## Mezzanine Inspection Report Date: 06/15/15 Station Name: C02 McPherson Square Mezzanine #: 037 Completed By: Mike Butler Summary

**NEPP-01:** Video scoping and pull string installation was completed for communication ducts in upper / lower faregate arrays; respective power ducts were also video scoped. It was not possible to complete video scoping and pull string installation in existing power duct between Kiosk and AFC Panel because the duct is at capacity. Scanning was conducted to identify a proposed power route between the Kiosk and AFC Panel. There are multiple ducts running from the Kiosk to AFC Panel, and there is no clear path for a new in-floor duct. However, an alternate existing duct was identified.

**NEPP-02:** Video scoping and pull string installation was attempted in an alternate duct that runs parallel with existing power duct from Kiosk to AFC Panel. Video scoping was completed from Kiosk to an in-floor access panel, and from AFC Panel to the same in-floor access panel. However, it was not possible install pull string due to access issues to the in-floor access panel. A fare vending machine (Express Vendor #37; SN:FV1880) is currently blocking access to the in-floor access panel and will need to be moved to complete the pull string installation. The alternate duct appears to be in good condition and is at minimal capacity. The alternate duct leads to Panel NMWW-1A (Room 212), which is adjacent to the existing AFC Panel NWMM-1B. Panel NWMM-1A could be used as a potential power source for the new wires, or the new NEPP wires could be routed to AFC Panel NMWW-1B.

Refer to photos and drawings for further information.

<b>3</b>					
NEPP-01: Scoping of Faregate Arrays (01/26/15)					
Task	Yes/No	Notes			
Communications Duct - Upper Faregate Array (5 g	ates)				
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA McPherson Square West 3inch Upper Comm Faregate.avi".			
Were pull strings installed at all faregates in the array?	Yes				
Were there any obstructions or blockages? Provide details of type and specific location.	No				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct with less than 10 wires.			
Communications Duct - Lower Faregate Array (4 ga	ates)				
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA McPherson Square West 6inch Lower Comm Faregate.avi".			
Were pull strings installed at all faregates in the array?	Yes				
Were there any obstructions or blockages? Provide details of type and specific location.	No				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct with less than 10 wires.			
Power Duct - Upper Faregate Array (5 gates)					
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA McPherson Square West 6inch Upper Power Faregate.avi".			
Were there any obstructions or blockages? Provide details of type and specific location.	No				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct with less than 10 wires.			
Power Duct - Upper Faregate Array (4 gates)					
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA McPherson Square West 6inch Lower Power Faregate.avi".			
Were there any obstructions or blockages? Provide details of type and specific location.	No				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct with less than 10 wires.			

NEPP-01: Scoping of Existing Power Duct - Kiosk to AFC Panel (01/26/15)				
Task	Yes/No	Notes		
Kiosk to In-floor Access Panel (Distance: 57')				
Was video scoping completed for the entire duct / conduit run?	No			
Was pull string installed?	No			
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Congested wires causing obstruction at the entrance to duct.		
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	6" walker duct with more than 35 wires.		
In-floor Access Panel to AFC Panel (Distance: 3')				
Was video scoping completed for the entire duct / conduit run?	No			
Was pull string installed?	No			
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Congested wires causing obstruction at the entrance to duct.		
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	6" walker duct with more than 35 wires.		
NEDD 44				
NEPP-01:	Scanning	of Mezzanine Floor (02/26/15)		
- Scanning was subsequently conducted to identify a	a proposed r	power route between the Kiosk and AFC Panel.		
There are multiple ducts running from the Kiosk to	AFC Panel a	and there is no clear path for a new in-libor duct.		

NEPP-02: Scoping of Alternate Duct - Kiosk to AFC Panel (06/15/15)				
Task	Yes/No	Notes		
Kiosk to In-floor Access Panel (Distance: 57')				
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to "C02_MZ037_McPherson Square West_Power Duct_Kiosk to Access Panel.avi"		
Was pull string installed?	No	Could not gain access to in-floor access panel, which prohibited the installation of pull string. Fare vending machine needs to be moved temporarily to allow access. There are no other obstructions in duct run.		
Were there any obstructions or blockages? Provide details of type and specific location.	No			
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	6" walker duct with 5 wires.		
In-floor Access Panel to AFC Panel NMWW-1A (Dis	stance: 3')			
Was video scoping completed for the entire duct / conduit run?	No	Vertical 90-degree bend prohibited video scoping from the AFC Panel.		
Was pull string installed?	No	Could not gain access to in-floor access panel, which prohibited the		
Were there any obstructions or blockages? Provide details of type and specific location.	No	installation of pull string. Fare vending machine needs to be moved temporarily to allow access. There are no other obstructions in duct run.		
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	6" walker duct with 5 wires.		
Observations / Issues / Next Steps				

## Observations / Issues / Next Steps

- The alternate duct was video scoped up to the in-floor access panel from Kiosk and AFC Panel sides; however it was not possible to scope across the in-floor access panel due to multiple crossing wires. The in-floor access panel is currently inaccessible due to a fare vending machine blocking access.
- Pull string installation in alternate duct between Kiosk, In-floor Access Panel and AFC Panel (NMWW-1A) should be possible if the infloor access panel is made accessible by moving the fare vending machine.
- The alternate duct is at minimal capacity and in good condition, therefore viable for further use.
- It should be noted that the alternate duct leads to Panel NMWW-1A (Room 212), which is adjacent to the existing AFC Panel NWMM-1B. Panel NWMM-1A could be used as a potential power source for the new wires, or the new NEPP wires could be routed to AFC Panel NMWW-1B.

Sign Off					
	GFP Representative	WMATA PRGM			
Name:	Mike Butler				
Signature:	M.Zurz				
Date:	06/17/15				

Photo 1 – Existing and alternate duct layout on mezzanine floor



Photo 2 – Existing and alternate duct layout on mezzanine floor

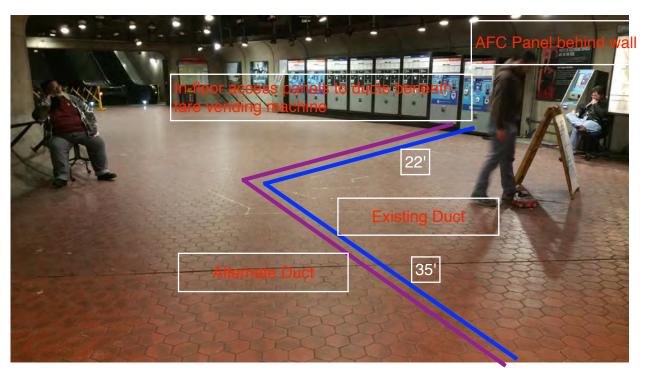


Photo 3 – In floor access panels for existing and alternate ducts (beneath fare vending machine)

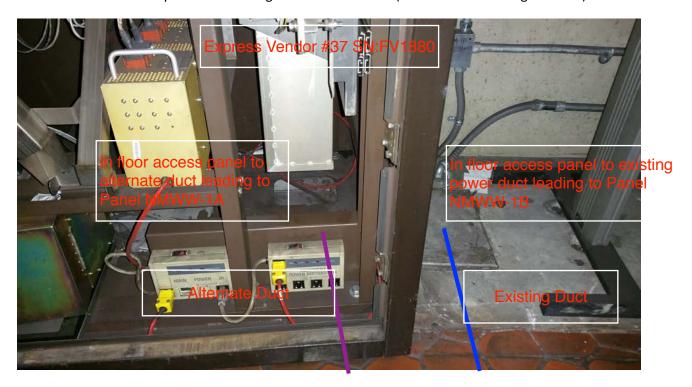


Photo 4 – AFC Panels NMWW-1B and NMWW-1A

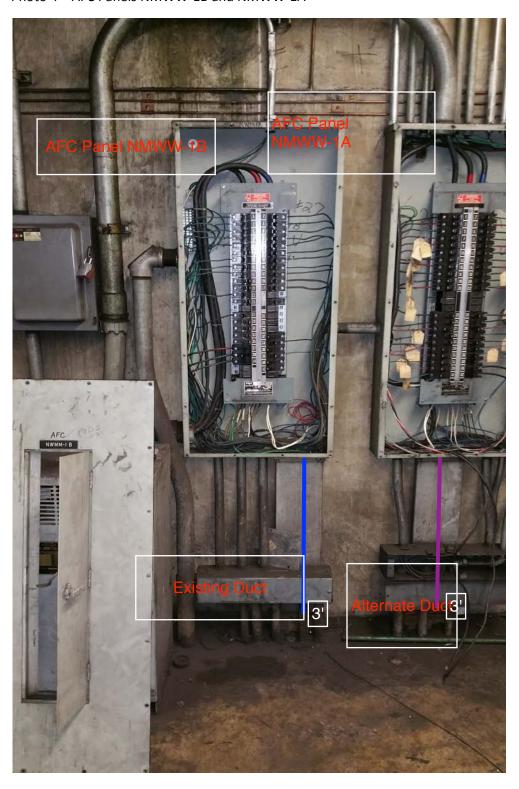


Photo 5 – AFC Panel NMWW-1B

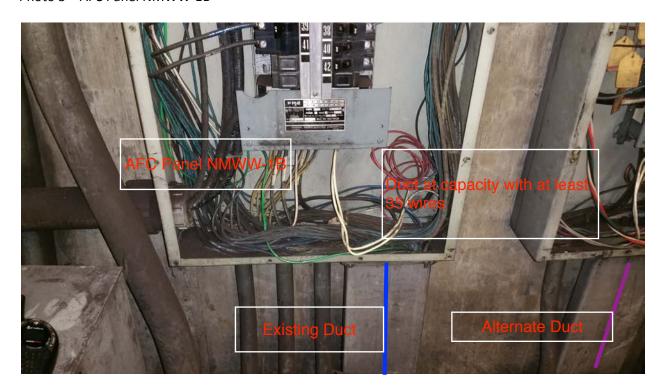


Photo 6 – AFC Panel NMWW-1A

