

SECTION 200

I-95, North of MD 43 to North of MD 22

Focus Group #4 May 17, 2007





- Roles and Responsibilities of the Focus Group
- Section 200: Purpose & Need
- Schedule for Other Improvements
- I-95 Growth Patterns and Projections
- Criteria Utilized in Developing Concepts
- Interchange Options

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Roles and Responsibilities of the Section 200 Focus Group

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- Review the progress of the study and provide input to the Planning Team on information gathered during the study
- Relay information to and from the representative communities and agencies
- Inform the Planning Team of community issues and concerns



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Purpose: The purpose of the proposed action is to address capacity and safety needs on Section 200 and thereby improve access, mobility, and safety for local, regional, and inter-regional traffic, including passenger, freight, and transit vehicles.

Need: The proposed action is intended to address the following capacity and safety needs on Section 200.





Schedule for Other Improvements

MD 152 Park & Ride Expansion

MD 24/MD 924 Interchange



MD 152 Park & Ride Expansion

- Contractor has been given Notice To Proceed
- The capacity will increase from 205 to 316 spaces
- The southern lot will be expanded and resurfaced
- The northern lot will be resurfaced with new striping
- Construction should be completed in approximately 4 months



I-95/MD 24/MD 924 Improvements



First Phase Toward Ultimate Section 200 Improvements

Section 200

Advertise for Bids in March 2007

 Notice to Proceed for Construction on June 30, 2007

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Construction Completed in Fall 2009



I-95 Growth Patterns and Projections







Users of I-95

- Daily Commuter
- Local Trips
- Regional/East Coast Movement
- Trucking Freight





MdTA is obligated to utilize the adopted Baltimore Metropolitan Council (BMC) regional traffic model.



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Average Daily Traffic					
(Prior to BRAC Allocation)					
	1990	2000	2005	2030	
MD 43 to MD 152	120,000	160,000	165,000	230,000	
MD 152 to MD 24	N/A	145,000	151,000	215,000	
MD 24 to MD 543	72,000	114,000	120,000	180,000	
MD 543 to MD 22	N/A	96,000	101,000	148,000	
MD 22 to MD 155	62,000	83,000	89,000	131,000	



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Forecasted Growth

from 2005 to 2030

(Prior to BRAC Allocation)

Section of I-95	Percentage Change
MD 43 to MD 152	40%
MD 152 to MD 24	42%
MD 24 to MD 543	50%
MD 543 to MD 22	47%
MD 22 to MD 155	47%



BMC Model Input for				
Jobs* by BRAC				
County	Phase 1 2007-2011	Phase 2 2012-2015	Phase 3 2016-2020	Total
Baltimore	839	2,678	381	3,898
Cecil	375	1,297	930	2,602
Harford	9,590	1,898	1,224	12,712
Entire State of Maryland	19,273	20,893	5,066	45,232

*Jobs include Direct, Embedded, Indirect, Induced

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BMC Model Input for				
Households by BRAC				
County	Phase 1 2007-2011	Phase 2 2012-2015	Phase 3 2016-2020	Total
Baltimore	410	3,243	0	3,653
Cecil	324	1,673	0	1,997
Harford	1,328	5,205	0	6,533
Entire Baltimore Region	3,525	21,787	0	25,312





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Preliminary Average Daily Traffic Differences

on I-95 Between

2035 Volumes with BRAC and

2035 Volumes without BRAC

MD 43 to MD 152	Minor Change
MD 152 to MD 24	Minor Change
MD 24 to MD 543	+ 10,000
MD 543 to MD 22	+ 20,000
MD 22 to MD 155	+ 15,000





While BRAC has a significant influence on the Baltimore/Harford/Cecil Region, the impact will be far greater on the local highways and roadways and less on I-95.





- Traffic Operations and Safety
- Bicycle/Pedestrian Operations and Safety
- Engineering Regulations
- Resources

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Traffic Operations and Safety

- Develop Peak Hour Traffic Volumes for ALL Movements
- Calculate Levels of Service
 - Merging and Diverging
 - Weaving

- Signalized Intersections
- Queueing
- Evaluate Crash Information



Bicycle/Pedestrian Operations and Safety

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- Bicycles and Pedestrians are prohibited by law on I-95.
- Bicycle and Pedestrian access across I-95 is important as it may separate housing from employment centers.
- MdTA is working to ensure that bicycle and pedestrian access across I-95 at the interchanges as well as the overpasses will meet or exceed policies established in the Annotated Code of Maryland, American Disabilities Act guidelines, and AASHTO guidelines.

Bicycle and Pedestrian Operations and Safety

Interchanges providing access across I-95 will provide:

- 12' travel lanes
- 8' shoulders

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- 5' sidewalks on both sides
- Pedestrian/bicycle crossing improvements
 - Compact intersection designs
 - Signalization were feasible
 - Near minimum turning designs on ramps
- Proposed Overpass Features
 - 15' wide shared roadway lanes
 - 5' sidewalks on both sides



Bicycle Considerations at MD 24 Interchange



Section

- Woodsdale Road Option
 - Shared use path between MD24 and Waldon Road
 - Shared roadway along Waldon Road
 - Requires 14' wide shared use bridge over I-95
 - Shoulder bike lanes on Woodsdale Road
 - Approx.1500' longer than MD 24
- Winter's Run Option
 - Shoulder bike lane along MD 7
 - Shared use path between MD 7 and Tollgate Road

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- Crosses under I-95
- Approx. 6500' longer than MD 24

Engineering Regulations

- Designs are predominantly based on AASHTO A Policy on Geometric Design of Highways and Streets
 - These guidelines are intended to provide operational efficiency, comfort, safety and convenience for the motorist while considering impacts and costs.
 - Design guidance is provided for:
 - Lane And Shoulder Widths
 - Design Speeds Based On Facility Type
 - Roadway Curves And Grades
 - Entrance, Exit And Weave Lane Lengths
 - Sight Distances

- Traffic Control Signing, Pavement Markings & Signals
- Bicycle And Pedestrian Accommodations





Resources

- Natural Environmental
- Historic/Archaeological
- Parks and Cultural Facilities
- Noise
- Air
- Properties and Buildings





No-Build Alternate

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- General Purpose Lane Alternate
- Express Toll Lane Alternate



MD 152 No Build Option

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MD 152 Build Options

<u>GPL Options</u> Option 1 Option 4

ETL Options Option 1A Option 4A Option 4B



MD 152 GPL Option 1

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MD 152 GPL Option 4

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MD 152 ETL Option 1A







MD 152 ETL Option 4A







MD 152 ETL Option 4B





MD 24 No Build Option

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MD 24 Build Options

<u>GPL Options</u> Option 2 ETL Options Option 2A



I-95/MD 24/MD 924 Improvements



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MD 24 GPL Option 2

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MD 24 ETL Option 2A

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MD 543 No Build Option

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MD 543 Build Options

<u>GPL Options</u> Option 1 Option 7 ETL Options Option 6A Option 7A



MD 543 GPL Option 1

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MD 543 GPL Option 7

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MD 543 ETL Option 6A

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SECTION 200

MD 543 ETL Option 7A

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Maryland House Travel Plaza

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MD 22 No Build Option

MD 22 GPL Option 1

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\checkmark	Agency Scoping Meeting	November 15, 2005
\checkmark	Environmental Data Collection	Winter 2005 to Fall 2006
\checkmark	Focus Group Meeting #1	April 5, 2006
\checkmark	Focus Group Meeting #2	May 24, 2006
\checkmark	Public Workshop	June 22, 2006
\checkmark	Focus Group Meeting #3	April 26, 2007
	I-95 Open Houses	June 26 & 28, 2007
	Final Technical Reports	Spring/Summer 2007
	Alternates Retained for Detailed Study	Summer 2007
	Public Hearing	Fall 2007
	Final Environmental Document	Spring 2008
	Final Decision Document	Fall 2008
	Design/Construction	To Be Determined

June Open House

Dates: June 26th & 28th, 2007 Locations: Baltimore County: To Be Determined Harford County: Old Post Road Elementary School

Information Presented During the Open House:

- I-95 Express Toll Lanes Construction
- I-95/MD 24/MD 924 Improvements Construction
- Section 200 Planning Study Detailed Alternates
- Travel Plaza Improvements

(Maryland House and Chesapeake House)

Hatem Bridge Redecking

E-ZPass

How Can You Stay Informed?

Section 200 Traffic Studies

Safety Needs

Section 200

New Traffic Model

2000 Versus 2005

Purpose of Study:

- In association with the Section 200 planning study, the MdTA, in coordination with MTA & SHA, initiated a study to determine the needed improvements to the park & ride facilities serving the I-95 from MD 43 to MD 22. This study will:
 - Evaluate Existing Conditions & Usage Trends
 - Identify Needed Improvements
 - Identify Potential Sites/Property Search
 - Preliminary Site Layouts
 - Preliminary Cost

Methodology

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- Long Range Plans (Including BRAC)
- Associated Traffic Studies
- Proposed Development
- Trend Analysis for 10 Years
- Existing Conditions
- Inter-Modal Accommodations for Transit
- Travel Demand

MD 43:

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Findings

- No Impacts to Existing Site
- MTA Maintained Facility
- Available Spaces 755
- Not at Full Capacity

MD 24:

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Findings

- Desire to Maintain Existing Site to the South
- Develop a New Site to the North
- Desire for Transit Service
 - MTA's Top Priority
- Statistics:

	Existing Spaces	Spacing Goal
Current Site	53	53
New Northern Site	-	175-200

MD 543 & MD 22:

Findings

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- MD 543
 - No Impacts to Existing Site
 - Usage Trends:

Existing Spaces	2006 Utilization	Projected Utilization	
133	9	27	

MD 22

- No Impacts to Existing Site
- Usage Trends:

Existing Spaces	2006 Utilization	Projected Utilization	
64	10	32	

Police / EMS / Maintenance Access

- Identify Existing Coverage Limits
- Identify Access Modifications
 - All existing median openings will be closed
 - Barrier separated ETLs

- Identify Potential Access Points
 - Interchanges
 - Overpass Crossovers
 - Barrier openings
- Share Alternates with Responders

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Overpass Crossovers

- Connect To Overpassing Roadway
- Allow Change In Direction Along I-95
- Provide Additional Point Of Access to I-95
- Automatic Gates Restrict Unauthorized Access
 - Card Or Siren Activated

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Environmental Update

- Identification of Resources
 - Natural Environmental
 - Cultural and Historic
 - Social and Economic
 - Hazardous Materials
 - Noise and Air Quality
- Consideration during Alternates Analysis

Anticipated Construction Activities

Pavement Resurfacing

- Full Depth Pavement Construction
- New Signing and Marking
- New Storm Drain Systems
- New Stormwater Management Facilities
- New Bridge Structures
- New Retaining Wall Structures
- New Interchange Lighting
- Utility Relocations

General Purpose Lane Alternate

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Typical Roadway Section – New Forge Road to MD 24

Typical Roadway Section – MD 24 to MD 543

