

# Mezzanine Inspection Report

REVISION 1

Date: 02/13/2015	Station Name: Foggy Bottom – C04	Mezzanine #: 040	Completed By: Mike Butler
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## Summary

Video scoping was completed in the communication and power ducts for the upper faregate array, and pull string was installed in the communication duct. Video scoping and pull string installation could not be completed in lower faregate communication run between Kiosk and Handhole 1A because it is a liquid tight conduit with no additional capacity. However, video scoping and pull string installation was completed in communication duct between Handhole 1A and the end of the lower faregates. Video scoping was completed in power duct between Handhole 1B and the end of the faregates. It was not necessary to video scope the 2"conduit. between Kiosk and Handhole 1B.

Video scoping and pull string installation was not completed in the existing power run between the Kiosk and AFC Panel. Between the Kiosk and Handhole 1 the duct is collapsed. Between Handhole 1 and Handhole 2 the duct contains both communication and power wires. Between Handhole 2 and the AFC Panel the conduit is obstructed.

Scanning was completed at this mezzanine. The mezzanine floor is congested with existing in-floor ducts, and there is no feasible in-floor duct option. An overhead conduit run is proposed between the Kiosk and AFC Panel. The proposed conduit will rise up vertically from kiosk and run along the vaulted ceiling until it reaches mezzanine passageway. The overhead conduit will then run through the ceiling plenum above the mezzanine passageway. Once the proposed conduit reaches the passageway's outer wall, it will core drill through the wall into Room C204 and feed into AFC Panel.

A proposed conduit is also recommended between Kiosk and Handhole 1A. The proposed conduit will run vertically down from the Kiosk to ceiling plenum at platform level. It will then continue along ceiling plenum until it reaches Handhole 1A where it will rise up and core drill through ceiling.

Refer to photos and drawings for additional detail.

## Scoping of Faregate Array(s)

Task	Yes/No	Notes
<b>Communications Duct - Upper Faregate Array (8 gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA GWU 3inch Upper Comm Faregate.avi file.
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 less than 12 wires
<b>Communications Water-tight conduit (Between Kiosk &amp; Handhole 1A) - Lower Faregate Array</b>		
Was video scoping completed for the entire duct run?	No	Scoping of conduit not required
Were pull strings installed at all faregates in the array?	No	
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.	Yes	1/2" liquid-tight conduit at full capacity.
<b>Communications Duct (Between Handhole 1A &amp; Faregates) - Lower Faregate Array (10 gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA GWU 3inch Lower Comm Faregate.avi file.
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 less than 12 wires

**Scoping of Faregate Array(s) Con't**

Task	Yes/No	Notes
<b>Power Duct - Upper Faregate Array (8 gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA GWU 6inch Upper Power Faregate.avi file.
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 less than 20 wires
<b>Power Conduit (Between Kiosk &amp; Handhole 1B) - Lower Faregate Array</b>		
Was video scoping completed for the entire duct run?	No	Scoping of conduit not required
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	2" conduit
<b>Power Duct (Between Handhole 1B &amp; Faregates) - Lower Faregate Array (10 gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA GWU 6inch Lower Power Faregate.avi file.
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 less than 20 wires


Scoping of Power Duct - Kiosk to AFC Panel		
Task	Yes/No	Notes
<b>Kiosk to Handhole 1 (Distance: 30')</b>		
Was video scoping completed for the entire duct / conduit run?	No	Refer to WMATA GWU 6inch Power HH1 to Kiosk.avi file.
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Kiosk apron prevented scoping from kiosk side of run. Duct was collapsed approximately half way between kiosk and handhole 1 when scoped from handhole 1
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	N/A	6" duct
<b>Handhole 1 to Handhole 2 (Distance: 30')</b>		
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.	No	Duct has both communication and power wires inside.
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	N/A	6" duct
<b>Handhole 2 to AFC Panel (Distance: 35')</b>		
Was video scoping completed for the entire duct / conduit run?	No	Scoping of conduit not required
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Obstruction at handhole 2 entrance and congested trough at AFC Panel.
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	N/A	2" conduit
<b>Observations / Issues / Next Steps</b>		
Total distance of proposed power conduit from Kiosk to AFC Panel is 115'. The proposed conduit run from Kiosk to Handhole 1A is 15'. Total distance of existing power duct from Kiosk to AFC Panel is 95'.		
<b>Sign Off</b>		
	<b>GFP Representative</b>	<b>WMATA PRGM</b>
<b>Name:</b>	Mike Butler	
<b>Signature:</b>		
<b>Date:</b>	04/02/15	

Photo #1 – Proposed conduit run from Kiosk to Handhole 1A for lower faregate array communications run

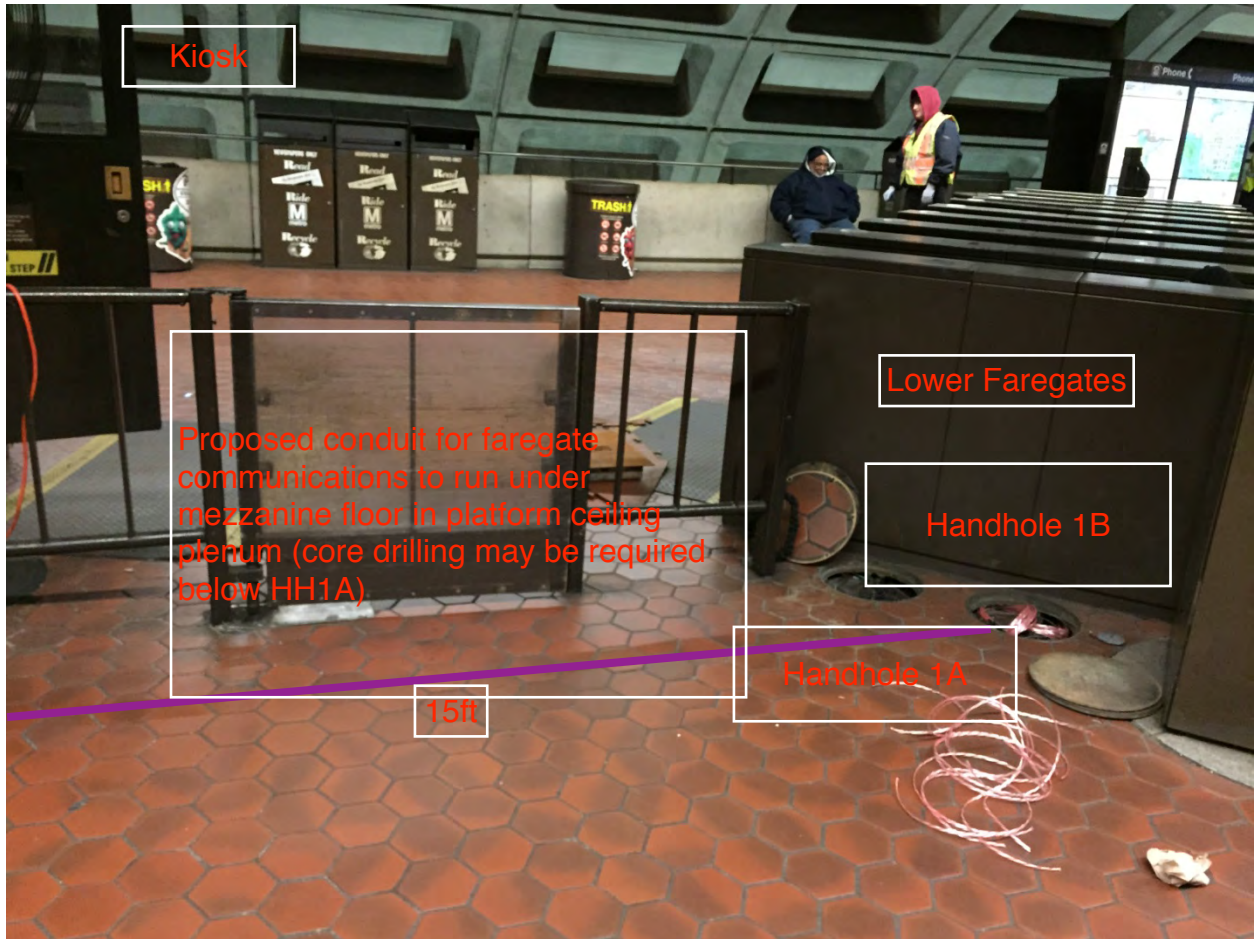


Photo #2 – Proposed conduit run from kiosk along mezzanine ceiling and wall

