

# **ELECTRICAL AND DATA CABLE INSTALLATION**

for

**Washington Metropolitan Area Transit Authority** 

**Contract Number FQ17021** 

**VOLUME 4** 

# Pre-Inspection Reports Part 2b Green and Yellow Lines

November 13, 2016

**Final Submission** 

## WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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### **Pre-Inspection Mezzanine Walkthrough Checklist** Date: 10/09/2014 Station Name: C09 Crystal City Mezzanine # 045 Completed By: Tino Sahoo Room Check Task Equipment **Notes** ID C302 S.O. Request: Flectrical Source Panel Name/Number: M. SOURCE PANELS: SWBD FB4 (AFC Source): SWBD Verify electrical power design FB1 and SWBD FB2 (Common Trough Source SWBDS.) Source Breaker Name/Number: $\checkmark$ matches the field/record. Circuit #17 C302 Identify locations of the electrical equipment. Electrical AFC Panel Name/Number: Panel 2MM C302 Breakers: Panel M (Circuit #8) on SWBD FB4 (West Side); Panel Is there a disconnect switch Disconnect Name/Number: N/A 1MPO (Circuit #3) on SWBD FB1 (East Side); Panel connected to the AFC electrical **√** 2MPO (Circuit #1) on SWBD FB1 (East Side); Panel power panel? Low or High voltage SMNT/POWR escorts: HIGH Voltage 4MPO (Circuit #7) on SWBD FB2 (East Side) SMNT/POWR escorts required? Shared trough for feed panels located at Track #2 East Check if there is a shared and West ends. Panels "M". "1MPO". "2MPO". "4MPO". Do AFC Panel loads feed into a shared raceway between AFC Panel raceway e.g. trench or trough? If Yes, **√** and "2MM" feed into trough. YES (see notes) and Kiosk and identify additional specify source panels in notes. source panels to de-energize Identify the assumed pathway of the PLNT 🗸 ELES $\Pi$ COMM / IT duct, the location of the handholes. П RAIL **CMNT** manholes and boxes and **√** accessibility or special escort Other Access/Support: MECH (Chiller Plant Access) requirement? Required PLNT Support for Transition may be very difficult. Need Mech escort for YES (see notes) handhole/manhole access? access to room C206 (Chiller Plant); junction box inside Identify handhole or manhole access $\checkmark$ this room. requirement. Identified Conduit/Duct YES Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC $\checkmark$ **√** electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP** Representative WMATA PRGM Tino Sahoo Name: Signature: Date:

Photo #1: C09 Crystal City – Common trough in Room C302

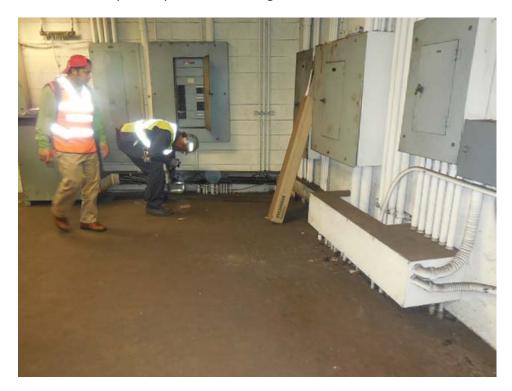


Photo #2: C09 Crystal City – AFC Panel 2MM feeding into common trough in Room C302



Photo #3: C09 Crystal City – AFC Panel 2MM feeding into common trough in Room C302



Photo #4: C09 Crystal City – Other panels feeding into common trough in Room C302



Photo #5: C09 Crystal City – Common trough in Room C302



Photo #6: C09 Crystal City – Common trough in Room C302



Photo #7: C09 Crystal City – Conduits top feeding into AFC panel 2MM



Photo #8: C09 Crystal City – Conduits and trough in machine room C206

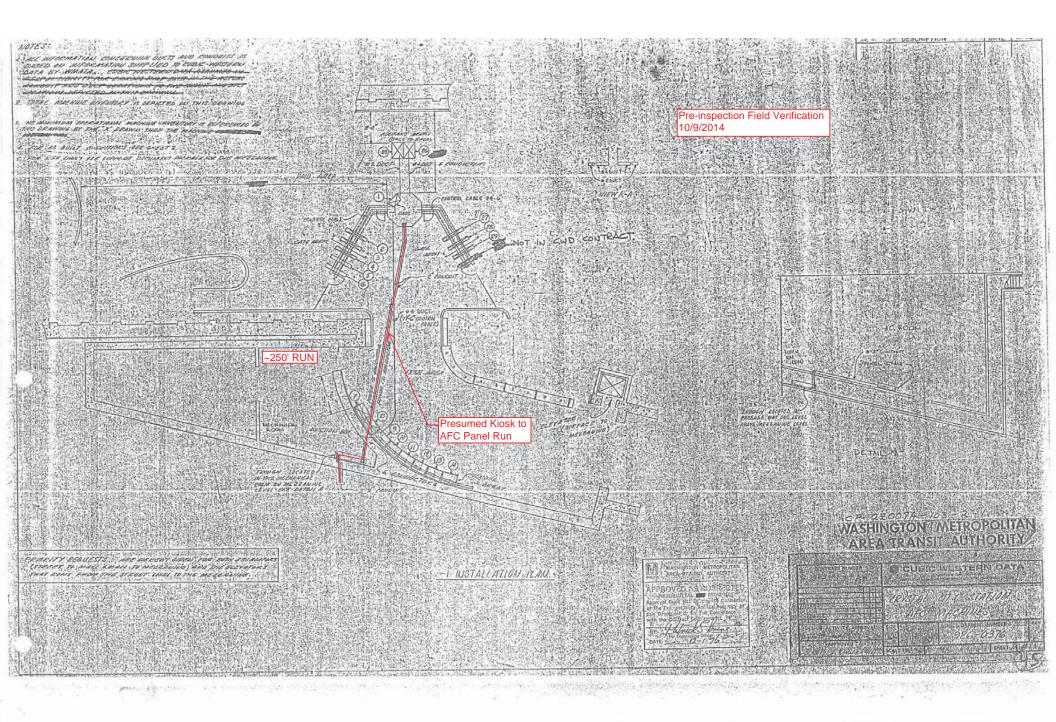


Photo #9: C09 Crystal City – Source breaker for AFC Panel 2MM on Panel M



Photo #10: C09 Crystal City – Source breakers on Panel FB1 for panels feeding into common trough





Pre-inspection Field Verification 10/9/2014

AMPERES: 300	VOLTS:	120/208		MOU	NTING:	SURE/	CE			
MANS: 200AMCB	PHASE:	3		LOCA	J'ON:	ELEC.	EQUIPM	MENT RO	OM C30	1
RATING: 10KAIC		4		SECT	10N: 1					· V
	11111111	CKT	KRS	CKT.		скт.	CKT	FICES		
LOAD DESCRIPTION	I KVA	AMP	POLE			NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.8	20	1	1	A	2	1	20	0.B	EXIST ING VENDOR
EXISTING VENDOR	0,8	20	1	3	- 8 -	4	1	20	0,8	EXIST ING VENDOR
EXISTING VENDOR	0.8	20	1	5	0	8	4	20	0.0	SPARE
EXISTING VENDOR	0,8	20	1	7	A	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	8,0	20	1	9	- B -	10	1	20	0.8	EXIST ING VENDOR
EXIST ING VENDOR	0.8	20	1	11	C	12	1	20	0.0	SPARE
EXISTING VENDOR	0,8	20	1	13	A	14	1	20	0.8	EXIST ING VENDOR
EXISTING VENDOR	0,8	20	1	15	- B -	18	1	20	0.9	EXIST ING VENDOR
EXISTING VEYDOR	9.8	20	1	17	C	18	1	20	0,8	EXISTING VENDOR
EXECUTE VENDOR	0,8	20	1	19	A	20	1	20	0.8	EXISTING VENDOR
EXIST ING VENDOR	0.8	20	1	21	- B -	22	1	20	0,8	NEW KIOSK RECEPT. (IT & NEPP)
EXISTING VENDOR	0.8	20	1	23	C	24	1	20	0.0	SPARE(KIOSK)
EXISTING VENDOR	0.8	20	1	25	A	28	1	20	0,0	SPARE
EXETING VENDOR	0.8	20	1	27	- B -	28	1	20	0.0	SPARE
EXISTING VENDOR	0,8	20	1	29	C	30	1	20	0,0	SPARE
EXISTING VENDOR	0.8	20	1	31	A	32	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	33	- B -	34	1	20	0.0	SPARE
SPACE	9.0	-	-	35	C	38	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	37	A	38	3	30	2.9	EXIST , KIOSK LOAD CENT ER "KES"
SPARE	0.0	20	1	39	- B -	40	-	-	2.5	
SPARE	0.0	20	1	41	C	42	-		2,5	1
NOT	ES: 1. CONN	ECT NEV	FEED	ERTO	EQ5TEN	G SPAF	E 20A	1P CB		
			LC	DAD	SUN	IMA	RY	_		
			40.00	6				• • • • • • • • • • • • • • • • • • • •	0.0	KVA
LIGHTS		0.0	x 1259						101	I KVA
LIGHTS RECEPTACLES, FIRST 10 KVA			x 1259							I IVVA
		19.0	-	6						KVA
RECEPTACLES, FIRST 10 KVA		19,0	x 1001	6					8.4	
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC. APPLIANCES		10.0 12.8 0.0	x 1009 x 50% x 1009	6					8.4 0.0	KVA KVA
RECEPTACLES, FIRST 10 XVA RECEPTACLES MISC. APPLIANCES LARGEST MOTOR		10.0 12.8 0.0	x 1009 x 50% x 1009 x 1259	6					8.4 0.0	KVA KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC. APPLIANCES LARGEST MOTOR WOTORS		10.0 12.8 0.0 0.0	x 1009 x 50% x 1009 x 1259 x 1009	6 6 6					8.4 0.0 0.1 0.1	KVA KVA KVA
RECEPT ACLES, F.RST 10 XIA RECEPT ACLES MISC. APPLIANCES LARGEST MOTOR WOTORS		10.0 12.8 0.0 0.0 0.0 3.0	x 1009 x 50% x 1009 x 1259 x 1009 x 1259	6 6 6					0.0 0.0 0.0 0.0 0.0 0.0 0.0	KVA KVA KVA KVA
RECEPT ACLES, FIRST 10 XVA RECEPT ACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT		10.0 12.8 0.0 0.0 0.0 3.0 4.5	x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009	6 6 6 6					6.4 0.0 0.1 0.1 0.1 3.1 4.5	KVA KVA KVA KVA KVA
RECEPT ACLES, FRIST 10 MA RECEPT ACLES MISC. APPLIANCES ARGEST MOTOR MOTORS MEAT AC MATER HEATING		10.0 12.8 0.0 0.0 0.0 4.5	x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009	6 6 6 6	TO-	N DES	sam w		6.4 0.0 0.1 0.1 3.1 0.1	KVA KVA KVA KVA KVA KVA
RECEPT ACLES, FRIST 10 MA RECEPT ACLES MISC. APPLIANCES ARGEST MOTOR MOTORS MEAT AC MATER HEATING		10.0 12.8 0.0 0.0 0.0 4.5	x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009	6 6 6 6			IAND K		6.4 0.0 0.0 0.0 3.6 4.5 0.0 24.1	KOZA KOZA KOZA KOZA KOZA KOZA KOZA KOZA
RECEPT AD LES, FRIST 10 MA RECEPT AC LES MISC. APPLIANCES LAGGEST MOT OR MOT OR S HEAT KO MATER HEATING TOTAL CONNECTED LOAD	IMARY	10.0 12.8 0.0 0.0 0.0 4.5	x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009	6 6 6 6			iand K		6.4 0.0 0.0 0.0 3.6 4.5 0.0 24.1	KVA KVA KVA KVA KVA KVA
RECEPT ACLES RECEPT ACLES MISS. APPLIANCES LARGEST MOTOR MOTORS MEAT MOTORS MOT	IMARY	10.0 12.8 0.0 0.0 0.0 3.0 4.5 0.0 30.3	x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009	6 6 6 6					6.4 0.0 0.0 0.0 3.6 4.5 0.0 24.1	KOZA KOZA KOZA KOZA KOZA KOZA KOZA KOZA
RECEPT ACLES, FIRST 10 XVA RECEPT ACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT	IMARY	10.0 12.8 0.0 0.0 0.0 3.0 4.8 0.0 30.3	x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009 x 1259 X 1009	6 6 6 6					6.4 0.0 0.0 0.0 3.6 4.5 0.0 24.1	KOZA KOZA KOZA KOZA KOZA KOZA KOZA KOZA

NOTES: A EXISTING PANEL "ZUMM" IS FED FROM 277/480V, 36, 4W EXISTING PANEL "M" LOCATED IN ELEC. EQUIPMENT RM. C302, CIRCUIT \$17-250A/3P VIA 150KVA TRANSFORMER.

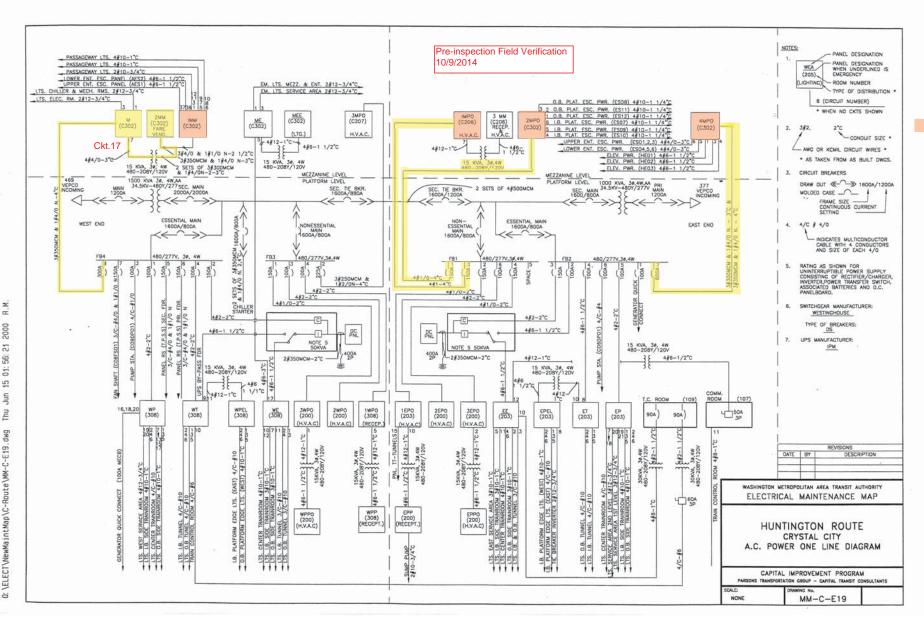
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY: \* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).

EXISTING WIRING FED FROM TOP OF PANEL BY:

• 4-1 1/2" C. (3-WIRING FILL >40%)(1-WIRING FILL >20%).

14-FQ10060-CENI-24

	REFERENCE DRAWINGS REVISIONS			WASHINGTON METROPOLITAN AREA	A TRANSIT ALITHORITY	NEW ELECTRONIC PAY PROGRAM (NEPP)					
DESIGNED		DATE	NUMBER DESCRIPTION	DATE	BY	DESCRIPTION	1400 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IN METRORAIL STATIONS `		
5.0		DATE					DEPARTMENT OF TRANSIT INFRASTRUCTURE  AND ENGINEERING SERVICES	JOINT VENTURE	CN	YSTAL CITY	
CHECKED		DATE		_			OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM			L SCHEDULE	
APPROVED	, MA	DATE					APPROVED SUBMITTE	TED PROJECT MANAGER		C09-E-102	_



= Panels that feed into common trough and need to be de-energized

### **Pre-Inspection Mezzanine Walkthrough Checklist** Date: 10/07/2014 Station Name: C10 Reagan Airport South Mezzanine # 046 Completed By: Tino Sahoo Room Check Task Equipment Notes ID Source Panel: SLE (AFC Source Panel) (Rm C116) C116 Electrical Source Panel Name/Number: Panel SLE Breakers: Circuit #1 on Panel SLE Verify electrical power design Disconnect switch 'Train Control Power' Circuit #1 Source Breaker Name/Number: $\checkmark$ matches the field/record. C116 Affected Panels: Disconnect switch 'Train Identify locations of the F (Rm C108) AFC Panel Control Power' electrical equipment. Train Control Power Panel (Rm C108) Electrical AFC Panel Name/Number: F, Train Control Power Panel C108 Is there a disconnect switch Disconnect Name/Number: N/A connected to the AFC electrical **√** power panel? Low or High voltage SMNT/POWR escorts: LOW Voltage SMNT/POWR escorts required? Shares trough with Train Control Power Panel which is Check if there is a shared sourced from Panel SLE Circuit #10 or has 'Train Do AFC Panel loads feed into a shared raceway between AFC Panel raceway e.g. trench or trough? If Yes, Control Power' Disconnect Switch. **√** YES (see notes) and Kiosk and identify additional specify source panels in notes. source panels to de-energize Identify the assumed pathway of the PLNT 🗸 ELES $\Pi$ COMM / IT duct, the location of the handholes. П RAIL **CMNT** П manholes and boxes and **√** accessibility or special escort Other Access/Support: ATC requirement? Required PLNT Support for All conduits/duct on same level. YES (see notes) handhole/manhole access? Identify handhole or manhole access $\checkmark$ requirement. Identified Conduit/Duct YES Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC $\checkmark$ **√** electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP** Representative WMATA PRGM Tino Sahoo Oscar Ilgan Name: Signature: 10/07/14 Date:

Photo #1: C10 Reagan Airport South – Handholes at Mezzanine & Kiosk

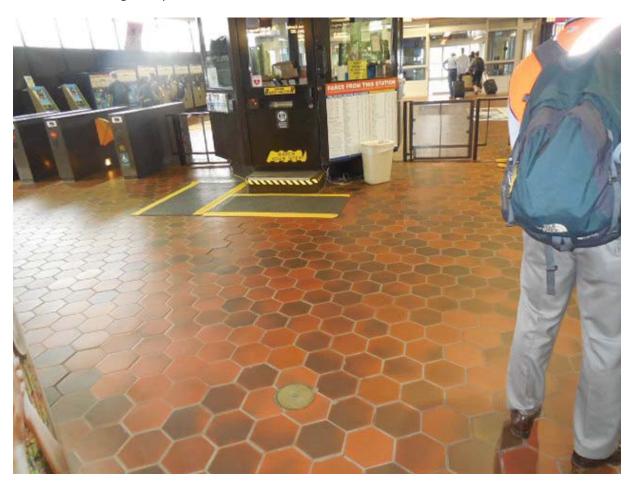


Photo #2: C10 Reagan Airport South – Handholes in hallway to Station Facility Rooms

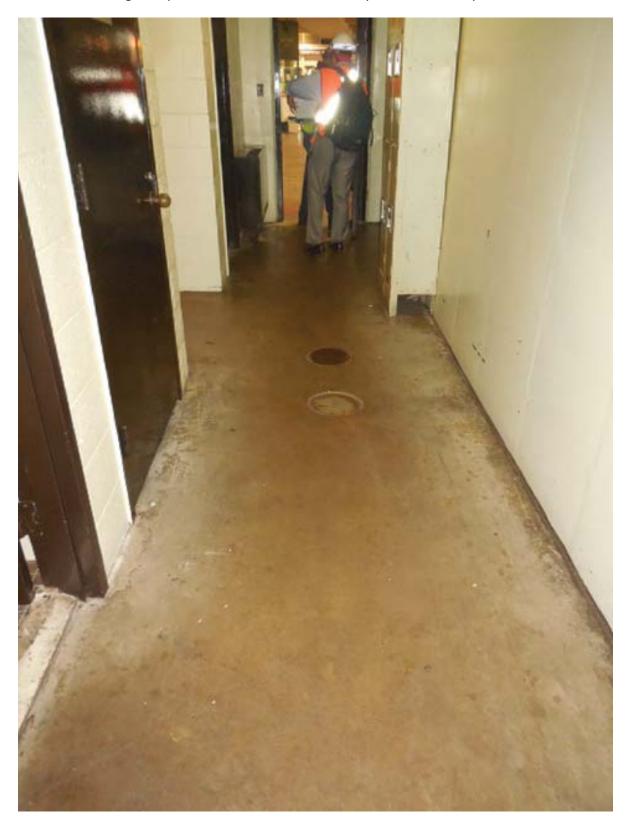


Photo #3: C10 Reagan Airport South – Panel SLE in Room C116



Photo #4: C10 Reagan Airport South – Panel SLE Schedule

The	PANEL SLE SPECIAL SERVICES	DIV
	24 HOUR EMERGENCY-T	ESTI
CIR. NO.	SERVING	CIR NO.
1	Panel F	V
2		1
25	Train Control Rm. #5 (Spare)	
4	Spare	
25	Next Train its. Inbound Track	
6	Fut. (Next Train Lts.) Inbound	
7	Next Train Lts. Inbound Track	
	Fut. (Next Train Lts.) Inbound	
8	Cana	
9	Spare	

AMPERES: 225	VOLTS:	120/206		MOUN	ITING:	SURF#	CE			
MAINS: 225AMCB	PHASE:	3		LOCA	NON:	ELEC	EQUIPM	ENT RAI	.119	
RATING: 10KAC	WRE	4		SECT	ON: 1	OF 1				
		CKT E	KRS	CKT.		CKT.	CKT	SKRS		
LOAD DESCRIPTION	KVA	HIP	POLE	NO.		NO.	POLE	AMP	KA	LOAD DESCRIPTION
SPARE	0.0	20	1	1	A	2	3	20	3.3	EXIST. LOAD CENTER 'KES'
EXIST NA VENDOR	8.0	20	1	3	- B -	4	- 1	-	3.3	_
EXIST ING VENDOR	0.8	20	4	5	~ - C	6	- 1	-	33	
EXISTING VENDOR	0.8	20	1	7	A	8	3	20	0.8	EXISTING VENDOR
SPARE	0,0	20	1	9	- B -	10	-	-	0.8	
SPARE	0.0	20	1	11	0	12	-	-	0.8	
EXISTING VENDOR	0.8	20	1	13	A	14	1	26	3.0	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	C	18	1	20	3.0	EXISTING VENDOR
EXISTING VENDOR	8.0	20	. 1	19	A	20	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	8.0	20	1	23	C	24	1	20	0.0	SPARE
EXIST ING VENDOR	0.8	20	4	25	A	26	1	20	0.8	NEW KLOSK RECEPT. (IT & NEPP)
EXIST ING VENDOR	0.8	20	1	27	- B -	28	1	20	0.0	SPARE (KIOSK)
SPARE	0.0	20	1	29	- · C	30	1	20	0.0	SPARE
EXIST ING VENDOR	0.8	20		31	A	32		- 4	0.0	SPARE
SPARE	0.0	20	1	33	- B -	34	-	-	0.0	SPARE
EXISTING VENDOR	0.8	20	1	35	C	35	-	-	0.0	SPARE
EXIST ING VENDOR	0.8	20	1	37	A	39	-	_	0.0	SPARE
EXIST IN & VENDOR	0.8	20	1	39	- 8 -	40	-	-	0.0	SPARE
EXIST ING VENDOR	0.8	20	1	41	C	42	-		0.0	SPARE
	ES: 1. CONN	ECT NEV	FEED	ER TD			E 20A	19 68		
			LC	DAD	SUN	ЛМА	RY			
центв	-	0.0	L(		SUN	IMA	RY		-	) KVA
	-	-		ě.	SUM	IMA	RY		-	) KVA
RECEPT ACLES, FIRST 10 KVA		10.0	x 1255	£.	SUM	IМА	RY	- 4004	101	
RECEPTACLES, FIRST 10 KVA RECEPTACLES	***	10.0	x 1265 x 1005	¥.	SUM	IMA	RY		10.0	KVA
LIGHTS RECEPT ACLES, FIRST 10 KVA RECEPT ACLES HISCA REPLANCES LARGEST MOT OR		12.4	x 1255 x 1005 x 5056	6 6	SUM	/MA	RY	***************************************	10.0 6.2	I K <mark>VA</mark> 2 KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES		10.0 12.4 0.0	x 1265 x 1005 x 50% x 1009	£.	SUN	ЛМA	RY		62	) kva 2 kva J kva
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC, APPLIANCES LARGEST MOT OR MOT ORS	- <b>2</b> - 2 - 2 - 2	10.0 12.4 0.0 0.0	x 1255 x 1005 x 50% x 1009 x 1259	£ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SUM	ИMA	RY		000	D KVA E KVA D KVA D KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT	- <b>3</b> -1	10.0 12.4 0.0 0.0 0.0	x 1269 x 1009 x 50% x 1009 x 1259 x 1009	£	SUN	/MA	RY		01	) KVA 2 KVA 3 KVA 0 KVA 0 KVA
RECEPTACLES, FIRST 10 KWA RECEPTACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC		10.6 12.4 0.6 0.6 0.6 3.6 4.5	x 1255 x 1005 x 50% x 1005 x 1005 x 1255 x 1255	£ 6 6 6 6 6 6	SUN	/MA	RY		10.0 6.2 0.0 0.0 0.0 3.1	) KVA 2 KVA 0 KVA 0 KVA 0 KVA 8 KVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING		10.6 12.4 0.6 0.6 3.6 4.5	x 1257 x 1009 x 50% x 1009 1 x 1259 1 x 1259 1 x 1259 1 x 1259 1 x 1259	£ 6 6 6 6 6 6			RY	•	10.0 6.2 0.0 0.0 0.0 3.1 4.3	I KVA 2 KVA 1 KVA 1 KVA 1 KVA 5 KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES LARGEST MOT OR MOT ORS HEAT AC WAYER HEATING TOTAL CONNECTED LOAD	imady.	10.6 12.4 0.6 0.6 3.6 4.5	x 1259 x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009 x 1259 x 1009	£ 6 6 6 6 6 6	TOT	AL DE			10.0 6.2 0.0 0.0 0.0 3.1 4.5 0.0	IKVA IKVA IKVA IKVA IKVA IKVA IKVA IKVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISC. APPLIANCES LARGEST MOT OR MOT ORS MEAT AC VIATER HEATING TOTAL COMMECTED LOAD COMMECTED LOAD PHASESUM	IMARY	10.6 12.4 0.6 0.6 3.0 4.5 0.6 29.1	x 1255 x 1005 x 50% x 1005 x 1259 x 1005 x 1005	£ 6 6 6 6 6 6	TOT	AL DE	JAND K		10.0 6.2 0.0 0.0 0.0 3.1 4.5 0.0	I KVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING	IMARY	10.6 12.4 0.0 0.6 3.0 4.5 29.1	x 1259 x 1009 x 50% x 1009 x 1259 x 1009 x 1259 x 1009 x 1259 x 1009	£ 6 6 6 6 6 6	TOT	AL DE	JAND K		10.0 6.2 0.0 0.0 0.0 3.1 4.5 0.0	I KVA

NOTES: A EXISTING PANEL "F" IS FED FROM 277/480V, 39, 4W EXISTING PANEL "HIN1" LOCATED IN ELEC. EQUIPMENT 119, CIRCUIT #25-150/SP VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E22).

- B. Existing wiring FeD from Bottom of Panel By: \* 2-6 1/2°x 1 1/2° Floor duct (1-Wiring Fill >40%)(1-Wiring Fill >10%). \* 3-1/2° C. (2-Wiring Fill >40%)(1-EMPTY CONDUIT).

- Existing wring fed from top of panel by: = 1-4" c. to transformer (wiring fill >40%). = 3-1/2" c. (wiring fill >40%).
- = 1-#12 WIRING.

AMPERES: 225	VOLTS:	120/208		MOUN	IT ING:	SURF	CE				1
MANS: 200AMCB	PHASE	3		LOCA	TION:	ELEC.	EQUIPA	AENT RM	.C108 .	/	1
RATING: 10KAIC	WRE:	4		SECT	ON: 1	OF 1					1
		CKT B	KRS	CKT.		CKT.	СКТ	B/R9			1
LOAD DESCRIPTION	KVA	AMP	POLE	NO.		NO.	POLE	AMP	KWA	LOAD DESCRIPTION	1
EXISTING VENDOR	0.8	20	1	1	A	2	1	20	0.8	EXISTING VENDOR	1
EXISTING VENDOR	0.8	20	1	3	- B -	-4	1	20	0,8	EXISTING VENDOR	1
EXIST ING VENDOR	0.6	20	1	5	C	6	1	20	0.8	EXISTING VENDOR	1
EXISTING VENDOR	A.O	20	1	7	A	8	1	20	CB	EXISTING VENDOR	1
EXISTING VENDOR	0.0	20	1	9	- B -	10	1	20	0.B	EXISTING VENDOR	1
EXISTING VENDOR	0,6	20	1	11	C	12	1	20	0.B	EXISTING VENDOR	1
EXISTING VENDOR	0.0	20	.1	13	A	14	1.	20	0,8	EXISTING VENDOR	1
EXPETING VENDOR	0.8	20	1	15	- B -	18	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	17	C	18	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	0.8	EXIST ING VENDOR	
SPARE	0.0	20	1	21	- B -	22	1	20	0.8	NEW KIOSK RECEPT. (IT ANEPP)	1
EXISTING VENDOR	0,8	20	1	23	C	24	1	20	0.0	SPARE (KIOSK)	18.2
EXISTING VENDOR	0.8	20	1	25	A	26	1	20	0,0	SPARE	
EXISTING VENDOR	0.8	20	1	27	- 8 -	28	1	20	0.0	SPARE	]
EXISTING VENDOR	0.8	20	1	29	0	30	1	20	0.0	SPARE	]
EXISTING VENDOR	0.8	-		31	A	32	1	20	0.0	SPARE	]
SPARE	0.0	-	-	33	- B -	34	1	20	0.0	SPARE	]
SPAP.E	35	-	-	35	G	36	1	20	0.0	SPARE	
EXISTING VENDOR	0.0	-	-	37	A	38	3	30	2.9	EKIST LOAD CENTER 'KES"	
SPARE	0.0	-	-	39	- B -	40	-		25		
ERIST ING VENDOR	0,8	-	-	41	C	42	-	-	25		]
	2. CB TC	9E RE9								_	
			L	DAC	SUN	amn	RY				}
LICHTS		0,0	x 125	%					0.	) KVA	٦.
RECEPT ACLES, FIRST 10 KVA		10,0	x1009	%					10.	3 KVA	1
RECEPT ACLES		128	x50%	,					8.	I KVA	1
MISC APPLIANCES		0,0	x1001	96					0	3 KVA	1
LARGEST MOTOR		0.0	x125	%					0.	) KVA	1
MOTORS		0.0	x100	%					0	D KVA	
HEAT			x125						3.	B KVA	1
AC			x100							5 KWA	1
WATER HEATING			x 125							D KVA	1
TOTAL CONNECTED LOAD			KVA		TOT	AL DEI	AAND N	TVA.		7 KVA	1
IO IAL CONNECTED LOAD		962	nva			AL DEI				S AMPS	1
CONNECTED LOAD PHASE SUI	MMARY										1
PHASEA:		11.7	AVX								
FINDER.			IOVA								1

NOTES: A EXISTING PANEL "T" IS FED FROM 120/208V, 36, 4W EXISTING SWBD. "SLE" LOCATED IN AC SWBD. BATTERY RM. C116, "CIRCUIT \$2-200/3P (SEE ATTACHED DWG. MM-C-E22).

- CIRCUIT #1

  B. EXISTING WRING FED FROM TOP OF PANEL BY:

  1-3/4" C. (WIRING FILL >40%).

  1-#12 WIRING.

EXISTING WIRING FED FROM BOTTOM OF PANEL BY:  $^{\circ}$  2-4° C. TO TRANSFORMER (WIRING FILL >40%).

Pre-inspection Field Verification 10/07/2014

14-FQ10060-CENI-24

		REFERENCE DRAWINGS			REVISIONS	L
DESIGNED C NGO 09-1		DESCRIPTION	DATE	BY	DESCRIPTION	1
DRAWN C NGO 09:1						1
CHECKED 8 IDILBI 09:1	14					1
APPROVED N/A						1
	-					_

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED -

PHASE B:

PHASEC:

JOINT VENTURE SUBMITTED PROJECT MANAGER

AVX C.8

9.7 KVA

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS NATIONAL AIRPORT - NORTH & SOUTH PANEL SCHEDULES

NOT TO SCALE C10-E-102

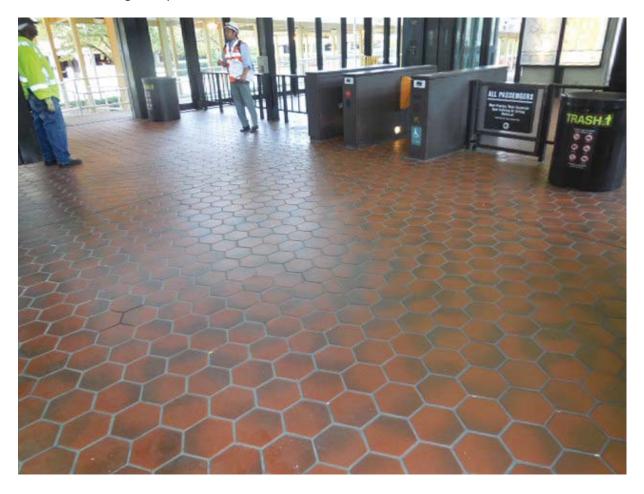
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### **Pre-Inspection Mezzanine Walkthrough Checklist** Date: 10/07/2014 Station Name: C10 Reagan Airport North Mezzanine # 093 Completed By: Tino Sahoo Room Check Task **Equipment Notes** ID 119 Emergency circuits are: Flectrical Source Panel Name/Number: HM1 Circuits 2,4,6 of source panel LM1 to de-energize KES Verify electrical power design Panel. Source Breaker Name/Number: **√** matches the field/record. 'PNL F TS' 119 Disconnect switch for Panels EMH Sect 1 and EMH Identify locations of the Sect 2. electrical equipment. \*\*Neither of these could be verified or found in field. Electrical AFC Panel Name/Number: 119 S.O.: Is there a disconnect switch Disconnect Name/Number: N/A Source Panels: connected to the AFC electrical **√** HM1 (Rm 119) AFC Source Panel power panel? Low or High voltage SMNT/POWR escorts: HIGH and LOW LM1 (Rm 119) KES Source Panel SMNT/POWR escorts required? EMH Sect 1 (Rm 119) KE (Kiosk) Source Panel EMH Sect 2 (Rm 119) KE (Kiosk) Source Panel Check if there is a shared Do AFC Panel loads feed into a shared Breakers: raceway between AFC Panel raceway e.g. trench or trough? If Yes, **√** NO C106 'PNL F TS' of Panel HM1 and Kiosk and identify additional specify source panels in notes. Circuits 2,4,6 of Panel LM1 source panels to de-energize 'Disconnect Switch' for Panels EMH Sect 1 and EMH Sect 2. Identify the assumed pathway of the PLNT 🗸 ELES $\Pi$ COMM / IT Affected Panels: duct, the location of the handholes. П RAIL **CMNT** П F (AFC Panel) manholes and boxes and **√** KES (Kiosk Panel) in Kiosk accessibility or special escort Other Access/Support: AFC KE (Kiosk Panel) in Kiosk requirement? Required PLNT Support for All conduits/duct are on same level. YES (see notes) handhole/manhole access? Identify handhole or manhole access $\checkmark$ requirement. Identified Conduit/Duct YES Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC $\checkmark$ **√** electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP** Representative WMATA PRGM Tino Sahoo Name: Signature: 10/07/14 Date:

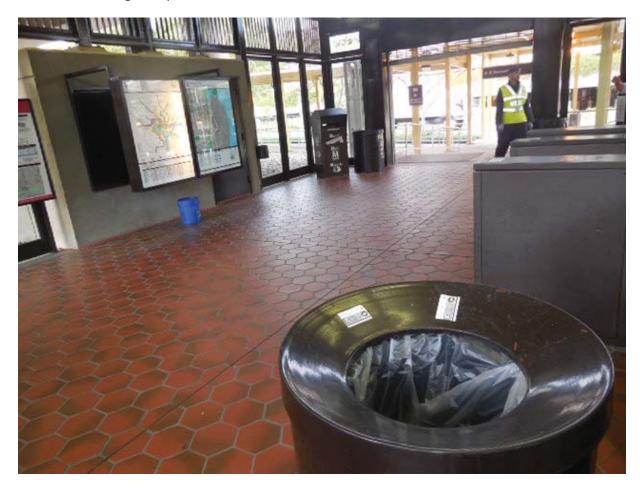
Picture 1: C10 Reagan Airport North – Handhole at Mezzanine



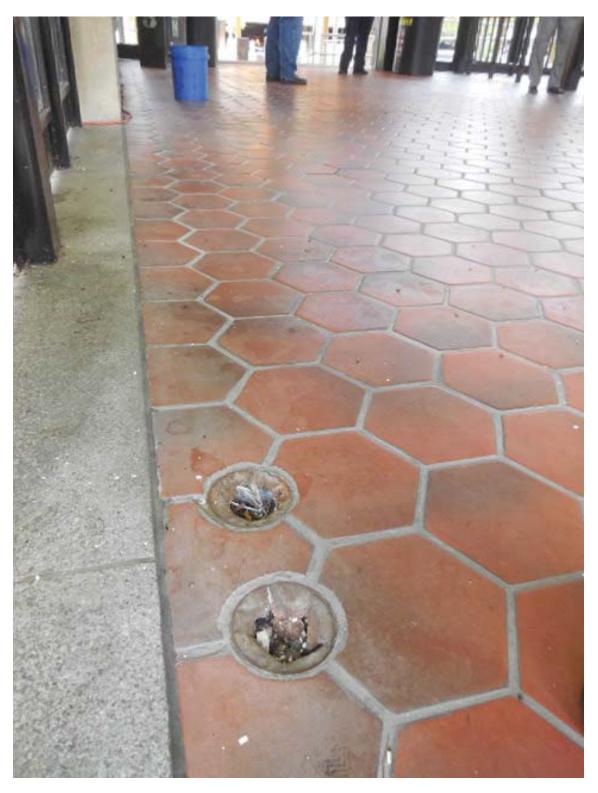
Picture 2: C10 Reagan Airport North – Handholes at Mini-Mezzanine



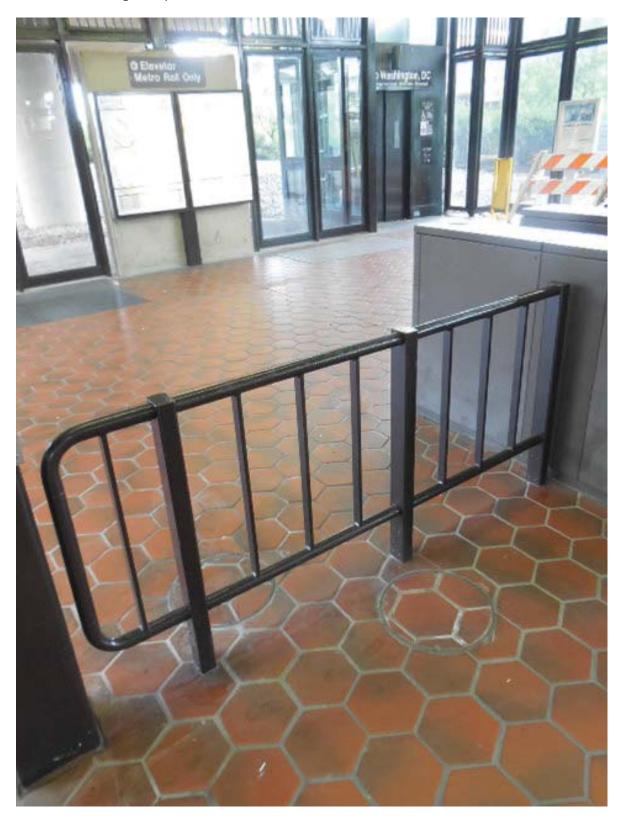
Picture 3: C10 Reagan Airport North – Handholes at Mini-Mezzanine



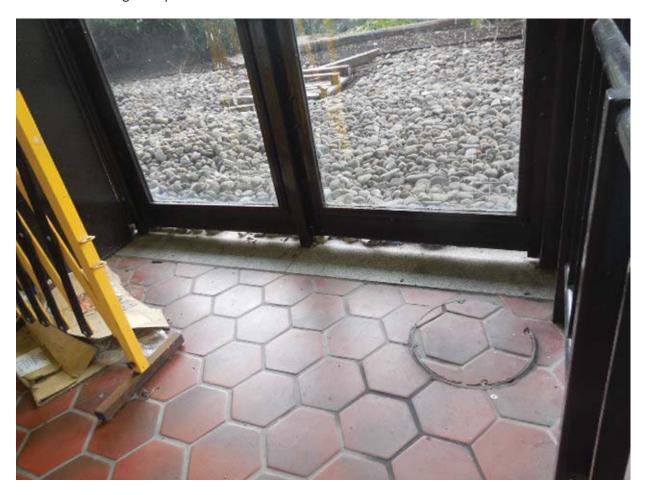
Picture 4: C10 Reagan Airport North – Handholes at Mini-Mezzanine



Picture 5: C10 Reagan Airport North – Handholes at Mini-Mezzanine



Picture 6: C10 Reagan Airport North – Handholes at Mini-Mezzanine



Picture 7: C10 Reagan Airport North – Handhole in Room 119



Picture 8: C10 Reagan Airport North – Panel F in Room 119



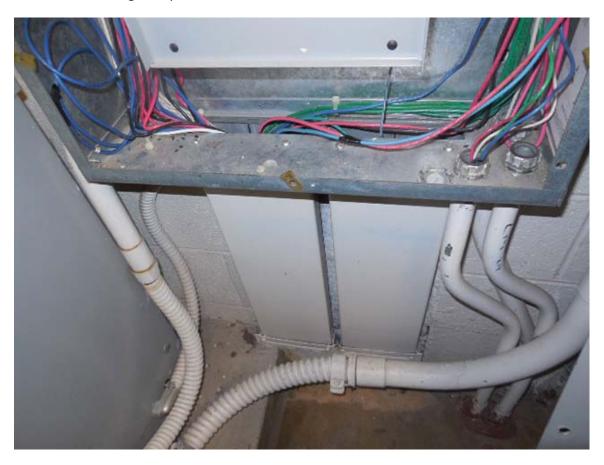
Picture 9: C10 Reagan Airport North – Panel F in Room 119



Picture 10: C10 Reagan Airport North – Panel F Schedule

The second secon	SENTIAL	
UDLTAG	E: 120/200	
PHASE 3 PHASE	WIRES 4 WIRE	
1 TICKET DISPENSER	ESC 3&4 SIDE LIGHTS	2
3 T-BANK	ESC 3&4 SIDE LIGHTS	4
6 T-BANK	ESC 3&4 SIDE LIGHTS	-6
7 EF-M-6	ESC 1&2 SIDE LIGHTS	8
9	ESC 182 SIDE LIGHTS	10
11	ESC 182 SIDE LIGHTS	12
13 FAREGATE 8 20	VE (DOR # 30	14
16 FAREGATE # 19	OR # 50	16
17 FAREGATE # 18	VI. 2 / 51	18
19 SPARE	ST PIDS ZZ-	20
21 - FAREGATE # 13	Con sas de de	22
23 FAREGATE # 12	Mediava T	11100
25 FAREGATE # 11	SP SP	24
27 FAREGATE # 10	SP	26
29 SPARE	SP	28
31 - VENDOR START COL	SP	30
23 VENDOR # 35	SP	32
36 VENDOR # 34		34
37 VENDOR # 33	SP	36
VENDOR # 37	SP	38
VENDOR # 31	59	40
3	SP	
The state of the s		42

Picture 11: C10 Reagan Airport North – Panel F – Ducts below Panel



Picture 12: C10 Reagan Airport North – Panel HM1 in Room 119

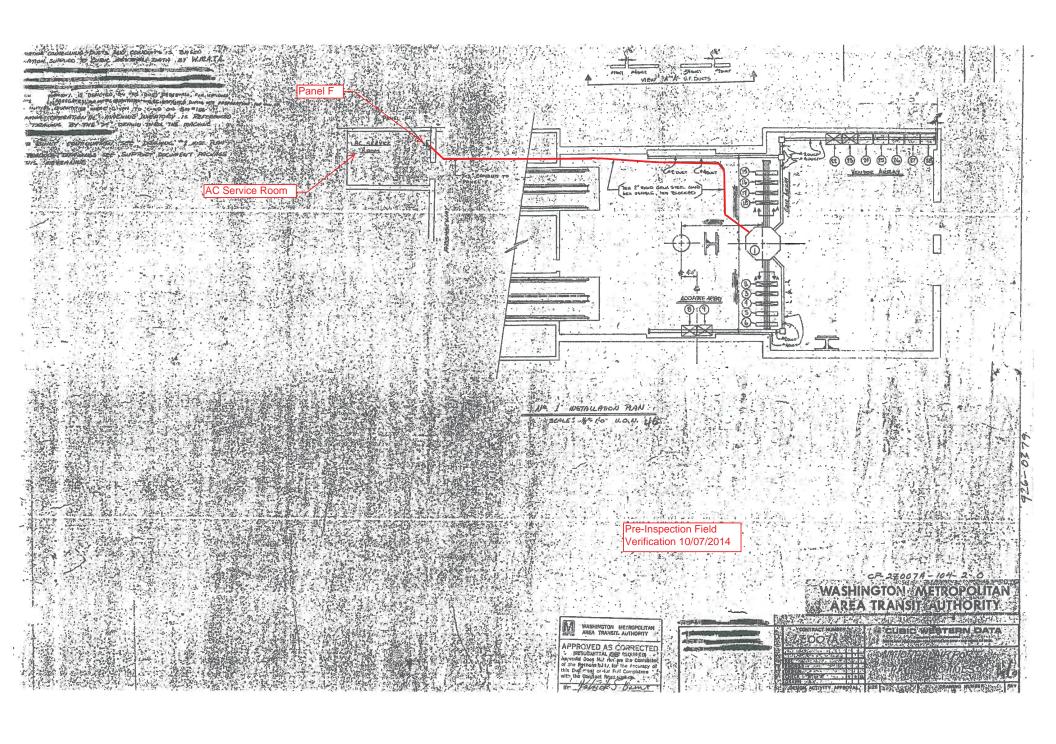


Picture 13: C10 Reagan Airport North – Panel HM1 in Room 119



Picture 14: C10 Reagan Airport North – Panel HM1 Schedule

HM1 E	ESSENTIAL	
	METRO	
PHASE: 3 PHASE	TAGE 120/206 WIRES: 4 WIRE	
1 CONCOURSE LTS	s	2
3 CONCOURSE LTS	S	4
6 CONCOURSE LTS	S	6
X CONCOURSE LTS	ES ATOR CANOPY LTS	8
9 RM 201	ES ATOR CANOPY LTS	10
11 S PANEL EC	ESCALATOR CANOPY LTS	12
13 S PANE BUIP A	PNL LM1 T-2	14
15		16
17	V	18
19	CRAWL SPACE LTS	20
21 -3 Panel WC		
23		22
25	-	24
27	***	26
29		28
31		30
13		32
		34
7		36



AMPERES: 125	VOLTS:	120/206		MOGR	TING:	SURF	CE			
MAINS: 225AMCB	PHASE:	3		LOCA	TION:	ELEC.	EQUIPM	ENT RAI	.119 🌙	
RATING: 10KAC	WIRE:	4		SECT.	ION: 1	OF 1				
		CKT	BKR8	CKT.		CKT.	CKT	SKRS		
LOAD DESCRIPTION	KVA	HIP	POLE	NO.	1	NO.	POLE	AMP	KA	LOAD DESCRIPTION
SPARE	0.0	20	1	1	A	2	3	20	3.3	EXIST LOAD CENTER 'KES'
EXIST ING VENDOR	8.0	20	- 1	3	- B -	4	-	-	3.3	
EXIST INDIVENDICA	0.8	20	1	5	C	6	-	-	3.3	
EXISTING VENDOR	0.8	20	1	7	A	B	3	20	0.8	EXISTING VENDOR
SPARE	0,0	20	1	9	- B -	10	-	-	0.8	
SPARE	0,0	20	1	11	0	12	-	-	0.8	
XIST ING VENDOR	8,0	20	1	13	A	14	1	20	3.0	EXISTING VENDOR
EXIST ING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	C	18	1	20	0.6	EXISTING VENDOR
EXISTING VENDOR	8.0	20	- 1	19	A	20	1	20	8.0	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	8.0	20	1	23	C	24	1	20	0.0	SPARE
EXIST IN & VENDOR	0.8	20	4	25	A	26	1	20	0.8	MEW KLOSK RECEPT. (IT & NEPP)
EXIST ING VENDOR	0.8	20	1	27	- B -	28	í	20	0.0	SPARE (KIOSK)
PARE	0.0	20	ŧ	29	C	30	1	20	0.0	SPARE
EXIST ING VENDOR	0.8	20	t	31	A	32	-		0.0	SPARE
SPARE	0.0	20	1	33	- B -	34	-	-	0.0	SPARE
EXIST ING VENDOR	0.8	20	1	35	0	35	-		0.0	SPARE
EXIST ING VENDOR	80	20	1	37	A	39	- 1	-	0.0	SPARE
EXIST IN & VENDOR	0.8	20	11.	39	- 8 -	40	-	-	0.0	SPARE
EXIST ING VENDOR	0.8	20	1	41	C	42	-	-	0.0	SPARE
	2. CB TO	BE RES			SUN		RY			
LIGHTS		61	0 x 125						0.0	KVA
RECEPT ACLES, FIRST 10 KVA		100.00	0 x 1005							KVA
RECEPT ACLES			x 50%							2 KVA
MISC APPLIANCES		_	0 x 1005							KVA
LARGEST MOTOR		_	0 x 1259							I KVA
MOTORS			0 x 100							1 KVA
		_	0 x 1259							I KVA
HEAT			_							i KVA
		_	5 x 1009							
		0.0	0 x 1259	6						3 KVA
WATER HEATING						AL UE	MAND N	NAME .	24.1	5 KVA
WATER HEATING		29.1	KVA		,		AAND A		67.5	AMPO
WATER HEATING TOTAL CONNECTED LOAD	MMARY	29.1	KVA		,		AAND A		67.1	AMPS
WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASESU	MMARY	1.1	9 KVA		,		AAND A		67.1	AMPS
AC WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASE SU PHASE A: PHASE B:	MMARY	11.			,		AAND A		67.1	AMPS

NOTES: A EXISTING PANEL "" IS FED FROM 277/480V, 34, 4W EXISTING PANEL "NAI" LOCATED IN ELEC. EQUIPMENT 119,-GIRGUE-PNLF TS (Circuit #25-)- 425-150/3P VA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E22).

- B. Existing wiring FeD from Bottom of Panel By: 2-6 1/2\*x 1 1/2\* Floor duct (1--Wiring Fill >40%)(1--Wiring Fill >10%). 3-1/2° C. (2--Wiring Fill >40%)(1--EMPTY CONDUIT).

- EXISTING WIRING FED FROM TOP OF PANEL BY: =  $1-4^{\circ}$  C, TO TRANSFORMER (WIRING FILL >40%). =  $3-1/2^{\circ}$  C. (WIRING FILL >40%). =  $1-\frac{9}{12}$  WIRING.

Pre-inspection Field Verification 10/07/2014

		EXIS	STIN	G P	ANE	L"F	"(Sc	outh)			
AMPERES: 225	VOLTS:	120/208		MOUN	IT ING:	SURF/	CE				1
MACHS; 200A MCB	PHASE	3		LOCA	TION:	ELEC.	EQUIPM	AENT RM	.C108		1
RATING: 10KAIC	W:RE:	4		SECT	ON: 1	OF 1					]
		CKT E	KRS	CKT.		CKT.	CKT	B/RS			7
LOAD DESCRIPTION	KVA	AMP	POLE	NO.		NO.	POLE	AMP	KWA	LOAD DESCRIPTION	7
EXISTING VENDOR	0.8	20	1	1	A	2	1	20	8.0	EXISTING VENDOR	1
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0,8	EXISTING VENDOR	7
EXISTING VENDOR	0.6	20	1	5	C	6	1	20	0.B	EXISTING VENDOR	7
EXISTING VENDOR	0.B	20	1	7	A	8	1	20	CB	EXISTING VENDOR	]
EXISTING VENDOR	0.0	20	1	9	- B -	10	1	20	0.B	EXISTING VENDOR	7
EXISTING VENDOR	0,6	20	1	11	C	12	1	20	0.8	EXISTING VENDOR	1
EXISTING VENDOR	0,0	20	.1	13	A	14	1.	20	0,8	EXIST ING VENDOR	1
EXISTING VENDOR	0.8	20	1	15	- B -	18	1	20	0.8	EXISTING VENDOR	7
EXISTING VENDOR	8,9	20	1	17	C	18	1	20	0.8	EXISTING VENDOR	1
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	0.8	EXIST ING VENDOR	7
SPARE	0.0	20	1	21	- B -	22	1	20	0.8	NEW KIOSK RECEPT. (IT ANEPP)	1
EXISTING VENDOR	0,8	20	1	23	C	24	1	20	0.0	SPARE(KIOSK)	182
EXISTING VENDOR	0,8	20	1	25	A	26	1	20	0,0	SPARE	7
EXISTING VENDOR	0.8	20	1	27	- 8 -	28	1	20	0.0	SPARE	]
EXISTING VENDOR	0.8	20	1	29	C	30	1	20	0.0	SPARE	7
EXISTING VENDOR	0.8	T-	-	31	A	32	1	20	0.0	SPARE	1
SPARE	0.0	-	-	33	- B -	34	1	20	0.0	SPARE .	
SPAPE	35	-	-	35	G	36	1	20	0.0	8PARE	]
EXISTING VENDOR	0.8	-	-	37	A	38	3	30	2.9	EXIST LOAD CENTER 'KES"	1
SPARE	0.0	-	-	39	- B -	40	-		25		]
ERIST ING VENDOR	0,8		-	41	C	42	-	-	25		
NOTE	8 1. CONN	BCT NEV	FEED	ER TO	EUSTIN	G BPAI	RE 20A,	1P CB			

2. C8 TO BE RESERVED FOR FUTURE AFC

	LOAI	SUMMARY		
LIGHTS	0.0 x 125%		D.D KVA	
RECEPT ACLES, FIRST 10 KVA	10,0 x100%		10.3 KWA	
RECEPT ACLES	128 x50%		8.4 KVA	
MISC. APPLIANCES	0.0 x 100%		D.O. KNA	
LARGEST MOTOR	0.6 x125%		OD KVA	
MOTORS	0.0 x100%		0 D KVA	
HEAT	30 x125%		3 B KVA	
AC	4.5 x100%		4.5 KWA	
WATER HEATING	0.0 x 125%		0.0 KWA	
TOTAL CONNECTED LOAD	AVN COE	TOTAL DEMAND KVA	24.7 KVA	
		TOTAL DEMAND AMPS	68.5 AMP9	
CONNECTED LOAD PHASE SUMMARY				
PHASEA:	11.7 KVA			
PHASEB:	AVX C.8			
PHASEC:	9.7 KVA			

NOTES: A EXISTING PANEL "F" IS FED FROM 120/208V, 34, 4W EXISTING SWBD. "SLE" LOCATED IN AC SWBD. BATTERY RM. C116, CIRCUIT ∮2-200/3P (SEE ATTACHED DWG. MM-C-E22).

- B. EXISTING WIRING FED FROM TOP OF PANEL BY:

  \* 1-3/4" C. (WIRING FILL >40%).

  \* 1-#12 WIRING.

EXISTING WIRING FED FROM BOTTOM OF PANEL BY:  $^{\circ}$  2-4° C. TO TRANSFORMER (WIRING FILL >40%).

14-FQ10060-CENI-24

				REFERENCE DRAWINGS	REVISIONS			1	WASHINGTON METROPOLITA	AREA TRANSIT AUTHORITY	NEW ELECTRONIC PAY PROGRAM (NEP		
DESIGNED	C NGO	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	l				RORAIL STATION	
DRAWN	C NGO	09 14 DATE						1	DEPARTMENT OF TRANSIT INFRASTRUCTURE  AND ENGINEERING SERVICES	JOINT VENTURE	INATIONALA	IRPORT - NORTH & NEL SCHEDULES	SOUTH
CHECKED	B IDILBI	09-14 DATE						1	OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM		SCALE	DRAWING NO	
APPROVE	N/A	DATE							APPROVED	SUBMITTED PROJECT MANAGER	NOT TO SCALE	C10-E-102	

			Pre	e-Inspection Mezz	anine Walkthroug	jh Check	list REVISION 1
Date:	10/07/2014		Station Name: C12 I	Braddock Road	Mezzanine #: MZ047	Complete	ed By: Tino Sahoo
Check		Та	sk	Equ	ipment	Room ID	Notes
			power design matches	Electrical Source Panel Name/Number:	SWBD #2	C111	
✓	the field/red electrical ed		y locations of the	Source Breaker Name/Number:	: "Panel F"	C111	
	olootiloai ot	quipinoni		Electrical AFC Panel Name/Number:	Panel F	C111	
<b>7</b>			itch is connected to the anel. Low or High	Disconnect Name/Number: N/A	•		
	voltage SMI	NT/POWR	escorts requirements?	SMNT/POWR escorts: HIG	SH AND LOW VOLTAGE		
<b>V</b>	Check if the AFC Panel source panel	and Kiosk a	red raceway between and identify additional e-energized.	Do AFC Panel loads feed into a raceway e.g. trench or trough? specify source panels in notes.			
Identify the assumed pathway of duct / conduit, the location of the handholes,		PLNT COMM/IT	☐ ELES ☐		One handhole in corridor at mezzanine level		
✓			the handholes, and accessibility or	RAIL CMNT			(cover loose)
	special esco	ort requiren	nent?	Other Access/Support:			
<b>V</b>	Identify handhole or manhole access		anhole access	Required PLNT Mason for handhole/manhole access?	NO		Conduit/duct transistion on multiple levels
]	requirement	t.		Identified Conduit/Duct Transition to mezzanine level?	YES		
Emerg	ency Power	Verification	on				
Check		Та	sk	Equ	ipment	Room ID	Notes
✓			I panel is connected fer Switch (ATS).	ATS Name/Number:			
				Source Panel Name/Number:	SEL	C111	
✓	Verification (KE, KES, R		mergency Panel(s)	Source Breaker Name/Number	Breaker #2	C11	
				Panel Name/Number:	KE	Kiosk	
Notes	and Discrep	pancies:					
Sign O	ff		GFP Represe	entative		WM	ATA PRGM
Name:	Т	ïno Sahoo					
Signat	ure: 2	armena	Daheo				
Date:		0/07/2014					

Photo #1: C12 Braddock Road – Mezzanine area

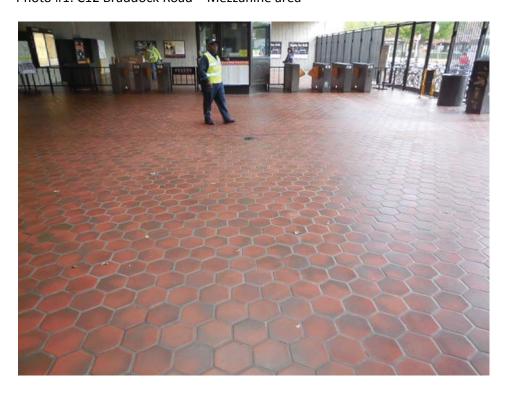


Photo #2: C12 Braddock Road – Handhole in Mezzanine area

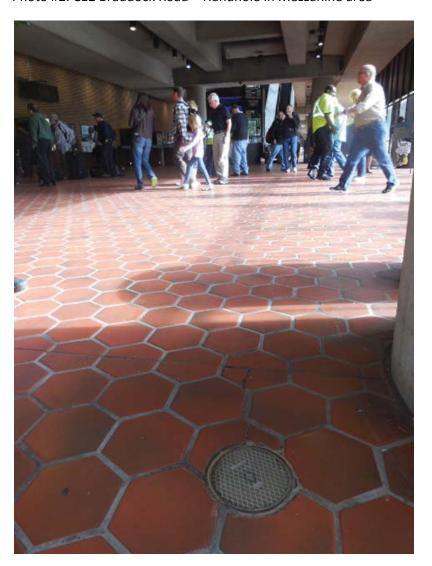


Photo #3: C12 Braddock Road – Handhole in corridor

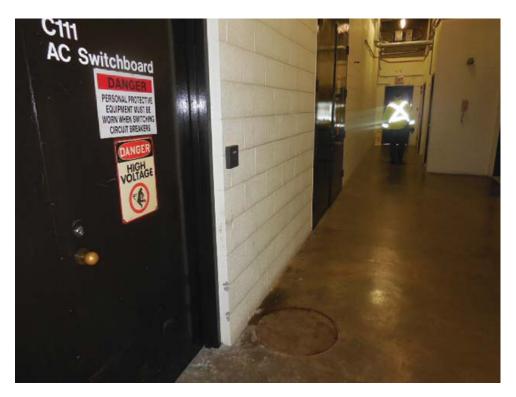


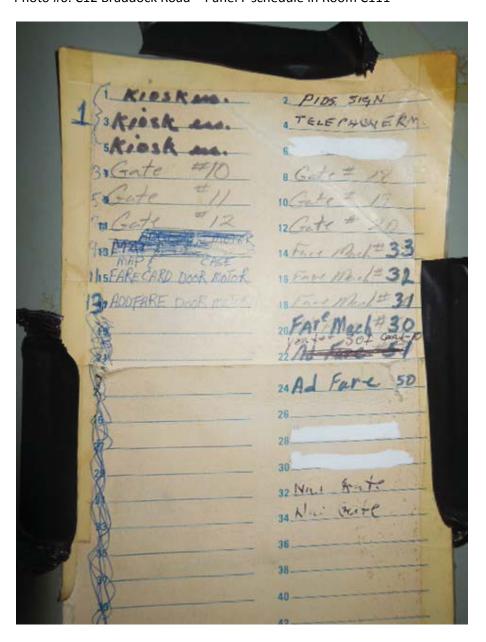
Photo #4: C12 Braddock Road – Ducts to Bottom of Panel F in Room C111

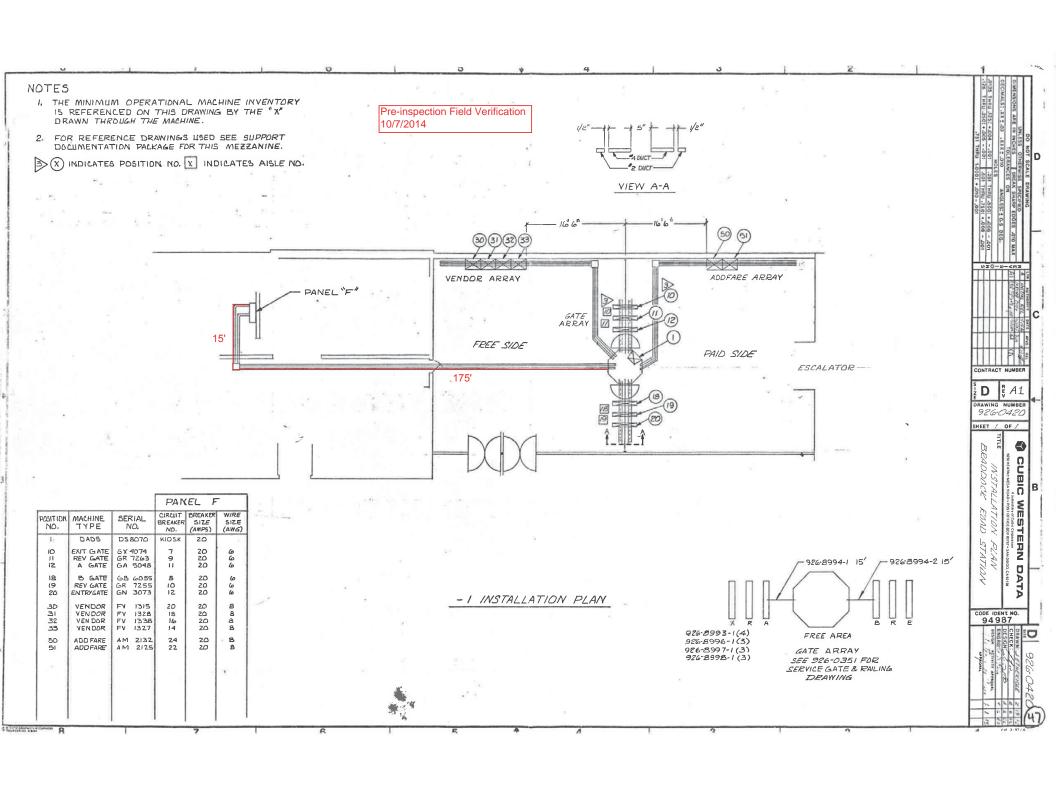


Photo #5: C12 Braddock Road – Panel F in Room C111



Photo #6: C12 Braddock Road – Panel F schedule in Room C111





Pre-inspection Field Verification 10/7/2014

Breaker "Panel F"

(Breaker #1) - 125/3P

MPERES: 225	WOLT &	120/208		MOUN	ITING:	SURF/	CE			
MANS: 225AMCB	PHASE:	3		LOCA	NON:	AC SW	BD RM.	C111 🗸	/	
RATING: 10KAIC	WIRE:	4		SECT	ON: 1	OF 1				
		CKTE	KRS	CKT.		CKT.	CICT	BKRS		
LOAD DESCRIPTION	KVA	AMP.	POLE	NO,		NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXIST LOAD CENTER KEST	2.9	20	3	1	A	2	1	20	A.O	EXISTING VENDOR
	2.5	-	-	3	- B -	4	1	20	0,6	EXISTING VENDOR
	25	-	-	5	C	8	1	30	B.G	SPARE
EXISTING VENDOR	O.B	30	1	7	A	8	1	20	8.0	EXISTING VENDOR
SPARE	0.0	20	1	8	- B -	10	1.	20	0.8	EXISTING VENDOR
EXIST ING VENDOR	8.0	20	1	11	C	12	1	20	0.8	EXISTING VENDOR
EXIST ING VENDOR	0.8	20	1	13	A	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.6	EXISTING VENDOR
EXIST ING VENDOR	0.8	20	1	17	C	18	1	20	0.8	EXISTING VENDOR
NEW KIOSK RECEPT.(IT & NEPP)	0.0	20	1	19	A	20	1	20	8.0	EXISTING VENDOR
SPARE (KIOSK)	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	23	C	24	1	20	8.0	EXISTING VENDOR
SPARE	0.0	20	1	25	A	26	1	20	8.0	EXISTING VENDOR
SPARE	0.0	20	1	27	- B -	28 30	1	20	9.9	EXISTING VENDOR SPARE
SPARE	0.0		·	31		30	1	20	0.0	
SPACE SPACE	0.0		-	31	A	34	1	20	9.8	EXISTING VENDOR
SPACE	0.0	<u> </u>	-	35	C	36		20	0.0	SPACE
SPACE.	00		-	37	A	39	-	_	0.0	SPACE
SPACE	0.0	-	-	39	- B -	40	-	-	0.0	SPACE
SPACE	0.0	-	<u> </u>	41	C	42	-		0.0	SPACE
	1. CONN	FOT HE				-		-	40	OFFICE
			LC	DAD	SUN	IMA	RY			
LIGHTS		0.0	L( x1259		SUN	MA	RY_		0.0	KVA
LIGHTS RECEPTACLES, FIRST 10 KVA				6	SUN	MA	RY			KVA KVA
	<u>-</u>	10.0	x1259	6	SUN	IMA	RY_		10.0	
RECEPT ACLES, FIRST 10 KVA	***************************************	10.0	x1259 x1009	5	SUN	IMA	RY		10.0	KVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES		10.0 8.0 0.0	x1259 x1609 x5096	6 5	SUN	IMA	RY_		10.0 4.0 0.0	KVA KVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISIC. APPLIANCES		10.0 0.0 0.0	x1259 x1009 x5096 x1009	6 5 6	SUN	MA	RY_		10.0 4.0 0.0	KA KA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISC. APPLIANCES LARGEST MOT OR		10.0 8.0 0.0 0.0	x1259 x1609 x5096 x1009 x1259	6 5 6	SUM	IMA.	RY_		10.0 4.0 0.0 0.0	KA KA KA KA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISC. APPLIANCES LARGEST MOT OR MOT ORS		10.0 8.0 0.0 0.0	x1259 x1009 x5096 x1009 x1259 x1009	6 5 6 6	SUN	IMA	RY_		10.0 4.0 0.0 0.0 0.0 3.8	KVA KVA KVA KVA KVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISIC. APPLIANCES LARGEST MOT OR MOT ORS HEAT		10.0 8.0 0.0 0.0 0.0 3.0 4.5	x1259 x1609 x5096 x1009 x1259 x1259	66	SUN	IMA.	RY_		10.0 4.0 0.0 0.0 0.0 3.8 4.5	KVA KVA KVA KVA KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC		10.0 8.0 0.0 0.0 3.0 4.5	x1259 x1609 x5096 x1009 x1259 x1009 x1269	66		IMA.		VA.	10.0 4.0 0.0 0.0 3.8 4.5	KVA KVA KVA KVA KVA KVA
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISO. APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD	A DV	10.0 8.0 0.0 0.0 3.0 4.5	x1259 x1009 x5096 x1009 x1259 x1009 x1259 x1009 x1259	66	тот		IAMO IN		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	Kia Kia Kia Kia Kia Kia Kia Kia
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISC. APPLANCES LARGEST MOT OR MOT ORS MEAT AC WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD CONNECTED LOAD PHASE SUBM.	ARY	10.0 0.0 0.0 0.0 3.0 4.5	x1259 x1009 x5096 x1009 x1259 x1009 x1259 x1009 x1259 KVA	66	тот	AL DEN	IAMO IN		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	Kiga Kiga Kiga Kiga Kiga Kiga Kiga Kiga
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES MISO. APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD	ARY	10.0 0.0 0.0 0.0 3.0 4.5 25.9	x1259 x1009 x5096 x1009 x1259 x1009 x1259 x1009 x1259	66	тот	AL DEN	IAMO IN		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	Kiga Kiga Kiga Kiga Kiga Kiga Kiga Kiga

NOTES: A EXISTING PANEL "F" IS FED FROM 277/480V, 36, 4W EXISTING SWBD. "\$2" LOCATED IN AC SWBD RN. C111,—GIRGUFT—41—126/3P- VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E25).

B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:

" 2-6 1/2"x 1 1/2" FLOOR DUCT (1-WIRING FILL >40%)(1-WIRING FILL >20%).

EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:

1-4" C. TO TRANSFORMER (WIRING FILL >40%). EXISTING WIRING FED FROM TOP OF PANEL BY:

1-#12 WIRING.

14-FQ10060-CENI-24

	_			REFERENCE DRAWINGS	l l		REVISIONS
DESIGNED	C NEE	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
		DA15				_	
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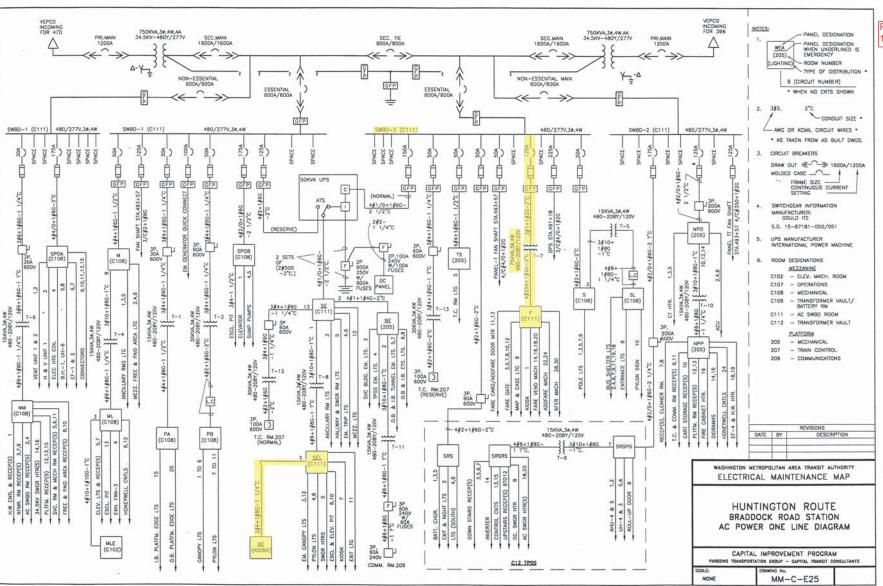
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM APPROVED -

5/F		Flaming/Parsons VENTURE
SUBMITTED	PROJECT MANAGER	

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
BRADDOCK ROAD
PANEL SCHEDULE

SCALE NOT TO SCALE DRAWING NO C12-E-102



Pre-inspection Field Verification 10/7/2014

## **Pre-Inspection Mezzanine Walkthrough Checklist** Date: 10/07/2014 Station Name: C13 King Street (South) Mezzanine # 048 Completed By: Tino Sahoo Room Check Task **Equipment Notes** ID Emergency Circuit: Source Panel EL, Circuit #1 to C103 Electrical Source Panel Name/Number: Essential Main B (AFC) EL (Kiosk Emergency) de-energize KE (Kiosk) Panel Verify electrical power design Source Breaker Name/Number: ✓ matches the field/record. Ckt. #7: "Panel F1 & C103 F2" (AFC), Ckt. #1 (KE) Identify locations of the electrical equipment. Electrical AFC Panel Name/Number: F1 and F2 / KE C103 High and Low Voltage escorts are required Is there a disconnect switch Disconnect Name/Number: N/A connected to the AFC electrical **√** power panel? Low or High voltage SMNT/POWR escorts: HIGH AND LOW VOLTAGE SMNT/POWR escorts required? Check if there is a shared Do AFC Panel loads feed into a shared raceway between AFC Panel raceway e.g. trench or trough? If Yes, **√** NO and Kiosk and identify additional specify source panels in notes. source panels to de-energize Identify the assumed pathway of the PLNT 🔽 ELES $\Pi$ COMM / IT duct, the location of the handholes. RAIL **CMNT** manholes and boxes and **√** accessibility or special escort Other Access/Support: AFC requirement? Required PLNT Support for All conduits and ducts are on one level. Over 200' run. YES (see notes) handhole/manhole access? Identify handhole or manhole access ✓ requirement. Identified Conduit/Duct YES Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC $\checkmark$ **√** electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP** Representative **WMATA PRGM** Tino Sahoo Name: Signature: 10/7/14 Date:

Photo #1: C13 King Street (South) – Kiosk at mezzanine level



Photo #2: C13 King Street (South) – Free Side of Mezzanine level, presumed path of power duct

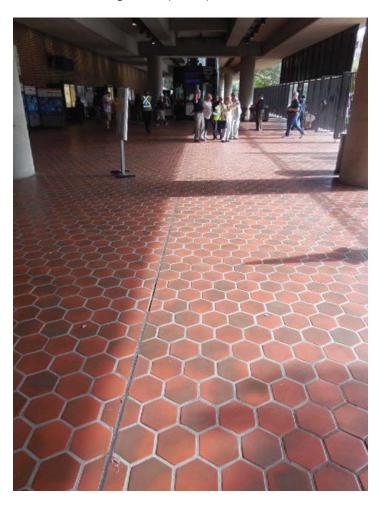


Photo #3: C13 King Street (South) – Handholes in mezzanine floor



Photo #4: C13 King Street (South) – Handholes in mezzanine floor



Photo #5: C13 King Street (South) – Mini-mezzanine mezzanine area



Photo #6: C13 King Street (South) – Mini-mezzanine mezzanine faregate array and floor handhole



Photo #7: C13 King Street (South) – Handhole in mezzanine floor



Photo #8: C13 King Street (South) – Switchboard circuit label for Panels F1 and F2



Photo #9: C13 King Street (South) – Ducts and conduits into panels F1 and F2 in Room C103



Photo #10: C13 King Street (South) – Panel F1 in Room C103



Photo #11: C13 King Street (South) – Schedule of Panel F1 in Room C103

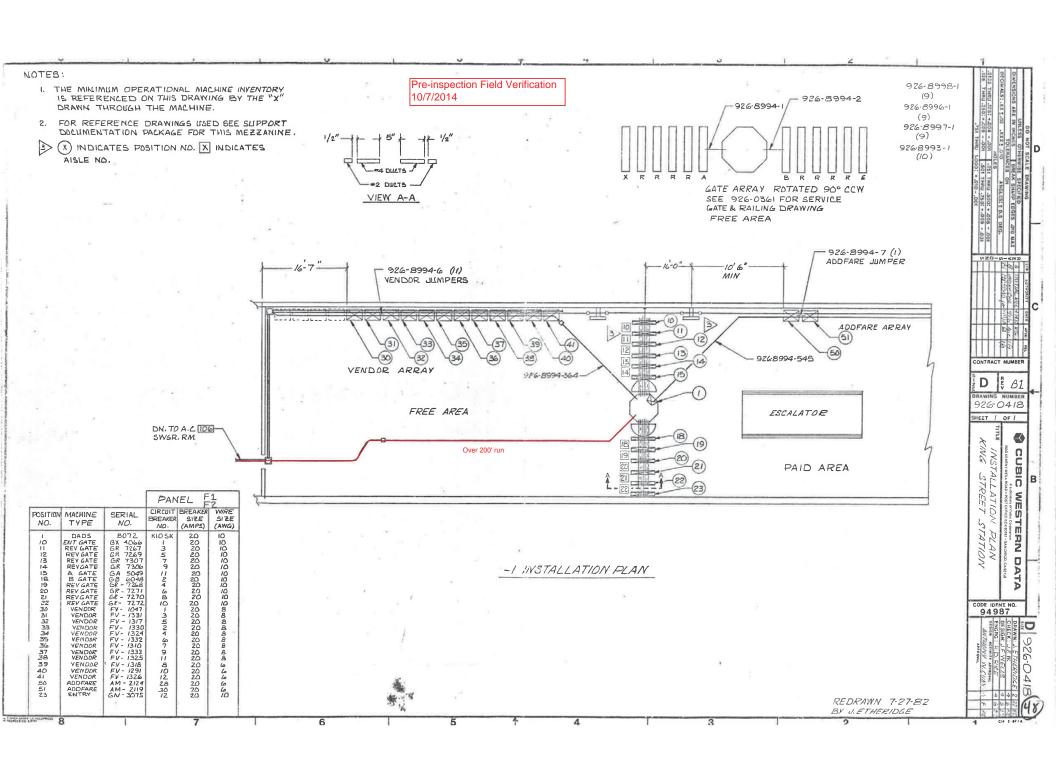
FARE VEND MACH	23 KIC 24 HE2 25 KIC 26 SP2 27 SP2 28 SP2 28 SP2 30 SP2 31 SP2 32 SP2 32 SP2	ARE
FARE VEND MACH	25 KIC 26 SP/ 27 SP/ 28 SP/ 28 SP/ 30 SP/ 31 SP/ 32 SP/	OSK RECEPT ARE ARE ARE ARE ARE ARE
FARE VEND MACH	26 SP/ 27 SP/ 28 SP/ 29 SP/ 30 SP/ 31 SP/ 32 SP/	ARE ARE ARE ARE ARE ARE
FARE VEND MACH	27 SPA 28 SPA 29 SPA 30 SPA 31 SPA 32 SPA	ARE ARE ARE ARE
FARE VEND MACH SALE FARE FARE FARE FARE FARE FARE FARE FAR	28 SPA 29 SPA 30 SPA 31 SPA 32 SPA	ARE ARE ARE
FARE VEND MACH SALE FARE FARE FARE FARE FARE FARE FARE FAR	29 SP/ 30 SP/ 31 SP/ 32 SP/	ARE ARE ACE
FARE VEND MACH	30 SP/ 31 SP/ 32 SP/	ARE
FARE VEND MACH	SPI SPI SPI	ACE
11 FARE VEND MACH	SP S	ACE
TAKE VEND MACH	DIF	
12 FADE VEND MACH		CE
THE ATMO DESCRIPTION		
13 FARE VEND MACH	@ 26-)	Smalet Frip Venelyy
14 FARE VEND MACH	\$28)	Smust terp Miche
15 FARE VEND MACH	6	
16 FARE VEND MACH	37	
FUT FARE VEND MACH		
18 FUT FARE VEND MACH	9	
10 FUT FARE VEND MACH	0	CONTRACTOR OF THE PARTY OF THE
FUT FARE VEND MACH	1	
FUT FARE VEND MACH	2	
LO INC. PC. NO. 12-111	-01	30 CRKT ON BAC

Photo #12: C13 King Street (South) – Panel F2 in Room C103



Photo #13: C13 King Street (South) – Schedule of Panel F2 in Room C103

	FED FE	
V	PARE VEND MACH 250	
	FARE VEND MACH 18	23 FUT FARE VEND MACE
3	FARE VEND MACH //	1 24 KIOSK HAC POMEL
4	FARE VEND MACH	25 SPARE
	FARE VEND MACHGE	
	FARE VEND MACHGRE	D 27 SPARE
	FARE COLL MACH	28 SPARE 1 7 7 7
	FARE VEND MACHGRA	
	FARE COLL MACH	30 SPARE AM 507
18	FARE VEND MACH	31 SPACE
	FARE COLL MACH	5 32 SPACE
10	FARE VEND MACHON	33 SPACE
	FADE COLLECT FA	N The second sec
	TRANSFER MEL-	35 SPACE
	OUTLY	The state of the s
	PARE COLL MACH	, 37
	FUT FARE VEND MAC	ти 38
		20
	FUT FARE VEND MAC	.0
	FUT FARE VEND MAC	TH
	KIOSK HAC Panel	142
	FUT FARE VEND MAC	H
	Divide Control to	



	VOLTS:	120/208		MOU	VTING:	SURF	ACE.			
WANS. 150A MCB	PHASE	3		LOCA	TION:	AC SW	SO RM.	C103	/	
RATING: 10K AIC	WIRE:	4		SECT	ION: 1	OF 1				
		CKT	BKRS	CKT		CKT.	CXT	EKRS	Г	
LOAD DESCRIPTION	AVA	AMP	POLE	NO.		NO.	POLE	AMP	KWA	LOAD DESCRIPTION
EXISTING VENDOR	6.9	20	1	1	A	2	1.	20	0.0	SPARE
EXISTING VENDOR	C,8	26	1	3	- B -	4	1	20	0,0	SPARE
EXISTINGVENDOR	- ê.S	20	1	5	C	6	1	20	0.0	SPARE
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	7	A	8	1	20	0.8	EXISTING VENDOR
SPARE (KIOSK)	0.0	20	1	9	- 8 -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	31	C	12	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	13	A	14	1	20	0.0	SPARE
SPARE	0,0	20	1	15	- 9 -	16		20	0.0	SPICE
EXISTINGVENDOR	0.8	20	1	17	C	18	1	20	0.8	EXISTING VENCOR
EXISTING VENDOR	0.8	20	1	18	A	20	(1)	20	0.9	EXISTING VENCOR
EVSTINGVENDOR	0,9	20	1	21	- B -	22	1.1	20	0.8	EXISTING VENDOR
EVETING VENDOR	0.0	20	1	22	C	24	10	20	0.8	EXISTING VENDOR
EUSTINGVENDOR	0.8	20	1	25	A	28	4	20	0.8	EXISTING VENDOR
SPARE	0.0	29	1	27	- B -	29	1	20	9,8	EXISTING VENDOR
SFARE	0.0	20	1	29	C	30	1	20	0.0	SFARE
SFACE	0.0	<u> </u>	<u>  -</u>	31	A	32	Ŀ	-	0.0	SPACE
SPACE	6.6	-		33	- B -	34		-	0,0	SPACE
SPACE	0.0	-	-	35	C	38	] - ]		0.0	SFACE
						VFC				
LIGHTS RECEPTACLES, FIRST 10 KVA REGEPTACLES MISC APPLIANCES LARGEST MOTOR		18.0 5.1	LC x 1255 x 1005 2 x 50% x 1005	N.	SUM		RY		10.0 2.0 0.0	O KYA KYA KYA BYA KYA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES LARGEST MOTOR		5.0 5.0 0.0	x 1255 x 1001 x 50% x 1001	K.	SUM		RY		10.0 2.0 0.0	D KVA B KVA D KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS		5.1 6.0 6.0	x 1255 x 1005 x 50% x 1005 x 1255	K K	SUM		RY		10.0 2.1 0.1 0.1	D KVA B KVA D KVA D KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MASC APPLIANCES LACEST MOTOR MACTORS HEAT		5.1 0.0 0.1 0.1	x 1255 x 1001 x 50% x 1001 x 1251 x 1001	X	SUM		RY		10.0 2.0 0.0 0.0 0.0	O KVA B KVA O KVA O KVA O KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLUNCES LARGEST MOTOR MOTORS 4EAT AC		0.0 0.0 0.1 0.1 0.1	x 1251 x 1001 x 50% x 1001 x 1251 x 1251 x 1251	% % % %	SUM		RY		10.0 0.0 0.0 0.0 0.0	) KVA 5 KVA 0 KVA 0 KVA 0 KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT 4C WATER HEATING		0.0 0.0 0.0 0.0 0.0 0.0	0 x 1255 0 x 1001 0 x 50% 0 x 1005 1 x 1255 0 x 1005 0 x 1005	% % % %		IMA	RY	VA.	10.0 0.0 0.0 0.0 0.0 0.0	D KVA B KVA KVA D KVA D KVA D KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT 4C WATER HEATING		0.0 0.0 0.0 0.0 0.0 0.0	x 1255 x 1001 x 50% x 1001 x 1251 x 1251 x 1251 x 1251 x 1251	% % % %	TOT	IMA			10.0 2.0 0.0 0.0 0.0 0.0 0.0 12.0	O KVA  KVA  KVA  KVA  KVA  KVA  KVA  KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MASC APPLANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD	ARY	0.0 0.0 0.0 0.0 0.0 0.0	x 1255 x 1001 x 50% x 1001 x 1251 x 1251 x 1251 x 1251 x 1251	% % % %	TOT	IMA	IAND K		10.0 2.0 0.0 0.0 0.0 0.0 0.0 12.0	O KVA KVA O KVA O KVA O KVA O KVA O KVA O KVA O KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASE SUMM.	ARY	18.0 5.1 5.0 0.0 0.0 0.0 0.0 16.1	x 1255 x 1001 x 50% x 1001 x 1251 x 1251 x 1251 x 1251 x 1251	% % % %	TOT	IMA	IAND K		10.0 2.0 0.0 0.0 0.0 0.0 0.0 12.0	O KVA KVA O KVA O KVA O KVA O KVA O KVA O KVA O KVA
RECEPTACLES, FIRST 10 KVA RECEPTACLES MISC APPLIANCES	ARY	18.0 5.2 6.0 0.0 0.0 0.0 0.0 18.2	0 x 1259 0 x 1003 2 x 50% 0 x 1003 0 x 1259 0 x 1003 1 x 1253 0 x 1003 0 x 1253 2 x 1003 1 x 1253 2 x 1003	% % % %	TOT	IMA	IAND K		10.0 2.0 0.0 0.0 0.0 0.0 0.0 12.0	O KVA KVA O KVA O KVA O KVA O KVA O KVA O KVA O KVA

NOTES: A. EXISTING PANEL "F1" IS FED FROM 277/480V, 34, 4W EXISTING SWBD. "ENSSENTIAL MAIN 8" LOCATED IN AC SWBD C103, CIRCUIT \$7-175/3P VIA 112KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E26).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:

\* 1-6 1/2"x 1 1/2" BUS DUCT (WIRING FILL >40%). \* 2-3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM BOTTOM OF PANEL BY:

\* 1-C" C. TO WIRE TROUGH (WIRING FILL, >40%).

Pre-inspection Field Verification 10/7/2014

AMPERES: 150	VOLTS:	120/208		AACI D	ITING:	9 IDEA	YF.			
MAINS: 150AMCB	PHASE			LOCA				TERYRIV	IC103	/
RATING: 10K AC	WRF	4		-	ON: 1				.0100	/
1411100 141110	1	CKTE	KRS	CICT.		акт.	С	BKRS		
LOAD DESCRIPTION	KVA	AMP	POLE			NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	08	20	1		A	2	1	20	28	EXISTINGVENDOR
EXIST ING VENDOR	0.8	20	1	3	- 8 -	4	1	20	0.8	EXIST ING VENDOR
EXISTING VENDOR	0.8	20	Ħ	5	C	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A	8		20	0.8	EXSTINGVENCER
EXISTING VENDOR	08	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	08	20	1	13	A	14	1	20	0.0	SPARE
EXITING VENDOR	08	20	1	15	- В -	16	1	20	0.8	EXISTING VENDOR
NEW KOOSK RECEPT. (IT & NEPP)	0.0	20	1	17	C	18	1	20	0.8	EXISTING VENDOR
SPARE (KIOSK)	0.0	20	1	19	A	20	1	20	29	EXIST. LOAD CENTER KEST
SPARE	00	20	1	21	- B -	22	1	20	2.5	
SPARE	0.0	20	1	23	C	24	1	20	25	
SPARE	0.0	20	1	25	A ~ .	28	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	Ť	27	- B -	28	4	20	0.8	EXISTING VENDOR
SP/ARE	0.0	20	1	29	C	30	1	20	0.0	SPARE
SPACE	0.0	-	-	31	A	32	-	-	0.0	SPACE
SPACE	0.0	_	-	33	- B -	34	-	-	0.0	SPACE
SPACE	0.0	-	-	35	C	38	-	_	0.0	SPACE
		BERIZE								_
			LC	DAC	SUN	IMA	RY			
LIGHTS		0.0	x 125	6					0.0	RVA
RECEPTACLES, FIRST 10 KVA		10,0	x 1001	6					10.0	KVA
									28	B KVA
RECEPTACLES		5.6	x50%							
RECEPTACLES MSC. APPLIANCES			х50% х 1009						0.0	) KVA
		0.0		<b>K</b> a						) KVA
MISC. APPLIANCES		0.0	π1009	% %					0.0	
MISC. APPLIANCES LARGEST MOTOR MOTORS		0.0	х 100° х 125°	% %					0.0	) KVA
MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT		0.0 0.0 0.0 3.0	ж 100° х 125° х 100°	% % %					0.0 3.1	D KVA D KVA B KVA
MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC		0.0 0.0 0.0 3.0 4.5	x 125° x 125° x 100° x 125°	% % % %					0.0 3.1 4.5	KVA D KVA
MSC. APPLANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING		0.0 0.0 0.0 3.0 4.5	x 1005 x 1255 x 1005 x 1255 x 1005 x 1255	% % % %	TOTA	AL DEW	IAND K	va.	0.0 3.1 4.1	) KVA ) KVA ) KVA ; KVA ) KVA
MISC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC		0.0 0.0 0.0 3.0 4.5	x 1005 x 1255 x 1005 x 1255 x 1005	% % % %			IAND K		0.0 3.0 4.5 0.0 21.1	) KVA O KVA O KVA O KVA O KVA
MSC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD	ARY	0.0 0.0 0.0 3.0 4.5	x 1005 x 1255 x 1005 x 1255 x 1005 x 1255	% % % %			IAND K		0.0 3.0 4.5 0.0 21.1	) KVA ) KVA ) KVA ; KVA ) KVA
MSC. APPLANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING	ARY	00 00 00 3.0 4.5 0.0 23.1	x 1005 x 1255 x 1005 x 1255 x 1005 x 1255	% % % %					0.0 3.0 4.5 0.0 21.1	) KVA O KVA O KVA O KVA O KVA
MSC. APPLIANCES LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASE SUMM	ARY	00 0.0 0.0 3.0 4.5 0.0 23.1	x 1005 x 1255 x 1005 x 1005 x 1005 x 1255 KVA	% % % %					0.0 3.0 4.5 0.0 21.1	) KVA O KVA O KVA O KVA O KVA

NOTES: A EXISTING PANEL F2" IS FED FROM 277/480V, 34, 4W EXISTING SWBD. "ENSSENTIAL MAIN B" LOCATED IN AC SWBD C103, CIRCUIT \$7-175/3P VIA 112KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E26).

- B. EXISTING WIRING FED FROM TOP OF PANEL BY:
  - \* 1-6 1/2"x 1 1/2" BUS DUCT (WIRING FILL >40%). \* 1-3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM BOTTOM OF PANEL BY: \* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

14-FQ10060-CENI-24

			REFERENCE DRAWINGS			REVISIONS
DESIGNED C. MOD	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN C. NRO	D9-14	<b>-</b>		<del></del>		
h mm	DATE					
CHECKED B. OLB	DATE	-				
APPROVED N/A	DATE			_		
	DATE					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

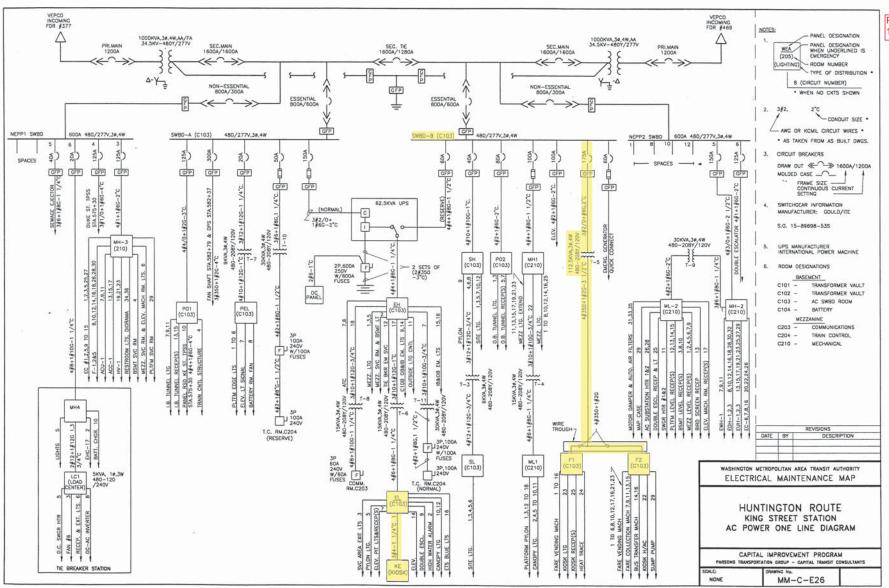
APPROVED -

A Gennell Fleming/Parsons JOINT VENTURE SUBMITTED PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS KING STREET - NORTH & SOUTH

PANEL SCHEDULES NOT TO SCALE C13-E-102

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Pre-inspection Field Verification 10/7/2014

			Pre	-Inspection Mezz	anine Wa	kthrough	Check	dist
Date:	01/15/2015	5	Station Name: King	Street North - C13	Mezzanine #: N	/IZ112	Complete	ed By: Tino Sahoo
Check		Та	sk	Equ	ipment		Room ID	Notes
<b>✓</b>	the field/re		power design matches y locations of the	Electrical Source Panel Name/Number: Source Breaker Name/Number Electrical AFC Panel Name/Number:	NESS : "Panel NF" NF		N201 N201 N201	S.O. Request: Source Panel - Panel NES Breaker: Breaker "Trans T-7" Panels Affected: Panel NF, Panel NES, Panel NESS
<b>✓</b>	AFC elect	trical power p	itch is connected to the canel. Low or High escorts requirements?	Disconnect Name/Number:  SMNT/POWR escorts: HIG	SH Voltage			
<b>✓</b>	AFC Pane		red raceway between and identify additional e-energized.	Do AFC Panel loads feed into a raceway e.g. trench or trough? specify source panels in notes.		see notes)		AFC Panel NF shares a trough with Panels NES and NESS.
<b>V</b>	conduit, the manholes	he location of	athway of duct / the handholes, and accessibility or nent?	PLNT  COMM / IT  RAIL  CMNT  Other Access/Support:	☐ ELES	<b>V</b>		
<b>✓</b>	Identify ha		anhole access	Required PLNT Mason for handhole/manhole access? Identified Conduit/Duct Transition to mezzanine level?	YES (see note	s)		Conduit/ducts on multiple levels. AFC Panel Room N201 is two floors above Mezzanine.
Emerg	ency Pow	er Verification	on				•	
Check		Та	sk	Equ	uipment		Room ID	Notes
<b>V</b>			I panel is connected fer Switch (ATS).	ATS Name/Number:				
				Source Panel Name/Number:				
<b>V</b>		on of Kiosk Er 5, KESS, etc)	mergency Panel(s)	Source Breaker Name/Number	r:			
				Panel Name/Number:				
Notes	and Discr	repancies:						
Sign C	Off		GFP Represe	entative			WM	ATA PRGM
Name:	:	Tino Sahoo						
Signat	ture:	Tarmena	Dahreo					
Date:		01/15/2015						

King Street North Photo #1 – AFC Panel NF located in Electrical Room #N201





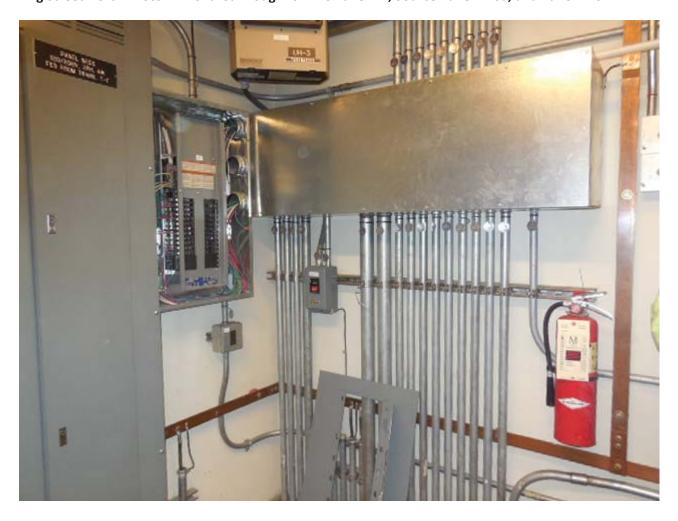
King Street North Photo #2 – "Panel NF" Panel Schedule - Electrical Room #N201

	CIRCUIT I	DIRE	ECTORY
	PANEL NF - 208/120V -		
1	Fare Vending 3 /	2	Kiosh Panel NKE
3	Fare Vending 30	4	Kiosh Panel NKE,
5	Fare Vending 50	6	Kiosh Panel NKE
7	Fare Vending 5 /	8	Fare Vending
9	BUX THOSEY MANNEWS	10	
.11	BIGGORANTAN MANN PROPERTY	12	0
13	Map & Tele. Case	_	Fare Vending /2
15	F CHSC	16	Fare Vending / 3
17		18	SMARTTRIP NEW
19		20	THE TREE NEW
21	Electric Rm. Recepacle	22	
23		24	
27		26	
29		28	
31		30	
33		32	
35		34	
37	1		

King Street North Photo #3 – "Panel NF" Side Feed Conduits into Shared Trough - Electrical Room #N201



King Street North Photo #4 – Shared Trough for AFC Panel NF, Source Panel NESS, and Panel NES

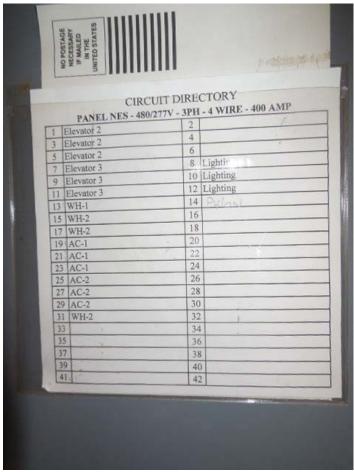


King Street North Photo #5 – Source Panel NESS Panel Schedule - Electrical Room #N201

	PANEL NESS - 208/1	2	Lighting	
L	ighting		Lighting	
3 I	ighting		Secretary Commence of the Comm	
5 I	ighting		Lighting	
7 1	ighting	-	Lighting	
9 1	Lighting	10	i ting	
11	Lighting	_	Lighting	
13	Receptacle	-	Lighting	
15	EF-1, 2 & 4	_	UH-1	
17	HTR-1		UH-1	
19	HTR - 2	_	UH-2	
21	HTR-3		UH-2	
	EWC - 1	-	UH-3	
	EF -3		UH-3	
	Heat Trace	-	Spare	
	Heat Trace		Spare	
	Heat Trace		Spare	
	Heat Trace		Panel EL1	
	HTR - 4		Panel EL1	
	7 Contactor Control	-	Panel EL1	
13	9	40		

King Street North Photo #6 – Panel NES which feeds Panel NESS Panel Schedule- Electrical Room #N201





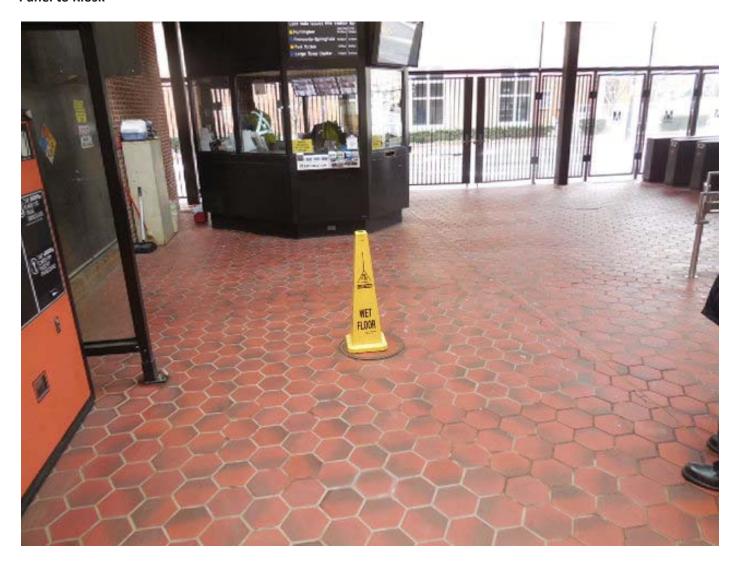
King Street North Photo #7 – Panel NES Main Breaker (Service Disconnect) used to de-energize Panel NES, Panel NESS and AFC Panel NF as all three panels share trough.

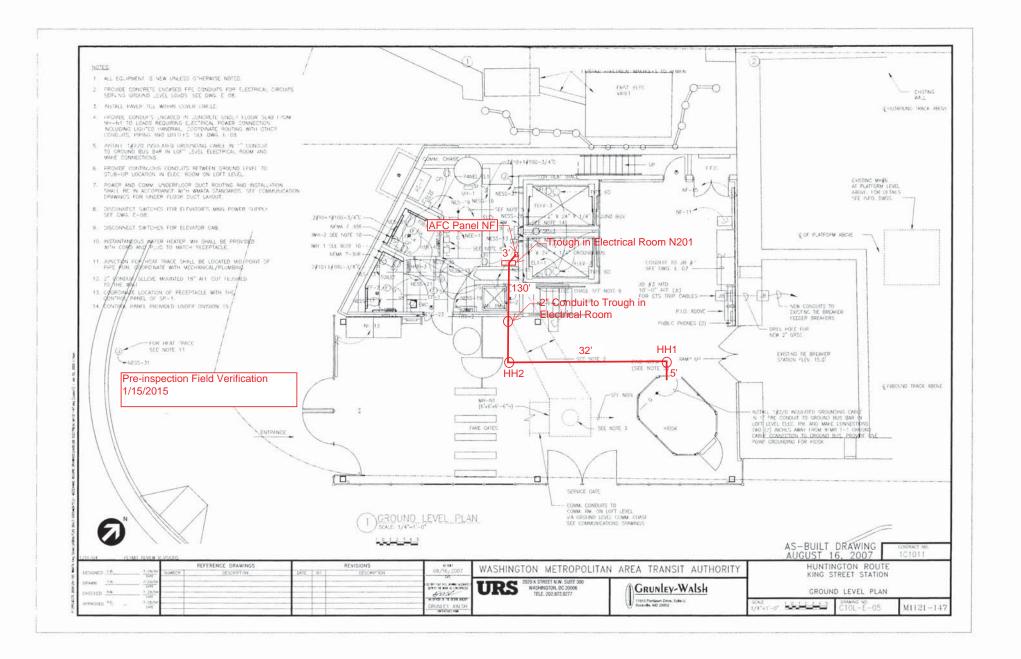


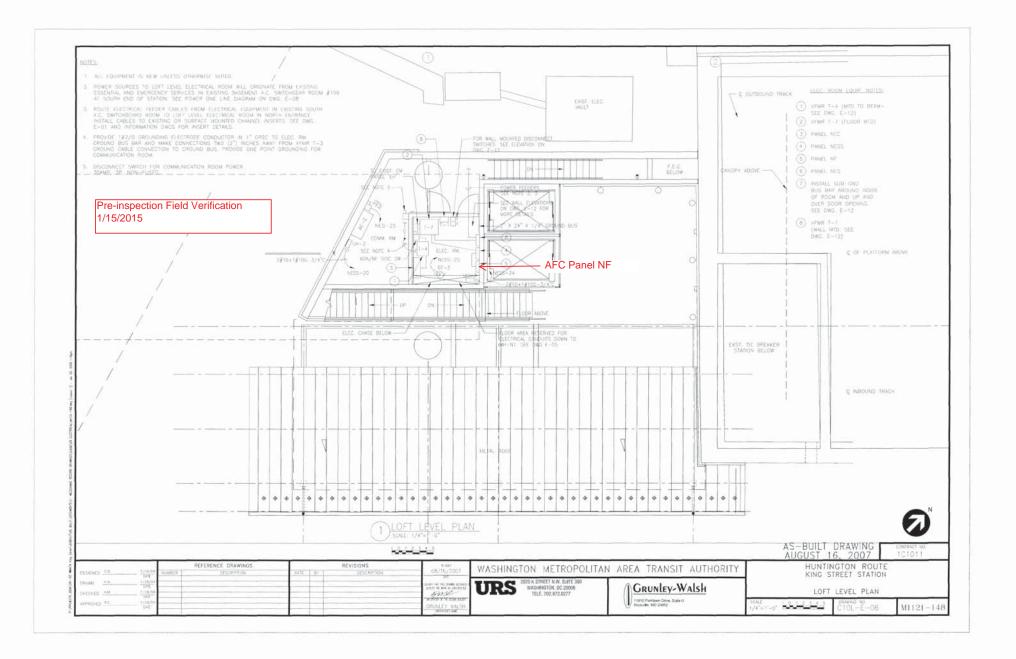
King Street North Photo #8 – Manholes in Mezzanine Area used for Routing of Power Conductor from Electrical Room two Floors Up to Mezzanine

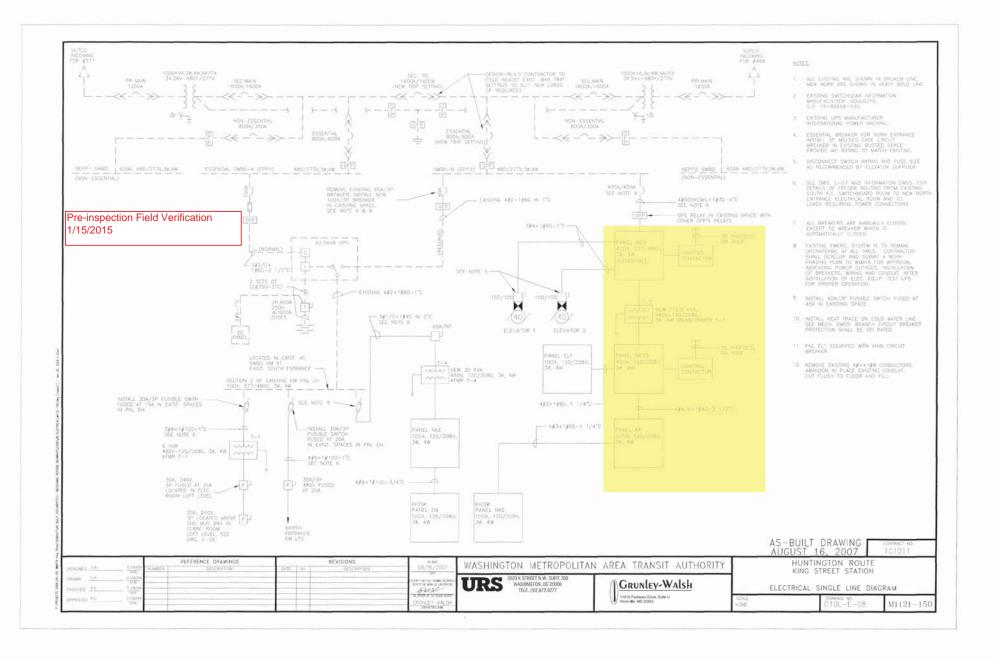


King Street North #9 – Handhole in Mezzanine Area used for Routing of Power Conductors from AFC Panel to Kiosk









			Pre	e-Inspection Mezza	anine Walkthrough	Check	list REVISION 1
Date:	10/07/2014	ļ	Station Name: C15 H	Huntington North	Mezzanine #: 050	Complete	ed By: Tino Sahoo
Check		Та	ısk	Equ	ipment	Room ID	Notes
N	the field/re		power design matches by locations of the	Electrical Source Panel Name/Number: Source Breaker Name/Number: Electrical AFC Panel	NPOE : Breaker #6  NF	129 129 129	Rm 129 is located on platform level
<b>V</b>	AFC electi	rical power p	itch is connected to the panel. Low or High escorts requirements?	Name/Number:  Disconnect Name/Number: N/A  SMNT/POWR escorts: HIG		129	
<b>√</b>	AFC Pane		red raceway between and identify additional e-energized.	Do AFC Panel loads feed into a raceway e.g. trench or trough? specify source panels in notes.		C106	
\ \	conduit, the manholes	e location of	eathway of duct / f the handholes, and accessibility or nent?	PLNT  COMM / IT  RAIL  CMNT  Other Access/Support:	ELES		
<b>\</b>	Identify ha requireme		anhole access	Required PLNT Mason for handhole/manhole access?  Identified Conduit/Duct Transition to mezzanine level?	YES (see notes) YES		Conduit/duct run from platform level to mezzanine level.
Emerg	ency Powe	er Verification	on				
Check		Та	isk	Equ	ipment	Room ID	Notes
<b>7</b>			I panel is connected fer Switch (ATS).	ATS Name/Number:			
<b>V</b>		n of Kiosk Er KESS, etc)	mergency Panel(s)	Source Panel Name/Number: Source Breaker Name/Number Panel Name/Number:	NEE  : Breaker #13  Kiosk Emergency Panel	129 129 Kiosk	Breaker #38 of AFC Panel (NF) feeds emergency circuits to Kiosk Panels also.
Notes	and Discre	epancies: F	Panel KE (Breaker #3,5	5) de-energizes emergency pov	ver to faregates.		
Sign O	ff		GFP Represe	entative		WM	ATA PRGM
Name:		Tino Sahoo	)				
Signat	ure:	Tarmen	a Daheo				
Date:		10/07/14					

Photo #1: C15 Huntington North – Handholes at Mezzanine



Photo #2: C15 Huntington North – Handholes at Mezzanine



Photo #3: C15 Huntington North – Handholes at Mezzanine

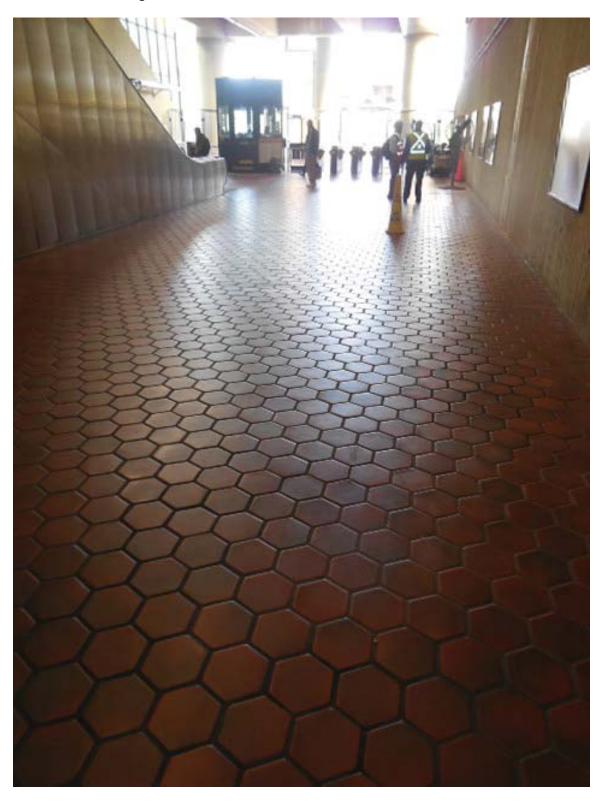


Photo #4 & 5: C15 Huntington North – Panel NPOE in Room 129





Photo #6: C15 Huntington North – Panel NPOE – Panel Schedule

1	SPECIAL SERVICES I	DIVISI	
	LITRULA	STEA	524-4900
Panel	TOTAL ELECTRICAL SY		
IR.	SERVING	-0	SERVING
IR. (O.		2	Panel NM
7	Panel NS	4	Flydraulic elevator
3	Traction Power substation	6	Transfer T2 A
	75 AT	8	
9		10	
11	Atroomp for sprinkler	12	
13		14	
-			
-		-	
-			
-			
-		1	
-			

Photo #7: C15 Huntington North – Panel NPOE – Circuit #6 to de-energize AFC Panel NF



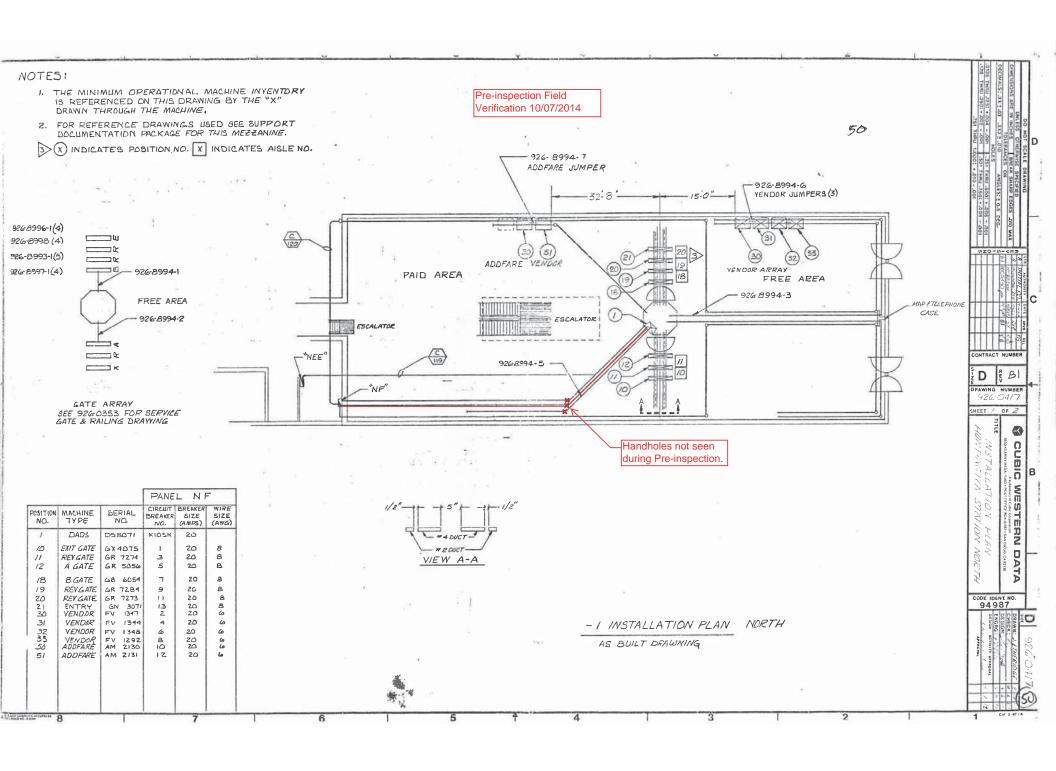
Photo #8: C15 Huntington North – AFC Panel NF – Ducts below Panel



Photo #9 & 10: C15 Huntington North – AFC Panel NF – Bottom of Panel







			XIS				_	$\sim$				
MPERES: 225		120/208			IOUNTING: SURFACE OCATION: ELEC. EQUIPMENT BATTERY 129. /							
AAINS: 200AMCB	PHASE:						EQUIPIN	CENT BAI	TERY 12	9		
RATING: 10KAIC	WIRE:	4		_	ON: 1							
	,	CKTE		CICT.		CKT.		BKRS				
LOAD DESCRIPTION	KVA	AMP	POLE	NO.			POLE	AMP	KVA	LOAD DESCRIPTION		
EXISTING VENDOR	0.8	20	1	1	A	2	1	20	8.0	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	8.0	EXISTING VENDOR		
EXISTING VENDOR	0.0	20	1	5	C	6	1	20	0,8	EXISTING VENDOR		
XISTING VENDOR	0.8	20	1	7	A	8	1	20	0,0	SPARE EXISTING VENDOR		
EXISTING VENDOR	0,8	20	1	9	- B -	10	1	20	0,8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	11	C	12	1					
EXISTING VENDOR	0,8	20	1	13	A	14	1	20	0.8	EXISTING VENDOR  EXISTING VENDOR		
EXISTING VENDOR	8,0	20	1		- B -	16		20	0.0	SPARE		
EXISTING VENDOR EXISTING VENDOR	0.0	20	1	17 19	C	18	1	20	0.0	SPARE		
	0,8				A		1			EXISTING VENDOR		
EXISTING VENDOR	0,8	20	1	21	- B -	22	1	20	0.0	EXISTING VENDOR		
NEW KIOSK RECEPT. (IT & NEPP)	0.0	20	1	23	_	26	1	20	O.B	EXISTING VENDOR		
SPARE (KIOSK)	0.0	20	1	25	A	26	+	20	0.0	SPARE		
SPARE	0.0	20	1	29	C	30	1	20	0.0	SPARE		
SPARE	0.0	20	1	31	A	32	H	- 20	0.0	SPACE		
SPARE	0.0	20	+	33	A	34	$\vdash$		0.0	SPACE		
SPARE	0.0	20	1	35	C	36	3	40	2.9	EXIST. LOAD CENTER KES		
PACE	0.0	20	-	37	A	38	-	40	2.5	CAST, LOND CONTEN NES		
PACE	0.0	-	-	39	- B -	40	-		2.5			
SPACE	0.0	<u> </u>	$\vdash$	41	C	42	-		0.0	SPACE		
	: 1. CONN	POT NEW	· ·				E 20 A	(D CO	0.0	Urnor.		
	2. CB TO	BE RESE	ERVED I	FORF	JTURE A	FC						
			LC	AD	SUM	MA	RY					
IGHTS		0.0	LC x 125%		SUM	IMAI	RY		0,0	ICVA		
			_		SUM	IMA	RY		0.0	*****		
GHTS RECEPTACLES, FIRST 10 KVA		10.0	x 125%		SUM	IMAI	RY		10.0	*****		
RECEPT ACLES, FIRST 10 KVA		10.0	x 125% x 100%		SUM	IMA	RY		10.0	KVA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES		10.0 8.0 0.0	x 125% x 100% x 50%		SUM	IMAI	RY		10.0 4.0 0.0	KYA KYA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES AISC APPLIANCES		10.0 8.0 0.0	x 125% x 100% x 50% x 100%		SUM	IMA	RY		10.0 4.0 0.0 0.0	KVA KVA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES AISC APPLIANCES ARGEST MOTOR AOTORS		10.0 8.0 0.0 0.0	x 125% x 100% x 50% x 100% x 125%		SUM	<u>IMA</u> I	RY		10.0 4.0 0.0 0.0	KYA KYA KYA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES AISC APPLIANCES ARGEST MOTOR AOTORS		10.0 8.0 0.0 0.0 0.0 3.0	x 125% x 100% x 50% x 100% x 125% x 100%		SUM	IMAI	RY		10.0 4.0 0.0 0.0 0.0 3.8	KYA KYA KYA KYA KYA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES HISC APPLANCES ARGEST MOTOR HOTORS EAT		10.0 8.0 0.0 0.0 0.0 3.0 4.5	x 125% x 100% x 50% x 100% x 125% x 100% x 125%		SUM	IMAI	RY		10.0 4.0 0.0 0.0 0.0 3.8 4.5	KYA KYA KYA KYA KYA		
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES AISC APPLIANCES ARGEST MOTOR MOTORS REAT C WATER HEATING		10.0 8.0 0.0 0.0 0.0 3.0 4.5	x 125% x 100% x 50% x 100% x 125% x 100% x 125% x 100%			IMAI		/A	10.0 4.0 0.0 0.0 0.0 3.8 4.5	KVA KVA KVA KVA KVA KVA KVA		
RECEPT ACLES, FIRST 10 KVA RECEPT ACLES RISC APPLANCES ARGEST MOTOR ROTORS REAT C WATER HEATING		10.0 8.0 0.0 0.0 3.0 4.5	x 125% x 100% x 50% x 100% x 125% x 100% x 125% x 100%		TOTA		AND K		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	KVA KVA KVA KVA KVA KVA KVA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES AISC APPLIANCES ARGEST MOTOR	ARTY	10.0 8.0 0.0 0.0 3.0 4.5	x 125% x 100% x 50% x 100% x 125% x 100% x 125% x 100%		TOTA	IL DEM	AND K		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	ICVA ICVA ICVA ICVA ICVA ICVA ICVA ICVA		
RECEPTACLES, FIRST 10 KVA RECEPTACLES ANSE APPLIANCES ARGEST MOTOR ROTORS LEAT C VATER HEATING OTAL CONNECTED LOAD	ARY	10.0 0.0 0.0 0.0 0.0 3.0 4.5 0.0 25.5	x 125% x 100% x 50% x 100% x 125% x 100% x 125% x 100%		TOTA	IL DEM	AND K		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	ICVA ICVA ICVA ICVA ICVA ICVA ICVA ICVA		
RECEPTACLES, FIRST 10 KWA RECEPTACLES ARGEST MOTOR AOTORS REAT BEAT C WATER HEATING OTAL CONNECTED LOAD CONNECTED LOAD PHASE SUMM.	ARY	10.0 8.0 0.0 0.0 0.0 3.0 4.5 0.0 25.5	x 125% x 100% x 50% x 100% x 125% x 100% x 125% x 100% x 125%		TOTA	IL DEM	AND K		10.0 4.0 0.0 0.0 0.0 3.8 4.5 0.0	ICVA ICVA ICVA ICVA ICVA ICVA ICVA ICVA		

NOTES: A. EXISTING PANEL "NE" IS FED FROM 277/480V, 34, 4W EXISTING PANEL "NPOE" LOCATED IN AC SWBD BATTERY RM 2+6, 129 CIRCUIT #6-125/3P VA 75 KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E37).

EXISTING WIRING FED FROM TOP PANEL BY:
- 1-1/2" C. (WIRING FILL >40%).

B. EXISTING WIRKOR FED FROM BOTTOM PARKE, BY:

- 1-8"x 6" WIRE TROUGH THRU 3-2" C. (WIRING FILL >40%).

Pre-inspection Field Verification 10/07/2014

AMPERES: 225	VOLTS:	120/208		MOUN	ITING:	SURFA	CE			
MAINS; 225AMLO	PHASE:			LOCA	TION:	ELEC.	QUIPN	<b>IENT 416</b>		
RATING: 10KAC	WIRE:	4		SECT	ON: 1	OF 1				
		CKTE	KRS	CIKT.		CKT.	CKT	BICRS		
LOAD DESCRIPTION	KVA	AMP	POLE	NO.		NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0,8	20	1	1	A	2	1	20	8.0	EXISTING VENDOR
EXISTING VENDOR	8.0	20	1	3	- B -	4	1	20	8,0	EXISTING VENDOR
EXISTING VENDOR	0,8	20	1	5	C	6	1	20	8,0	EXISTING VENDOR
EXISTING VENDOR	8,0	20	1	7	A	В	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	8,0	EXISTING VENDOR
SPARE	0.0	20	1	13	A	14	1	20	0,8	EXISTING VENDOR
EXISTING VENDOR	0,8	20	1	15	- B -	16	1	20	0.0	SPARE
EXISTING VENDOR	0,8	20	1	17	C	18	1	20	0,0	SPARE
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	0,0	SPARE
EXISTING VENDOR	0.8	20	1	21	- В -	22	1	30	0.0	SPARE
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	23	+ - C	24	1	20	8.0	EXISTING VENDOR
SPARE (ICIOSK)	0.0	20	T	25	A	26	1	20	0.8	EXISTING VENDOR
SPARE	0,0	20	1	27	- B -	28	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	29	C	30	1	20	0.0	SPARE .
SPARE	0,0	20	1	31	A	32	1	20	0,8	EXISTING VENDOR
SPARE	0,0	20	1	33	-В-	34	1	20	0.0	SPARE
SPARE	0,0	20	1	35	C	36	1	20	0.0	SPARE
SPARE	0,0	20	1	37	A	38	3	40	2.9	EXIST. LOAD CENTER "KES"
SPARE	0,0	20	1	39	- B -	40	-	-	2.5	
SPARE	0.0	20	1	41	C	42		-	2.5	
	2. CB TO	BE RES	ERVED	FORF	UTURE /	AFC				
			LC	)AD	SUN	IMA	RY			
LIGHTS		0.0	x 1259	6					0.0	KVA
RECEPT ACLES, FIRST 10 KVA		10.0	x 1009	6					10.0	KVA
RECEPTACLES		8,0	x 50%						4.0	KVA
MISC, APPLIANCES		0.0	x 1009	6					0.0	K/A
LARGEST MOTOR		0.0	x 1259	6					0,0	KVA
MOTORS		0.0	x 1009	6					0.0	KVA
HEAT		3.0	x 1259	16					3,6	I KVA
AC .			x 1001						4.5	i KVA
WATER HEATING			x 1251						0.0	KVA
TOTAL CONNECTED LOAD			KVA	•	TOT	AL DEB	IAND K	VA.	22.5	I KVA
IO INT COUNTER ED FOND		240				AL DEL				AMPS
	ARY									
CONNECTED LOAD PHASE SUMM			100.00							
CONNECTED LOAD PHASE SUMM PHASE A:		9,3	I KVA							
			KVA							

CIRCUIT #2-200/3P (SEE ATTACHED DWG. NM-C-E37).

B. EXISTING WIRING FED FROM BOTTOM PANEL BY:

- 3-4" C. (WIRING FILL >30%).

- 1-3/4" C. (WIRING FILL >20%).

EXISTING WIRING FED FROM TOP PANEL BY:

= 3-3/4" C. (WIRING FILL >40%).

= 1-1/2" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM LEFT SIDE PANEL BY:

- 1-4" C. (WIRING FILL >40%).

14-FQ10060-CENI-24

				REFERENCE DRAWINGS	ı		REVISIONS
DESIGNED	C. HIDO	09-14 DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	C. HEO	09-14					
CHECKED	B. IDILBI	DATE 09-14					
		DATE	-		_	-	
APPROVED	N/A	DATE					

## WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

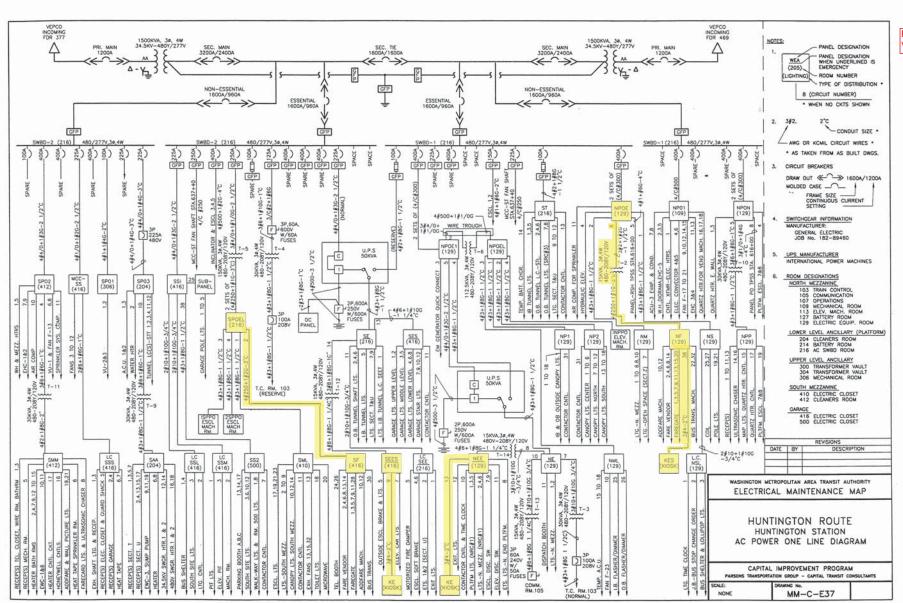
APPROVED -



NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS **HUNTINGTON - NORTH & SOUTH** PANEL SCHEDULES

		SCALE	
SUBMITTED	PROJECT MANAGER	NOI	O SCAL

C15-E-102



Pre-inspection Field Verification 10/07/2014

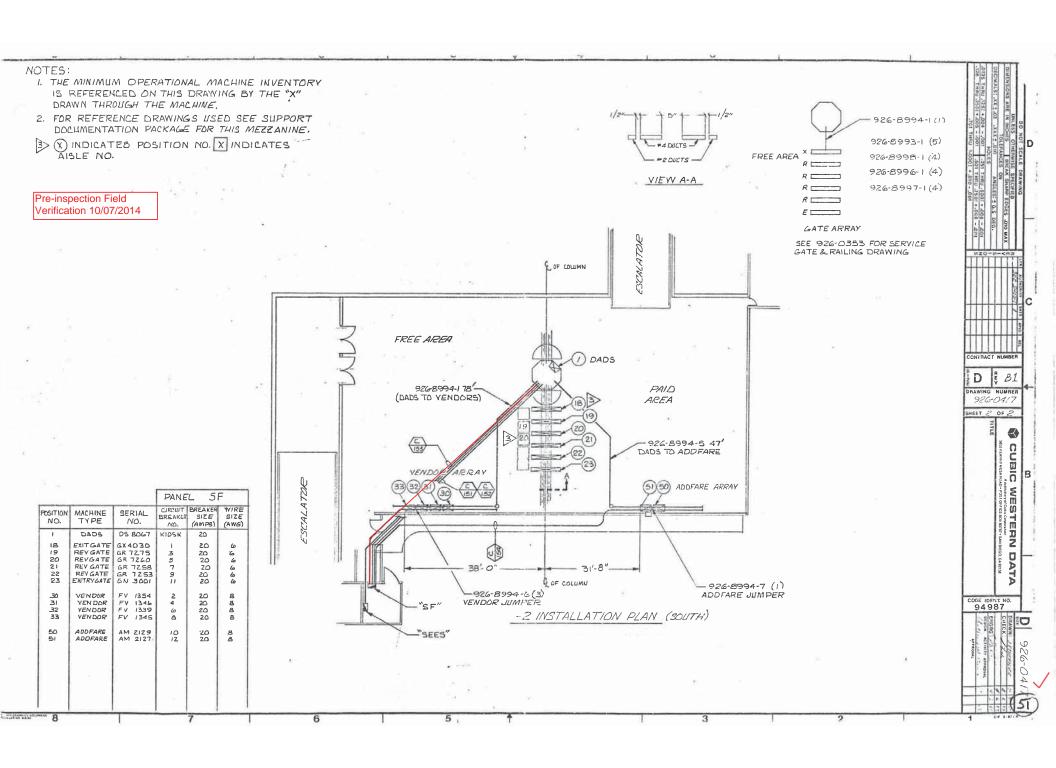
## **Pre-Inspection Mezzanine Walkthrough Checklist** Date: 10/07/2014 Station Name: C15 Huntington South Mezzanine # 051 Completed By: Tino Sahoo Room Check Task Equipment **Notes** ID Electrical Source Panel Name/Number: SPOEL Rm 216 is located on platform level Track 1 wayside. 216 SFFS Rm 416 is located in Parking Garage. 416 Verify electrical power design Source Breaker Name/Number: $\checkmark$ matches the field/record. Circuit #2, 3PH 216 Emergency circuit is Circuit #9 on Source Panel 'SEES' Circuit #9, (Panel SEES) Identify locations of the 416 for KE (Kiosk Panel). electrical equipment. Electrical AFC Panel Name/Number: SF, KE (Kiosk) 416, Kiosk Source Panels: Is there a disconnect switch Disconnect Name/Number: N/A SPOEL (Rm 216) AFC Source connected to the AFC electrical **√** SEES (RM 416) KE (Kiosk) Source power panel? Low or High voltage SMNT/POWR escorts: LOW Voltage Breakers: SMNT/POWR escorts required? Circuit #2 of Panel SPOEL Circuit #9 of Panel SEES Check if there is a shared Affected Panels: Do AFC Panel loads feed into a shared raceway between AFC Panel raceway e.g. trench or trough? If Yes, SF (416) AFC Panel **√** NO C106 and Kiosk and identify additional specify source panels in notes. KE (Kiosk) Panel located in Kiosk source panels to de-energize Identify the assumed pathway of the PLNT ELES $\Pi$ COMM / IT duct, the location of the handholes. П RAIL **CMNT** Need AFC manhole access under machine. Hard to fish. manholes and boxes and **√** accessibility or special escort Other Access/Support: AFC requirement? Required PLNT Support for Conduit/duct run on multiple levels. Junction box located NO handhole/manhole access? under fare-card vending machine. Identify handhole or manhole access $\checkmark$ Over 150' run from AFC Panel (SF) to Kiosk. requirement. Identified Conduit/Duct NO Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC $\checkmark$ **√** electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP Representative** WMATA PRGM Tino Sahoo Name: Signature: 10/07/14 Date:

Photo 1: C15 Huntington South – Panel SPOEL in Rm 216 – Panel Schedule

anel SPOEL 24 HOUR EMERGE	CIR.	SERVING
1 Panel SML	2	Panel SF
3 Panel ISPEO	4	25000
5 Spane	6	Spane
	-	
		-

Photo 2: C15 Huntington South – Panel SPOEL in Rm 216 – Circuit #2





AMPERES: 225	VOLTS:	120/208		MOUR	IT ING:	SURFA	CE			
MAINS: 200AMCB	PHASE:	3		LOCA	TION:	ELEC.	EQUIPM	ENT BAT	TERY 12	9
RATING: 10K AIC	WIRE:	4		SECT	ION: 1	OF 1				
œ=		CKT E	KRS	CKT.		CKT.	CKT	BKRS		
LOAD DESCRIPTION	KVA	AMP	POLE	NO.		NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.8	20	1	1	A	2	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	5	C	6	1	20	0,8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A	θ	1	20	0,0	SPARE
EXISTING VENDOR	0,8	20	1	9	- В -	10	1	20	8,0	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	0.8	EXISTING VENDOR
EXIST ING VENDOR	0,8	20	1	13	A	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	8,0	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	8.0	20	1	17	C	18	1	20	0,0	SPARE
EXISTING VENDOR	8,0	20	1	19	A	20	1	20	0.0	SPARE
EXISTING VENDOR	8,0	20	1	21	- B -	22	1	20	0.0	EXISTING VENDOR
NEW KIOSK RECEPT. (IT & NEPP)	0,0	20	1	23	C	24	1	20	0.0	EXISTING VENDOR
SPARE (KIOSK)	0.0	20	1	25	A	26	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	27	- B -	28	1	20	0,0	SPARE
SPARE	0.0	20	1	29	C	30	1	20	0.0	SPARE
SPARE	0.0	20	1	31	A	32		•	0,0	SPACE
SPARE	0.0	20	1	33	- В -	34	·	-	0,0	SPACE
SPARE	0.0	20	1	35	C	36	3	40	2.9	EXIST, LOAD CENTER "KES"
SPACE	0.0	٠	-	37	A	38	•	•	2.5	
SPACE	0,0	•	_	39	- B -	40	·	•	2,5	
SPACE	0.0	-	ا ن	41	C	42	التا		0.0	SPACE
	2. CB TO	BE RESE	RVED	FOR FI	JTURE A	FC				
			LC	)AD	SUM	MAI	RY			
LIGHTS		0.0	x 125%	6					0,0	KYA
		10.0	x 100%						10.0	KYA
RECEPTIACLES, FIRST 10 KVA										MATA.
RECEPTACLES, FIRST 10 KVA RECEPTACLES		0.0	x 50%						4.0	KVA
			x 50% x 100%							KYA KYA
RECEPTACLES		0.0							0.0	
RECEPTACLES MISC APPLIANCES		0.0	x 100%	<u>.</u>					0.0	KYA
RECEPTACLES MISC APPLIANCES LARGEST MOTOR		0.0	x 100% x 125%						0.0 0.0 0.0	KYA KVA
RECEPTIACLES MISC APPLIANCES LARGEST MOTOR MOTORS		0.0 0.0 0.0 3.0	x 100% x 125% x 100%						0.0 0.0 0.0 3.8	KYA KYA KYA
RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT		0.0 0.0 0.0 3.0 4.5	я 100% х 125% х 100% х 125%						0.0 0.0 0.0 3.8 4.5	KYA KYA KYA KYA
RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT		0.0 0.0 0.0 3.0 4.5	x 100% x 125% x 100% x 125% x 100% x 125%			l, dem			0.0 0.0 0.0 3.8 4.5 0.0 22.3	icva icva icva icva icva icva
RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT AC MATER HEATING TOTAL CONNECTED LOAD		0.0 0.0 0.0 3.0 4.5	x 100% x 125% x 100% x 125% x 100% x 125%			I, DEM.			0.0 0.0 0.0 3.8 4.5 0.0 22.3	KVA KVA KVA KVA KVA
RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT AC MATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASE SUMM.	ARY	0.0 0.0 0.0 3.0 4.5 0.0 25.5	x 100% x 125% x 100% x 125% x 100% x 125% KVA						0.0 0.0 0.0 3.8 4.5 0.0 22.3	icya icya icya icya icya icya icya
RECEPTACLES MISC APPLIANCES LARGEST MOTOR MOTORS HEAT AC MATER HEATING TOTAL CONNECTED LOAD	ARY	0.0 0.0 0.0 3.0 4.5 0.0 25.5	x 100% x 125% x 100% x 125% x 100% x 125%						0.0 0.0 0.0 3.8 4.5 0.0 22.3	icva icva icva icva icva icva

NOTES: A EXISTING PANEL "NF" IS FED FROM 277/480V, 34, 4W EXISTING PANEL "NPOE" LOCATED IN AC SWBD BATTERY RM 216, CIRCUIT #6-125/3P VIA 75 KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E37).

B. EXISTING WIRING FED FROM BOTTOM PANEL BY: - 1-6"x 6" WIRE TROUGH THRU 3-2" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM TOP PANEL BY: - 1-1/2" C. (WIRING FILL >40%).

Pre-inspection Field Verification 10/07/2014

AMPERES: 225	VOLTS:	120/208		MOUN	ITING:	SURF/	CE						
MAINS; 225AMLO	PHASE:	3	_	LOCA	TION:	ELEC.	EQUIPA	AENT 416	7				
RATING: 10KAC	WIRE:	4		SECT	ION: 1	OF 1							
		CKTE	KRS	акт.		CKT.	CKT	BICRS					
LOAD DESCRIPTION	KVA	AMP	POLE	NO.		NO.	POLE	AMP	ICVA	LOAD DESCRIPTION			
EXISTING VENDOR	0,8	20	1	1	A	2	1	20	0.8	EXISTING VENDOR			
EXISTING VENDOR	8.0	20	1	3	- B -	4	1	20	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	5	C	6	1	20	8,0	EXISTING VENDOR			
EXISTING VENDOR	8,0	20	1	7	A	8	1	20	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	8.0	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	0,8	EXISTING VENDOR			
SPARE	0,0	20	1	13	A	14	1	20	0,8	EXISTING VENDOR			
EXISTING VENDOR	0,8	20	1	15	- B -	16	1	20	0.0	SPARE			
EXISTING VENDOR	0,0	20	1	17	C	18	1	20	0,0	SPARE			
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	0,0	SPARE			
EXISTING VENDOR	0.8	20	1	21	- В -	22	1	30	0.0	SPARE			
NEW KIOSK RECEPT. (IT & NEPP)	0.0	20	T	23	C	24	1	20	8.0	EXISTING VENDOR			
SPARE (KIOSK)	0.0	20	T	25	A	26	1	20	0.8	EXISTING VENDOR			
SPARE	0,0	20	1	27	- B -	28	1	20	8.0	EXISTING VENDOR			
SPARE	0.0	20	1	29	C	30	1	20	0.0	SPARE			
SPARE	0,0	20	1	31	A	32	1	20	8,0	EXISTING VENDOR			
SPARE	0,0	20	1	33	- В -	34	1	20	0,0	SPARE			
SPARE	0,0	20	1	35	C	36	1	20	0.0	SPARE			
SPARE	0,0	20	1	37	A	38	3	40	2.9	EXIST. LOAD CENTER "KES"			
SPARE	0,0	20	1	39	- B -	40	-	-	2.5				
SPARE	0.0	20	1	41	C	42		-	2.5				
NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB 2. CB TO BE RESERVED FOR FUTURE AFC													
			LO	DAC	SUN	IMA	RY						
LIGHTS		0.0	x 1259	%					0.0	) KVA			
RECEPT ACLES, FIRST 10 KVA		10.0	x 1009	%					10.0	) KVA			
RECEPTACLES		8,0	x 50%						4.0	KVA			
MISC, APPLIANCES		0.0	x 1005	%					0.0	) KVA			
LARGEST MOTOR		0.0	x 1259	%					0,0	NVA			
MOTORS		0.0	x 1001	%					0.0	) KVA			
HEAT		3.0	x 1259	%					3,6	I KVA			
AC			x 100						4.5	5 KVA			
WATER HEATING			x 125						0.0	) KVA			
TOTAL CONNECTED LOAD			KVA		TOT	AL DE	AAND K	CVA		3 KVA			
TO THE SOURCE EN FOUR		240	- /4974				AND A			AMPS			
CONNECTED LOAD PHASE SUM M	ARY												
	9,3	I KVA											
PHASE A: PHASE B:			KVA KVA										

CIRCUIT #2-200/3P (SEE ATTACHED DWG. MM-C-E37).

B. EXISTING WIRING FED FROM BOTTOM PANEL BY:

- 3-4" C. (WIRING FILL >30%).

- 1-3/4" C. (WIRING FILL >20%).

EXISTING WIRING FED FROM TOP PANEL BY:

= 3-3/4" C. (WIRING FILL >40%).

= 1-1/2" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM LEFT SIDE PANEL BY:

- 1-4" C. (WIRING FILL >40%).

14-FQ10060-CENI-24

		REFERENCE DRAWINGS	ı		REVISIONS
DESIGNED C. NOO 09-14 DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN C. NEO 09-14					
CHECKED B. UND DATE			$\vdash$	-	-
ADDROVED N/A					
DATE	-			<del> </del>	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM APPROVED -



NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS HUNTINGTON - NORTH & SOUTH PANEL SCHEDULES

NOT TO SCALE SUBMITTED PROJECT MANAGER

C15-E-102

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## **Pre-Inspection Mezzanine Walkthrough Checklist** Date: 08/28/2014 Station Name: Mt. Vernon Square Mezzanine # 070 Completed By: Tino Sahoo Room Check Task Equipment **Notes** ID C207 is Electrical Equipment Room located on Flectrical Source Panel Name/Number: MPPE C207 Mezzanine Level, Room C207 is located inside of room Verify electrical power design C204. Source Breaker Name/Number: $\checkmark$ matches the field/record. C207 Circuit #4, 3PH Identify locations of the electrical equipment. Electrical AFC Panel Name/Number: C207 Is there a disconnect switch Disconnect Name/Number: connected to the AFC electrical **√** power panel? Low or High voltage SMNT/POWR escorts: LOW Voltage SMNT/POWR escorts required? Check if there is a shared Do AFC Panel loads feed into a shared raceway between AFC Panel raceway e.g. trench or trough? If Yes, **√** NO and Kiosk and identify additional specify source panels in notes. source panels to de-energize Identify the assumed pathway of the PLNT 🔽 ELES $\Pi$ COMM / IT duct, the location of the handholes. П RAIL **CMNT** П manholes and boxes and **√** accessibility or special escort Other Access/Support: requirement? Required PLNT Support for All conduits/duct on same level (Mezzanine) YES (see notes) handhole/manhole access? Identify handhole or manhole access $\checkmark$ requirement. Identified Conduit/Duct YES Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC $\checkmark$ **√** electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP** Representative WMATA PRGM Tino Sahoo Name: Signature: 08/28/2014 Date:

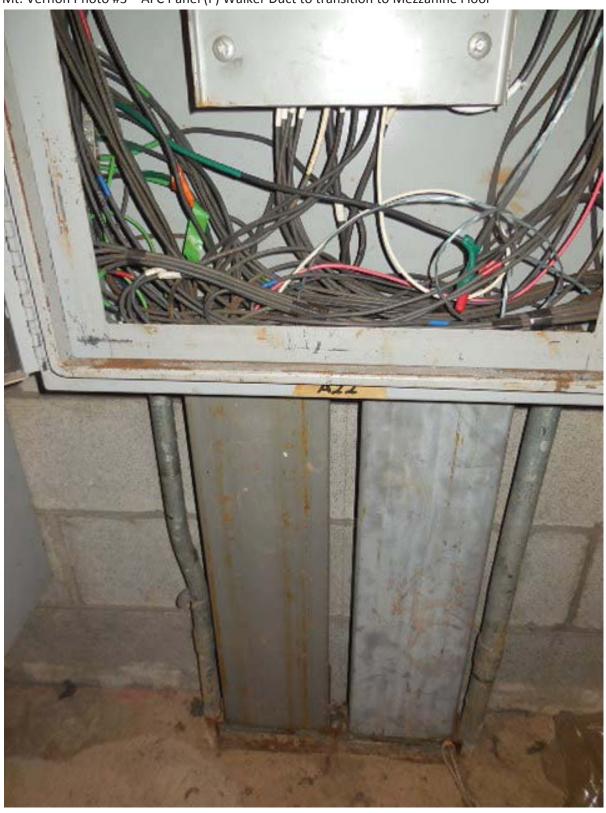
Mt. Vernon Photo #1 – AFC Panel (F) - Room C207 (Mezzanine Level)







Mt. Vernon Photo #3 – AFC Panel (F) Walker Duct to transition to Mezzanine Floor

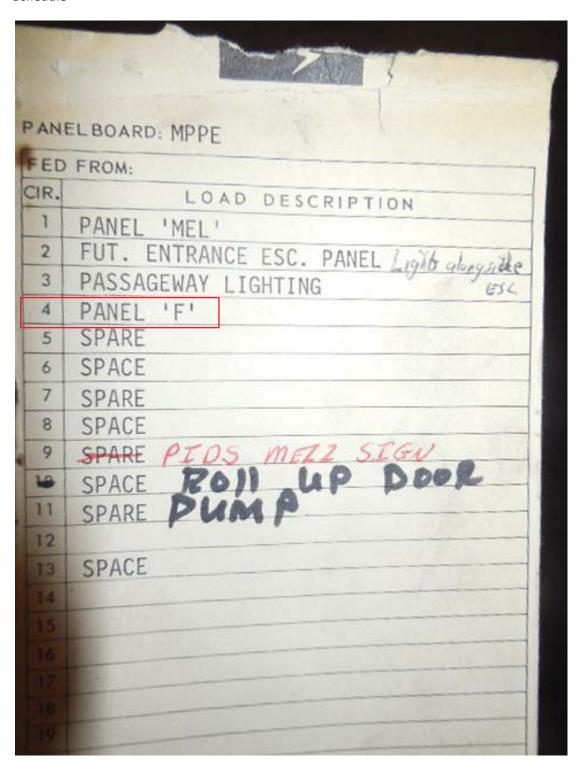


Mt. Vernon Photo #4— – AFC Source Panel (MPPE) located in Room #C207 on Mezzanine Level. Source Breaker (Circuit #4, 3PH) for AFC Panel (F)

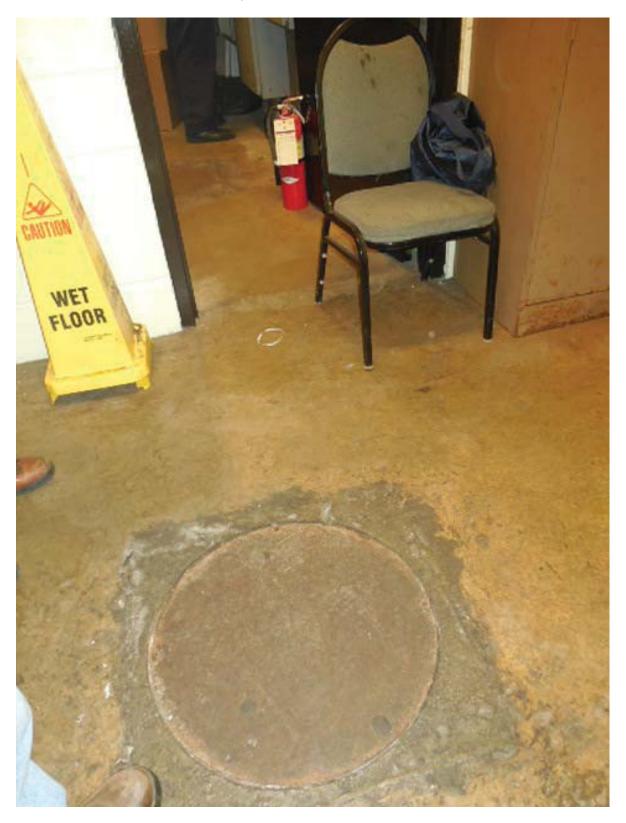




Mt. Vernon Photo #5 - AFC Source Panel (MPPE) located in Room #C207 on Mezzanine Level Panel Schedule

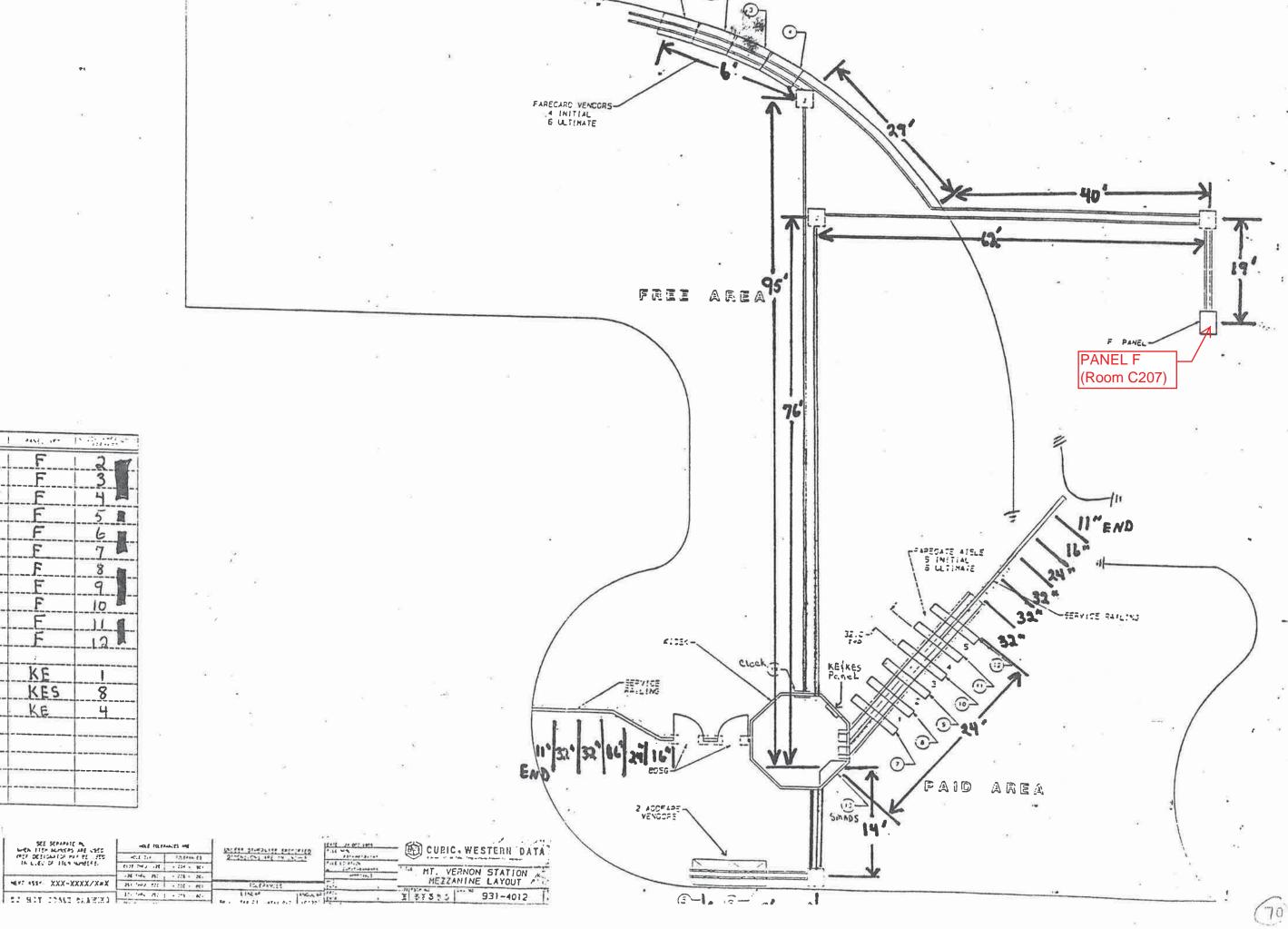


Mt. Vernon Photo #6 – Manhole located in hallway of C204 in which walker duct runs through to another manhole in mezzanine area by kiosk. About 81' from AFC Panel (F).



Mt. Vernon Photo #7 – Handholes located in mezzanine area by kiosk. About 75' from Kiosk.



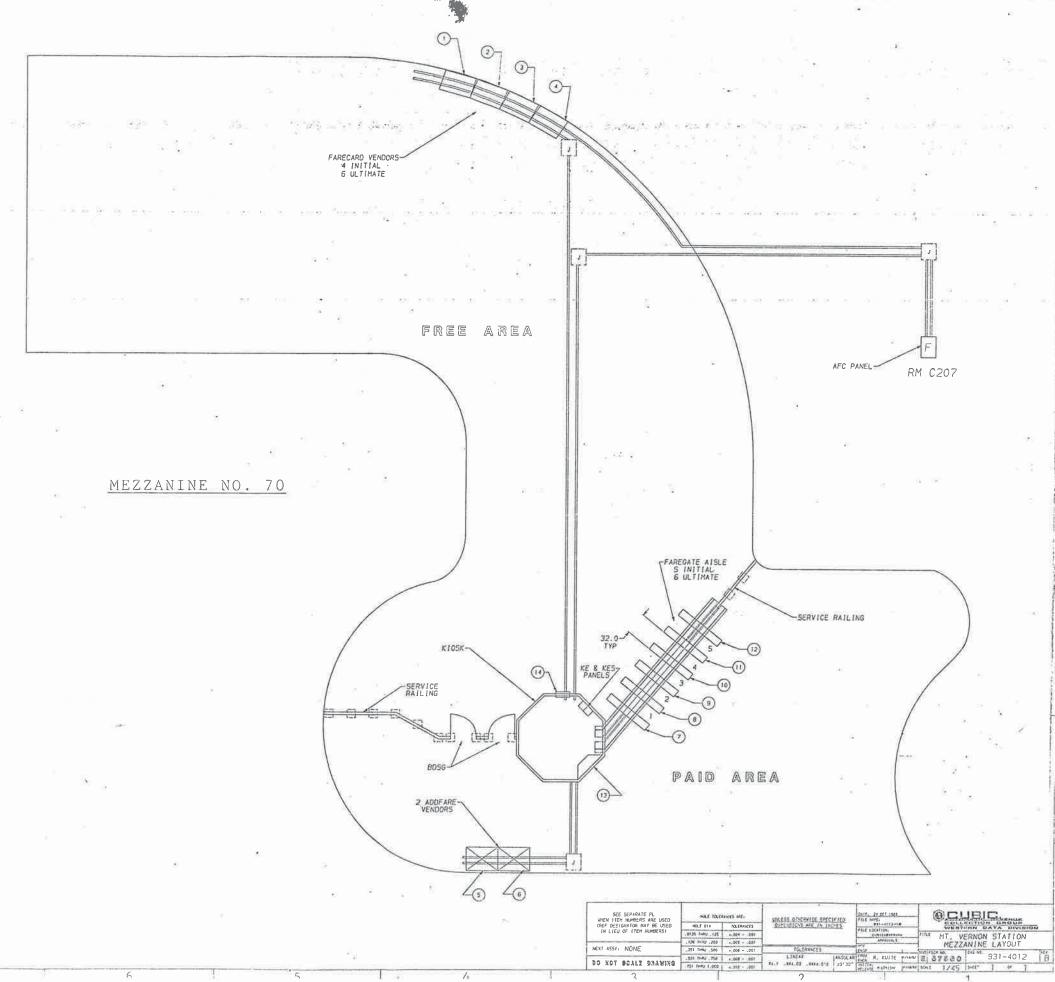


P454, 18\* 15 275 - 1882 - 18 1 -5 1002 FV1851 - ENDOR FVISIC 3 | 151000 FV 18 45 4 .61008 FV1832 E ACCEARE AF2814 E -COFAPE AF2815 - EMIEN GATE EG 3810 3 PEV. GATE RG 7844 9 3 -EY. GATE RE7843 10 PEV. GATE RG-7824 11 PEV. GATE RG 7822 TE EXIT GATE XG 4907 13 55405 5m 3808 14 GLOCK 98911 KES 8 Emergency Lights

MENT 455" XXX-XXXX/X#X

- 1. FOR VENCOR AND ADDFARE INSTALLATION SEE 931-4002.
- 2. FOR SMADS INSTALLATION SEE 931-4001.
- FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
- FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
- 5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
- 6. CIRCUIT BREAKERS WITH COMMON NEUTRAL: 2, 3 & 4; 6 3 7; 8, 9 & 10; 11 & 12.

TEM.	NAME	5/N	PANEL AFC	KIOSK EMERGENG SREAKER
1	VENDOR	1851	F	2
2	VENDOR	1810	F	3
3	VENDOR	1845	F	4
4	VENDOR	i 832	F	S
5	ADDFARE	2614	F	6
6	ADDFARE	2815	F	7
7	ENTRY GATE	3810	F	8
8	REV. GATE	7844	F	9
9	REV. GATE	7843	F	10
10	REV. GATE	7809	F	11
11	REV. GATE	7807	F	12
12	EXIT GATE	4807	F	N/A
13	SMADS	8808	KE	1
4	CLOCK	98911	KES	8
15	EMERGENCY LT		KE	4
				/



AMPERES: 225	VOLTS:	120/20B		IMOUN	ITING:	SURE/	ACE.			
MAINS: 225AMCB	PHASE:			-	TION:			EQUIPME	NT ROO	M C207
RATING: 10K AIC	WIRE:				ION: 1					
TOTAL	THICE.	CKTE	KDC	CKT.	10.11.	скт.	Тект	BKRS		
LOAD DESCRIPTION	I KVA	AMP	POLE	1		NO.	POLE		KVA	LOAD DESCRIPTION
SPARE .	0.0	20	1		A	2	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.8	EXISTING VENDOR
SPARE SPARE	0.0	20	1	5	C	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.0	20	1	11	- C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	C	18	1	20	0.0	SPARE SPARE
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	0.8	EXIST ING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXIST ING VENDOR
	8.0	20	1	23	- C	24	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1 1	25	A	26	1	20	0.8	EXISTING VENDOR
NEW KIOPSK RECEPT. (IT & NEPP)	0.0	20	1	27	- B -	28	1 1	20	8.0	EXISTING VENDOR
SPARE (KIOSK)		20	1	29	C	30	1	20	0.0	SPARE
SPARE	Ŭ.O	20	1	31		32	1	20	0.0	EXISTING VENDOR
SPACE	0.0	20	1	33	A	34	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	8.0	20				36	1	20	0.0	SPARE
EXISTING VENDOR	0.8		1	35	- · C		<del>  '</del>	20		SPACE
EXIST. KIOSK LOAD CENTER "KES"		40	3	37	A	38		<u> </u>	0.0	SPACE
	2.5	·	<u> </u>	39	- B -	40		-	0.0	SPACE
	2.5	<u> </u>	<u> </u>	41	· · C	42	·		0.0	SPACE
•	0.0 : 1. CON	<u> </u>	1 .	43	A · ·	44			0.0	-
	2. CB TC	) BE RES	ERVED	FORF	UTURE	AFC				
			L	DAD	SUN	ЛМА	RY			
LIGHTS		0.0	x 125	%					0.6	) KVA
RECEPTACLES, FIRST 10 KVA		10.0	x 1009	%					10.9	) KVA
RECEPTACLES			x 50%						6.1	6 KVA
MISC. APPLIANCES			x 100							D KVA
moore I GRITOLO		_	x 125						_	D KVA
LARGEST MOTOR			x 100							) KVA
										8 KVA
MOTORS			_	24						
MOTORS HEAT		3.0	x 125						4	5 V\/A
MOTORS HEAT AC		3.0	x 125°	%						5 KVA
MOTORS HEAT AC WATER HEATING		3.0 4.5 0.0	x 125 <sup>1</sup> x 100 <sup>1</sup> x 125 <sup>1</sup>	%				g 14	0.	0 KVA
MOTORS HEAT AC WATER HEATING		3.0 4.5 0.0	x 125°	%			MAND K		0. 24.	0 KVA 9 KVA
MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD	<b>ARY</b>	3.0 4.5 0.0	x 125 <sup>1</sup> x 100 <sup>1</sup> x 125 <sup>1</sup>	%			MAND M		0. 24.	0 KVA
MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASE SUMM.	٩RY	3.0 4.5 0.0 30.7	x 125 <sup>1</sup> x 100 <sup>1</sup> x 125 <sup>1</sup>	%					0. 24.	0 KVA 9 KVA
LARGEST MOTOR MOTORS HEAT AC WATER HEATING TOTAL CONNECTED LOAD CONNECTED LOAD PHASE SUMM, PHASE A: PHASE B:	ARY	3.0 4.5 0.0 30.7	x 125 <sup>1</sup> x 100 <sup>0</sup> x 125 <sup>1</sup> KVA	%					0. 24.	0 KVA 9 KVA

NOTES: A EXISTING PANEL "F" IS FED FROM 120/208V, 3ø, 4W EXISTING PANEL "MPPE" LOCATED IN ELECTRICAL EQUIPMENT RM. C207, #4-225/3P (SEE ATTACHED DWG. MM-E-E06).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:

\* 1-4" C. TO PANEL "MPPE" (WIRING FILL >40%). EXISTING WIRING FED FROM BOTTOM OF PANEL BY:

\* 2-6 1/2"x 1 1/2" FLOOR DUCT (WIRING FILL >40%).

\* 2-3/4" C. (WIRING FILL >40%).

14-FQ10060-CENI-24

			REFERENCE DRAWINGS		REVISIONS		
DESIGNED C	NCO	06-14	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN C.	NGD	DATE 05-14					
CHECKED	DLB	DATE 68-14					
APPROVED #/	/A	DATE	_				
		DATE					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED -



NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS MT VERNON SQUARE PANEL SCHEDULE

SUBMITTED PROJECT MANAGER

SCALE NOT TO SCALE E01-E-102 -5 SETS OF 4/C #500 + 1 #1/0G

14692 PEPCO INCOMING

1500 KVA 30, 4W 15 8KV~480Y/277V

NOTES:

PANEL DESIGNATION

14694 PEPCO INCOMING

## **Pre-Inspection Mezzanine Walkthrough Checklist** Station Name: E02 Shaw-Howard U (S) Mezzanine # 071 Completed By: Tino Sahoo Date: 09/30/2014 Room Check Task Equipment Notes ID AC Switchboard room is located on platform level, Track 220 Electrical Source Panel Name/Number: Essential SWBD LOAD 2 wayside. Verify electrical power design Source Breaker Name/Number: 1 matches the field/record. 220 "PANEL SF" Circuit #5 Identify locations of the electrical equipment. Electrical AFC Panel Name/Number: SF 208 Kiosk Emergency Panel is Panel SKE (Kiosk). Source Is there a disconnect switch Disconnect Name/Number: N/A Panel is Panel SMEP (Rm. 208) and circuit #6. connected to the AFC electrical 1 power panel? Low or High voltage SMNT/POWR escorts: HIGH Voltage SMNT/POWR escorts required? Check if there is a shared Do AFC Panel loads feed into a shared raceway between AFC Panel raceway e.g. trench or trough? If Yes, ~ NO and Kiosk and identify additional specify source panels in notes. source panels to de-energize Identify the assumed pathway of the PLNT 🔽 ELES $\Pi$ COMM / IT duct, the location of the handholes. П RAIL **CMNT** manholes and boxes and ~ accessibility or special escort Other Access/Support: requirement? Required PLNT Support for Access to multiple handholes are required. YES (see notes) handhole/manhole access? Identify handhole or manhole access V requirement. Identified Conduit/Duct YES Transition to mezzanine level? **Emergency Power Verification** Check Task YES NO NA Comments Verification of the electrical plan to the existing schematic if the AFC V $\overline{\mathbf{v}}$ electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source Notes and Discrepancies: Sign Off **GFP** Representative WMATA PRGM Tino Sahoo Name: Tarmeya Schoo Signature: 9/30/14 Date:

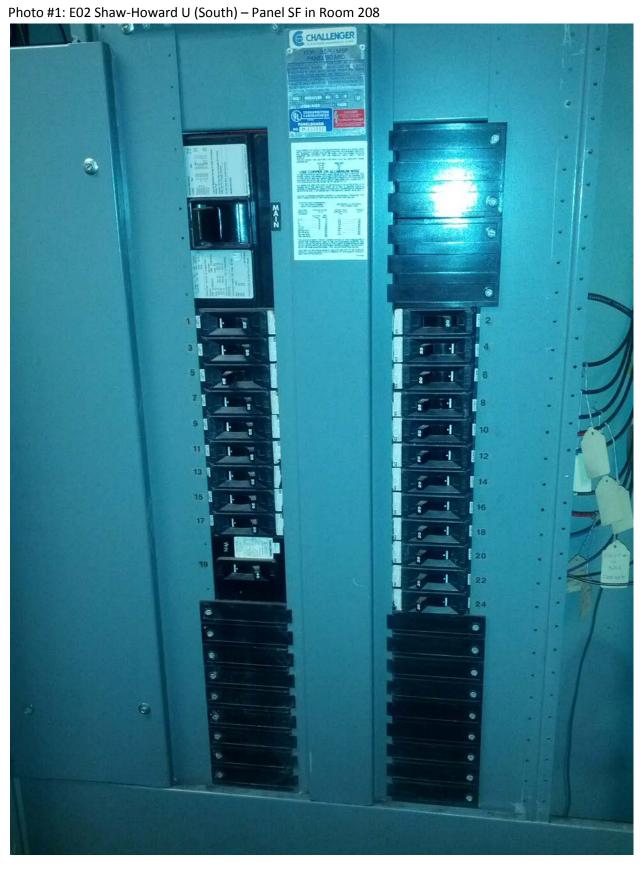


Photo #2: E02 Shaw-Howard U (South) – Top of Panel SF in Room 208



Photo #3: E02 Shaw-Howard U (South) – Junction box and drop to Panel SF in Room 208

PHOLO #4. EUZ SIIAW-NOWALD O (SOULT)) — JUILCLIOII BUX AIIU NISEL ITERAL NOUTIL ZUS

Photo #4: E02 Shaw-Howard U (South) – Junction Box and Riser near Room 208

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Photo #5: E02 Shaw-Howard U (South) – Junction Box, riser, and walker duct near Room 208

Photo #6: E02 Shaw-Howard U (South) – Conduit Riser near Room 208



Photo #7: E02 Shaw-Howard U (South) – Mezzanine level handhole opposite Room 208

Photo #8: E02 Shaw-Howard U (South) – Mezzanine level handhole

Photo #9: E02 Shaw-Howard U (South) – Mezzanine level handholes



Photo #10: E02 Shaw-Howard U (South) – Mezzanine level handholes

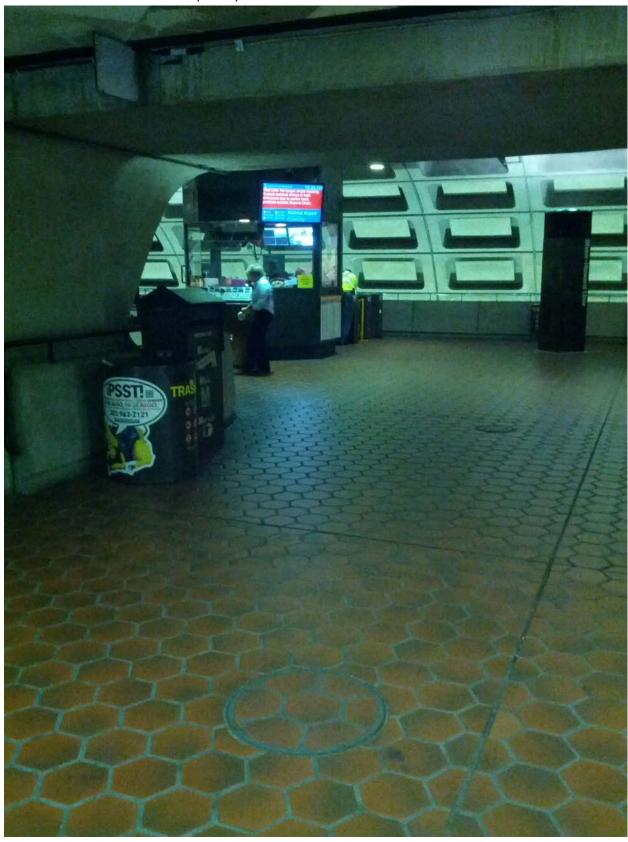


Photo #11: E02 Shaw-Howard U (South) – SWBD Breaker for panel SF





1 FOR VENDOR AND ADDEARE INSTALLATION SEE 931-4002

Pre-inspection Field Verification

- 2. FOR SMADS INSTALLATION SEE 931-4001
- FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
- 4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
- 6. CIRCUIT BREAKERS WITH COMMON NEUTRAL: 7, 9 & 11; 16 & 18; 2 & 4; 6 & 8.

NAME

I VENDOR 2 VENDOR

3 VENDOR

4 VENDOR

5 ADDFARE

6 ADDFARE

Z EXIT GATE

REV. GATE

ENTRY GATE

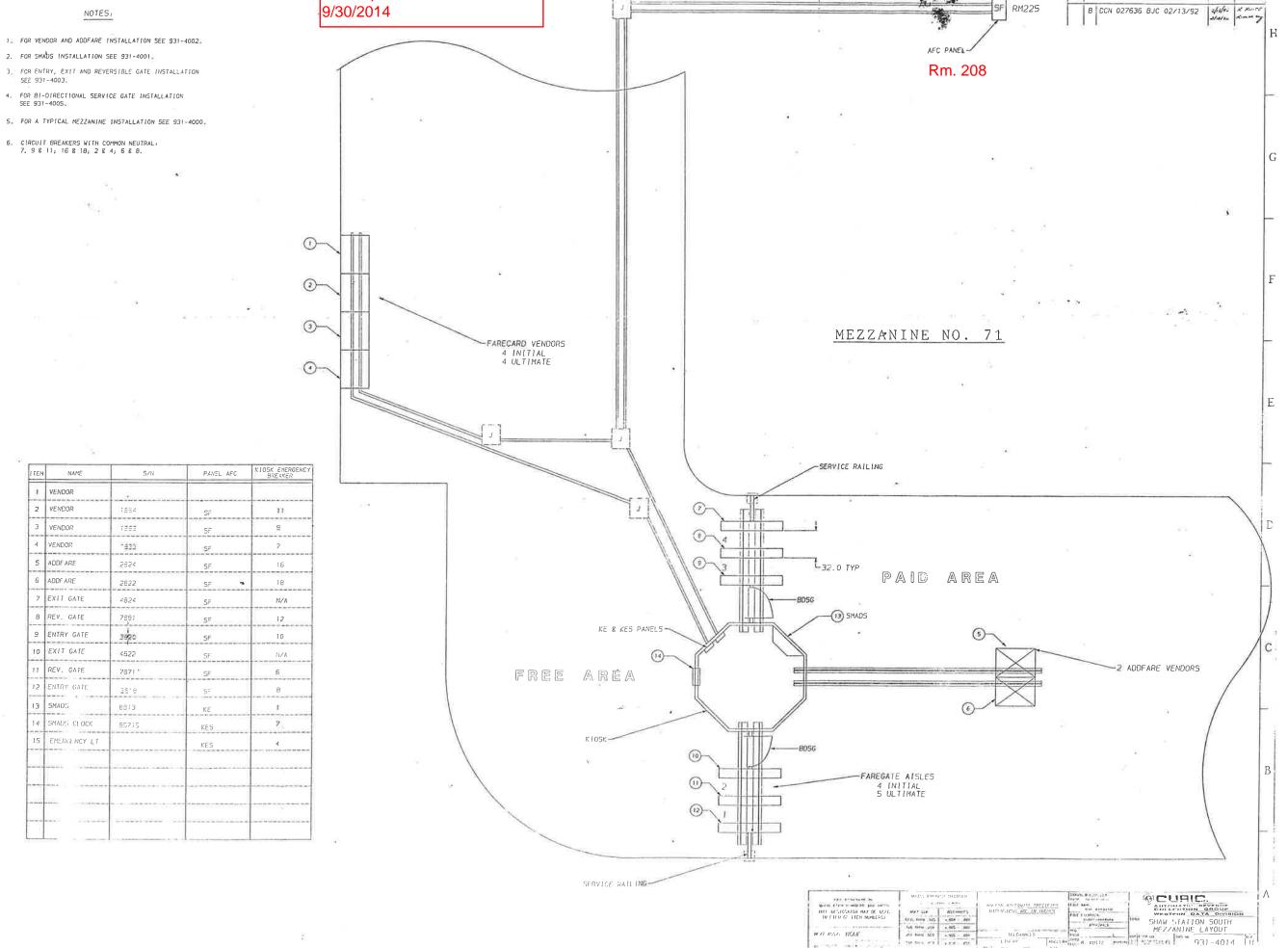
EXIT GATE

REV. GATE

ENTRY GATE

4 SMADS CLOCK

3 SMADS



REVISIONS
ABY DESCRIPTION
A INITIAL RELEASE

## Pre-inspection Field Verification 9/30/2014

AMPERES 400

MAINS: 250AMCB

RATING: 10K AIC

EXISTING VENDOR

EXISTING VENDOR

EXISTING VENDOR

EXISTING VENDOR

EXISTING VENDOR

**EXIST ING VENDOR** 

**EXISTING VENDOR** 

EXISTING VENDOR

EXISTING VENDOR

182 SPARE (KIUSK)

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

LIGHTS

RECEPTACLES

MOTORS

PHASE A:

PHASE B.

PHASE C

HEAT

MISC APPLIANCES

LARGEST MOTOR

WATER HEATING TOTAL CONNECTED LOAD

RECEPT ACLES, FIRST 10 KVA

CONNECTED LOAD PHASE SUMMARY

EXIST LOAD CENTER "KES"

NEW KIOSK RECEPT. (IT & NEPP)

LOAD DESCRIPTION

		Ε	XIS	TING	G PA	NEL	"NF	:"		
AMPERES 400	VOLTS.	120/208		MOU	ITING:	SURFA	VCE			
MAINS: 250A MCB	PHASE.	3		LOCA	TION.	ELECT	RICAL I	EQUIPME	NT ROO	M 205
RATING: 10K AIC	WIRE	4		SECT	ION. 1	OF 1				
		CKT E	KRS	CKT		CKT	CKT	BKRS		
LOAD DESCRIPTION	KVA	AMP	POLE	NO		NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.8	20	1	1	Α	2	1	20	8.0	EXISTING VENDOR
EXISTING VENDOR	0.8 0.8 0.8 0.8	20 20 20 20 20	1 1 1 1 1	3 5 7 9	- B - C	4 6 8 10	1 1 1 1	20 20 20 20 20 20	0.8 0.8 0.8 0.8	EXISTING VENDOR EXISTING VENDOR EXISTING VENDOR
NEW KIOSK RECEPT. (IT & NEPP)										
EXISTING VENDOR										
EXISTING VENDOR					- B -					EXISTING VENDOR
EXISTING VENDOR					C					EXISTING VENDOR
EXISTING VENDOR	80	20	1	13	Α	14	1	20	0.8	EXISTING VENDOR
SPARE (KIOSK)	0.0	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	33	40	3	17	C	18	1	20	0.8	EXISTING VENDOR
•	25		<u> </u>	19	A	20	1	20	8,0	EXISTING VENDOR
•	25	<u> </u>	·	21	- B -	22	1	20	8.0	EXISTING VENDOR
SPACE	0.0	<u>·</u>	·	23	C	24	1	20	0.8	EXISTING VENDOR
SPACE	00	-	Ŀ	25	A	26	м	-	0.0	SPACE
SPACE	0.0		·	27	- B -	28	-	-	0.0	SPACE
SPACE	0.0	<u> </u>	Ŀ	29	C	30	-	-	0.0	SPACE
SPACE	0.0		-	31	A	32	-	-	0.0	SPACE
SPACE	0.0	•	·	33	- B -	34	-		0.0	SPACE
SPACE	0.0		· ·	35	C	36		-	0.0	SPACE
SPACE SPACE	00			37	A	38		-	0.0	SPACE SPACE
SPACE	00	<u> </u>	ļ	41	C	42	<u> </u>	<u> </u>	0.0	SPACE
	: 1. CONN	IECT NEU	A CECU				DE 20 A		00	DIAGE
	2 0810	D BE RES			SUN		RY			
LIGHTS		0.0	x 1259	4					0.0	) KVA
RECEPT ACLES, FIRST 10 KVA 10.0 x 1				% 10.0 KVA						
RECEPTACLES			.0 x 50% 30 KVA					) KVA		
MISC APPLIANCES		0.0	x 100%	6					0.0	) KVA
LARGEST MOTOR		0.0	x 125°	6					0.0	) KVA
MOTORS		0.0	x 100	6					0.0	) KVA
HEAT		3.0	x 1259	6					36	3 KVA
AC		4.5	x 1009	6					4.5	5 KVA
WATER HEATING			x 125°							) KVA
TOTAL CONNECTED LOAD		23.5	KVA				IAND K IAND A			S KVA D AMPS
CONNECTED LOAD PHASE SUMM	ARY									
PHASE A		8.1	KVA							
PHASE B:		7,3	KVA							
PHASE C		8.1	KVA							

NOTES: A EXISTING PANEL "NF" IS FED FROM 277/480V, 30, 4W EXISTING SWITCHBOARD "NSB" LOCATED IN AC SWBD. ROOM 223, #6-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E08).

- B. EXISTING WIRING FED FROM TOP OF PANEL BY:
  - \* 1-4" C. TO TRANSFORMER (1-WIRING FILL >40%).
  - \* 3-3" C. (1-EMPTY & 2-WIRING FILL >40%).

\* 2-3/4" C. (WIRING FILL >40%).

Rm 220 - Track 2 Wayside **Essential Circuit #5** 

APPROVED

NOTES: A. EXISTING PANEL "SF" IS FED FROM 277/480V, 30, 4W EXISTING SWITCHBOARD "SSB" LOCATED IN AC SWBD. ROOM 220, #6-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E08).

**EXISTING PANEL "SF"** MOUNTING: SURFACE

SECTION 1 OF 1

20 1 3 - B - 4 -1

9 B

15 - B -

1 25 A - - 26

1 27 - B - 28

- 31 A - - 32

33 - B - 34

37 A - - 38

LOAD SUMMARY

- 39 - B - 40

- 41 - - C 42

- 29

35

AND CONNECT NEW FEEDER TO 2-NEW CB 2. CB TO BE RESERVED FOR FUTURE AFC

0.0 x 125%

10.0 x 100%

84 x 50%

0.0 x 100%

00 x 125%

0.0 x 100%

3.0 x 125%

4.5 x 100%

0.0 x 125%

25,9 KVA

9.7 KVA

8.1 KVA

8.1 KVA

11

17

13 A -

5 - - C 6

7 A - - B 1

LOCATION: ELECTRICAL EQUIPMENT ROOM 208 <

1 1 A - - 2 1 20 0.8 EXISTING VENDOR

20

20

20

20

20

20

20

20

20

20

20

. .

LOAD DESCRIPTION

0.8 EXISTING VENDOR

0.8 EXISTING VENDOR

0.8 EXISTING VENDOR

08 EXISTING VENDOR

08 EXISTING VENDOR

0.6 EXISTING VENDOR

0.8 EXISTING VENDOR

0.0 SPACE

00 SPACE

0.0 SPACE

0.0 SPACE

0.0 SPACE

00 SPACE

00 SPACE

0.0 SPACE

0.0 SPACE

0.0 KVA

10.0 KVA

4 2 KVA

00 KVA

00 KVA

0.0 KVA

3.8 KVA

4.5 KVA 0.0 KVA

22.5 KVA

62.4 AMPS

CKT CKT BKRS NO POLE AMP KVA

1

10 1

12 1

14 1 1

16 1

- - C 18 1

19 A 20 1

21 - B 22 1

- - C 30

- C 36

NOTES 1. PROVIDE 2-NEW 20A, 1P CB IN AVAILABLE SPACES (NEW CB'S SHALL MATCH EXISTING CB'S)

TOTAL DEMAND KVA

TOTAL DEMAND AMPS

- 23 - - C 24 1

VOLTS 120/208

CKT BKRS CKT.

AMP POLE NO

20

20

20

20

20

20

40

20

20

3

PHASE: 3

WIRE 4

KVA

08

08

0.8

0.8

8.0

0.8

0.8

0.8

0.8

33

25

2.5

0.8

0.0

0.0

0.0

0.0

0.0

0.0

00

0.0

- B. EXISTING WIRING FED FROM TOP OF PANEL BY:
  - \* 1-4" C. TO TRANSFORMER (1-WIRING FILL >40%).
  - \* 3-3" C. (1-EMPTY & 2-WIRING FILL >40%).
  - \* 2-3/4" C. (WIRING FILL >40%).

ONTRACT NO 14-FQ10060-CENI-24

## WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF TRANSIT INFRASTRUCTURE

AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM



	NEW ELECTRONIC PAY PR	OGRAM (NEPP)
	IN METRORAIL STA	ATIONS
1	SHAW - NORTH & SC	DUTH
ı	PANEL SCHEDUL	ES

PROJECT MANAGER

NOT	10	SCALE		E02-E-10

	_	REFERENCE DRAWINGS			REVISIONS			
DESIGNED C. NOO	08-14 DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION		
DRAWN C. NGO	DATE							
CHECKED E DLE	DATE				<u> </u>			
APPROVED N/A	DATE		· <u></u>					
	UATE							