M-NCPPC

MONTGOMERY COUNTY DEPARTMENT OF PARK AND PLANNING

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

9500 Brunett Avenue Silver Spring, Maryland 20901

MCPB Date July 24, 2003 MCPB Agenda Item 14

July 18, 2003

MEMORANDUM

TO:

Montgomery County Planning Board

VIA:

Michael Riley, Acting Chief, Park Development Division (PDD)

FROM:

Dilip Pandya, Project Manager, PDD

DHP

SUBJECT:

Briefing: Rock Creek Trail Pedestrian Bridge

PURPOSE

The purpose of this memorandum is to provide a status update of the facility plan for the Rock Creek Trail Pedestrian Bridge over Veirs Mill Road. In September, staff expects to present the completed facility plan and seek your approval to transmit it to the County Council with a request for a CIP amendment to fund design and construction of the bridge.

The Department is preparing an application for Transportation Enhancement grant funds to match local expenditures to design and construct the bridge. The grant application requires evidence that facility planning has been completed and that the County Council has approved design and construction funding for the project. The State of Maryland Highway Administration (SHA) will set the due date for grant applications when the Congress approves funding for the renewed program. Since SHA expects to establish an October or November due date for these grant applications, the Planning Board and County Council will need to act quickly so that the application can be completed and submitted on time.

BACKGROUND

The County Council approved the request for funds (\$333,000) to facility plan the Rock Creek Trail Pedestrian Bridge in the FY03 Capital Budget and FY03-08 Capital Improvements Program (CIP) with the expectation that the Department would take the steps necessary to submit a grant application this Fall.

Montgomery County's Department of Public Works and Transportation (DPWT) is working on our behalf with a design consultant to prepare the facility plan and grant application. Please see the attached letter from the Planning Board to County Council President Steven A. Silverman, dated February 15, 2002. Also see the attached Memorandum from County Executive Douglas M. Duncan to Steven A. Silverman, dated March 21, 2002.

PROJECT DESCRIPTION

The purpose of the Rock Creek Trail Bridge over Veirs Mill Road near Aspen Hill Road is to provide a safe and high quality link between two separated segments of the popular Rock Creek Hiker/biker trail to better serve both the bicyclists and pedestrian in the Aspen Hill region of Montgomery County.

In the year 2000, the Aspen Hill Civic Association expressed their concerns regarding the intersection improvements at Aspen Hill Road and Veirs Mill Road. At the Montgomery County Planning Board Public hearing held November 16, 2000, Chairman Hussman expressed his concern for pedestrian safety at this intersection. It was suggested that the State procure funds for a pedestrian bridge to be built over Veirs Mill Road taking the Hiker/Biker trail away from the busy intersection. The state recommended that Montgomery County apply for improvement as an Enhancement Project through the Executive Committee review process.

PUBLIC PROCESS

We have held two community meetings to obtain their input in developing the facility plan and cost estimate for the project. In addition, we also met with the Board of Directors of the Aspen Hill Civic Association on two separate occasions. The comments from these meetings are being addressed as the alternatives are developed

DESCRIPTION OF ALTERNATIVES

Alternative 1

This alternative is the No-Build option. While no impacts would be associated with this alternative, it would not meet the purpose and need of this project.

Alternative 2

This alternative includes an extension of the trail along the parking area and driveway of the Aspen Hill Park outside the tree line, south along the existing Rock Creek Park property bordering Baltic Avenue to the west. The trail would then cross Veirs Mill Road, via elevated

structure, approximately 600-feet northwest of the Aspen Hill Road/Veirs Mill Road intersection. The trail would then ramp back down to the existing grade, and run along the southern edge of Veirs Mill Road for approximately 700 feet, tying back into the existing trail.

Beyond the benefits of increased safety to pedestrians and bicyclists crossing Veirs Mill Road, Alternative 2 provides a more direct connection of the trail. Further, this alternative would introduce fewer impacts to the environmentally sensitive areas of the Rock Creek Park than the more extensive Alternative 3 alignment.

Alternative 3

This alternative proposes that the trail follow existing terrain within the Rock Creek Park, and cross Veirs Mill Road at a location approximately 900 feet west of the Aspen Hill/Veirs Mill Road intersection. The trail would then ramp back down to the existing grade, and run along the southern edge of Veirs Mill Road for approximately 1100 feet, tying back into the existing trail.

Like Alternative 2, this alternative provides a less intrusive structure and trail for the community of Aspen Hill Park. The bridge would be located further from the community sight lines and would eliminate much of the current pedestrian and bicycle traffic on its streets and sidewalks. Further, by locating the bridge closer to the city of Rockville limits, it favors the "gateway/monument" characterization some community members are seeking from the bridge design. Another benefit to the placement of the bridge in a location farther west is through the minimization of the potential impacts to residential properties, and potentially lower structure costs than Alternative 2.

Alternative 4

The Alternative 4 alignment comes as close as possible to Baltic Avenue in the park's existing right-of-way. Under Alternative 4, the path would follow outside the existing Rock Creek Park tree line, adjacent to the corner residence (5114 Adrian Street) and over Veirs Mill Road approximately 400 feet from the Aspen Hill Road/Veirs Mill Road intersection. The path would then continue, via a 500 foot elevated structure, southeast of Veirs Mill Road, tying into the existing trail.

This alternative has been designed with the same criteria as the two aforementioned alternatives. However, this alternative was designed to reduce impacts to the 100-year floodplain. The use of structure to the west of Veirs Mill Road would also avoid impacts to wetlands and does not require the crossing of the existing outfall. The main problem with this alternative is that the trail would be very close to the residents on Adrian Street.

Alternative 5 (Current Recommended Alternative)

Alternative 5 was developed after the initial Public Meeting at the request of the Aspen Hill Civic Association to M-NCPPC in order to provide the community the most convenient access to the bridge crossing while maintaining a reasonable distance from adjacent homes. Alternative 5 also provides a connection to the trail and bridge crossing over Veirs Mill Road near the intersection with Aspen Hill Road and the proposed relocated bus stop related to the SHA widening. This provides residents with a safe alternative to the at-grade crossing when using transit stops along Veirs Mill Road.

The Alternative 5 alignment follows a similar path as Alternative 2 up to Adrian Street. The trail would then cross Veirs Mill Road with an elevated structure with a curve of a radius of 225', while descending at a 5% maximum slope to the south side of Veirs Mill Road. The bridge would be approximately 370 feet northwest of the Aspen Hill Road/Veirs Mill Road intersection.

Vertically, the trail would then ramp back down on structure to the existing grade, running along the southern edge of Veirs Mill Road for approximately 600 feet before tying back into the existing trail. Horizontally, after crossing Veirs Mill Road, the structure would curve back near the Veirs Mill Road/Aspen Hill Road intersection before tying into the existing path. This alternative includes sidewalk and stairway connections to the Adrian Street sidewalk on the north side and to the Veirs Mill Road bus stop on the south side of the intersection. If funds allow, this alternative would include a stair tower to the bridge on the southern side of Veirs Mill Road. The stair tower would have approximately 45 to 50 steps. It would connect to a sidewalk running along the shoulder for 340' to the intersection. The Department of Permitting Services (DPS) approved a flood plain impact study for Alternative 5 which proved that there would be no adverse impacts to the flood plain elevation. Preliminary Construction drawings for this preferred alignment are attached to this memorandum.

Issues and Impacts Summary

The chart below provides comparisons of impacts for the proposed alternatives. These quantities are based on the conceptual level of alternatives development and GIS data provided by the County for alternatives 1 through 5. Alternative 5 was also based on a topographic survey.

Issues and Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Length of Bridge/ Curved Section	No Structure	750 feet of structure/ 75 feet of curved section	825 feet of structure/ 200 feet of curved section	700 feet of structure/ 200 feet of curved section	610 feet of structure/ 542 feet of curved section
Wetland Impacts	None Anticipated	None Anticipated	None Anticipated	None Anticipated	None Anticipated
Could function as a Gateway to Rockville	No Gateway functionality	1,615 feet to Rockville City Limits	1,350 feet to Rockville City Limits	1,860 feet to Rockville City Limits	1,790 feet to Rockville City Limits
Impacts to 100-year Floodplain from earthwork	No impacts	2,300 sqft – with structure on piers 15,300 sqft – retained	7,300 sqft – with structure on piers 20,300 sqft – retained	1,100 sqft – with structure on piers 11,100 sqft – retained	7,800 sqft – with structure on piers 27,600 sqft – retained
Parkland impacts (Property impacts to Rock Creek Park)	No impacts	33,500 sqft – parkland impact	53,500 sqft - parkland impact	29,600 sqft - parkland impact	81,900 sqft - parkland impact
Forest impacts /Specimen Tree	No impacts	26,000 sqft with piers to 30,000	46,000 sqft with piers to 50,000	12,000 sqft with piers to 15,000	7,900 sqft with piers to 57,900

(4)

Issues and Impacts	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Impacts		sqft retained/ Three Specimen Trees	sqft retained/ Three Specimen Trees	sqft retained/ Three Specimen Trees	sqft retained/ Three Specimen Trees

PRELIMINARY COST ESTIMATES; FUNDING

The facility planning cost estimate will be completed prior to the September 11 Planning Board meeting. The preliminary cost estimate is \$5.3 Million. This includes \$1.0 Million for design (including \$333,000 budgeted for facility plan), and \$4.3 Million for construction. In September, staff expects to seek an FY04 CIP amendment to program design and construction funding beginning in FY05. The County Council must approve the amendment this Fall in order to apply for grant funds. Grant funds may provide up to fifty percent of the cost for design and construction. If the grant is approved, construction must begin within eighteen months of the completion of a funding Memorandum of Understanding between the State and the Department.



OFFICE OF THE COUNTY EXECUTIVE ROCKVILLE MARYLAND 20850

Douglas M. Duncan County Executive

MEMORANDUM

March 21, 2002

TO:

Steven A. Silverman. President, Montgomery County Council

FROM:

Douglas M. Duncan. County Executive

ORIGINAL SIGNED BY BOUGLAS M. DUNCAN

SUBJECT: Maryland-National Capital Park and Planning Commission Amendment

to the FY03-08 CIP Submission

Facility Planning: Non Local Parks, No. 958776, \$330.000

I support the request from the Maryland-National Capital Park and Planning Commission (M-NCPPC) to amend their FY03-08 CIP submission to incorporate a new project in the Facility Planning: Non Local Parks project. The planning would be for a proposed Rock Creek Hiker-Biker Trail bridge over Veirs Mill Road at Aspen Hill Road.

It is my understanding that M-NCPPC will apply for Federal Transportation Enhancement Act funds in November 2003 to cover eligible construction costs for this project. and that facility planning and design must be complete to apply. M-NCPPC has stated that there is also a possibility that anticipated proceeds from the Maryland State Highway Administration acquisition of some land parcels in Rock Creek Regional Park in that area could be used to help fund this project. We are currently looking into existing restrictions on the use of land sale proceeds in order to better understand how much of such proceeds might be applied to fund this project.

The request would add \$333,000 in Current Revenue: General to the PDF -\$200,000 in FY03 and \$133,000 in FY04, and would increase the FY03 appropriation by \$333,000. However, because we do not have available Current Revenue, I can only recommend approval of this project if the Council is able to identify funding for it or if M-NCPPC is able to accommodate the project by adjusting other work in their CIP.

DMD: mt

Attachment:

M-NCPPC Amended FY03-08 CIP Request for Facility Planning: Non Local

Parks

cc: Bette McKown, M-NCPPC





February 15, 2002

The Honorable Steven A. Silverman, President Montgomery County Council 100 Maryland Avenue Rockville, Maryland 20850

Dear Mr. Silverman:

The Planning Board proposes to amend its FY03-08 CIP submission to incorporate a new project (\$333,000) in the Facility Planning: Non-Local PDF 958776 in FY03 and FY04, specifically, facility planning for a hiker-biker bridge over Veirs Mill Road to connect portions of the Rock Creek Trail.

The County Council is familiar with the history of this project:

- On February 13, 2001, the County Council adopted Resolution 14-773 pertaining to the improvement of Veirs Mill Road/Aspen Hill Road intersection. Listed among the County Council's recommendations is "accommodation of a potential Rock Creek Hiker-Biker Trail bridge over Veirs Mill Road. The Council will seek State funding for this pedestrian/bicycle bridge."
- On February 16, 2001, County Council President, Blair G. Ewing, wrote to Parker F. Williams, Administrator, State Highway Administration (SHA), that the County Council
 - "is committed to seeking State funding to construct a bridge over MD 586 for the Rock Creek Trail, which would allow pedestrians and bikers to avoid the thousands of vehicles that pass through this intersection daily. We think it appropriate that the State fund this bridge under the Access 2000 program, and we hope it can be done on a schedule commensurate with the construction of the intersection improvements, that is during 2003."
- On March 21, 2001, John D. Porcari, Secretary, Maryland Department of Transportation, wrote to County Council President, Blair G. Ewing, that "We are recommending that Montgomery County apply for the improvement as an Enhancement Project through the Executive Committee review process. . . It is

our intention to continue to coordinate with M-NCPPC and Montgomery County staff to develop a strategy to address the hiker-biker connection at Veirs Mill Road. We will also continue to investigate all funding sources available for this improvement."

On January 8, 2002, Neil Pedersen (SHA) and Department staff discussed the project. Mr. Pedersen urged the Commission to submit an application for TEA funds in November 2003.

It is likely that the federal Transportation Enhancement Act will be reauthorized in Fall 2003 making more funds available for projects such as the hiker-biker bridge over Veirs Mill Road. To be eligible for those funds, projects must be in public ownership, design must be 35 percent complete, i.e. facility planning must be complete, and design and construction must be able to begin soon after award of the grant. Grants are fifty percent of the cost for remaining design and construction.

The Planning Board proposes to facility plan the hiker-biker bridge over Veirs Mill Road to connect portions of the Rock Creek Trail so that the project will be eligible for Transportation Enhancement Act funds by Fall 2003. We will be eligible to apply for TEA funds for this project if we can begin facility planning in FY03. The need for the project is described in part by Attachment 1, a letter from the Aspen Hill Civic Association to the County Council dated November 24, 2000.

The PDF proposes to fund facility planning with County Current Receipts in FY03 and FY04 so that facility planning can be completed in FY04 and an application filed for TEA funds in November 2002 (FY04). The Planning Board seeks these funds in addition to the level-of-effort funding already proposed in the FY03-08 program. FY02 facility planning projects in progress and expected to carry-over into FY03 are the Rock Creek Maintenance Yard renovation, Woodlawn Park Police Special Operations Program of Requirements, and Black Hills Regional Park hard surface trail renovation. The new FY03 appropriation funds further work on the Woodlawn Park Police Special Operations facility plan, a facility plan for a skateboard park at South Germantown Recreational Park, and a facility plan for a dog park at a site to be determined. New FY04 appropriation funds facility plans for the Magruder Branch Hard Surface Trail extension Capital Crescent Trail connector to Rock Creek Trail, and Wheaton hard surface trail extension to Randolph Road. Our original appropriation request for FY03 was \$135,000 and for FY04, \$145,000. The sum of these two requests (\$280,000) would not be sufficient to meet the \$333,000 needed for the hiker-biker bridge over Veirs Mill Road to connect portions of the Rock Creek Trail. The Commission cannot absorb this project in our current level-of-effort expenditure schedule because it would require elimination of part of our current FY02 program and all of the FY03 and FY04 programs proposed by the Planning Board prior to consideration of the hiker-biker bridge over Veirs Mill Road.

The Maryland State Highway Administration proposes to acquire 3.3 acres from Rock Creek Regional Park as part of its intersection improvement at Veirs Mill Road and Aspen Hill Roads. The acquisition is likely to occur in Fall 2002 (FY03). The estimated

cost of the acquisition is \$333,000. The acquisition may involve four parcels—some owned by Montgomery County and some by the Commission. It is possible that some or all of the proceeds from the sale of the property to the State could be earmarked for a portion of the local share of the project costs. Staff will pursue the viability of this option as the SHA project progresses.

Please note that this request is shown in the Facility Planning: Non-Local PDF. The text of this PDF has been changed slightly from our original November 1, 2001 submission. The Planning Board's acceptance of the County Executive's reduction to the Trails: Hard Surface Design and Construction PDF involved shifting two projects—Magruder Branch Trail and the Capital Crescent Trail connector to Rock Creek Trail -- back into the facility planning PDF so that facility plans could be finalized.

Yours truly,

Arthur Holmes, Jr. Chairman



ASPEN HICL CIVIC ASSOCIA

November 24, 2000

30 NOV 28

Montgomery County Council Mr. Michael L. Subin, Council President 100 Maryland Avenue Rockville, MD 20850

034820



RE: Resolution regarding SHA Intersection Improvements,

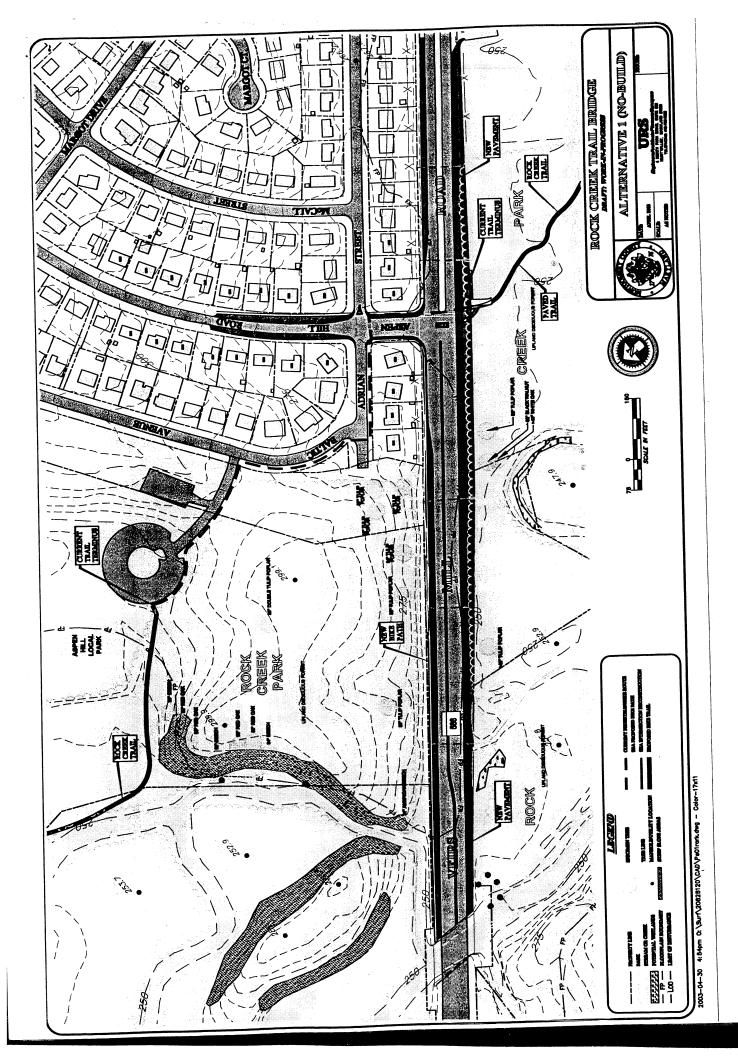
MD 586 (Veirs Mill Road) and Aspen Hill Road

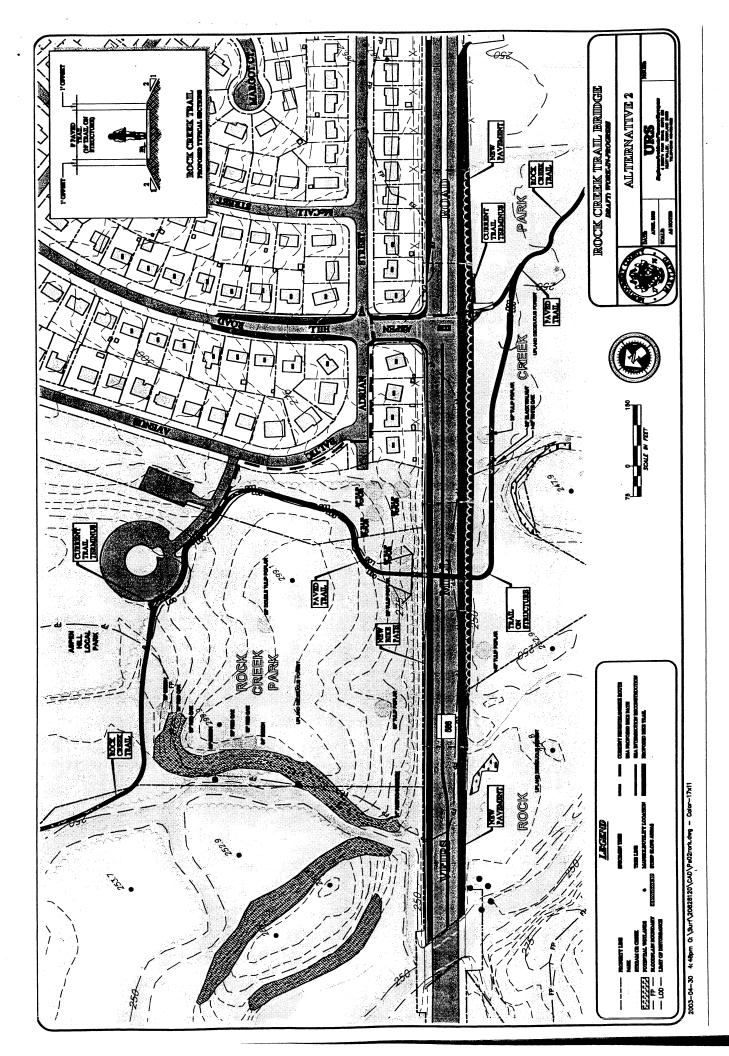
Dear Council President Subin:

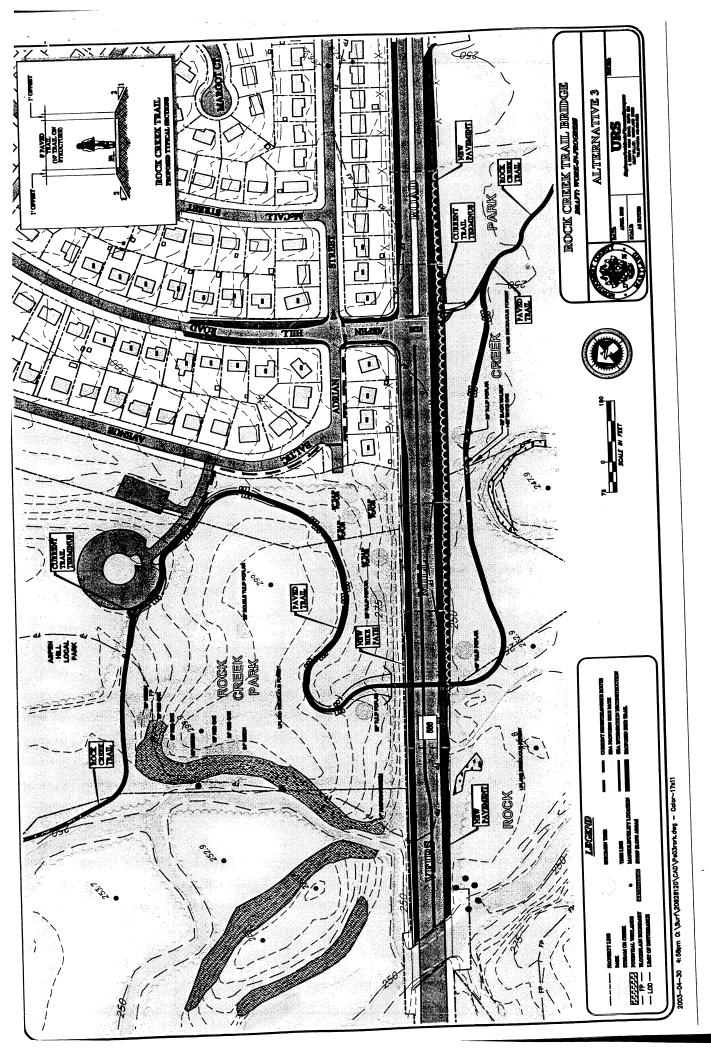
As President of the Aspen Hill Civic Association, I would like to express the concerns of our Association regarding the intersection improvements at Aspen Hill Road and Veirs Mill Road (MD 586). The boundaries of the Aspen Hill Civic Association include all of Aspen Hill Road and is bounded by Veirs Mill Road (MD 586) from Turkey Branch Parkway to the Rock Creek Stream. The Board of Directors and our members are well aware of the accidents, backups, and all around headaches that result from the amount of traffic driving through this intersection. I am sure you are aware that Aspen Hill Road is a major cross county

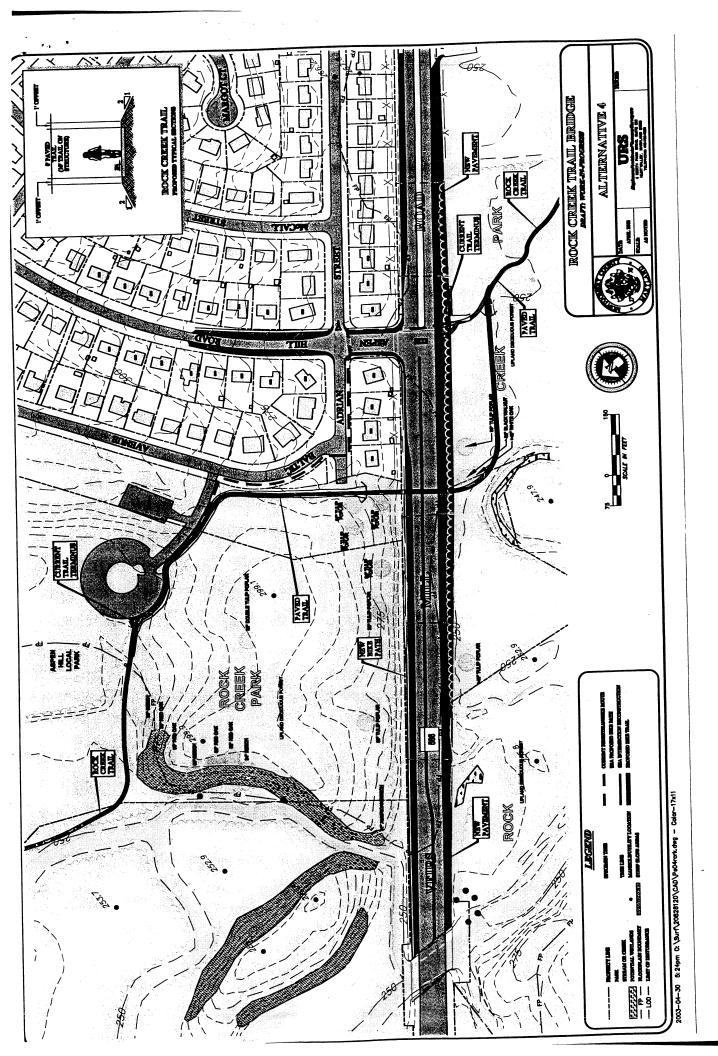
The Maryland State High Administration and Montgomery County Department of Park and Planning have been extremely generous in making themselves available to the Aspen Hill Civic Association to explain the two options for improvement of this intersection. The Aspen Hill Civic Association is very concerned because there is a large volume of bus, auto, bike, and pedestrian traffic in a very complicated intersection in limited space. Part of the Rock Creek Hiker Biker trail comes out of Aspen Hill Community Park, on to Baltic Avenue and Adrian Street, across Aspen Hill Road and then across Veirs Mill Road. This trail is highly utilized. Many families with small children use this trail in the evenings and on the weekends. Many employees from the Parklawn Drive area use this trail during workdays. This trail is used for marathons during workdays and weekends. The large volume and speed of traffic on Aspen Hill Road and Veirs Mill Road is a constant all day long, and of course, reaches a peak at rush hour. Careful attention must be made in making this intersection safe for all pedestrians, hikers, and bikers.

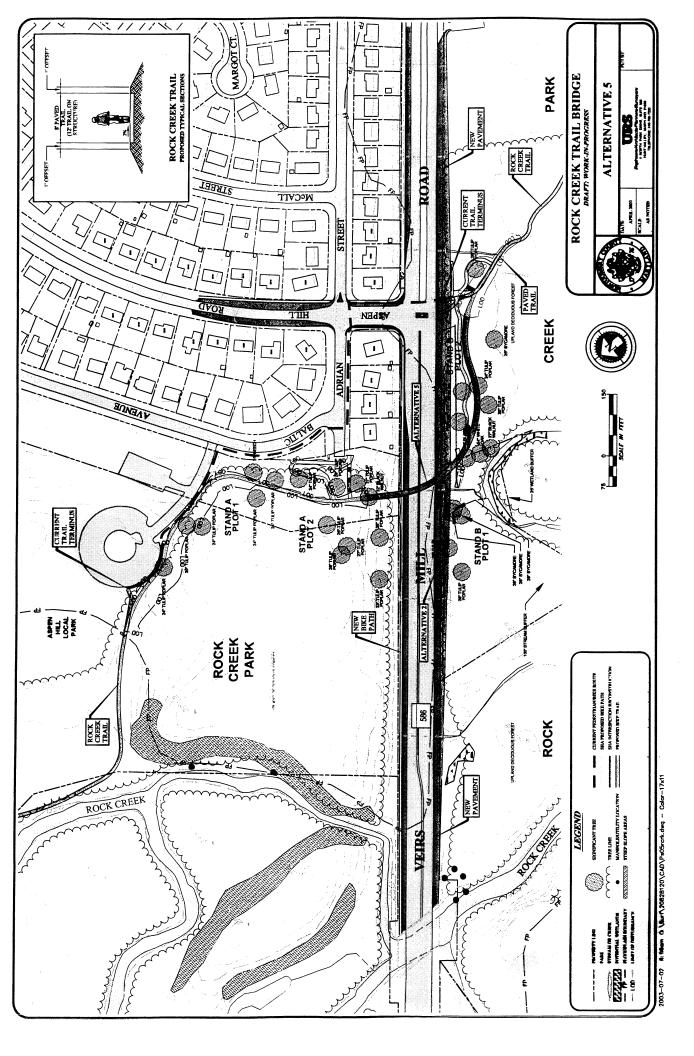
At the Montgomery County Planning Board Public Hearing held Thursday, November 16, 2000, Chairman Hussmann expressed his concern for pedestrian safety at this intersection. It was suggested that the State procure funds for a pedestrian bridge to be built over Veirs Mill Road taking the Rock Creek Hiker Biker trail away from this extremely busy intersection. The Aspen Hill Civic Association highly encourages this proposal.









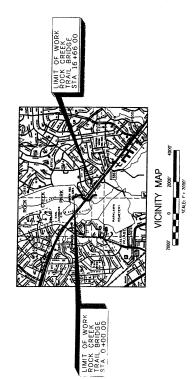


INDEX OF SHEETS

- TYPICAL SECTIONS TITLE SHEET
 - TRAIL PLANS
- TRAIL PROFILES
- BRIDGE GENERAL PLAN BRIDGE ELEVATION
- BRIDGE TYPICAL SECTION
- BRIDGE TYPICAL SUBSTRUCTURE DETAILS

K CREEK TRAIL BRIDGE AND TRAIL APPROACHES DEPARTMENT OF PUBLIC WORKS MONTGOMERY COUNTY AND TRANSPORTATION ROCK CREEK

STATION 0+00 TO STATION 16+66 =0.32 MILES LENGTH



NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

Administrative Requirement

Sediment Control Technical Requirements:

Stormwater Management:

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

SECUMENT CONTROL PERMIT NO.

Date.

Reviewed

Date Date

Reviewed Approved

MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION MAINTENANCE CERTIFICATION

NCDPS APPROVAL OF THIS PLAN WILL EXCHED ONE YEAR FROW THE DATE OF APPROVAL IF THE PROJECT HIS STREET WILLSES THE PERMIT HAS BEEN EXTRINSTON.

IHEREBY CERTIFY THAT THE MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSFORTATION WILL ASSUME MANTERANCE RESPONSBILLTES FOR ALL STORNWATER MANAGEMENT FACULTIES WITHIN THE MCDOPWR.T STREET EXTRAODE RIGHT OF WAY AND SHOWN HEREON IN ACCORDANCE WITH THE "MEGNARADUM OF ONDERSTANDING" BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF PERMITTING STRONGES AND EXECUTIVE REGULATIONS STORN THE STORNMANT REASON, FULNE MERONAL PROPROMENTS TO THE MONDWAY ARE PLANNED THAT WOULD IMPACT OF PROPRETIES VICTORITY ACLUTICE NICLIDED HEREN, THIS DEPARTMENT WILL NOTIFE THE PROPROMENT OF PERMITTING STRUNGES DISBURT THE PLANNING OR EARLY DESIGN STACE FOR SUCH MARROYEMENT.

OWNER / DEVELOPER'S CERTIFICATION

I/WE HERBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE ONDE PURSUANT TO THEY PLAN AND THAT RESPONSELE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TO ANNING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS. AND SPECHÉZION FOR SOIL BEROSION AND SECRIFOCH. MONTGOMERY COUNTY DEPARTMENT OF PERWITING SERVICES EXCLUTIVE REGULATIONS 5-90 AND 38-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBIC WORKS AND TRANSPORTATION 'STORM DRAIN 'DESIGN CRITERIA' DATED AUGUST, 1988

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SIGN ENGINEER SIGNATURE

PRINTED NAME AND TITLE

REGISTRATION NUMBER

OWNER / PERMIT APPLICANT

CONTACT:
PARKSIDE HEADDUARTERS
9500 BURNETT AVENUE, ROOM BIOTT
SILVER SPRING, MARYLAND 20901
(301) 495-2535

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- FOR TYPES OF STORM DRAIN STRUCTURES, REFER TO THE MONTOOMER'S COUNTY OF PUBLIC WORKS AND TRANSPORTATION BOOK OF STANDARDS FOR HIGHWAY AND INC STRUCTURES, UNLESS OTHERWISE NOTED.
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 - WHERE CURB AND GUTTER ENDS ARE EXPOSED, PROVIDE A POWN SECTION AT 24 SLOPE.

NOT FOR CONSTRUCTION

SHOWN ARE APPROXIMATE ALL RIGHT OF WAY LIMITS

30% SUBMITTAL JULY 17, 2003

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A-3, SAND [[]] A-4.50.T.

SOILS LEGEND

A-7. CLAY

RECOUNENDED FOR APPROVAL Chief, Design Section

> PLAN LOCATION OF STORMWATER WANAGUENT BORN P.C.F. POUNDS PER CURIC FOOT

PLAN LOCATION OF SOIL BORINGS

N.P. NON-PLASTIC P.L. PLASTICITY BADEX

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M.D.D. & O.M.C. PER A.A.S.H.T.O. DESIGNATION T-180 METHOD C

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DECOMPOSED ROCK

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MONTGOMERY COUNTY
DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
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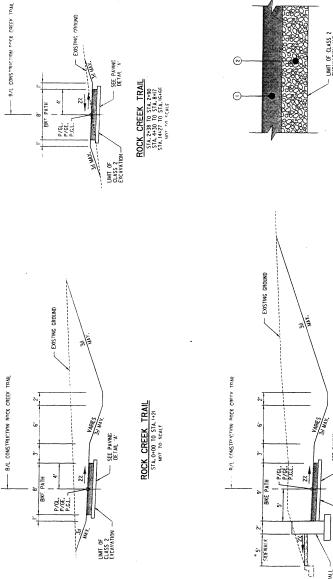
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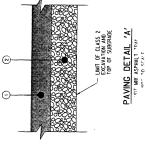
RORING TARGETS AND PROFILES SCALES HORIZONTAL - NONE VERTICAL - 1'=10"

ROCK CREEK TRAIL BRIDG

SCALE , AS SHOWN Project No: 50933



SEE PAVING DETAIL A

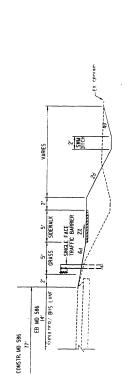


LEGEND

STA.1+21 TO STA, 2+38 STA, 2+91 TO STA, 4+37 NOT TO CAME

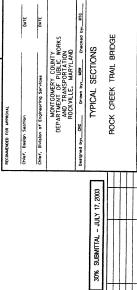
SED SIDEWALK LOCATED STALLED IN STALPS

- (1) 3'HOT MIX ASPHALT SUPERPAVE 12.5 mm FOR SLIRFACE -PGT0-22, LEVEL 2 PROVIDED IN 2 LIFTS (2) 4' BASE COURSE USING GRADED AGGREGATE



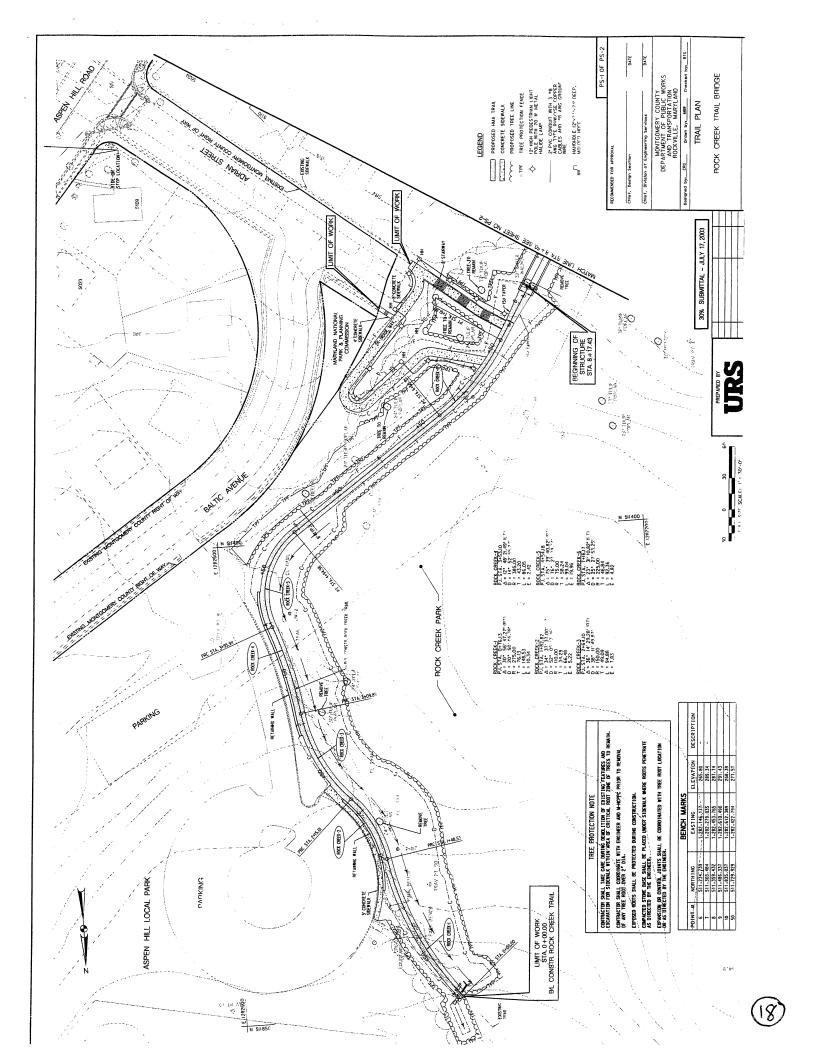
MD 586 SIDEWALK AND SWM DITCH STA. 1994-40 TO STA. 2024-0 NOT TO SCALE

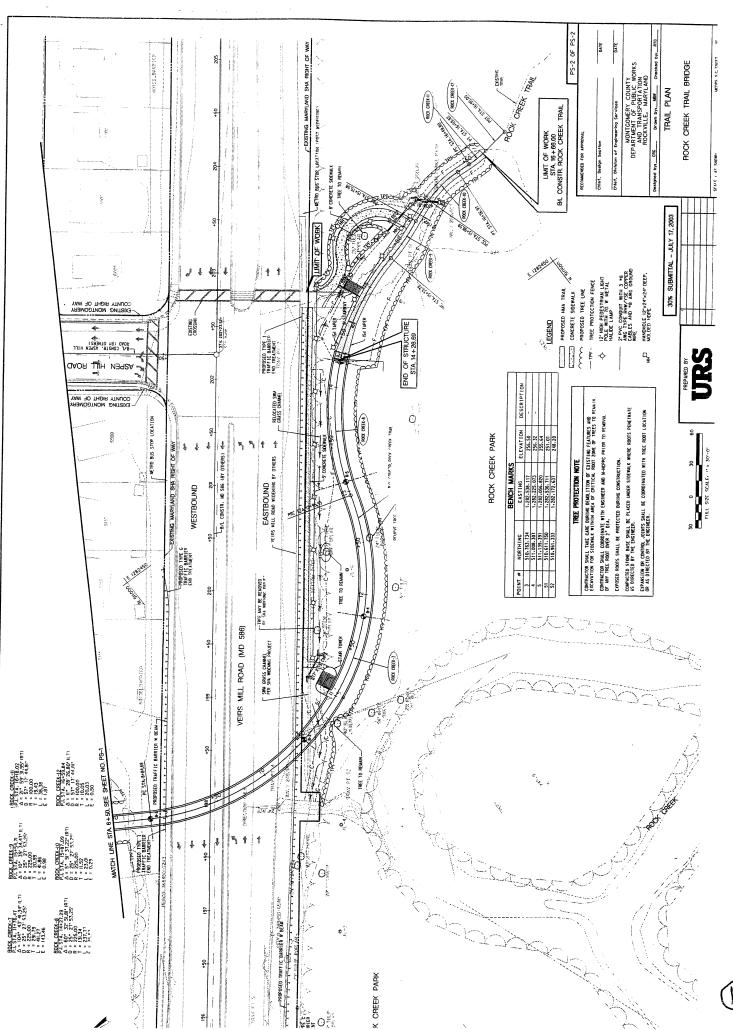


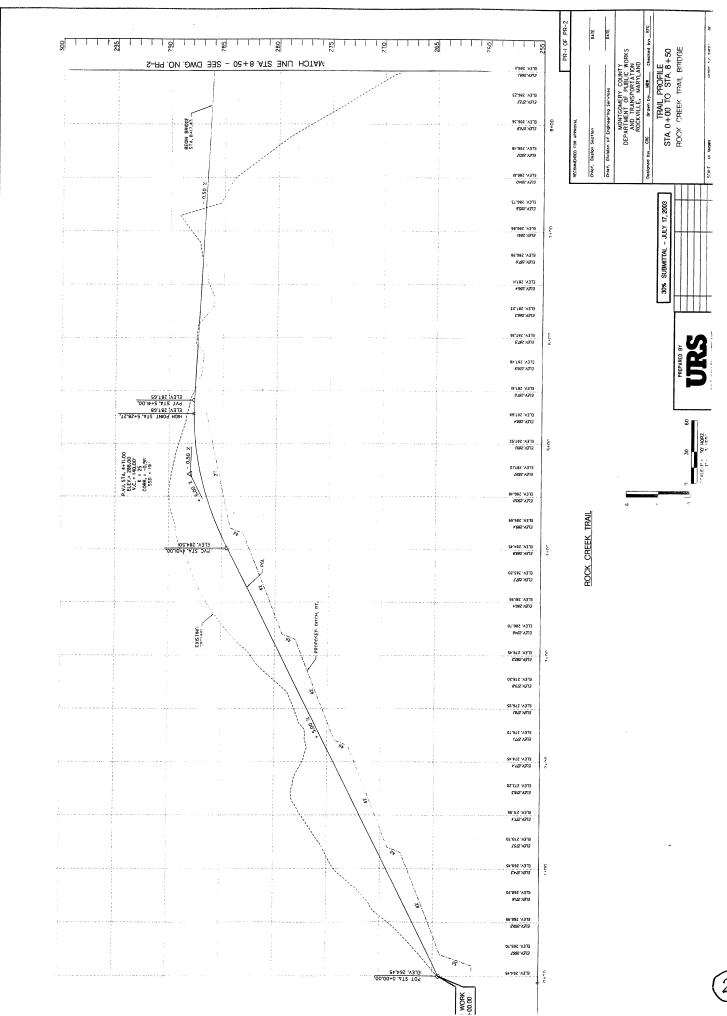


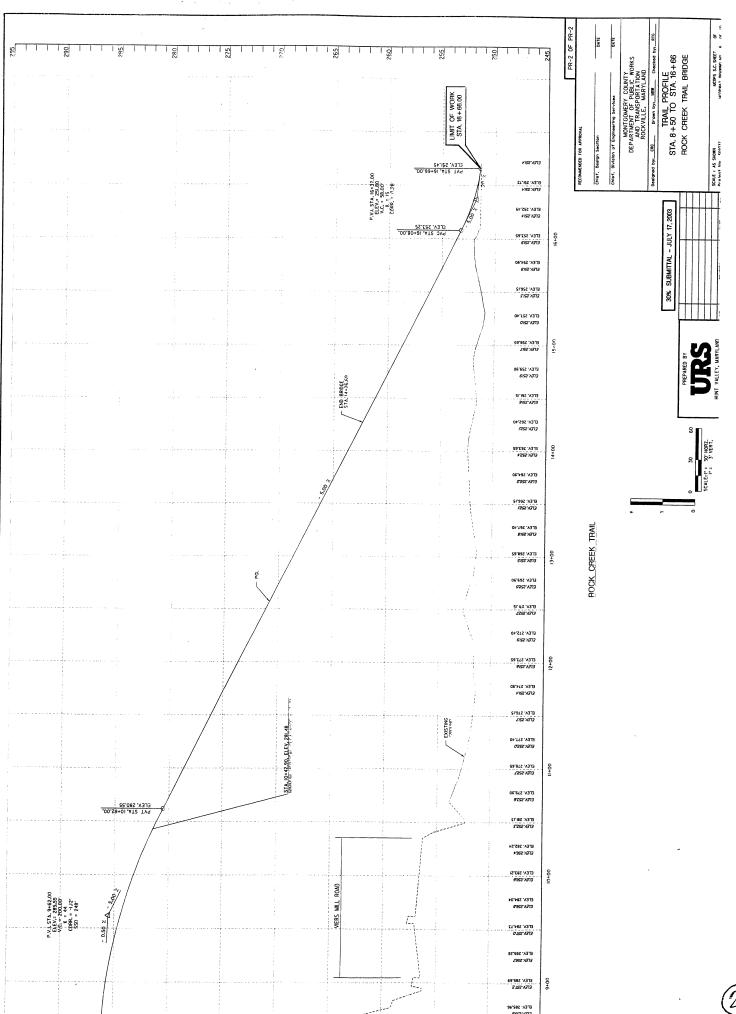
TS-1 OF TS-1

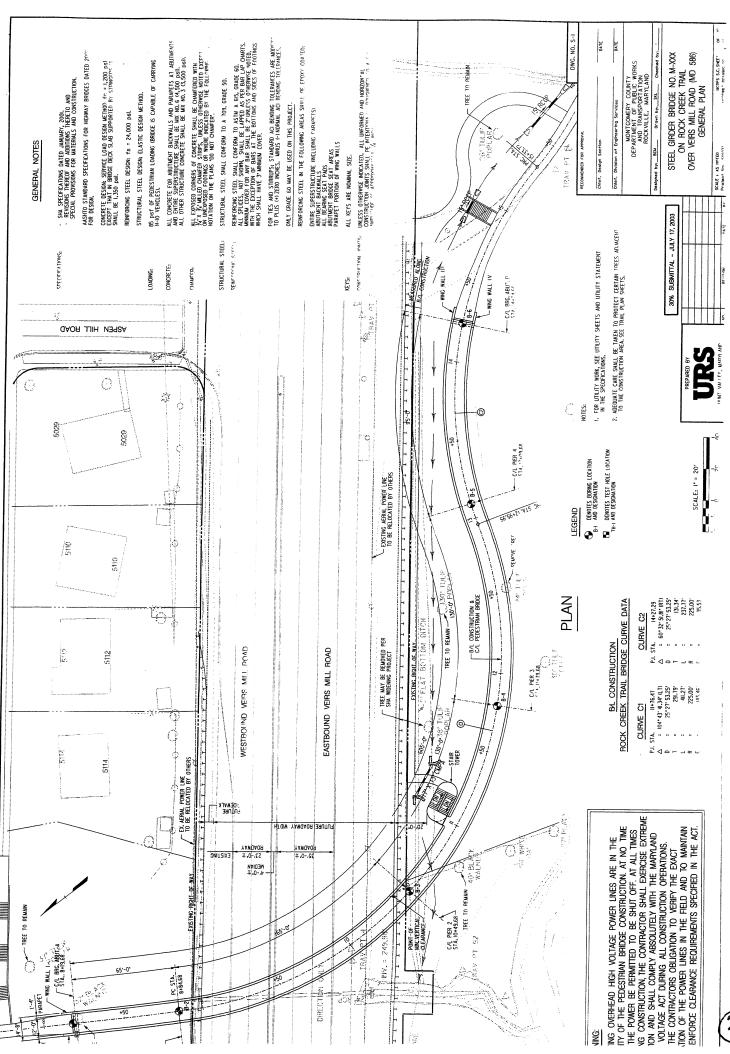
(7)

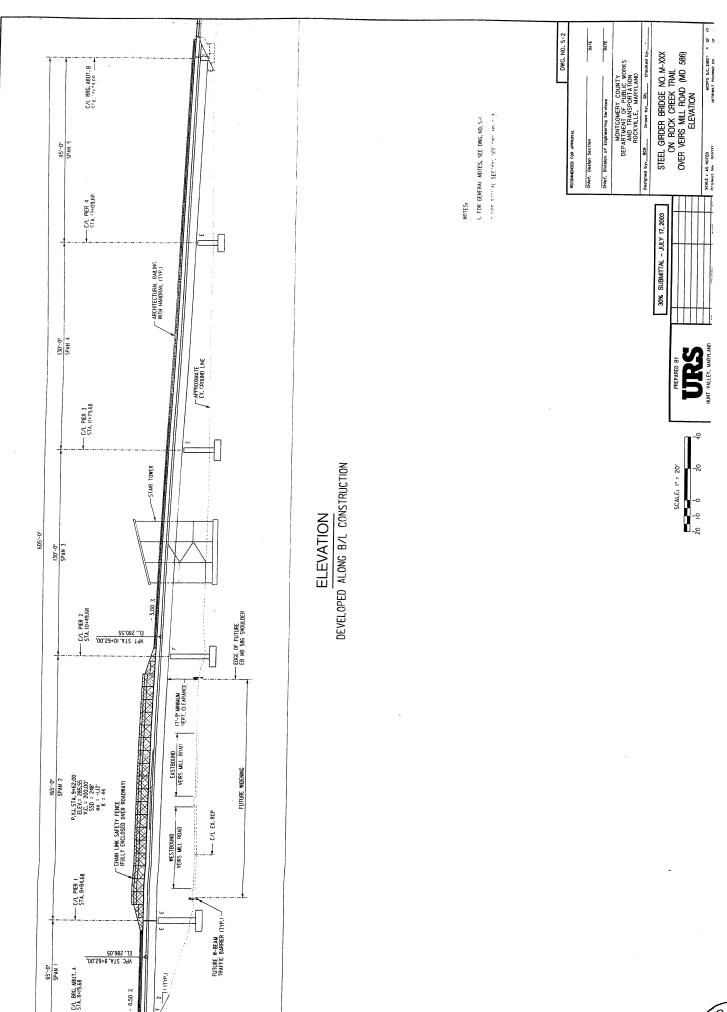












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