Mezzanine Inspection Report					
Date: 01/29/15 Station Name:	D03 L'Enfant P	laza (West)	Mezzanine #: 056	Completed By: Mike Butler	
Summary					
Video scoping and pull string installation was completed for communication ducts in upper / lower faregate arrays; respective power ducts were also video scoped. Pull string installation was completed in power duct between Kiosk, Handhole and Junction Box. Pull string was also installed in conduit between Junction Box and AFC Panel. However, video scoping of power duct between Kiosk and AFC Panel could not be completed due to wire congestion; it was confirmed that the duct / conduit are at capacity and an alternate power route is needed.					
Scanning of the mezzanine was condunct a clear path for proposed duct in the				AFC Panel. The scanning results showed that there is ed power route:	
<b>Option 1</b> : Core drill through the floor beneath Kiosk and run a proposed conduit vertically down into a proposed junction box in the ceiling plenum at platform level. The proposed conduit will then run across the ceiling plenum from the proposed junction box to the head wall at the end of the platform. The proposed conduit will then run through spare hole in head wall and continue along the ceiling of Room W101. The conduit will core drill through 3 internal walls passing Room W102 and Room W103, and feed into AFC Panel once inside Room W104.					
	ound the side of	the head wa		all and internal walls. Once the proposed conduit at track wayside. The proposed conduit will then core	
Refer to photos and drawings for furthe	er information.				
		Scoping o	of Faregate Array(s)		
Task		Yes/No		Notes	
Communications Duct – Upper Fareg	gate Array (4 ga	ates)			
Was video scoping completed for the run?	entire duct	Yes	Refer to "WMATA L'Ent	ant West 3inch Upper Comm Faregate Video.avi"	
Were pull strings installed at all farega array?	ates in the	Yes			
Were there any obstructions or blocka details of type and specific location.	ges? Provide	No			
Is the duct at capacity? Provide addition about the dimensions of ducts and nur		No	3" duct with less than 8	wires	
Communications Duct - Lower Fareg	jate Array (4 ga	ites)			
Was video scoping completed for the run?	e entire duct	Yes	Refer to "WMATA L'Ent	ant West 3inch Lower Comm Faregate Video.avi"	
Were pull strings installed at all farega array?	ates in the	Yes			
Were there any obstructions or blocka details of type and specific location.	ges? Provide	No			
Is the duct at capacity? Provide addition about the dimensions of ducts and nur		No	3" duct with less than 8	wires	
Power Duct - Upper Faregate Array (					
Was video scoping completed for the run?	e entire duct	Yes	Refer to "WMATA L'Ent	ant Upper Power Duct Video.avi"	
Were there any obstructions or blocka details of type and specific location.	ges? Provide	No			
Is the duct at capacity? Provide addition about the dimensions of ducts and nur		No	6" duct with less than 1	2 wires	
Power Duct - Lower Faregate Array (	4 gates)				
Was video scoping completed for the run?	e entire duct	Yes	Refer to "WMATA L'Ent	ant Lower Power Duct Video.avi"	
Were there any obstructions or blocka details of type and specific location.	ges? Provide	No			
Is the duct at capacity? Provide addition about the dimensions of ducts and nur		No	6" duct with less than 1	2 wires	

Scoping of Power Duct - Kiosk to AFC Panel					
Task		Yes/No		Notes	
Kiosk to Handhole 1 (Distance: 9	0')				
Was video scoping completed for conduit run?	the entire duct /	No	Wire cong	gestion prevented video scoping.	
Was pull string installed?		Yes			
Were there any obstructions or blo details of type and specific location		No			
Is the duct / conduit at capacity? P details about the dimensions of du number of wires.		Yes	6" duct at	t capacity (>40% of wire fill).	
Handhole 1 to Wall Mounted Jun	ction Box (Distanc	:e: 10')	1		
Was video scoping completed for conduit run?	the entire duct /	No	Wire congestion and 90-degree bend prevented video scoping.		
Was pull string installed?		Yes			
Were there any obstructions or blockages? Provide details of type and specific location.		No			
Is the duct / conduit at capacity? P details about the dimensions of du number of wires.		Yes	6" duct at capacity (>40% of wire fill).		
Wall Mounted Junction Box to A	FC Panel (Distanc	e: 30')			
Was video scoping completed for the entire duct / conduit run?		No	Video scoping of conduit not required.		
Was pull string installed?		Yes			
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.		Yes	2" conduit (>40% of wire fill).		
	Observations / Issues / Next Steps				
<ul> <li>The distance of proposed conduit for Option 1 is 166'.</li> <li>The distance of proposed conduit for Option 2 is 205'.</li> <li>There was no AFC as-built drawings available for this mezzanine, however scanning drawing shows layout of existing ducts.</li> </ul>					
Sign Off					
	GFP Representat	ive		WMATA PRGM	
Name: Mike Butler					
Signature: M.3M	2				
Date: 04/01/15					

Photo #1: Existing duct layout on mezzanine floor



Photo #2: Existing duct layout on mezzanine floor

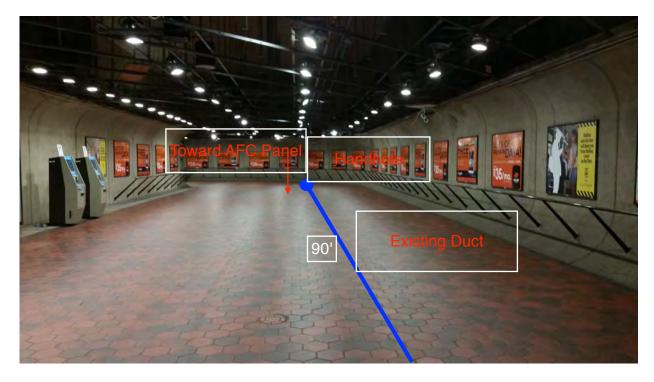


Photo #3: Proposed conduit options at platform level (Option 1 and Option 2 are the same at this location.

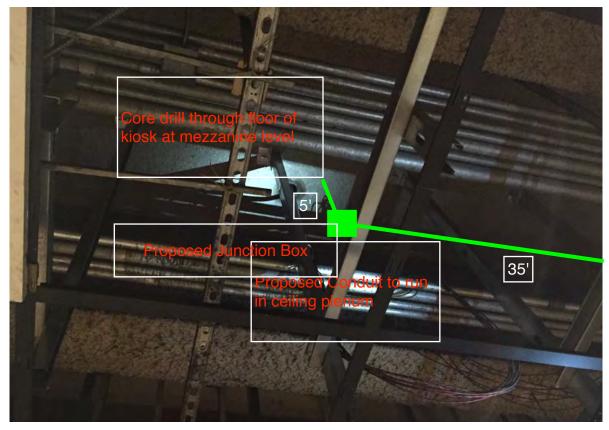
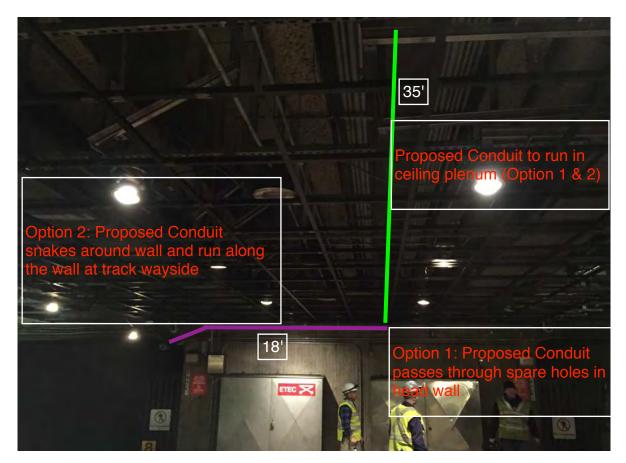


Photo #4: Proposed conduit options at platform level



## Photo #5: Proposed conduit Option 1 at platform level



Photo #6: Proposed conduit Option 2 at platform level



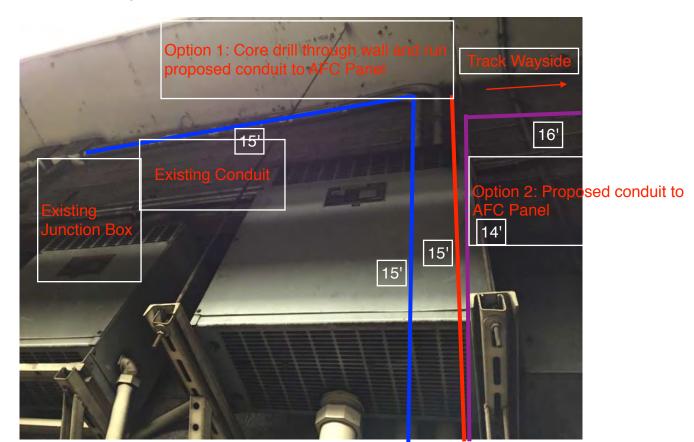
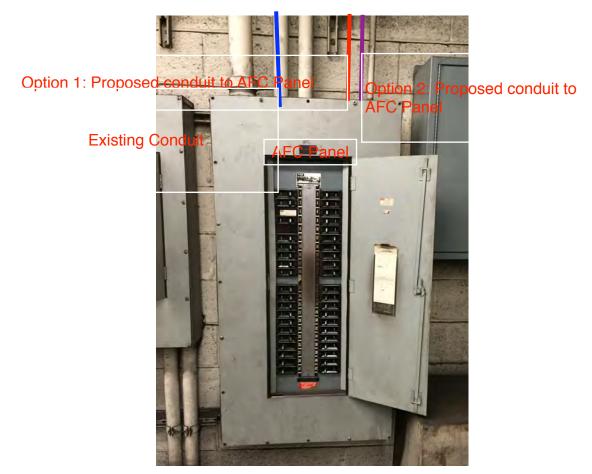
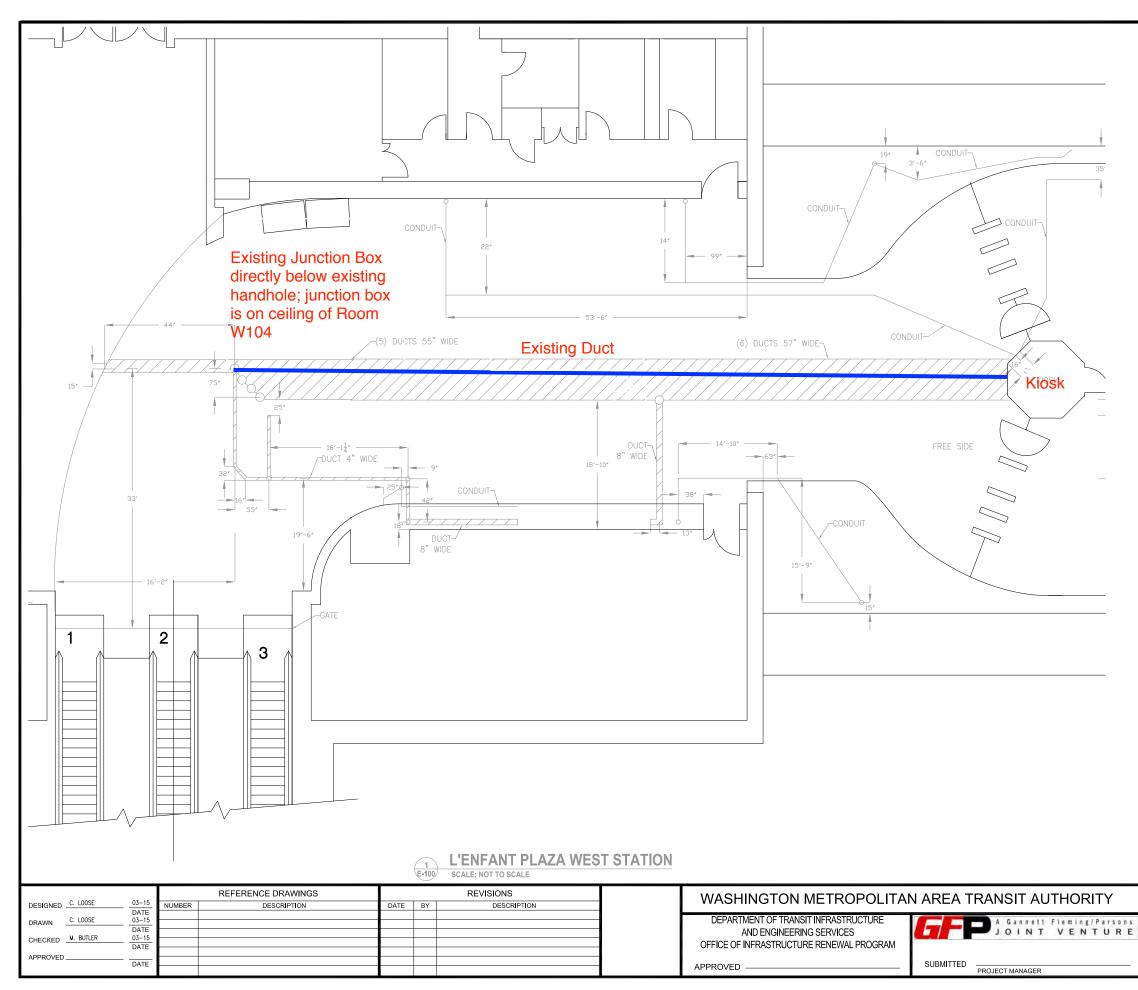


Photo #7: Existing and proposed conduit options inside Room W104

Photo #7: Existing and proposed conduit options inside Room W104





## **PLAN NOTES:**

- DIMENSIONS ARE IN FEET AND INCHES.
   DIMENSIONS ARE FOR REFERENCE ONLY.
   EXISTING IN-FLOOR DUCTS/CONDUITS WERE INDENTIFIED USING A PORTABLE GPR SCANNING DEVICE.
   THE SCANNING COVERAGE IS LIMITED TO THE MEZZANINE ELOOR ONLY
- FLOOR ONLY. 5. GPR SCANNING HAS THE FOLLOWING LIMITATIONS: (i) 12
   INCHES VISIBLE SCANNING DEPTH; (ii) VISIBILITY BEYOND CONGESTED OR NEAR SURFACE REINFORCEMENT LAYERS; (iii) DETECTION OF PVC AND OTHER NON-METALLIC OBJECTS (iv) DETERMINATION OF SIZE AND EXTENTS OF SUBSURFACE ANOMALIES SUCH AS SLAB VOIDS OR REBAR SIZES; AND (v) VISIBILITY WHEN VARIABLE MOISTURE CONDITIONS EXIST IN THE SUBSTRATE THE SUBSTRATE.

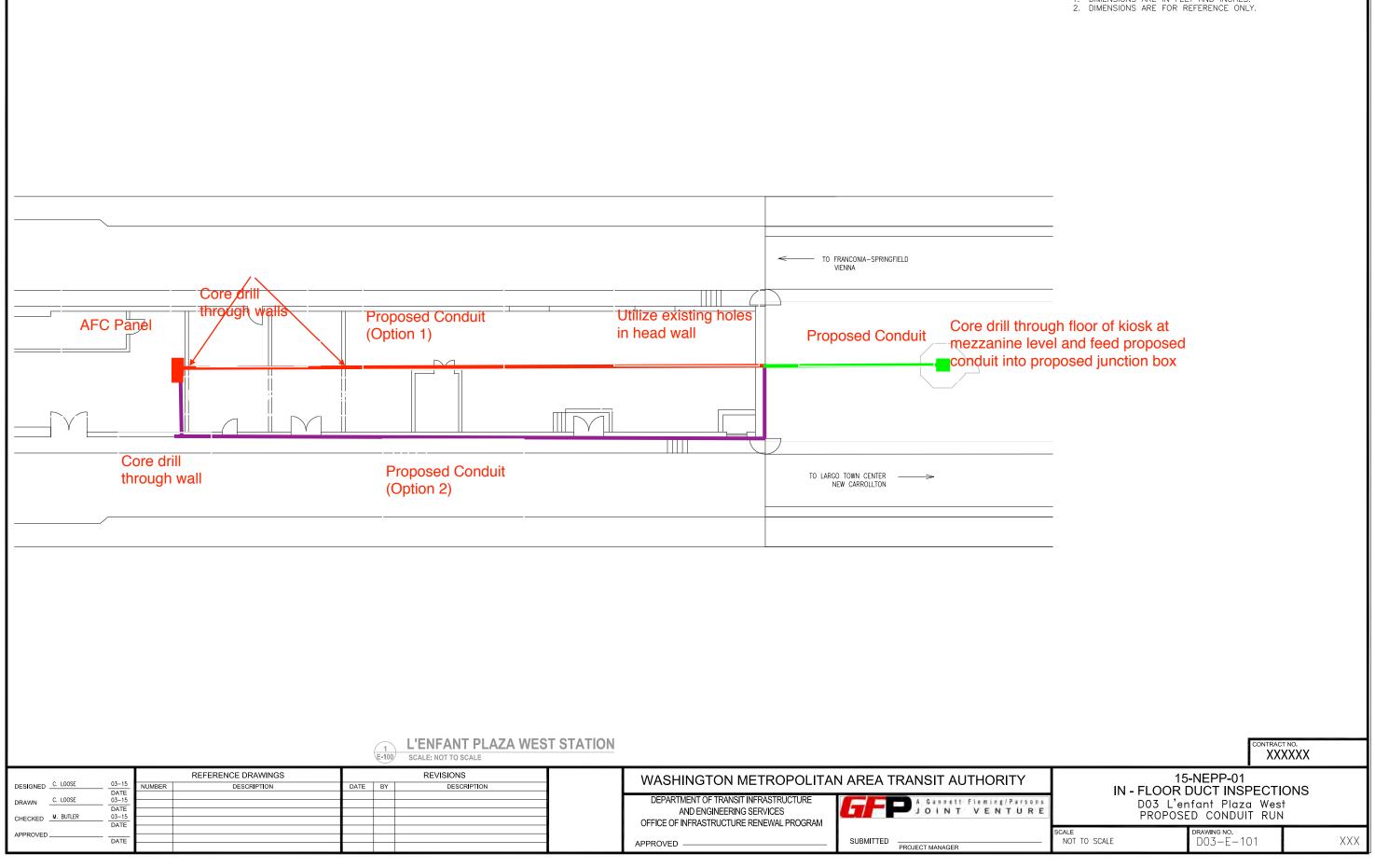


EXISTING DUCT



HANDHOLE

CONTRACT NO.					
15-NEPP-01 IN - FLOOR DUCT INSPECTIONS D03 L'enfant Plaza West					
EXISTING DUCT RUN					
SCALE NOT TO SCALE	drawing no. D03–E–100	XXX			



## PLAN NOTES:

DIMENSIONS ARE IN FEET AND INCHES.
 DIMENSIONS ARE FOR REFERENCE ONLY.

Mezzanine Inspection Report (Scoping)					
Date: 10/23/2014	Station Name: D03 L'Enfant F	laza East	Mezzanine #: 057	Completed By: Mike Butler	
	Summary				
<ul> <li>Scoping and pull string installation was completed in accordance with the scope of work.</li> <li>Video scoping completed for communication and power ducts in Upper and Lower faregate arrays; pull strings installed in communication ducts (ducts not at capacity).</li> <li>Video scoping and pull string installation completed from Kiosk to hand-hole and hand-hole to AFC Panel (ducts not at capacity).</li> <li>Scanning is not required for this mezzanine.</li> </ul>					
		Scoping o	of Faregate Array(s)		
	Task 4	Yes/No		Notes	
Communications Duc	ct – Upper Faregate Array ( <del>3 g</del>	ates)			
Was video scoping co run?	ompleted for the entire duct	Yes	Refer to "WMATA L'Enfa	ant East Upper Comm Duct Video.avi"	
Were pull strings insta array?	alled at all faregates in the	Yes			
Were there any obstru details of type and spe	uctions or blockages? Provide ecific location.	No			
	? Provide additional details of ducts and number of wires. 4	No	4" Duct with less than 10	) wires	
Communications Duc	ct - Lower Faregate Array ( <del>3</del> ga	ates)			
Was video scoping c run?	ompleted for the entire duct	Yes	Refer to "WMATA L'Enfa	ant East Lower Comm Duct Video.avi"	
Were pull strings insta array?	alled at all faregates in the	Yes			
Were there any obstru details of type and spe	uctions or blockages? Provide ecific location.	No			
Is the duct at capacity about the dimensions	? Provide additional details of ducts and number of wires.	No	4" Duct with less than 10	) wires	
Power Duct - Upper F	Power Duct - Upper Faregate Array ( <del>3</del> -gates)				
Was video scoping c run?	ompleted for the entire duct	Yes	Refer to"WMATA L'Enfa	nt East Upper Power Duct Video.avi"	
Were there any obstru details of type and spo	uctions or blockages? Provide ecific location.	No			
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. $\frac{4}{4}$		No	4" Duct with less than 12 wires		
Power Duct - Lower F	aregate Array ( <del>3</del> gates)				
Was video scoping c run?	ompleted for the entire duct	Yes	Refer to "WMATA L'Enfa	ant East Lower Power Duct Video.avi "	
Were there any obstru details of type and spo	uctions or blockages? Provide ecific location.	No			
	? Provide additional details of ducts and number of wires.	No	4" Duct with less than 12	2 wires	

Scoping of Power Duct - Kiosk to AFC Panel					
Task	Yes/No	Notes			
Kiosk to Handhole (Distance: 32')					
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to "WMATA L'Enfant East Power Kiosk to Handhole Duct Video.avi"			
Was pull string installed?	Yes				
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	4" Duct with less than 12 wires			
Handhole to AFC Panel (Distance: 16')					
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to "WMATA L'Enfant East Power Handhole to AFC Duct Video.avi"			
Was pull string installed?	Yes				
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	4" Duct with less than 12 wires			
	T				
	Observatior	ns / Issues / Next Steps			
<ul> <li>Total power duct run from Kiosk to AFC Panel is</li> <li>An AFC Installation plan is not available for this n</li> </ul>					
	Sign Off				
GFP Representa	GFP Representative WMATA PRGM				
Name: Mike Butler					
Signature: M.Zun					
Date: 11/14/2014					

Photo #1 – Power duct run from Kiosk to Handhole on mezzanine floor.

