Mezzanine Inspection Report REVISION 1				ort REVISION 1
Date: 11/19/2014	Station Name: E02 -	Shaw/Howard U (North)	Mezzanine #: 072	Completed By: Mike Butler

Summary

- Video scoping and pull string installation was completed for communication ducts in upper faregate array; video scoping of the upper power ducts was also completed, however there were minor obstructions in power duct caused by corrosion. It was not possible to complete video scoping and pull string installation for communication duct in lower faregate array due to collapsed duct. Video scoping was completed in lower power duct.
- Video scoping and pull string installation in power duct between Kiosk, Handhole 1, Handhole 2 and Junction Box could not be completed
 due to multiple collapses. It should be noted that all ducts are in very bad condition and have been subjected to extensive water damage. In
 addition, pull string installation could not be completed in conduit between Junction Box and AFC Panel due to obstructions / bends.
- Scanning of the mezzanine was completed to identify a new power route from the Kiosk to AFC Panel. The scanning results confirmed that there is no direct path to the AFC panel without crossing existing ducts / conduit or having to core drill through structural wall.
- It is recommended to install a proposed duct, which will run parallel to the outside of existing duct from Kiosk to Handhole 2. A new handhole is proposed adjacent to Handhole 2, where the proposed the duct will connect perpendicular. There is an empty 6" duct running from Handhole 2 to Junction Box, which is partially collapsed. It is recommended to repair / replace the empty duct and utilize the existing run from Handhole 2 to Junction Box (Room 217). It is assumed that the three existing 2.5" conduits (two of which are empty) have a continuous route from the Junction Boxes (Room 217) to the Junction Box (Room 205) to the AFC Panel. It is recommended to utilize one of the two empty conduits as part of the proposed run. If that is not possible, it is recommended to run a proposed conduit from Junction Box to AFC Panel by running up wall, across ceiling and core drilling through CMU wall into Room 205 where the AFC Panel is located.

Scoping of Faregate Array(s)

Cooping of Landy(s)					
Task	Yes/No	Notes			
Communications Duct – Upper Faregate Array (3 faregates)					
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA Shaw-Howard Upper Comm Duct Video.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" ducts with less than 6 wires.			
Communications Duct - Lower Faregate Array (3 fa	regates)				
Was video scoping completed for the entire duct run?	No	Refer to "WMATA Shaw-Howard Upper Lower Comm Duct Video.avi"			
Were pull strings installed at all faregates in the array?	No				
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Duct is collapsed and not viable for future use.			
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" ducts with less than 6 wires.			
Power Duct - Upper Faregate Array (3 faregates)					
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA Shaw-Howard Upper Power Duct Video.avi"			
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Minor obstructions caused by mud/debris/water corrosion.			
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" ducts with less than 10 wires			
Power Duct - Lower Faregate Array (3 faregates)					
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA Shaw-Howard Lower Power Duct Video (1).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" ducts with less than 10 wires			
1		1			

Scoping of Power Duct - Kiosk to AFC Panel				
Yes/No	Notes			
No				
No				
Yes	The duct is collapsed at 10' from the kiosk; water damage evident.			
No	6" duct with less than 12 wires.			
No				
No				
Yes	The duct is collapsed just beyond Handhole 1; water damage evident.			
No	6" duct with less than 12 wires.			
No				
No				
Yes	The duct is collapsed just beyond Handhole 2; water damage evident.			
No	6" duct with less than 12 wires.			
Junction E	Box at ceiling in Room 205 and AFC Panel in Room 205 (60' assumed)			
No	Scoping of conduits not required.			
No				
No	It is assumed that the conduit runs are not obstructed, and the visible portions of the runs look to be in good condition. However, the conduit run between the two junction boxes on the ceiling was not visible.			
N/A	Three 2.5" conduits			
	No N			

Observations / Issues / Next Steps

The total distance of proposed power route is 133', including 63' of proposed duct, 10' of existing repaired/ replaced duct and 60' of existing /proposed conduit.

Photos and drawings are for reference purposes only; see new schematic drawing/proposed pathway on last page.

	Sign Off	
	GFP Representative	WMATA PRGM
Name:	Mike Butler	
Signature:	M.Zur	
Date:	04/03/15	

Photo #1: Existing and proposed ducts on mezzanine floor

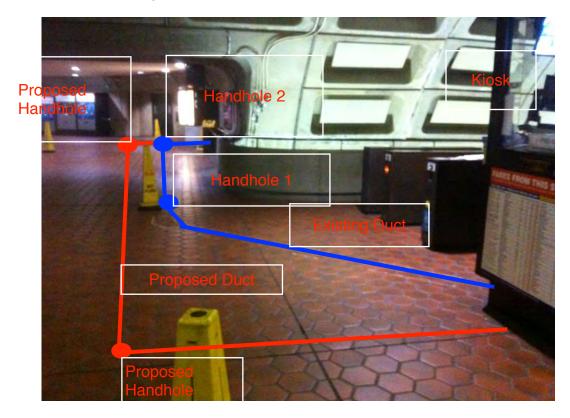


Photo #2: Existing and proposed ducts on mezzanine floor

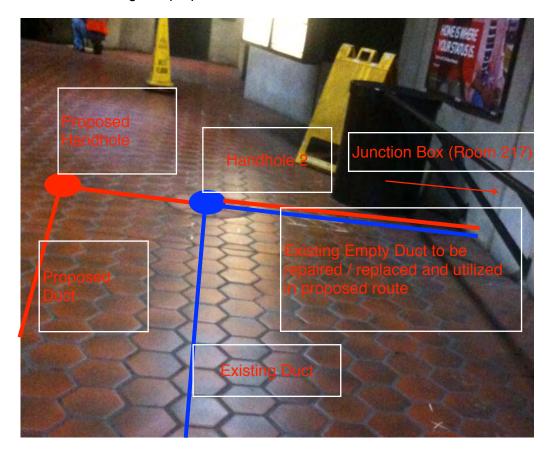


Photo #3: Existing and proposed conduits in Room 217

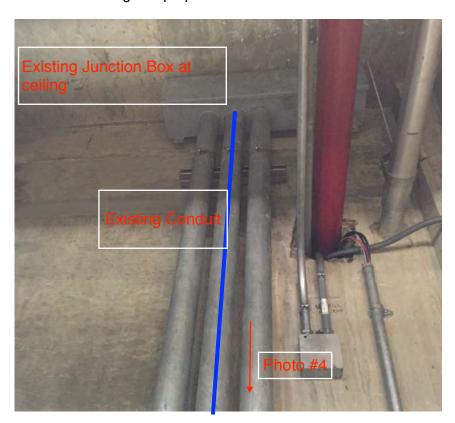


Photo #4: Existing and proposed conduits in Room 217

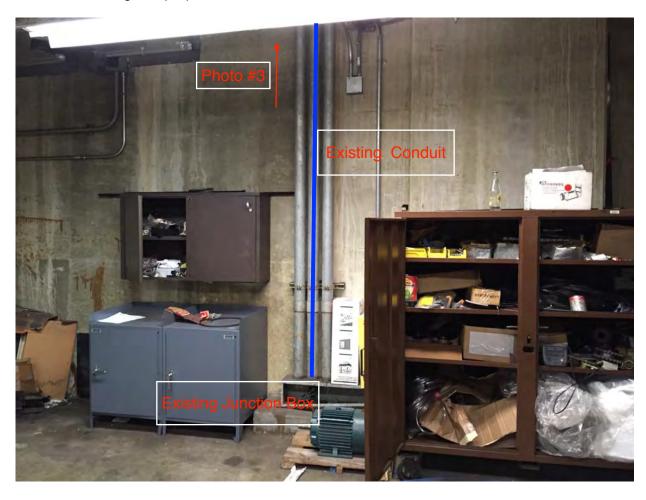


Photo #5: Existing and proposed conduits in Room 217

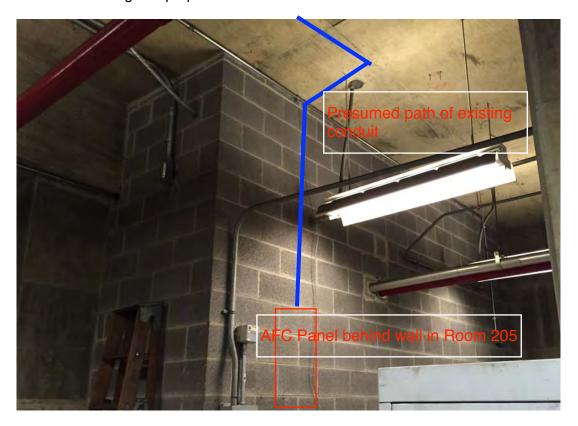


Photo #6: Existing and proposed conduits in Room 205



Photo #7 – Existing Handhole 2 (close-up)

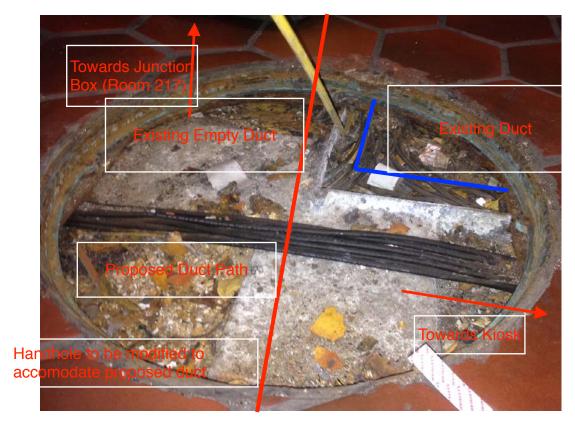
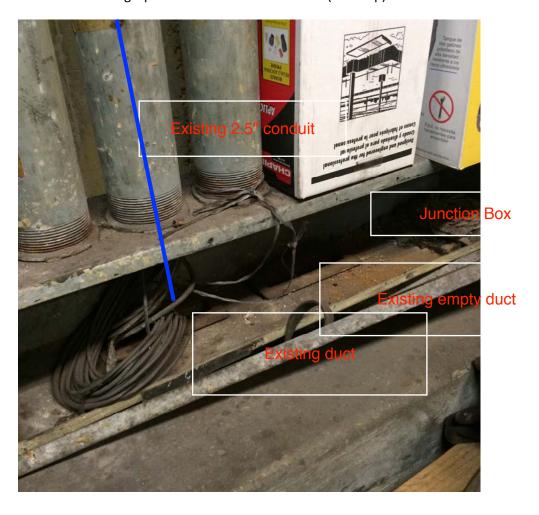
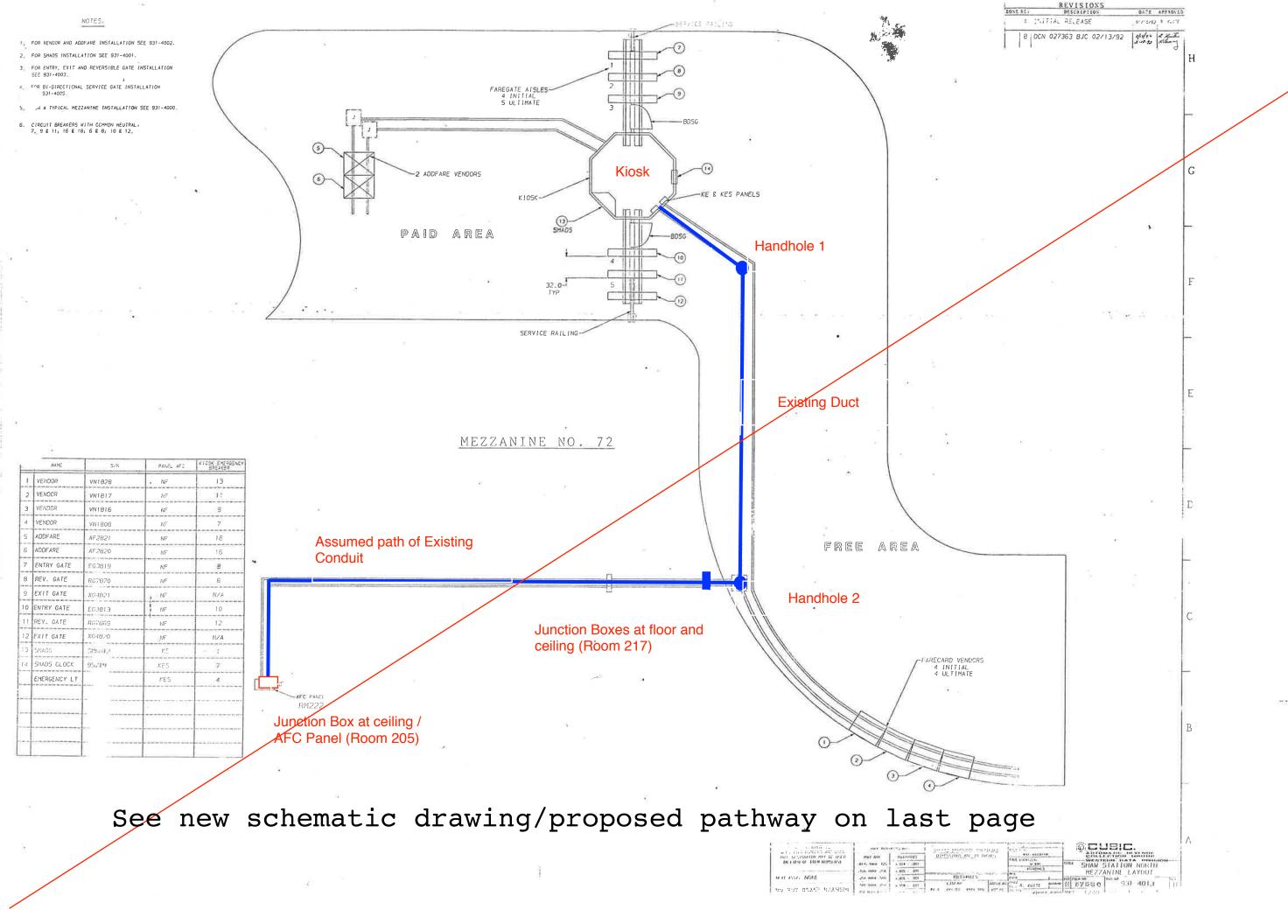
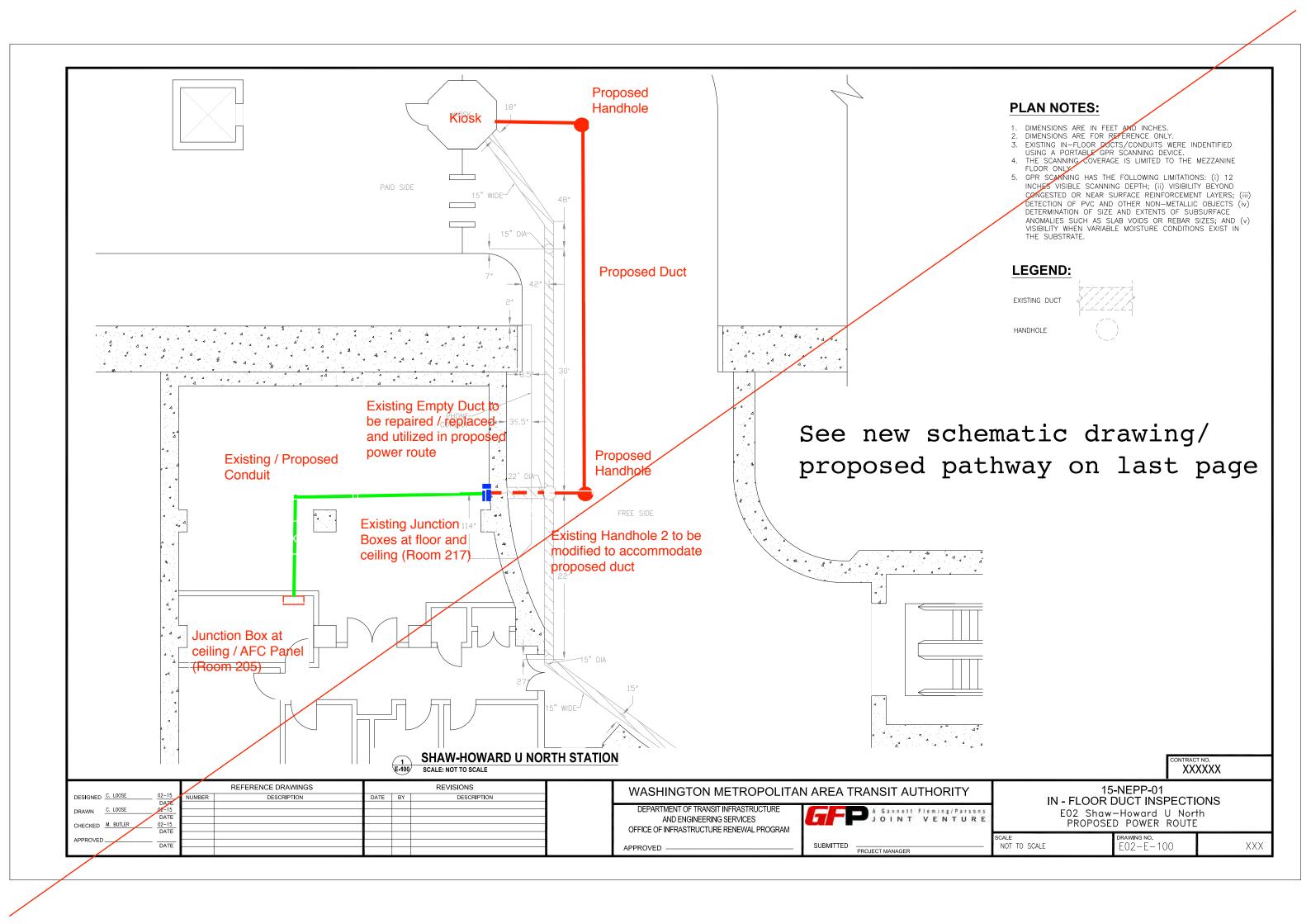
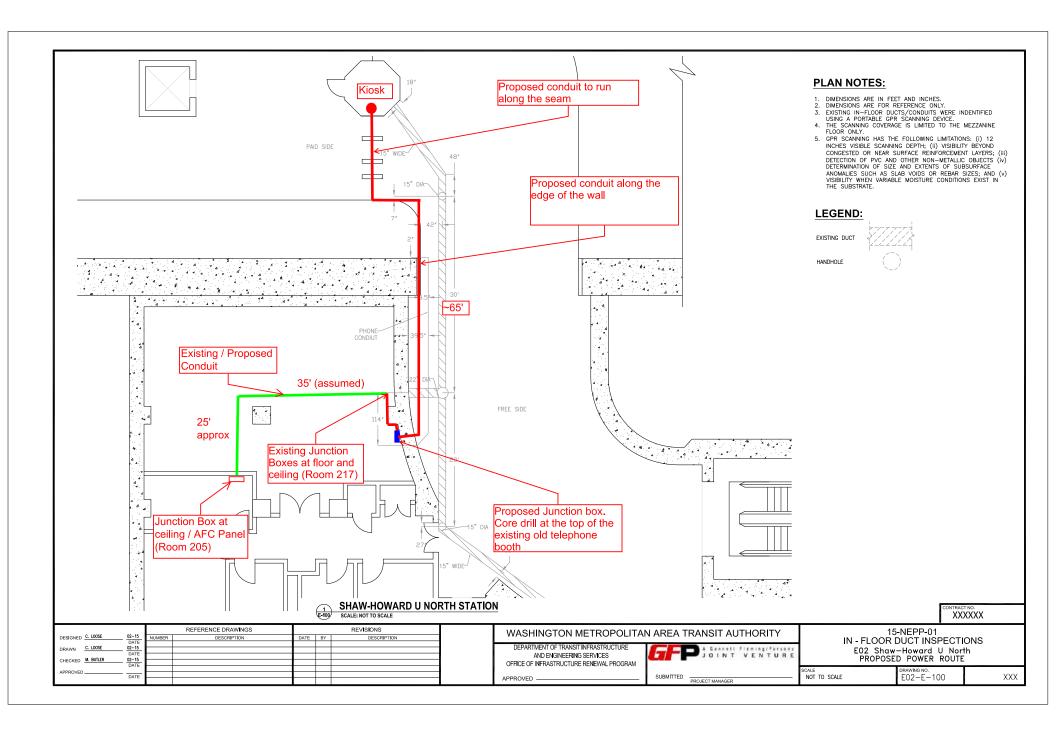


Photo #8 – Existing Open Junction Box in Room 217 (close-up)









	Mezzanin	e Inspe	ection Report (Scoping)
Date: 11/24/2014	Station Name: E03 U Street E	East	Mezzanine #: 073	Completed By: Mike Butler
			Summary	
for the upper power		wer duct far	egate array was not scope	er and lower faregate arrays. Scoping was completed ed because the duct was at capacity. Pull string was the AFC panel.
No scanning is requ	ired at this mezzanine.			
		Scoping	of Faregate Array(s)	
	Task			Notes
Communications D	uct – Upper Faregate Array (3 G	Yes/No		Notes
run?	completed for the entire duct	Yes	Refer to WMATA U St.	Mezz 73 and 74 Upper Comm 3inch Duct.avi file.
Were pull strings in array?	stalled at all faregates in the	Yes		
Were there any obs details of type and s	tructions or blockages? Provide specific location.	No		
	ity? Provide additional details ns of ducts and number of wires.	No		
Communications D	uct - Lower Faregate Array (3 G	ates)		
Was video scoping run?	completed for the entire duct	Yes	Refer to WMATA U St.	Mezz 74 and 73 Lower Comm 3inch duct.avi file.
Were pull strings in array?	stalled at all faregates in the	Yes	Pull strings installed in obstructing access	6" duct. The 3" duct had a welded metal plate
Were there any obs details of type and s	tructions or blockages? Provide specific location.	No		
	ity? Provide additional details ns of ducts and number of wires.	No		
Power Duct - Upper	Faregate Array (3 Gates)			
Was video scoping run?	completed for the entire duct	Yes	Refer to WMATA U St.	Mezz 74 and 73 Upper Power 6inch duct.avi file.
Were there any obs details of type and s	tructions or blockages? Provide specific location.	No		
Is the duct at capac about the dimension	ity? Provide additional details as of ducts and number of wires.	No		
Power Duct - Lower	r Faregate Array (3 Gates)			
Was video scoping run?	completed for the entire duct	No	Refer to WMATA U St.	Mezz 73 and 74 Lower Power 6inch Duct.avi file.
Were there any obs details of type and s	tructions or blockages? Provide specific location.	N/A		
1		 	1	

Yes

6" power duct at capacity

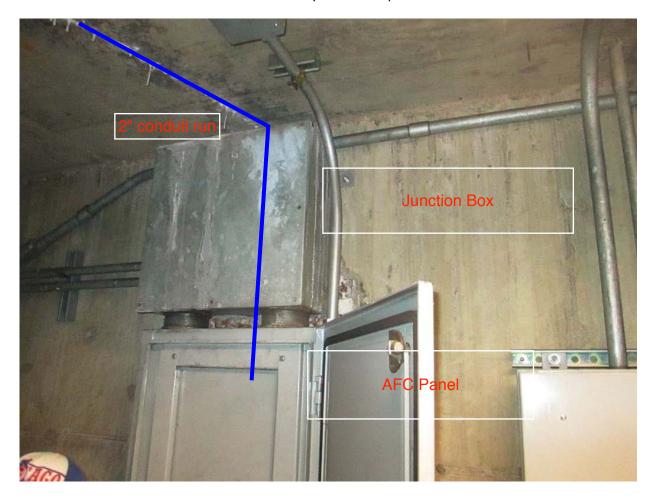
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.

	Scoping	g of Power	Duct - Ki	Gosk to AFC Panel
	Task	Yes/No		Notes
Kiosk to Junction	Box (175' run)			
Was video scopii conduit run?	ng completed for the entire duct /	No	2" conduit	iit – no scoping required
Was pull string in	stalled?	Yes		
Were there any of details of type and	bstructions or blockages? Provide d specific location.	No		
Is the duct / condi- details about the onumber of wires.	uit at capacity? Provide additional dimensions of duct / conduit and	No		
Junction Box to A	AFC Panel (5' run)			
Was video scopii conduit run?	ng completed for the entire duct /	No	2" conduit	iit – no scoping required
Was pull string in	stalled?	Yes		
Were there any of details of type and	bstructions or blockages? Provide d specific location.	No		
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.		No		
			ı	
		Observation	s / Issues /	s / Next Steps
Total run from kio	sk to AFC panel is 180'.			
			Sign Off	
	GFP Representa	tive		WMATA PRGM
Name:	Mike Butler			
Signature:	Wigner			
Date:	11/24/14			

Photo #1 – E02 U Street East: existing conduit run from Kiosk towards junction box

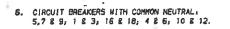


Photo #2 – E03 U Street East: Junction box directly above AFC panel in room #213

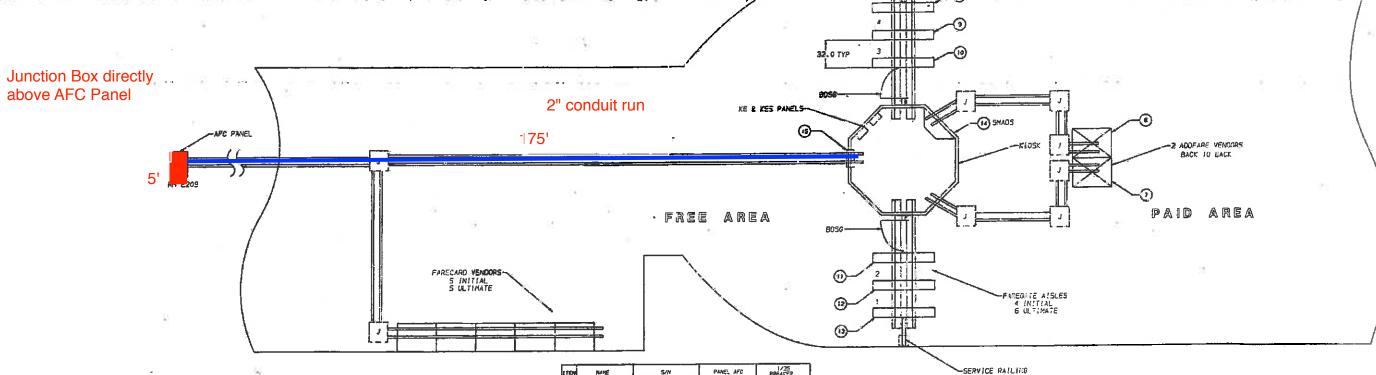


NOTES:

- 1. FOR VENDOR AND ADDEASE INSTALLATION SEE 931-4002.
- 2. FOR SMADS INSTALLATION SEE 931-4001.
- 3: FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
- 4. FOR 81-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
- 5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.



above AFC Panel



NON-TYP FOR NEW INSTALLATIONS

TEN	NAME	5/N	PAREL AFE	BREAKER	Į
1	VENDOR	1862	EF	9	Ì
2	VENDOR	1865	EF	7	
3	VENDOR	1867	E=	5	
4	VENDOR	1872	EF	3	
5	VENDOR	1863	E	í	ļ
6	ADDFARE	2632	£F.	18	
7	ADDFARE	2831	€F	16	l
8	EXIT GATE	4808	EF	N/A	
3	REV. GATE	7808	EF	5	
10	ENTRY GATE	3811	EF	1	
17	EXIT GATE	4816	EF	N/A	
12	REV GATE	7875	EF	12	
13	ENTRY GATE	3823	EF	10	
14	SMADS	8811	KÉ	i	
15	SHADS CLOCK	95718	KES	8	l
16	EMERGENCY LT		KE	4	ľ
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MEZZANINE NO. 73