George Washington Memorial Parkway Action Plan			
Action	Superintendent	Draft report update as of:	
Pedestrian Road Safety Audit - Arlington Memorial Circle	Jon James, Acting Superintendent	6/6/2012	

ACTION PLAN

Statement of Objective/Goals:

Make short-term traffic and safety improvements that are aimed at enhancing the overall safety at the Arlington Memorial Circle, while protecting our historic sites, cultural landscapes, and viewsheds. Proposed actions are based on the November 2011 Pedestrian Road Safety Audit recommendations.



Recommendation 1: Signage/markings		
Strategy	Tasks	Status
Replace / install needed	Install pedestrian warning signs (W11-1) with a supplemental	
signage and stripping.	arrow plaque (W16-7P) on both sides of the roadway at each	☐ Completed
	crosswalk. These signs should have black symbols on a fluorescent	
	yellow-green background to improve sign visibility.	
	2. Install advanced pedestrian warning (W11-1) or bicycle /	□ Underway
	pedestrian (W11-15) signs with a supplement sign plaque reading	☐ Completed
	'AHEAD) on all approach roadways that have crosswalks on	
	fluorescent yellow-green backgrounds to improve sign visibility.	
	For samples of advance warning.	
	3. Improve signing retro reflectivity for all brown recreational,	□ Underway
	informational and cultural interest signing in this area. See	☐ Completed
	Appendix #8 for 2011 Traffic Sign Retro reflective Sheeting	
	Identification Guide.	
	4. Install post-mounted, perhaps on an Arlington Bridge light pole,	□ Underway
	route guidance signs (black letters / symbols on white background)	☐ Completed
	to supplement recommended in-pavement guidance.	
	5. Install in-pavement lane guidance in advance of decision points	□ Underway
	that assist drivers in selecting the appropriate travel lane for their	☐ Completed
	desired destination(s).	
	Uther Tasks:	
	Modify, if applicable, current brown guidance signs by reducing, or	Completed
	simplifying destination descriptions and introduce the use of	
	directional arrows and symbols to allow interpretation by all drivers	
	in a minimal amount of time.	

Notes: Sign design approved through compliance. Pedestrian signs acquired and scheduled to be installed by 6/30/2012. Other signs to be install pending UNICOR sign production. Production projected by fall 2012.

Recommendation 2: Sight distance			
Strategy	Tasks	Status	
Address sight distances to allow	At Crosswalk #6, reduce curb radii of the westbound lanes	Underway	
for early warnings.	exiting the Arlington Memorial Bridge to assist in slowing, or	☐ Completed	
	calming the traffic flow. Reducing the curb radii will enhance	Task #1 Requires an	
	the recognition and visibility for both pedestrians and drivers	Environment Impact	
	and reduce the length of the crossing.	Statement (EIS)	
	2. Install advance pedestrian / shared warning signs for	☑ Underway	
	crosswalk #1 to alert drivers of a pedestrian / bicyclist	☐ Completed	
	presence.		

Notes: Task #1 NPS staff have conducted an assessment on crosswalk #6 curb and has consulted with Federal High Way Administration (FHWA). This project will require an EIS.

National Park Service WORKING DRAFT updated as of 6/6/12

Recommendation 3: Conflicting movements			
Strategy	Tasks	Status	
Correct pavement marking to help	Install mini-skips to delineate areas where lane changing,		
clarify driver lanes.	merging and diverging are allowed.	☐ Completed	
	Install in-pavement lane guidance in advance of decision		
	points that assist drivers in selecting the appropriate travel	☐ Completed	
	lane for their desired destination(s). Modify current signage by		
	reducing or simplifying destination descriptions and		
	introducing the use of directional arrows and symbols to allow		
	interpretation by all drivers in a minimal amount of time.		

Notes: Chief of Maintenance and Park engineer visited site on March 24, 2012. Team determined that the trial and cross walk should be re-aligned due to the cross walks close proximity to this mixing point. Proposal was presented to FHWA. FHWA agreed. Proposed project is in compliance. Once approved by compliance team the re-alignment project will be performed with in-house staff.

Recommendation 4: Disoriented Users		
Strategy	Tasks	Status
Install clearer directional controls	Use EXIT gore signs (E5-1a) with directional arrows and	Underway
	symbols, when applicable, in advance of exit lanes and	☐ Completed
	ramps.	
	Install road name signs to identify roadways.	☑ Underway
		Completed
	3. Install trail guide signs.	☐ Underway☐ Completed
	Install weatherproof trail maps.	Underway
	1. motan vocatiorproof train maps.	Completed
	5. Align YIELD signs with triangular yield pavement	☑ Underway
	markings. Install YIELD signs on the right-hand side of the	☐ Completed
	approach.	
	6. Install Raised Pavement Markers (RPM's) to improve the	Underway
	visibility of roadway and lane alignments and merge/diverge	☐ Completed
	areas, especially at twilight and at night. Consideration	
	should be given to utilizing snowplow able and/or Light	
	Emitting Diode (LED) RPMs	

Notes: Study was performed during daylight LED questionable. Trail signs signs approved by compliance team are being formatted by Harpers Ferry group. New signs have been approved and are now in production with UNICOR.

Recommendation 5: Failure to yield to pedestrians and bikes		
Strategy	Tasks	Status
Alert drivers of pedestrian and bikers presents.	Install Rectangular Rapid Flash Beacons (RRFB) to increase driver awareness of a pedestrian at crosswalk #5. The RRFB can either be user actuated, or triggered through an interruption of a small magnetic field amber LED strobetype light that supplements warning signs and is only activated when prompted by either method. RRFBs have been shown to introduce or increase yielding behavior of drivers at crosswalks when used in coordination or combination with standard pedestrian crossing warning signs and pavement markings.	☐ Underway ☐ Completed
	Install pedestrian level lighting at crosswalks. Install SHARE THE ROAD sign (W16-1P) plaques to alert drivers to the presence of pedestrians and bicyclist.	Underway Completed Underway Completed

Notes: Flashing lights recommendations will be explored by compliance team to assess compliance pathway. No bikes on parkway - Share the road no action. Fine Arts committee has to be consulted on LED strobe-type lighting.

Recommendation 6: Speeding		
Strategy	Tasks	Status
Implement / install control devices to slow driver speed.	Consideration given to providing more daytime speed enforcement	☐ Underway ☐ Completed
	2. Install in-lane, or transverse rumble strips in advance of	☑ Underway
	crosswalks 2, 4 and 5. Rumble strips can function as traffic	☐ Completed
	calming devices as their presence typically results in vehicles	
	slowing down when they are traversed.	
	3. Install raised pavement pedestrian crossings. This type of	☐ Underway
	pedestrian crossing functions much like speed tables in that	☐ Completed
	they encourage motorists to slow down and/or yield. Raised	
	crossings are designed for safe vehicular travel at speeds of	
	approximately 25 mph, which would be in line with the posted	
	speed limit for vehicles travelling through the Circle area. This	
	improvement may be used at crossing #2.	

Notes: Park Superintendent will consult United States Park Police (USPP) about speed enforcement capabilities in area. Parks needs to review raised pedistrian crosswalk. Possible conflict with traffic flow. Rumble strips material to be place thru cross walks in acquisition phase.

Recommendation 7: Social paths indicate need for pedestrian connectivity			
Strategy	Tasks	Status	
Discourage use of unofficial trails	Install trail guide signs on existing hard-surface trails to	☑ Underway	
Discourage use of unofficial trails	assist in guiding users of the trails and to, hopefully, prevent	☐ Completed	
	their use of the severely worn social paths.		
	Areas of the social paths should be landscaped with	☐ Underway	
	appropriate vegetation that serves to discourage the use of		
	these unmarked and unofficial trails. The goal is to use		
	appropriate vegetation as a physical barrier that increases the		
	difficulty for pedestrians, joggers and bicyclist to access and		
	use these worn social paths.		

Notes: Social trails repaired / rehab. Grass has been restored to area. Area Safety concerns resolved. Some pedestrians, joggers, and bicyclists continue to use these unmarked unofficial trials despite the Parks attempt to discourage this unsafe behavior.

Recommendation 8: Traffic Flow Changes			
Strategy	Tasks	Status	
A. Greater attempt of diversion of	Implement signing and in-pavement guidance to direct	□ Underway □	
trough traffic ramp	traffic bound for I-66 to use the access-controlled portion of	☐ Completed	
	the GWMP I and US 50 bound traffic to use Memorial		
	Boulevard.		
	Decreased traffic volumes that utilize the eastern portion	☐ Underway	
	of the Memorial Circle.	☐ Completed	
	3. Reduce traffic volumes entering the Circle to reduce the	☐ Underway	
	number of conflicts with vehicles, pedestrians and bicyclists	☐ Completed	
	on the local roadways.		
B. Change from two lanes to one	Relocating the existing crosswalk farther away from the	☑ Underway	
B. Change from two lanes to one lane before the crossing #3	merging section so it only crosses one lane. See Figure 38.	☐ Completed	
	Begin and end the travel lane merging prior to the	☑ Underway	
At this specific location, allow the two lanes	existing crosswalk location. This action will entail a	☐ Completed	
which begin to merge into a single lane to	systematic review of approach roadway pavement markings		
only cross one lane of traffic.	and merging operations.		
C. Give the right of way to the	Given the FHWA guide's operational recommendations	☐ Underway	
circle	as well as the observed conditions in field, the RSA team	☐ Completed	
G. G	does recommend that the circulating roadway maintain right-		
	of-way and that vehicles on all approaches to the Arlington		
	Circle must yield to traffic within the circle. This operation is		
	typical of other modern roundabouts in the Washington, DC,		
	northern Virginia area and will lend itself to the concept of		
	driver expectancy for roundabouts and the interactions of		
	pedestrians and bicyclists at these features.		

Notes: Decision to relocate this crosswalk approximately 130 feet from its existing location. This action will remove pedestrians further from the north bound Memorial circle bypass area that has Disoriented Users and Conflicting movements issues. Proposal was presented to FHWA. FHWA agreed. Proposed project is in compliance. Once approved by compliance team the re-alignment project will be performed with in-house staff.