anor expensive, which is mante when they ard ract juatified. Laat, the raads ineidu the emitway will ncit be able to supoort all the vehicler that unabstructed mecena ife gradeenedarated interchariges) will create. Theretore, building ali orade-separated interenangea is nert juatified.

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We reccumaurid gradz-separated inturcharigee at the following i roternecticama
Gnivergity Elygi Alternative D-3-2 shculd be built, but care nemdis to be takm to nininais diaruption to oxisting busineasen during canatructiori. Four Correra is the majar bottluriech on ft 29, and thermfor a grade-meparated interchay, is is nefoied ta move as many vehicien al posaible through this irituranction.
Nen Hampghire Ays linproverownts need to be made to acd the lariez at the ovirpaee as ehcorn ir plate 31.

Iech fig: Tha induntrial park will be experiencing a large amourrt of growth in the futury. Baemod upen leamona learried with Ty*orn Corrior, multiole entrameer and enitn verad ta be providec. As shown, the sajor entrance and oxit is with will allce into tho industrial park from the south
 and this alt ormative but nith modificaticres. Alterriative D-3-1 block Proaerity Or wion ia urmarted for there wha wiah to blocks Proaserity Dr, with ia urmatrted for these who wiah to che reah Pdiprosity interaction is recenmanded airct it prevides another paint of accese ta the imdustrial park.

Randgiph Müsergyt KEzirlandi we recomenend Altumative D-3-1 bendel and thereferw bacause the leaf amount of disruption to ensating businesemefreaidmees arod retains the mist grean space. Hovever ald Calumbia pike betmen Muagrave and Fairland serves orinarily mefidomtial traffic and thernfore minuld not be to 23 from the be ungradod to four larnes. Venicles accessing from the mest mill use old Calumbia fithe Feirlamg rade it only accammodating drivere froun orie twoilano road and, than only from the west. Tharefore, four lanea on Old Columbia pihe are rot raquirad. Ther lenoth of four lanks on Fairland ghould be ae shawn in
ither ICC/Rrigas Charrey Rd Altermatives D-3-4 on 0-3-6. rather than Fairlernd Alternative $D-3-1$.

ICEf Eriggat Changy, At Rrigge Chaney, oither Altornativen D-3Cer D-3-6 provide the desinad turning movoroente with miricaus aisruotian to residences and busimateon, plus rataining the desirad fan the icC. The full elovernlear ICC dofent because of the amount of land reauirad. It alsc down inctar provide accesen to Old Columbia oike avit it has imoact on residmene.
 At 29. Hemever, the turriting movements ot Spmemerilico Rd arnd old Rt 29 -oDear to be irmodequate for the number of viehicien using this inturwection. This intermeticin should be addresead, alcmp with midening of gpencemililo Rd thraugh Burtomevilla.

## Other Lntersertions

The rimaining intersections should be at-grade, esmertiaily as thay are proseritiy. The only excoption ia that the Rt eg median breah for Milimood Dr. mould be ciosed for safmety reasone.

Thees comments warre ravinimed and adopted by the gCCA Enecutive Board.

If you have ory question: plearem Eali Rili Tate (304-4471), Dan Wilhelm (3e4-2698) or Med Raylmy (384-932e).

Sinceraly
Oitur Minman
gCch promident

## Mayland Department of Tansportation

 State Highway AdministrationFebruary 21. 1989

## Mr. Peter J. Munson. President <br> Greater Colesville Citizens Association <br> P.O. Box 4087 Colesville <br> Silver Spring, Marylend 20904

Dear Mr. Munson: Peter
This letter is in response to your letter of January 28 th regarding our project planning study on US 29 between sifgo 28 th and the Petuxent River. I appreciete the comments you heve provided on the study alternatives effects on this important will be given thorough Eern Montgomery County. This informetion will be given thorough consideration in our development of a

The Greater Colesville Citizen Associetion is to be complemented for their interest and in-depth review of the transportetion problem on US 29 . Your endorsement of the hov alternative, Alternetive D. is acknowledged. It is consistent necessarily vehicles. We also realize that with not alternative. not ell of the intersectionst with the hov grade separated. Your limitation of orade need to be initially only to D-3-2 at four corners. D-3-2 at industrialion concepts at Randolph/Musgrove/Eeirland, D-3-4 or D-3-6 at ICC/Briges-1 Chaney and D-3-3 at Spencervilie Roed is noted Theriggs are all projected to have inadequate intersection capa locations uture. We agree that if the transit charaction capacity in the corridor were to someday indicate that commuter trips could more effectively served by a light rail system, there is nothin within the design of the Alternative $D$ that would deter it

Mr. Peter J. Munson Page Two

I would like to thank you for your interest in the highway development process as it relates to this study. please contact development process as it relates to this study if we can provide further assistance. Randy's telephone number in Baltimore is (301) 333-1139.

Very truly yours
Oneil g felenm
Neil J. Pedersen, Director
Office of Planning and
Preliminary Engineering


State Highway ddministration Office
of Planning and Preliainary Engineering
Box 717
Baltimore，Maryland 21203
618 Sutherland Road liver Spring，Maryland 2090 February 2， 1989

Dear Sirs：
This is a letter of protest to the State proposed renovation of Route 29， especially the four Corners underpass and south into Silver Spring．The idea is distressful to all neighborhood residents from Hew Hampshire Avenue South to Silver Spring．

Many aspects of it are of concern to me but I shall primarily address the major one as I see it：NO CONCERH FOR PEDESTRIAI SAFETY．The plan is made to move cars in a smooth freeway－like method with no real interest or plans for people needing to crose Colesville Road for：1）buses，2）school，3）church，and ）recreation at YMCA and eurrounding parks．

About three years ago I attended a meeting of this original proposal．At that time there years NO PEDESTALAN OVERPASSES CONSIDERED．The presentors of the plan looked surprised when questioned about this．Recent plans include ONE PEDES－ TRIAN OVERFASS（eouth of Beltway near Granville Road）from Four Corners to Sligo Creek Parkuay．HET Esoucy．

This proposal appears that the State and County planners are talking out of both sides of their mouths．They profess to want to encourage uee of public transportation but make it a near imposeibility with no safa way to cross Colesville Road．Once the median strip is renoved to accomodate HOV（which will be ae Ineffective as Virginia＇s HOV has proved aince people do not like to car pool for varioue reasone）it will be a DEATH STRIP all along Colesville as adults（to bus， church and YMCA）and children（to echool，church \＆YMCA）attempt to dash between cars．The speed will increase to freeway speed as local police will be ae unable to control that as they are unable to control drivers not observing YIEID signs as they come off Beltray onto Colesville or the NO U－TURN eign at Granville and

Dangerous and fruetrating will be the atmosphere for drivers coming up from the underpass going south as they quickly try to merge to the right frontage road－ the underpass going south as they quickly try to merge to the right frontage road ending accidents and delays．

Congestion farther South from Sligo Creek into Silver Spring will be worse than it is now as the faster moving traffic will bottle neck farther down．Traffic already has 2 or 3 weekly elow downs from Granville on South and drivers turn of $f$ onto Granville and go through Bruce ae a cut－through to save
daily between 7：30 a．m．and 8：00 a．m．during my regular walk．

Jell established neighborhoods will be in jeopardy as more cut－throughs will take place．Even as this proposal would cause the deterioration of these neigh－ borhoods（with more noise，polution and traffic），the County continues to increase the property taxes．

The small，convenient business district at Four－Corners will be all but destroyed，if not during lengthy construction，after，with limited access to them destroyed，if not during lengthy construction，after，nith limited access to them
suggest that Montgomery County and the State take more time and re-evaluat what they need to do. Since light-rail does not seem too feasible (according to thea). look into the simplier idea of Jug handles Prolude Drives and time the traffic lights where needed - such as Oak Leak able speed. Make available more lights for an even flow of tran subsidized bus transportation to Metro. The monies "Park and Ride" lots (free) and subsidized bus expensive (in all ways) proposal could come from money allocated for this vens anyway. which will not solve the long term problens anyway.

Residents who bought property up-county did so knowing they would have to low time and patience for commuting to hork and play. They had a choice, and nelghborhoods, also made choices with our eyes and pocketbooks open.
please reconsider this profosal and study other options.

Sincerely yours.
Kactiler, M. Gecker
Kathleen M. Becker
copies eent tos Mr. Sidney Kramer B-. Michael Subin Ms. Rose Crenc Sonator Ha $C$, Ruben Delegate Detar Pranchot Delegate Sheila E Hixson Mr. Robert McGarry

## Maryland Department of Transportation <br> State Highway Administration

February 21, 1989

Ms. Kathleen Becker
9618 Sutherland Road
Silver Spring, Maryland 20901
Dear Ms. Becker
This letter is in response to your letter of February 2nd egarding our project planning study on US 29 between Siigo Creek comen provided on the and the patuxent study alternativ. This information will be given thorough area are appreciace. Ghef alternative. consideration in our develould remove th

We feel that under the alternative wafely cross US 29 median there would be several places to safely between Sligo Creek Parkway at Granville Drive, you would be proposed pedestrian overpassized intersections at Sligo Creek able to cross at the signal The timing of the traffic signals Parkway and Frankin Aventia time is provided for a pedestrian to ould be set to ensure ilso sidewalks would be constructed ross to the oth 29 so that pedestrians can get to these long both sides

The Virginia Department of Transportation has been an early rter of the HOV concept of moving people, not necessarily supporter of the HOV concept of quite successful in the area vehicles. Carpooling has been quite In fact, the HOV roadway served by these incentive facili as the most successful HOV on the Shirley Highway is cited as the forecasts generated for the proposed facility in the nation. Forecasts gencmising. The diversion of HOV/Express Bus Systen on travelers to buses or carpurs on this roadway allowing more and more singla

The analysis of traffic engineering changes to the Silver Spring Central Business District is currently underway. We are Spring Central with the Montgomery County Department of Trans working closely with ene itant on this study. It includes an portation and examination of the capacity of and Georgia changes tion ha

My telephone number is 13011 333-1110___
Toletypewrtter for impeired Hearing or Speech


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Ḿs. Hонаrd M. Becker Paye Two
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Alternative $D$ is consistent with Montgomery County Department of Trensportation's long term plans for eastern Montgomery County. They ere actively pursuing e program to site more park end ride lots that could provide e total of 4,000 to 5,000 parking spaces. Although only e small portion of these speces ere evailable today, they ere being used effectively. Frequent peak hour buses, providing service between the current lots end Silver Spring, ere being subsidized by the county and private developers. Also, the county is considering funding initiel portions of the Hov lene system. Their goel. which is consistent with the Eestern Montgomery County Master Plan, is to adapt US 29 into e transit serviceeble corridor.

I would like to thank you for your interest in the highwey development process es it reletes to this study. please contect ae or the project maneger, Mr. Rendy Aldrich, if we cen provide further essistence. Randy'\& telephone number in Baltimore is (301) 333-1139.

## Very truly yours.

ORIGINAL SIGNED BY:
NEIL J. PEDERSEN
Neil J. Pedersen, Director office of Plenning and Preliminery Engineering

NJP/ih
Attachment
c: Mr. Michael Snyder Mr. Louls H. Ege,Jr

Prepered by: Randy Aldrich, Proj. Dev. Div., 333-1139

## Joyce Benson

0427 Eastwood Avenue Silver Spring, MD 20901

February 2, 1989

State Highway Administration Offic
Box 717
Baltimore, MD 20203

## Dear Sirs \& Mesdames:

My husband and I own a home on Eastwood Ave., where it meets Dennis Ave. One of the things that attracted us to the an old, its bucolic ambience, and its underdevelopme
established neighborhood, with rust
Soon after we moved into our home we learnedy knew. apparently half of lower Montgomery County already going south Eastwood Ave. is a convenient cut-through if you you can save a on Rt. 29, heading West on University Boulevard' Y light at the few minutes driving time
silver Spring Metro, and have to
I take a Ride-On bus to the Silver Spr house so that I may cross to the side of the street opposite iny it is sometimes nec walk down the hill facing oncoming traffic. It assed before I essary for me to wait until 10 or 15 cars have to the bottom of esan safely dart across the street. When side of the street to the hill, I have to cross to the opposite crossing against an the bus stop, again risking life and limb crossing is, short cutoften steady stream of cars turning leftissed catching my bus on ting through our neighborhood. I have missed catct past the more than one occasion, due to my my re cut-through traffic in time to get to reach to wait half an hour sentment increases considerably when ork late for the next bus, thus arriving at work late

My husband counted 200 cars an hour passing through our
My husband count during non-rush hour. I cannot even imagi street this summer, during ${ }^{\text {mon }}$ morning and evening rush hours.

The county has permitted unbridled development in now plans to Route 29 corsidor. The State Highway Adminiguring our neighborsacrifice our community by permanently dist in Burtonsville can hood in order that the people who shave a few minutes off their commuting we did in order to wind up Corners. We didn't buy our home where folks who bougit out in living next to a concrete corridor. $10 n g$ commute if they drove Burtonsville knew they could expect a long Expressways only encour their cars into downtown Silver Spring. Express of Rt. 29 North the use by additional vehicles.
can use mass transportation, instead of contributing to the con gestion by driving their cars to work. As a matter of fact, they en aresidents of our community.

We are opposed to Alternatives $C$ and $D$. Many older people find $\frac{\text { We are opposed to }}{\text { driving through underpasses intimidating, and something of a }}$ nightmare.

A natural jughande already exists on University biva; a
ex inistration claims it Four Corners, but the State Highway Adm install pacer lights. yet they claim it would rake only $3 \frac{1}{2}-4$ Years to construct underYet they claverpasses on Rt. 29. I suspect they've greatly underestimated the construction time for this massive projec And where would all the traffic be re-routed while lave no Colesville are under construction? Eastwood Avenue, doubt. The Department of Traffic Control and State ingur traf Administration would be only too pleased to siphoneets. I suspect fic as possible off Rt. 29 through residential streets. I suspec that might be why they complied with our community's requef install a much-needed traffic light at the intersect Colesville/Eastwood/Southwood.

The majority of streets in our neighborhood lack sidewalks, and pedestrians have to walk in the streets to get to the bus, school bus, neighbors homes, park, playground. Parents skate, peotheir babies in strollers, youngsters ple walk for the enjoyment and exercis $3 \frac{1}{2}-4$ want the additional traffic, nois years of construction and beyond.

At the public hearing conducted at Northwood High School Wednesday, January 25 th, many of us heard the extremely dangerous situation that exisexsts. We heard the and Prelude Drive, where no trasf wife and infant son had been in moving plea of a young man whose heir car was hit while the young an accident that ming, whe car woman was attempting to make into a ravine was pushed down a steep enbankment, into a ravine

We were also informed of an accident which had occurred that very evening. I am enclosing a copy of an article which appeared in the Montgomery Journal, reporting the death car after he got pedestrian in that accident, who was attempting to cross Rt. 29. off the bus at Oak Leaf Drive and was attemptian error". I would The State Police called the accident pedestrafic light should call it a "traffic engineering the town houses on either side of have been installed as soon as the highway were ready for as well as safe passage across Rt. egress from the developments as obviously the man thought he had 29 to and from the bus stops the median strip, and he misjudged sufficient time to crossped of the oncoming car. As there is no time, distance, or the speed of the oncoming car
traffic light at this location, pedestrians needing to cross from one side of Rt. 29 to the other have to make similar judgment all the time. I have read that the to install a traffic light section of Rt. 29 and has decided to install County will install there by March, 1989, and that Montgomery is tragic that it had to some sidewalks along this locatse actions.
some sadeath to precipitate these actions.
We are totally opposed to the removal of the median str Rt. 29 betveen white oak and odestrians attempting to cross serves as a safety zone for pedestrias. The County is now in the Rt. 29 where no traffic lights exist. which they removed from a process of replacing the median strip proct son.

Sine jonfiguration at Four Corners is part of since the jughandle configuration atal in conjunction with the State Highway Administration recommend that they build the their underpass/overpass plan, recoms before evaluating its jughandle first and allow several it out of hand.

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\begin{aligned}
& \text { yery truly ygurs. } \\
& \text { goyce } 3 \text { Joyce Benson }
\end{aligned}
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# Man mansonx, Mauntim 1800 

Pedestrian killed on Route 29
An 82 -year-old Anbumin, Fir; man ing nocinbound Colesville Road to ass ldilled laxa night when he what go to his sonnit house when he was Whe billed lasa night when he whe ofruck in the lane doseax to the med

 off a buar blout 7:16 and draction Hithll sadd the sceldent wis ruled our a bus turn ....

State Highway Administration

Richard H. Trainor
sectotery
Hal Kassof
Adminurutor

February 21. 1989

Ms. Joyce Benson
10427 Eastwood Avenue
Silver Spring, Maryland 20901

## Dear Ms. Benson:

This latear is in rasponsa to your correspondanca of February 2nd regarding our project planning study on US 29 in Montgomery county. I appreciate the commants you have providad concarning tha study alternativas affects on your home and community. This information will be given a through consideration in our davelopmant of a praferred alternative.

Apparently, tha recent signalization of Eastwood Avanua has its advantagas and disadvantages. We studied the appropriatenass of a signal at this intersaction at tha requast of tha Kinsman farms Comminity. Tha study ient traffic volumas existed to warrant a signal. As you point Avanue ss aighborhood cur-through routa to avoid four Corners Raalizing the impacts of this traffic, we ara committed to working with Montgomary County Department of Transportation on implementing measures to discouraga this traffic. Thesa changes would ba actively sought before any construction is started on tha proposad grade separation. Wa have no plans to route any detouring traffic onto neighborhood straats with any of our study alternatives.

As a rasult of a datailed and ongoing angineering analysis, wa are praparing to install a traffic signal at Pralude Drive. This will allow pedastrians to safely cross Colesville Road and will allow easier access to and from the Dumont Oaks Command also.
The signal is scheduled to be functioning by March 3lst. Als. the County has programed the construction of a sidawalk on the west side of US 29 betwaen Praluda Driva and Burnt Mills Avenue.

Not all alements of Alternativa $D$ proposa convarting US 29 into a controlled accass exprassway. concept 1 proposes an atgrade HOV lana between MD 198 and I-495. Such a systam would retain tha signalized intarsactions. It includes usage of the jug-handla turn lanes at Four Corners. It also proposes con-

Ms. Joyce Banson
Page Two
rructino sidewalks alono both sides of US 29 betwaen MD 650 and igo Crak Parkuay Padastrian accass across US 29 would be uided toward the retainad signalizad intarsections and pedestrian overpasses at Granville Driva. Lorain Avenua and Oak asf Driva. Batween thase signalizad intarsaction and overpass locations, a pedastrian will only walk a faw blocks to safely cross US 29. Additionally, tha timing of the signals will be evaluatad to ansure ample time is providad to cross seven lanas of pavemant.

I want to thank you for your interast in tha highway davalopmant process as it relatas to this study. plase contact me or tha projact manager. Mr. Randy Aldrich, if wa can provide furthar assistance. Randy's telephone numbar is (301) 333-1139.

Very cruly yours.

## Nib $\{$ Pedeum

Nail J. Padarsan, Diractor office of Planning and Praliminary Enginaering

NJP/ih
cc: Mr. Michael Snyder
Mr. Louis H. Ege, Jr.

Maryland Department of Transportation
Secretor State Highway Administration
Dear Sirs:
The purpose of this letter is to express my objection to the proposed State of Maryland Highway improvement project from Howard County, Maryland to Sligo Creek Parkway in Silver Spring along Route 29 - principally the section from Four Corners (Intersection of University Boulevard and Colesville Road - Route 29) to Sligo Creek Parkway. The arguments against this project have been voiced sufficiently by others in public hearings, meetings, letters, etc.. so I will simply summarize my points of concern:

1. Creation of a safety hazard for pedsstrians crossing Colesville Road with elimination of median strip, thus creating a zone of potentially greater danger from excessive speeds.
2. Creation of safety hazards for autos coning out of underpass at Four Corners for exit to Beltway-idest.
3. Disruption of neighborhood in the Leighton Avenus jug handle project.
4. Creation of traffic bottleneck at Sligo Creek Parkway through Georgia Avenue with the added traffic.
5. The magnitude of expenditure for the construction of the Four Comers underpass and the length of construction time.
6. The disruption and damage to the business community at Four Cornsrs by the underpass construction.
7. Inability of pedestrians to cross Colssville Road to use public transportation with only one pedestrian overhead walkway.

I believe additional study and considsration of this project is necessary to determins the best option available to alleviate if not solve the traffic conditions both present and future. Added emphasis should bs placed on:

1. Utilization of light rall along the Route 29 Corridor.
2. Additional pedestrian overhead walkways between Beltway and Sligo Creek Parkway
3. Coordination with Montgomery County Transportation Department for determination of necsssary facilities to accommodats the added traffic (bottleneck) from Sligo Creek Parikway to Georgia Avenue prior to the beginning of any confrom situation work on Colssilile Road between Four Corners and Sligo Creek Parkway.

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nectar, office of


Sincerely yours.
Howard 4 . Becker

Mr. Howard M. Becker
9618 Sutherland Road
Silver Spring, Maryland 20901
Dear Mr. Becker:
This letter is in response to your letter of February and regarding our project planning study on US 29 between Sligo creek regarding the patuxent River. The comments you have provided on the and the Patuxent River. The comments alternatives. effect to the southern portion of the study area y are appreciated. This information will be given a thorough consideration in our development of a preferred alternative.

In consideration of your comment about the Leighton avenue jug-handle, this reroute of traffic will not be necessary. The only alternative under which this would have occurred has been designated "not preferred".

The appropriateness of a light rail system on US 29 has been thoroughly evaluated. From a study performed by the maryland Department of Transportation, Office of Transportation planning entitled "US Route 29, Transit Alternatives, Light Rail vs. HOV lane (s)" it was determined that an HOV lane network and an express bus system was about three times more effective at addressing the unique transportation needs of this corridor than a light rail system. A copy of this report is attached.

We feel that under the alternative in which the median is removed there would be several places to safely cross US 29 between Sligo Creek Parkway and I-495. In addition to the proposed pedestrian overpass at Granville Drive, you would be able to cross at the signalized intersections at sligo Creek Parkway and Franklin Avenue, The tor would be set to ensure ample time is proviso be constructed ross co the other us 29 ala long both sides of US 29 so that pedestrians can get to these crossing points

The analysis of traffic engineering changes to the silver spring Central Business District is currently underway. We are Springing closely with Montgomery County Department of Transportation and their consultant on this study. It includes an examination of the capacity of US 29 between Sligo Creek Parkway and Georgia Avenue. The objective of their study is to provide changes to manage traffic that is consistent with the Transportation Management District legislation enacted by Montgomery County.

My telephone number is 1301 )
 more Metro - 707 North Calvert Si.. Baltimore. Merylend 21203-07

Mr. Howard M. Becker
Mr. Howar
Page Two

I would like to thank you for your interest in the highway development process as it relates to this study. please contact me or the project manager. Mr. Randy Aldrich, if we can provide 333-1139. Randy

Very truly yours.
Nill flelesom
Neil J. Pedersen. Director
Office of Planning and Preliminary Engineering
NJP/ih
Attachment
cc: Mr. Michael Snyder Mr. Louis H. Ege. Jr.

处

# CONTRACT NO. M 425-101-370 <br> US ROUTE 29 <br> SLIGO CREEK TO THE PATUXENT RIVER PDMS NO. 152019 

$\frac{\text { Display Review }}{\text { November } 30,1988}$
Name Penflopre T. Carcia
Please address 804 Forest crinten Road
PRINT
cityitown. Siluen Soring staten mole $\qquad$ $21 P$ CODE 20901

I/we wloh to comment or inquire about the following aapecta of this project:
 Please add mylour namelsi to the Molling Lisi.*

## Plaeea dalote mylour nama(s) from the Malling Llet.

*Parsons who hava rocolved e cogk of this brochure through the mall ere already Parsons who havating List.
on the project Maiting


RE: Contract No. M 425-101-370 US 29: Sligo Creek Parkway to the patuxent River at the Howard County Line pDMS No. 152019

Ms. Penelope T. Garcia
804 Forest Glen Road
Silver Spring, Maryland 20901
Dear Ms. Garcia:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative.

The project team is keenly aware of the characteristics of the surrounding neighborhoods, and has made every attempt to protect the cohesiveness and safety of these communities. The Draft Environmental Impact Statement prepared for this study four Corners communitis it was determined there is no adverse our corners iddionally, although the jug-handle proposal provides ertect. oparation proposal provides desirable service levels in the design year, 2015.

I would like co thank you for your interest in the highway development process as it relates to the US 29 planning study. please contact us again if we can provide any further assistance.

## Very truly yours.

Louis H. Ege, Jr.
Deputy Director
Project Development Division
by:


Project Manager
Lhe/ahs/ih
cc: Mr. Michael Snyder

My teleohone number is 13011 _33-___1139
Telelypewriter for impalred Hearing or Speech
ore Meiro - $565-0451$ D.C. Meirred $-1-000-492-5062$ statewide toll free 107 Norih Calvert St.. Bailimore. Marylend 21203-0 17

NORTHWEST BRANCH CITIZENS ASSOCIATION

Mr. Neil J. Pedersen
Director, Office of planning
State Highway Administration
707 North Calvert Street
Baltimore, MD 21202

## RE: Route 29 Development

Dear Mr. Pedersen:
The Northwest Branch Community recently went through a lengthy hearing before the Maryland National Capital Park and Planning Commission with respect to the proposed development of a 136 low/moderate income townhouse development which has its development was to the traffic problem that would be created because of the difficulty of exiting onto Route 29 and the resulting traffic flow through the $25-f \circ o t$ wide residential streets of our comminity.

Because we have taken an active interest in the state Highway Administration plans for major development of Route 29, we asked for the views of your Department concerning the proposed 136 unit townhouse development on Hillwood Drive. The response of Michael Snyder, District Engineer, dated June 6, 1988 (copy enclosed) called for an additional left turn lane at the intersection of Lockwood Drive and Route 29 and otherwise raised no objection to the Hillwood Drive development. Our pleas to the Maryland National Capital Park and Planning Commission to delay approval of the new project until the plans of your agency were published went unheaded. The project preliminary plan was approved in September, 1988 subject to several conditions, among which was that the developer pay for construction of the additional lane on Lockwood orive. Now, less than 6 months after we raised this issue to your Department, State Highway is proposing to exacerbate our problem by sealing off Hillwood Drive entirely under at least two, and possibly all three of the development plans for Lockwood Drive (Alternate C). This would throw all traffic from the new development, plus the storage warehouse now under construction on Hillwood Drive, plus traffic from the Colewood Center office building onto the residential streets of Stoneyhill Drive and Meadow Hill Drive where it exits onto Lockwood Drive. This will result in an intolerable traffic hazard and threat to the safety of our residents.

Mr. Neil J. Pedersen
Page 2
Eebruary 7, 1989

While we applaud your efforts to improve traffic flow on While we applaud your should not attempt to make it an Route 29, you cannotraffic lights, all median dividers, and all expressway. Allot cannot be eliminated without major traffic, safety and environmental impact on existing neighborhoods

On behalf of the Northwest Branch Citizens Association, I strongly urge the State Highway Administrationals from the Route strongly urge the state 4,4 and 5 design proposals from the Rout 29 development plans.

Very cordially yours,
NORTHWEST BRANCH CITIZENS ASSOCIATION

By Robert Platín Robert Plotkin
10706 Stoneyhill Drive
silver Spring, MD 20901

Enclosures
ce: Mr. Thomas Schild

5. Site plan to show one hundred foot undisturbed buffer along park and undisturbed buffer along the eastern property line, adjacent to the single ramily homes. (Dimensions of buffer on eastern property line to be determined at site plan approval.)
6. Execution of Regulatory Agreement between applicant

Preliminary Plan $1-86083$
Project: Andris Property
Action: Approval with conditions. (Motion by Commissioner Keeney, Seconded by Commissioner Henry, with a vote of 4-0, Commissioners Keeney, Hewitt, Christeller and Henry in favor, Commissioner floreen absent.)

On March 13, 198G, Andris Realty, Inc. subaitted an application for the approval of a preliminary plan of subdivision of property located in the RH and R-90 zones. The application proposed to create 136 dwelling units preliminary plan l-86083. The application was designated

On November 12, 1987, June 23, 1988 and August 11, 1988 Preliminary Plan 1-86083 was presented to the Montgomery County Planning Board for a public hearing pursuant to the Montgomery County Code (Subdivision Regul Chapter 50 of Rules of Precy County Code (Subaivision Regulations) and the of the Maryland-National Montgomery County Planning Board Commission. The Planning Copar Park and Planning evidence into the record. Based upon the testy and received evidence presented and the breliminary the testimony and Vidence presented and the preliminary plan itself, the 1-86083, under Housing subject to the following conditions. Affordable Housing subject to the following conditions:

1. Agreement with Planning Board to provide Intersection Improvements at Lockwood Drive and Route 29 ursuant to the July 28, 1988 Transportation Division prior to the applicant requesting and receiving building permits. (Planning Board to approve design) building
2. Dedication along Hillwood, forty, feet off center

## ine.

3. No clearing, grading or recording of lots prior to site plan approval by the Montgomery County Planning Board.
4. Number and location of units to be determined at site Plan.
and Housing Opportunities Commission as outlined in the Mrior 22, pria requirements of the Annual Growth Policy Special Ceiling
Allocation for Affordable Housing.
5. Necessary easements.
6. Conditions of Department of Environmental Protection Stormwater Management Waiver.

The applicant proposes construction of an affordable housing development on the subject property which is located on the south side of Hillwood Drive, 350 feet east of Route 29 in the Fairland-White Oak policy area. While a very small piece of the subject property abutting park property is zoned $R-90$, the overwhelming majority of the land is in the $R-H$ zone. The application for preliminary subdivision the seeks approval for the construction of 31 townhouses and 105 garden apartment units. The Board notes that in the $R-H$ zone (Multiple-tamily, high-rise planned residential), the applicant could conceivably receive approval for the construction of over 400 units.

In approving a preliminary plan, the Board must deternine that public facilities will be adequate to support and service the area of the proposed subdivision. $1 /$ public facilities to be examined for adequacy include road, public transportation facilities, sewerage and water service; schools, police stations, firehouses and health clinics The guidelines, methods and criteria to be used by the Planning Board and starf in determining the adequacy of pubilc facilities are contained in the fiscal year 1989 Annual Growth Policy approved by the Montgomery County Council in the form of Resolution Number 11-919, on June 28, 1988.

The Annual Growth Policy referenced above provides a special growth ceiling for affordable housing. The special ceiling is an exception to the requirements of $550-35(\mathrm{k})$ and provides as follows:
( $(c)$ Special Ceiling Allocation for Afford-
able Housing The county's policy of balancing

[^2]growth in each policy area with the supply of public facilities, set forth in the Adequate through the Annual Growth Policy, has the effect of preventing the accomplishment of another important county police; i.e., the provision of a balanced ad affordable housing for $10 W$ and moderate income families. To encourage the provision of a housing supply which fosters the availability of affordable housing for low and moderate income families, the Planning Board may approve affordable housing subdivision applications in any policy area with insufficient net remaining capacity, according to the following guidelines:
(i) An affordable housing development is defined as housing development which is either owned by the Housing Opportunities Comuission or by a partnership In which hoc is the general partner; or, a privately wre ocupied by households at or belou 50 the units median income, adjusted for family size or 404 of units are occupied by households at or below 60\% of the area median income, adjusted for family size. such a development must be certified by HOC as having met the development must be certiried by HOC as having met the development must enter an agreement with HOC to maintain the occupancy requirements for a period of at least 15 years.
(ii) For projects owned or controlled by HOC, the Planning Board may approve affordable housing developments which include up to 125 units in a policy area with insufficient net remaining capacity or, in the alternative, for privately owned affordable housing developments, the planning Board may approve projects which include up to 250 units in a policy area with insufficient net remaining capacity.
1
(iii) Countywide, no more than 1000 units may be approved under this staging ceiling amendment in FY89.
(iv) Affordable housing developments approved under this increase in the staging ceiling must meet the standards of Local Area Review. (See Section (2), Local Area Review, below).
(v) Developments approved under this provision will be added to the pipeline of development.
(d) Ceiling Flexibility for Developer Participation projects.

4

Staging. Ceiling Flexibility allows the Planning Board, after considering the recommendation of the County Executive, to approve a preliminary plan application staging ceiling to be exceeded, caution allowing the exercised to assure the average, caution should be relevant policy area is not adversely affectice for the otherwise expressly stated in this subsection. Except as level of service criteria already subsection, the same growth policy shall be used in evaluating an applicationual be approved under these ceiling flexibility application to

While providing the special ceiling for affordable housing, the Annual Growth Policy requires that any application be approved under Local Area Review standards prior to receiving Planning Board approval. Local Area Review is an evaluation, a local analysis applied to assure that new development is not allowed to cause unacceptable congestion at individual intersections or roadway links within a Policy Area. The Local Area Review process must be undertaken for subdivisions which will generate more than 50 peak hour automobile trips under the following circumstances:

## In the Policy Area where the total approved ; development is within 5 percent of the policy area ceiling or

## In the Local Area where the proposed development is located near a congested area.

The proposed development described in this application is located in the Fairland-White Oak Policy Area. It is 350 feet east of Route 29 (Colesville Road) and is near the intersections of Route 29 and Hillwood Drive, Lockwood Drive and Meadowhill Road and Lockwood Drive and Route 29. The intersection of Lockwood Drive and Route 29 is a critical ntersection that will be affected by traffic from this prefiminary plan.

Traffic from the development will have the option of travelling left on Hillwood Drive to Route 29 or travelling ight from Hillwood Drive to stoneyhill Drive and then to Meadowhill Road (which intersects Lockwood Drive and is controlled by a traffic signal). However, for purposes of the Local Area Review analysis calculations have been based on the assumption that all traffic will proceed down Stoneyhill. The Board notes that this development will place a greater number of cars on Meadowhill Road and has weighed and considered the concerns surrounding this issue as well as concerns regarding traffic generated by adjacent propertony and evidence presented by opponents to this testimony and evidence presented by opponents to this preliminary plan has been evaluated in conjunction with the

2/Montgomery County Code, Chapter 49, 549-34(e)
Ch. 49-34(e) Secondary Residential.
testimony, traffic study and evidence submitted by the applicant, the planning stafi, the state Highway and the office of planning and Profect Developantortion Montgomery County Government. The Board notes that the Meadoulli Road is a secondary residential road principal function of a secondary residential road is to provide direct access between a residential development housing less than two hundred families. $2 /$ This definit on the road code is not, however, regulatory requirement and the planning Board must consider the right of the property ouner to reasonable use of the property sinc traffic will be permitted to exit the development at either Hillwood and Route 29 or Lockwood Drive and Meadowhill Road, the Board finds that thear hour level of service uith the improvements reterred to in condition 1 , is acceptable the improvements reierred to in Condition 1 , is acceptable and passes local area review.
The Master Plan applicable to this preliminary plan is the Approved and Adopted Master Plan - Eastern Montgomery County Planning Area. The Master Plan refers to the County Planning Area, The master on in the preliminary plan on pages 138 and 139. The Master plan recommends that the property retain its current $\mathrm{R}-\mathrm{H}$ and $\mathrm{R}-90$ zoning to permit construction of a previously approved site plan for 136 townhouse and triplex units. Although this preliminary plan proposes townhouses and garden apartments, it is the same layout as was before the Board during consideration of the Master plan. . It proposes the same number of units as that which was approved at the time of the publication of the Eastern Montgomery County Planning Area Master Plan. In accordance with 550-35(1), ordinance Number 11-28, Subdivision Regulation Amendment 88 1, effective July 25, 1988), the Planning Board Einds that Preliminary Plan l-86083 substantially conforms to the applicable Master Plan, maps and text.
$\square$ garden apartments, it la plan. It prot

A: ©Andxis.Bak

June 6, 1988

| MEMURANDUM |  |
| :---: | :---: |
| TO: | Creston mills. Chied <br> Eureau Ei:gineerinǵ decess Permits |
| FROM: | Michael Snyden District Engine? |
| SUBJECT: | US 29 at Maryelind kdut $\{195$ Montgomery County |
| RE: | Preliminary Plan No. 1-86083 Andris Propenty |
| This is in response to receipt of the eraffic impact analysis for the neferenced development for review and comment. |  |
| My traffic engineering staff has reviewed the impact analysis as well as other conrespondence received from the traffic consultanc. The neview of this development indicates the cricical intersection is the identified subject intersection and that with construction of the proposed additional westbound Maryland Route 895 left airr lane to provide for a triple left turr tie impact of this development will be tatally mitigated. Therefore, it is our necommendation the referenced development will not further deterionate capacity along the US Route 19 corridor. |  |
|  |  |
|  |  |
|  |  |
| If further comment or discussion is necessary, please contact Maj Shakib at the number below. |  |
| MS:WJC:co <br> cc: Bud Leim, M-ncPPC |  |




Mr. Robert Plotkin
Vice President
Vice President Northwest Branch Cltizens Assoclation
No706 Stoneyhili orlve
sliver Spring, Maryland 20901
Dear Mr. Plotkin:
This letter is in response to your correspondence of february th regarding our project planning study on US 29 in Montgomery 7 th regarding our profect comments of how your communty will be County. and 5. This Information wili be considered in our development of a preferred aiternative at ihls iocation.
prour ralsed were also brought to our attention
The concerns you ralsed were also by Senator Ruben who thoroughly discussed

Our current criterla recommends no access of designers rigidy observed roadways onto interchange ramps. our desiguationas a ramp, but thls criteria. I tend to not view this situat ontreet. When viewed as part of the non-access controlied areason to close the intersecfrom thls perspective, there tion of Hlilwood Road with northbound modifylng all three concepis ro the relationship of the study planning team is keeniy aware alternatives and the pending

I want to thank you for your interest in the hlghway develent process thank piease contact me or opment process as it relares Aldrleh, If we can provide further the profect manager, Mr. Randy number in Balitmore ls 333-1i39. assistance. Randy very truly yours,
Aait 4. fiedersem to

Neli J Pedersen, oirector
Office of Planning and Preliminary Engineering

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NJP/lin
c: Senator Ida Ruben
    Mr,Mlchael Snyder
    Mr. Louls H Ege, Jr.
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Teletypewriter for Impelred Heerling or Speech stanalde Tall Free 383-7555 Battlmore Metro - 565-045t O.C. Metro- 1-800-492-5082 Stan

9039 Sligo Creek Pkwy., No. 1501 Silver Spring, Maryland 20901 February 8, 1989

Mr. Neil J. Pedersen, Director
Offics of Planning and Preliminary Engineering
State Highway Administration
p.O. Box 717

Baltimore, Maryland 21202
Dear Mr. Pedersen:
I wish to voice my support for the grade separation option at the US 29/University Boulevard (Md. 193) intersection, which is one element of the alternates being considered in the State Highway Administration's (SHA) US 29 Study. I believe this improvement is basic to any overall scheme intsnded to address the long-term travel needs of the US 29 corridor.

I feel that this intersection is currently the primary cause of existing congestion in this corridor. It is a problem not iimited only to a peak hour of weekday commuter travel; congestion occurs for extended periods as well as during other hours of the week. This situation presents a psychological barrier which discourages general travel along US 29 and tends to divide eastern Montgomery County north and south of University Boulevard.

Furthermore, during the PM peak the queues from this intersection frequently block access between northbound US 29 and I-495. Since this situation exists under present conditions, I believe it is most important that a solution to this problem be a basic element of the longer range program adopted by the SHA to address the transportation needs of the US 29 corridor.
The jug handle option for accommodating turn movements between US 29 and University Boulevard (Md. 193) may offer opportunities as an interim improvement. It appears that several aspects of this option can be implemented in the short term; it may then be possible to determine the imitations of this option. I have the following comments which help explain my concerns of why

1. I have not observed the jug handle being used now as an Universite approach for making left turns from US 29 to could be arqued that current present difficulties. It signed; and b). there is no separate rig option is not allow bypassing of the traffic queue. How the turn lane to there are additional considerations as well. The weave there are additional considerations as well. The weave do not find it safe to merge with the eastbound University Boulevard traffic and then weave over to the jug handle when traveling to the woodmore shopping center. Furthermore, the horizontal and vertical geometrics of University Boulevard can make the merge with University Boulevard difficult when vehicles are approaching with any speed. When University oulevard volumes are heavy during the peak periods crossing several lanes is also difficult because of the lack of traffic gaps within such a limited distance.
2. As a result of the conditions described above, I would anticipate that the following operating conditions would exist if the jug handle operation were implemented given the current alignment of University Boulevard.
a. The separate right turn lanes on US 29 would not function as free flow movements; they would be elther signal controlled, or drivers weaving across to the jug handles would likely stop for safety reasons until there is a clear break in the University Boulevard traffic. One stopped vehicle would prevent the free flow.
b. I would expect that the jug handle intersections with University Boulevard to be signalized given the merge, University Boulevard to be signalized given the merge,
weave, driveway conflicts, and volume/speed of oncoming wehicies on University Boulevard.
3. The total vehicular volume in this corridor is projected to increase considerably over the 20 year forecast period. A component of this increase would be year forecast period. I also anticipate that bus service in the corridor wili increase noticeably. The net increase in traffic which will attempt to negotiate these jug handles, coupled with the anticipated signalization to accommodate the weaves and merges on University Boulevard, I expect will result in
queues which will impede through traffic on University queues Boulevard. The left turn circulating volumes themselves will result in increased volumes on University Boulevard between the jug handles.
4. The additional congestion which appears inevitable to me over the study period with the fug handle option i feel wised result in additional driver frustration and increased accidents. With the accidents will come virtual through the US $29 /$ University Boulevard intersection.
In sumary, i believe that while the jug handle option may offer interim improvement at the US 29/Universify mations are intersection if necessary operational modifications are undertaken, the long term solution for this $10 c a t i o n$ should be a basic a grade separation. This grade separation should bing term element of any overall plan to address without a grade transportation needs of this corridor. 495 from Silver Spring separation, I feel that future access be severely constrained. and points south via US 29 could be severely Boulevard could Furthermore, the congestion aring movement between upper and lower eastern Montgomery County.

Thank you for consideration of my comments.


9039 Sligo Creek Pkwy., No. 1501 Silver Spring, Maryland 20901 March 13, 1989

Mr. Neil J. Pedersen, Director
Office of Planning and Preliminary Engineering
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21203-0717
Dear mr Mpidibrsen:
Thank you for your response to my correspondence regarding my support for the grade separation being considered for the US 29/University Boulevard (Md. 193) intersection.
I strongly endorse moving ahead expeditiously during the "window of opportunity" you cite for implementing the grade separation. Furthermore, I feel that the commitment by elected officials to follow through with the grade separation is necessary before any such measure as removal of the median on Colesville Road is undertaken, which $I$ characterize as a major action that could be justified only as part
the grade separation.

No response to this follow-up letter is expected, other than the normal notification of the progress of this study. Thank you for considering this clarification to my earlier comments.


## RECEIVED

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Marland Department of Transportation
State Highway Administration
March 3, 1989

Mr. C. Cralg Hedberg<br>No. 1501 Creek Parkway<br>Sliver Spring, Maryland 20901<br>Dear Mr. Hedberg: Cra'g

This letter ls In response to your correspondence of february ath regarding our project planning study on US 29 in Mont fomery County. l appreciate your professional oplnion about the existing traffic congestlon at Four Corners. Your comments and your endorsement of the grade separation at this location will be thoroughly considered in our devolopment of a preferred alternative.

As you point out, the operating characteristics of the atgrade proposal are complex. $\begin{aligned} & \text { agree there is perhaps some misaing } \\ & \text { opportunlty in motorlats avolding ues }\end{aligned}$ opportunlty in motorlats avolding uage of the current jug-handie turn lanes. We have studied Intersection Improvements at four Improvements that in aome cases make we identilied short term have decided to awalt the outcome of use of these jug-handies, we have declded to awalt the outcome of thls study before Implemen-
tation

The current at-grade proposals have been studied In detall by our Trafile Division with an emphasis on how the improvement 29 destlned to the jug-handies will probethat right turns from US unlmpeded opoortunlity to cross over probably back up to awalt an Unimpeded opporiunliy to cross over to the jug-handies. This is was based on trafitc significant problem. Also, thelr analysis jug-handies. Slgnal queves were estimated and were determined be manageabie.

From a best-of-all-worlds scenarlo, it would be advantageous to Implement the at-grade proposal now and construct the grade aeparation at a later date. Unfortunately, such a scenario is not consistent with our complex staging and malntenance of iraffec plans for constructing the grade separation. We feel that we withln the near future fic orowth will be all that more difflcult to malntain during construction.

$$
\begin{aligned}
& \text { Mr. C. Cralo Hedberg } \\
& \text { Page } \\
& \text { Two }
\end{aligned}
$$

I would like to thank you for your interest In the highway development process as it relates to thls study. Please contact me or the project manager, Mr. Randy Aldrich, if we can provide further assistance. Randy's telephone number In Baltimore is
(30t) 333-ti39.

Very truty yours,

## Nail

Nell J. Pedersen, Director Offlce of Planning and Preliminary Engineering
NJP/lh
ce: Mr. Mlchael Snyder
Mr. Louls H. Ege, Jr.

|  | $\begin{gathered} \text { OROJECT } \\ \text { DEVEDAP: } \\ \text { D! } \end{gathered}$ |  |  |  |  |
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| STATE HIGHWAY ADMINISTRATION |  |  |  |  |  |
| QUESTIONS ANDIOR COMMENT |  |  |  |  |  |

CONTRACT NO. M 425-101-370
US ROUTE 29 TUXENT RIVER
PDMS NO. 152019

## Display Review

name James \& Brizbaila KISH
PLEASE ADDRESS 10009 LORAIN AVE
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$\qquad$
$\qquad$ ZIP CODE 20901
/We wiah so co-ment or inguire sbout the following aspects of this protect:
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*Persons who heverecolvad
on the project Melling List.

Maryland Department of Transportation State Highway Administration

## March 6, 1989

RE: Contract No. M 425-101-370 US 29; Sligo Creek Parkway to the Patuxent River at the Howard County Line
PDMS No. 152019

Mr. \& Mrs. Rish
10009 Lorain Avenue
silver Spring, Maryland 20901
Dear Mr. \& Mrs. Kish:
This lettor is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comments are appreciated and will be givnative. consideration in the selection of a recommended alternative.

The State Highway Administration is committed to working with Montgomery County Department of Transportation project team alloviate cut through traffic at Four Corners. is keenly aware of the characteristics of the protect the neighborhoods, and has made every atcenties Measures to cohosiveness and safety of these comme implemented prior to the alleviate undesirable traffic would be for the proposed grade onset of an separation.

The planning team has developed a complex maintenance of four traffic plan for the construction of the grade separation at Four Corners in order co minaly adds to the time and cost of fact this plan significonifered vital part of the plan. construction but is considered a vital part of the plan.

## Mr. \& Mrs. Kish

Page Two

I would like to thank you for your interest in the highway development process as it relates to the US 29 planning study. As requested, your name has been added to the project mailing list. Please contact us again if we can provide any further assistance.

Very cruly yours.
Louls H. Ege. Jr.
Deputy Director
Project Development Division


LHE/AHS/in
†L-II $\Lambda$
cc: Mr. Michael Snyder


## Manland Department of Transportation State Highway Administration

> CONTRACT NO. M 425-101-370 US ROUTE 29
> SLIGO CREER TO THE PATUXENT RIVER

PDMS NO. 152019


## March 6, 1989

RE: Contract No. M 425-101-370 US 29; Sligo Creek Parkway to the Patuxent River at the Howard County Line
PDMS No. 152019

Ms. Hazel M. Ewing
13731 Avonshire Drive
Silver Spring. Maryland 20904
Dear Ms. Ewing:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery County. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative.

The responsibility of the project planning team is to identify prudent and feasible alternatives to transportation deficiencies within specific areas. At the location of the proposed Intercounty Connector (ICC) and Briggs Chaney Road there are six differing concepts within the grade separation alternative. Each of these, including Alternative $C-2$ and $i t s$ mated Alternative $D$, Concept 3-2, had merit in solving the inadequacies at this location. All of the study alternatives including the two that severely affect the Avonshire community were subjected to the same scrutiny. The updated mapping which better displays the extent of impacts, as well as correspondence from residents of your community, has led us to determine that these two alternative concepts are not preferred, Later this winter, we plan to formally delete them from further consideration when the study team meets to discuss public hearing testimony.

Ms. Ewing
Page Two

I would like to thank you for your interest in the highway development process as it relates to the US 29 planning study. please contact us again if we can provide any further assistance.

Very truly yours.
Louis H. Ege. Jr
Deputy Director
Project Development Division


LHE/AHS/ih
cc: Mr. Michael Snyder

# Tri-Community Group 

Cl ımbia Towers<br>

Stonehedge

FEB - 9 …

Mr. Louis H. Ege, Jr
Deputy Dire
State Highway Adminietration
707 North Calvert Street, Room 506
Baltimore, Maryland 21201
Dear Mr. Ege:
The Tri-Community Group is pleaeed to have the opportunity to provide comments on the U.S. Route 29 trom Sigo The Tri-community

columbia Towers Condominium and Stonehedge/Bronzegate Condominium. our group is bound on the west by old cy Maryland Pike, on the north by Induetrial Parkway, on the
Industrial Park and on the south by Paint Branch.
The taek of addressing the traneportation needs in this corridor le complex at leaet and with no clear-cut answer for each intersection problem. Many of the induals along and across the the need to better transport individuals Maryland State Highway corridor are outside the control or the Mat road improvements, expansions, Administration - pointing out that road improvement etc. in and by themselves will not resolve the county. With that tion needs or problems of eastern Montgomery cral recomundations premise in mind, we submit the following genall follow with some for any design changes along Route Industrial parkway/Tech Road speciric

## GENERAL RECOMPENDATIONS

HOV Lanes. Any consideration of HOV lanes in the Route 29 corridor ehould be thoroughly evaluated. other corridors, corridor ehould be the more intensely considered for HOV as such as to "squeezing" this mode of transportation into the median of Route 29 . While we realize that the hov fund of is being provided by the Montgomery County Department such is being pransportation, we must consider the effectiveness of such an HoV concept when at ite southern terminus, there traffic way to logically or smoothly merge the two types or trafte
without major congestion. Additionally, we are not convinced that having 2-1ane HOV north of Route 650 and 1lane HOV south of Route 650 would be efficient or conducive to HOV travel.

Green Space. As an adjunct to our commente on HOV (above) we are extremely concerned about maintaining the median strips as green spaces. Additionally, We encourage any and all efforts by the State Highway Administration to preserve aesthetic and noise abatement principles.
Intereections. Although the intersection improvements were preeented in groupings, we would not eupport a blanket treatment for all intereections. Generally, we would recommend grade separated intersections for main arterial roade only, i.e. Route 650 (existing); Randolph Road; ICC and Route 199. We encourage an extended evaluation perlod of the jug-handle concept for the Four Corners area befor coneldering more drastic improvements.

Sidewalks/Bicycle Traile. We oppose any attempts by the State Highway Administration or othere to convert Route 29 into an I-270. Introduction of sidewalks and bicycle trails adjacent to the roadway and the exclusion of medians with ereey barriers or roadsidee with manmade sound barriers will nelp insure a "non-interstate h ighway" corridor.

SPECIFIC RECOMAENDATIONS FOR INDUSTRIAL PARKWAY/TECH ROAD INTERSECTIONS
ae a group of commuitise that has only one route for vehicular ingrese and egress along Old Columbia pike (north of Paint Branch), we are extremely concerned about preserving the least circuitous route of acceseing Route 29 both to the north and south.

With this premise in mind, we recommend Alternative B,
concept if for the Industrial Parkway and Tech Road intersections with the following modifications:
A. Add a left turn signal for southbound traffic on Route 29 at Industrial Parkway.
B. Institute a right-turn-on-green arrow for northbound Route 29 traffic during the rush hour periods, allowing a delay for right turn on red at the beginning of each cycle onto Industrial Parkway. Thie will allow

Mr. Raymond C. Weigel
Mr. Kirk Kidwell
Ms. Kirk Kidwell
Ms. Karen
Page Two

- Regarding preserving green space and the retention of the median, we agree, it has positive benefits. Froma practical viewpoint, the median of roadways in urbanized areas is regarded as our hedga against future traffic growth. The median is generally used to provide addi sides of the roadway. Along US 29, we are committed to working with Maryland-National Capital Park and Planning working with Maryland-National capical park and commission on a design of any selected improvement that effect of the green space within the median, is a consideration that could be made.
- Regerding the appropriateness of at-grade improvements in this corridor, we agree that some of the mejor intersections have existing, and proposed, treffic forecasts that exceed the capacity of a multi-lane Boulevard/Tech Road, Randolph Road, Briggs Cheney Road end MD 198. Unfortunately, the current master plan poorly correlates land use with the need for grade separetions. At Four Corners, we feel there is a window of opportunity within the near future to build the grade separation and provide an acceptable level of traffic congestion during the construction stages. This makes it very difficult to build an initial at-grade improvement which would be followed by the complex grade separation. Building the grade separation after cen to fiftaen years of edditional tratfic growth has occurred may $t=311$ but impossible.
- Regarding the design specitics of the Industriel Boulevard/Tech Road locarion, I inci $=2 t e d$ above that this is one of the locations where retention oi the atgrade intersection is going to be very difficult. traffic forecasts at this point in the corridor. I have greatest growth or any location in the corridori intersection to our district engineer so that they may be incorporated into any interim improvements that are underway or planned. The eastward shift of the old Columbia Road/Industrial Boulevard/Prosperity Drive intersection is a change associated with the grade volumes of treffic using the right-on, right-off ramps to and from us 29 are going ro be extensive. Unsafe operations will exist if undesirable radii are provided on these ramps. The only way to provide the proper on these ramps. The only way to provide the thift orientarion of this intersection. Also, we have no plans to provide a slip ramp further --...i -inm nit rnlumbia pike

Mr. Raymond C. Heigel
Mr. Kirk Kidwell
Ms. Karen Bartol
Page Three

Again, thank you for your continuing interest in the highway development process as it relates to this study. please contact us again if we can provide furcher assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Director
Project Development Division


Lhe/rca/ih
cc: Mr. Neil J. Pedersen
Mr. Michael Snyder (with incoming)

## Maryland Department of Transportation

Richard H. Trainor Secralar
Hal Kassof Administrator
vehicles northbound on old Columbia Pike attempting to turn left onto Industrial Parkway to do so more safely.
2. If the State Highway Administration chooses to ignore our recommendations of the modified Alternative $B$, Concept $I$, we wish to put into the record the following comments for Alternative C:
A. Concept 1 is totally unacceptable because of the cur-de-sac configuration on either side of Tech Road.
B. If Concept 2 is the preferred alternative selected by the State Highway Administration, we see no reason to reorient the Industrial parkway/old columbia Pike/Route 29 intersection away from the existing alignment. Removal of pavement and no left turn signs should eliminate any concern for additional traffic congestion in the area. The only land acquisition in this area should be for sidewalk construction between Industrial Parkway and Stewart Lane along Old Columbia Pike.
3. Introduction of any slip ramps from Route 29 onto Old Columbia Pike (northbound) between Paint Branch and Industrial parkway is strongly opposed by the tri-community Group. (See enclosed correspondence)
We hope our comments are useful to you, the planning staff, consultants and Montgomery County Department of Transportation in determining the most effective and economical ways to improve our transportation syst without alternatives will have on the and enviconer

If you need clarification on any of our recommendations, please If you need clarification on any of our recommendations, please
contact Ms. Kitty L. Roberts, 11915 old Columbia pike, Silver Spring, Maryland 20904 or by telephone (daytime) at (202) 4859836 .

Sincerely,

Raymond C. Weigel, Pres.


Stonehedge Kirk Kidwell, Pres.

Kan rubato Columbia towers Karen Bartol, Pres.

March 8, 1989
Re: Contract No. M 425-101-370 US Route 29, Sligo Creek to the Patuxent River
PDMS No. 152019

Mr. Raymond C. Heigel
Mr. Risk Kidwell
Mr. Kirk Kidwell
The Tri-Community Group
11915 Old Columbia Pike
Silver Spring. Maryland
Dear Tri-Community Group Representatives:
This letter is in response to your recent correspondence regarding our project planning study on us 29 in Montgomery County. I appreciate the review of the study alternatives in this project made by you group. This information will be given a thorough consideration in our development of a preferred alternative.

Regarding your general recommendations for the study and your specific recommendations for the Industrial Parkway/Tech Road intersections. I want to provide some further comments.

- Regarding the development of Hov lanes solely along the US 29 corridor, I want to bring to your attention a study that is underway. The current statewide "Commuter Assistance study", initially known as "A study of the Appropriateness and Applicability of light Rail Transit In Maryland, is looking at about 28 corridors in Maryland where there is a market for more intensive logical scenarios being investigated are heavy rail. light rail, commuter rail. express buses and HOV lanes. It has identified I-95 as a good candidate for HOV lanes Also Montgomery County is investigating land use assumptions that would support the development of use lanes. The proposed intercounty Conector is in the list of study roadways.

SLIGO CREEX TO THE PATUXENT RIVER PDMS NO. 152019

# NAME 

$\qquad$ ATE 1/29/89

PLEASE
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9409 Thornhil1 Rd.
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Ptease add my/our namels) to the Maliling List.*
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Persons who have recelved a copy of this brochure through the mall are aiready on the project Malling List.


## Maryland Department of Transportation State Highway Administration

## 29/sp

Richard H. Trainor
socterary
Hal KassoH
Administrator

## March 9, 1989

RE: Contract No. M 425-101-370 US 29; Sligo Craek Parkway to the Patuxent River at tha Howard County Line PDMS No. 152019

Ms. Jana L. Lawson
9409 Thornhill Road
Silver Spring. Maryland 20901
Dear Ms. Lawson:
This letter is in response to your recent correspondenca ining to the project planning tudy of US 29 in Montgomery partaining to the project planneciated and will be givan thorough County. your comments are appreciated commended alternative. consideration in the selection of a recom.

Let me assure you that the project team is keenly and has the characteristics of the surrounding naighborhoods, and has made every attempt to protect tha conesiveness and streets is not these communities.
treffic forecasts devaloped for the US 29 corridor are
The traftic forecasts devaloped based on travel demand generated from approved. The extension of Eastarn Montgomary County and METRO'g terminal station to the No-Build Alternative at Four Corners.

A raport antitled "US Route 29 Transit Alternatives Light ail vs. HOV Lane (s)", was prepared by Maryland Department of Rail vs. Transportation's Office of Transportation Planning. The report. which compared operational characteristics, appropriatanass an which compared and capital costs of each system is attached with us operatis letter. Tha study datermined that light rail within tha us 29 corridor had some major deficiancies: namely, tha unavaila bility of large parcels of land diractly adjacent to tha highway for the davelopment of park and ride lots and/or stations: diversity of the trip origins and destinations; andition, the associated with construction and oparation. Inadestrians and mixture of light rail vahicles, autor neighborhood facilities presents major safaty

My telephone number is 13011



Ms. Lawson
Page Two

It is important to note that throughout the development of the High Occupancy Vehicle Lane(HOV) system its flexibility has been emphasized. Operating the HOV system within the median of US 29 would not preclude the development of a light rail system in the future.

I would like to thank you for your interest in the highway development process as it relates to the US 29 planning study. Please contact us again if we can provide any further assistance.

Very truly yours.
Louis H. Ege. Jr.
Deputy Director
Project Development Division


## LHE/AHS/ih

## Attachments

$\sum$ cc: Mr. Michael Snyder

CONTRACT NO. M 125-101-370 US ROUTE 29
SLIGO CREEK TO THE PATUXENT RIVER PDMS NO. 152019

| $\frac{\text { isplay Review }}{\text { Ovember } 30,1988}$ |  |  | ESTRRく, | $\begin{aligned} & \text { Public Hearing } \\ & \text { January } 25,19809! \end{aligned}$ |
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IW, wish to comment or inquire obout the following aspecta of thleprofect:


(3) TRAAFFiC SOLUTIDN: STFND tour MiLLIONS ON A SUS SYSTEM THAT IS NOT A TOKE. RESKRVE CURS LANK FOR BUSES/KAN LODLS ONLY DURING RUSH ITOUR, A HANE BUSCS EUKRY 2-3 MINUTES FOLKS SiTING IN CARS, wNTCANu
 Ploase edd mylour nemolsi to the Melling Lisi. Puskie ThApolsforstion, $\square$ Ploese delete my/our nemetsi trom the Melling List. 万TEM (3) SOLJTION CSN DE




March 9. 1989
RE: Contract No. M 425-101-370 US 29; Sligo Creek Parkway US 29; Sligo Creek Parkway
to the Patuxent River at the to the Patuxent River
Howard County Line PDMS No. 152019

Mr. Donald M. Esterline 301 Prelude Driv Silver Spring, Maryland 20901 Dear Mr. Esterline:

This letter is in response to your recent correspondence pertaining to the project planning study of us 29 in Montgomery County. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative.

Your support of Alternative C-2 at Four Corners is appreciated. The planning team has devised a complex maintenance of traffic plan to maintain access to the businesses during the construction period. In fact, this plan substantially adds to the cost and length of construction of the grade separation, but we feel it is a crucial part of the proposal

A bus lane system which operates in the right hand lane has been investigated for the US 29 corridor. Because of conflicts with turning vehicles and localized bus service, the express buses would not achieve the time savings necessary to effectively promote their usage

As $I$ am sure you are aware, a traffic signal will be installed at Prelude Drive by the end of March. In addition Montgomery county Department of transportation will be onstructing sidewalks on the west side of US 29 between Oakleaf Drive and Burnt Mills Avenue. These improvements should improve the unique access issues associated with your community.

Mr. Esterline
Page Two

The extension of Childs Road between the Dumont Oaks community and the Burnt Mills community is not within our realm of responsibility. Briefly, Montgomery County, who does have chis responsibility, determined no access would be allowed between Dumont oaks and any of its surrounding communities at the time of subdivision. The officials at Maryland-National park and planning adhered to the wishes of these neighboring communities throughout the development process. I recommend you contact them if you need additional details.

I would like to thank you for your interest in the highway development process as it relates to the US 29 planning study As requested, your name has been added to the project mailing ifst to inform you of further project milestones. Please contact us again if we can provide any further assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Director
Project Development Division


Project Manager
LHE/AHS/ih ce: Mr. Michael Snyder

## TESTIMOHY FGR

COMBINED LOCATION/DESIGH PUELIC HEARIHIS<br>U. S. POUTE 29<br>FROM SLIGO CREEK TO THE HOYAPD COUHTY LINE<br>MARYLAHD OEPARTMENT OF TRANSPORTATIIN<br>STATE HIGHWAY AOMINSTP.ATIOH

Janiluary 25.1989

The white Uak Area Civic Coblition, estintished in 19i5, is an umbrells urganization with o membershlp of approxiniately 20 civic associstions in the Eastern Montgomery County Master Plan area. The purpose of the Coalition is to take an active part in the decision-making processes regarding planning, growth, and development in and around the ares of the Coalition. After actively participating in the developinent of the Eastern Montgomery County Master Plan, referred to hereafter as the Plan. the Coalition has contimed to monitor proposals for develupment within our area. We look forward to taking an active part in the review of the Plan's transpertation and land use lssues again starting next week.

The Coalition has followed the State Highway Adrninistration (SHA Route 29 Study closeiy and carefully considered the alternatives presented. we recognize that residents concerns will reflect a more intimate knowledge of problens in their area. This is not an attempt to preempt their rights. The land uses designated by the plan included areas of high denslty slong Route 29. This was done based on the stated fundamental airn of the Plan which was to reduce automodile dependence (see page 158 of Plan). The alternative transportation modes were to te public transit. ride-sharing, carpooling, vanpooling, riding bicycles, and walking. Probabiy less than half ai the proposed plans for various transportation iacilities have materiailzed, at least that's the status of the recommended area-wide road imprewernent $\equiv$ scheduled ior construction ty 1990. biven our
ackno:fledged lraific compestion, lie road construation is probituly ahead of the improved transit seryice, park-and-ride iuts, bikeways, and pedestrian psths. A far greater percentage of the diwelling units alang Poute 29 were constructed prior to enforcement of the APF ordinance. The resulting density of development, coupled with the commuter Irafic from Prince Georges and Howard Counties, caused increased traffic which has only been partiaily mitigated by normal and express transit service. Developer furding of park-and-ride lots, intersection improuements, and additional traffic lanes along Route 29. as well as some cornmuter jitneys, provide minimal but temporary rellef but for how long. A review of the land uses and transportation issues in the Plon is underway to explore downzoning because the proprosed alternative transportation mudes have been largely inefiective at getting commuters out of their cars.

## HOV DPTIOH

The HO\% option Delny considered as frart of this Route 29 Alternatives Location/Design Putlic Hearing is a concept that should the carefully analyzed ( ii such analysis is pussitle). Use oi the median for HOV may provide relief, but it is also possible that a better ilow of traficic would result from its use as reversithe lanes. We understand and agree with the desire to eliminate as many SOV's as passible, but we must recognize that as we build more and more employment centers in our county we have less and less of a traffic shed into washington. The dispersion of employment locations Into the County continues to deplete the numbers of corrmuters who can be served ty taking Metro into washington. Employee transit needs may no longer be as essily solved by north south transit routes. This increased dispersion of work places, coupled with fieaible working hours, aiso reduces the viability of sorne of the other Iransportatlon aiternatives iHe urge that, if HOV ait ematives are selected, they de construited in coni igurations which rould aiso funclion as reversible lanes. if a trial period determines that greater numbers ai people would be carried by their use as reversibie ianes. This flexibllily freciludes the further consideration of the $D$ Concept 2 Alternatives.

He wauld like to inank SHA for llieir cooperation. zitilinụness to meet and discuss lisues, and provsion ou needed materials and iniormation.

## PECOMMENDATIDHS

Uur recomniendatiuns are for a hybrid approach. In genersl, the Coalition iavors grade separation at several of the critical intersections olong foute 29 between Sligo Creek and the Howord County line. Full develupment of all intersections with grade separation is not warranted at this time. Ii, at a later date, the need for sdational grade separated intersections can be shown, and the cost justified, then the improvements should be made. Such changes will have minımum iuture impact on the neigliturs invelved if the neided right-of-way is acquired now. We betieve the intersections thst should be initially considered for grade separation are Four Corners, Randoiph Road, Briggs Chaney Road, and Route 198. The Hew Harnpshire Avenue interchange will have to be widened to carry three lanes of continuous traffic with a reversible or HOV lane in the mlddie. Brief comments concerning the details of our preferences on the proposed alternatives for each Intersection are as follows:

## SLIGO CREEK PARKWAY

After much thought about the long term goal of trying to get commuters out of their cars ond into transit, we have decided to support the 3-1-3 alternative. The rationale for this is the expected advantage of reducing the volume of cars by providing a dedicated lane for transit. Traffic signals should be used to reduce speed between the Beltway and Georgio Avenue. If the HOV concept folls to generote the volume of riders needed to continue the use of a dedicated lane, then the use of one or two reversible lanes should provide the needea capacity at the reduced speeds needed to maintain safety. Additional traiflc signals should be used to control speed south of Route 650. The needed jughandie turns should be used for local needs only. Measures must be taken to eliminate cut-through traffic through the nelghborhoods.

## FOUR CORNERS AREA

As mentioned previously we foyor a grade separated configuration. We request that SHA study a change to the proposed underposs configurstion.

The change consists of moving east and westhound Ihrough traficic on Route 193 to the wridened eastoound roadted, using undeyeloped land on the Kay trsct to the maximum eistent possible. This change would shorten the length of total underpass needed and would reduce the impact to the shopping area if the turning movements can be worked out. During construction of any alternathe aditiounal parking should be made ayalade un the west side by allowing angled parking on the wide section oi Sutherland Road between tid Poute 195 and Timberwoud Avenue.

If the $3-1-3$ Hov alternatue is selected It is criticat that the Crestmour community in the fiortheast four comers quadrant be protected from cut-through traitic teiore and during any construction at Four Cormers. Only aiter the congestion is retiened at four corners should there be an evaluation of the need for morning rush hour access to the local community using the profosed underpass at Crestmoor orive.

## LOCYOMOD DPIVE

Al the present time we would like SHA to consider having three lanes turn left onto Route 29 during the AM rush. This should reduce the green time needed for Lock:rood traffic. The right isne should be allowed to go stralght inta the Duallty inn/Manar care parking int. This would avoid the near stop, and attendant congestion, caused by cars turning into the very small radius driveway south of the Eunoca station ori Route 29.

If a grade separated alternative is deemed necessary, we fa;or Alternatlive C, Concept 3 as the best. Pedestrian access is not adequately addressed in the overpass description. Likewise no description is provided for meeting the needs of pedestrians from wheeler Drive now using a paved walkway along the north end of the parking tot north oi the Sunaco station. There is also concern for trafic from Hiliwood Drive which will de generated by the proposed high density development on the Andrus property. We suggest that right turns be allowed into and out of Hillwood Drive from Route 29, if and when a grade separated concept is deemed necessary. This would allow the interchange to de used as a jughandie for those needing to go south on Route 29 rather then going through the adjacent subdivision for ingress and egress to the Andrus development.

## PFELUDE DRIVE

The jughandle lane for left turns will meet the need for access when left turns cause unacceptable evening congestion or when direct left turns interfere with the operation of the HOV lane.

## NEW HATIPSHIRE AYENUE

It is unfortunate that the bridge was not widened during previous work, but that would probably have required work on the whole interchange.

## STE'HAPT LAAE

We see no need to develep a grade separated intersection at this time ond thus support alternative $D$ Concept I. Wie preier alternative $\mathrm{D}-3-3$ in the years ahead if more congestion makes a grade separated intersection necessary. However we think the access to millestone Drive should be relocoted closer to the overposs rather than in front of a residence.

## MDUSTRIAL PARK'WAY and TECH EGAD

We recommend that the ild Columbia Road bridge across Paint Branch be reopened to local auto traflic. This would allow local residents access to the industrial park during the AM rush without needing to add to the Roule 29 traffic volume. Another odvantage is that local traffic access could occess shoppling. In any case we realize that the cost of repairing the structure must also be weighed against the traflic reduction and safety golned

When a grade separated intersectlon becomes necessary we recommend Option D-3-2 since $1 t$ leaves Prosperity Drive open to trafflc from Randoiph Road. An exit ramp similar to that shown in Option I to old Columbia Road should be provided to reduce traflic at the Randolph Road/Old Columbia Road intersection. This also provides occess to the park-and-ride lot that will be located on the property of the world Headquarters for the General Conference of Seventh-Cay Adventlists.

## FAMIDOLPH PRAD, IHISGROYE PRAD, Ind FAIPLAMID PNAE:

The Rendolph Road intersection is already operating at unscceplable leveis of service during rush hours. We recommend that alternative $[\mathrm{n}-3-1$
a accepted on the basts of reduced land tikings thite prouiding the access needed. Reasonable green lime for through traific on Fardoloh Poan is e:nected from the traffic signals needed to allow turning moyernents.

The northbound ramp for Husgrove Road will need to be constructed to provide the jughiandie function for northbound traflic 10 the CZ.P building on the :rest side of Route 29 . This assumes the anoption of the Hoy lane concept, in this case Concept 1 , as descrited earlier At a later time this ramp would provide aceess to the Husgrowe Road cyerpass bridge.

Additional alternatizes for Fairland Road should be sought before widening old Columbla Foan to provide access to Route 29 via the husgrove Road interchange. A large park-and-ride lot is proposed on the farmland adjacent to Fairland Road, a prime Iocation next to the ICC. Access to the park-and-ride lot must be molntained even when overposses becone necessary at Fairland and Musgrove Roads. Alternatives with this access can be worked out which will still be compatible with the ICC interchange.

## INTERCOUNTY CONNECTOR and BRIGGS CHANE' POAD

Alter review of the varlous complex options for the ICC a modifled Alternatlive D Concept 30 plion 6 was selected. This Optlon was selected over Opllon 4 because It does somewhat less damage to wellands and requires one less bridge. On the other hand more land is required adjacent to the Tanglewood subdivision. A minor addition between the ramps in the northeost quadrant of the interchange will provide northbound access to Route 29 directly from Foirland Road. Southbound access to Route 29 is provided by joining the two lanes crossing over Route 29 on the northern most of the three bridges. These changes will provide direct access from the large proposed park-and-ride lot located adjacent to the present farm on Fairland Road. Access to the park-and-ride lot from the north may require an additional bridge over the three lane ramp.

The some option is recommended for Briggs Chaney Rosd. Access to the westbound ICC from Briggs Cheney pood could also be proiided from the southoound ramp to Poute 29. A comnection to the westbound ramp from Route 29 could be made arter coming down oif the bridge over that sanie ramp. This change would reduce ICC access lraific on Old Columbia Road.

## GREEPIEASTLE ROAD

Initially we recommend alternative $D-1-1$ but with the jughande ramps in the southwest quadrant so the two houses are not token. This also Illours for the orderily expansion to the grade separsted option at a future lirie if deemed necessory

## BLACKBURN ROAD

again we recommend the $0-1-1$ alternative but with the ramps firim alternstive $0-3-1$. Future conversion to the grade separated alternolive call be done at less cost. Addltional allernatives should be corisidered :rhich provide better sccess to the proposed park-and-ride lot on the Eurn Brae property.

## Route 195

We recornmend the early constructlon of alternative $0-3-3$, tut agaln with changes. We suggest that the southtound merge lane, south if Route 198, te kept on the west side of the existing roadbed to allow the maximum use of the old roadbed in that area us a park-and-ride lot. This area provldes a nearly ideal location with bus access through the area from the present Burtonsville lot near the Giant Food Store. Modificstion to the northbound ramp at that same location could provide evening return access with continuation on to the present Burtonsville lot.

## OUSTIN POAD

Although not considered initially, careful thought now leads us to recirimmend a grade separaica intersection because of safety considerations Dustin Road is at the top of a long grade roming out of the river valley. All of Howard County's Intersections will be grade zeoorsted. Dust in Road should not be the first at grode intersection. The incredso In safety between building an intersection at grade in the new alignment sid a grade separated one is worth the incremental cost difference. We recommend a 270 degree loop in the southeast quadrant to go north on Route 29. This allows use of existing right of way with minimum disturbance of the flat land at the top of the hill instead of destruction of a sleep wooded slope that drains directly into the reservoir.

Thank you for reading this far. If you have questions on ary of the above we would be happy to discuss them. This concludes our review and recummendations on the Route 29 Alternatives.


William Tate
President, White Oak Area Civic Coalition

## Richard H. Trainor

## Maryland Department of Transportation <br> State Highway Administration

## Hilliam E. Tate <br> ge Two

down side of this change is the displacements encountered on the west side of US 29 in providing additional ravel lanes He feel these displacements, which on travel lanes. We thought would be the post office, Roy Rogers erst chought would sheril the intent of the current sector plan. Such a change the intent of the current sector plan. Such a change displaces community facilities

- At Lockwood Drive, our District No. 3 office is studying At Lockwood Drive, an interitt this proposal was presented as a riple left rurn. This proposal was presencem the development of the Andrus property. If a grade separalevep could be more effectively designed consistent with your recommendations. The Hillwood Drive access issue was brought to our attention by the affected community association. He will be modifying the plans to provide right-in, right-out access to northbound US 29 for all of the grade separation alternatives.

At prelude Drive, a traffic signal will be functioning by the end of March. If a jug-handle turn lane is uitimately selected as part of Alternative $D$. this signal will enhance its operation. Also, Montgomery County has earmarked funds in their current appropriations process to construct a sidewalk along the wes side of US 29 between Prelude Drive and Burnt Mills Avenue.

At New Hampshire Avenue, the widening of the bridge to provide six rravel lanes through the interchange along US 29. is a crucial element of our initiatives for us 29. Currently, this widening is programmed to begin construction at the same time as the Four Corners gr separation; by the end of igg. iocation, they may be mor deficiencies do exist at this location, they may be more clearly identified early next year when the for of this sixth lanes
interchange.

At stewart lane, we have identified a more near-term need for a grade separation. A relatively short service need for a be associated with the changes needed to provide left turn movements with an at-grade yoV lane Hithout an HOV lane, the complex of at-grade incersec tions will be able to accommodate near-term traffic

Four corners, reconfiguration of the proposed. As you eparation has its advantages and diffic to the existing int out relocating all MD 19y er of the underpass chound roadway shortens the and urilizes portions of

333-1139
rencypewriter for impaired Hearing of Speech

ncreases along US 29. If a grade separation is
increases along US 29. Lf a grade separathe proximity of ramp movements to homes along Milestone Drive.

- At Industrial Parkway and Tech Road, we see a near-term need for a grade separation. At-grade intersections will not be able to accommodate traffic volumes being attracted to and from the neighboring industrial park The exact orientation of ramps in both of the grade separation proposals is not final. particularly those between southbound US 29 and Old Columbia Road. They traverse an area of the General Conference site iden fied for a park and ride lot. One of the proposals purposely has only an on-ramp so that we could assess the effects of diverting this traffic to Randolph road. He are more concerned with ensuring the integrity the lot park and ride lot and have been able to reorent the and retain only one ramp. We have idencified the onramp as an absolutely needed movement.

As you point out. local circulation patterns would be enhanced by opening up old Columbia Pike across Paint Branch. It was not addressed in this study due to the prevous turaiately is developed with such a proposal. Since this moriculy in dealing an issue for Montgomery County to hande, parts reopening to their uith local transit access, we are deferri further study.

- At Randolph. Musgrove and Fairland Roads, there is an immediate need for a grade separation, particularly at Randolph Road. Relief would be provided for the large volumes of cross-county traffic on Randolph road, well as for US 29 . Although the grade sements impact proposals with convenct accommodate traffic movements as less land, they do not accommodate Ultimately, we feel efficiently as the other proposaliate proposal will be the selection of the more appropriate related
tion.
- At the Intercounty Connector and ariggs Chaney Road. their are mafor attributes associated with the last grade separation proposal. Due to the proximity of Fairland Road to the interchange at the Intercounty Connector, we have purposely avoided proving any ramp between US 29 and Fairland Road. Although it associated clearly labeled, the ramps to Fairland Roaveling between with hlternative D-3-6, are for he HOV lane on US 29. the inter's yould access the center lane on US 29 via These ho from the Fairland Road grade separation. Once the ramp from the Fairitional Fairland Road ramps to test again, we adequacy of the local road network.

Mr. William E. Tate
Page Four

Access between the Intercounty Connector and the Briggs (han further Chaney Road area posed a real dilema. Range proposals we complicate the already intensive to provide these movements at considered it was locations where the columbia Road and Briggs Chaney Road to the network. Both Old Columbia Road and $\begin{aligned} & \text { east. provided this access opportunity. }\end{aligned}$

- At Greencastle Road and Blackburn Lane, we agree that there are probably more desirable locations for jugchere are probably more turn lanes associated with Alternative D-1. If hande turn lanes associacetely selected, we will coorient them to other. less damaging locations.
- At MD 198, your comment about reserving space between the southward ramps to US 29 for a park and ride lot is good one. We will investigate shifting the on-ramp long the west side of our current right-of-way so that space is available for this lot.

At Dustin Road, we agree that if the master plan alignment is ultimately selected, it would be prudent to provide a grade separation. On the other hand, if we retain the current alignment and do not ademain at access control issue, this location could remain at grade. Mitigating impacts to the neighboring water by reorienting the northbound ramp to US 29 to the look southeast

Again, thank you for your continuing interest in the refinement of the study alternati provide further assistance.
very truly yours.
Louis H. Ege, Jr
Deputy Director

By:


Project Manager
LHE/RCA/in
Cc: Mr. Neil J Pedersen
Mr. Michael Snyder

February 5, 1989

Maryland Department of Transportation
Srate Highway Administration
Srate Highway Admint Division
P.O. Box 717

Paltimore, MD 21203
Re: Contract No. N425-101-370
U. S. Route 29

Sis. Route 29 Creek to Patuxent River
Silgo
PDMS No. 152019
Dear Project Planners:
e apprectate the opportunity to comment during the process to plan and deeide the acrion to be taken to improve U. S. Route 29 in the eastern area cide Montgomery County. Tha Tamarack Triangle Civic Association has requested fhat the feeling of the Association be communicated to you by the undersigned.
The TTCA represents approximately 800 detached individual homes in the area bound on the north by Fairland Road, on the south by Randolph Road and on the east by the Paint Branch Creek. Anything that happens or fails to hap pen on Randolph or Fairland Roads, U. S. Route 29 and New hampshire from Four Corners to Burtonsville affects our residents. If the Beltway is tied up anywhere from U. S. Route 1 to River Road, it affects our residene. we are distressed that the County and State highway
cipated and with the testimony of Mr, William Tate, President of tha White Oak Civic Coalition on January 25 , 1989 in which he stated:

We urge that if HOV alternatives are selectad, they be constr onfigurations which could also function as reversibla lanes.

Our recommendations are for a hybrid approach.....grada separation at everal of the critical intersections along 29 between Sligo Creek and the Howard County line. Full development of all intersections with rade separations is not warranted at this time. If, at a later date the need for additional grade separated intersections can be shown, and the cost justified, then the improvements should be made. Such changes will have minimum future impact on neighbors incions that should right of way is acquired now. We believe the intergectionsers, Randolph Road, Briggs Chaney Road and Route 198

Page 2
February 5, 1989
U. S. Route 29

The New Hampshire Avenue intersection will have to be widened to carry three lanes of continuous middle.
The eaphesis given to the FOUR CORNERS intersection is the writers'. We believe that any improvements in traffic on U. S. 29 now or in the future wil ultimately be successful or fall depending on the action taken at Four ultimarely The TTCA recommends that the plan to grad
Corners. Torners be implemented as quickly as possible.
We believe that appropriate action to alleviate and mitigate the problems therent in appropriate action co taken. This should include economic inherent in such construction should

The TTCA is not unmindful that this decision is hard and far reaching as The TTCA is not unmindful that this It is also true that the hard decision would be a decision to do nothing. postponed to a future date else events and rraffic furcher overwhelm us.

Thank you for your consideration.


Robert P. Mann
TTCA representative
Route 29 advisor
cc: Senator Kasemeyer Delegate Chasnof Neil J. Pedersen Montgomery County Executive Montgonery County Council Robert S. McGarry

## Mayland Department of Transportation

Richard H. Trainor Socratary
Hal Kassoft
Administranor

## March 10. 1989

Re: Contract No. M 425-101-370 US 29, Sligo Creek to the Patuxent River PDMS No. 152019
Mr. Robert P. Mann
Representative
Tamarack Triangle Civic Association, Inc.
P.O. Box 4294
Silver Spring, Maryland 20904

Silver Spring, Maryland 20904
Dear Mr. Mann:
This letter is in response to your recent correspondence regarding our project planning study on US 29 in Montgomery county. We appreciate the comments you have provided on the consideration in our development of will be given thorough

Regarding your specific recommendations, r would like to offer the following considerations:

- We agree that with the relative poor patronage of mass transit in this corridor today, designing an hov facility that could be easily converted into a reversible peak hour lane is prudent. North of MD 650 , where the HOV roadway would be used by all types of vehicles, conversion to general use lanes would be rather simple. South of MD 650, where the lane would be reserved for express buses and possibly vanpools, such a change would meet with community resistance. Communities in chis area are concerned about losing the existing median.
o We think your list of intersections requiring eventual grade separations is incomplete. Traffic projections used in this study and supplemental traffic analysis completed on Alternatives $\lambda$ and $B$, show the intersections of stewart Lane and Industrial Boulevard/Tech Road wil experience undesirable traffic congestion. This is due to increases in traffic along US 29 as well as from curther development within the West Farm area.
- Near-term widening of US 29 through the New Hampshire venue interchange will be needed. This may become more eadily apparent later this year when the fifth and sixth lanes north of this interchange are completed along US 29.

My ielephone number is (301) 333-1139

[^3]```
Mr: Robert P. Mann
Page Two
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I want to thank your association for your interest in the highway development process as it relates to this study. please contact us again if we can provide further assistance.

Very truly yours.
Louis H. Ege, Jr
Deputy Director
Project Development Division


Project Manager

LHE/RCA/ih
cc: Mr. Michael Snyder Mr. Neil J. Pedersen

Project
STATE HIGHWAY ADMINISTRATION DEYELOPYE: QUESTIONS ANDIOR COMMENTS

CONTRACT NO. m 425-101-370
us route 29
sligo creek to the patuxent river
POMS NO. 152019
Display Review
Public Hearing
November 30, I988
January 25, 1988
name DAVID LEWIS, date FEBRUARY $8 T H 1989$.
PLEASE ADDRESS 13715 , OD) COLUMBIA PIKE,
PRINT
city/town SILVER SP\&NG, state MI). $\qquad$ $21 P$ CODE 20904
lITe wien to comment or Inquire about the following aspect of this protect:

1) I could lite to thank evegne inondredat the SHA. for the through : detached manner in which the b study of this prgiect, including the presentation on 1-25-89, woos conducted.
2) Incept the read te upgrade han $29 t_{0}$ allow for the expected increase in
$\left.\begin{array}{c}\text { (Rev. } 12 / 18 / 85 \text { ) }\end{array}\right)$
$($ CONIINE) R OOH REVERSE)
Q) Of the various options suggested for the area near where 9 live 9 Laver Alterative C. Concept 3 (kate 20 in you green coverem.
alternatives Display, Review Roution/Deajin / lis blearing'book),
bycanae again, think this would allow an adequate.
 remove list andor for offering written comments. To do so, remove form, fold, and close by stapling or taping before mailing. All postage will be paid by the State Highway Administration
theefocto on the existing lendsege and people. O ala. favor this option bechance it would not entail the a cuing of any existing residence or business.

Honk you tor this opportunity to comment. 9 would be grateful if you mill take the abovinto consideration when evaluating this project Ow the. folic wham ave II K next 20 year

 Mr operation of as mush of the existing landsergeias possible to ported Pres creation bean the of the lands soretain as many of the natural attraction which first louppt people tic this ace. The interests of th i people effected by the norlectare int
4) Actor fincel decision are me d, 9 think the effect oof each of the
 in the cental Wiener Goring area.
5) 9 am general, in farourct Allen vet Five $C$. I think this would paint an adequate flat of traffic for the foresee bl quite with $n$ t the


[] ploese id my/ bor names) to the Milling (isl.*
L_ prese delate my/our nemetel from the Melting Leet.
*Persons who never racalvad e copy of the brochure through the moll are eireedy on the prolgct Melting List.
would overall be detrimental to the quality of life in the area because wold overall be detrimentalto the que tend te separate reaceato ot e math life noreimpersom
They would tend
OVER SASE

From. $\qquad$
$\qquad$
$\qquad$

BUSINESS REPLY MAIL
No Postage Stamp Necessary if mailed in the United States. Pastoge will be paid by:

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION OFFICE OF PLANNING AND PRELIMINARY ENGINEERING E OX 717
BALTIMORE MO. 21203

Mardand Department of Transportation
Richard H. Traino
secrotary
Hal Kassoff
Admunistratio

Merch 13. 1989
RE: Contrect No. M 425-101-370
US 29; Sligo Creek Perkwey o the petuxent River et the Howard County Line
PDMS No. 152019

Mr. Devid Lewis
13715 Old Columble Pike
Silver Spring, Meryland
20904

Dear Mr. Lewis:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comments are appreciated and will be givetive.
consideretion in the celection or combined locetion
Your aupport of Alternative $\mathrm{C}-3$ et che cont connector, es Brigge Chaney Road end the propoeed Inter the remeinder of the well es your suppor corridor, is noted

The environmentel end socio-economic effecte of each etudy elternativee is contained in the Dreft Environmentel Document, which you will find on deenly eware of the unique libreries. The proch of the neighborhoods. es well es the cherecteriscics of end have mede every ectempt to neturel landscepe of the erea,

Hould like to thenk you for your interest in the highwey development process as it reletee to the US 29 plenning plesse cont
ssistance
Very truly yours.
Louie H. Ege, Jr.
Deputy Director
roject Development Divieion

LHE/AHS/in
333-1139

## International Fabricare Institute 'ju

12251 TECH RDAD • SILVER SPRING. MD 20904 • (301) 622-1900

February 9, 1989

Mr. Randy Aldrich
Project Manager
Project Development olvision
State Highway Administration
707 North Calvert Street
Baltimore. MO 21202
RE: Comments on the Proposed Reconstruction of
Oear Mr. Aldrich:
The following comments on the proposed construction of the U.S. Route 29 corrldor are submitted by the International Fabricare Institute on behalf of ourselves and on behalf of Mr. George $H$ Beuchert, 111 of the Tech Center 29 Ilmited partnership.
We are submitting these comments to specifically address the signlflcant negative impact on the institute's International headquarters and the Tech Center $2 g$ office builiding of those proposed options which incorporate a Tech Road ramp and overpassa However, several proposed options or modifications thereor be acceptable as described in the body of our comments below.

## A. OPTIONS SPECIFICALLY RECOMMEMDED AGAIMST

The Institute Headquarters and the Tech Center 29 office The ins adresses of 12251 and 12200 Tech bullding, Hith respection Montgomery Industrial Park and are the Road, are located from U.S. Route 29.

Page 2
State HIghway Administration
Baltimore, MO
Proposed options such as (but not necessarliy limited to) C1, C2, D3-1, and 02-2 involve ramoing of Tech Road with a bridge over Route 29. He are strongly opposed to these optlons and to any other option which may be considered that would invoive the ramping of
properties.
According to the elevations provided by your office of the ramplng necessary for a Tech Road brldge, all access to Tech Road ramplng necessary fromeach of our propertles. Moreover, each wroperty would find that its frontage was now fronting an property whone wall. As a result of thls change, each property would face significant disruption of buslness as almost certaln loss of property value.
Additionally, traffic flow patterns would be significantiy diter our propertles and for others withln the Montgonery is iustrial Park, inciuding for travel within the Park itself.
or these reason, we oppose and strongly recommend agalnst conslderation of any and all options Involving a Tech Road bridge and associated rampling.

## B. SUPPORTEO OPTIONS ANO/OR MOOIFICATIONS THEREOF

 Of the proposed Alternatives Involving improvements to (l) Route In our evaluation of these options which do not incorporate a Tech Road bridge, our primary emphasis was on those alternatives tech Road bridge, our primary emphas access to northbound and which continue to permit reasonable Hill/Randolph Roads. southbound U.Sthe following options and/or modifications of He reco
options:

- Option B1: Acceptable
- Option B2: Acceptable

Acceptable, with a recommendation for Angresslagress between Tech Road and Ingress/egress
northbound Route 29.

- Option 02-1: Acceptable, with recommendation for ingress/egress betw

Page ${ }^{3}$
tate Highway Administration
Baltimore, Mo
Additonaliy, we recommend that during the State Highway Administration's final evaluation of optlons strong Administrations ing be glven to reasonable access from the consideration must be glven to riph Road/Cherry Hill Roads and Montgomery industrial outhbound U.S. Route 29. Optlon C4 as ease of access to southbound ach acceptable configuration.
on plate
He wh to thank you for the opportunlty to submit these We wlsh to thank you for the onal informatlon which would be comments. If there is any addition to provide, we would be happy useful and
to do so.

Sincerely,


Wllliam E. Flsher Manager/ Assistant Gener

HEF:Crm
copy to: Mr. George, Beuchert, 111, Jon Meljer, Charles Riggott

Mardand Department of Tansportation
State Highway Administration

## March 16, 1989

Re: Contract No. M 425-101-370
US 29, Sligo Creek
the Patuxent 15

Mr. William E. Fisher
Assistant General Manager/
Vice President
International Fabricare Institute
12251 Tech Road
silver Spring, Maryland 20904
Dear Mr. Fisher:
This letter is in response to your recent correspondence regarding our project planning study on the us 29 corridor in regarding Montgomery County. I appreciate the comments you have submitted on behalf of your organization and Mr. George H. Beuchert, ill about the study alternatives aftects on Tech Road and your buildings that are located at this intersection. This intorme of will be given a thorough consideration in our development of a preferred alternative.

Regarding your specific comments and your recommendation of nly alternatives $B-1, B-2, D-1-1$ and $D-2-1$, I want to provide the tollowing consideration. First, due to increasing traficinuvolumes along US 29, alot of which is being generatedraffic operaing development of West Farm, we foresee near-term traftic oper tions at the rech Road intersection, as at-grade Boulevard intersection. reaching undesirn intersections have prescribed capacity thresholds specified traffic volumes can be efficiently exceeded, even with these intersections, this threshold will be exceeded, even with intersecthe additional fitth and sixth lane along US 29 and with tion improvements proposed in Alternarives bearation. Due to recourse is to ultimately priderial Boulevard intersection, we physical constrains have proposed locating the grade separation at rech Road.

My telephone number is (301)_33-1139__
Teletypewriter for Impalred Heering of Speoch


```
Mr. William E. Eisher
Page Two
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Second, even though the existing elevation of Tech Road would be raised in the vicinity of your buildings, we have not proposed denying your access from Tech Road. Accordingly, if your current access has an inappropriate grade change, we will relocate it to a point along tha approach grade to the br over US 29 where it is achiavable. Also, your access to Prosparity Driva will ba ratained. we will make every eicor through the usage of sophist existing parking areas and at tha avoid displacing any of your axistis patically pleasing. sama time provide a design that is asthetically pleasing.

Third, with tha next publication of any altarnative mapping, most likely in the final anvironmental document; we will show the oriantacion of Broadbirch Driva and its connection to Cherry Hill is an important roadway providing access and local circulation within the West Farm development.

I want to thank you for your interest in the highway davalment process as it relates to this project. Please contact us opain if ue can prouide further assistance.

Very truly yours,
Louis H. Ege, Jr.
Deputy Director
Project Davalopment Division


## LHE/RCA/ih

cc: Mr Michael Snyder
Mr. Neil J. Pedersen
Mr. George H. Beuchert, III

## STATE HIGHWAY ADMINISTRATION QUESTIONS ANDIOR COMMENTS

CONTRACT NO. M 425-101-370 US ROUTE 29
sligo creek to the patuxent river
PDMS No. 152019

Display Review
November 30, I988

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\begin{array}{lr}
\text { Review } \\
\text { 30. I988 } & \\
\text { NAME Public Hearing } \\
\text { January } 25.1988
\end{array}
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$\qquad$

PLEASE
PRINT

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& \text { ADDRESS } 9318 \text { Ocala Streed } \\
& \text { CITVITOWN SilverSpring }
\end{aligned}
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CITVITOWN Siliee Cpring state Mad $\qquad$ 21P CODE 20901 $\qquad$
$\qquad$
DWe wiah to comment or Inquire about the following aspeota of this prolect:



 if 1, the $4-1-2$ concept recms reavan-le sarth of $I-495$, enn thend the nethon madd be remoed. $\qquad$


 and hrigs Ohang/ICDC der ta havy congertion eqsited.
In gexeral D-3 allomatues mould be insporappicte, ar they nouf be incompatible nath the chareder of the Rocte 29 corider. Thor would result in increaved cangentime eath or MD 650, ad mout libely course a
 elements of an egreabledarign.


March 17, 1989
RE: Contract No. M 425-101-370 US 29; Sligo Creek Parkwsy to the Patuxent River at the Howard county Line PDMS No. 152019

Mr. Stuart C. Moore
9318 Ocala Street
Silver Spring. Maryland 20901
Dear Mr. Moore:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery county. Your comments will be given thorough considerstion in the selection of recommended alternative.

We certsinly appreciate your support of the 4-1-2 lane contiguration south of I-495. Realizing the negative impact to the surrounding communities, the 3-1-3 lane configuration is no longer preferred. Therefore, it Alternative of the Beltway. 1-2 contiguration will be the median. pedestrian overpasses at Along with the removal ot the and oak Leaf Drive are proposed to Granville Drive, $\begin{aligned} & \text { ensure pedestrian safety. }\end{aligned}$

Your support of Alternative C-2 at Four Corners, D-3-1 at Your support of and Briggs Chaney/ICC as well as D-2-1 for the Industrial Parkway and Briggs nated.

I would like to thank you for your interest in the highwsy
elopment process as it relates to the US 29 planning study. development please contact us sgain very truly yours.

Louis H. Ege, Jr.
Deputy Director
Project Development Division
by:


LHE/AHS/ih
cc: Mr. Michael Snyder

$$
\begin{aligned}
& \text { My telephone number is } 13011 \text { 333-1139______ } \\
& \text { Tolalypewriter for impelred Hearing or Spaech } \\
& \text { Toldypowiter for Impolred toarng of Spect stmowide toll Free }
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STATE HIGHWAY ADMINISTRATION QUESTIONS ANDIOR COMMENTS

CONTRACT NO. M 425-101-370 US ROUTE 29
Sligo creek to the patuxent river
PDMS No. 152019
isplay Review
ovember 30, 1988
NAMEET. Bananas
DATE 3/6/09
lease PINT

ADDRESS 14229 Ballinges Ter

NW wish to comment of inquire about the following aspects of thiaprofect:
For he Locations Born Neath Ans South of MD 650, we Feat That Atesnative $A$ - $N_{0}$ Bull $D$ is TAte only way To Apples $W_{\text {h ar }}$
Stoncd Be A Problem Soveo By otter Means.
Specifically, The Extine Amounts of Money That wick $3 \varepsilon$
MAsted Tuenwg THe RTE 29 CORRIDOR into An UGLY mass of
S SCRETE ANP STEEL Wound BE BETTE S SPENT ON MORE BuSES

- Mass Tatusportation So As To mare These Systems A Viave
ceenative To peasouac Tepusportation Convenience. Seconacy, we sNot UNPESITAND How ir is So Difficult To SyNCHRONize
IRAFFIC LIGHTS AONG RTE 29, Partinlatacy fo 4 Conchs. Fimacir
we FEEL THAT Influentite PEoPLe of formal Country Aec
Pushing For These "improvements" Since They Do Not like in e our
Contr Ane woe Nor Bane Tire Consequences of Increases
Congestion That win inevorpacy foceom.
One Need ency look $T_{0}$ Nathern ViRginia To see That hov
lanes And Increased Capmaty Ace only Tenroatary measures That Are Oucriv
Duceunelmed $B_{1}$ Deyecopment. Ne- York Cir's Long Island Expressway is
Another Example. The Root of The Tropic Ppoacem is The Incarbisce Tace

Prana add my/our nama (s) lo the mailing List.
ADDress Thess Problem!
$\square$ Plagae dalai my/our nama(a) from the Mailing Lat.
*Parsons who navar racalvad a copy of tile brochure through the mall ara already on the project Mailing List.

Maryland Department of Transportation State Highway Administration

Richard H. Trainer Secretary

March 28. 1989

RE: Contract No. M 425-101-370 US 29; Sligo Creek Parkway to the Patuxent River at the Howard County Line
PDMS No. 152019

Mr. E. Domains
14229 Salinger Terrace
Burtonsville, Maryland 20866
Dear Mr. Domains:
This letter is in response to your recent correspondence pertaining to the project planning study of US 29 in Montgomery County. Your comments are appreciated and will be given thorough consideration in the selection of a recommended alternative.

Your opinion of optimizing transit usage on US 29 is shared by both the State Highway Administration and Montgomery County. The key to the success of any transit system, whether it be express buses or other high occupancy vehicles, is to achieve a significant travel time savings advantage over other vehicles. Providing unimpeded flow for these vehicles in exclusive lanes is an essential component in attracting commuters into the transit system. This is proposed in Alternative D. Simply adding more vehicles into the general use lanes would not produce a pivotal time savings to attract the ridership necessary for a successful transit system.

The traffic signals south of MD 650 will remain in operation in all improvement scenarios for US 29. Montgomery County is currently investigating a computer system which gould link the signals into a central computer in Rockville. The revisions to the timing should facilitate more efficient operations on Colesville Road. Due to the ?urge volumes of trafitc along University Boulevard, there will be some undesirable degree of congestion at an at-grade intersection at Four Corners.

My telephone number is (301)_ 333-1139
Toletypariter for Impetrad Hearing or Speech
383-7555 Baltimore Metro - 5es5-045t D.C. Metro -t-800-402-5082 Statewide Tall Free 707 Not in Calvert St.. Baltimore. Meryland 21203-0717

Tha majority of traffic on this portion of US 29 is generatad within eastern Montgomary County. This is also the case with the corecasted increasas in traffic. Tha State Highway Administration is committed to rerouting motorists from Howard and other adjacent counties to Interstate 95 . Evidence of this commitment is the improvement of MD 175 and MD 32 and future improvements to MD 216 and MD 100.

I would like to thank you for your intarest in the highway davelopment process as it relates to the us 29 planning study. As request hs requested your nama hes bin if we can provide any furthar assistance.

Vary truly yours,
Louis H. Ege, Jr.
Projact Development Division
by:


LHE/AHS/in
ce: Mr. Michaal Snydar

| GFSREALTY. INC. | PROJECT DEVELDP:P: i C.: |  |  |
| :---: | :---: | :---: | :---: |
|  |  | 8200 ill'99 | DEPT 671 BOX 1804. WASHMNGTON, D.C. 2001 (301) $341-8440$ |
| STEPMENL OSEROFF NCE MESTOENT |  |  |  |
| March 7, 1989 |  |  |  |
| Mr. Mell Pederson |  |  |  |
| 01rector ${ }^{\text {State }}$ Highway Administration |  |  |  |
|  |  |  |  |
| office of Planning and Preliminary Engineering |  |  |  |
|  |  |  |  |
| Post office sox 717 |  |  |  |
|  |  | Re: Proposed | Route 29 Improvements |

## Dear Mr. Pederson:

I represent the Burtonsville Shopping Center. This Shopping Center is located on the northeast corner of the intersection of Route 29 and Route 198. This etter will summarize a meeting I had two weeks ago with Randy Aldrich concerning the proposedupronts Highay Aininistration is currently favoring y favoring I emphasized to Mr. Aldrich that any decision the State Highway Administration
makes concerning improvements to this intersection must be carefully evaluated makes concerning improvements to this in the ine the impact on the existing businesses in Burtonsvilie. it :o detemine the impact on the existing businesses in Burtonsvilie. It ccess will be severely limited. Access relates to the following factors:

- Retall Customer Traffic Access

0 Retail Customer Traffic Access
0 Visual Access to the Facility

- Commuter Traffic Access (The center is being used as a regional transportation hub.)

This Center was designed to be a community center, not a regional center. access to the Center must be convenient for the local residents or the economic viability of the center will be compromised. The Burtonsvilie Crossing Center is a $\$ 12,000,000$ asset.

[^4]Mr Mell Pederson
son intration State Highway
Page Two
f I can provide you with any additional information relative to the proposed design of this intersection. please let me know. I will remain in contact ath Mr. Aldrich in order to keep current with this project. Please thank Mr Aldrich for meeting with me and ay Associate.

$$
\begin{aligned}
& \text { sincerely. } \\
& \text { stephen. Oiereff/Ruse } \\
& \text { stephen L. oseroff }
\end{aligned}
$$

## SLO:dwa

cc: Peter Melmed, GfS Realty, Inc.
Randy Aldrich, State Highway Administration

## tEST IMONY

GFS REALTY.INC.

STEPTENL OSEROFF
vice bat siocnt
February 8, 1989

Mr. Reil Pederson
State Highway Administration
Olrector
Office of Planning and Preliainary Engineering
707 Horth Calvert Street
Roon 400
21203-0117

## IIA FEDERAL EXPRESS

Re: Proposed Route 29 improvements
ear Mr. Pederson:
testified at the Route 29 Public Hearing held on January 25, 1989. 1 would testified at the attach written testimony entered into the Public Hearing record.

SLO:dwa

Attachment (as stated)


DEPT 671 BOX 1804. WASHINGTON, O.C 20013 (301) 341.8440

My name is Steve Oseroff and 1 represent the Burtonsville Crossing Shopping Center, which is located in the northeast quadrant of the intersection of Route 29 and Route 198. Burtonsville has become a major commercial center as the approved and adopted master plan envisioned it would become. The master plan emphasizes the importance of establishing Burtonsville as a viable commercial center. One of the criteria that ensures the viablify of a commercial center is that of its convenience to the residents of the area. The concept plans presented by SHA do not focus on the proposed road improvements ' impact on the functioning of Burtonsville as a commercial center. Specifically, the concept does not adequately address access to the existing businesses in the burtonsvilie area. State Roads must sit down wit us to understand how our project functions. Fallure to exam the loss of design at this time could have drastic effects and result in the loss of a viable project in the future.
The 1982 master plan states that major elements of the land use concept for Burtonsuille are:

- to provide for a self-contained "village center" in the northeast quadrant of the Route 29-Route 19 in intersection
o to locate a fringe parking lot at the north end of the "village center".
These two physical improvements are already in place at the gurtonsville Crossing Shoping center. I do not belleve that the State Highway Adminis these facilities in the conceptual plans which have been presented to the public certainly a goal of any road system must be to service facilities pubic. Certa exist and the master plan deems necessary.
understand that the future predictions for the number of trips along the Route 29 corridor mandate increasing the capacity of this corridor. However Roue increase in trips can either be handled by construction of additional the transit, or by a combination of both methods. The 1982 master plan lists the following methods to increase the capacity of the existing roads.
o locate fringe (commuter) parking lots where auto occupants can form carpools or transfer to busses
- operate express bus service linking these fringe parking lots with silver Spring and Glenmont Metro stations
- operate express bus service on Route 29.

The Park Ride Lot located behind the Burtonsville Crossing Shopping Center is providing all of these benefits. Building bus ridership is a
ime-consumning and expensive task. Commuters demand convenient quality service to induce then to leave their cars for mass transit. Therefore careful consideration and planning must be given to the the the intersection improvements was not been done

The current concept plans offer one idea (Md 198 Alternative 8 , Concept 1 ) which maintains an at grade intersection which could be acceptabie to us. This concept needs to be modified to permit a right turn in and out at the intersection of Route 29 and National Drive. This is north of the 199/29 intersection and on the east side of Route 29. The balance of the ideas for modifying Route 29 are of such a magnitude that it dehumanizes the facilities surrounding the intersection. Therefore, it loses the intent of the 1982 master plan which created the current facilities.

In addition, Alternative 0 , Concept 1 and 2 . Option 1 and Alternative 0 . Concept 2, Option 2 would be acceptable.

Currently, there are nine alternatives being proposed for the intersection None of these alternatives have been evaluated to detemine how they will effect the operation of 8urtonsvilie as a compercial center and as a transit hub. Therefore, 1 recommend that additional work sessions be scheduled with the adjoining property owners and MCDDT representatives in order to address the above issues. Until this type of study is conducted, any analysis of the proposed improvenents is impossible

We look forward to working with the State

Mandand Department of Tansportation
State Highway Administration

Mr. Stephen L. Oserofe
Vice President
GPS Realty, linc.
Departaent 671
80x 1 B04
Wasingeton, D.C. 20013
Dear Mr. Oseroff:
This letter 18 in response to your recent correspondence egaralng our project oonnty. ternarives, erfects to the continued operation of your shopping
 laricn, indicated when you wet earlier thls year, thls input alil witernative.

At tnis time, we do not have a preference. analyais and efinewent of the alternatives is underway to determine if $1 t$ ould be desirable to retain tne existing alisnment of US 29 nrough Burtonsvilie or to wore ciosely adnere to the sastern Montgomery County Master Plan, which envisions a bypasisilgntiy east of the existing alignwent. If the existing alignment is retalned. we anticipate alternatives $\mathbf{C - 5}$ or $\mathrm{D}-3-5$, including tinor changes to them, are logical choices. if the master pian alignment is judged preferadie, we thinx alternatives c-3 or D-3-3, also inciuding minor chanses, are logical cnolces. The "Viliage center" intentions of the Master pian wust be weigned in our considerations. As you point out, receacion of the existag allgnment and the placement of an incerchange adjacent to or gurtonsville crossing center nas consequences on tne scope of chis Dian. Other considerations. sucn as costs, eavironmencar consequences, and the winimization of right-of way digplacemes ust also be considered. A risid sciedie to to assess all of the information avaliable to render a decil We do anticipate having a preference indicated alaricn to chart nowever. Piea our progress.

Very truly yours.

## niil $f$ Pedenew

ell J. Pedersen, Directo ffice of Planalig and preilainary Engineering

## NJP/In

Mr. Loula H. Ege, Ji
$\qquad$




Law offices
Linowes and Blocher
tenth floor p.o box 0720

Silver Sprino. Maryland 20907
(301) 500.0580
مracomen 15011 Aes.

Waiters direct oial numeer

January 25, 1989

## Mr. Randy Aldrich

By Hand
State Highway Administration
707 North Calvert Street
Baitimore, MD 21202
Ms. Elieen Rappaport
Hontgomery County Department of Transportation
01 Montoe Streer
Rockvilie, MD 20850
Re: Proposed Improvements to Route 29 and Potential Impact on Seventh-day Adventists World Headquarters Project

Deat Mr. Alditch and Ms. Rappaport:
It is our understanding that on January 25, 1989, the Maryland State Highway It is our understanding that on January 2S, Administration "MCDOT") will be holding a pubilic hearing to present alternative proposais and ("MCDOT") whi be holdig proposed Improvements to Maryland Route 29 Columbla recelve testimony on propsed, Generai Conference Corporation of Seventh-day Adventists ("SDA"), we request that this ietter be placed into the record of the above-referenced proceedings and that SDA be given timely notice above-referenced proceedngs and related to Route 29 improvements.
proceedings, propore foccupant of a 29.37 acte lot located SDA is the ownet, developer and future occupant of a 2 Randolph Road and Route In the sourhwest quadtant of the the property is bounded by Old Columbla Pike, 29 in silver Spring. Specifically, and Tech Road. The property is presently being East Randolph Road, Route worid Headquarters of the SDA Chutch, which is belag developed to Sllver Spring from Takoma Park. In preparing the site design this multi-milition dollar (acillty, SDA, in keepling with its rundamentalility.

Resolution 10-1742 effective Februaty II, 1986, the District Councli rezoned prest intensity use). the property from R-60 o The rezoning approved development of 651,875 square fee headquarters and use eieemosynary and phed copy of the Amended Schematic Development Pian incidenral thereco. A redicated deveiopment footptint is attached hereto and diagramming the anticipachment " $A$ ".

On April 3, 1987, the Planning Board Issued an Opinion approving preiliminary On April 3, 1987, the Planning Board issued an The subdivision approval permits pian of subdivision No. 1-84246sisting of 250,000 square feet of office space and
 ert office space) of the SDA Worid Headquarters project. It is il occupanc eet SDA will commence occupancy of Phase 1 in Aprii 198. Phase n occupanc is projected to begin in January 1993. As a condition of its subdivision approval sDA entered into a May 18, 1987 Agreement with Montgomery County and bi-NCPP requiting, inter alla, that SDA construct a 155 space pabic parkent commencement equiring, inter ala, its property paralieling Tech Road of occupancy of Phase 1 .

On March 20, 1987, the Planning Board issued an Opinion approving site plan No. 8-86078 for Phase 1 (i.e., 300,000 square feet) of SDA's World Headquarters project. In accordance with this site plan approval and shase 1 and, as noted, building permits, SDA has commenced construction anticlpates occupying this phase in April of this year

Given the approvais recelved to date and the ultimate 3 -phase bulidout of Gord He and all proposed changes Its World Headquarters, SDA is very concerned abo SDA property. Obviousiy, SDA to Route 29 and the road network surrounding the SDA property. wouid oppose any road improvements or changes SDA or Impede or prevent full contrary to the governmental approvais istued to SDA or impede of SDA World development and use of the property ror Headquarters office and use related tocated at both ends of its property at East the possibllity of overpasses beling located, SDA would readlly support any proposed Randoiph Road and Tech Road. Conversely, SDA woud readicley and safery without road Imptovements that would increase enartiders project.
adverseiy Impacting the SDA Worid Headquarters por
Until SDA has had an opportunity to listen to the January 25, 1989 SHA/MCDOT presentation, it cannot definitively identify those proposed aiternative rerves mprovements that it would either endorse or oppose. Therefore, SDR the right to

Finally, we request that you give careful consideration to SDA's land use approvals, agreements and development plans as you work toward ilnalization of road improvements along Route 29 and the sutrounding road network. We remain avallable to assist in any way that we can

Very truly yours,


Attachment
cc: Robert Merryman John Ciark Jefl Rlese
Alex HekImian
Bud Llem
Donald Glibert Charles Preder Mrank Jones Randy Gregory Randy Gregor Edward Papazla


## Mardand Department of Transportation <br> State Highway Administration

## April 3, 1989

Re. Contract No. M 425-101-370 US 29, Sligo Creek to the Patuxent River PDMS No. 152019

Mr. John J. Delaney
Mr. Larry A. Gordon
Linowee and Blocher
Tenth Floor
1010 Wayne Avenue
P.O. Box 8728
silver Spring, Maryland 20907

Dear Mr. Delaney and Mr. Gordon:
hie leter ie in reeponse to the comments you provided at he public hearing on our propoeals for US 29 in Montgomery County and their effect to the General Conference Corporation of Seventh day Adventiete (SDA) site. Your input is valued and apprecia This material will be included in the tranecript and thoroughly coneidered in our altarnative, aleo, ae requeeted, wein apprieed of all major project mailing liet
project activitiee.

He are equally concerned with the affects of our study on the SDA oite. Garly in the study, we obtained a copy of the Amended Schematic Development Plan dated January 1988 from kaw to Enginearing. Wa were opecifically intereeted in any of the the layout of the buildinge and parking areas by any effect are the alternativee. The only alternativas roch Road Randolph Road. At grade separation alternativeo ately ceeential to have at leat an Tech Road, we feel it is abeod to southbound US 29 as proposed in on-ramp from old Columbia . The adjacent off-ramp propoeed in Alternatives $C-2$ and $D-3-2$. is not ae critical because traffic that Altarnative would be using it can be acconm. The essential on-ramp does Road grade separation propoure constructing Montgomery County's 155 pace park-n-ride lot. Enough engineering anaiysis 55 opace park omplated that the ramp can be situated betwaen it cor uture parking garaga. changae to tha lot.
My tolephone number is (301)_333-1139

Tololypowriter for impelred Hearing or Speech


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Mr. John J. Delaney
Mr Jarry i Delaney
Mr. Lage Two
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At Randol ph Road, only Alternative D-3 ffect on the SDA eite. A small portion of the sicection would be southwest corner of the US 29/Randolph Road to southbound US 29. outhaced by an on-ramp from Randolph Road to souchbe intersection This rami does not traverse any parking areas. some intersection improvements to the Randolph Road/Old Colunbla road in displace mprovants to the again, none of thee impovements displace any of your parking areas.

Again thank you for your interest in this matter. pleaee Again thank you we can provide further assistance or contactike to discuss these effects at a future meeting

Very truly yours.
Louis H. Ege, Jr
Deputy Directorment Division


LHE/RCA/in
. Neil J. Pedersen
Mr. Michael Snyder
Mr. John Clark (with incoming)


C\&P Telephone
a Bell ablente compeny

| Conslemation Prac: <br> $1 E$ Pial Siteen Batmore. Markiand 21202 13011539.9900 |
| :---: |
|  |  |

Maryland Department of Transportation
State Highway Administration

Re: Propoaed Route 29 Improvenenta at Musgrove \& Fairland Roada
,
Gentlemen:
This is in reference to the Alternative Diaplays Review on Maryland Routs 29 from Sligo Creek to the Patuxent River. C\&P is primarily concerned with the proposed improvements at Musgrove Road and Fairland Road. C\&P owns and has developed all the property abutting both the East and West aides of Route 29 between Fairland and Musgrove Road. On the Eat side is C\&P's Fairland Data Proceaaing Conter for which a third building is planned in the near future. That building muat be situated as between the existing buildings and Magrove Road.

The development on both of these propertiea ia aubstantial in cerma of scope and inveatment. C\&P has not only striven to sstablish and aintain attractive propertiea in parkiike settings but in developing these properties C\&P has relinquiahed significant cakings and provided multi lllions of dollars for the widening of Route 29. In addition, C\&R ulfilled the added requirement to supervise the highway contractor. Ae chis point in time CSP feels it bas already given well beyond its fair shers.

In addition, it should be recognized that both C6P properties have been daveloped in keaping with agreesanta between CEP and our residential neigbbora toward nininizing tha impact on these neighborhoods. In fact, a 200 foot wide buffer with hasy landscape screening exists around the perimeter of the Fairisnd Data Center. Even the Musgrove Road driveway
entranca was placed near Route 29 to keep treffic off tbe residential road.

In your plans you will notice that Altsrnative C, Concept 4 does away with the CsP driveway and establishes anew entrance in the heart of the away with the CEP driveway and eatablishes new entrance in the heart of violetes CsP's agreesants with Hontgomery County.

CEP's review of the proposed alternatives indicates that only Altsrnative B. Concept 1 would be considered accepteble to CsP and then only with some provision made for safe access to our Fairland Data Center driveway entrsnce from the Eastbound lane of Husgrove Road.

Attached are our comments on the various alternatives. Please eep us appraised of developaents on this project. C\&P will endeavor to do its best to be of help.
. V. Masterman

## alternative b, concept one

Under this plan, a second right-turn-only lane is being added from Southbound onto Westbound Musgrove Road and Musgrove is being widened by one lane along the Cheaapeake Complex property.

This alternative could possibly be completed with minimum impact on our Chesapeake Complex aite and ita stormwater management ponds. There would be minor impact on the Fairland Data Center property except for the need e acceaa to our driveway from the Eastbound lane of Muagrove Road.
aliernative b, CONCEPT tho
This plan places a right turn lane into the Southbound entrance onto Muagrove Road.

This plan would cut into our storwwater management ponds and is unacceptable, because of the impact to our Chesapeake Complex. The affect on our Fairland Data Center is not objectionable.

## ALTERNATIVE $C$, CONCEPT FOUR

This approach utilizea a cloverleaf exit from Route 29 to Musgrove Road and ia unacceptable.

This proposed route would totally remove our stormater management pond at the Cheaapeake aite and would leave us no other place to replace it. Unlike other proposed changes, this change would also require a aimilar amount of property from the Fairland Data Center to hande northbound Route 29 exit traffic at Muagrove Road. In addition, it would divert our entrance to the employees parking lot through the residential property along Musgrove Road.

## ALTERNATIVE D, CONCEPTS ONE, THO AND THREE, OPTION ONE

Similar to Alternative B, Concept Two

## ALTERNATIVE D, CONCEPT THREE, OPTION FOUR

Similar to Alternative C, Concept Four.






Maryand Department of Fransportation

Richard H. Trainor
Secratar
Secratar
Hal Kassor
Administrator
Administrator

April 4, 1989
Re: Contract No. M 425-101-370
US 29, Sligo Craek to the
Patuxant Rivar
Patuxant Rivar
PDMS No. 152019
Mr. Dal Waltar
Staff Suparvisor, Raal Bstata
$C E P$ Talephona. Company
Constallation piac
E. Pratt Strat

Baltimora, Maryland 21202
Daar Mr. Waltar:
This lattar is in rasponsa to tha commants you providad at This lattar is in rasponsa to tha commants you providad tha public haaring on our proposals complax of buildings at Musgrova County and thair affacts to your complax or bur This matarial will ba thoroughiy considarad in our davalopmant of a prafarrad ba thoroughl

As was discussad at pravious maetings with Mr. William A. Johnson, providing futura improvamants to US 29 to accommodata dasign yaar traffic foracasts is haring brochura raprasant raasonabla proposals to mat thasa foracasts. Thay wara davalopad raround axisting and proposad davalopmant that was availabla at around axisting and proposad affacts to your continuad devalopmant of tha Fairland Data Cantar on tha ast sida of US 29 may naad furthar rafinemant. In Altarnativas $C-1$ and $D-3-4$, tha accass from your parking lot to Musgrova Road wan ralocatad to provida from Your parking hat loop ramps to and from US 29. Tha location saparation mastad arbitrary and can ba movad closar to US 29 so that salactad was arbitrary agraments with montgomery county. $A$ you contorm with prior of at last 100 to 400 faat batwan this ralocacad accass roadway and tha intarchanga ramps will ba raquirad.

Rataining a signalizad intarsaction at Musgrova Road would ot adaquately sarva tha anticipatad traffic volumas. Tha traffic not adaquately sat for all of the study altarnativas shows that analysis complastion will raach undasirabla lavals at both Musgrove Road and Randolph Road. Dua to the proximity of thasa two intarsactions tha proposad grada saparation concapts must ba davalopad
aingla proposal. Davaloping separata, stand alona grada
 solution will ba similar to initiativas proposad in Altarnativas C-4, $\mathrm{D}-3-1$ or $\mathrm{D}-3-4$.

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Mr. Del Walter
Paga Two
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At this tima, we do not hava a prefaranca to address tha raffic congestion shortfalls on US 29. Currently, wa anticipata being in a position to formulate a racommandation later this year. You ara walcome to contact us now and then to chart our progress. If in tha interim you feal that an informal meating would be productive, pleasa contact us to schedula a convaniant date.

Vary truly yours.

Louis H. Ege. Jr.
Projact Davelopmant Division
by: $\frac{\text { Randy Aidrich } 000}{}$ Projact Manager

LHE/RCA/ih
cc: Mr. Nail J. Pedarsan Mr. Michael Snyder

## PROJECT <br> UEVELTP,:B:

App 7 liJ co nill '89

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\begin{aligned}
& \text { lo708 Margate Rd. } \\
& \text { Silver Spring, Meryland } 20901 \\
& \text { April 4, } 1989
\end{aligned}
$$

Maryand Department of Transportation
State Highway Administration

Rlchard H. Treinor Secritery Hal Kassoff dminiatrator

April 12. 1989

Re: Contrect No. M 425-101-370 S 29. Sligo Creek to the Petuxent River PDMS No. 152019

## Mr. end Mrs. Welton R. Herdy <br> 10708 Mergete Roed

Silver Spring. Merylend 20901
Deer Mr. end Mre. Herdy:
Thie letter is in responee to your letter of April 4th regerding our project plenning study on US 29 (Colesville Roed) in Montgomery County. You hed previously written to Representetive Constence Morelle with concerns about the study elternetives effects to Coleeville Roed.

A greet deel of thought hee entered into the study alternetivee. If the medien ie removed, es propoeed in Alternetive D, pedeetrien mobility will chenge. Beceuse the goal of thie alternetive is to enhence the treneit usage
cherecterietics of the US 29 corridor. ee envieioned in the
Eeetern Montgomery County Meeter Plen, pedestrien circuletion become coneidered more criticel. Coneequentiy, there ere elemente being coneidered ee pert of Alternetive $D$ to conetruct
Grenvililen pleeeing pedeetrian overpeeses et Sligo Creek conetruct eidewelke Creek Perkwey end MD 650 both eldes of the roedwey between sligo intereections end KD 650. A
intereections at sligo Creek Perkwey, Frenkin Avenue, Southwood Avenue, Lockwood Drive. Burnt Mills Avenue end Prelude Drive will be reteined. The timing of the eignel cycle et eech intereection pedeetrien to croea eneure ample time ie provided for e pedeetrien to croea eeven lanee of pevement. Mid block croeeing with e medien to provide eome refuge, ere not recommended.

Mr. and Mrs. Halton R. Hardy Page Two

I want to thank you for your interest in the highway development process as it relates to this study. please contact me gain if $I$ can provide further assistance.

Very truly yours,
Louis E. Ege, Jr
Deputy Director
Office of Planning and
Preliminary Engineering
by: $\frac{\text { Randy aldrich }}{\text { Radencia }}$
Project Manager
LHE/RCA/ih
ce: Mr. Michael Snyder

STATEMENT OF JERROLD HERCENBERG, ESQ.. A RESIDENT AND MEMBER OF THE BURNT MILLS MANOR CIVIC ASSOCIATION ON LOCKWOOD DRIVE/STATE ROUTE 29 ALTERNAI STATE HIGHWAY ADMINISTRATION AND THE COUNTY DEPARTMENT OP TRANSPORTATION JARUARY 25. 1989

Thank you for the opportunity to ahare my views on the proposed roadway alternatives for the Lockwood Drive aection of Colesville road (State Route 29), which ia the first intersection located north of Northwest Branch Creek. At this location, the state haa proposed four alternative approaches to address primarily future anticipated congestion. The four alternative concepta are:
A. - Leave the existing roadway unchanged:
B. - Cloae off the left turn lanea at various points between Eastwood Drive and New Hampahire Avenue (State Route 650):
C. - Establiah a new interchange at Route 29 and Lockwood Drive at an estimated coat of between 7-8 million dollara; and
D. - Establish a new high occupancy vehicle lane using a 3-1-3 configuration with an overhead lane control aystem.

Opinions in our community differ on whether the state should consider concepts $A$ or $B$, and whethef Concept $D$ the fraf $\mathcal{k}$ 3-1-3 lane without any median would be safe fin wet and icy egfelechy: weather. The consensus in our community is that concepts $A, B$, are the only reasonable options available for the Lockwood Drive area. Alternative Concept $C$ is opposed by our entire civic association and community. We do not believe it will be in the public interest or cost effective transportation policy to construct an interchange. Speaking peraonally, this proposal would have a severe and ruinous affect upon my neighborhood and my home.

I would like to direct your attention to Plate 14 of your hearing book displaying Lockwood Drive alternative Concepts 3, 4, and 5. All three concepts establish an interchange elevated over Coleaville Road/State Route 29 and converge two lanes of traffic from Lockwood Drive unto a aingle lane for traffic heading southbound. Thia design will likely create more traffic congestion unto Lockwood Drive than exists today and will ahift more Route 29 traffic congestion to Southwood Road where a new traffic light was installed last year. Because morning rush hour traffic ia frequently backed up from Southwood Road past Northweat Branch where the propoaed Lockwood Drive interchange would connect to Route 29, traffic from Lockwood Drive ia likely to encounter difficulty.

Without the assistance of traffic light, traffic from Lockwood Drive would have to merge with Route 29 traffic already backed up from Southwood Drive defeating the primary purpose of an interchange. If it wat not bad enough that thia interchange could add to traffic congestion, each of the three alternative concepts add unneceaarily more than $\mathbf{\$ l}$ milion to the cost and have underatated the costs.

All three concepta include a a outhbound ramp from Route 29 to the proposed Lockwood Drive Interchange. Thia aouthbound ramp haa only two potential purposea:
(1) to allow vehiclea to make a left turn onto Lockwood Drive and
(2) to allow vehiclea to enter the Manor Care Company parking lot.

Yet, theae two purposea do not aeem justified or reaaonable. Even if a high occupancy vehicle lane were added to thia corridor preventing left turna, cara needing to accesa Lockwood Drive from aouthbound Route 29 may do so from New Hampahire Avenue. In addition, cara rarely turn left at Lockwood Drive and the atate haa been unable to document more than 10 left turns per hour from aouthbound traffic to Lockwood

Drive. Mor cover, employeea of Manor Care routinely uae ita current entrances to enter its parking lot. Xet the atate alternative $C$ proposala includea a $\$ 1$ million dollar ramp to all three alternativea of the Lockwood Drive interchange designs.

Of the three concepta, Concept C-3 clearly haa the worat impact on my home and those of my neighbors. It would propoae to build an elevated ramp through the middle of my backyard and take up to 40 feet from the exiating roadway. The impact on my home would be devastating.


A1


A2

Pictures 81 and 82 following show what my backyard and my neighbor's backyard would look like under alternative concept 3. Please note that if Concept 3 is implemented, my backyard would be left with less than 10 feet of clearance from my rear deck. In my neighbor's yard, this proposal would eliminate more than one-half of the basketball court.


B1


B2


Although these picturea show how close the roadway would be placed to my home, one can not appreciate the increased noiae level from piggy-back trucks, buaes, and other vehicles. This propoal leavea no room for my four children who are all under age 12 to play safely in their own backyard. Further, imagine the quiet enjoyment our family would have everytime an 18 wheeler decided to uae the elevated ramp. Concept 3 would make my home unfit to live in and completely unmarketable. Yet, the state'a staff and the aumary of alternativea reveal that the state does not even intend to pay me or my neighbors for the losa of our homea. This grossiy underestimates the coat of thia alternative.

By contrast with alternative C-3, both concept C-4 and C-5 alao establiah a ramp, which leada only to the Manor Care parking garage. They do not even provide for left turns at Lockwood Drive. Yet, aa $I$ mentioned earlier, employees of Manor Care already acceaa their parking facilitiea by right turna Erom Route 29. To establiah rampa to accomplish right turna into Manor Care's parking lot when exployees have been able to do so for 15 yeara, ia a wate of taxpayer'a money and will aimply repreaent a million dollar boondoggle. In addition, theae propoala which take approximately 10 feet leaa of my property than Concept c-3 create the aame problema for me and my neighbors.

I would like to add two additional points about the Lockwood Drive, Alternative C Concepta.

Firat, because these alternatives will reduce available parking at Manor Care they may require conatruction of additional parking or building facilities by Manor Care that encroach upon the privacy of nearby homes. The entire Burnt Milla Manor Civic Association objecta to all of theae alternative $C$ concepts.

Second, our community ia concerned with the adverse impact and diaregard for safety created by the Lockwood Drive Interchange. For the 15 years 1 have lived in White Oak, there have never been adequate sidewalka along Lockwood Drive. If the state leavea stoplighta at Burnt Milla Avenue and adda a atoplight at Prelude Drive, we fear that the interchange will steer more traffic to Lockwood Drive converting its use from two single lane roads to a four lane super highway. This could reault in tragedy for the many familiea with young children who live and walk to synogogue, church, or recreational activities along Lockwood Drive. We also strongly believe that the interchange will undermine the afety to pedeatrian traffic in the area and may create barrier to pedestriana who need to cross Route 29 at or near Lockwood Drive.

Finslly, when $I$ moved to the White Oak Community, it was a quiet and safe community, and friendly to pedestrians. Even Route 29, although busy, was a highway net an expresswsy. If you proceed with planned Alternstive C for Lockwood Drive, you will effectively be building an expressway through the hesrt of s community which $I$ and msny neighbors spent the last 15 years building.

I realize your goals are to seek ways to mske progress for everyone using our transportation system. But progress can not be msde if it destroys existing communities or displaces tamilies. Alternative Concept $C$ is such a destructive alternative which physicsily splinters our community, wsstes the tsxpsyers money, and can not sccomplish its gosis. I hope your judgement will take these issues into consideration as you reject the Lockwood Drive C Alternatives Concepts. Thank you.
$7552 C$

Marland Department of Transportation
Richard H. Traino State Highway Administration

April 12, 1989
Re: Contrect No. M 125-101-370 Us 29, Sligo Creak to the Patuxant River Patuxant River

Mr. Jarrold Harcenberg, Esq.
10903 Hhealar Driva
Silver Spring, Maryland 20901
Daar Mr. Harcanberg:
This lettar is in rasponse to the comments you prasantad at tha January 25 th public haaring about tha project planning study of US 29 in Montgomery County. We appreciata recaiving this meterial and laarning how the proposed changes to us 29 mey affect your homa on whaeler Driva. Your input will be givan a thorough considaration in our development of a racomended altarnativa.

At this time, thare is no prafarred alternetive for US 29. A dateiled engineering end environmentel anelysis and an assessmant of all the correspondence raceived is underwey Somatime later this yeer, tha plenning teem will meke a racommendetion to the Administretor. After he formelly selects an elternativa, a final environmental document will be prepered that axeminas the salacted alternetive.

I want to thank you for your interest in tha highwey davalopmant procass as it relates to this study. plaase contact davalopmant procass as it relates to this study

Vary truly yours.
Louis H. Ege, Jr.
Daputy Diractor
office of Planning and
Preliminary Engineering


LHE/RCA/ih
ce: Mr. Michael Snyder

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\text { My tetephone number is }(301)
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Tolorpawilier for Impaliad Hearing or spaech
 107 Worth Celvert St., Seditmor in, Marylend $21203-0717$

10210 Colesville Road
3-ats hir tivililver Spring, MD. 20910


## al Kassoff

Maryland State Highway Administration
707 Calbert Street
Baltimore. MD 21202

## Dear Mr. Kassofi:

1 am writing to you seeking information on the proposals for Route 29.
As you will note from my address, I live right on the main, just a block from Four Corners, I am very concerned as to the impact the different proposals will have on life of residents in the area, in particularly the difificulty in crossing the street. As it is, it is nearly impossible to go across the street because of the stream of traific and hithout the median strip. There is no way one can go across without the median st

I would he grateful if you could enlighten me on the protective measures for residents that are being considered along with the are under consideration:

1. HOV lanes--which mean removing the median in some areas
2. Underpass at Pour Corners
3. Jughandes at Pour Corners-making right turns before turning left.

My questions are:
If No.l is accepted, what arrangements are being considered for pedestrians? Would this mean removing the median from all of Colesville Road (that is the area under consideration) or is this only north of Pour Corners

If No 218 accepted, my understanding is that there $\quad 111$ he an overhead crossing, but that will be at Four Corners-what happens to people north of Four Cozners coming off buses and boarding buses? Are they to come off the buses one, two, three blocks irom Pour Corners and then waik back to Pour Corners to get over to the other side of the road? This question also applies to people south of Pour Corners

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Has consideration been given to the people who live along Colesville Road, who chose to do so because of the convenience of getting to buses, etc.? Will driveways and more sidewalks be huilt to accommodate them?

If No. $31 s$ decided--what does this mean? Making a right turn before turning left --would the right turn be on to side street? what does this really mean?

As you can see from my questions, I do not know what the considerations are for residents in the area and $I$ do not understand clearly what the proposals will do. It would help me to understand better if 1 know what consideration 18 belng takso into account wen you consider each proposals and an explanation of what each proposal will rsally do. I also know that a decision has not yet been taken as to which way to go, and I am aware that all of the ahove are recommendations under consideration, hut i am in need of enlightenment.
In summing up, from my point of view, it seems to me, that no matter which proposal is approved--the residents in the area will be the losers. I think it is frightening that a road that is considered residential has been turned into a highway--that is outside the community--they are hehind--they also so back to the peace and quiet. state planners should really look further ahead and ifd a route to make a highway outside of this residential area for commuters without infringing on the rights of residents in and around without infriaging on the rights of residents in and around Silver Spring. Silver spring is a town, roads go off highways
into towns. if highways go through towns, then speed limits on that stretch of highway should be reduced to accommodate the neighborhoods. Turning Colesville Road into a major highway will not solve the problem of trafic congestion, the wider the rods. the more traific will it take--the more congestion will arise--this seems to me to make a never-ending problem. Why not try for an outer beltway now.

Grateful for an iearly response.
Thanking you.
Saphre Kuchands
Daphne Richards

NOTB: What I would like to see happen to Colesville Road is what What 1 would like to see happen to Colesville Road is what trees and shrubs growing. (Am I dreaming?)
cc. Rep. Constance A. Morella

Ms. Daphna Richards
10210 Colasville Road
Silvar Spring. Maryland 20910

## Dear Ms. Richards

Thank you for your March 23rd letter regarding our projact planning study on US 29 in Montgomery County. I can under your concarn about how our study alternatives may ars area. pedestrian circulation in and around for four corners. first

Thera are three basic propothing and allow the traffic alternative i proposes to do nothing and allow the eraific intion congastion to worsanits all laft turns at the Four corners proposal that proh US 29 and MD 193. Vehicles making laft turns crossroads betwed to jug-handle turn lanes behind tha Roy Rogers would Restation of an HOV lane along US 29, this proposal is designated poration of still requiras ramoval of the madian aiong Us 29 through Four Cornars. Hith tha operation or an no lan S US 29, this proposal is designated Alternative D-1. The hird besic proposal is to construct a grada saparation at Corners. In the grade separation, five lanas along corners. it is designated Alternative c-2. With an nov lane designatad Alternative D-3-2.

Regarding your specific questions, I can offer the following:

- If the median is romoved, pedestrian access will acrificed. At Four Corners, pedestrians Will be oncouraged to cross US 29 at the remaining signa intersections. This is especially true with tha proposed grade aaparation where it would not be possible to cross at location other signals would be intarsections. The timing of all the for a padestrian set to ensure ampla time is provided ba providad along to cross the roadway. all roadways to to the hoavy volum orosings, oven with median to corners, mid recomended.
- If tha madian of US 29 between MD 650 and Sligo Creek Parkway is replaced with a traval lane, additional masuras will be takan to enhanca padestrian travel and to encourage usage of mass transit. First, sidawalks are proposed along both sides of US 29 in this sagment Second, all of tha existing signalizad intersections will ba ratainad and tha timing of their cycla will be sat to ensure ampla time is provided for a padestrian to cross tha roadway. Finally, Whera thera are gaps betwean signalizad intersactions, pedestill not ovarpasaes are prophan two or thraa blocks to cross US hava to malk more than tould be considarad to cross . Thase orill Driva, Lorain ivanue and Oak laaf Driva.
- All of tha turns associated with the Pour Corners jughandle proposal would be made via axisting state routes. No traffic would ba intantionally routad onto routes. No traitic woulds. As an example, to traval south on US 29 and to access tha Hoodmoor Shopping south on motorist would make a right turn onto westbound MD 193. follow the jug-handle behind the Roy Rogers Restaurant, proceed across US 29 along eastbound MD 193, follow the jug-handla bahind the Methodist church and finally turn right into tha shopping center from wastbound MD 193. With signals to control traffic at the two jug-handles, this movament requires passage through four signalized intarsactions.

As you indicate, wa do not hava a prafarence at this time. We expect to salact an altarnative later this year after wa have assassed citizen input such as yours and completed a detailed engineering and environmental analysis. An alternate routing for US 29 along Sligo Creok Park had to be abandoned many years ago due to changes in Faderal and State regulations that make it all but impossible to impact perkland for transportation purposas

In many ways, the adoption of the alternativa $D$ proposal, or something similar to it, may minimiza tha offects to your portion of US 29. The intent of this proposal is to changa US 29 into a mora transit servicaabla corridor, as anvisionad in the Eastarn Montgomery County Master nacessarily more vehicles. The single largest concantinating bastern

## Ms．Daphna kichards

## Page Thrae

Montgomery County and Silvar Spring．Hith plans being developed by Montgomery County to construct as many as thrae to four thousand park and rida spaces in this araa and to operata express bus servica from the lots to silvar Spring via tha Hov lana．along patron a convaniant and dapandabla servica would develop．
usars with ccupant yah char oving their single clong us 29 south of MD 650 ，buld be ratained andy providad
expandad．This is why the proposal includas aeasures to anhance padastrian circuletion．

Your intarast in the highway devalopmant procass as it relatas to this study is appracieted．Plaasa feel frae to contact the project manager．Mr．Rendy Aldrich，if wa can provide urthar assistanca．Mr．Aldrich＇s telephone numbar is（301） 333－1139．


HK／ih
cc：Mr．Neil J．Pedarsan Mr．Hichael Snydar Htr Louia H．Ega，Jr．


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Maryland Department of Transportation State Highway Administration

Administrator

April 13. 1989
Re: Contract No. M 425-101-370 Us 29, Sligo Creek to the Patuxent River PDMS No. 152019

Dr. Earnest E. Harmon
9301 Colesville Road
silver Spring, Marylend 20901
Dear Dr. Hermon:
This letter is in response to your correspondence of April 8 th regerding our project planning study on US 29 in Montgomery County. I appreciate the constructive interest you heve shown in this study and the effects it has on the Sligo creek Parkwey intersection.

As we discussed on the telephone earlier today, the width of the perpetuel asement elong Sligo Creak parkwey grented to the State Highwey Administration by Maryland-Netional Perk end State Highwey Administration by epproximately 60 feet. The width plenning Commission in is approximately 30 feet. If the of theaches to colesville Road are widened to five lanes es
proposed in the 4-1-2 lane configuretion concept of Alternative $D$ protween $1-495$ and Sligo Creek Parkwey. the widened roedwey would be containad within this easement area. This is the only study alternative that proposes any chenges et this locetion. The similer 3-1-3 lene configuration concept, which proposed seven similer 1 ane proaches along silgo Craek Parkway, has been determined to be "not preferred" due tha impacts to the comaunities on both sidas of Colesville Road.

A copy of your letter documenting your problems with storm matar runoff from Colasvilla Road will ba given to our District Office and our Division of Highway Design for their consideration in the final design phase of the project. If widening does occu at this intersection, appropriate stormater snelyses will be performed to ensure that stormater reguletions and criteria are upheld. please feel free to monitor our development of the
proposals 30 that your concerns can ba dealt with et
appropriate stage of final design activitias. Currentiy. these proposals are not funded and thera is no preierred alternasions to Later this year, we will ba making a recommendation. provide funds to construct any or all of a recommended p

Dr. Earnest E. Harmon Pege Two

Agein, thenk you for your interest in the highwey avelopment process as it relates to this project. plaase development process as it relates forther assistance.

Very truly yours.
Louis H. Ege, Jr.
Deputy Director
office of planning end Preliminary Engineering


LHE/RCA/in
cc: Mr. Michael Snyder w/attach.

My telephone number is (301)_ 333-1139
Teloryp wilter for 1 Impolted Mearing or Speach
 707 North Calvert St., Deillmor A . Morylend 21203-0717

April 15. 1989 ec 3 County txec APR 181989
Kr. Sidney Kramer. County Executive
Montgomery County Government
Executive Office Building, 101 Konroe Street
Rockville, YD 20850
Dear Mr. Xramer:
: : : : . .

This letter is to express my concern with the proposed project to turn Route 29 into an expressway. Though I understand the difficulties faced by commuters from the up-county erea to downown Silver Spring and DC. I think the proposed project would have severa impacts on the commities along Route 29 . Worse yet. it will not accomplish what it sets out to do.

As the project has been proposed, creetion of an underpass in the four Corners area will accelerate the flow of traffic towerds downtown Silver Spring. However, a series of lights exist below Pour Corners. et the junctures of Route 29 and Prankiin, Sligo Creek Parkway. Dala Drive and other roads. Acceleretion of southbound traffic will simply shift the perceived bottieneck south of Four Corners, and tikely create e worse situation, es spill over occurs onto the edjoining streets, which ers for the most part narrow end residentiel in charycter.
The ingle pedestrien skyfoy which hes bsen proposed es en element of the plan is not enough to make up for the linited crossings. which will be evoilable south of Four Corners once tho median strip is removed. This will be particularly dangerous for students and the elderly who will have to contend with shortened lights or long detour to use tha skywey.
other elements in your "Exprassweyificetion of Colesville Roed", such es the proposed prohibition of left turns end creetion of jughandles at Leighton avanua end Pranklin Street, threaten, once egain, to convert residential streets full of femilies and children into dangerous thoroughfares.

Ths defects of this propossl are cleer; but the reasons for supporting it are less so. In ordsr to content commuters, neighborhoods ore beins saerifiesd. And wher will this eccomplish? Millions of dollers will be spent to shift the traffic jan from Pour Corners ons-helf mils further south to sligo Creak and Colssville Roed.

The enswer ia much simplar. Vehiculer treffic must ba lowered by shifting treffic to other routse (HOV on I-93 for sxempls) end increesing the use of public trensportecion and cer pooling. As a supporter of the Route 29 Coalition, I urge you end your colleegues to insist that stets officiels ra-exemine the


Silver Spring, MD 20901
(301) 585-4820

Aprii 15. 1989
Yr. Robert YeGarry. Trensportation Director Yontgomery County Government
Executive Office Building. 101 Yonroe Street Rockville. YD 20850
Dear Yr. ..cGerry:


This letter is to express my concern with the proposed project to turn Route 29 into an expresswey. Though I understand the difficultias faced by commuters from the up-county area to downtown Silver Spring and DC. A think the proposed project would have severe impacts on the communit it will not accomplish whet it sets out to do.

As the project hes been proposed, creation of an underpess in the Four Corners ares will accelerate the flow of traffic towerds downtown Silver Spring. However. e series of lights exist below four Corners, at the junctures of Rout of southbound traffic will simply Corners, and likely create a worse situetion. as spill over occurs onto tha edjoining streets, which ere for the most part nerrow and residentiel in charscter.

The single pedestrian skyway which has been proposed as an element of the plan is not enough to make up for the limited crossings which will be avilable south of Pour Corners once tho median strip is removed. This will be particularly dangerous for students and the elderly who will have to contend with shortenad lights or a long detour to use the skywa.

Other elements in your "Expresswayification of Colesville Road". such es tha proposed prohibition of left turns and creation of jughandles at Leighton avenu and Prenklin Street, threeten, oncs again, to convert residential straats fuld of families end children into dangerous thoroughfaras.

The defects of this proposal are clear; but the reasons for supporting it are less so. In ordar to content commtera, naighborhoods ere beins sacrificed And whet will this eccomplish? Milliona of dollers will be spant to shift th treffic jen from Four Cornars onehelf mile furthar south to Sligo Craek end Colesville Roed.

The enswer is much simpler. Vehicular treffic must be lowered by shiftine treffic to othar routes (HOV on I-95 for example) end incressing the use of public crensportecion end ier poolif he ther erete officials rs-exanins the plena for Route 29 with closer atrantion to tha concerns of ad jecant commities.


## Maryland Department of Transportation <br> State Highway Administration

## April 28,1389

Claudia Beville
2501 Salint Andrew's thay
3501 Saint Andrew's day
Silver Spring. Maryland 20901
Dear its. Eeville:
This is in response to your letter of April 15. 1989 to County Department of Transportation Director, Robert S. HcGarry expresing concern with the State Highway idministration's proposed improvements to U.S. Route 29.

The State Highway Administration has just completed the last phase of the U.E. 23 study. and during this process they held many meetings with citizen groups, ctuic associations and business owners. During this process the state. has heard many concerns expressed regarding this project. however, you have made an interesting observations regarding the sHi proposal. ro assure that: your concerns are addesesied, ilams andich. Pedestrian access and neighborhood quality of iffe are important issues to this county and to this corridor. You should aliso be aware that the County Executive has not taken a position regarding any of the alternatives for improvement to U.S. 29, and your concerns will be given full consideration before any decision is mude.

Thank you for oringing your concerns to our attention.
sincerely.

John J. Clark. Director ofrice of Planning and Project Development
JJC:AIR:adp:SS07U
cc: Mr. Randy Aldrich. Project Director. MSHA

June 1, 1989
RE: Contrect No. M 425-101-370
Us 29 - Sligo Creek to
the Petuxent River
PDMS No. 152019
Ms. Cleudie Beville
9501 Saint Andrew's Wey
Silver Spring, Merylend 20901
Dear Ms. Beville:
This letter is in response to your recent correspondence to Montgomery County Executive Sidney Rremer perteining to our project plenning study on the colesville Roed portion of us 29 north of siigo creek. Your comments ere eppreciated end will be given thorough consideretion in the selection of erecommended elternetive leter this yeer.

A greet deel of thought hes been given to the development of the study elternetives. If the medien is removed, es proposed in Alternetive $D$, pedestrian mobility will chenge. Beceuse the goel of this elternetive is to enhence trensit petronege in the us 29 corridor, es envisioned in the Eestern Montgomery County Mester Plen, pedestrien circuletion becomes ell thet more cruciel. Consequentiy, there ere elements being considered es pert of Alternetive $D$ to construct eestheticelly pleesing pedestrien overpesses et Silgo Creek, Grenville Drive, Lorein Avenue end oak Leef Drive, end to construct sidewelks elong both sides of the roedwey between siigo Creek Perkwey end MD 650. Additionelly, the signelized intersections opereting todey would remein end the timing of the signel cycles at eech intersection will be examined to ensure emple time is provided for a pedestrien to cross a seven lene roedway. Mid-block crossings of a roedwey with trovide some refuge es colesvile Roed. even with e median to provide some refuge, ere not recommended. At the most. e pedestrien would heve to welk only efew blocks to safely cross.

Between sligo Creek Perkwey and I-495, the 3-1-3 lene configuretion is not our preference. This lene syetem for Alternative $D$. which proposed using portions of Leighton avenue for rerouting left turn movements from us 29 (Jughendie concept) wes extremely unpopuler with the residents of the adjecent communities.

My toleohone number is $13011 \quad$ 333-1139
Toluypowriter for Impalred Haering or spegech 107 North Calvert St., Baltimore. Merylend 21203-0717

Ms. Cleudie Seville
June 1. 1989
Page 2

If alternative $D$ is ultimetely selected, current plans show it would be constructed with a len system that provides four lanes in the peek direction, two off-peak direction lanes end a continuous center turn lane. Left turns from Colesville Roed would be permitted at all times. Such a lent system hes been designated the 4-1-2 lane configuretion. Additionally, the promosel to widen Sligo Creek Perkwer'sepproach to seven lents is only essocieted with the ill-fated 3-1-3 ilene configuretion. With the 4-1-2 line configuretion, only five lanes will be needed to accommodate the increase e in traffic at this intersection. This proposal dose prohibit left turns from sligo Creek Perkwey which helps to diecourage through traffic. Finelly, to facilitets peak hour acceee from the Forth Hills of Sligo community, left turn will be permitted from St. Andreve Hey.

The proposed grade eeperetion et Four Corners is not proposed to merely move US 29 treffic through the congested intersection, but also to relieve the deceivingly high volume of traffic on both portion of University Boulevard. Peak hour delay on University Boulaverd nearly parallels the delay currently experienced on US 29. Our etudiee show that the current traffic congestion et Sligo Creek Parkway will not be worsened by the proposed Four Corner grade seperetion, primerily due to the revised lane belenca et this intersection.

I would like to thenk you for your intereet in the highwey development process as it relates to the US 29 planning study. development process as it reletes to the us 29 plenning Please cont

Very truly yours.
Louis H. Ene, Jr.
Deputy Director
Office of planning end
Preliminary Engineering


LHE/ARS/ih
CC: Mr. Mitchel Snyder
Mr. John J. Clerk

April 26, 1989
ARR 27.1960
Dear Mr. Kramer.



## CROSECT LEYELOF:OT <br> Cl:



I am writing to express my concern for pedestrian
safety and to urge restrained development in the Eour Corners area of Silver Spring. I live in the southwest quadrant of Four Corners.

The Brookland area of Washington, where I grew up, had a lot of traffic, but also had wide sidewalks, alleys, and ample parkland. One rarely felt endangered by motor development means more cars, and more cars in an area like this almost forces would-be walkers to drive. But aesthetic development never seems to occur without accomodation for pedestrians. Do people sightsee in Houston or tyson's Corners? County planners of the 1950's and 1960's should have foreseen urbanization of the inner suburbs and better prepared for it, but they failed.

Eorgive me for a bit of self-congratulation, but $I$ hope that $I$ represent part of the solution to the congestion dilemna: i usually commute by bus or bicycle to the Silver Spring Metro station. Walking to and from the bus stop, or to the Safeway and the Woodmoor stores, or just walking the dogs, is neither enjoyable nor safe because of the abundance and proximity of motor vehicles. Bicycling has enough problems to warrant a separate letter.

Here are some concrete proposals. Build sidewalks on Lanark Way, Lorain Street, and on Brunette Street down to siigo Creek. Keep the median strip on Colesville to aid pedestrians and to avoid frontal collisions between ehicles. put some ballparks in the Kay tract, or simply leave it as green island in this asphalt desert. Put some real sidewalks in the central Four Corners area. Real idewalks are about five feet wide and have grass strips on ine there is a wheelchair-bound person. crossing University onto the southwest corner by the Shell station, expected to go?

I know that the County government cannot simply dictate solutions, but it can attempt them, I ask elected or hour this neighborhood at rush hour before making any decisions. Einally, thanks for the addition to Paint Branch.

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& \text { wThomas Betsock, } \\
& \because \text { Ht. Revsöck } \\
& \text {-ast } 405 \text { inding Dr. } \\
& \text { Silys= Spring. MD } 20901
\end{aligned}
$$

Hr. Thomas Betsock
silver Spring. Haryland 2030
Dear Mr. Betsock:
This is in response to your letter to County Executive sidney Kraner expressing concern with the state Highway Administration's proposed Improvements to U.S. Route 29 between Four Corner's and Sligo Creek Parkway.

The State Highway administration has just completed the last phase of the U.S. 23 study, and during this process they held many meetings with citizen groups. civic associations and business owners. During this process the state has heard many concerns expressed regarding this project. However, you have made an interesting observation regarding the SHA proposal. To assure that your concerns are addressed, 1 am forwarding a copy of your letter to Mr . Randy Aldrich. You should also be aware that the County Executive has not taken a position regarding any of the alternatives for improvement to U.S. 29 and your concerns will be given full consideration before any decision is made.

Thank you for bringing your concerns to our attention.
Sincerely.

## John J. Clark, olrector office of Planning and Project

 DeveloprientJJC:ATR:adp:5507U
cc: Mr. Randy Aldrich, Project Director, MSHA

Mardand Department of Transportation
State Highway Administration

Juna 2, 1989
RE: Contract No. M 425-101-370
US 29 - Sligo Creek to
the Patuxent Rivar
PDMS No. 152019

## Mr. Thomas Batsock

405 Harding Drive
Silvar Spring, Maryland 20901
Daar Mr. Batsock:
This lattar is in reaponse to your racant correspondanca to Montgomery County Exacutive Sidnay Rramar partaining to our project planning study on tha Colasvilla Road portion of north of Sligo Craek. Your comments are appreciated and will be givan thorough considaretion in the alaction of a racomended alternativa latar this yaer.

A great deal of thought hes been given to the davelopment of the atudy alternatives. If the median ia removed, as proposed in Alternative $D$, pedestrian mobility will changa. Because tha goal of this altarnative is to anhance transit patronaga in the US 29 corridor, as onvisioned in tha Eastarn Montgomary County fas
plan, pedestrian circulation becomas all that mara es part of Consequently, thara ere elamants being considarad as part of Alternative $D$ to construct aesthatically pleasing pedasue and Oak ovarpassas at Sligo Creak, Granville Drive, Lorain avan of tha Leef Driva, and to construct sidewelks elong both sides of tha roadway betwean Sligo Creak Parkwey and mo ay would ramain and tha tha signalizad intarsections oparating today would will be examinad timing of the signal cyclas at each a padastrian to cross a to ensure ampla time is providad for a padas ran roadway with seven lana roadway. Mid-block crossings of with madian to traffic levals such as a padasprovida sone rafuge, are not recomm blocks to safaly cross.

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Mr. Thomas Betaock
June 2, 1989
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Page 2

I would like to thank you for your interest in the highwey devel development procesa aa it ralates to the $\begin{aligned} & \text { plase contact us again if wa can provide any further }\end{aligned}$ aaistance.
very truly yours.
Louis H. Ega, Jr..
Deputy Diractor Office of Planning and Preliminary Engineering


Projact Development Division
ce: Mr. Hichael Snyder

Ay tulephone 333-1139
Tanceppowitior for impalred Hearing or Spaech


overriding all of these items of personal mportance, however, is the impereonal anelysie of the wisdom of the current plen.

At present Route 29 carries 110 per cent of its capecity, at Four Corners, during rush hour By teetimony of the etete representative, five yeers and 30 million dollers later, the roed will be at 104 per cent of cepacity. one cen easily discern thet a few years leter, Route 29 will again require a major end expensive construction program.

The logic of the present plan therefore
defies reason. It is inadequete to the present needs lat alone the future needs.

May we suggest that the plan be remended to the appropriate agencies for re-study and epecifically with empheels on ueing light rail insteed of ever increesing numbere of cuto lanes The coet wili be higher initially, but with the ability to run longer trains, or increesing frequency of service, expanelorgued that this ine possible. is of greater luporing line. It would also be Bethesda-sil to eeek funding from the feeder appropis of couree, the number of parking speces not required by train riders should be included in the financial planning.
R. E. Encland 9508 ST. ANDREWS WAY silver spaing, maryland 20901
21 May 1989
1 Recid Courty txer MAY 241385 Mr. Sidney Kremer, County Exacutive 100 Marylend Rookville, MD 20850
Dear Mr. Kramer:
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\text { of: } \because \text { : }
$$

It ie not poseible to live adjacent to the oute 29 corridor and not have very strong feelinge about the propoesd construction program. feelinge about the propoesd construction program. For those of us whose "nelghborhood" streets wilh sudden. We wish to point out that consideretion should be given to more important factors.

Silver Spring is going to chenge from a feirly calm quiet place to live to a buetiling, crowded impersonel area coon enough with the propoeed office conetruction here. Let'e not execerbete the problem under the proposed Route 29 terms.

Copies of this text have been sent to the Montgomery County Delegation in Annapolis and to the County Council.



## Maryand Department of Transportaton

 State Highway AdministrationRichard H. Trainor
Socrotery
Hal Kassoff
Adminiatrator

June 15, 1989
RE: Contrect No. M 425-101-370
US 29: Sligo Creek to
the Patuxent River
PDMS No. 152019
Hr, end Mrs. R. E. Englend
508 st . Andrews Way
Silver Spring, Merylend 20901
Dear Mr. end Mrs. Englend:
This letter is in response to your recent correspondence to Hontgomery County Brecutive Sidney Rremer perteining to our oroject planning study on the Colesville Roed portion of US 29 north of sligo Creek. Your comments are epprecieted end will b given thorough consideration in the selection of e recommended elternetive later this yeer.

A great deal of thought has been given to the development of the atudy elternetives. The goal of the alternetives, especially Alternative D. is to move people, not necessarily more vehicles Early in the study process, tesk force delibereted with the epproprieteness of light reil trensit elong this coin en was concluded thet en exprese bus sy exclusive medien lene could satisfy the comuting cherac of Eastern Montgomery County end not be These deficiencies include operating deificicimor origins and destinetions trying to serva disparsed pattern of origins and destinetions the inability to construct lerge park and ride nots wide enough to end the nerrow medien south of MD 650 thet is not wide enough construct e doubl. report prepared by the ofrison of the two systems. A decision provides ade by the Marylend Depertment of Trensportetion that has been maties of light rail elong this corridor ere not Eurrented this time. Also, the design cheracteristics of the
 light rail if future traval demand cherecteristics chenge.

## Mr. and Mrs. R.E. England Page Twо

The proposed grade separetion at Four Corners is not proposed to merely move US 29 traffic through the congested intersection, but also to relieve the deceivingly high volume of traffic on both portions of University Boulevard. Peek hour delay on University Boulevard nearly parallels the delay currently experienced on US 29. Our studies show thet the current treffic congestion at sligo Creek Parkway will not be worsened by the proposed Four Corners grade seperetion, primarily due to the revised lene balence at this intersection.

I would like to thank you for your interest in the highway development procese as it relates to the us 29 planning study. please contact us again if we cen provide eny further essistence.

Very truly yours.
Louis H. Ege, Jr..
Deputy Director
Office of Plenning and
Preliminary Engineering


LHE/AHS/ih
Enclosure
c: Mr. Micheel Snyder
Mr. John J. Clerk

Ir. and Hra. R. E. England
is08 St. Andrews Way
illver sprinu. Haryland 20001
lear Hr. and lirs. England:
This is in response to your letter to County Executive sidney xrimer expressing concern with the state Highway Administration's proposed improvements to U.S. Route 29.

The State Highway Administration has just rompleted the last phase of the U.S. 23 study, and during this process they held many meetings with citizen U.S. 23 study, and during this process they held many meetings anth citizen
jroups.acivic associations and business owners. During this process the state B has heard many concerns expressed regarding this project. To assure that your concerns are addressed, I am forwording a copy of your letter to important Aldrich. redestrian access and neighborhood quality of tio are tare that the issues to this county and to this corridor. You should siso the olternatives County. Executive has not taken $s$ position regarding aly of full considerstion for improvement to U.S. 29,

Thank you for bringing your concerns to our attention.
sincerely.

## John J. Clork, Director <br> office of Planning and Project <br> Development

JJC:AIR:adp:5507U
cc: Mr. Rondy Aldrich, Project Director, MSHA

MARCH 20, 1990 SUPPLEMENTAL PUBLIC HEARING - COMMENTS AND SHA RESPONSES

Mayor Dell Goodis, Mayor of Takoma Park:
City opposes grade separations at US 29 and MD 193. Encourage mass transit including park and ride lots.

SHA Response:
The at-grade option, Alternative C-6 Modified was selected. Continuing studies on mass transit in cooperation with Montgomery County. See Section II.E.4.

Edward Simmons:
Supports Route 29 position which was no underpass. Opposed to any of the underpass options. Would like to consider light rail, especially along I-95.

SHA Response:
The at-grade option, Alternative C-6 Modified was selected. Continuing studies on mass transit in cooperation with Montgomery County. See Section II.E.4.

Mr. John Callow:
Represents the Greater Washington Board of Trade. Strongly supports the people moving capacity of US 29. In favor of grade separated intersections and operating express bus lanes.

SHA Response:
Improvements were selected that will assist in the movement of people and support improved bus service.

Rev. Wyatt, Marvin Memorial Methodist Church:
Concerned about impacts to church. They run a nursery school, the Washington Ear Recording and Broadcast Studio, and a regional public reading service for the blind. Concerned about construction impacts, noise impacts, and dust impacts.

SHA Response:
Alternative C-6 Modified has the least impact on the church as well as having a shorter construction period. Therefore noise, dust and other construction impacts would be minimized.

Tony Hausner, US 29 Coalition:
Supports the at-grade jug handle solution. Wants more study on light rail. Opposed to Contra Flow. Concerned about pedestrian movements through grade separated Four Corners.

SHA Response:
The at-grade solution was selected.

Mike Pfetsch, Woodmoor/Pine Crest Community Association:
Opposed to the underpass options. Wants more work done on light rail and other mass transit options.

SHA Response:
Alternative C-6 Modified was selected. Also, continuing to study mass transit in cooperation with Montgomery County. See Section II.E.4.

Eugene Sadick, Clifton Park Civic Association:
Concerned about delays at traffic lights. Thinks improvements are needed now at Four Corners. Increase mass transit to outlying areas. Thinks the underpass plans are to grandiose, could reduce right-of-way.

SHA Response:
Reduce right-of-way by selecting lesser improvement.
Derrick Berlage, US 29 Coalition:
Concerned that an underpass would destroy community cohesion and quality of life. Wants continued studies on the at-grade solutions.

SHA Response:
Selected at-grade option that includes landscaping and sidewalks which will contribute to community cohesion and quality of life.

Mark White:
Upset over upcountry people wanting trip reduction time. Doesn't want his community to suffer for their benefit.

## SHA Response;

By selecting alternatives that reduce the right-of-way impact the community does not suffer for others benefit.

## Elizabeth Symonds:

Opposes underpass options. Concerned about being able to walk to library and drug store. Concerned about construction and hardship it could cause to community. Interested in jug handle options. Supports further study of light rail, bus service, and controlled land use development.

## SHA Response:

At-grade alternative was selected which includes sidewalks to assist pedestrian movements.

Mr. Gerry Lane, Northwood/Four Corners Civic Association:
Supports at-grade solutions. Wants Montgomery County DOT involved to reduce neighborhood traffic.

## SHA Response:

Alternative C-6 Modified, the at-grade solution, was selected.

Phyllis Cochran, Seven Oaks/Evanswood Community:
Supports US 29 Coalition, opposed to the underpass. Wants further study on the atgrade options. Opposed to the removal of the median. Opposed improvements to the Sligo Creek Parkway intersection. Further support studies of light rail and controlled land use.

SHA Response:
At-grade option selected and dropped all alternatives that included removal of the median between Sligo Creek Parkway and New Hampshire Avenue.

Karen Michaels, South Four Corners Citizens Association:
Concerned about cut-through traffic during construction and afterwards. Concerned about pedestrian movements.

SHA Response:
At-grade solution provides for pedestrian movements throughout the Four Corners intersection. The selected improvements do not promote neighborhood cut through traffic.

Nick Brand, Action Committee for Transit:
Believe the study of busway and light rail was flawed. Wants another look at merits of light rail. Wants a truly transit oriented solution for the corridor.

SHA Response:
A follow-up report was developed that supported previous conclusions. Light Rail would be difficult to implement due to severe right-of-way constraints.

Harry Sanders:
Opposed to the Contra Flow bus lane. Concerned about safety.
SHA Response:
Contra Flow was dropped from consideration primarily due to safety and access issues.

## Michael Mullins, North Hills of Sligo Civic Association:

Opposed any underpass option and any removal of the median. Opposed to Contra Flow for safety and operational reasons. Concerned about neighborhood cut-through traffic with underpass options. Supports at-grade solution.

## SHA Response:

At-grade solution was selected at Four Corners. Contra Flow and options to remove the median were dropped from consideration. The selected improvements do not promote cut through traffic.

Bob Beckman, North Hills of Sligo Citizens Association:
Opposed to removal of the median for safety and pedestrian reasons. Opposed to pedestrian bridge because it is unsightly. Opposed to widening of Leighton Avenue which promotes neighborhood traffic. Supports more commuter buses.

SHA Response:
Options to remove the median were dropped from consideration. Also dropped were pedestrian overpass options primarily due to aesthetic concerns.

Donna Mizell, Sligo Woods Civic Association:
Supports US 29 Coalition. Concerned about cut-through traffic.
SHA Response:
The at-grade option was selected. The selected improvements due not promote neighborhood cut through traffic.

Mr. Karpe:
Concerned about traffic on Brunett Avenue during construction of underpass.

## SHA Response:

The at-grade option was selected.
Mr. Stan Truman, Dumont Oaks Homeowners Association:
Does not want the median removed in area of Prelude Drive. Wants sidewalks added to same area.

## SHA Response:

Options to remove the median have been dropped from consideration.
Ms. Joey Potter:
Concerned about noise impacts to the Metropolitan Washington Ear, the only radioreading service for the blind and handicapped in the greater Washington area.

SHA Response:
This is the same concern as the Marvin Memorial Methodist Church.
Mr. Frank Mahlman, North hills of Sligo Civic Association:
Opposed to widening of Leighton Avenue as it would encourage cut-through traffic.
Opposed to the Contra Flow and the 3-1-3 lane options.
SHA Response:
Options to remove the median and widen Leighton Avenue were dropped from consideration.

Ms. Mary Robbins, Dumont Oaks:
Supports light rail or monorail instead of underpass.
SHA Response:
Mass transit is understudy but no such improvements are recommended with this study. See Section II.E.4.

Mr. Peter Chang, North Hills of Sligo Civic Association:
Opposed to the 3-1-3 and the Contra Flow options. Does not want neighborhood cutthrough traffic.

SHA Response:
These options were dropped from consideration.
Mr. John Reilly, North Hills of Sligo Civic Association:
Concerned about the amount of property being taken and the associated cost. Also, concerned about environmental impacts.

## SHA Response:

No improvements were selected in the Sligo Creek Parkway area. They have been deferred until development rates and patterns have been more clearly defined.

Ms. Beverly Rexon, Indian Springs Citizens Association:
Concerned about quality of life after the improvements.

## SHA Response:

No improvements have been recommended in this vicinity. This is the Sligo Creek Parkway vicinity.

Mr. Brent Rouillier:
Concerned about pedestrian movements in Four Corners.
SHA Response:
Pedestrian movements have been accommodated within the at-grade option.
Joan Ennis, Allied Civic Group:
Supports US 29 Coalition position. Concerned about vehicle movement with the underpass options.

## SHA Response:

The at-grade option was selected.
Mr. Frank Schaeffer:
Opposed to use of Leighton Avenue and St. Andrew's Way in a jug handle.

## SHA Response:

These options have been dropped from consideration.

Mr. Walter Fisher:
Supports mass transit and wants to promote carpooling.
SHA Response:
A cooperative study is ongoing between the State and County to look at the appropriateness for mass transit. See Section II.E.4.

Mr. Charles Pritchard:
Opposes all grade separations.
SHA Response:
North of MD 650 several grade separations were selected, south none were selected.
Ms. Rita Schaeffer:
Opposes any improvements. Supports adding more buses, increasing parking fees, and reducing Metro fares from Silver Spring.

SHA Response:
Metro fares and parking fees are out the jurisdiction of the SHA. These elements were considered when the local planners were revising their master plans.

Mr. Brent Rouillier on behalf of Mr. Frank Lyon:
Supports at-grade solution and/or a light rail system.
SHA Response:
The at-grade solution was selected.
Mr. White:
Opposes improvements feeling they is no adequate time savings.

## SHA Response:

By reducing the congestion at the intersections, vehicles will achieve a time savings.

## INDIVIDUAL TESTIMONY PROVIDED TO A COURT REPORTER

Mr. Fred Brown:
With any option wants to retain the median.
SHA Response:
Options to remove the median were dropped from consideration.
Mr. Frank Howard:
Supports building more mass transit.
SHA Response:
Studies are ongoing.
Ms. Elizabeth Sanders:
Wants sidewalks in Four Corners and adequate pedestrian signal timing to cross US 29.

SHA Response:
These elements are provided with the at-grade option.

## Mr. Ken Noble:

Supports Alternative C-5.

## SHA Response:

This alternative was not selected.

Mr. Donald Esterling:
Supports mass transit. Opposed to Contra Flow based on safety reasons.

## SHA Response:

Contra Flow was dropped due to safety and access issues.

## Mr. Ronald Lane:

Supports Alternative C-5.
SHA Response:
Alternative C-6 Modified, the at-grade option, was selected.
Ms. Jean Dunnigton:
Put more buses on US 29 and provide subsidy.
SHA Response:
Continuing mass transit study in cooperation with Montgomery County. See Section II.E.4.

Ms. Dara Howard:
Opposed to any underpass option.
SHA Response:
The at-grade option, Alternative C-6 Modified, was selected.
Mr. Howard Levine:
Supports Alternative C-4 or C-5.
SHA Response:
The at-grade option, Alternative C-6 Modified, was selected.
Mr. Leopold May:
Supports light rail.
SHA Response:
Continuing mass transit studies are ongoing in cooperation with Montgomery County. See Section II.E.4.

Ms. Teresa Dunnington:
Concerned about the width of lanes, lane markings and travel speeds.
SHA Response:
Current AASHTO standards were used in the development of the alternatives.

NAME NANCY WILL/AMS OATE 3/20/76

Please
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fereus I faver light railiat the very leost enough public fransportation to five the drivers a reasonable alternative
I ropeat what I wrote after the last hearing of all
The SHA alternatives no grevith and jo hane are are
and fed help the pedestriuns
Dxit take the median=

FAir nuality un tunnel waculd be ouful, esp in simmer. Destruction of $L$ inernefs $x$ its businessise is not acceqtathe
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 Please detere mylour namolel from the melling Lisi. thrente, last hean in
 inv Entreilow, etc. So why are we going Thíu Thisagain?
is. Itancy Williams
illver Spring, Maryland 20902
Zear Ms. Williams:
Thank you for letter regarding the US 29 project planning study. Your comments are appreciated and will be incorporated into the remainder of the study.

The purpoae of the meeting held March 20 th was to keep the general public informed of the developments in the us 29 project planning study. Over the past year, the state Highway Administration, along with the Hontgomery County Department of Transportation, the Maryland-National Capital park and planning Commission, and local citizen groups, have developed new ait alternative. We wanced to give everyone an opportunity to review aiternacive.
in your letter you stated two specific points of concern The Eirst was about the air quality in the underpass. A grade separation would provide for better air quality. Most air and noise pollution is created when automobiles start and stop. So by reducing the congestion, we would in turn reduce the air and noise impacts.
:our second point was regarding the size ot starions for -ign: =3il. rrue. the stations themsel:es aze nor ...ar iarge ur :nere the majority of the land is neesed is ro provide soegrare parking facilities. ilong US 23 becreen Eiigo Craek :arting and liew Hampshire Avenue (HD 650), there is very litele zca:-: ind adjacent in the roadway, \#his is a major frcilen fict. :zaing co implement a light zail system in this area.
:Av relemonone number is $3011 \ldots \ldots$



- Fould like to thank you for your interest in the highway evolopmen it ralates to the 29 planning study. sevelopment proce as in if we can provide any furcher assistance z an ze reached in Baitimore at (301) $333-1139$ or toll free 1? 000-548-5026.

Very truly yours,
,ouls h. Ega, Jr.
eputy Director
office of Planning and
Preliminary Engineering
by: Huw. waltn
Gdorfe H. Waliton
Projett Manager
GW:in

> Frank John Schaller, M.D.
> 509 Leighoon dvenue
> Silver Spring, Marelland 20901
:z. iell J. Pederson, Elrector,
irfice of Zlarnims and Preliminary =ngineerinx
State :ilgh fidelnstration,
707 :/ort! Calvert Street,
(6inore cid., 21202
Eear irr. Pedersor:
iith zeference to the Colesvilie Foad s!:3macs.

 Colesville Road.

You and your people have hearit ryon the residen=3 of this area, concerning this jus inandie, many times. de have repeatediy told you that ":re don't want this, don't plan for $1 t$, don't do it". Fet, although we know you hear us, you seeminsly don't pay any attentic.:
to us.

This - The iorth ifills of silzo Park - is and cor many years has been for a comparatively and quiet resilens: :rould : ifs to destror our comatively poor reason, yo:a main highuay through $1 t$.
iiy wife and I and nine of our nelenbors live on tree two lane Lelighton fvenue. If jou would somero:i pus convert st. Andreus to $r=-i t i o n$ roid would not onl. around but convert ielghton Avenive to an exit thorous rare for our entire communit\%. This in exit thorousr that you : sould have to :riden our sereet by cuttinz Eack the droper=y on both sides. Cur homes irould ze closer $=0$ fie cars and tricies joinn they are or ther







Frank John Schaller, I.D
${ }^{509}$ Leightoon Avenue
Silver Spring, Mariland 20901
$\therefore$ arc: 17.19co.

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Colesvilije ard tren there is the prososed limit: at





Sincerely yours.
Franc, f.Scharfer,if.L.
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I ac amains：pler in the Jreen ミook－$\because=0$
 ari
 ：：ay．


 nere aeant to carry traific，not neixtborhood streets anjwhere．This proposed invasionof Lela！ton avenue is extremely shortsizinted（：je have jouna children ：ralkinz Lo：m our street to catch tre scrool bus ait st．incire：：s ：re：＇）． our street not really solve your probler tecause tite tyafilc ：Jill furnel tight oack to Colesville Eoad create on enorcous backup．

It is my bellef that you rent car frlvers to use the 首etro． irat is why $1 t$ ias built and hass statior at ill：er sort．i． lidening roads and invading nelahborhoods so＂ 1 mozove seocit ＂lou of cars＂defeats that purpose cateroricn11i\％．

The ：fay to get drivers to use the buses and $\because e t=0$ ：s 00 rin double－ininged tuses（clean）erery fe：＝1nutes $5=$ F：：st：

 parxing fees to discoursge drirint．$\because \because n t: r 11$ ：


 コローロ：••••・ニー

Dr．end Mrs．Erank J．Schaffer 509 Leighton Avenue
Silver Spring．Merylend 20901
Deer Dr．end Mrs．Scheffer：
This is in response to Your Merch 17 th letters regerding the latest propoaels in the US 29 project planning study．Thank you far your input：it will become part of the project record end uili be conaidered in our decision－meking proceas．

The project planning atudy for us 29 in Montgomery County has been ongoing for approximately four years．Eerly in the tudy，tha planning tam recognized the need to provide trenait in this corridor Due to the physical constraints，especielly south of the Baltway，removing the medien of Colesville Road for then oi aupplemental public heering brochure es the 3－1－3 lane conifigure tion．this plan wes subjact to oppoaition from the citizens of North Hills of Silgo and Indien Springs due to leck of community eccesa and the widening of Laighton avenue．

To address comminity eccess，a continuous center left turn lane wea added pielding tha 4－1－2 lane configuretion（plate lof Although preferable．the 4－1－2 still required the removal of the median．
plates 14 end 15 represent the latest concept in this portion of US 29 for providing trensit in the corridor．contre－ flow is tha result of citizen request to preserve the median whils ssill providing a time－sevings adventage co transic proposal تenicies．is shown on plates 14 and 15 ，the contre－rlow proposal does not＝equire the jug－handle movement or widening of eelghton dvenue．

Let ze essure you that we have heerd she objections irom the monict and do not condone rerouting commuter through traffis anmunicy and do not condone res．Theretore．the 3－1－3 lane －onijourarion has been labeled not preferred＂．
ix. and Mrs. Frank J. Schaffer
?ege Tro

The Stete Highway Administretion agrees with your opinion Ghat the US 29 corridor should be used to move people. not :ecesserily eutomobiles. Our express bus proposal serves this Enitietive by providing its petrons e travel time sevings. :owever, to tully reelize this sevings, several roedway improveaents need to implemented.

Thenk you again tor your involvement in the highway developnent process as it reletes to the us 29 study. If we can provide Surther assistance, pleese teel cree to contect me or the project at 1301) 333-1139 or toll free 1-800-548-5026.

Very truly yours.
Mief Peleasm
Neil J. Pedersen, Director office of Plenning end Preliminery Engineering

NJP:Ih
cc: Mr. Louis H. Ege. Jr. Mr . Creston Mills

STATE HIGHWAY ADMINISTRATION QUESTIONS ANDIOR COMMENTS
Contract No．M 425－101－370．PDMs No．＇． 152019 SUPPLEMENTAL PUBLIC MEETING
US 29 －Sligo Creek Parkway to
Mb 650 （New Hampshire Avenue）
Tuesday，March 20，1990，Northwood／Sherwood High School

Maryland Department of Transportation State Highway Administration
NAME Charlee A．Whittor
PLEASE ADORESS 9606 Sutherland Road
PRINT
CITYITOWNSIIver Spring Apr．4． 1990

## The etatement for Altermative $B$ doee not adequately emphasize the

 aianificant benefits which can be achieved by reetricting（oliminating） leftrtonns at＋the Pour Corners intereection．During the time when eix to ten cars are making left－turns，three lance of adrancing traffic e stopped．Because the epeed of the forward movement of cara ie eome－$\mathcal{S}$ at greater thiar that of left-turning cars, there would be an in-
ceeed flow of more'than thirty care during the eaved time. Due to ie controle eetabliohed by trappic lighte at sligo Creek．Pranklin id thoee north of Pour Cornere，the Jug－handle propoeel would aeeist th maintaining a uniform flow．Ae indicated by many other citizens， the propoeel for arr underpaes indicates arr obnormal flow resultine in 3erioue congeetion at the above mentioned traific lights．

He favor adoption of Alternative B with one exceprion．i：e etrongly ：nnose the cemovel of tre median．The volume or pedestrian treffic with －he consideration for their safety hae oeen rizorously emphesized by canv citizene of the region：We support their yiewe．

[^5]Please delate myrour nameis）Ifom the Malling List．
Porsons wno haverecoiveo
on the project Malling List．

Mr．Charlec A．Whitten
9606 Sutherland Road
Silver Spring，Maryland 20901
Dear Mr．Whitten：
Thie letter ie in reeponee to your recent correspondence regarding the project planning study for US 29 in Montgomery county．Your commente and support of Alternetive $B$ et Four cornars are eppreciated an will ba made part of the officiel project record．

The median removal through the Four Corners intereection is not directly related to the build alternativas．Inetead，the not directly related to the build alternatives．Ineit option．T removal of the median is a coneequence of in the corridor，the tuliy realize the time savings necouth of New Hampehire Avenue． The contre－flow option providee this extra travel lane without The Contra－Flowedian．Alternative $B$ ，or any other build alternative，could be implemented with thie lane treatment．

The cherts on page 14 of the project brochure ere not complete．They were simply meent to illustrete the relative dietribution of traftic within the intersections themselvee．You ere correct when eeying the treffic entering and leaving the intersection must be equal．

Thank you again for your insightful comments．If we can provide any additional informetion，pleaee contect the project panager，Mr．George Walton．George can be reached in Beltimore at（301；33j－1139 or toll free 1－800－548－5026．

Very truly youre．
Louls H．Ege，Jr
Deputy Director
Office of planning and Preliminary Engineering
by： $\qquad$ ージ・•••

Project Maneger
project planning Divieion
：HE：AHS：kw

> My teleohone number is 13011_ 333-1139


```
CHARLES A. WHTTTEN
    se0c avtwemLaND moad
```


P. S.

April 4. 1490
I euggest that your engineers review the "Percentage Traffic Distribution" figures shown on pare 14. The sums of the percentage values for all traffic entering and leaving the intersection from ths four directione ehould equal 100 . Ths numbsrs as shown suagest the relative diffarences for entering and turning but do not show the leaving. The error in reaconirg is due to placing numbers within the interssction. The intersecten might bs a rotary, a rsctangle, or a point. Ths cars within ths intsreection ars the result of having entered. They ars merely a sub-set. The percentagee for left and right turners from sach direction might be shown but the impact of such is also shown by indicating the leaving percentagee for sach direction.

As one engineer to another, "thank you for your attention".


Charies A. iihlten

## STATE HIGHWAY ADMINISTRATION

## QUESTIONS ANDIOR COMMENTS <br> RECEIVED <br> APR 3 LOS <br> Contract No. M 425-101-370, PDMS No. 152019 SUPPLEMENTAL PUBLIC MRETING <br> us 29 - Sligo Creek Parkway to <br> MD 650 (New Hampshire Avenue) 



IfWe wish to comment or Inquire about the following aspectsof this prolect:
$\qquad$

See attached comments as follows:
$6 t \mathrm{~T}-\mathrm{I}$

1. COMPENTS ON SHA PROJECT CONTRACT M 425-101-570, PDNS No.
2. US 29 - S1ico Creek Parkway to Md 6. 60 Sev_Hamp_Ave
, SUGGESTIONS EOR CONSINERATION AS PART OF THE COLESYILLE BOAD PROJECT
$\qquad$


[^6]*Parsons who heve recolved e copy of thls brochure througn ine mail ere airesdy on the prolect Malling Llat.

CO:i: $:=:-5$ A:: SUGGESTIONS ON TIE STATE HIGHI:AY ADIIINISTRATION PROJECT COXTFiLT Tij-101-3T0, PDNS No. 152019, US 29-SLi20 Creek Parkwav to Td. oj पjen tiampshire Avenue
by Richard and Sylvia G. Humphrey 9300 Colesville Rd., Silver Spring, Md. 20901

1. $\quad \therefore$ long-time residents and taxpayers living in Montgomery County, we 3 : $:$ :riting to protest the State Highway Administration's proposed plan : : : modifying Route 29 (Colesville Road). The pian as proposed wou:- $:=$ a serious detriment to the safety and security of our North Hili: : E Eligo Community. It does not provide sufficient safety margin for i:oneonners, pedestrians and motorists alike. Ne are categorically ODFOS=: to:
2. : : ijening Colesville Road and removing the median souch :: ?:anlilin Alenue down to Sligo Creek Parkivay.
$\therefore$. Fiking more property from homeowners who have houses along tie liest side of Colesville Road in order to add more highway lanes.
$\therefore$ Restricting the use of St. Andrews liay and blocking entry from this street into Colesville Road.
※. Changing the intersection at Sligo Creek Parkway as a way of "streamlining" Rt. 29 rush-hour traffic.
3. $:=$ is our understanding that plans call for removal of our median strip on Colesville Road in order to increase traffic capacity between University and Sligo Creek Parkliay. This removal will create a narrow, high-ocsupancy velicicle (HOV) lane for use by buses and van pools during rush ::ours. Though that sounds good in theory, because this "expressway" is finneling i:igh-speed traffic into a dead-end at Ceorgiz Avenue or 16 th Stras:. is : conçez: ion. jus even it zne buys this fantas\%, Bid pianne:s have already ackno:i iedged $: i=a t i=$ is oniy likely to prove a temporary siop-gap remed. With:- $j$ vears it's their expectation that development to the North will increase enoug̣in to oifser this remedy.
4. This cireap transient solution of median removal will come at the exoens = of tie safery of pedestrians in our neighborhood. Crossing Colesrille Road on foot between University Blvd. and Sligo Creek parkway is diticicult now, even with the median strip. Take it away, and there's no plase :or pedestrians to wait in reasonable safety. If crossing is more difiizult, jus ridership.by neighborhood residents may decrease--since at least once a day they'll have to cross Colesville to get to or from a bus 3 ioy. $:=$ may also discourage use of the YMCA and area churches by pedestrians.-particularly older residents or others who may not drive.
5. Eren : : the state were to propose a possible pedestrian overhead walkway spanning Colesville Rd., this doesn't solve the problem. First, only one walkway is planned between Sligo Creek Parkway and University Bluj. - not enough to make pedestrian traffic safe and convenient along t!:e enti:e siretch. Second, there is no assurance that the walkway will be $\begin{array}{ll}\text { atesisizis to those in wheclchairs or pushing strollers. Such walkways }\end{array}$ also iake up land and are terrible eyesores. They threaten to give our suburian connunity the look of an urban expressway.
6. In the interest of safety and security, we strongly oppose losing our front lawins to Colesville Road traffic. To aid those southbound comnuters tirning from Colesville Rd. during morning rush hours--without sac:i:icing any of the four lanes of traffic going on into downtown Silyer Spring, SHA would carve out an extra lane from the properties of homeowners bordering the west side of Colesville Road from Franklin Avenue to 51 i go Creek Parkway. Ke stand to lose valuable land, and more important, this plan would create a dangerous situation for pedestrians, resicents and motorists alike.
7. :idening Colesville Road by taking our front yards does not make senze. Currently homeowners have had virtually no margin of safety against :ite =isiaụ̄i: = or traffic coming south on Colesville Road. Over the past s : Pars, Honrgomery County Police have reported an alarming number of :ra: :i: accisents and resultant property damage along the southbound iancs 0 : Coiesville Road from Franklin Avenue to Sligo Creek Parkway. One :ass oni! to witness the condition of the frönt yards of the homes
aions this nortion of the Colesville Road corridor to understand how Emortant it is to maintain a safety barrier against traffic. Homeowners : :ave had to bear the brunt of vehicle damage to their front yards time and time again in this area. Speedsters have run up on their embankments, fiattened flag poles and power poles, destroved railings and shrubbery, :ut into the fire hydrant many times, demolished retaining walls, and senerally have destroyed the beauty of their lawns. The evidence of inis damage remains an eyesore and a constant reminder of the hazardous situation for motorist, homeowner and pedestrian alike. there simply is ㅇo margin for safetv in this area. In one particular incident last -une, a taxi ran up the steep grade along three properties (9300, 9304, and $\quad$ ojos colesville Rd.) crushing everything in its path, going at a : $:$ ish rate of speed, tore up porches, railings; shrubbery; and retaining a: als, coming to rest precariously at an angle on a stone wall it had :re:kei. :lost important, the taxi came only inches from plowing into the Eining room of the house at 9304 (home of Mr. and Mrs. Buckley). There is an ever-present danger because of the narrow margin between the home yards and the fast-moving lanes of traffic. Taking more land away from these properties and further increasing the risk of danger and death at the hands of speeding motorists and the resultant vehiclar accidents is unthinkable. Please don't ask us to give up this important safety buffer, narrow though it is. We need every inch as a margin of safety between us and the traffic.
$\therefore$ He are also very concerned•about the plan to widen the mouth of Eligo Creei Parkway to several more lanes. This rediculous plan would promote high traffic density on a 25 mph parkway designed to access to parks and recreation. The plan would endanger the safety of pedestrians, sthool kids. joggers, and bikers, and others crossing Colesville Road 3 = that inzersection. And handicapped people vould have no chance at all.
!. Einaily, :he proposed closing off of St. Andrews Way at Colesville Soad is conoletely unacceptable to us residents here who use this key Entersection daily. It is not fair that we have to lose a orimary entrance :o our North Hills of sligo neighborhood fust to keep commuter :raific moving. ilso, this plan would block the access to St. Andrews iay by emerzency venicles and that could be a matter of life and death.


#### Abstract

-4- lie feel that enlarging roads to encourage greater trafizic volume creates rather than solves traffic problems．We feel that so solve Kt． 29 traffic problems and protect our neighborhoods，more effective mass cransit planning is needed．The current proposal will NOT MEET THE MINUN SAFETY STANDARDS AND NEEDS OF OUR COMNUNITY．IVE OPPOSE THE PLAX AS IT NOV STANDS．WE URGE YOUR SUPPORT OF OUR POSITION．


## SUC．GESTICNS FOR CONSIDERATION AS PART OF THE COLESVILLE ROAD PROJECT

## by Richard and Sylvia G．Humohrey 9500 Colesville Rd．，Silver Spring，Nd． 20901

：ie resoectfully submit the following suggestions for consideration of ：：：e Ezate Highway Administration and the Montgomery County Council an：：$\because: n=\because$ Executive．We submit these ideas in the interest of saiety for zir ：orth Hills of Sligo community．

1．Eこ：：STRUCT A SIDENALK along the west side of Colesville Road between Fou：Corners and Sligo Creek Parkway，using existing land at the curb． Suc：：a sidewalk would encourage pedestrians to walk to buses，increase Na！：：inz satety and provide a buffer for properties and the Rt． 29 lanes 0 ：：： 3 Ej：$\dot{i}$ ，Currently，waikers have little or no chance to proceec with sa：：：－alons the grassy and rutty edge of the road as they struggie to ali：e＝：ei：kay to bus stops and intersections and cross the road．The road cis：$:=s$ dangerously at the top of Franklin Avenue southward so that pedestria： hate no chance to see oncoming traffic．We feel that homeowners along the ：：esc bank of Coiesville Road would welcome the construction of a side：alk in front of their homes，even if it meant taking a bit of their yaris io make it happen．Ve would all benefit．
：．ĖDUCIAG THE TRAFFIC SPEED ON COLESVILLE ROAD from Four Corners to Sli $\ddagger 0$ Creek Parkway from 40 mph to 35 mph ．This new speed would march the jomet：speed now enforced farther south between Sligo Creek and Georgia Avenue．The 40 mplh speed we now must endure is too fast for most motorists to nesotiate，due to the sharp curve at the rop of Franklin Avenue．The mots：$\because$ einicle accident rate is phenomenal along this section of Colesville Roas．F！e arez is very dangerous．A reduced speed would reduce the number of $:=$ ：i̇en：and provide a margin of safery for pedestrians as well．Right


ミ．FE：YDE L：HPROVED ROAD MLARKINGS AND LIGHTS TO WARN MOTORISTS $0 \vdots$ sie ianzeraus cirve and light ar Franklin Avenue．Berter street lighting is sorsi：丷 ：：esied to help drivers and pedestrians alike．iie also suggest ：tie $=: 3 n t i n g$ or trees along the median between the south and north lanes or Esiesi：iile goad to aid motorists and reduce glare of headifigh at ：inis Eingercus strip oi highway．
4. EXTEXD iHE liASHINGTON METRO SUBHAY SYSTEM from Silver Spring to Buriensiille. This would immeasurably reduce vehicular traffic along the entire $:$ :. 29 corridor and would essentially make the SHA proposal now beirg censidered for Rt. 29 obsolete. This would be the better use of our tari-earned taxpayers' money.

Mardand Department of Transporatton
State Highway Administration
Richard H. Trainor Socioser
Hal Kassoft

April 18. 1990

230 and Mra. Richerd Humphrey
300 Colesville Roed
Slver Spring, Merylend 20901
Eear Mr. end Mrs. Hunphrey:
Thenk you for your recent letter regarding the us 29 project planning study. Your comenta are eppreciated and will be
cives developed during the study end pertaining to the alternaFirst, let me respond to your concerns.
of the medien between Frenklin thet you were against the removel One option under the contre-fin Avenue ond sligo Creek Perkwey taking of the medien here, while elternetive does require the and vehicular sefety issues will bether does not. Pedestrien between Erenkilin Avenue ond sligo credion should be reteined
x zorinwey
ide of Colesville Roed the taking of property olong the west option wes developed to meintein bo edencere trevel lenes. This morning treffic heading towerds silver spring lenes for the hes four trevel lenes south of siligo Creek Perper Colesville Roed the lene north of silgo Creek Parkwey, we cen :urns grom US 29 onto Sligo Creek Perkwey. This lend is left urrently owned by the Stete Highwer Administreriond is

## ou la

ireer Perkway. These lenes obout the addition of lenes on sligo ar:xey; they ere only loceted not for che lengeh ot the
arixey; ehey ore only loceted ot the incarsection uith
osile Roed. Their purpose is to ellow for the turni
suucing congestiopereted from the through movements. therg
: $=$ promore high tyaffic density.

## r. and Mrs. Richerd Humphrey

?ege Iwo

Regerding the restriction of movements on St. Andrews Way. e ere trying to develop alternetives thet will ellow full eccess ahile meximizing the service cepability of the US 29/siligo Creek Perkwey incersection.

In reference to your suggestions of edding sidewalks, reducing the posted speed, and improving the roed markings, these are ell under the jurisdiction of our district office. I en lorwerding copy of your letter to Mr. Creston Mills, our Discrict Engineer for
for his consideretion.

Finelly, with regerd to your suggestion to extend the Metro Erom Silver Spring to Burtonsvilie, some of the seme problems Erom Silver Spring with this concept ther oxisted with light reil system. i.e.. leck of vecent lend to build the stetions or locete ede , proposed priority bus system.

If you heve eny turther questions or comaents regerding this study, pleese feel free to contect me or the project meneger. George welton. George's telephone number is (301) 333-1139 or toll free 1-800-548-5026.
very truly yours.

## Onil of pelencer

## Veil J. Pedersen, Director office of Planning end Preliminery Engineering

JP: in
se: Mr. Creston mills in/incoming :4r. Louis H. Ege. Jr.

March 23. 1990
Mr. Neil Pederson, Diractor
office of planning $f$ Preliminary Engineering State Gighway Administration
707 North Calvert Street
Baltimore, MD 21202

> Mr. Lincoln Talbot
> Ar. Bruca Smith
?aga Two

Also. Montgomary County is in tha process of plenning
improvements to some intersactions in tha Silvar Spring vicinity.
Sor specifics on that mettar. please contact Mr. Robert MeGerry,
Director of the Montgomery County Dapertment of Transportation,
Executive offica Building, lol Monroa Straet. Rockville, Maryland Executive offica Building, 101 Monroa Straet, Rockville. Maryland
20850. (301) $217-2170$.

Finelly, we egree that the long-tarm solution is mess
transit and wa have bean working with the county to implament a systam thet would rasult in significent improvemants in transit sarvice and. increasad petronaga. As you ara probably aware, we Avanua. This is tha firat of saveralion north of New Hempshire astablish priority traetment for mess transit in the us 29 corridor.

If you have eny furthar quastions or comments, pleese teel irae to contact me or the projact manegor, Georga Helton reel cen be raachad in Beltimore et (301) 333-1139 or toll frea 1-800-548-5026.

Very truly yours

## onai y Pelenem

Neil J. Pedarsen. Diractor
office of Planning and
Pralininery Engineering
:IJP:in
cc: Mr. Craston Mills Mr. Louls H. Ega. Jr

RECEIVED
osition of marvin meyorial united methodist caurce recarding tie proposed upgradng of u.s. route 29 at four corners

Our church la located on an island betwsen the esat and west lenea of University blvd. bordered on the west by Colesvilie Rd.(U.S.29). We are a seven day a week operation. la sdalion. to sany day and alght activitles associatsd with a large whe Church, we house a large nur broadcast atudlo, a regional public reading service for the blind.
secause of our location, the possibility of loslos church land, secause our concerm for the wall-being of the comenuity, we went to addrase critical lasues affecting us if the state of Maryland conatructa an underpass at Four comers. Wa feel that any, such construction whll have a severely adverse impact Church and the residents and buslaestes nearby.
are greatly concsined about possible structural danage to tha church due to excavation close to our foundation and/or the uss of explosives or heavy equipment duriag excavation. We will incur added malntenance and replacement costs lacluding ext palntlos and cleanup from hasy red soll and dut deposits $\mathrm{C}-4$ or during construction. If any underpans option (espaciall (-5) is chosen, ws expect the high noise levol turlak it conatructlon just a fsw feet from our windios to anks.

Tha nursery school, Washington Lar, vacation blbls achool, weddlings and raceptioaz wilt be happered arate wlth Washlagton critically atede torrinats thalr leass and ministry at Marvia Church if excessive noise or vibration lavels related to the cond construction make conditions unsuitable to thalt oneration At best, acesse to the church will be limited, diffleult, and nesey. The worst cass scmasio is that the church virtually would ba umusabla during much of a two and a half yaar or longer conatruction period. Iocraased costs and losil of lacome will gerlously jeopardise our programs.
buring construction of an underpasi, padsetrian and vehicular ancessa to and around Four Cornars wodoubtediy will be dengarou and difficult. Many buainasess, which ars part of the church commaty, ars ilksly to fail. Traffic jame during conatruction wlll be warse than they are nov. Sloce, at times 15 whi be oscessary to detour traffic through nelghborhood don't have ildevalks, and cut-through tratice will especially are concsmed with the safety of pedestrian and specially naighborhood children going to accidental interruption of utllitisi related to
in our oploion, building an underpase lis not an ecceptable olutlon because it whll cause large backupa at succeedin intersectloos. Since Colesilile road traffic muat be wetered la controlled manoer by use of traffic slgnale through the congeated latersections at silgo Creek, Dale Dr., Spriog St., Eenton St., Georgla Ave. and East West Bwy., the aoticlpated advantages of an underpass at Four Cornera are limited Solutions to congestion south of Four Comers should be implemented before, not after, wajor road construction et Four Comers. Estimates of grldiock for the beltwey vary but it lis likely that, even prior to completion of an underpses, traffle attempting to merge onto the beltwey will be backed up oo to RE. 29.
We belleve a jughandle alternative, dealgined to prevent cut-through traffic at Lexingtoo $\mathrm{Dr}_{\mathrm{r}}$. and shlfted slightly to the undevelopsd land south of the church, will subtantielly reduce the bottleneck prohlems at Four Comers with considerably leas disruption during congtruction and at underpasa). Shorter conatruction eime will raduce the damaging underpas:. Sheted ulth the conetruction. Presently back-upe effects assochated with the contruationes on Rt. 29 at in the north and southo often block a through-1ane reducing flow by a third. The proviaion of slemifleantly mors park and ride by ats if coabinad with the fughandle conatruction will furthar reduce and posalbly aliminate the traffic flow problen.

We feel that the only loag-tarm anlution to aspable portion of the air pollution, ecld rala, and ozone layer problems 18 to lessen automoblls traffic by deaigning adequats mass tranil systems. Ws tharefore request, prior to any underpess construction, the implementation of an in-depth lodependent study of mass tranilt, espscially light rall, encompensing Montgomery, Howard, and Prince Georger cnumties. Montgomery coumty action to downgrade the Rt. 29 corridor now, also will help control futura growth and traffic congastion
As a church serving the commitity, wa belleve that $\$ 35$ aillion may bester be spent on pressing social and enviromeental neads than on construction of an underpass. Tha health of the world depends upon the environanot in which we 1iva. The
ife of our children and grandchildren depend upo
 long-term rather than atopiap and soon obsolete.

## Approved by:

Marvia Church Re. 29 Iask Forcs - March 5, 1990 Marvin Church Board of Truatess - March 12, 1990 Msrvin Church Administrative Board - March 19, 1990

Richard H. Trainor
Socrotary
Hal Kassoft
Adminuturar

Mr. Lincoln Telbot, Chairmen
Administrative Boerd
Mr. Bruce Smith, Prasident
Boerd of Truetees
Mervin Mamoriel United Methodist Chureh
Silver Spring Bouleverd, East

Deer Meears. Telbot end Smith:
Thenk you for your recent letter regerding the US 29 project lenning study. Your comente ere epprecieted and will be considered throughout tha remeinder of the study.

In your letter, you steted eeverel iseuee thet vere of concern to you end the church. Regerding the disruption thet will occur during construction, wa will try to do everything within raceon to accomsodate tha church. If a build eltarnetiva is salected, particulerly ona of the underpees optione. there will ba noisa end dust during construction. We will formulete e construction plan to minimize this es much as possibla. We will lso take pracautions to insura egeinst danaga to tha church or its toundetion.

You wera also concarned about the congeetion during construction end that traffic would ba forcad onto neighborhood stracts. meintaining the existing numbar of lamahicuring eccass to all construction pariod, purasinessar and the church will ba maintainad during end after construction.

Construction of an underpass is not expectad to signifieenty increesa congastion at succaading intersections orer :oday's lavale. Sy utilizing the ramening signals on Colesville .ioed. ze will ba ebla to pletoon tha traficic. thus controliling :he arrival of vehiclae et thasa intarsections. This will geintain tha current lavela of sarvice et thesa incersections jtudies show that an underpass improves treitic klow in tha zvaning peak. By ramoving tha bottleneck at Four Corners in the sorthbound direction. tha backupa that occux on cha oould ba aliminetad. This would be a signiftcant satety improvezent.

```
Mr. Lincoln Telbot
4r. 3ruce Smith
```

age Two

Also. Montgomery County is in the process of planning mprovements to some intersections in the Silver Spring vicinity. or specifics on thet matter. pleese contect Mr. Robert McGerry. Executive Office Building, 101 Monroe Street. Rockville. Merylend 20850. (301) 217-2170.

Finelly, we egree that the long-term solution is mesa crensit end we heve been working with the county to implement a system thet would result in significant improvementa in traneit service end. increased patronege. As you ere probebly ewere, we eecently opened shoulder bus operetion north of New Hampshire Avenue. This is the first of severel steps thet will be teken to asceblish priority treetment for mass transit in the US 29 corridor.

If you heve eny further questions or comments. please feel iree to contect me or the project meneger, Gaorge Walton. George tree to contect me ortion (301) 333-il39 or toll iree 1-800-548-5026.

## Very truly yours <br> onil of Pelceran

Neil J. Pedereen, Director office of Plenning end Preliminery Enginearing
:IJP: in
c: Mr. Creeton Mille Mr. Louis H. Ege, Jr.

Mr. Edwerd Watzlar, President
Gratar Colesvilla Citizens Association
P.O. Box 4087

Colesville. Maryland 20914
Jaar Mr. Narzlar:
Thank you for your racant latear ragarding our project planning study for US 29 in Montgomary County. Your intarest in the highwey development procass is appreciated.

You comants concerning tha latest proposala at Four Corners Yeve bau comants concerning the taces and will oppear in the public meeting eranscript.

Thank you again for your comments. If we can provide eny additionel information. plaasa contect the project managar, Mr. ton. George cen ba 1139 or toll frea 1-800-548-5026.

Vary eruly youra.
Louis H. Ega. Jr.
Deputy Director
office of Planning end
preliminery Engianering
by:


HE:AHS:4
:33-1139

Mve teleotione number is 13011

jeste Elghway ddiulstration
cifice of planning and
Prelluinary Englneerimg
308717
2altlimore, in 21203
2e: os 29-slipo Creek to nd 650
Dear Sir:
Treeter colesillie citizens dssocletlon represents sone 3000 bousebolds surroundiag the lien Eapsenire hreave ind leandolph land intersectloa. As such, our bomes are cot lipacted by any of the proposed chasges to we
 iffected by proposed Improvements.
Surnary. Our first remetion vas to support one of the underpass/overpass options. Eoweres, we do not nou support any of the underpass/oreppass optlous. Lutber we support the sieple et-qrade liprovemants of using jug-bandle turn laves to provide left turns aloug Joirerslty soulerurd. Me elso urge that the state Mgray
 to derelop an effective pabile truapportation systell.
 than the previous underpasioverpass altaratives. ©cil thanks tom state ilgmay Luinistration for listarieg to citizen suypestions.

The use of the moderpass/orerpass options $C-4 / C-5 / D-3-4 / 0-3-5$ vith those modiflcations sugpated below would The use of the morerpass/orerpass options "at ieast in theory. Coci bellieres that in reality e sall

 outer loop. The reasen for this sion traffic is the large menber of rehicles cutering the soltray fron os 29. The traffic stacts to flow freely ocoe it bus bad echame to spresd ort, valct takes the sbort distance betuean os 29 and ceorgie drema. Inproving lour cormers vill fust sate the oatax locp slower is the soraisg, vith the realt that traffic vill back-ip throuph fort cornes os 25 going south into siliver - os 29 froin onirersity bivd. to slige creek vill create sisilar probl. sprisg. Darsfors, ooil oppoces ay mderpess/overpess alternative.

 io pay tor con intersection Inarovaent.
ise tumbs should ratber be spear on public trassportation. ©n to not syres vith four conness residants the the whorpessomerpas alterntive nill decresse thair quality of lifes they alreacy bave a surerely tograded quality of Lifs vith the tratfic coapertion, pollition. ad ext-throeqt traffic. in, movera igree viti the pour cormess resideats that the coustruction process aill bave enjor impact on both.

 residenits or those ivo ese os 29 and daiversity Mird.
: State lighar Adalaistratios decides to build any of tee underpass/overpass alternatiies, a plan needs to 3 developed to conplete Le process in one sumar as it inpacts tha traffic. We mould suggest ts 29 de
 : : is period must proceed 24 bours par day, seres days a yeek until all the lanes bave reopened.
$\therefore$ : Sernatives C-5 and D-3-5 if selected sbould be modified in order to improre the tos. is desiqued, a - iffic siqual is planned for os 29 to allow pedestrians and busea to cross. A pedestrian underpass at os 29 sould me constructed instead to allow thea to cross. nie buses sbould be forced to use the nev oniversity :ird underperes. Onagiog the bus stops by a fen 100 feat rould moneplish this.

Ind for Poblic Trnaspertition: balle cocil opposes any of the underpass/overpass attersacives for the zasons stated above, coci, bovever, balleves corrective ection is required. iife drlve over all parts or
 :reantir compieted elastern montopsery comity mustar plan raview vith the resil that some properties vere tranoped or the subdivision plan sodified to reduce future increared traffic coagestion. Diose actions do ijt adtress the existion comgetion.
 :sio to prolle trasportation. In rea vide pabile transportation pian meeds to to daveloped. It abould

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smald de moted that a good pablic trasportution syaten vill not elininte higsay coagestion for
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 ; a motion.

Zare is mach talk about the cont of policic trasportation to the war. We feni that this is only 080 ixctor. The othar inportmat facter Is traval tim. Hay pecple vili use pullic trasportitl

 iption. the sae lise would be for sorth bowed traftle is the moring asd for morth bound traffic in the
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## oce presidert

Maryiaris Uwoartment e. Tranaoortatior.
State Highway Administration office of
Planning ard Preitimiriary.Engineering
bor: 717
Baltimore. Maryiand 21 Es
Fe: Procoasa racoriatruction of US 23 from Silo Creak parkway r: MD 650

Dear Sire:
please enter tia ficilowirig statement into the project rector= to: the 20 Marin 1930 pubis: = Mating on thin aubject.

Aa reaidenta of the North fila of Gigo, wa are concerneo about the proposed reconstruction of U8 29. The Maryland State Highway Meeting, do not vary aignificantly from earlier proposals that met with intense criticism from the community in previous public Meetings. It doa not appear that the objections raised, and suggest iona made by the Community have been taken into consideration.
it is cigar to me, if not to the State Highway Administration that reaidenta of the Route ' 29 Corridor will not accept the following aspects of the State Highway Administration' Propoaily, in any of their various alternatives, concapta, or opt iona.

1. Grade Separation at the intersection of US 29 and University Boulevard - if implemented, this concept would be coatiy, disruptive during conentruction end displace current buaineacea. disruptive during construction, and laplace current Duriongoorhoods and onto residential streets, much as Brunet t Avenue, which are not designed for through-trafific, and which co not have sidewalks to protect pedeatrians. Many of these
 residential stremeting at unsafe sparta. In addition to having a negative impact on the character of these neighborhood, commuter traffic jeopardizes the safety of their residents.
2. Removal of the Median Strip Along US 29 - If implemented, this concept would discourage the use of bus ridership, as it would make it difficult and dangerous for pedestrians to croat inconvenient alternative.
3. Elimination of Left Turn Lane on Southbound Us 29 at sligo Creel - If implemented, rush hour traffic would be routed through established residential neighborhoods. As noted above. many of the neighbornoods in question do not have sidewalks, and throughtraffic would put migignborhood residents in danger, including schoolchildren. It would mipnificantiy lower property values in and destroy the character of, those nil iohborhooda.
$\rightarrow$ The Taking of Recreational Areas - The widening of Silo Greer ar 29 miner malice numerous mature trees up to four er at 29 would :raring in lava.

The state Highway Administration has not responded to Community - mono for alternatives that are consistent with the rasidentia amino for alternatives that are consist 29 Corridor. They and recreational character of that do not address issues and -oncerne roland by the community which includes encouragement of aulic transportation in leu of ingle automobile commuting the colic : of traffic congestion at intersections mouth of gigo Greek parkway mere automobile traffic ia likely to boteientek :he State Highway Administrations propolis are implemented, =1 scouragament

Administration should learn from ha Maryland State Highway Rdminia and do ta best not to repeat aistakea made in northern Virginia milit sacrifice close in them. The propoaaia made thus far will to dame commuter traffic residential communities in an businesses to leave the community, They will cause resident e anything, to case commuter traffic. and the will do live to road construction, much aa express jeaireabie aiternationed bua-stop iocationa and bus schedules, bunsen, HOV lanes, improved bua stations have not been adequately and !improved
The State Hiphmay Adminiatration'a No Build Alternative, would be The State Highway Administration a No and ineffectual alternatives far prefer
sircermiy,

3: ihard H. Trainor
...racry
Hal Kassoff
acmumatuer

Apri1 20. 1990

Mr. end Mrs. Kellett
9621 Brunett Avanue
Sliver Spring, Marylend 20901.
Deer Mr. and Hrs. Relletts
Thenk you for your recent letter regerding our profect plenning study for us 29 in Hontgomery County. Your interest in the highwey developaent procese it eppreciated.

You coments concerning the leteet propoeels for the raconstruction of Coleeville Roed and the eesocieted effecte to the North Hills of Sligo commuity heve been edded to the profect record ond will oppear in the public meeting trenecript.

Thenk you egein tor your coments. If we cen provide any additionel informetion, pleeee contect the profect menager, Mr. George tel intormetion, pleeee contect in Baitimore ot (301) 3331139 or toll free 1-800-548-5026.

Very truly youre.
Louie H. Ege. Jr
Depury Director
office of Plenning end
Preliminary Engineering.
by

cobrg: H . Helton
Profect pienning Division

SHE:AHS:Ih

My feleanone number ts 13011___ 133-1139___


UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration national marine fisheries service

Management Division
Habitat Conservat lon Branch Oxford, Maryland :1654

January 87.1989
Louis H. Ege, Jr.
Deputy Director
Project Development Div. (Room 310)
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21202
Dear Mr. Eye:
The National Marine Fisheries service (NMFs) has reviewed the Draft Environmental Impact Statement (EIS) for Intersection/access Improvements to U.S. Route 23 (Sligo Creek to the Patuxent River) In Montgomery County, Maryland.

NMFS is particularly concerned about impacts on riparian wetlands within the Anacostia River watershed, much as will gouge fill Improvements to Rt. 29. Intergovernmental efforts (including programs under the new Chesapeake Bay Agreement) are duryentiy working to improve water quality via retrofitting of stormwater systems and restore anadromous fish use via removal of berfiepa within this watershed. Conservation of floodplain wetland e, and their associated water quality enianolng valued in tibitalies such as Sligo Greek, Faint Branch, avid Little Faint Branch will be essential to the success of these program,

While highway 1 improvements disused in the EIS will hat result in largescale displacement of wetlands and stream habitat, the plan to widen the Rt. 23 corridor (proposed as a separate project) will compound the total impacts to the same port lon of the Anacostia watershed. Therefore, Impacts regarding both access/luterseation 1 improvements and agridol whining should be addressed within a single environmental document.

Of the various options presented in the EIS for improving aloes and intersections, we prefer those which will minimize riparian wetland losses. For example, Alternative E-1, or [D-9-4 will minimize impacts to Wetland \#l, which provides high nutrient aud sediment control values to the Little Faint Eicuich system.

Furthermore, we prefer options which will reduce ur eliminate the proposed stream relocat ins within tributaries 1 and g of the Lit tie Faint Branch watershed. Should relocation be required, criteria for design of new stream channels (discussed on page IVAs in the EIS) should Include plating woody vegetation along stream bank: , and/or, creating adjacent wooded wetlands (l, oman part of required compensation fur unavoidable wetland lusformaf enhallce new stream habitat.

## DRAFT

Finally, given its current state of poor water qually, the Anacostia River watershed should be the focal polint in locating replacement sites for unavoidable wetland losses that wlll occur within its tributaries from Rt. zg improvementa. Floodpiain wetland losses should be replaced in riparian locations where they may hydrologically interact with streams during periods of stream bank overtoppling by high flows. Additiolially, where much of the riparian land associated with this watershed is presently developed, early planning efforts regarding wetland compensation will facilitate locating on-site andor intra-waterilied replacement sites. Furthermore, prospective mitigation sites noted in highway right-of-ways or on adjacent propertien durfilg fleld luvestigations should be identified and described in the EIS to facilitate inter-agency coordination on this miatter.

If there are any questions concerning these comments, you may contact John S. Nichols, (301) 220-5771.

Sincerely,

Edward W. Christoffers Assistant Branch Chief

## SHA RESPONSE TO MES LETTER DATED JANUARY 27.1989

1. The impacts regarding access/intersection improvements and corridor widening are addressed in the FEIS.
2. Alternative C , with modifications, has been selected as the preferred alternate.
3. Three tributaries of Little Paint Branch would be affected by channel relocations. Due to the complexity of the MD Route 198 interchange, exact locations of these channel relocation will be determined in final design. New stream channels would be constructed for each of the areas to be relocated. The stream length of the relocated sections would be maintained; no loss of stream length would occur. The new stream channels would approximate the impacted channels in physical characteristics. To the extent possible, existing slopes and grades would be maintained. Rocks and gravel would be placed randomly within the new channels to encourage rapid naturalization of the stream bed and development of a pool/riffle sequence. The banks of the new channels would be stabilized before diverting the flow of the stream from the old to the new channels.
4. Approximately 0.55 acres of wetlands will be permanently impacted by construction. Wetland mitigation sites will be selected upon final design for the project.

# Montgomery County Government 

MEMORANDUM

January 19, 1989

TO: $\quad$| Aileen T. Rappaport, Program Manager |  |
| :--- | :--- |
|  | Planning and Project Development Office |
|  | Department of Transportation |

FROM: Philip E. Bennet fen, Manager, water Resources Group Division of Environmental Planning and Monitoring. Department of Environmental Protection

SUBJECT: Comments on Draft EliS for the US Route 29 Widening

I have attached comments from a number of specialists in the Division of Environmental Planning and Monitoring concerning water quality, air pollution, and noise control issues that should be addressed in the EIS. Please feel free to forward these comments to Nr. Ene for consideration.

A number of suggestions that were made would require detailed discussions between County and SHA Staff if they were to be implemented. We would be happy to meet with Montgomery County Department of Transportation and the SHA to discuss our suggestions further. Actually, we would prefer such a meeting instead of having our suggestions dealt with solely by a consultant in a responsiveness summary.

Thank you for the opportunity to participate in this review. please call me at 217-2380 if you have any questions.

PEB:rs/l 917 W
Attachments
cc: David Sobers
James Caldwell
Cameron Wiegand

# MEMORANDUM 

January 17, 1989

TO:
Philip E. Bennett, Manager Hater Resources Group

FROM:
James A. Caldwell, Manager


Environmental Monitoring and Enforcement Group
SUBJECT: Draft Environmental Impact Statement (EIS) USS. 29 from Sligo Creek to Patuxent River State Highway Administration (SHA)

We have reviewed the air quality and noise aspects of the captioned EIS, and offer the following comments:

## Air Quality

Experience in the summer of 1988, with SHA contractors widening [-270 indicates the need for improved awareness and control of fugitive dust. Construction activities where grading, other soil related activities or equipment movement are underway will create excessive dust conditions. The final EIS should define the methods to be used by the contractors for fugitive dust control. The mechanism by which the SHA and the Air Management Administration of the Maryland Department of the Environment will monitor and enforce contractor dust control requirements and the Maryland Air Quality regulations must be stipulated. It is not sufficient to define "Specifications" unless an adequate inspection, complaint handling and enforcement process is established for the construction phase.

## Noise Control

Methodology of mont coring and modelling was according to accepted practice and apparently diligently conducted. The chosen evaluation standard of 67 lea( $h$ ) is reasonable and proper.

The alternatives creating the HOV lanes would raise noise levels somewhat. However, with few exceptions, the projected increase would be 2-3 dEA. This is acceptable considering:

Jim Caldwell
January 17, 1989
Page 2
3. Due to the front line development along the highway, as stated in the EIS, barriers would not be feasible, and the cost would be prohibitive for a nominal reduction in noise.
b. Any slight increases in noise would be more than offset by the advantages of HOV lanes, and turning lanes during off-peak hours. Besides improving traffic flow, there should be some predictable impact on air quality; both directly measurable by the reduction of vehicle miles travelled and as part of the Regional Emission Reduction Plans.

The Construction Noise Specifications should be stated in the final EIS. A process for oversight and enforcement of the specifications should be developed with the State Air Management Administration and the Montgomery County Department of Environmental Protection. Attention should be given to the use of quieter equipment and improved operational techniques. The type, duration and nature of any contractor night work should be defined and noise mitigation methods applied to both equipment and operations, particularly in the more densely populated portions of the corridor.

We feel especially compelled to mention fugitive dust and construction noise. We normally handle those issues under our Air and Noise Ordinances, but the SHA has chosen, in the past, to invoke its immunity to local ordinances.

TO:bjb/4150I

## SHA RESPONSE TO MONTGOMERY COUNTY GOVERNMENT LETYER DATED JANUARY 17.1989

1. The construction phase of the proposed project has the potential to impact the local ambient air quality by generating fugitive dust through activities such as demolition and materials handling. The State Highway Administration has addressed this possibility by establishing "Specifics for Construction and Materials" which specifies procedures to be followed by contractors involved in site work.

The Maryland Air Management Administration was consulted to determine the adequacy of the "Specifications" in terms of satisfying the requirements of the "Regulations Governing the Control of Air Pollution in the State of Maryland". The Maryland Air Management Administration found the specifications to be consistent with the requirements of these regulations. Therefore, during the construction period, all appropriate measures (Code of Maryland Regulations 10.18.06.03 D) would be incorporated to minimize the impact of the proposed transportation improvements on the air quality of the area.
2. Typical construction would involve activities such as demolition, clearing and grubbing, earthwork, foundations, superstructures, paving operations, and finishing. Equipment used for these activities will be subject to Construction Noise Specifications to minimize impacts through control of the noise source, control along the sound path, and control at the receptor. Construction noise specifications will be incorporated into all construction contracts.

MARYLAND
DEPARTMENT OF STATE PLANKING
301 W. PRESTON STREET
BALTIMORE. MARYLAND 21201-2365

CONSTANCE LIEDER secretary

January 13, 1989

Mr. Neil J. Petersen, Director<br>Office of Planning and Preliminary Engineering<br>State Highway Administration<br>707 North Calvert St.<br>Baltimore, Maryland $2: 203$<br>SUBJECT: REVIEW AND RECOMMENDATION -<br>State Application Identifier: MD881122-0869<br>Applicant: MDOT - State Highway Administration<br>Description: DEIS US 29, Sligo Creek to the Howard Co. Line<br>Location: Montgomery County<br>Approving Authority: DOT<br>Recommendation: Endorsement Subject to Comments

Dear Mr. Pedersen:
In accordance with Presidential Executive Order 12372 and the Code of Maryland Regulations 16.02 .01 , the State Clearinghouse has coordinated the intergovernmental review of the referenced projects. As a result of the review, it has been determined that the project is consistent with Maryland's plans, programs and objectives as of this date. The State process recommendation is endorsement. Comments enclosed mentioned desirable alternatives for Md. Rte. 29. Also, it was suggested that safety measures be constructed to protect the safety of the Great Oaks Center clients. The Maryland Historical Trust requested additional information (maps and discussions) in order to make an informed review of the project with appropriate recommendations.

All directly affected State and local public officials were provided notice of the project. Review comments were requested from the following local juristiclions, military, and State agencies:

Department of the Navy, Montgomery County, Department of Education, Department of Agriculture, Department of General Services, Department of Public Safety and Correctional Services, Department of Housing and Community Development including the Maryland Historical Trust, Department of the Environment, Department of Health and Mental Hygiene, Department of Natural Resources including the Coastal Zone Division, and the Department of State Planning.

Mr. Neil J. Pedersen
Page 2
January 13, 1989

The following specific comments are provided for your consideration:
The State Historic Preservation Officer has determined that the project may affect archeological or historic resources listed in, or possibly eligible for the National Register of Historic Places. Section 106 of the National Historic Preservation Act and the federal Advisory Council on Historic Preservation's regulations ( 36 CFR Part 800) require that the Advisory Council be given the opportunity to comment when a federal undertaking will affect resources listed in or eligible for the National Register. The Trust indicated the Section 106 review needs to be completed. The Maryland Historical Trust indicated that the Phase I survey identified four archeological sites adjacent to or outside of the proposed right-of-way and the Executive Summary included recommendations regarding those sites. The Trust requested maps showing the area location and site's boundaries and detailed discussions on the sites in order to review the project with appropriate recommendations.

Department of Health and Mental Hygiene suggested that appropriate safety measures (fences, walls, etc.) should be constructed one mile to the north and one mile to the south of Randolph Rd. on Md. Rte. 29 in order to protect the safety of the Great Oaks Center clients.

Department of Public Safety and Correctional Services noted (copy attached) that Alternatives A and B should not be considered as they allow for no improvement on a roadway which is already operating beyond capacity at certain locations. The Department indicated that Alternatives C and D appear to be more favorable to public safety needs. It was also noted that plans must be amplemented to increase the number of law enforcement personnel patrolling the 10.58 mile segment of the roadway under study.

Department of the Navy and the Department of Natural Resources have not responded to inquiries as of this date; however, if comments are received, they will be forwarded.

In response to the review request, this letter with attachments constitutes the State process recommendation. The applicant is required to include a copy of this letter with attachments and a statement of consideration given to the comments and recommendation with the application that is submitted to the federal approving authority. A copy of this statement should also be submitted to the State Clearinghouse. Additionally, you are required to place the State Application Identifier (SAI) Number on the application for financial assistance.

The State Clearinghouse must be kept informed if the recommendation cannot be accommodated by the federal approving authority. The Clearinghouse recommendlion is valid for a period of three years from the date of this letter. If the approving authority has not made a decision regarding the project within that time period, information should be submitted to the Clearinghouse requesting a review update.

Mr. Neil J. Pedersen
Page 3
January 13, 1989

We appreciate your attention to the intergovernmental review process and look forward to continued cooperation.

Sincerely,
7 Mary. $\lim _{\text {ABrams }}$
Director, Maryland State Clearinghouse for Intergovernmental Assistance

MJA:SB:scl
Attachments

cc: Bruce Gilmore - BAR<br>Sheila Moskow - DHCD<br>Mac Voelcker - MDE<br>Betsy Barnard - DFNH<br>James Duffy - DAGR<br>Lorraine Flowers - MSDE<br>John O'Neill - DPSCS<br>Nancy King - MTGM<br>Eric Walbeck - DGS<br>L. Chernikoff - (Dept. of the Navy)<br>Roland English - DSP

for Intergovernmental Assistance
301 West Preston Street
:Eimore, Maryland 21201-2365
SUBJECT: REVIEW AND RECOMMENDATION
State Application Identifier: MD881122-0869
Applicant: MDOT - SHA
Description: DEIS - US 29, Sligo Creek to the Howard Co. Inc



Responses must be returned to the State Clearinghouse on or before December 23.1988 Based on a review of the notification information provided, we have determined that: Check One:

1) It is consistent with our plans, programs, and objectives. For those agencies which are responsible for making determinations under the following federal consistency requirements, please check the appropriate response:
—_ It has been determined that the project has "no effect" on any known archeological or historic resources and that the requirements of Section 106 of the National Historic Preservation Act and 36 CPR 800 have been met.

It has been determined that the requirements of Maryland Coastal Zone Management Program have been met for the project in accordance with 16 USC 1456, Section 307 (c)(1) and (2).
2) It is generally consistent with our plans, programs, and objectives, but the qualifying comment below is submitted for consideration.
3) It raises problems concerning compatibility with our plans, programs, or objecelves, or it may duplicate existing program activities, as indicated in the comment below. If a meeting with the applicant is requested, please check here $\qquad$ -
4) Additional information is required to complete the review. The information needed is identified below. If an extension of the review period is requested, please check here $\qquad$ -
5) It does not require our comments.
comments: It 1 s vespectully suggested that appropriate safety manures, Ale. fences, walls he comstunded are mite to The moth ad ave mile to the south Rawifph Rd. An Nt. 2 a t protect The sapele a effing Great oaks Canter clients.
(Additional comments may be placed on the back or bn separdie sheets of paper.)

RECEIVED Mr: ese - . $\therefore$ ainu. finE CF



Director
Maryland State Clearinghouse
for Intergovernmental Assistance
${ }^{\circ} 11$ West Preston Street
bAltimore, Maryland 21201-2365
SUBJECT: REVIEW AND RECOMMENDATION
State Application Identifier: MD881122-0869
Applicant: MDOT - SHA
fEC 221988


Description: DEIS - US 29, Sligo Creek to the Howard Co. Line

Responses must be returned to the State Clearinghouse on or before December 23, 1988
Based on a review of the notification information provided, we have determined that:

## Check One:

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4) Additional information is required to complete the review. The information needed is identified below. If an extension of the review period is requested, please check here $\qquad$ -
5) It does not require our comments.

COMENTS: See attached report.
(Additional comments may be placed on the back or on separate specie of papery)
Signature:
Name:
John K. O'Neill




cinismonth Sun.
The primary objective of the Maryland State Police in the Washington Metro area is to ensure the safe and orderly flow of traffic. Therefore, when reviewing the Draft Environmental Impact Statement for the proposed future of U.S. Route 29 from Sligo Creek to the Howard County line, the impact categories of traffic, safety, neighborhood and social groups and community facilities wesp considered.

Because projected traffic volume on the subject portion of Route 29 is expected to increase by some $58.8 \%$ by the year 2015, from a public safety standpoint, improvements must occur to stimulate traffic flow, reduce accidents and increase development safety and emergency accessibility; therefore, alternatives $A$ and B should not be considered as they allow for no improvement on a roadway that, at certain locations, is already operating beyond capacity. While the area under study is not now experiencing an alarming accident rate, such cannot be expected far into the future j.f measuresiare not taken to meet the projected traflic volume increases.

Alternatives $C$ and $D$ would appear to te more favorable to public safety needs. Alternative $C$ would generally improve traffic flow while alternative $D$ would promote use of the HOV lane by intentionally causing congestion to those on the mainline.

It should be noted that plans must be made to increase the number of law enforcement personnel patrolling the 10.58 mile segment of the roadway under study. The Maryland State Police currently has one trooper dedicated to the area around the clock. This number should be at least doubled; therefore, an additional five troopers should be assigned to the Rockville Barrack in anticipation of an increased demand for police services.
cc: Lt. Col. L. V. Booker, Chief, F.O.B.
Capt. Brooks, Troop Commander, Wash. Metro Troop
1/Lt. McAfee, Barrack Commander, Rockville Barrack

Director
Maryland State Clearinghouse
for Intergovernmental Assistance
301 West Preston Street
.timore, Maryland 21201-2365
SUBJECT: REVIEW AND RECOMENDATION
State Application Identifier: MD881122-0869
Applicant: MDOT - SHA
Description: DEIS - US 29, Sligo Creek to the Howard Co. Line

Responses must be returned to the State Clearinghouse on or before December 23,1988 -

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5) It does not require our comments.

COMMENTS :
(Additional comments may be placed on the back or on separate sheets of paper.)


JAN :
Address:
CRESTS, C:GPE GF
VII-174

## RESPONSE TO MD DEPARTMENT OF STATE PLANNING LETTER DATED 1/13/89

1. The Advisory Council on Historic Preservation (ACHP) concurred with the Maryland SHPO that proposed roadway improvements to U.S. Route 29 would have no adverse effects upon significant historic properties (see ACHP correspondence, 12/9/93 Section VII.A-E.).

No archeological sites have been recorded in or near the current project area. Given the degree of previous disturbance from residential and commercial development, and road construction along the U.S. Route 29 corridor and the U.S. Route 29/I-495 interchange, it is unlikely that potentially significant prehistoric archeological resources would be affected by proposed construction. On February 11, 1993, the SHPO rendered a no effect determination for archeological resources (see SHA correspondence, 1/12/93 Section VII.A-E.).
2. Noise barriers are going to be constructed one mile to the north and south of Randolph Road along Route 29. Specific noise barrier locations and designs are included in the FEIS.
3. Alternative $\mathbf{C}$ was the selected alternative. The corridor under consideration for improvements is 11.35 miles in length, not 10.58 miles.
4. Comment noted. The Final EIS will be circulated to appropriate federal, state and local government agencies, citizens groups, and civic associations.

# Montgomery County Government 

MEMORANDUM

December 20, 1988

TO: Philip E. Bennett, Manager Water Resources Group

FROM: Cameron Wiegand, Senior Planning Specialist Water Resources Group

SUBJECT: Comments on Draft EIS For U.S. Route 29 Improvements (From Sligo Creek to the Howard County Line)

The principal environmental impacts discussed in the November, 1988 draft report focus more on the effects of the various alternatives on air quality and neighborhood noise than on water quality. I therefore suggest that Jim Caldwell's group also review the EIS.

My comments on water quality impacts are 1 limited to the following areas:

1. Anacostia Restoration Agreement - The EIS should be augmented to acknowledge that there is an Anacostia Watershed Restoration Agreement signed by the Governor, the Montgomery and Prince George's County Executives, and the Mayor of the District of Columbia. This Agreement is backed up by major commitments from public agencies in these juristictions to implement special protective measures and projects to help restore seriously degraded stream habitat and water quality conditions to a more natural and desirable state.

Montgomery County and the other signatories to the Agreement are committed to doing much more than meeting minimum development standards and regulatory requirements to fulfill watershed restoration objectives. However, as now presented in the EIS, MD SHA is simply proposing to meet the normal regulatory requirements for stormwater management, sediment control, and wetlands protection. In accordance with the spirit and intent of the Agreement, we should ask that MO SHA commit to doing more on the Route 29 project to contribute to watershed restoration objectives. (Possible areas where this could be accomplished are highlighted under comments \#2-5).
2. Wetlands - The various project alternatives would impact up to 2.93 acres of wetlands. MD SHA proposes to replace these "... on a one-to-one basis, if required." (P. IV -49) We should point out that MDE guidelines now call for a minimum 2:1 replacement ratio for wetlands losses and insist that MD SHA also adhere to these guidelines. We should also seek even higher levels

- of mitigation for any wetlands affected along Northwest Branch (Class IV). (According to the report, wetlands along Paint Branch will be unaffected).

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PhiTip E. Bennett
December 20, 1988
Page 2
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3. Stormwater Management Retrofit Opportunities - Both Montgomery and Prince George's Counties have committed substantial funds to upgrade existing drainage structures in the Anacostia watershed to improve their performance in water quality control and peak runoff detention. These pilot projects involve the application of stormwater management controls to areas which developed prior to current regulatory requirements for such controls. MDE is also working with Prince George's County to implement a "theme park" to demonstrate effective stormwater control technologies. This theme park is to be located in the Fairland Regional Park (which incidentially places it very near the major construction site the SHA pians for the Route 29 interchange with the Inter-County Connector).

MD SHA should be urged to work closely with MDE and County staff to explore opportunities for upgrading runoff controls in conjunction with road construction work in the Route 29 corridor, especially around stream crossing and nearby headwater areas. Hopefully, some of the stormwater controls that would be required under current regulations could be designed to capture additional road and off-site drainage at little additional cost. The implementation of stormwater retrofit controls in conjunction with Route 29 improvements could measurably contribute to Anacostia watershed restoration objectives. The planned interchange construction with the ICC should afford an excellent opportunity for innovative stormater controls which would both contribute to Anacostia restoration objectives and to the educational objectives of the aforementioned MDE theme park.
4. Patuxent Reservoir Impacts - The WSSC has recently seen ovidence of significantly accelerated losses in reservoir storage capacity which is directly attributable to sediment losses from urban construction and agricultural activities. To help address and arrest this problem, the MD SHA should be requested to work closely with the WSSC to provide extra levels of sediment and stormwater control, including increased frequencies of inspection, for road widening work which approaches and crosses the Rocky Gorge Water Supply Reservoir.
5. Tree Preservation - Altematives $C$ and $D$ would impact nearly 80 acres of hardwood forest. It appears (from Tables IV-13, IV-14) that up to about 70 acres of hardwoods would be removed from Anacostia watershed drainage. Most of this acreage is located in the extreme headwater tributaries of Little Paint Branch (probably along the planned Route 29 interchange with the ICC). Up to another 10 acres would be removed from the Patuxent watershed in an area about $3 / 4 \mathrm{mf}$ le from the shoreline of the Rocky Gorge reservoir.

The EIS is silent as to what, if any, tree preservation measures are planned within the affected acreages. It also does not indicate what mitigation plans will be implemented to replace unavoldable tree losses with equivalent species. The EIS should be augmented to discuss planned tree - preservation measures within the affected areas and to identify mitigation measures which will be implemented to offset unavoidable tree losses.

## RESPONSE TO MONTGOMERY COUNTY MEMORANDUM DATED DECEMBER 20. 1988

1. Comment noted. Text added to Section IV.C.1.
2. Comment noted. MD SHA will meet all regulatory requirements for stormwater management, sediment control and wetlands protection.
3. The replacement ratios and specific design components for wetlands permanently impacted by construction will be negotiated by MD SHA and MD DNR/U.S. COE. At a minimum, the emergent, scrub-shrub, and forested wetlands will be mitigated at ratios of $1: 1,2: 1$, and $2: 1$, respectively. Higher ratios will be applied if the mitigation is conducted via restoration or enhancement of existing wetlands.
4. Stormwater runoff would be managed under MD DNR's Stormwater Management Regulations and would be in compliance with COMAR 26.09.02 Stormwater Management Practices under these regulations including:

- on-site infiltration,
- flow attenuation by open vegetated swales and natural depressions,
- stormwater retention structures, and
- stormwater detention structures.

These measures could reduce pollutant loads and control runoff.
5. Although the potential exists for temporary sediment loading of surface waters, proper erosion control measures can mitigate this impact successfully. Final design for the proposed improvements would include "Standard Erosion and Sediment Control Procedures" as specified by the MD SHA, as well as the MD DNR - Water Resources Administration's (WRA) standards and specifications. Full and rigorous implementation and enforcement of erosion and sediment control measures would be conducted. All final design plans would require review and approval by the WRA and the Department of Health and Mental Hygiene - Office of Environmental Programs (OEP).
6. The hardwood forest vegetation cover type must be replaced at $1: 1$ ratio. MD SHA is committed to reforestation of approximately 56.3 acres in accordance with Natural Resources Article, Section 5-103 and COMAR 08.19. The forest stand delineation and forest conservation plan will be prepared by MD SHA after completion of final highway design and will be reviewed and approved by MD DNR - Forest, Park, and Wildlife Service. Deforestation will be minimized during final design, but some loss of forested acreage will be unavoidable.


Ocrober 10. 1989

Mr. Neil J. Pedersen
State Highway Administrection
State Highway Adainist
707 N. Calvert Street
Beltimore, Maryland 21202

Dear Neil:

Actached is a copy of electer itreceived from Mr. C. Perrick Zilliecus of Silver Spring, Maryland.

It would be very auch epprecieced if you or soneone in your departaent could review the contencs of chis lecter end respond to te so thet I may enswer Mr. Zilliecus's concerns. Thank you for your help.
Sincerely.
fing

## RECEIVED

OCI : 21969
ClaEma. Gilit t:

C. Patrick Zilliacus

Silver Spring, Maryland 20904-6716


Hon. Edward Kasemeyor Maryland State Senator
 Maryland State Senato
West Friendship: Maryland 21794
Subjectz U.S. Route 29 lmprovements - Montgomery County
Dear Sen. Kasemeyer
Ienjoyed speaking with you at the Maryland State Highway Administration (SHA) presentation by Neil Pedersen last week concerning U.S. 29, and thank you for taking the time to be there.

On 31 December 19891 sent a letter to Randy Aldrich of SHA concerning two construction alternatives for U.S. 29 in the area of Briggs Chaney Road and the proposed Inter-County Connector (lCC), wich would have required the taking of over 35 homes in my community, Avonshire. They were:

- Alternative $C$, Concept 2 ; and

O Alternative $C$, Concept 2 i and
0 , Concept 3 , Option 2.
l have heard from various sources that these alternatives have been oropped from consideration, but l have not gotten a definite letter on the subject from SHA, and because the presentation ran so late, Mr. Pedersen did not really address the matter last weak. SHA has presented several other alternatives which get the job done here without the taking of any homes in Avonshire.

1 would appreciate lt lf you would ask the SHA staff what the statur of these two alternatives ara.

A faw other concernss
o SHA has not, to my knowledge, discussed the U.S. 29 bridge over the Northwest Branch at Burnt Mills. Twice during the 1970's, this bridge was damaged enough by flooding to require at least the partial closing of U.S. 29 between Maryland Route 193 at Four Corners and Md. 6So at White oak. Were thls to happen today, the traffic problems would be oven more of a disaster than they wer
then. Does SHA have any plans to improve thls bridge to make it then. Does SHA have any plans to improve thls bridge to make it less vulnerable to flooding? lt would be a shame to spend a large separation (a project that l strongly favor) and then have the whole thing rendered useless by the failure of this 'little' orldge.

- The reversible (contra-flow?) bus lane that Mr. Pedersen described makes a lot of sense. But 1 hope that SHA will consider what would happen if a bus were to break down or otherwlse be disabled, blocking the lane. Will there be escape natches a oreaks ln the median for this lane, so that a bus using this lane can get back to the main roadway, at least in an-emergency?

26 September 1989
Finally, please extend my thanks to Messers. Aldrich and Pedersen for the informative presentation. I hope that they will be able to press ahead with carrections to the U.S. 29 problem, in spite of the highiy vocal groups that are opposed to thls project.

If needed, feel free to call me at the number above, or at my offlee on 202/223-6800, extension 296.

## Maryland Department of Transportation <br> State Highway Administration

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|  |  |

## October 26, 1989

Sincerely,

C. Patrick zililiacus

The Honorable Edward J. Kasemeyer
Maryland State Senate
12400 Clarksville Pike
Clarksville, Maryland 21029
Dear Senator Kasemeyer:
Thank you for your October 10th letter requesting information to respond to your constituent, Mr. C. Patrick Zilliacus. The following information should assist you in respondling to Mr. Zilliacus' concerns.

Mr. Zilllacus' first question was about the interchange alternatives on US 29 , In the area of Briggs Chaney Road and the Intercounty Connector. He stated that he heard Alternative C. Concept 2 and Alternative D. Concept 3, Option 2 had been dropped from further conslderation. These two alternatives requirrd the acquisition of residential property. Although they contlnue to be carried through the study process, they have been labeled as not preferred. We have named a preferred alternative for the Briggs Chanay Road interchange, a tight dlamond configuration concept. This can be seen in Alternative C, Concept 3 as an example (see attachment). As for the Intercounty Connector, we are still investigating several alternatives. No decision has been made regarding this interchange.

The second concern was about possible flooding of the bridge over the Northwest Branch at Burnt Mills. Since our planning study does not call for any roadway widening, we do not plan any reconstruction for additional lanes on the bridge. Similarty, we do not plan to improve the bridge from a hydraufic or flooding standpoint. It should ba mentioned that this structure was inspected by our Office of Bridge Development in November 1987, and was listed as having no structural deficiencies. The bridge is due for another inspection later this year.

The final concern was with the proposed contra-lhow busway. Mr. Zllliacus was concerned about the possibility of bus breakdowns and how they might affect the traficic flow in the bus lane. This is an excellent point and we will be sure to focus on it. We are expecting to continue to have frequent median breaks which will efford the opportunity for buses to leave the contra-flow lane If another bus breaks down. We will spectically review the entire plan in light of this concern.

My telaphone number la 1301
Townypawriter for Impaliced Mearing or Specech

- 383-755s 8ulimore molro -585-0451 D.C. Mmiro 1-900-482-5092 stmewlde Tall Free

The Honorable Edward J. Kasemeyer Page Two

I hope this information will be helpful. If you have any further questions, please feel free to contact me or Nill Pedersen, Director of the Office of Planning and Prellminary Engineering. Mr. Pedersen's telephone number is (301) 333-1110.

Sincerely.
Werral signfo or:
PR! ! ! :
Hal Kassoff
Administrator
HK:h

## Attachment

cc: Mr. Neil J. Pedersen
Mr. Louis H. Ege, Jr.
Prepared by: Gẹorge Walton, Prol. Plan. Div., Ext. 1139, \#879

Neal Potter
November 14, 1989
Page 2

TO: Neal Potter, Chair
pensportation and Enviroment Comalttee

FROM:
Robert S. McGrry, Director) Department of Transportation

SUBJECT: Expediting Buses on U.S. 29
Reference your memorandum dated October 20, 1989, to Mr. Kassoff and ze, subject is above.

Since the responsibility for planning for U.S. 29 rests with the Administrator, SHA, I will not coment fully on the memorandum. I assume that Mr. Kassoff will respond more fully.

I do believe that it is appropriate to point out several inaccuracies in Mr. Bain's memorandum.
. The SHA-proposed contraflow lane is only proposed in the short section of U. 29 in the vicinity of Silver Spring. They have not proposed contraflow lane for the entire length of U.S. 29, so proposed contraw approaching at combined speed of 120 miles an vehicles would not be approaching to the citizens' desire that the hour. This proposa between the Beltway and Siligo Creek not be removed. Since the traffic conditions projected would require redditional capacity, the State has proposed a contraflow lane to handle this, but oniy in this section of road.
b. The memorandum assumes that there will be access ramps to U.S. 29 north of the beltway. At the present time, the Master Plan does not north of the Beltway. at and the ICC and MD 198. Because the Maste plan did not provide for grade separation and access ramps, the necessary right-of-way for such ramps has not been reserved. The SHA necessary right-of-way study has developed some options for some very linited ramps at other intersections beyond the ICC, but these would be far from the
intersections beyonat would be found on the interstate. From what I traditional ramp that would the vehicles that were queued would be unders to of roads such as Randolph and 8riggs Chaney since forced to queue ould be virtually no ramp space.
c. The concept of an HOY lane in the median has not been deleted by the SHA. The review of the project indicates that a single lane HOV in the median in lieu of a two-lane is more appropriate. To tiv knowledge, the concept would be carried forward and adopted as the concept for eventual construction on U.S. 29. The SHA has advised that funds are not availabie at the present for this construction, but that is the case on almost all SHA studies underway at the present time. It is certainly my recommendation that the County continue to support the hov lane in the median and do everything possible to eventually obtain state funding for its construction.

## RSHCG:Jeg:37512

cc: Hal Kassoff, Administrator, SHA
Nell Pedersen, Director, Office of Planning and Preliminary Engineering, SHA
John Clark, Director, Office of Planning and Project Dev., MC DOT

MONTGOMERY COUNTY COUNCIL
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HEMORANDUK

## ni kameoff, Admbaietrator

 Margland Scate Eighway AdainiatrationGue Bauman, Chalrman
Montgonery County Planning Doard
Robert S. McGariy, Director
Kontgonery County Departaent of Iransportacion
Proa:

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Neal potter, Chair 
Hontgomery Coumty Council
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SURJBCT: Arrangeante for Expediting Bucea on D.S. 29

A now iasua hae bean introducad into the plan-int for U.S. 29 by the Council'e delecion of tbe proposed High Occupancy Vehicia lanae from the Capital Improvemente Prograis and the State' e introductice of a pcopocel for a contrafiow bue lane in place of tha HOV lance that had been an inportant part of the planilus for two reare.

He now muat conelder, in the ehort tiee before a final decision, what is really the beat way to empedite the movenent of buece on what rill be, in any case, a very crowded highoray metwork.

Couscti atatt maber Raary kala bee prapared a meomsdu etating the problem and propoaing a third approsch to speeding the breens ramp meterias with bus prinitica. Thit method could aleo laprove the flow of the general traftic etream.

Bain'a nemorandum-is encloced. I would apprectate gour giving it e caraful exiatartion and adviting the council on ite merita and on any waye io mich the proposel misht be improved for coanideration alde by ilde with the WOV and contraklow concepta.

## deal Pottar. Chair

Tranaportation and Enfiromant Comittea
FROH: Henry Bain, Senior Lesialative Analyet
SUBJBCT: Arrangenente for Expediting Bucea on U.3. 29

As we raach a final deciaion on the daaign of inprovemente for U.S. 29. apecial attention ahould be givan to the proviaion of a high-quality arprese bus aervice along thie iaportant corridor of travel, in racogaition of the fact that thia I-95 corridor daserven the asac quality of tranait te the I-270 cneridor.

## The Original Thinking

We need to recapture the thinking that went into the orisinal planaing of the Hetrorail ayatem and the companion effort that produced the Year 2000 Plan tor the Wachington aral with its focus on ney cities in a corridor pattern. Onc ouw cicy, cloenty approdeatins kie ideal held out by the ragiomal plannera of 1961, is already wall advanced on U.S. 29 at Columbla.

The Matro and Year 2000 planning aimod for a networt of high-quality trancit eervice alogs ail principal corridora. linking the new citiea with each other and downtown Hahingtor. While mat of the routee penetrating downtowa would have to be placed underground, and would therafora bave to be electrically powerad rail traneft, it was realized that other routas, and the nutar alleaga of ell, would battar conalet of buace ruaning on the highraye. Thia would not ouly be chaapar, but would enable the tranait aysean to carry peopla cloeer to thair daetinatione than a rail line can do.

The rasult mould be a regiconl netvork of frequent, apeedy, confortable tranait carvice, rendered in cone casae by traine ou ralle and in other cese by buece on highmaye. Both kinde of eurvice would obtain thair euburban ridare froe large park-and-rida lote and faeder bueae; the exprans buese could alen circulate through a fow raideatial arese at the ende of their routes.

## Subsequent Pallurie

Dofortunately, tranait eervice in the I-95 corridor bee until recently been declinias, rather than growlag in keeping with the rapid developeent of
 eervice on U.S. Loute 29 , alons wh abendonment of the Silver Spring atation
and a shift to a local operator (Eyre); and tha collapee of the citizanoperated, unaubidized Coluabia Connutar Bue Corporetion, which at one time oparated thirtaen deily ruah-hour busas each way (1ta dealea was eppareatly partly due to comperition from Montgoaery County's free bus service from Briggo Chanay to Silver Sprials, and the County's visorod promotion of ridasharias anons Sllvar Sprias workera). Looking aboed, we face the poselbility of further dacilnas 18 the park-and-rida lote at hD Route 216 and Owen Brown load are loat at a reault of the Iaprovesent of V.S. 29 to full freevay standerds.

Earlier, tha balc idae of traneit-oriented, cortidor-city developaent In Montgooery County's part of tha corridor vas largely abendoned when the current Eatern Montgomery County plan was adopted, remoling tha Corridor city that had been ahown batween D.S. 29 and I-95 in the previous plan and allowing developeent to procaed in a non-corridor-city form which, though it clained to be based on a concept of "tranait aerviceability." really falla to provide the kind of a developecent pattarn lo which a agaificant proportion of trips can be served by tranait.

## Recent Iaprovenenta

A few afforta hava recently been ade to raverse tha decline of tranait in thia vital Kachiagton-Laural-Coluabla-Beltieora corridor.

Montgonery County has inatituted sone expreas bua service on D.S. 29, han persuaded sose churchea to allow use of their (emoll) parking lots by cuaj.fera, hae used ite power of lend-uaa control to pereuade Giant food to donaca land for a park-and-rife lot at Burtonavilla, and has gade an attampt co devalop sone other park-and-ride lots wheraver a parcel can be found that nobody wante to develop at the moaent. But tnis approach hat found tha county tanding at the etarting gate while cora foresighted priveta davelopers race ahead with their development plansi sevaral proponad, well-located atin
abandooad when the County gave way to property ownera with diffarent ideas.

The Stata's Mase Tranait Adminiatration hat atartad some bua aervice frow Howard County to Silver Spring, and has already built the riderahip back to approxdeately what it wa: decede ago at the halght of the Colunbla Computer but Corporation a suceas (chough at a heavy cost in pabilc innds, since, operacion is the inherent viedon of the original Yaar 2000 Plan with ita enphesie on the inherent ried

## What Ia Heeded Now .

But theae recant afforte atill fall far ehort of the I-270 model, and lack any ovarall plan, deaipn, and prograin, of a art that cman the aupport of
 citizena aod the approval of policyn the corridor. Whila the hour ia late, long-tera developaent of tranit in thi corridor. with the kind of high-quality expreas transit service that bas bean in the (often ifpored) plane for the


Pirat, ve aeed to plen, buy, develop, and oparate park-and-ride lota that are atrategically located to intercept motorista befora they heva gone very far from hoae, and that ara large anough to aupport bue service that is fraquent at ail tises (oaturally more frequeat in ruab bours than at other timas). Thase lota should be provided with aany amenitlea to ease the traveler'a journey: helters, phonas, vendiog mehines, lighting, police patrol, atc.- Just the aort of eupportive anviroment one finda at a Katrorall patrol,

Second, bus fares must be iacressed so the aervice can be provided at whatevar level the population dealres, without runniag into constralots on tarpajere to flomec ever-inerealiag traneit aubaidiea.

Third, waya munt be found to axpedite the novenent of the busea on tha congeated highvay ajeren. The rest of this aamorandua showe hov to do this.

The underlying philosophy ia aiaple: There is pleaty of highvay capacity out there to carry everyone wherever he weate to 80 , eafely and speedily he to do is manage the traffic so that bua eervice la not iapeded by traffic congestion. Such a bua aervice will attract aome motoriste from their autos, naking the task easier. Tha reat of the motoriate vill be free to choose between fast-moving buses and euton in congested trafflc; if thay stay in their cars, their travel problems will no longer be auch a preasias concern of the County goveranent, afnce we will bave dona about all we can for thea.

Our past anagenent of highway traffic has bean deficient in that we have mot made any effort to lialt the traffic load on each highwey segaent to the capacity of that aegrent. is renult, peak-period overioads on key segrente of the bighway ayetem, thile rather amilin in relation to tha total volume of tejvei, lapose enornous tiae lossea on all travelars. Our aloustion ia like thet of a tall building that doea cothing to prevent the loading of ita elevatore in excese of the atrength of titeir cables, or a aovie theater that selle tickets on ariday night to averyone waiciag in lina, far in excesa of the numbar of eeate or the nuber allowed by tha Fire sarahall'a regulatione.

While a completa proposal for changing this stata of affaire is beyond the ecope of this memorandum, a firet atep toward a more ecalala eathod of highway operation ia hare proposed for V.S. 29.

## Maye To Expedite the Buana

Threa poseibla megthode of expediting busea in this corridor ara worth conaldaring. Unfortunately, only one of thase aethode really worke; it is the ona nethod that had not yet been publicly diecused.

The firat poseible approach was 10 the Councy's Capital Iaproveaenta Program for saveral yeara-menatructioo of two lanee for use by bueal and carpoole. On tha atrength of the County's alleged wilinguen to pay the coat of the lanes ( $\$ 38$ million) the Seate Highway Aduiniatration included them in ita planning for V.S. 29.
 In today's world, few people cer pool (the County's auto occupancy for work
 to shift to cerpools, even by a abatantial tine savinge. An hov lana that is wata of higbway apace and overall increase in person-houra of delay would certainif not be toleratad by the publie; allowing two-parion pools would facrease the ueage, but prianily by attracting hushand-yife taam, not by caualing many gore people to pool.

This interpratetion of HOVS ia apportad by tha study of U.S. 29': potential for HOV developnent, performad by the Metropolican Kaghington Council of Goveranenta, though the publishad atudy aever comea right out and points out the iaplications of its fiodinge.

In any case, the unwllingaese of aithar the County Council or the State Aighway Adeiniatration to put up tha milliona of dollara needed for hove may have eliainated thia possibility from coocideration.

Another approach, oow being advanced by the State Bighway Adainistration, la to reserve one lane for busea moving in the heavy diraction of peak-pariod traval, on tha opposite alde of the madian-a "contraflow" lane.

This approach raisea aevaral serious problens. Could auch highway be operatad ssfaly, with vehicles approeching each other; ouly a faw feat apart, at a cosblaed apeed of 120 allea per hour on a roedvay that ia uauslly one-way? for will tha buses, entaring the blghway at various fointa, be abla to get into the contreflow lane on the othar aide of tha mediant Will the syatan be a satiafectory long-tera solution, allowing asough cepacity for trafflc ooving in the lighter direction aa developaent of enplojeent centera continuea at Fort Meade, BuI, Columbla, Ronterra, and other outlying locatioos, ceusing tha voluse of outbound moraing and inbound aveaing traffic to increase?
ht. . . . . r the answar to these queations mey be, thera is a better way. The third app:oach, alraady being applled in ofstea with prosressive highway depertuencs like Califorala, Minoesota, and Georgia, it raip natering with is priorities. It bringa benefita to both tha notoriat and toe dus zidera.

## Ramp Metaring Uith Bua Prioritiea

Thia approach has been recognized in the literatura for tha peat 30 jears, and wea well deacribed by Harvard economiat John Rain in a fanous article entitled "How to Solve The Ireffic Problen at Practically No Coat, but highay ensineera in Maryland and Montgonery County have not ahown nuch intereat in it.

When this approach is applied to a freewey, the flow of traffic onto the highoay at eech intarchange is ilmitad to tha quentity that can be accomodated downtrean. Thia is echleved by the following arrengamente.

## A traffic aigaal la placed et eacb on-ramp

The signal turas green briafly every few acconds, to allow one vehicle at a tiae onto the freever at a rate slightly lesa than would occur without the signal

Thia produce: a quaue on the ranp during the peak period
Busee bypass the queue on a parallel lane


When the highvey syatem is overloaded and vehiclea muat suffer delay while evaiting their tum to pass through bottlenecks, they should do cheir valting offatrasm, whera tbay do not loterfere with tha hish-speed sovenent of tha bulk of the traffic
..... ... Busca, baving a nuch higher occupancy than any autoaobile, should be
$\therefore$ is min $:-$ allowad to bypass the waitios vehicles, both reducing total
s.s••: person-deley aod eocouraging people to get out of their cara and onto transit. (Vanpoola, while cerrylag auch amaller loads than busas, alght also be adaitted to tha bypase lanaa witbout raising problame of efflefency or enforcement.)

This concept can be appliad both on freewaya and, in a aodified form, on arterial highways, whera the netering takea place on the main highwey at aach agnal and the bypase lane is at tha right (also used by right-turning vahicles).

RA~
cherap metering with bus priorities is difficult to inatall aftar a bighnay ic info backing up onto local atreeta. While this difficulty is not neceasarily a fatal flaw (we will be seeing auch worse traffic conditions than a few backed-up queues, es the County's traffic continues to grow faster than highoay capacity), it should be avolded where posaible by dealgalifg the metering-and-prorities arrangement into the highway from the stert.

Maryland Department of Transportation PiCj
State Highway Administration 01 m :
Dec if 1024 min ' 89
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 Conclualion

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Sarve into the uadefinite futura, wherea tha contrafiow lane would oventually have to field to growing reverse-flow traffic.

This ayaten, in roabination with large, vall-located park-and-rida lota and routing of the buses into resideatial areas on the outermoet portiona of their tripa, would at lant give the l-9S corridor the kind of high-quality, high-apeed, Merrorall-like tranait eervice was pleaned 30 jeara ago but has never been delivered. Ita mala coaponanta would be:

Confortable, high-powared buase oparating on frequent achedules
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etrong backing by the slected policyakera.

日B: ajb
S289/45

The Honorable Neal Potter
Montgomery County Council
Stella Werner Council ofil
100 Maryland ivenue
Rockville, Maryland
Dear councilman potter: 人j́=\&
Thank you for your recent memorandum regarding Mr. Henry
Bain's paper about transit priority treatment on us 29 . Henry
We agree with many of Mr. Bain's points and are willing to further consider the possibility of ramp metering in the longterm as a means to regulate the amount of traffic entering US 29 would conclude that the implementation of practical reasons, we short-term in the US 29 corridor, or as a means to eling in the need for a contra-flow lane south of New Hampshire Avenue, is not
possible.

We agree with Mr. Bain's conclusion that we need to plan, buy, develop and operate parkconcrion that we need to plan, ly located in the corridor. We will continue to work cooperatively with both Montgomery and Howard counties in atteoperaachieve this goal. The key to increasing bus patronage in the to corridor will be to provide frequent, reliable service which has travel times competitive with private automobiles. Frequent has service can most effectively be provided from large park-and lots strategically located near major intersections and in the vicinity of intensely developed residential areas. In in the achieve competitive travel times, we will haveas. In order t for buses to bypass areas of severe congestion to provide a way

Regardless of what is ultimately decided at four corners, the most severe congestion will continue to occur south of New side street connections and limited no controls of access, frequent side street connections and limited ability to provide for capacity improvements. Given the lack of control of access south not be possible. Even an effective ramp metering of White Oak will north of New Hampshire Avenue wive ramp metering system in place north of New Hampshire Avenue will not reduce vehicular demand south of New Hampshire Avenue enough to eliminate severe congestion problems in this section of roadway. Therefore, we believe to be pursued, even if ramp New Hampshire Avenue should continue to be pursued, even if ramp metering is ultimately implemented to

My telepnone number is 1301 ) $\qquad$ Tolempowilier tor impelied Heering or Spaech
on 7 North Calvert St.. Baillmora Mervland 212032 Stmowlde Toll Free

## The Honorable Neal Potter

Page Two

Our traffic engineers have been studying the operations of a contra-flow lane in some detail together with county traffic engineers, and they believe that a contra-flow bus lane can operated in a safe manner. Given that the greatest potential for travel time savings for buses relative to private automobiles will be in the section south of New Hampshire Avenue. He believe we should continue our attempts to find a way to provide a bus lane south of White oak if we are to achieve our objective of getting as many people in the corridor to use transit as pos-

To the north of New Hampshire Avenue, the greatest potential at-grade intersections have been converted to interchanges.
Otherwise, limiting the number of vehicles allowed to turn from intersecting streets onto US 29 will have the effect of backingup significantly for east-west traffic attempting to ing congestion significantly for east-west traffic attempting to cross US 29 He have already implemented a bypass lane for buses on the mainline of US 29 by converting the shoulder to a bus lane during peak hours. However, once the at-grade intersections start to be replaced with interchanges, the benefits of using shoulders as ypass lanes become more limitad and the implementation of ramp

I am asking the project planning team to study the interchange concepts to determine what would have to be done to the long-term op ion of being able to incorporate ramp metering in il of interchanges. We will comsections north of White Oak with provide a separate high ompare this option with one which would provide a separate high occupancy vehicle lane in the median.

Thank you for providing us with Mr. Bain's thoughtful analysis. He will continue to keep the council informed as we grapple with the very difficult issues associated with trying to further questions or comments the US 29 corridor. If you have any further questions or comments about this matter, please feel free 333-1110. me or Neil Pedersen. Neil can be reached at (301)

> Sincerely, ORIGINAL SIGNED BY HA: SOFF Hal Kassoff Administrator

HK/ih
cc: Mr. Robert McGarry
Mr. Gus Bauman
Mr. Neil J. Pedersen
Mr. Thomas Hicks
bcc: Mr. Louis H. Ege, Jr.
Mr. Perry Berman
Mr. Ron Welke
Prepared by: George Walton, Proj. Plan. Div., Ext. 1139, 931

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courr wnomitwip
-

DANA LEE DEMBROW
January 11, 1994

Mr. Neil Pederson
Director
Office of Planning and Prelminiary Engingeering
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21202
Re: Four Corners Intersection
Montgomery County
University Boulevard and Colesville Road
Dear Neil:
This correspondence is directed to you on behalf of the Silver Spring Stage, Inc., located in the basement of the wood Maryland 20901. As you may know from discussions with George Walton, it was recently learned by the State Highway Administration that the underground space used by Silver Spring stage for its theatre and technical equipment is an incursion below the existing sidewalk and potential road surface of Route 29 adjacent to the Woodmoor Shopping Center.

The undersigned has met with Mr. Walton on site and dis cussed with about a dozen members of the Stage's Board of Direc tors the feasability of shifting the proposed reconstruction of Route 29 slightly to the west sufficient to accommodate that underground needs of the theatre, which is a 25-year-old cultural institution in the four corners community, We have also encouraged pertinent parties to extend liberal easement rights to the State Highway Administration in order to permit your good offices to complete engineering and design work in a

We belleve that Mr. Walton has a firm grasp of the problem as well as the preferred design modifications needed to narrow the median silghtly and shift the road surface a few feet to the west in order to avoid the necessity of costly excavation into the basement area of the Woodmoor Shopping Center now used by silver Spring stage, Inc. This correspondence is to express our support for such design modifications and to encourage you
to continue to work with representatives of Silver Spring Stage to insure that the final building plans for Route 29 meet with their approval. As you probably know, you may contact the theatre directly at 946-3808. Interested parties include Carol Leahy, Norman Seltzer, Paul Boudreaux and others.

Thank you again for your arduous and sensitive work and negotiations on this difficult project. Please feel free to le this office know if we may be of further assistance in finalizing your design plans.


Dana Lee Dembrow
cc: Silver Spring Stage, Inc.

Maryland Department of Transportation State Highway Administration

O James Lighthizer
Secietary
Hal Kassolf

February 2, 1994

The Honorable Dana Lee Dembrow
Maryland House of Delegates
226B Lowe House Office Building
6 Governor Bladen Boulevard
Annapolis MD 21401-1991
Dear Delegate Dembrow:
Thank you for your recent letter conceming the proposed improvements at the Four Corners Intersection and tis potential impact on the Sllver Spring Stage. The State Highway Administration (SHA) is currently Investigating alternatives that would ellow the theater to remain in operation. Specifically, we are looking closely at options that are a compromise to all parties. By that I mean options that have impacts to both sldes of US 29, as well as the median. We do not have all the data necessary to make a determination on an alternative at this time. However, we fully expect to make a decision shortly. This is critical so that we may remain on the current production schedule of a FY 1996 edvertisement date.

Thank you and the members of the Silver Spring Stage for working with SHA in resolving this very sensitive issue. H you have any additional questions or comments, please feel free to contact me or Neil Pedersen. Neil can be reached at (410) 333-1110.

cc: Mr. Neil J. Pedersen

The Honorable Dana Lee Dembrow February 2, 1994
Page Two
bcc: Mr. Louis H. Ege, Jr.
Mr. Creston J. Mills, Jr.
Mr. George W. Walton
Prepared by: G. Walton, PPD, x3439, \#451

Silver Spring Stage
1014S Colesville Road, Silver Sprng. 86 'ilaryland 20901
Phone (301) 593-6016
Mr. Neil Pederson, Director
Office of Planning \& Preliminary Engineering $\because \because \because$....
State Highway Administration
707N. Calvert St
Baltimore, MD 21202
February 4, 1994

## Dear Mr. Pederson:

As Chairperson, Board of Directors of Silver Spring Stage, Inc., I am writing to comment on SHA's preliminary plan for the intersection of Route 29 and University Boulevard. These plans, as presendy conceived, would place Silver Spring Stage's continued existence in jeopardy.

As background, Silver Spring Stage, a non-profit community theater located at 10145 Colesville Rd., has been housed in the basement of the Woodmoor Shopping Mall for over twenty years. The Stage normally produces seven plays per year with 14 to 17 performances per production so that the Stage is functioning throughout the year. Ticket prices are nominal with discounts for students and senior citizens, and those who cannot afford admissions may receive free admission by contributing some service at the stage. . One performance of each play is reserved for residents of retirement communities, nursing homes, and participants at community senior centers. They are admitted free and the 120 seat theater is always filled to capacity.

Silver Spring Stage relies entirely on volunteers and because of its oulstanding reputation attracts performers, set and light designers, stage managers; technicians, producers, and directors from the greater metropolitan area. Volunteers include men, women and children, persons from white- and blue-collar xccupations and retirees, and from those with graduate degrees to those who are developmentally disabled. Jur associates $\bar{p}$ rovide technical assistance to high school and other community theaters without charge; and ve conduct classes, workshops and practical clinics on various aspects of theater. .: :ar 'an-

As you can see, Silver Spring Seage is a community asset that, in turn, tries to give something valuable and meaningful to the community. Unfortunately, our value cannot be measured in dollars alone--Silver Spring Stage relies almost entirely on ticket sales for funding and the annual budget is only about $\$ 70,000$. However, we make a concerted effort to keep that money in the community by purchasing all materials and supplies from local merchants.

Finally, Silver Spring Stage is a six-time winner of the British Embassy's prestigious Ruby Griffith award for best community theater productions, and holder of four Theater: Lobby lAwards, an honor rarely bestowed on community theaters. Based on all of the foregoing, I think.you willagree that our theater plays a vital role in the Silver Spring community.

Home . $0: \div-5$. 4112
As you know, Mr. George Walton of your office and Delegate Dana Dembrow of the House of Delegates met last month with the Stage's Board of Directors.. This meeting resulted from our learning only recendy that the underground space used by the Stage for its theater and technical equipment is an incursion below the existing sidewalk and potential road surface of Route 29 adjacent to the Woodmoor Shopping Center. Mr. Walton indicated that the failure to consider Silver Spring Stage was an oversight which arose because the Stage is not in clear view from the front of the shopping center. However, Mr. Walton also indicated that there is still time to correct the oversight, and harm to the stage can be avoided without compromising the highway project, without incurring added costs, and with litue serious impact on the community's businesses and residents. As we understañ̀ SHA's proposed plañ to widen Rouie 29 and widen and ländscape the median,
we understand SHA's proposed plan to
$\therefore$ : iง. 1
utilities would have to be relocated. This would require that the northwest comer of Woodmoor Shopping Center's basement either be filled in or the basement wall demolished and reconstructed to make it suitable for the added weight required. This basement area contains the Stage's lobby area, some rehearsal space, and the technical booth which includes the sound and lighting equipment and is the most expensive, most complex, and most essential component of the theater. The Stage cannot afford the cost of relocating the technical booth, shutting down for at least a year during reconstruction of the new basement wall, or comparable space elsewhere.

We sincerely believe that the destruction of the Stage's facilities can be prevented without compromising the roadway project. In essence, SHA needs about ten feet more in width to build the new traffic lanes and median. Therefore, we propose that three feet be taken from the land lying to the east side of Colesville Rd. three feet from the land on the west side, and the planned median narrowed from ten to six feet (the existing median is t:ro feet wide)

Mr. Walton discussed our proposal and, based on preliminary information, estimates that our proposal would support SHA's planned traffic patterns, would permit the relocation of utilities, and would guaraniee pedestrians' safety. Furthermore, this proposal would not pose any serious harm for businesses on either side of Colesvilte Rd. and, since it would not affect gas stations in the area, it would not pose environmental dangers.

The only needed compromise contained in our proposal concems landscaping: Because the median would be narrowed from ten to six feet, shrubs and/or perennials could be substituted for an estimated five trees that are planned for the median. This seems to be a small sacrifice, considering the role Silver Spring Stage plays in the community.

As stated previously, the Stage cannot afford to move (a comparable space cannot be found), and cannot afford the cost of relocating our technical facilities and closing down for at least a year. Therefore, we urge that you use your office's expertise to design an alternative proposal that will not destroy a valuable community asset.

Thank you for your time and consideration. We appreciate that the planning and negotiations involyed in this project have been difficult and sensitive. We look forward to heäring from you in the néarfütureand would be glad to discuss our concems with you or your staff at any time.


Chair, Board of Directors
Chair, Board of Direct
Work (202) 653-8989
Work (202) 653-8989
Home (301) 762-4112
cc:
Honorable Constance Morella, U.S. House of Representatives Honorable Ida Ruben, Maryland State Senate
Honorable Dana Lee Dembrow, Maryland House of Delegates
Honorable Peter Franchot, Maryland House of Delegates Honorable Sheila Hixson, Maryland House of Delegates Honorable Neil Potter, Montgomery County Executive
Honorable Derick Berlage, Montgomery County Council
Ms. Sally Stembach, President, Greater Silver Spring Chamber of Commerce
Mr. George Walton, State Highway Administration

Maryland Department of Transportation
$\because: .$.

March 2. 1994
Mr. Norman Seltzer
Chair, Board of Directors
Silver Spring Stage
P.O. Box 3086

Silver Spring MD 20901

## Dear Mr. Seltzer:

Thank you for your recent letter regarding the proposed improvements to the Four Corners Intersection and their potential impact to the stage facility. The State Highway Administration (SHA) appreciates your comments and assistance in resolving such difficult issues.

Though the SHA has not made a determination on the improvement for the section of Colesville Road in front of the Silver Spring Stage, we are pursuing the compromise option as indicated in your letter. We agree that the impacts should be distributed between the east side, west side and the median to the extent possible. Further, SHA representatives have discussed this issue with members of the local community groups and they also agree with a compromise of the impacts. We anticipate to have a decision on an atternative later in March.

If you have any additional questions or comments, please feel free to contact me or the project manager, George Walton. ' George can be reached in Battimore at (410) 333-3439 or toll free, in Maryland only, at 1:800-548-5026.

onib of Peduan
 Office of Planning and
Preliminary Engineering
cc: Mr. Louis H. Ege, Jr.
Mr. Creston Mills
Mr. George Walton

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\begin{aligned}
& \text { My tolephone number la (410) 333-1110 } \\
& \text { Teletypewriter for Impalred Hearing or Speech } \\
& 383.7555 \text { Ealtimore Melrio } 585.0451 \text { D.C. Metro - 1.800.492.5062 Statewide Toll Free } \\
& 707 \text { North Calvert St., Baltimore, Maryland } 21203-0717
\end{aligned}
$$

## Maryland Department of Transportation

 State Highway AdministrationApril 13, 1994

The Honorable William E. Hanna, Jr.
President
Montgomery County Council
100 Maryland Avenue
Rockuille MO 20850
Dear Councilmember Hanna:
I would like to share with you the State Highway Administration's position on proposed Improvements at the US 29 and Sligo Creek Parkway intersection.

Uncertainties, about redevelopment proposals in the Silver Spring Central Business District and about the possible relocation of Blair High School to the Sligo Creek Golf Course, have persuaded us to delay, indefinitely, any decision on improvements to this intersection. We do intend to proceed with the US 29 Environmental Impact Statement, but only to recommend improvements along US 29 north of the Capital Beltway

We look forward to working with you to develop alternatives to improve the efficiency of US 29 between the Capital Beltway and downtown Silver Spring, including the US 29/Sligo Creek Parkway intersection.

If you have any questions, please feel free to contact me or Neil Pedersen, Director of our Office of Planning and Preliminary Engineering. Neil can be reached at (410) 333-1 110.

Sincerely.
Hal Kassoff
Administrator
cc: The Honorable Bruce T. Adams
The Honorable Derick P. Berlage
The Honorable Nancy Dacek
The Honorable Gail Ewing
The Honorable Gail Ewing
The Honorable Isiah Leggett
Mr. Neil J. Pedersen
The Honorable Marilyn J. Praisner
The Honorable Michael L. Subin
My telephone number is ________
Maryland Relay Service lor Impaired Hearing or Speech 1.800-735-2258 Slalewide Toll Fres

Malling Address: P.O. Box 717 - Ballmore, MD 21203-0717
SIreet Address: 707 North Calvert Streat- Qallimore, Maryland 21202
O. James Lighthizer

Secreary
Hal Kassolf

The Honorable William E. Hanna, Ir
April 13. 1994
Page Two
bcc: Mr. Louis H. Ege, Jr. Mr. Creston Mills Mr-George Walton
O. James Lighihizer

Secrelary
Hal Kassolf
Administrator

April 13, 1994

The Honorable Constance A. Morella
House of Representatives
United States Congress
Suite 507
51 Monroe Streel
Rockville MD 20850
Dear Congresswoman Morella:
Thank you for your recent letters transmitting correspondence from Ms. Anne Esposito and from Mr. Norman Seltzer, Chairman of the Board of Directors for the Silver Spring Stage. We have received similar letters, and agree that the Stage serves a number of important community needs and should be saved.

The State Highway Administration (SHA) has met with representalives from the Silver Spring Stage to discuss this Issue. At that Ilme, we were investigating several options that would spare the slage, as is shown in Neil Pedersen's letter to Mr. Seltzer (copy enclosed). Since then, SHA has decided to shift the roadway several teet to the west and to reduce the proposed median width from approximately. 12 feet to six feet. This modification will eliminate all impact to the Stage.

We are always pleased to resolve potential conflicts so that the community benefits, and are glad we could do so in this case. Hi you have any additional questions, please feel free to contact me or Neil Pedersen, Dlrectorof our Office of Planning and .... .. Preliminary Englneering. Neil can be reached at (410) 333-1110.

## Sincerely. <br> Hal Kassoff Adminlstrator

## Enclosure

cc: Mr. Neil J. Pedersen

The Honorable Constance A. Morella
April 13, 1994
Page Two

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bcc: Mr. Louis H. Ege, Jr.
    Mr. Creston Mills
    Mr. George W. Walton
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Mr. Creston Mills
Mr. George W. Walton

$\qquad$

The Old Past Office Building 1100 Pennsylvania Avenue. NW. \#809 Washington, DC 20004

DEC 9 903

Mr. A. P. Barrows


Division Administration
Federal Highway Administration
The Rotunda, Suite 220
711 West 40th Street
Baltimore, MD 21211-2187
REF: Proposed Roadway Improvements to U.S. 29 Montgomery County, Maryland

Dear Mr. Barrows:
On November 23, 1993, the Council received your determination, supported by the Maryland State Historic Preservation officer (SHPO), that the referenced undertaking will have no adverse effect upon properties listed on and eligible for listing on the National Register of Historic Places. pursuant to Section 800.5(d) (2) of the Council's regulations, "Protection of Historic Properties" (36 CFR. Part 800), we do not object to your determination. Therefore, you are not required to take any further steps to comply with Section 106 of the National $\operatorname{fistoric}$ Preservation Act other than to implement the undertaking as proposed and consistent with any conditions you have reached with the Maryland SHPO.
Thank you for your cooperation.

Subject: CENAB-OP-RX(MD SHA/U.S. RT 29, from Sligo Creek to Patuxent River)93-00484-4

Mr. Bruce Grey
Maryland State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21203-0717
vear Mr. Grey:
I am replying to your request for a jurisdictional determination for the subject project in Montgomery County which will be processed in accordance with the procedure for merging NEPA and Section 404.

In conjunction with the Corps of Engineers permit process, including Phase I of NEPA/404 process, the Corps has the following response.
a. The Corps concurs with the delineated wetlands 1-10 with the following exceptions. Wetland 4 may be omitted as a jurisdictional wetland due to its function as an urban runoff detention basin, its lack of natural hydrology, and the assumption based on NWI mapping that the basin was not built in a wetland. Wetland 5 may be omitted as a jurisdictional wetland but will still be regulated as Waters of the United States due to its outfall connection with a tributary to Little Paint Branch. Wetland 10 must be re-delineated to extend the wetland boundary approximately twenty feet to the Northeast, and a small pocket at the Eastern end which was re-flagged during the site visit on March 12, 1993 (see enclosure).
b. The Corps also requests that SHA investigate the feasibility of extending the existing retaining walls vertically to allow widening of U.S. 29 reducing the impacts to Wetland 3. Finally, we request that SHA investigate the utilization of the existing median for the widening of U.S. Route 29.

If you have any questions concernincy this matter, please call Mr. Arthur Coppola of this office at (410) 962-1843.
sincerely,
Keith A. Harris
Aering Chief, Special Projects
Permits Section

Enclosure

Copy Furnished:
MD DNR, Muhammed Ebrahimi
MD DNR, Sean Smith
USFWS, Bill Schultz
MDE, Andrew Der

## SHA RESPONSE TO DEPARTMENT OF THE ARMY LETTER DATED 3/30/93

This project will not be developed consistent with merged NEPA/404 process since the project began pre-NEPA/404 implementation. The Selected Alternative will impact less than one acre of wetland.

## Responses to Paragraph (a.)

Wetland \#10 boundary was shifted to the northeast by approximately 30-40 feet during the March 12, 1993 site visit that included Corps of Engineers, MD DNR, USFWS, MD SHA and Gannett Fleming, Inc. personnel.

## Response to Paragraph (b.)

Since the impact to Wetland \#3 will affect only 0.09 acres, extension of the retaining wall, vertically was not considered a viable, economic option.

Date: $\quad$ March 12, 1993
Attendees:

Purpose: $\quad$ The purpose of the wetland field view was to conduct a jurisdictional determination to verify wetland boundaries and classifications.

Prior to the field view, attendees were provided copies of the wetland delineation report, including mapping to be used for orientation and description of wetlands viewed. Criteria used to establish boundaries were explained. MDSHA discussed how current plans would impact each wetland. Comment packages were provided by Gannett Fleming, but attendees preferred to comment in their own field notebooks. Agencies requested to view all intermittent and perennial streams along the corridor.

The following summarizes the findings from the agency field view within the project area.

W-1 and W-2
Wetland boundaries accepted as delineated.

W-3
Wetland boundary accepted in all 3 portions of wetland.

W-4
Wetland 4 was determined to be a stormwater detention basin. Attendees agreed that it was not a jurisdictional wetland. Flagging was not removed during the field view.

W-5, W-6, and W-7<br>Wetland boundaries accepted as delineated.

Wetland boundary was pulled in 7 to 15 feet on the west side at the southern end of the wetland. This was due to a lack of soils with sufficiently low matrix chroma color and mottles. Existing flags were relocated to reflect new boundary. Numbering remained the same as in the Wetland Delineation Report.

W-9
Wetland boundary accepted as delineated.

W-10
Wetland boundary was shifted to the northeast approximately 30-40 feet. Upland soils found during the delineation were determined to be part of an upland inclusion (natural stream berm) within the wetland. Hydric soils were found adjacent to the berm. Existing flags were relocated to reflect the newly determined boundary. Flag numbering remains $1-11$ on this side of the wetland to agree with the Wetland Delineation Report.

A stormwater pond located across U.S. 29 from Wetland 2 was viewed and was determined not to be a jurisdictional wetland.

All stream sites within project limits (waters of the United States) were viewed which included:

- $\quad$ Sligo Creek - west of Sligo Creek Parkway
- Northwest Branch and adjacent unnamed tributary - approximately 1,400' south of Lockwood Drive/ 29 intersection
- Unnamed tributary to Northwest Branch - south of Prelude Drive
- Paint Branch - approximately 3,600' north of Hampshire Avenue
- Three unnamed tributaries to Little Paint Branch approximately 300', 1,600' and 2,400 ' north of Briggs Chaney Road (Northernmost tributary was Wetland \#4 in ELS).

The agencies verified that no jurisdictional wetlands exist adjacent to the streams.
Conclusion: All wetlands field viewed were agreed upon for jurisdictional boundary and classification. Although the boundaries of Wetlands $8 \& 10$ were adjusted, the mapping for the remaining sites presented in the Wetland Delineation Report remains a good approximation of the wetland boundaries.

Submitted by:


Roxanne Shield Environmental Scientist Gannett Fleming, Inc. March 17, 1993
RCS/jh
pc:
W. Willy
R. Pugh

File 25420.250


Maryland Department of Transportation State Highway Administration

January 12, 1993

Re: Contract No M 425-101-370
US 29 @ MD 193 (University Bour.) Four Corners Vicinity Montgomery County, Maryland

Mr. J. Rodney Little
State Historic Preservation Officer Maryland Historical Trust 100 Community Place
Crownsville, MD 21032-2023
Dear Mr. Little:

On June 29, 1988 we described the alternatives that were under consideration at that time for the US 29 project (from sligo Creek to the Patuxent River). A copy of that letter is attached. Since that time, we have developed new alternatives, of which only Alternatives C5 and C6 Modified would require additional right-of-way on the side of US 29 opposite the Polychrome Houses ( $M$ 32/2). None of the new alternatives that have been developed are significantly different in design or impact when compared to the previously developed alternatives.

The US 29 corridor is a vital part of the transportation network serving eastern Montgomery County and northern portions of Washington, DC. This corridor has undergone extensive development and in the next 20 years is expected to experience continued growth as the result of planned commercial, industrial and residential development. In the vicinity of the polychrome Houses, US 29 is a 6-lane divided highway.

Descriptions of the alternatives that have been developed since the Location/Design Public Hearing in this area are described below. Plans are attached for your information.

## Alternative C-4

Alternative C-4 (underpass option) proposes the relocation of all MD 193 traffic to the location of the existing eastbound roadway. This section of MD 193 would be widened from the existing three-lane facility to a six-lane divided roadway.

My telephone nu -h.
Teletypewr
VII-201 earing or Speech
-1-800-492-5062 Statewide Toll Free
707 North Calvert St.. Baltimore. Maryland 21203.0717

Mr. J. Rodney Little

The existing westbound roadway, on either side of US 29, would become a two-way, three-lane facility providing local access and circulation. US 29 would be depressed under the widened section of MD 193. The existing westbound lanes will be severed and would not provide any through movements. US 29 would narrow from a six-lane divided section to a five-lane undivided section with a center reversible lane as it approaches MD 193.

All of the turning movements between the two roadways would be handled at the signalized intersection located on the bridge. On MD 193, there would be six lanes (three lanes in each direction) of through traffic, with a single left turn lane for westbound and double left turn lanes for eastbound traffic, respectively.

Each of the existing jug-handles would be reconstructed to two-way roadways, further enhancing community circulation. The intersections formed between MD 193 and the jug-handles would be signalized.

As the roadway would not be widened or altered in the immediate vicinity of the Polychrome Houses, they would not be affected by Alternative C-4.

## Alternative C-4 At-Grade

Alternative C-4 At-Grade is basically the same alternative as C-4, only at-grade. As with Alternative C-4, MD 193 would be widened from the existing three-lane facility to a six-lane divided roadway. The existing westbound roadway, on either side of US 29, would become a two-way, three-lane facility providing local access and circulation and no through movements would be allowed. US 29 would narrow from a six-lane divided section to a five-lane undivided section with a center reversible lane as it approaches MD 193. Left turns from both roadways would not be permitted. Instead, vehicles would have to use the widened jug-handles in an atgrade loop situation.
As the roadway would not be widened or altered in the immediate vicinity of the Polychrome Houses, they would not be affected by Alternative C-4 At-Grade.

## Alternative C-5

Alternative C-5 (underpass option) proposes to depress MD 193 under US 29 at the location of the current eastbound roadway. US 29 will remain a six-lane facility with the median being retained and existing eastbound MD 193 will be widened to a five-lane roadway to handle the through movements. All traffic wishing to cross US 29 will be diverted onto this widened section. Community access and circulation will be handled via right-in, right-out movements at the existing westbound MD 193/US 29 intersection and upgrade ${ }^{\beth}$ …~handle
turn lanes. MD 193 will be signalized and the existing westbound roadway will be narrowed to handle two-way local traffic.

Even though the roadway would be widened by 22 feet in the vicinity of the Polychrome Houses, the widening is on the side of the road opposite the building; thus, they would not be affected by Alternative C-5.

## Alternative $C-6$ Modified

Alternative C-6 Modified, the at-grade improvement, calls for the addition of a travel lane in each direction along US 29 and the widening of MD 193 at the intersections to provide for exclusive turning lanes. US 29 will become an eight-lane facility with a continuous raised median with a median width varying between 9 and 16 feet. Also, on US 29, exclusive right turn lanes will be provided.

MD 193 will be widened at its intersections with US 29 to provide exclusive left and right turn lanes.

In order to provide greater intersection level-of-service, left turns from Colesville Road will be denied. Jug-handie lanes are being proposed to accommodate turning movements. Vehicles making a left turn movement from US 29 onto MD 193 will first have to make a right turn onto MD 193 then use the jug-handles to proceed in the desired direction. Alternative C-6 Modified also includes the addition of two traffic signals located at the existing intersections of the jug-handles and MD 193.

Alternative C-6 Modified is similar to one alternative previously proposed in the DEIS. It has the same characteristics as Alternative B-1 except that it retains the median. Left turn movements would be handled via jughandle turn lanes. By retaining the median, all the widening would occur to the outside.

Even though the roadway would be widened by 22 feet in the vicinity of the Polychrome Houses, the widening is on the side of the road opposite the building; thus, they would not be affected by Alternative C-6 Modified.

Relating to archeological resources, the US 29 corridor from I495 in Montgomery County to US 40 in Howard County, Maryland, was previously surveyed by Ballweber (1988). During that survey, the project area directly adjacent to the current study area was considered to have low archeological potential, and did not warrant testing. Your office concurred on August 28, 1989 that no additional archeological investigations were warranted for the project.

No archeological sites have been recorded in or near the current expanded project area. It is considered to have low prehistoric archeological potential by virtue of its interfluvial setting. Regional research has identified proximity to surface water as a primary consideration in the selection of areas for use by prehistoric populations. No structures appear on historic maps in the project area vicinity. Given the degree of previous disturbance from residential and commercial development, and road construction along the US 29 corridor and the US 29/I-495 interchange, it is unlikely that potentially significant historic or prehistoric archeological resources would be affected by proposed construction.

We seek your signature on the concurrence line below documenting your agreement with our determination that these additional alternatives will not affect significant cultural resources. Please return this signed correspondence by February 17, 1993 and, should you have any questions, please call Ms. Suffness on 333-1183 concerning historic sites or Ms. Bars on 321-2213 concerning archeology.

Very truly yours,
Louis H. Edge, Jr. Deputy Director Office of Planning and Preliminary Engineering
by:


## Concurrence:



## LHE:RMS:

Attachment (2)
cc: Ms. Chris Bars
Ms. Sharon Preller
Mr. George Walton

MARYLAND
HISTORICAL


TRUST

## Wisen Donald Shelter Governor

Jsocperine H. Ropers
Sectary, DHCD

August 28, 1989

Re: Phase I Survey
U.S. Route 29 from I-495 to U.S. Route 40 Contract No. HO 606-101-770
Howard and Montgomery Counties, Maryland

Dear Mr. Ese:
Thank you for sending us a copy of the final report of the archeological reconnaissance conducted for the above-referenced project.

The report presents a concise and well written documentation of the survey's goals, methodology, results and recommendations. The report's graphics are exceptionally clear and helpful. All comments suggested in our letter concerning the above-referenced project dated June 13, 1988 have been successfully addressed.

The survey identified five sites, 18MO271, 18MD272, 18MO273, 18 MO 274 and 1840142. Based upon the information provided in the report, we concur that Sites $18 \mathrm{M} 0271,18 \mathrm{MO} 272$, 18 MO 273 and $18 \mathrm{HO142}$ are not eligible for the National Register of Historic Places. The Newton Site (18M0274) was considered to be potentially eligible. However, Phase II investigations of this site have already been completed. This office has previously concurred in our letters dated September 7, 1988 and December 1, 1988 that Site 1890274 is not eligible for inclusion on the National Register of Historic Places.

No further archeological investigations are recommended for this particular project.


Mr. Louis H. Ege, Jr.
August 28, 1989
Page 2

We thank you for your cooperation and assistance.
Sincerely,
ERererita

Ethel R. Eaton, Ph.D. Assistant Administrator Archeological Services Office of Preservation Services

## EJC/1m

cc: Mr. Herman Rodrigo
Mr. Samuel Baker
Ms. Cynthia D. Simpson
Mr. Tyler Bastian
Dr. Ira Beckerman
Mrs. Phillip St. C. Thompson
Ms. Alice Ann Wetzel
Ms. Mary Ann Kephart
Ms. Mary Anne Tuohey
Mr. Jared B. Cooper

MN<br>THE<br><br>Mr. Neil J. Pedersen, Director<br>Office of Planning. \& Preliminary Engineering<br>State Highway Administration<br>707 N. Calvert Street<br>Baltimore, Maryland 21202

MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION 8787 Georgia Avenue e Silver Spring, Maryland 20910-3760


August 7, 1989

Re: US 29 Project Plans
Dear Mr. Pederben:
Over the last several weeks the portion of US 29 between Four Corners and the silver Spring CBD has come under close review by our staff as part of the work on the Silver Spring CBD traffic management program analysis, and the Eastern Montgomery County Master Plan, as well as the continuing efforts on your US 29 Project plan. We have reached some tentative staff conclusions on several critical elements of this roadway of which I would like to inform you before the team meeting on August 9. I would stress that these are preliminary, but they are in keeping with our earlier analyses. We have put this down in writing to facilitate communication; please recognize that it may be necessary to refine or even revise this as we learn more on the subject.

We asked JHK and Associates to assist us with analyzing this critical roadway section, since the traffic operations here are complex and there are currently conflicting and seemingly incomepatible results from different previous analysis. They used the TRANSIT 7 model, as well as manual calculations to provide us with different criteria. Both our transportation staff, and that of the Community Planning South Division have been involved with the review, and concur in our current position.

We would offer the following observations for your consideration.

1. The most recent Gannet Fleming configuration for the US 29 approaches at Sligo Creek Parkway are for only Leis : $\because \quad$ three through lanes and a counter-flow bus lane with the median retained. We do not believe that this is feasible from a capacity perspective, and probably not from a traffic safety viewpoint as well. All our presvious analyses show that at least four through lanes are needed here for future volumes, generally with a prohibition of left turns from uS 29.
2. We strongly desire to provida a high quality bus priority lane along the entire length of us 29 from the Howard County line, including the section south of the Beltway. We do not endorse retaining the medians below the Beltway, since it appears that future traffic volumes will require configurations involving reversible lanes that are not workable with the medians retained.
3. Concerning bus priority: if a busway is a part of each stage of the Four Corners modification, we tentativaly feel we can endorse the revised Four Corners underpass. The recent staging plan allowing for initial fughandies, then revised roadway and finally the underpass if needed seems appropriate and workable.
4. We have highlighted to your staff what we think is an inconsistency in the future evening peak hour northbound traffic projections between the COMSIS estimates and ours. This involves several hundred peak hour trips fewer in your estimates, and is probably a major factor in your consultants indings about the workability of the "median retention" scheme.

To provide you with some technical validation of these findings, I have attached the summary of the JHK analysis. This shows four schemes, some with bus priority, between the Beltway and the Silver Spring CBD evaluated against several criteria. The Base Case is the configuration of 4 or 5 through lanes on US 29 ( 5 north of Sligo Creek Parkway and 4 south of it). It does not include any bus priority. Options 1 and 2, respectively, are a "take-away" and "add-a-lane" for buses to the Base Case. The "GFTE" is our understanding of the recent Gannett Fleming configuration. The results show that only with 1,000 vehicies diverted to transit would the GFTE plan work without major delays to both buses and other vehicles on side streets and on us 29.

Please feel free to call me or Rick Hawthorne after you have reviewed this information. We will be attending the August 9 team meeting, but would welcome the opportunity to discuss these concerns with you before hand in perhaps a smaller group or by telephone.

## Sincerely,



Robert M. Winick, Chief Transportation Planning Division
RMW: RCH/b:njp.rmw
cc: Ron Welke
John Clark
Kevin Hooper

# SHA RESPONSE TO MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION LETTER DATED 8/7/89 

## Responses to Paragraph (1)

No action on Sligo Creek Parkway is being taken. The alternative has been dropped.

## Responses to Paragraph (2)

The buslanes will continue to provide high-quality service along the shoulders of U.S. 29. The medians below the Beltway will be retained as the Sligo Creek Parkway Alternative (below the Beltway) has been dropped from consideration.

## Responses to Paragraph (3)

The at-grade solution, Alternative C-6 Modified, was selected. As such, there will be no underpass at Four Corners.

## Responses to Paragraph (4)

Removal of the median strip has been dropped from consideration.


## Apr 04 94. 14:25 No.f.376P.04 MemorandUM

Us. Departiment
af hansporration
Fodpral Rlighway Adiminutitation


Subject:

From: Ta:

Maryiand - Eraft قIS U.S. 29 from sligo Creat co Howard Councy Line Moncgomery Councy, Marylans FHWA-MD-さIS-83-04~D

Oyfector, Office ot ヨianning anc Progran Developanent
Baltinore, Marydand

Porter Batrows
DLvision Administyator
Balcimore, Maryiand
We have reviewad your Marci 3 submisaion pr che perpetual easement at SIIgo שzeak Parkway. II che sonstyuction can be accomplishec cosally within the limirs of the perperuai easement, we acree no Section 4 (f) Evaluation is requixed and would concur with your datermdmation.

Robert E. Gatz

Maryland-Draft EIS
US 29 from sligo Greek to
Howard County Line
Montgomery County, Maryland
ㅍHMA-KD-8IS-88-04-D
Division Administrator
Baltimore, Maryland
Robert E. Gatz
Office of Planning and Program Development
Region 3
Baltimore, Maryland
Enclosed is a submission from sHA which shows that the proposed improvements at SlIgo Creek parkway, under the proposed 4-1-2 option, are totally contained within a perpetual easement which Was granted to SHA in 1959 (set attached mylar of Option 4-1-2). We are requesting your concurrence with our determination that Section (if) would not apply to thin improvement. This determination would be conditioned upon all proposed work, including earthwork (the limits of which are not shown on the mylar) being contained within the perpetual easement. We have discussed the limits of earthwork with sha and it is their belief that the earthwork will be contained within the perpetual easement, provided they shift the alignment of sligo Creek Parkway slightly further from sligo creek.

We would appreciate your returning the enclosures upon completion of your review.


Attachments

## SHA RESPONSE TO FEDERAL HIGHWAY ADMINSITRATION LETTER DATED 3/3/89

The alternative at Sligo Creek Parkway has been dropped from consideration.

PROJECT
850 Hungerford Drive * Rockville Marydandid * 20850

March 3, 1989

Mr. Neil J. Pedersen, Director
Office of Planning and
Preliminary Engineering
Maryland State Highway Administration
P. O. Box 717

Baltimore, Maryland 21203-0717
Dear Mr. Pedersen:
Thank you for your thoughtful response regarding school concerns about the proposed alternatives for improving US Route 29 in Montgomery County. I am especially heartened by your willingness to consider additional landscape screening adjacent to Paint Branch High School.

Mr. Michael Snyder, your district engineer in Greenbelt, has contacted staff to request a meeting to discuss ways to control pedestrian movement at Paint Branch High School. I look forward to hearing the results of these joint efforts. Again, thank you for your help.

> Sincerely,


HP : eq
Copy to:
Members of the Board of Education
Dr. Vance
Dr. Lewis
Dr. Bohr
Dr. Skinner
Mr. Snyder
Mr. Wilder
Mr. McGarry

RECEIVE
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PLANNIMG \& F...ıi...

## SHA RESPONSE TO MONTGOMERY COUNTY PUBLIC SCHOOLS LETTER, DATED

 3/3/89The alternative selected for the Briggs Chaney Road (near Paint Branch High School) was the tight diamond interchange as shown in Alternatives $\mathrm{C}-1, \mathrm{C}-3$, and $\mathrm{C}-5$ with modifications.

William Donald Schaefer Governor

February 15, 1989

Corey C. Brown, M.D. Secretary

Mr. Hal Kissoff
State Highway Administrator, SHA
707 North Calvert St.
Baltimore, Md. 21202
Dear Mr. Kissoff:
Tidewater Administration's (TA) Power Plant and Environmental Review Division (PPER) personnel attended the January 25, 1989 Location/Design Public Hearing, U.S. Route silgo Creek to Patuxent River. This segment is part of the 29 overall Route 29 improvement proposal which extends fro the Creek to U.S. Route 70 in Howard County.

We did not present a statement at the Public Hearing but would like to have the following comments prepared by Bob Schueler of our Environmental Review Staff made part of the hearing record. The comments were developed against the background of our past comments on U.S. Route 29 Improvement. These include:
(a) Letter of June 20, 1986 to Gannet Fleming Transportation Engineers, Inc. from Md. WRA attached)
(b) Letter of August 7, 1986 to Gannet Fleming Transportation Engineers, Inc. from Charles Gougeon, Biologist, Tidewater Administration. (copy attached)
(c) Letter of September 9, 1986 to Gannet Fleming Transportation Engineers Inc. from W.R. Carter III, Tidewater Administration (copy attached).
(d) Fisheries Division comments of February 27, 1987 to WRA on the Draft Environmental Assessment (EA)' for U.S. Route 29 - Patuxent River Bridge to U.S. Route 40 Howard County, Md. (copy attached). These comments were included in the Final ER, together with SHA responses. Overall we believe the responses do not adequately address the issues we raised.
(e) Fisheries Division comments of February 25, 1988 to WRA on the U.S. Route 29 crossing of Paint Branch (copy attached).

$$
\begin{array}{rll}
\text { Telephone: } & \cdots-\cdots & -\frac{4-2261}{1.974-3683}
\end{array}
$$

(f) WRA comments of February 29, 1988 to SHA on Route 29 crossing of Paint Branch (copy attached).
(g) Fisheries Division comments on May 16,1988 to MD Dept.
of Environment.
(1) The above comments are still valid and reflect our
rns on project impacts. concerns on project impacts.
(2) Our comments on the EA noted that the secondary impacts of SHA highway construction and improvement were inadequately addressed. The facilitation of additional comercial and residential development with consequent loss of open wooded space, expansion of impervious surface and increases in polluted runoff and sediment discharge as a result of this project must be reviewed. We have raised this same point repeatedly over the years with regard to similar SHA projects. SHA response has consistently been to minimize the linkage of secondary impacts to highway improvements, contending that such development was an independent outgrowth of local zoning. We noted that during the SHA project information slide presentation at the January 25 , 1989 Location/Design Public Hearing, the Stewart Lane Overpass was described as "opening up" the wooded area north of Rt. \#29 to development. Such acceleration of development will adversely impact the already stressed Paint Branch strean ecosystem. It illustrates our consistent concern with indirect impacts and our insistence that they be forthrightly evaluated.
(3) Rt. 29 presently bridges Northwest Branch, accommodating six lanes of traffic-as much as is contemplated under any of the alternatives under consideration. We assume that this crossing will therefore remain essentially unaltered. Stormwater runoff (with its load of highway pollutants) enters directly into the stream at the bridge. As part of highway upgrading this situation should be corrected, not only at the Northwest Branch crossing but along the entire Rt. 29 ROW with emphasis on a workable infiltration approach.
(4) Our principal concern, however, remains the Paint Branch crossing. All of the points made in our February 25, 1988 comments remain valid. These center on:
(a) installation of debris net.. under the bridge during
(b) reforestation and landscaping;
(c) preservation of the stream substrate in a configuration basically.replicating existing fisheries habitat.
(d) emplacement of large stones along the..west...bank ;
(e) emplacement of either large, free-standingıstones or imbricated rip-rap slabs.along the lowermost .3_feet of the west_stope_under the bridge.
(f) advance planning to provide for fisheries and aquatic life habitat protection in the context of the ultimate improvement of Rt. 29 at the Paint Branch crossing not merely in the context of bridge deck maintenance. This involves protection of the eroding west bank of Paint Branch by emplacement of large boulders between the bridge and a point approximately 500 feet upstream.
(5) It is our understanding that the bridge maintenance work cited above will commence shortly although in-streamj construction in a Class III. stream such as Paint Branch cannot' begin until April 30,1989 For some reason, the measures recommended in our above cited comments have not been integrated into your planning process. PPER personnel have made contact with SHA project personnel in an effort to retroactively resolve the problem before work gets underway.

We request that these comments be made part of the record for the January 25, 1989 Location/Design Public Hearing. We further request that the involved SHA planning and operational personnel be instructed to implement the fisheries and aquatic life resource protection measures we have previously recommended as soon as possible. Tidewater Administration contact point is W.R. Carter III 301-974-3061.


JMT : BS: sw
attachments (7)

```
cc: Project w/att
    Journal wo/att
    Schueler wo/att
    Gougeon w/att
    Nazir Baig, MNCPPC - 8787 Georgia Ave. w/att
        Silver Spring, Md. 20910
```


## SHA RESPONSE TO MD DNR LETTER, DATED 2/15/89

## Response to Comment (2)

During the construction phase, strict erosion and sediment control measures will be implemented, as approved in the Final Erosion and Sediment Control Plan.

## Response to Comment (3)

Stormwater runoff would be managed under MD DNR's Stormwater Management Regulations.

## Response to Comment (4)

Mitigation measures will be carried out during construction.

## Response to Comment (5)

Mitigation measures will be incorporated into Section IV-Environmental Consequences of the FEIS.

## Faclered highway

Administration

Draft Environmental Impact Statement
USS. 29 - Montgomery County. Maryland
FHWA-ND-EIS-88-04-D

## From:

Eugene W. Cleckley
Chief. Environmental Operations Division Washington, D.C. 20590

To:
Mr. David S. Gendell
Regional Federal Highway Administrator (HFP-03)
Baltimore, Maryland

## Memorandum

SHA RESPONSE TO FEDERAL HIGHWAY ADMINISTRATION MEMORANDUM DATED 2/1/89

## Response to Paragraph (2)

All impacts, be they to the community, the physical landscape, or other environmentally sensitive resources, are addressed in the FEIS.

## Response to Paragraph (3)

(See response to Paragraph (2)). Noise and traffic studies conducted along segments of Route 29 are carefully documented in the FEIS.

US. Deparyment of Transportation
Office of the Secretary of Transportation

Draft Enviromental. Impact Statement U.S. 29, Montgomery County, Maryland FEWA-EI5-88-04-D

Fiom:
Jogeph Canny, Director Office of Transportation Regulatory Affairs

Date:
JAN 13 ROE
Aeply :o Altn. ol:

Eugene W. Cleckley, Chief
Envizonmental Operations Division, EEV-10
We have reviewed the draft enviromental impact statement for improvement of U. S.: 29 from the Sligo Creek Parkway to the Patuxent River Bridge: The proposed action would provide intersection improvements, control of access, and/or high occupancy vehicle lanes, depending upon the alternative selected. We note that 4.8 .29 is being widened from four to six lanes from MD Route 198 to MD Route 650 by the State and Montgomery County. It appears that impaces of the widening projects are not addressed In the draft EIS. Because the widening projects and intersection/ HOV prajects are closely interrelated, the impacts of the widening project should be addressed in the E is to refiect the cumulative impacts of the Route 29 projects.
The draft EIS indicates that there will be no section 4 (f) impacts to paint branch Park or Northwest Branch Park. The basis for this statement and information on whether the widening projects will impact the parks should be provided.
We apprectate the opportunity to review this draft EIS.

## SHA RESPONSE TO MEMORANDUM FROM FEDERAL HIGHWAY

 ADMINISTRATION, DATED 1/13/89
## Response to Paragraph (1)

All impacts of the Route 29 widening are addressed in the FEIS.

## Response to Paragraph (2)

All background information supporting the claim that there will be no 4(f) impacts will be provided in the FEIS.

PROJECT
DEYELCF:-ッ・

Ms. Cynthia D. Simpson, Chief
Environmental management
Project Development Division (Room 310)
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21202
Re: U.S. 29 from Sligo Creek to the Patuxent River Montogmery County, MD (88-11-116)
Dear Ms. Simpson:
In accordance with the National Environmental Policy Act (NEPA) and Section 309 of the Clean Air Act. EPA has reviewed the Draft Air Quality Analysis for the above referenced project. Maximum predicted carbon monoxide (CO) impacts are 3.5 ppm (8-hour average) and 14.4 ppm (1-hour average). Which are below the respective 9 ppm and 35 ppm National Ambient Air Quality Standards. (NAAQS). The EPA-approved MOBIIE3 and CALINE3 models were used. however, there is no mention of the use of models specifically designed for intersections.

Since the highest co concentrations usually occur close to intersections, major intersections should be modeled (or sufficient justification given as to why this is not necessary. using an appropriate EPA recommended model: egg. CALINE3 in combination with Worksheet 2 of Volume 9 of the EPA Guidelines for Air Quality Maintenance Planning and Analysis: EPA-450/4-78-001).

Thank you for including EPA in the early coordination of this report. Should you have any questions, or if we can be of further assistance, please contact Larry Budney (215-597-0545) or Lynn Rothman (215-597-7336) to discuss these comments in greater detail before a response is prepared for the Final Air Quality Analysis.

Sincerely.


Jeffrey M. Alder, Chief NEPA Compliance Section
cc: Larry Budney; EPA

## SHA RESPONSE TO EPA LETTER DATED 1/30/89

Air quality modeling has been incorporated in the FEIS, Sections III and IV.


Mr. Louis H. Edge, Jr.
Deputy Director
Project Development Division (Rm 506)
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21202
Re: U.S. 29 from Sligo Creek to the Patuxent River Montgomery County, Maryland (88-11-123)

Dear Mr. Ene:
In accordance with the National Environmental Policy Act (NEPA) and Section 309 of the Clean Air Act, EPA has reviewed the Draft Environmental Impact Statement (DEIS) for the above referenced project. We have rated the project EC- 2 on EPA's catering scale, a copy of which is enclosed for your reference. This rating is based primarily upon the need for more information regarding sene light rail alternative. There is also concern about potential noise and surface water impacts and the takings of hardwood forest. The following comments are provided for your consideration in the Final Environmental Impact Statement (FRIS).

## Alternatives Analysis

The justification for the transitway option, in-lieu of a light rail facility, is the lower capital and operating coserefrthemerme. Yet unless cost makes an alternative infeasible, there are many other issues that are of equal, or greater, importance that must also be considered in the alternative selection process. For example, it is not stated whether the studies comparing a light rail system and an HOV transitway madmated costs to the consumer. such as gasoline. automobile insurance, and vehicle maintenance/repair, or
 decreaictemexmut-ingntimemorainc reasedesafetyomin addition. the light rail alternative would directly benefit residents of Howard County and may be consistent with the transportation and land use goals of this County.

All of the suggested transitway options will have intersections which operate at a ievel of service $F$ (volumes are above capacity) in the design vear. (It is assumed that widening done by others is included in the traffic projections.) In comparison, the estimated level of service for Route 29 with the light rail facility, as weil as the potential capacity of the light rail system, should be given. Furthermore, page VII-2 mentions the possibility of retrofitting the transitway with a light rail "in the more distant future." The FEIS should discuss whether the alternatives differ in their ability to be retrofitted in terms of cost and engineering.

EPAnbelieves the light rail option is potentannarnayputior "to the transitway options and should have been included in the DEIS. If SHA/FHWA feel that all of the pertinent issues have been adequately addressed in the comparative studies referenced in the DEIS, then the findings of the studies should be related in greater detail in the fiss.

## Terrestrial Resources

There is concern regarding the impact of Alternatives $C$ and $D$ on hardwood forest and agricultural land in the vicinity
 forest andw33 acres of agricultural land could be taken at this.location, the former having an adverse impact on wildife. Therefore, wemecomend that Alternatives B, C and D and the individual options within Alternatives $C$ and $D$, be compared directly with respect to levels of service, safety, and environmental impacts (including, stream relocations, wetlands. agricultural land and hardwood forest) at this intersection. A fustification for the selected design should follow.

The term "Man-Dominated" should also be clarified in the FEIS.

Wetlands
EPA is pleased to have been included in the Wetlands Field View on March 14, 1988. For wetlands that cannot be avoided, the FEIS should identify potential mitigation sites.

## Surface Water

EPA supports the time of year restrictions for instream work stated in the DEIS. In addition, all efforts should be made to minimize channel relocations. The FEIS should provide as much detail as possible regarding unavoidable relocations. EPAmadewsupgts replacementiwith a naturairstream channel,


## Groundwater

Page IV-49 states that a small portion of the Patuxent Formation recharge area is located within the U.S. 29 corridor near Greencastle Road. The design of stormwater management facilities, described on page IV -48, shearatial so consider the possibility of hazardous waste spills from transport vehicles using Route 29.

## Noise

In many cases noise barriers are not feasible due to restriction of access to local residents. Yetshathoptionmef raloanting-residents as real of noise impacts is not dancrused.

Themprs should also confirm whether the proposed highway widening is taken into account in the noise analysis. Air Quality

EPA has reviewed and commented separately on the Air quality Technical Report.

Thank you for allowing EPA the opportunity to review this document. We look forward to working with you throughoiter the NEPA process. Should you have any questions, or if we can be of further assistance, please contact Lynn Rothman at 215/597-7336.

Sincerely,


Joffyoy M. Alder, Chief NEPA Compliance Section
Enclosure
cc: Mr. Herman Rodrigo: fHWA

## SHA RESPONSE TO EPA LETTER DATED 1/30/89

Response to Paragraphs (1), (2), (3) [Section 1]
The potential for a light rail corridor along Route 29 was studied. A report comparing a busway corridor to a light rail corridor was prepared. The high cost of construction and ongoing maintenance of a light rail facility along with the lack of appropriate sites for station and mode change facilities, and projected low ridership eliminated light rail as an alternative. Improvement and expansion of the existing busway facilities will achieve similar ridership at much lower expense.

Response to Section 2 (Terrestrial Resources)
Alternative C-4 At-Grade Option was selected. A justification for the Selected Alternative, as well as all the significant impacts is included in the FEIS.

## Response to Section 3 (Wetlands)

All affected wetlands, as well as potential mitigation measures, are incorporated in the FEIS.

## Response to Section 4 (Surface Water)

During construction, strict erosion and sediment control measures will be implemented, as approved in the Final Erosion and Sediment Control Plan.

## Response to Section 5 (Groundwater)

Stormwater runoff would be managed under DNR's Stormwater Management Regulations.

## Response to Section 6 (Noise)

All noise impacts and appropriate mitigation measures are described in Section IV.

## Response to Section 7 (Air Quality)

All impacts and mitigation measures have been incorporated in the FEIS.


# DEPARTMENT OF THE ENVIRONMENT 

2500 Broening Highway, Baltimore. Maryland 21224
Area Code 301 • 631- 3609
William Donald Schaefor
Governor

Martin W. Walsh, Jr. Secretary

January 23, 1989

Louis H. Ene, Jr.
Deputy Director
Project Development Division
Room 506
State Highway Administration
707 N. Calvert Street
Baltimore, Maryland 21202

RE: Contract No. M 425-101-370, Draft EIS
U.S. 29, Montgomery County

Dear Mr. Ege:


The above-referenced document has been received and reviewed. This Department offers the following comments.

1. Waterways to be affected by this project include Sligo Creek and Little Paint Branch which are Class I, Paint Branch which is Class Ill and Northwest Branch and the Patuxent River which are Class IV. Usual time-of-year restrictions for in-stream work will need to be observed. These are as follows:

Class I - No in-stream work March 1 through June 15
Class 11 - No in-strean work October 1 through April 30
Class IV - No in-stream work March 1 through May 31
2. A good stormwater management is critical to the maintenance of these sensitive waterways. Infiltration of at least the first 1/2" runoff from existing and proposed roadways is the preferred alternative, as this strategy removes both unwanted chemical and thermal pollutants.

## SHA RESPONSE TO MD DOE LETTER, DATED 1/23/89

## Response to Comment (1)

During construction, strict erosion and sediment control measures will be implemented, as approved in the Final Erosion and Sediment Control Plan.

## Response to Comment (2)

Stormwater runoff would be managed under MD DNR's Stormwater Management Regulations.

Floodplains along small, low order streams are buffer zones, where excessive nutrients and sediments from upland disturbances may be trapped and assimilated (Brinson et. al, 1981). Overbank flooding provides an opportunity for upstream derived nutrients to be utilized by riparian vegetation. In the absence of riparian vegetation, or when streams are constrained so that they cannot overflow, nutrients (or contaminant) are exported downstream without opportunity for assimilation or immobilization, except for that provided in the channel itself.

The amount and rate of nutrient uptake by vegetation, return as litter fall, and released by decomposition reported in several studies cited by Brinson et al.. (1981) indicates that floodplains forests retain nutrients by recycling them. Rapid recycling reduces the possibility of nutrient export down drainage. Sedimentation provides a principal mechanism for the delivery and retention of phosphorus to floodplain areas. Where there is extensive swamp vegetation, the rate of sedimentation is accelerated, with far greater amounts of phosphorus being sequestered in the floodplain.

Nitrogen is most often present in stream waters in the form of nitrate. When present in excess amounts, it may cause eutrophication downstream. Currently, the extent to which nitrogen is responsible for eutrophication in Chesapeake Bay is a subject of hot controversy, with a variety of nitrogen controls being funded for various man-caused sources of nitrogen in stream waters. Notable among these is the proposal to install water control structures to retain water in drainage ditches on the Eastern shore, on the grounds that this will enhance denitrification, and the escape of nitrogen into the atmosphere as a gas, rather than its export downstream as nitrate, where it could aggravate eutrophication (S.C.S., 1986). This proposed control method is similar in theory to what floodplains naturally perform for waters which flow onto them.

It is worth noting that the Maryland State Soil Conservation Water Quality Management Plan (Md. Dept. of Agriculture, 1986) has endorsed buffer strips of natural vegetation as a "best management practice for the reduction of escaping subsurface nitrogen from farm fields. The rationale is that the native vegetation is able to take up and utilize the nitrogen from the root zone.

Wharton et al., (1982) noted that the swampy portions of a Georgia river floodplain reduced nitrate, sulfate, calcium and magnesium in small tributaries. They concluded that conversion of even a small part of the floodplain/riparian ecosystem to fields (or other uses) would increase stream loadings of most nutrients. Denitrification reactions in swampy conditions were described previously in this discussion.

The movement and immobization of metals and exotic organic compounds is accomplished in riparian systems by exchange, absorption and chelation with humic substances (humic and fulvic acids, tannins and lignins). Humic acids tend to be immobilized in bottom sediments, creating a sink for the contaminants which they complex and bind up. Fulvic acids, being lighter, may act as ligands for contaminants in the water column, and being carried downstream, flocculate with electrolytes at the saltwater-freshwater interfaces in coastal streams, settling out in such loci. Dissolved materials are slowly converted to particulate matter by freezing, microbial action, complexing with organic compounds and absorption to crystalline lattices of clays.

Reduction/removal of buffer strips from headwater streams reduces the ability of the stream/riparian system to remove or reduce contaminating substances. Reduced amounts of allochthonous materials --sticks, leaves, logs, snags and the like-- both reduces the abundance of organic ligands available for complexing of contaminants, and speeds the water along with whatever contaminants it bears, downstream to the estuary. Residence time in a stream system is an important variable for the purification of water. The more the streamflow is slowed by eddies or leaf packs against logs, the more the water must percolate through, slowly leaching organic material. The slower water migrates away from the point where it falls as precipitation the more opportunity there is for it to evaporate (due to lying in thin layers over extensive surface areas, such as are provided by extensive forest floor leaf litter). The more opportunity water has to evaporate, the less chance there is for contaminants to be carried into streams and estuaries. The longer water lies in sloughs before percolating into the soil, and the more that does percolate into the soil rather than reaching streams as overland flow, the greater the opportunity for both surface and subsurface decontamination through chemical reaction with forest-derived organic and soil compounds. Actions such as hydraulic capacity improvements, removal of vegetation, hastening runoff from urban impervious surfaces, or decreasing the capacity for infiltration or evapotranspiration, aggravate the downstream conveyance of contaminants and the increase of the loadings to Chesapeake Bay.

A dense streamside vegetation canopy guarantees regular fall-in of allochthonous (eg., originating from outside the stream proper) materials, such as leaves, twigs, branches and trees. Terrestrial insects are regular sources of food for stream animals. Lower light levels in headwater stream ecosystems make them primarily dependent on inputs of materials and terrestrial vegetation-fixed energy, since photosynthesis is unable to produce substantial amounts in the prevailing light intensities. Fisher and Likens (1973) reported that more than $99 \%$ of a New Hampshire stream's organic budget came from outside the stream. Vannote (1981) reported that it is common to find greater than 75\% of the energy base of low order streams derived
from terrestrial sources. An alternative method of emphasizing this circumstance is to point out that the ratio of primary production (photosynthesis) to community respiration, (ie. $P: R$ or $P / R$, in terms of grams of carbon per square meter per unit time) is less than 1.0 in the stream. This indicates that the community is heterotrophic, or dependent on external sources for support of its metabolism.

The structural integrity of low order stream beds is dependent partially on stabilization by roots and coarse woody debris. The presence of snags, logs, and other obstructions, are important areas where current patterns and velocities are varied and eddies are created. This leads to creation of diverse microhabitat. A wide size range of bed materials can be deposited in areas of varied current velocities. The presence of varied sizes of particles permits a self-cementing effect as smaller particles pack among the interstices of large ones. Varied and complex substrata provide habitat for organisms having varied requirements. Obstructions which cause variations in water velocities contribute to scouring of beds in local areas, thereby creating variable depths.

Pursuant to the concept outlined above, Fisheries recommends the following as an acceptable revegetation plan. The permit should require that the applicant accept this plan or provide an alternative equivalent substitute.

1. Any areas within the 100 year floodplain disturbed by construction must be revegetate by the applicant.
2. Prior to the start of construction the upper 2 feet of topsoil in the areas that will be disturbed by the project must be removed and stored outside the floodplain. Following the projects completion the stored topsoil will be used to resurface the disturbed area on the site. The area should then te stabilized and revegetate as specified below.
3. Disturbed areas within 25 feet of the stream's bank should be revegetate with a mixture of golden (Niobe) willows (Salix niobe), river birch (Setula nigra) and red maple (Acer rubrum) planted on 15 foot centers. Trees along the possible. Further back as close to the stream's bank as year floodplain, a mixture of tress from Table 1 can 100 planted on 25 foot centers. Specifications as to the size and root condition of the trees to be planted are found in Table 1 .
4. A mixture of understory vegetation, selected from Table 2, should be planted along the stream's banks. Three or more understory plants should be planted between the first line of trees along the edge of the stream. Further landward of
the stream's banks understory seedings should be planted at a density of 1000 plants per acre of disturbed floodplain.
5. Appropriate fertilization should be used.
6. Pit dimensions should be 42 inches in diameter and 24 inches deep for shade trees and 18 inches in diameter and 18 inches deep for understory shrubs.
7. Planting may occur in either Spring or Fall. In the case of Spring planting, the applicant should be advised that planting may have to take place during rainy weather, since waiting until clear weather (e.g. June) may be so late as to cause failure of plantings.
8. The applicant is responsible for insuring the survival of planted trees and shrubs for at least one year. The site must be surveyed by the applicant 1 year following the completion of the project to determine survival and condition of planted vegetation. The applirant will notify the permitting agency at least 5 working days prior to the day the inspection will occur. Results of the inspection must also be reported to the permitting agency within 30 days after the inspection is completed. If more than 10 \% of the trees or understory vegetation planted by the applicant are either dead or seriously damaged, then all dead and damaged plants will be replaced. For seedings, a minimum 50 \% survival rate is required. If seeding survival is less than $50 \%$, then a second planting to replace the dead seedling will be required.

## Literature Cited

Brinson, M.M., B.L. Swift, R.C. Plantico, and J.S. Barkley. 1981. Riparian ecosystems: their ecology and status. U.S. Fish and Wildife Service. FWS/OBS-81/17.

Fisher, S.G. and G.E. Likens. 1973. Energy flow in Bear Brook, New Hampshire: an integrative approach to stream ecosystem metabolism. Ecol. Monogr. 43(4):421-439.

Maryland Department of Agriculture. 1986. Maryland Agricultural Water Quality Management Program. Md. Dept. of Agriculture, Annapolis, Md.
S.C.S. (U.S. Soil Conservation Service. 1984. Environmental Impact Statement, Goldsboro Watershed (PL. 83-566 project) Caroline County, Maryland. U.S.D.A. Soil Conservation Service.

Wharton, C.H., W.M. Ritchens, E.C. Pendleton, T.W. Sipe. 1982. The ecology of bottomland hardwoods swamps of the Southeast: a community profile. D.S.F.W.S. / OBS-81-37.

Table 1. Recommended shade trees to be used in restoration of 100 year floodplain.


[^7]Table 2. Rec commended understory vegetation to be used in restoration of 100 year floodplain.



DEPARTMENT OF THE ENVIRONMENT 2500 Broening Highway. Baltimore, Maryland 21224

Area Code 301 - 631-3245

William Donald Schaefer Governor

January 12, 1989
Martin W. Walsh, Jr.
Secretary

Ms. Cynthia D. Simpson, Chief Environmental Management Project Development Division
707 North Calvert Street
Baltimore, Maryland 21202

RE: US Route 29 from Sligo Creek to the Patuxent River
Contract No. M 425-101-370
PDMS No. 152019

Dear Ms. Simpson:
I have reviewed the air impact analysis performed for the proposed improvement alternatives for the U.S. Route 29 from Sligo Creek to the Howard County line and concur with its conclusions.

Given the expected increase in traffic predicted for the region, I believe that the build alternatives will yield the best air quality for the area. In particular, Alternative D, consisting of separated High Occupancy Vehicle (HOV) lanes utilizing the existing median, will not only enhance traffic flow but will also encourage car pooling, van pooling and mass transit use throughout the region. This will enhance Maryland's ability to attain and maintain the National Ambient Air Quality Standards for ozone and carbon monoxide. Therefore, 1 strongly encourage the Department of Transportation to consider Alternative D in preference over the other alternatives in the proposal.

The proposed project is consistent with the transportation control portion of the State Implementation Plan for the Metropolitan Washington Interstate Air Quality Control Region. Furthermore, adherence with the provisions of COMAR 10.18.06 .03D will ensure that the impact from any construction phase of this project will be minimal.

Thank you for the opportunity to review this analysis.
Sincerely,


Mario E. Jorquera, P.E. Program Administrator Air Management Administration

## SHA RESPONSE TO MD DOE LETTER, DATED 1/12/89

Alternative D was not selected.

# THE MARYLAN <br>  <br> Mr. Louis H. Ege, Jr. <br> Deputy Director <br> Project Development Division <br> State Highway Administration <br> 707 North Calvert Street <br> Baltimore, Maryland 21203-0717 

8787 Georgia Avenue • Silver Spring. Maryland 20910-3780
January 4, 1989

Re: Sligo Creek Stream Valley Park at U.S. 29
Dear Mr. Ege:
You recently requested information concerning parkland located at the above referenced intersection. This information is needed by your office so that it can adequately assess the potential impacts of widening the Sligo Creek Parkway approaches to Route 29. This widening work would be done in conjunction with'other improvements being considered for Route 29 between Sligo Creek Parkway and the Patuxent River.

In this regard I am pleased to provide the following information in series as it was requested:

1. Park history, plan and uses.

Sligo Creek Stream Valley Park in the vicinity of its intersection with Route 29 was purchased from several different private landowners beginning around 1930. As stream valley parkland this property is primarily intended to be managed and maintained as a conservation and open space resource. Portions of Sligo Creek Stream Valley Park, however, have been developed over the years with facilities such as picnic areas, playground equipment, tennis courts, recreation buildings, a two lane parkway road, paved hiker-biker paths and parking lots. Just north of the sligo Creek Parkway intersection with Route 29 the Montgomery County Parks Department has its Parkside Headquarters Office. Further north on Sligo Creek Parkway, not far from our office is a nine hole public golf course.

Within Sligo Creek Stream Valley Park immediately north and south of Route 29, park improvements are limited to the parkway road itself and a paved hiker-biker path. There is, in addition, a gravel pull-off area on the east side of the parkway road north of Route 29. South of Route 29 east of the parkway road is a driveway which serves a private residence having an address of 9301 Colesville Road, Silver Spring. We have not made an inventory of the natural features such as specimen trees, flood plains, wetlands or other unique features that may be impacted by widening the parkway approaches. We expect to do this inventory and report our findings to you in the not too distant future.
2. Who has jurisdiction over the park?

Sligo Creek Stream Valley Park, including the two lane roadway and the approaches to Route 29 from the north and south are owned by The Maryland-National Capital Park and Planning Commission. Responsibility for maintaining and managing this park belongs to the Montgomery County Parks Department of the Commission. Any divestiture of property ownership required for right-of-way needed by this project will have to be approved by the full Commission following a recommendation of the Montgomery County Park Commission. Incidentally, the Park Commission also serves as the Montgomery County Planning Board when dealing with planning matters in Montgomery County.
3. Are any portions of the park funded with Program Open Space funds or Section 6 ( $f$ ) funds?

Sligo Creek Stream Valley Park was not funded with Maryland Program Open Space funds for either acquisition or development. On the Federal level, however, acquisition monies were received under a program known as the CapperCramton Act. The parcels impacted by the proposed widening of the approaches to Route 29 received 308 funding under that Act. As part of our funding contract with the Federal Government any changes of parkland use must be reviewed and approved by the National Capital Planning Commission (N.C.P.C.) prior to such changes taking place. If you wish to preliminarily contact N.C.P.C. concerning S.H.A.'s proposed plans $I$ would suggest you make that contact with:

> Reginald W. Griffith Executive Director National Capital Planning Commission 1325 G Street, N.W. Washington, D. C. 20576 Phone: $724-0176$

I hope the above information sufficiently responds to the questions asked in your recent letter. If you have any further questions regarding this matter, please do not hesitate to call me at (301) 495-4620.

Sincerely,


William E. Fries
Land Acquisition Specialist

Mr. Neil J. Pedersen, Director<br>Office of Planning and<br>Preliminary Engineering<br>State Highway Administration<br>707 North Calvert Street<br>Baltimore, Maryland 21203-0717

Reply Date Due: December 28, 1988
State Application Identifier: MD881122-0869
State Clearinghouse Contact: Samuel Baker
RE: DEIS - US 29, Sligo Creek to the Howard Co. Line

Dear Mr. Pedersen:
This is to acknowledge receipt of the referenced project. We have initiated the Maryland Intergovernmental Review and Coordination Process as of this date. You can expect to receive review comments and recommendations on or before the reply date indicated. If you have any questions concerning this review, please contact the staff member noted above.

The State Application Identifier (SAI) must be placed on any financial assistance application form and used in future correspondence.

We are interested in the referenced project and will make every effort to ensure a prompt review. Thank you for your cooperation.

Sincerely,


Mary J. Abrams Director, Maryland State Clearinghouse for Intergovernmental Assistance

MJA:SB:scl

## RECEIVED

JED ! 1988




October 25, 1988

Ms. Cynthia D. Simpson, Chief
Environmental Management
Maryland Department of Transportation
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21203-0717

Re: Contract No. M 425-101-370
US 29 from Sligo Creek to the Patuxent River PDMS No. 152019

Dear Ms. Simpson:
Thank you for your letter of September 29, 1988 concerning the above refer inced project.

This office has determined that the revised alternates $\mathrm{D}-2-1, \mathrm{D}-3-1$ and $\mathrm{D}-3-4$, as shown in the submitted plans, will have no adverse effect on the Marlow (Bushnell) House.

We understand, based on a telephone conversation with Ms. Rita Suffness, of your office, that Alternate $C-4$ is the same as Alternate D-3-4 and there afore would also be considered to have no adverse effect on the Harlow House.

Should you have any questions concerning this review, please contact Michael Day at 974-5000.


GJA:MKD: lab
cc: Ms. Rita Suffness
Ms. Mary Ann Kephart
Ms. Roberta Hahn


Department of Housing and Community Development Shaw House, 21 State Circle Amman- 'Maryland 21401 (301) 974-5000

## $4 \operatorname{sen} \mathrm{Br}$

Action Committee for Transit


Mr. Larry Saben, Director
Office of Public Transportation
Management
Maryland Department of Transportation

Man Sabeh,
Dear Mr. Sabeti,
Thank you for sending your analysis of March 26, 19 parel cost effectiveness of U.S. 29 transit options: the contra-low busway and the light rail line. We are happy o see that you agreed with several of the points that ACT raised in January. In fact your new study shows light rail can perform well compared to the busway:

- the operating deficit oî a light rail line would be nearly half that of a busvay ( $\$ 4.3$ million versus $\mathbf{5 8 . 1}$ million a year);
- the light rail line would earry roughly the same number of people as a busway, but there would be more Montgomery County riders on the light rail line than on the busway;
- more people would walk and use feeder buses to reach the light rail line than the busway; the flip side is that fewer cars would burden local access roads with the light rail line;
- the busway would add 100 peak direction buses at rush hour to the 50 buses that operate in mixed traffic today south of Sligo Creek Parkway; this cuts into road capacity more severely than the 12 trolleys needed for the same passenger loads.

However, several of the "conclusions" that are reached in the DOT study don't rollow from the data. For example your cover letter states that the operating deficit for a light rail system was estimated at $\$ 7.4$ million vs. $\$ 11.1$ million for the busway. These numbers are in fact the cost of the transitways before revenues are added in. Using the cost figure so prominently and labeling it the deficit figure leads the unwary eader to suppose that there is not much difference between the two systems, when in fact the bottom line very much favnrs the light rail.

Another faulty conclusion is that the light rail needs "stations in the median of a grade-separated highway. The study boldy budgets over $5 S$ milion dollars per station ven though U.S. 29 is not grade-separated, there are stop lights at each of the eleven tations that you proposed, and pedestrians can cross at the light cycie. Why the extraordinary cost for a non-Metrorail light rail station? The average Georgetown Branch station costs only about $\$ 0.5$ million, one tenth the U.S. 29 budget!

The study concludes wrongly that the light rail line, the parking lots, the stations, and the trolleys will last less than ten years! From this starting point, the study can't help but find that a busway is more cost-effective. Correcting the station costs alone brings the light rail line and the busway to within $15 \%$ of each other on an annualized cost basis. Correcting the study to account for the twenty to thirty year life of the trolley facilities will show it to be a more cost-effective investment than the busway.

The study also doesn't address the dangers of the contra-llow busway concept which has proven to be deadly when pedestrians cross the road and the lanes. It took wo pedestrian deaths and several dozen injuries for Chicago to reverse a four-year altached commentary gives more detail on their experience in with the traffic. The

Finally, neigbor
Finally, neighborhood impacts from the two transit systems are not discussed. The busway would provide no service to the very neighborhoods around the Four Corners intersection that would bear the brunt of the negative impacts of the proposed The light rail line, on the other hand, would stop in the neighborhood, and would be an improvement for the Four Corners area, as well as for all residents an Colesville Road.

What is the next step for working out the best transit system for this corridor? ACT suggests that a joint State-County study be undertaken with the goal of obtaining a consensus by the end of the year on the ridership, costs, and on the cost-sharing hat is such a critical part of determining whether the project should be done, and in what fashion. The slow shifting of US DOT attitudes towards highway and transit quality of shares of Federal dollars regardless of mode and growing recognition of he role that rail transit can play - make it essential that we not pass over U.S. 29 lightly. It is the highest potential transit corridor in our area after the Georgetown Branch, and we should give it the careful and responsible thinking that it deserves.


Nicholas M. Brand
Chairman
cc. William Hanna, Council President

Neal Potter, Chairman, T\&E Committee
enator Ida Ruben
Delegate Michael Gordon
Delegate Jennie Forehand
Gus Bauman Chairman
us Bauman, Chairman, Planning Board
Tobert McGarry, Director of Transportation
Tony Hausner, U.S. 29 Coalition

Marfland Department offransportation
The Soccenary＇s Otice
8720 Georgia Avenue，Suite 904
Silver Spring，MD 20910

Mey 30， 1990

## Mr．Nicholaa M．Brand，Chairmen <br> Action Committee for Transit <br> P．0．Box 7074 <br> Silver Spring，MD 20907

Deer Mr．Braod：
This latter acknowledgas receipt of and reeponds to your corraspoodance to Lerry Saben of May 14，1990．Mr．Saben hae resignad froathe Merjland Departaent of Transportation effective Mey 21，1990．Our office will be pleased to maintain tha dia－ logua thet the Action Comaittee for Transit，through jou，and Mr． Saben have entered into io regards to traneit solutions for US 29 and other areae of lotereat in Mootgomary Couoty．

Your later dateiled ACT＇s reviev of OPTM＇s most racent comparative analyais of altarnetive treneit technologies for the US 29 corridor（March，1990）．Thank you for ACT＇s cloee reading of this report．Thera are several issues raised by ACT＇s raviav
that merit point－by－point response．

## Light Rail Cepitel Coata：

ACT expreseed concern ovar tha eatimated coets for LRT stations and parking．Station costs were eetimated usiog a model developad for the Statevida Commutar Aaeietance Study．Key esaumptions that drove the eatimata vera tha total acceesibility of the syatem to disablad patrone and a high level of improva opereta in the centar of e congeated highway，the high quality of facilities transit ridera in this area expect，the conditions for accaeibility，and the preliainary nature of thie study，ve beleive theae estimatee raflect fair judgement from which to compara technologies．

ACT disputes tha estimated cost of LRT parking facilities on two pointa．I think tha raport＇s position can be clarified to enswar thea quaetioos．The report tried to identify current or nar－future apacaa that would be evailabla for both eyetema．Th or oar－future epaces would ba estimatad．

Wlitlem Doneld Schoeter
Governor
Richerd H．Trelnor
Secrotan
Stephen G．Zoniz
Stephen G．2uniz
Depuly Secretery

My telephone number is（301t－565－9665
TTY For the Deet：（301） 6046919


Mr．Nicholas Brand
Paga two

Since LRT vould operate in the medien of US 29 tha perking apaces for any LRT etatione would have to be adjacent to US 29 （Not in the median of US 29 ae ACT has underatood）．Busway transit centers and aasociated parking could be further away from US 29．Giveo that the total requiremants for parking are similer for both efateme，thie fact has two impacts on the estimated parking coste．Firet LRT neede more new spaces becauae it cannot ue spacee currently in uee that are＂off＂US 29．Secondy since land adjacent to US 29 is more expensive than land off＂the highvaj，apaces built thare will obviously coat mora．

The parking cost eetimates were coordinated with SHA，the Montgomery County Real Estate Office，sid other local experience involving Metrorail lots and Park and Ride lots．

> Your letter etated that the report erred by asoming that LRT facilities have a uaeful lifa of about ten jeara．Io fact the report aeeumes a 25 to 30 yar 1 ife for vehiclea and moet oystem components．The coat of the aaeet ie diecounted over that tarm．Thie ie clearly stated in the text of the raport．

## Safety and Neighborhood Impact：

The scope of OPTM＇s March 1990 report vas limited．The report did not addrese in detail ACT＇s concerns over the eafety of a contra－tiow buevaj or of a LRT in mixed trafici Theee are genuine ieauee that sina ie investigating throughout ite project US 29 corridor will encompaes these concerns．

## The Mext Step for Tranait on US 29：

The Statewide Commuter Aeeietance Study will be complete in June，1990．US 29 is one of tha corridors under study in thie major effort．The SCAS results will likely direct the next atep of action in regard to many priority corridore throughout tha state．In the months that follow inportant decieione vill be made by the County and State leadera as to the best eolution oo US 29.

Mr. Nicholea M. Brend
Pege three

Pleeee contact David Rarley of ay etaff at tha above addrass or at (301) 565-9665 if you heve further quastions on the OPTM tudy or other astora of intareat. Ae elveya ve eppreciata ACT's thoughtful contribution to trenait in Maryland s busiaat euburba.

> Singerply,
> Alax Edkmann, Acting Director Office of Pubilic Transportation Manegement

## AR:DE: 8m

cc: Secretary Richard Treinor
Neil Pedersen, SHA (w/attachment - ACT's letter)
Neil Pederaen, SHA (W/attachment
Willian Hanna, Council Praeident
Neal Potter, Chairman, T\&E Coanitiaa
Senator Ida Ruben
Gua Bauman, Chairaan, Planning Board
Robert McGarry. Director of Transportation Delagate Jennie Forehand Delegata Michael Gordon

Mr. Neil J. Pedersen. Director
office of planning and
Preilminary Engineering
Maryiand Department of Iransportation
State Highway Administration
707 North Calvert st.
Baitimore. Maryiand 21203-0717
Dear Mr. Pedersen:
He have hao the opportunity to review a copy of your May 5 . 1992. ietter to the Mr. Robert w. Marriote. Jr.. Planning Director for Maryland-National Capital Park and Pianning Commission. Your letter speaks to an overpass for the hiker-biker trait at sifgo creek Parkway and US 29. community opposition.

We do not question whether an overpass as cited above has met with. "stiff community opposition." but it is this reference that the Park and pianning commission cites whenever we have requested the Park and pianisa at US 29 and Hastings Drive, between Hastings and the 1-495.

Every morning we take our lives into our hands as we cross US 29 to catch the busses that go to the Silver Spring Metro. There 29 to catch the bussest at our intersection. Io cross at ilight. is no crosswalk or ilight at our intersection. To cross at a mich is 0.2 mile. There are no we must walks on the west side of US 29, colesvilie Road. Those who cross the street must then work there way back north without sidewalks 0.1 miles to the bus stop or down 0.15 miles to the next bus stop.

He would appreciate consideration of a pedestrian bridge across us 29. Colesvilie Road between Hastings Drive and I-495. Your assistance and attention to this is appreciated.

Sincereiy.

peter A. Encheimayer

$$
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& \text { Silver Spring. Mo } 20901 \\
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\end{aligned}
$$

Mr. and Mrs. Peter A. Enchelmayer
308 Normandy Drive
Silver Spring MD 20901
Dear Mr. and Mrs. Enchelmayer:
Thank you for your receni letter conceming a pedestrian overpass in the vicinity of Hastings Drive. As you stated in your letter, we have received opposition from the community to pedestrian overpasses. They feel thal these overpasses would be visually intrusive to the neighborhood and would not be utilized by the pedestrians. These were the main reasons for not continuing with the overpass proposals.

In your area of Hastings Drive, an overpass was previously proposed in our projeci planning studies. It was developed in conjunction with two alternatives thai required the removal of the median. Since the median provides a refuge for crossing pedestrians and it was being removed, the only way to provide a completely safe and efficient crossing was to have an overpass. However, the idea of removing the median was not very well received and thus has been labelled as a non-preferred alternative. Although a proposed overpass in conjunction with an altemate which left the median in place was not explicitly studied, based on the strong community opposition to overpasses in general for the reasons cited above, we do not intend to further pursue this concept.

If you have any further questions or comments, you may contaci me or the projeci manager Mr. George Walton. George can be reached in Baltimore at (410) 333-1139 or toll free 1-800-548-5026.

Very truly yours,

## oreil of ledersen

Neil J. Pedersen, Directo
Office of Planning and
Preliminary Engineering
cc: Mr. Louis H. Ege, Jr.

My telephone number te _(410) 333-1110___
Teletypewriter for Impaired Hearing or Speesch
nore
707 Metro - 565.0451 North Calvert St., Baltimere. Meryland $21203-0717$

Maryland Department of Transportation

10000 Brunett Avenue
Silver Spring,

Ir. Neil J. Pederson, Director
Office of Planning and
Peliminary Engineering
state Highway Administ
t stree
Baltimore, MD 21203
Dear 5 m. Pederson:
I wish to thank you for your time last night in listening I wish

I really am concerned over the outcome mainly for selfish reasons however I believe you are cognizant over the neighborhood disruptions in the traffic patterns and are trying to help solve the situation

I am worried over the increased traffic on my road as a bypass to U.S. 29 from ND Rte 193 to Sligo Creek Parkway. I believe that eliminating left turns at U.S. 29 both North and South onto University Boulevard and the jug handle turns combined with the new traffic light pattern is a most intelligent idea.

I also feel that widening both highways will not alleviate the basic problem. This is there is simply too many cars using the available space. This will always be the problem
suggest you put the plan forward as such--Alternative A with the modifications of the traffic lights and the no left turns.
lease keep me informed over your recommendations and decisions feel that your staff and the persons whog met with the oublic were most professional. I do wish the drawings with the trees (landscape) showed more cars. The only time something like this happens at this intersection is about 2:45 AM in inclement weather

Thank you again.

P.S. Please pardon my typing.

Mr. Rlchard D. Karpe
10000 Brunett Avenue Silver Spring MD 20901

## Dear Mr. Karpe:

Thank you for your recent letter concerning the US 29 project planning study.
Increased neighborhood traffic has been a concern throughout the study; however we do not expect additional traffic to divert into the nelghborhoods and, in fact, expect that with less of a capacity constraint at Four Corners, there should be less of a reason for traffic to divert onto the neighborhood streets. Further, if diversion does occur, the county has the authority to apply neighborhood cut-through restrictlons.

Your suggestion to provide the No-Build, Alternative $A$, with the left-turn restrictions on US 29 was Investigated as part of the project planning study. This option does not provide enough relief to the traffic congestion to be considered an adequate solution. It is necessary to add lanes in order to improve the traffic carrylng capabilities. Our analysis shows the intersection will function in the design year of 2015 as follows:

| Alternative A (No-Build) | $\pm 80 \%$ over capacity |
| :--- | :--- |
| No additional lanes; <br> deny lefts off Colesville Road | $\pm 70 \%$ over capacity |
| Alternative C-6 Modified | $\pm 20 \%$ over capacity |

(At-Grade)
Alternative C-6 Modified is preferred, from a traffic congestion standpoint, because it provides comparable service to all the other intersections along US 29 between Sligo Creek Parkway and New Hampshire Avenue. Also, it keeps the system in balance by not providing too much or too little improvement.

Thank you for your suggestion concerning the landscape drawings. We realize there will be more vehicles than what was depicted; however, the purpose of the drawings was to demonstrate our proposals. If too many vehicles were shown, detail on the drawings would be lost

My telephone number ls (410) 333-1110
Teletypewriter for Impaired Hearing or Speech
2.5062 Statewlde Toll Free

707 North Calvert St, Ballimore, Maryland 21203.0717

Mr. Richard D. Karpe
Page Two

It you have any further questions or comments, please feel free to contact me or the project manager. George Walton. George can be reached in Battimore at (410) 333-1139 or toil free, in Maryland only, at 1-800-548-5026.

Very truly yours.
onill of Peheur
Nail J. Pedersen, Director
Otfice of Planning and
Preiliminary Engineering
cc: Mr. Louls H. Ege, Jr. Mr. George Walton

## ROUTE 29 COALITION <br> 9906 Indlan Lane <br> Silver Spring. MD. 20901-2520

Mr. Neil Pedersen, Director
Otfice of Planning and Preliminary EngIneering.
State Highwey Administration (SHA)
PO Box 717, 707 N. Calvert Street,
Battimore, Md., 21203

## Dear Neil,

Thank you for the presentation by the landscape and pedestrian consultants in May. We were pleased with thelr progress. Thet meeting answered many questlons we have for the Four Corners proposal. However, the meterlal was of such volume that we were not eble to see or ebsorb all of the ideas that the landscape consultent had developed. While we realize that these ideas are uncommitted concepts, we need to meet with your staff and your consultants to further explore the landscape packege and its relationship with pedestrien satety Issues. Meny questions concerning pedestrian traffic end safety heve been raised since the presentation.

During the summer, several of us received e letter from George Walton stating that the SHA end the Coelition have not completely resolved their differences. He was understating the differences -- we ere a long wey from agreement on the proposals. Our primary concern is the number of additlonel lanes that ere being edded to Colesville Road and to University Boulevard. Our first preference would be to edd fewer lanes. However, if we must compromise with that many lanes, there are several emelioreting conditions thet must be satisfied to ensure the safety of the users of the intersection.

The following are some of the issues of concern.

- To ensure completion of the entre project, contracts for landscaping, etc. must be ewerded at the same time es construction contrects.
o Modity the aree of study. On (1) Route 29, trom the southernmost extent of the Intersection with Route 495 to the northernmost extent of the intersection at Southwood Road inclusive, and (2) University Boulevard, from the westernmost extent of the Dennls Avenue intersection to the easternmost extent of the Intersection with Route 495 inclusive.


## Pedestrian safety:

- Construction of 2 medlans on Route 29 at Lanark.
- Installation of islend/porkchops et all corners at the Intersection of University and Colesville; attractive urban design of these porkchops with substantial protection for pedestrians (including those mobility challenged)
that provides protection against the incursion of vehlcles onto the porkchop;
- Installation of a signal control at right turn lanes configurable for multiple modes, including slave, pedestrian command and warning modes.
- More substantial concrete barriers between traffic lanes and sidewalks.
- Construct the median on Route 29 north of University and south of Timberwood so as to allow mid-block pedestrian crossing.
- Pedestrians need more protection wherever sidewalk is 5 feet wide or less and the distance between sidewalk edge and street is 2 feet or less.
- Landscaping:
- provide both steps and a ramp at the Four Corners Pharmacy and edjoining parking lot.
provide vertical concrete barriers whenever clearance between sidewalk and street Is 2 feet or less.
- Pedestrian walkways throughout intersection should be designed for heaviest use possible (e.g. school or maximum development of Kay Tract)
o Install utility lines underground (a truck recently snagged one of these wires)
o Pedestrian traffic measurements differ from those estimated by the consultants. We would like to see the raw data and be able to resolve these differences.
o Specify the relationship of this proposal with the varlous placement options of the Blair High School on the Kay Tract, particularty relating to site access/egress for both pedestrians and vehicular traffic.
o The Maryland-National Park and Planning Commission has made considerable efforts toward increasing the throughput of the Sligo Creek Parkwey/Route 29 intersection. We need more information about the proposals for the Sligo Creek Park intersection.

We would like to schedule a meeting with you as soon as possible in edditlon to the Informetional meeting et Sligo Middle School scheduled for November 4, 1992.

Sincerely yours,
haven I.Michels
Karen Michaels, Co-chair


Co-chair



Route 29 Coalition
c/o Mr. Michael Pfetsch
9906 Indian Lane
Silver Spring MD 20901-2520

## Dear Coalition:

Thank you for your recent letter concerning the proposed intersection improvements at Four Comers. As you requested, we will schedule a meeting to discuss the proposed improvements with representatives of the coalition.

In your letter, you outline issues. In responding we have restated your concern, marked with (C), and our response, marked with (R), follows.
I. General
(C) To ensure the completion of the entire project, contracts for landscaping, etc. must be awarded at the same time as construction contracts.
(R) We will endeavor to have the roadway construction and landscaping contracts either combined in a single contract or coordinated to immediately follow each other. Most landscaping work will follow as soon after the roadway work is completed as practicable.
(C) Modify the area of study. On (1) Route 29, from the southernmost extent of the intersection with Route 495 to the northernmost extent of the intersection at Southwood Road inclusive, and (2) University Boulevard, from the westemmost extent of Dennis Avenue intersection to the easternmost extent of the intersection with Route 495 inclusive.
(R) Our understanding is that your purpose for increasing the study area is to be compatible with the Blair High School relocation study. The State Highway Administration (SHA) study has already incorporated these study limits into our project planning study. During our study, we analyzed this area for transportation impacts. Since we are not proposing any improvements other than those at the Four Cormers intersection, it may appear as though these areas have not been considered. But as part of our traffic analyses, these sections were investigated. Further, we will keep in contact with the county as they develop their school plans and provide them with our comments.

Mey lelephone number ia (410) 333-1110

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383 -7555 Ballemora Malicty. $565-0451$ D.C. Malio. 1-500-492-5062 Sialewida Toll Free
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## Route 29 Coalitio

Page Two
(R) It is not SHA policy to relocate utilities underground. However, if funding and right-of-way were made available from other sources, it would be sensible to have the utility relocation done concurrent with the intersection reconstruction.
(C) Pedestrian traffic measurements differ from those estimated by the consultants. We would like to see raw data and be able to resolve these differences.
(R) 1 am providing you with the numbers that were prepared for the SHA project planning study. As for the data associated with the Blair High School, I refer you to the Traffic.Impact Study for a Senior High School at the "Kay Tract" at Four Comers. prepared by Lukas Associates for the Montgomery County Public Schools, dated July 30, 1992. Please note that SHA was not involved in the development of the numbers in that report.
(C) Specify the relationship of this proposal with the various placement options of the Blair High School on the Kay Tract, particularly relating to the site access/egress for both pedestrians and vehicular traffic.
(R) The possible relocation of Blair High School to this site does not add or detract from the need for intersection improvements. The original improvements are based on the Kay Tract being a mixed use site. This zoning generates a higher volume of traffic than a school site. Further, if a school was placed at Kay Tract, the peak travel times would be different than those found on Colesville Road. Since this site is located in the northem part of Blair High School's district, the moming peak flow would be traveling north along Colesville Road, which is opposite the major traffic movements in the moming. Second, the afternoon peak flow from the school would move ahead of the heavy traffic on Colesville Road, since school closing is between 3:00 p.m. and 4:00 p.m.

The details of site access have not been resolved. The Traffic Impact Study does discuss altermatives for access to the site; however, no final selection has been made. Athough there has been no official submittal by the county, SHA will continue to coordinate on these issues.
(C) The Maryland-National Capital Park and Planning Commission has made considerable efforts toward increasing the throughput of the Sligo Creek Parkway/Route 29 intersection. We need more information about the proposals for the Sligo Creek Parkway intersection.
(R) 1 am providing you copies of mapping that depict the altematives that have been considered during the study at Sligo Creek Parkway. They include the 3-1-3, 4-1-2 and Reversible Lane options for Colesville Road and Sligo Creek Parkway being widened to a maximum of seven lanes. Please note that the 3-1-3, 4-1-2, Reversible Lanes and the seven lane option for Sligo Creek Parkway are designated not preferred.

## II. Pedestrian Safety

(C) Construction of two medians on Route 29 at Lanark Way.
(R) The purpose of constructing a second median here is to provide for a shorter pedestrian crossing. Currently, the plan shows eight lanes north and nine lanes south of Lanark Way. The additional lane on the south is to provide for an exclusive lefttum lane from northbound US 29 to Lanark Way. The latest plan also provides for an unsignalized pedestrian crosswalk to be located north of the Colesville Road/Lanark Way intersection. If a second median is provided, it was suggested to place it between the left-tum lane and the through lanes on northbound US 29. This is being investigated and we will be able to discuss it when we meet.

The example of the intersection of East-West Highway, Wisconsin Avenue and Old Georgetown Road does not really apply to this situation. The median there is specifically designed to divert traffic to the roadways. It is not intended as a pedestrian refuge. Pedestrian movements occur at signalized intersections that are at both ends of the median.
(C) Installation of islands/porkchops at all comers at the intersection of University and Colesville; attractive urban design of these porkchops with substantial protection for pedestrians (including those mobility challenged) against the incursion of vehicles onto the porkchop.
(R) We will discuss the pros and cons of both options when we meet.
(C) Installation of a signal control at right tum lanes configurable for multiple modes, including slave, podestrian command and waming modes.
(R) Traffic signals that include pedestrian phasing will be provided at the crosswalks in the Four Comers intersection. The actual phase design has not been determined, but these signals will have the capability to be pedestrian-activated.
(C) More substantial concrete barriers between traffic lanes and sidewalks.
(R) This comment is reiterated several times in your letter. We will investigate the feasibility of providing wall treatment, similar to what is being proposed in front of People's Drug Store, in other parts of the intersection. The two areas it may apply are both at the Marvin Memorial Methodist Church. The first location is on the west side between the church and Colesville Road, and the second location is along the north side of the church berween University Boulevard and the church's playground.

## Route 29 Coadition

Page Four
(C) Construct the median on Route 29 north of University Boulevard and south of Timberwood Avenue so as to allow mid-block pedestrian crossings.
(R) The current plan shows a reduced median width in one section between Timberwood Avenue and University Boulevard. Due to restricted right-of-way, the median had to be narrowed. With the reduced width, there is not enough room to provide street trees. This gives the perception that there is an opportunity to cross Colesville Road. We will not purposely provide a mid-block pedestrian crossing. Our plans call for the crossing of Colesville Road to occur at the Timberwood Avenue and University Boulevard intersections; however, we do understand that people will cross a facility wherever they feel comfortable doing so. We are not promoting or condoning this mid-block crossing movement.
(C) Pedestrians need more protection wherever sidewalk is five feet wide or less and the distance between sidewalk edge and street is two feet or less.
(R) This is being considered with the wall treatments.
III. Landscaping
(C) Provide both steps and a ramp at the Four Comers Pharmacy and adjoining parking lot.
(R) The feasibility of this suggestion is being investigated. Ramp length and right-of-way restrictions are factors that need to be considered before making a recommendation. We will further discuss this when we meet.
(C) Provide vertical concrete barriers whenever clearance between sidewalk and street is two feet or less.
(R) This is being considered with the wall treatments.
(C) Pedestrian walloways throughout the intersection should be designed for heaviest use possible (e.g. school or maximum development of Kay Tract).
(R) Our pedestrian concepts were developed prior to the Kay Tract being considered as a relocation site for Blair High School. However, we have taken the numbers we developed, as well as those developed by the School Board's consultant, and reviewed them in terms of capacity and safety. Our findings are that the improvements being provided with the intersection reconstruction are adequate to handle the pedestrian volumes generated from either scenario at Kay Tract.

## Route 29 Coalition

Page Five

I appreciate your thoughtful review of our plans and look forward to continuing our discussions. If you have any further questions or comments prior to our meeting, please contact me or the project manager, Mr. George Walton. George can be reached in Baltimore at (410) 333-1139 or toll free, in Maryland only, at 1-800-548-5026.

Very truly yours,
Thie of Pedoun
Neil J. Pedersen, Director
Office of Planning and
Preliminary Engineering

## Attachments <br> cc: Mr. Louis H. Ege, Jr. Mr. George Walton

## Maryland Department of Transportation State Highway Administration

## March 17, 1993

Mr. Bernard Fridovich, President
White Oak Area civic coalition
P.O. Box 4441

Silver Spring MD 20914
Dear Mr. Fridovich:
Thank you for your recent letter concerning improvements to US 29, specifically at MD 650 (New Hampshire Avenue) and MD 193 (Four Cornere). We appreciate your detalled review of our propoeale.

Under the lateet proposals for the reconstruction of US 29 at MD 650, US 29 would be widened to three lanes in each direction. This would elininate the bottleneck that currentiy exists. The improvement provides consistent lane balance along the US 29 corridor and the exieting eouthbound left from us 29 onto Oak Leaf Drive will be removed.

You stated a concern that in the eouthbound direction on Colesville Road there would be five lanes merging into three. We have revised earlier plane eo this is not the case. A single lane ramp from eouthbound MD 650 would merge with southbound us 29 north of Oak Leaf Drive. There would be no exclusive right turn lane for Oak Leaf Drive where vehiclee could 'bypass' traffic. Further, the existing left turn lane from eouthbound US 29 to Oak Leaf Drive would be removed and replaced with a median.
Similarly, the ramp from northbound US 29 to southbound MD 650 would begin just north of Oak Leaf Drive. Colejitlle Road at the intersection of Oak Leaf Drive would remain with the same basic width as today.

Pedestrian croesings would be shortened with the proposed improvement. The design calle for the removal of the southbound left turn lane and the revision for the etarting and ending of the intersection and eeven lanes fust south while the sout eide of the intereection remaine the eame ae today's conditions the north side is reduced by one lane.

In your diecuesion of four cornere, you state that unless the intersection capacity ie significantly improved, none of the proposals north of Four Corners will make a major difference. and Sligo Creek Parkway ie to provide a consistent transportation facility that operatee in balance, i.e., no one intersection will function significantly better or worse than another intersection.

Mr. Bernard Fridovich
Page Two
By providing Alternative c-6 Modified (the at-grade alternative) Four Corners will operate at relatively the same levels of service as the other intersections in this stretch of US 29.

Regarding your concerns about business and neighborhood dieruptions, SHA has worked closely with the local businesses and neighborhoods, as well as Montgomery County Department of rransportation and commission representat that the at-grade solution disrupts the area the least. The construction ie smaller in scale than what would be required for an underpass and the length of time for construction is shorter. Further, there 18 only one business that would have to be relocated under Alternative c-6 modified where three are taken with the underpass. Access to the businesses would remain basically as they currently exist

Although the sidewalk would have to be reduced in certain areas throughout Four Corners, we are proposing to complete a sidewalk system for the entire intersection. These sidewalks would be a minimum of five feet wide, with some being as much as ten feet wide.

Associated with the transportation improvements, an extensive landscape/urban design plan has been developed and includes such features as street furniture, bus shelters, pedestrian walls and numerous traw ind shrub plantings. Those involved in the development :3: Ehis plan agree that the streetscape would allo Four corners to once again become the comucility center where individuals can walk to the businesses.

Your last concern was whether these two projects meet the requirements of the clean Air Act. The improvement for US 29 at MD 650 has already received the necessary environmental approvals. Four Corners is in the procese of having the environmental documentation completed. Both projects satisfy the
requirements of the Clean Air Act.

My telephone number le (410) 333-1110
Telelypowntor for Impalred Heering or Speech
Hro - 1-800.492.5062 Stotowlde Toll Free
707 North Calvert St., Bellimore, Marylend 21203-0717

Mr. Bernard Eridovich
Page Three

Once again, thank you for your comments. If you have any further questions or comments, please feel free to contact me or the project manager, Mr. George Walton. George can be reached in proltimore at (4io) $333-1139$ or toli free, in Maryland only, at 1-800-548-5026.

Very truly yours,
onil of Pokesen
Neil J. Pedersen, Director
office of planning and
Preliminary Engineering
cc: The Honorable Ida G. Ruben
Mr. Creston Mills

WILSON, GOOZMAN, BERNSTEIN A MARKUSKI CMERAY LANE PMOTESEIONAL PARK, SUITE 207
gricgonr M. WILson *
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Monroomany Countr orpice Counte of olntr. Suite 3 3423 OLNETLARTONEVILLE ROAO Ouner. ManvLano 200 Merno. Anse 301.924-02es man 301-774.4020 Meflr to Laumil

Mr. Neil J. Pederson, Director
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21203
Re: U.S. 29 MD 193
Dear Mr. Pederson:
Please be advised that this office represents $G \& C$ Properties, owner of the Woodmore Shopping Center, locared at the northeast corner of the above intersection. On April 6, 1993, wy clients and I met with George walton of your office co discuss how the roposed improvements to the U.S. 29 and MD 193 intersection will effect the shopping center and its customers. Mr. Walcon recommended that I advise you in writing of my client's concerns and comments.

The Woodmore Shopping Center has been part of the Four Corners neighborhood for over the past fifty (50) years. An integral part of the shopping center is the gas station which is located directly on the northeast corner of the intersection, and the proposed road improvement would require the displacement of the gas station. Although, my client is not very optimiscic chat this on the re 29 ill signifcanciy corridor, manner which would not require the displacemencerty gas stacton or

The proposed median dividing Rt. 29 on the northside of the ntersection will be sixteen feet wide primarily for the purpose of accommodating the planting of three trees. It would appear by ccommodating the planting of (7) feet and shifting the roadway to the reducing the median by seven displaced from the gas gtarion would be dignificantly reduced. The planting of trees may be a laudable goal, but. not-ar the sacrifice of a viable business. Furthermore, the deletion of the three trees on the median in no way would detract from the overall aesthetics of the project.

The proposed project also adds a right turn lane from
westbound University Boulevard onto northbound Rt. 29. It is our understanding that right curns will not be allowed on red lights, and it is probable that trafilc will back-up blocking the shopping enter's only remaining entrance and exit on University Boulevard. This condition will not only adversely affect the accessibility of the shopping center to its customers and the internal flow of traffic within the parking lot, it will also potentially cause traffic accidents. It is inevitable that customers leaving the parking 10 who intend to travel west on University Boulevard will attempt to enter the travel lanes by driving between cars backed up waiting to make right turns onto Roure 29 , and porentially causing accidents with moving cars in the travel lanes.

The proposed plan also removes all curb-cuts for utilization by customers of the gas and service station. The removal of the curb-cuts greatly impairs the use of the property as a service station andor gas scation. Even if a porth or clocared wich would allow the current use continued. We would reque that the plan be revised whi as station to allow cars to enrer but not exit from both Universicy Boulevard and Roure 29.

Another concern of my clients is that part of the proposed improvements will be construcred over a portion of the basement of the hopping center. My client would request a copy of the engineer's report relaring to this aspect of the improvement, along with report relating sot that the basement will nor be damaged by the construction and that businesses which utilize the basements will not be displaced during construction.

It is our understanding that Mr. Walton in conjunction with your office would be researching my clienc's concerns and would be advising us of SHA's response. If you require any further information, please do not hesitate to contact my office.

In sum, we are urging your office to examine reasonable alternatives which would eliminate the displacement of the gas scation and the adverse impact of this project on the Woodmore Shopping Center.

JWB/kam-66
cc: Dennis Keller


WILSON, GOOZMAN BERESTEIN A MARKUSKI
CHEARY LANE PROFGEBIONAL PARK, sUITE 207 و10 CMENHY LaNE LAUREL. MANYLANO 20700
O. C. Anm 301-993-7400

OnLTMGONa AnNA 410-792-007
FAK 301-933-1330

GRECORYM. WILLON .
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Mr. Neil J. Pederson, Director
State Highway Administration
707 North Calvert Street
Baltimore, Maryland 21203

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\text { Re: U.S. } 29 \text { MD } 193
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Dear Mr. Pederson:
Please be advised that this office represents $G \& C$ Properties, owner of the Woodmors Shopping Center, located at the northeast corner of the above intersection. On April 6, 1993, ny clients and I met with George Walton of your office to discuss how the proposed improvements to the U.S. 29 and MD 193 intersection will effect the shopping center and its customers. Mr. Walton recommended that I advise you in writing of my client's concerns and comments.

The Woodmore Shopping Center has been part of the Four Corners neighborhood for over the past fifty (50) years. An integral part of the shopping center is the gas station which is located directly on the northeast corner of the intersection, and the proposed road improvement would require the displacement of the gas station. Although, my client 13 not very optimistic that the wil signifleancly ais note corridor, $1 t$ would appear that the displacement of the gas station or which would reduce ths amount of displaced property.

The proposed median dividing Rt. 29 on the northside of the intersection will be sixteen feet wide primarily for the purpose of accommodating the planting of three trees. It would appear by reducing the median by seven (7) feet and shifting the roadway to the west, the amount of property displaced from the gas station would be significantly reduced. Ths planting of trees may be a laudable goal, but. not at the sacrifice of a viable business. Furthermore, the deletion of the chree trees on the median in no way would detract from the overall aesthetics of the project.

The proposed project also adds a right turn lane from
westbound University Boulevard onto northbound Rt. 29. It is our understanding that right turns will not be allowed on red lights, and it is probable that traffic will back-up blocking the shopping center's only remaining entrance and exit on Universicy Boulevard. This condition will not only adversely affect the accessibility of the shopping center to its cuscmers and Wride pit inevitable that customers leaving the parking accldents. it lavel west on Univergity soulevard will attempt lot Who lnten tow lanes by driving between cars backed up waiting make right turns onto Roure 29 and potentially causing accidents with moving cars in the travel lanes.

The proposed plan also removes all curb-cuts for utilization by customers of the gas and service station. The removal of the curb-cuts greatly impairs the use of the property as a service station and/or gas gtation. Even if a portion of the gas station is displaced there may be the possibility that the pumps and/or building could be relocated which would allow the current use continued. We would request that the plan be reviged which would add two driveways to the gas station to allow cars to enter, but not exit, from both University Boulevard and Route 29.

Another concern of my clients is that part of the proposed improvements will be constructed over a portion of the basement of the shopping center. My client would request a copy of the engineer report relating to this aspect of the improvement, along with assurances f:om SHA that the basement will not be damaged by the construction :.:I that businesses which utilize the basements will not be displaced ...ing construczion.

It is our understanding that Mir. Walton in conjunction with your office would be researching my client's cincerns and woli: : be advising us of SHA's response. If you require any turther information, please do not hesitate to contact my office.

In sum, we are urging your office to examine reasonable in and the adverse impact of this project on the Woodmore Shopping Center.


JWB/kam-66
cc: Dennis Keller

| O. James Lighthizer <br> Secretary <br> Hal Kassofl <br> Adminstrator |  |
| :--- | :--- |
|  | Mr. Jeffrey W. Bernsteln <br>  |
|  |  |

June 2. 1993

Mr. Jeffrey W. Bernsteln
Wilson, Goozman, Bernsteln \& Merkuski
Wilson, Goozman, Bernstein a
Cherry Lene Professlonal Perk
Cherry Len
Sulte 207
9101 Cherry Lene
Leurel MD 20708
Dear Mr. Bernsteln:
Thenk you for your racent lettar concerning tha proposed Improvements et Four Thenk you for your racent tetar Woormoor Shopping Center.
Corners end thelr Impects to the Woodmo

I em sure thet you can eppreclate that tha development of capecity Improvements for the Four Corners Intersections was a difficult engineering and urben design chellenge glven the very tight right-of-way avallabla to us. We hed os a goel to try to make Improvements to treffic operetions through development of en alternetlve that would Includa eesthetic enhencemants thet would Improve the appeerence of the Four Corners aree. A key element of the alternative that was developed is a lendscaped medlen.

The need to teke the ges station on your cilent's property ls due to a comblnetion of the ilght-of-way needed to fit In the improvements that we feel are needed, as well as traffic operations considerations. In response to the lissues that you ralsed, we looked at whether an ellgnment shlft was prudent and concluded that to try to do so mould result In the displacement of up to five businesses on the west side. We elso would result In the displacement of up to five businesses on the west side. We also looked at the effect of nerrowing the median as you suggested. Unfortunetely, due to roadwey gaometulc consideretions, the medien would heva to be nerrowed for
severel hundred feet in order to affectuate tha narrowing that you requested. This would dremeticaliy impalr our ability to devalop a fully lendscaped median which we feel ls an essential element of the proposed improvements.

We heve very carofully avaluated tuatfic operetional consideretlons in the development of the salected alternate. The additional lenes, Including tum lanes, ere necessary to be eble to get any significent Improvement in cepacity In tha Intersection. Turns in and out of the gas station were a major concarn from o treffic operations standpoint and we felt e slgnificant Improvement could be achleved by ellminating these movements.

My telephona number la (410) 333-1110
Tatatypowiter for Impalred Haaring or Spoech 707 North Catvart St., Battimora, Maryland 21203.0717

Mr. Neil Federsen, Director
Office of Flannirig and Freliminary Engineering State Highway Administration
707 North Calvert Street
Ealtimore, MD 21202
near Mir. Federsen:
The WOACC, estabilished in 1975, is an umbrella organization of reoresentatives of civic asssociations in the Eastern Montgomery County Master Pian (EMCMF) area. The purpose of the Coalition is to tak:e an active part in the decision-making processes regarding planning, growth, and development, in and around the area of the Coalition. After actively participating in the development of the Eastern Montgomery County Master Flan, the Coalition has continued to monitor, and comment on, proposals for development within its area, and issues that affect its area.

We appreciate the cooperation of the State Highway Administration in providing the Coalition with maps of the proposed changes to the Route 29 - New Hampshire Avenue interchange (White Dak) and the Four Corners area. Since the Coalition had previously reviewed in detail all of the Route 29 intersections, from Howard County to the Sligo Creek Farliway, it was particularly valuable to be able to review current proposals for these two crucial intersections. Our comments follow.

## ROUTE 29 and NEW HAMPSHIRE AVENUE

Our review leads us to conclude that congestion problems along Route 29 will not be significantly mitigated by this proposal. Traffic traveling south on New Hampshire Avenue and proceeding south onto Route 29 can be expected to back up on the 0.3 mile ramp from New Hampshire Avenue during Aif rush hour conditions ficive additional to three at Dals Leaf Urive will produce a significant will occur in backup during the All peak traffic hours. This merge will occ the 0.1 mile between the end of the ramp and Dak Leaf Irive.
The right turn lane at Dak Leaf Drive will not remove significant traffic. Ei:perience indicates that this right hand lane will be used to get ahead of traific already on the movement of traffic from Route 95 onto the outer loop of Route 495 just before the New Hampshire Avenue exit on 455 to see this phenomenon. Traffic regularly slows during high volume conditions just before the New Hamphire Avenue e:it, and this area is frequently the location of accidents.

Southbound Foute 29 traific approaching the white Oak interchange has minimal visibility and no way to assess traffic conditicns ahead has minimal on the bridge over New Hampahire Avenue. This traffic will already have dealt with the loss of the dedicated right turn lane onto northbound New Hampahire Avenue before entering two merge zones: (1) with traffic coming from northbound New Hampshire Avenue and (2) traffic coming from New Hampshire Avenue south. The next obstacle is the traffic light at frelude dirive which meters the volume moving south. (The map provided to us does not show frelude arivel This area already has more consecutive lane adjustments a short distance than any other area along foute 29 . Let us not make it worse.

Fedestrians, and more inportantly the transit riders we wish to edest iross Foute 29 at both Oall Leaf and Frelude Dirives. This ncouraal appears to make crossing Route 29 more hazardous than it already is. Let us not forget the fatalities that have already occurred in this vicinity.
The scenario depicted in the AM is repeated in the Fil with northound New Hampshire Avenue traffic proceeding onto Foute 29 north and encountering full lanes just before Stewart Lane. The lights at Stewart Lane control the northbound volume.

We do not believe that adding e::tra lanes at the bridge "relieves bottleneck and increases effective roadway capacity" as stated in the Final Oraft of the FY 94 Annual Growth Folicy. Extra lanes
 jobs in the Fairland/White Oak policy area.

Under constrained fiscal conditions we question the $\$ 1,900,000$ allotted for this project.

## FOUR CORNERS.

We believe that the prime determinant of traffic capacity on foute We beirth and south, is Four Corners. Unless capacity is 29, north and south, is four Corners. the proposals north of four significantil make a major difference.

What we see in the most recent proposals for Four Corners modified) are a trivial redirection IAlternative 6 and Alternative to be controlled by additional of traffic onto e:sisting loops, on the already congested lanes of University Eoulevard.

- It appears that the businesses along Foute 29 that we sought to protect will be impacted, by construction immediately to them, and by permanent reduction of sidewalk width.
* Neighborhoods will continue to be adversely impacted, perhaps worse than now.
- This is not a solution that will increase trafic capacity in anv significant way.

We still believe that a tunnel in the rignt ot way of the eastbound lane of University Goulevard under Foute 29 ifilternative $C$, Concept 5i was the least disruptive and most effective way to significantly increase capacity through this intersection - in all directions. That ootion would not totally solve the congestion problem, however it would seem to provide more relief for houte 29, and hence for the neighborhood streets that are now used by cut through traffic. (We ask vou again to imagine Route 29 and New Hampshire Avenue with jug handles).

Can the requirements of the Clean Air Act be met under the continuing congested conditions that will exist at both White Oak and Four Corners?
We appreciate the opportunity to comment on these proposals.

## Maryland Department of Transportation State Highway Administration

Mr. Bernard Fridovich, President
White Oak Area Civic Coalition
P.O. Box 4441

Silver Spring MD 20914
Dear Mr. Fridovich:
It has come to my attention that Mr. William Tate, speaking on behalf of the White Oak Area Civic coalition, contacted my staff to further discuss the proposed improvements of US 29. The concern focused on the justification for widening the uS 29 bridge over MD 650 (New Hampshire Avenue).
The primary reason for the improvement is to eliminate the existing bottleneck and provide a consistent number of lanes along US 29 between silver Spring and Burtonsville. Currently, this is only a four-lane segment with the remainder of us 29 in this volumes just south of the MD 650 interchange are currently approximately 50,200 vehicles per day and they are expected to approxim to approximately 56,500 vehicles per day by the year incr The numbers fust north of the interchange are 54,600 and 67,800, respectively.

In the northbound direction of US 29 approaching the bridge, we find that the lane-drop situation at the ramp to southbound MD 650 causes congestion. Providing an additional lane would improve the traffic flow here.

The weave between US 29 and MD 650 that occurs on the bridge should improve since there would be less traffic travelling in the right lane of US 29. However, the exclusive lanes that exist for southbound MD 650 to southbound US 29 would become a typical merge section where traffic from MD 650 would merge with southbound traffic on US 29.
Another issue raised is that the improvement would simply move the congestion south to Four corners. Our intent is to handle traffic flow through a 'platoon' pattern south of New Hampshire Avenue. Traffic signals would be timed to make traffic move in groups along the corridor rather than have them collect
intersection. The intent is to have all the signalized intersections at approximately the same level-of-service thus distributing the congestion. In this case the Prelude Drive, would be coordinated.

My telephone number le (410) 333-1110

## Kr. Bernard Fridovich

page two
If you have any further questions or comments, please feel free to contact me or the project manager, Mr. George Walton. George can be reached in Baltimore at (410) $333-1139$ or toll free, in Maryland only, at 1-800-548-5026.

## Very truly yours,

onid $f$ ledusun
Neil J. Pedersen, Director
office of planning and
Preliminary Engineering
Cc: Mr. Robert D. Douglass Mr. Creston Mills

Mr. Bernard Fridovich
Page Three
bcc: Mr. Louis H. Ege, Jr.
Ms. Sharon Yohn
Prepared by: George Walton, Project Planning Division, x1139

## Maryland Department of Transportation <br> State Highway Administration

Mr. Bernard Fridovich, President White Oax Area Civic coalition P.O. Box 4441 Silver Spring MD 20914

Dear Mr. Fridovich :
It has come to my attention that Mr. William Tate, speaking on It has come to my attention that Mr. William rate, speaking on to further discuss the proposed improvements of US 29 . The bridge over MD 650 (New Hampshire Avenue).

The primary reason for the improvement is to eliminate the existing bottleneck and provide a consistent number of lanes along US 29 between Silver Spring and Burtonsville. Currently, this is only a four-lane segment with the remainder of US 29 in this vicinity being a six-lane facility. The additional lane would relieve existing and future traffic congestion. Traffic volumes just south of the MD 650 interchange are currently approximately 50,200 vehicles per day and they are expected to increase to approximately 56,500 vehicles per day by the year 2015. The numbers just north of the interchange are 54,600 and 67,800, respectively.

In the northbound direction of US 29 approaching the bridge, we find that the lane-drop situation at the ramp to southbound MD 650 causes congestion. Providing an additional lane would improve the traffic flow here.
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Another issue raised is that the improvement would simply move the congestion south to Four Corners. Our intent is to handle traffic flow through a platoon' pattern south or New hampshire Avenue. iraric signalor rather than have them collect at one intersection. The intent is to have all the signalized
intersections at approximately the same level-of-service thus intersecting athe apprion this case tha Prelude Drive, Burnt Mills Avenue, Lockwood Drive and Southwood Avenue signals would be coordingted.

Mr. Bernard Fridovich Page Two

If you have any further questions or comments, please feel free to contact me or the project manager, Mr. George Walton. George can be reached in Baltimore at (410) 333-1139 or toll free, in Maryland only, at 1-800-548-5026.

Very truly yours,

Neil J. Pedersen, Director Office of planning and Office of Planning and
Preliminary Engineering

Mr. forect Poulous
cc: Mr. Creston Mills
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Mr. Nell J. Pedersen, Director
Office of Planoing and
Preliminary Engineering
Maryland State Highway
Administration
707 North Calvert Street
Baltimore, MD 21203

## Dear Mr. Pedersen,

This letter is in regard to the proposed improvements at the interseetion of US 29 (Colesville Road) and MD 193 (Uaiversity Boplevard), more commonly known as Four Corners. We have learned of the proposed improvements from the Public Informatiooal Meeting on Four Coroers which was held at Sligo Middle School on Weduesday, Nov. 4, 1992.

We understand that some of the proposed plans ioclude the wideniag of University Blvd., East and Colesville Rd. We are conceroed about any proposed improvement to this intersection, especially those involving property adjacent to the 4 Corners Community Nursery (4CCN) which is loeated in the middle of this intersection, within the Marvin Memorial United Methodist Church at 33 Uaiversity Blvd. East.
$4 C C N$ has a current corollment of 170 two, three, and four-year old childreo. These children use the oursery playground, which is situated on the north side of the huilding, along Universicy Blud., and is enelosed by a chain-link fence and is preseatly only 21 feet from University Blvd.

We are already coocerned about the playgrouod's close proximity to University Blvd. heeause there have heen numerous accidents near the playground at this husy intersection. For example, io Dec., 1992 at approximately 12:30 p.m., a car travelliog westbound on University Bivd., East collided with soother vehicle, jumped the curt and came to rest at 6 e hashes, ahou
 playground. : Fortunately, the car did not hit the playgrouod tence. We fet ran ary wide

For the same safety reasons, we are already cooceroed about the proximity of the buildiog eotraoces aod parkiog lots to Colesville Rd. aod Uoiversity Blvd. The 4CCN families buildiog eotraoces aod parkiog lots to Colesville Rd. aod Uoiversity Blvd. The 4 CCN 32 feet from Colesville Rd. The baildiog entrance oo Colesville Rd, is used for 4 CCN 32 feet from Colesville Rd. The baildiog entrance oo Colesville Rd. Colesville Rd. Also, registratioo a0d fuodraisiog activitues, aod ia curreotly only 29 feet from Colvsvile Rol Also Rd. Childreo can quickly and easily ruo out into these husy streets. And vehieles ean easily jump the curb aod enter the parking lot or even crash into the huilding, as one car did several

 …
$\cdots$ Please consider the safety of the two, three, aod four-year old childreo that atteod the 4 Coraers Community Nursery wheo making soy decisions oo the Four Corners loterse etioo.
Thaok. you for your attention to this matter. Sincerely,
Sincerely.

## Maryland Department of Transportation State Highway Administration

Reverend William Wyatt
Marvin Memorial United Methodist Church
33 University Boulevard, East
Silver Spring MD 20901

## Dear Reverend Wyatt

Thank you for your recent letter concerning the proposed improvements at the Four Corners intersection. We share your concerns for the safety of the children at the Four Corners Community Nursery. I have provided information that will explain the proposed improvements in the vicinity of the church property. These improvements should make the transportation element safer, as well as improve the safety provisions for pedestrians and others working or living next to the intersection by providing a complete sidewalk network throughout the Four Corners area

I am enclosing a map that shows the proposed improvements and have high-lighted certain features that are of specific interest to you. The purple line is the existing property line, the yellow area represents new paving and the orange area is additional right-of-way necessary to provide sidewalks. As part of the roadway improvements, there will be an 8 inch curb, which will provide a better barrier to redirect cars than exists today. The design of the curb is based on $30-40 \mathrm{MPH}$ design criteria that was used for this Intersection.

Additlonal protection to the playground area could be provided with an aesthetically treated wall or a wrought iron fence. Both options will be investigated during the design phase of the study. We can further discuss the issues as the study continues and most likely bring them to conclusion during right-of-way negotiations.

The plan calls for the building entrances to remain basically as they exist today. Two entrances, one on Colesville Road and one on westbound University Boulevard, would entrances, one on Colesvilie Road and modifications since they would be moved back from their present locations.

I have also enclosed a sketch that illustrates a proposed wall between the roadway and the sidewalk on the west slde of the church property. This provides addillonal satety for the pedestrians. This wall is similar to the one proposed adjacent to the Woodmoor Shopping Center. Please note that one pedestrian is shown on the sidewalk and the other on the ramp that leads to the social hall door.

My talephone number la (410) 333-1110
Telatypewriter for Impalred Hasing or Speech 383-7555 Baltimora Matro-565-0451 D.C. Matro - 1-800-492-5062 Statewide Toll Free 707 North Calvart St., Ealtimore, Maryland 21203-0717

## Reverend William Wyatt

Page Two

Also included is a drawing that shows the proposed sidewalk and landscaping for the
northeast side of the property. Additional land behind the proposed SHA right-of-way may be required to allow for landscaping.

If you have any further questions or comments, please feel free to contact me or the roject manager, Mr. George Walton. George can be reached in Baltimore at (410) $333-1139$ or toll, free, In Maryland only, at 1-800-548-5026.

## Very truly yours

## Trid $f$ Feheurn

Neil J. Pedersen, Director
Office of Planning and
Preliminary Engineering

## Enclosures

cc: Mr. Louis H. Ege, Jr. Mr. Creston J. Mills, Jr

\author{
KELLER ASSOCIATES, $\mathbb{N N C}_{p}$ REALTORS <br> DEVELOPS DIVE! IL: 4 DIVIE! in: <br> 10117 COLESVILLE ROAD - SILVER SPRING, MARYLAND 20901 $\left.N O Y^{(301)}\right\}^{593-6500}$

}

November 13, 1993

Mr. George Walton
Project Manager, Pour Corners Project
Maryland Department of Transportation
State Highway Administration
Box 717
Baltimore, MD 21203
Dear Mr. Walton:
Keller Associates, Inc. is the manager of the Woodmoor Shopping Center in the four corners area of Silver Spring. In that capacity it is receiving daily questions from the tenants as to what stage the Four Corners road development project has reached.

I hereby request that at your earliest convenience you attend a meeting, which 1 will arrange, with the Shopping Center tenants. Upon your receipt of this letter please let me know what day and time will be good for you.

Sincerely yours
Keller Associates, Inc.
ais mince l h

LM/ Cd


Commercial and Residential Sales, Leasing and Property Management

US 29 at Pour Corner

## Near Soyran_Bank

IF: Hold existing east curb line and shift proposed template THEN: ${ }^{10.5^{\prime} \text { west. }}$
THEN:
IMPACT: - 7.5' into Amoco Canopy

- Higher retaining wall e fred \& Harry's
- Reduce sidewalk width e Fred \& Harry's landscaping
- Additional Impact to Pet Supplies parking
- Potential minor impact to northeast corner of 7-11 parking
- No impact to east side of US 29

IF: Hold existing west curbline and shift proposed template $5^{\circ}$ east

IHPACT: - Existing east curb would shift 15.5, east under proposed leaving only 5.5' from curb to face of Sovran Bank, potential minor additional impact to church

- No impact to west side of US 29

IF: Reduce median to concrete mountable median (2' wide) and hold proposed west pavement edge. (Median could widen back to 12' near steuart Gas)
THEN:
IHPACT: . Minimal (1'-2') impact to existing sidewalk e Sovran Bank

- Lose landscaping design in US 29 Median

IF: Hold existing east curb use (2') median
THEN:
IMPACT:
Amoco lateral impact would
foot beyond current design
IF: Hold existing west curb and use ( $2^{\circ}$ ) median
THEN:
IMPACT: . 5.5' of existing sidewalk in front of Sovran Bank would be impacted (current design impact is $10.5^{\prime}$ )

IF: Hold current alignment, but eliminate one northbound lane THEN:

IMPACT: . No impact to Sovran Bank sidewalk

- Severe damage to traffic level-of-service

| O. James Lighihizer |  |
| :--- | :--- |
| Secretary | Ms. Lois Miller |
| Hal Kassoff <br> Admunistrator | Page Two |

December 10, 1993

## Ms. Lois Miller

Keller Associates, Inc. Reeltors
10117 Colesville Road
Silver Spring MD 20901
Deer Ms. Miller:
I am writing in response to your letter requesting information on the proposed Improvements at Four Corners and the potentiel impects to the Woodmoor Shopping Center. As we discussed in our telephone conversetion, as opposed to having a meeting, I would provide the necessary Information in e letter.

The State Highway Administration (SHA) is presently investigating options to avoid Impacts to the basement of the Woodmoor Shopping Center. The shopping center has a basement located underneeth the existing sidewelk that extends 10 feet from the storefronts towards Colesville Road. As pert of the proposed improvements, this section of the basement would be impacted. SHA Is looking at elternatives to avoid impacting the basement. These elternatives include reducing the proposed medlen, elimineting the proposed medien and shifting the alignment of Colesville Roed awey from the Woodmoor Shopping. I have enclosed a draft list of the options under consideration and their potential consequences. No selection has been made on the options as more information Is needed, particularly cost estimates. It is not anticipated to resolve this issue until early 1994.

Page Two

I hope this is helpful to you and your tenants. If you have any questions or comments, please feel free to contact me at (410) 333-3439 or toll free, in Maryland only, at 1-800-548-5026.

Very truly yours,

Louis H. Ege, Jr
Deputy Director
Office of Planning and
Preliminary Engineering
by:


Assistant Division Chief
Project Planning Division

## LHE:GWW:sc

Enclosure
Mr. Kevin Nowak (w) enclosure

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4 LANE ARTERIAL ROAD CLOSED SECTION


RAMPS


NORMAL SECTION - U.S. ROUTE 29

NOTE:
THE OIMENSIONS SHOWN ARE FOR THE
PURPOSE OF OETERMINING COST ESTIMATES
AND ENVIRONMENTAL IMPACTS, ANO ARE
AND ENVIRONMENTAL IMPACTS, ANO ARE
SUBJECT TO CHANGE DURING THE FINAL
SUBJECT TO CHA
OESIGN PHASE"
TYPICAL SECTIONS
U.S. ROUTE 29

MONTGOMERY COUNTY

## = EXISTING ROADWAY

-_ PROPOSED ROADWAY
$B=\square$ RESIDENCE TO BE ACQUIRED
(B) BUSINESS TO OE ACQUIRED
lanes not in use
new median space




APPENDIX B
ROUTE 29 ALTERNATIVES - PHOTO SURVEY

I. Sligo Creek Parkway - View from intersection looking southwest onto U.S. Route 29.

II. University Boulevard - On median of 29, looking north.

III. Lockwood Drive - On Route 29, looking east onto Lockwood Drive.

IV. Stewart Lane - Looking northwest onto Route 29.

APPENDIX B
ROUTE 29 ALTERNATIVES - PHOTO SURVEY
(CONTINUED)
$u 0^{1}$

VI. Tech Road - Just southwest of intersection looking north.

VII. Randolph Road - On Route 29 median, looking southwest.

VIII. Musgrove Road - From intersection looking southeast onto Route 29.

IX. Fairland Road - On Route 29, just southeast of intersection looking north.


XI. Greencastle Road - From Greencastle Road, west of 29, looking east.

XII. Blackburn Road - From Blackburn Road, east of 29, looking southwest.

XIII. Route 198 - From main intersection, looking northeast onto Route 29.

XIV. Dustin Road - From North of intersection, looking southwest.

P1912

Revised: Octaber 22, 1993

# SUMMARY OF THE RELOCATION ASSISTANCE PROGRAM OF THE STATE HIGGHWAY ADMINISTRATION OF MARYLAND 

All State Highway Administration projects must comply with the Uniform Relocation Assistance and Real Froperty Acquisition Policies Act of 1970 ( 42 USC 4601) as amended by Title IV of the Surface Transportation $\&$ Uniform Relocation Assistance Act of 1987. (P.I. 10017), the Annotated Code of Maryland entitled "Real Property Articie" Section 12-112 and Subtitle 2, sections 12-201 to 12-212, The Maryland Department of Transportation, state fighway Administration, Office of Real Estate administers the Transportation Relocation Assistance Frogram in the State of Maryland.

The provisions of the Federal and state laws require the state Highway Administration to provide payments and services to persons displaced by a public project. The payments include replacement housing payments and moving costs. The maximum limits of the replacement housing payments are $\$ 22,500$ for owner-occupants and $\$ 5,250$ for tenart-occupants. Certain payments mey also be made for incraased mortgage interest costs and other incidental expenses. In order to receive these payments, the displaced person must occupy decent, safe and sanitary replacement housing. In addition to these payments, there are also moving expense payments to persons, businesses, farms and non-profit organizations. Actual but reasonable moving expenses for residences are reimbursed for a move of up to 50 miles or a schedule moving payment of up to $\$ 1,300$ may be used.

In the event comparable replacement housing is not available within the monetary limits for owners and tenants to rehouse persons displaced by putlic grojects or available replacemant housing is beyond their financial means, replacement "housing as a last rescrt" will be utilized to accomplish the rehousing. Detailed studies must be completed by the state Hiohway Administration befora relocation "housing as a last resort" can be utilized.

The moving cost payments to businesses are broken down into several categories, which include actual moving expense payments, reestablishment expenses limited to $\$ 10,000$ or fixed payments "in lieu ofllactual moving expenses of $\$ 1,000$ to $\$ 20,000$. Actual moving expenses may also inclute actual direct losses of tangible personal preserty and expenses for searching for a replacement site up to $\$ 1,000$.

The acrual reasonable moving expenses may be paid for a move by a commercial mover or fer a self-move. Fayments for the actual reasonable expenses are limited to a 50-mile radius urless the state determines a ionger distance is necessary. The expenses claimed for actual cost moves must be supporced by firm bids and receipted bills. An inventory of tine items to be moved must be prepared in all cases. In self-meves, the state will neg=tiate an ameunt $\leq==$ fayment, usually lower than the lowest acceptable bid. The allowable expenses of a
self-move may include amounts paid for equipment hired, the cost of using the business vehicles or equipment, wages paid to persons who participate in the move, the cost of actual supervision of the move, replacement insurance for the personal property moved, costs of licenses or permits required and other related expenses.

In addition to the actual moving expenses mentioned above, the displaced business is entitled to receive a payment for the actual direct losses of tangible personal property that the business is entitled to relocate but elects not to move. These payments may only be made after an effort by the owner to sell the personal property involved. The costs of the sale are also reimbursable moving expenses.

If the business elects not to move or to discontinue the use of an item, the payment shall consist of the lesser of the fair market value of the item for continued use at the displacement site, less the proceeds from its sale; or the estimated cost of moving the item.

If an item of personal propervy which is used as part of a business or farm operation is not moved and is promptly replaced with a substitute item that performs a comparable function at the replacement site, payment shall be of the lessar of: the cost of the substitute item, including installation costs at the replacement site, minus any proceeds from the sale or trade-in of the replaced item; or the estimated cost of moving and reinstalling the replaced iten.

In addition to the moving payments described above, a business may be eligible for a payment up to $\$ 10,000$ for the actual reasonable and necessary expenses of reestablishing at the replacement site. Generally, reestablishment expenses include certain repairs and improvements to the replacement site, increased operating costs, exterior signing, advertising the replacement location and other fees paid to zeestablish. Receipted kills and other evidence of these expenses are reguired for payment. The total maximum reestablishment payment eligibility is $\$ 10,000$.

In lieu of all moving payments described above, a business may elect to receive a fixed payment equal to the average annual net earnings of the business. This payment shall not be less than $\$ 1,000$ nor more than $\$ 20,000$. In order to be entitled to this payment, the state must determine that che business cannot be relocated without a substantial loss of its existing patronage; the business is not part or a commercial enterprise having more thar. tiree other establishments in the same or similar business that are not being acouired; and the business contributes materially to the income of a displaced owner during the two taxable years prior to the year of the displacement. A business operated at the displacement sita solely for the purpose of rentinc to others is not eligible. Considerations in the state's determination of loss of existing patronage are the tyoe of business conducred by the displaced business and the nature of the clientele. The relarive importance of the present and proposed locations to the displaesa business and the availability of suitable replecoment sitas are also factors.

In order to determine the amount of the "in lieu of" moving expenses payment, the average annual net earnings of the business is to be onehalf of the net earnings, before taxes during the two taxable years immediately preceding the taxable year in which the business is relocated. If the two taxable years are nct representative, the state may use another two-year period that would ke more representative. Averaqe annual net earnings include any compensation jaid wy the business to the owner, owner's spouse, or depencents during the period. Should a business be in operation less than two years, the owner of the business may still be eligible to recaive the "in lieu of" payment. In all cases, the owner of the business must provide information to support its net earnings, such as income tax returns, or certified financial statements, for the tax years in question.

Displaced farms anc non-grofit organizations are also eligible for actual reasonable moving costs up to 50 miles, actual direct losses of tangible personal property, search costs up to $\$ 1,000$ and reestablishment expenses up to $\$ 10,000$ or a fixed gayment "in lieu of actual moving expenses of $\$ 1,000$ to $\$ 20,000$. The state may determine that a displaced fara may be gaid a minimum of $\$ 1,000$ to a maximum of $\$ 20,000$, based upon the net income of the farm, provided that the farm has been relocated or the partial acquisition caused a substantial change in the nature of the farm. In some cases, payments "in lieu of" actual moving costs may be made to farm operations that are affected by a partial acquisition. A non-profit organization is eligible to receive a fixed payment or an "in lieu of" actual moving cost payment, in the amount of $\$ 1,000$ to $\$ 20,000$ based on gross annual revenues less administrative expenses.

A more detailed explanation of the benefits and payments available to displaced persons, businesses, farms and non-profit organizations is available in the "Relocatien Assistance" brcchure that will be distributed at the public hearing for this project and be given to displaced persons.

Federal \& State laws require that the State fighway Administration shall not proceed with any phase of a project which will cause the relocation of any persons, or proceed with any construction project, until it has furnished satisfactory assumances that the above payments will be provided, and that all displaced persons will be satisfactorily relocated to comparable decert, safe and sanitary housing within their financial means, or that such housirg is in place and has been made available to the displaced person.

P4 U6

18410 Muncaster Rd. Derwood, MD 20855

Ms. Betty Bowers
Environmental Manager
Garnett Fleming Transportation
Engineers, Inc.
P.O. Box 1963

Harrisburg, PA 17105
Dear Ms. Bowers:
Enclosed are the Farmland Conversion Impact Rating forms to assist you with the environmental studies for the improvement of U.S. Route 29 in Montgomery County.

Alternative C--Spencerville and Dustin Roads, was the only site in which farmland would be affected. That form has been completed for Parts II and IV. The remaining farms were marked as not containing farmland.

In the future, sending these materials directly to the field office for the county in which a project site is located should ensure a more timely response and return to your office.
If our office can be of further assistance please give us a call at 590-2855.
Sincerely,


Richard R. Brush District Conservationist

Enclosures:
As stated

RRB/bjb
U.S. Department of Agriculture

## FARMLAND CONVERSION IMPACT RATING



Reason For Selection:

* Alternative C - University Blvd. Concept 2


# FARMLAND CONVERSION IMPACT RATING 



Reason For Selecrion:

* Alternative C - Lockwood Dr.

Site $A=$ Concept 3
Site $B=$ Concept 4
Site $C=$ Concept 5

## U.S. Department of Agricuiture

## FARMLAND CONVERSION IMPACT RATING


-rist:n Fe: Selection
Alternative C - Stewart Lane
Site $A=$ Concpet 1
Site $B=$ Concept 2
Site $C=$ Concept $3 \quad$ Site $D=$ Concept 4

## 

## FARMLAND CONVERSION IMPACT RATING



## Hudson For Selection:

* Alternative C - Industry Blvd. and Tech. Rd. Site $A=$ Concept 1 Site $B=$ Concept 2


## U.S. Department of Agriculture

## FARMLAND CONVERSION IMPACT RATING



## Reason For Selection:

* Alternative C - Randolph, Musgrove, and Fairland Roads Site $A=$ Concept 4


# FARMLAND CONVERSION IMPACT RATING 



Feason $\boldsymbol{F}$ or Selection:

$$
\begin{aligned}
& \text { * Alternative } C \text { - Intercounty Connector and Briggs Chaney Road } \\
& \text { Site } A=\text { Concept } 1 \\
& \text { Site } B=\text { Concept } 2 \\
& \text { Site } C=\text { Concept } 3
\end{aligned} \quad \text { Site } D=\text { Concept } 4
$$

## FARMLAND CONVERSION IMPACT RATING



[^8]```
* Alternative C - Intercounty Connector and Briggs Chaney Road
Site \(A=\) Concept 5
Site \(\mathrm{B}=\) Concept 6
```


## U.S. Department of Agriculture

## FARMLAND CONVERSION IMPACT RATING



Fusuon For istection

```
* Alternative C - Greencastle Rd.
    Site A = Concept 1
    Site B = Concept 3
```


## U.S. Department of Agriculture

## FARMLAND CONVERSION IMPACT RATING



[^9]```
* Alternative C - Blackburn Lane
    Site A = Concept 1
    Site B = Concept 3
```


## U.S. Department of Agriculture

## FARMLAND CONVERSION IMPACT RATING



Reason For Selection:

* Alternative $C$ - Spencerville and Dustin Roads
Site $A=$ Concept 1
Site $B=$ Concept 3
Site $C=$ Concept $5 \quad$ Site $D=$ Concept 6
** No basis for answer; Maximum Assumed


[^0]:    * Numbers designated for purposes of this study to identify on Figure III-6.

[^1]:    Teletypowriter for impalred Heoring of Speech 343-1555 Batimore Motro -585-0451 O.C. Melro- 1-600-492-5062 Stan

[^2]:    $\overline{W \cdot} \begin{gathered}\text { Montgomery County } \\ \text { Regulations, } 550-35 \\ \text { (k) }\end{gathered}$ Regulations, 550-35 (k)

[^3]:    Tototypewriter for impeired Hearing or Spacech
     107 North Calverl St.. Bellimore. Meryind 21203-0717

[^4]:    As I stated in my public testimony, the intent of the 1982 Master Plan was to sake Burtonsville a "village center". A "village center" provides services to the local residents. Our investment in the Shopping Center was predicated on being able to provide a portion of the retall component to these local residents. This Center was built with the full understanding that someday. the "by-pass" night be built. However. the Center was not designed to operate as a regional shopping center at the corner of a major grade separated intersection.

[^5]:    Please add myrour namelsito the Malling List．

[^6]:    P Please edd my/our nemelsito the Melling List.
    Pleese dolete myiour nemelsif liom ine Malling List.

[^7]:    $1 \mathrm{~B} \mathrm{\& B}=\mathrm{Balled}$ and Burlaped $B R=$ Bare Root

[^8]:    नeason Fur Serec:.on:

[^9]:    Auasun For Sylaction:

