Pre-Inspection Mezzanine Walkthrough Checklist

Date: 08/28/2014	**Station Name:** L'Enfant Plaza North	**Mezzanine #** 082	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: NB (AFC Source Panel) NE (Relay Source Panel) Source Breaker Name/Number: "Panel NF" (Circuit #7) Circuit #6 of Panel NE Electrical AFC Panel Name/Number: NF	N104 N104 N104	Room N104 is AC SWBD. RM. Located Wayside on Track 2 on Platform level.
☑	Is there a disconnect switch connected to the AFC electrical power panel? Low or High voltage SMNT/POWR escorts required?	Disconnect Name/Number: N/A SMNT/POWR escorts: HIGH and LOW Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to de-energize	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes.		North ELES Remote Monitoring Status Relay Panel shares a raceway with AFC Panel NF and thus needs to also be de-energized. North ELES Remote Monitoring Status Relay Panel is serviced by Panel NEZ whose source panel is NE- Circuit #6, 3PH Breaker.
☑	Identify the assumed pathway of the duct, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☑ COMM / IT ☐ ELES ☑ RAIL ☐ CMNT ☐ Other Access/Support:		PLNT escorts needed to lift hand holes. ELES escorts needed because ELES Remote Monitoring Status Relay Panel needed to be de-energized.
☑	Identify handhole or manhole access requirement.	Required PLNT Support for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		Conduit/Duct on two levels - Platform Level Conduits in Room N104 to Mezzanine Level Handholes;

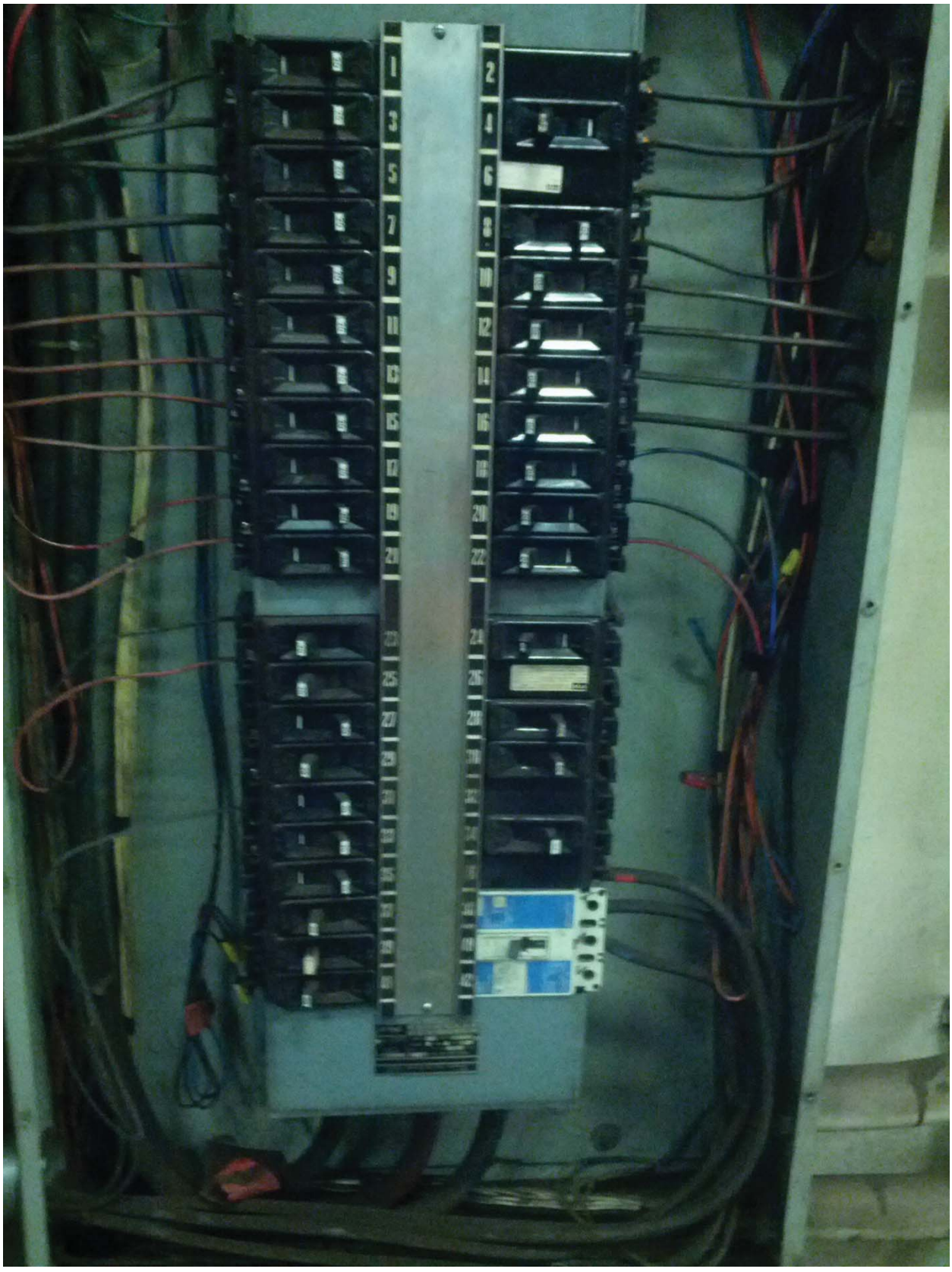
Emergency Power Verification

Check	Task	YES	NO	NA	Comments
☑	Verification of the electrical plan to the existing schematic if the AFC electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source	☐	☐	☑	

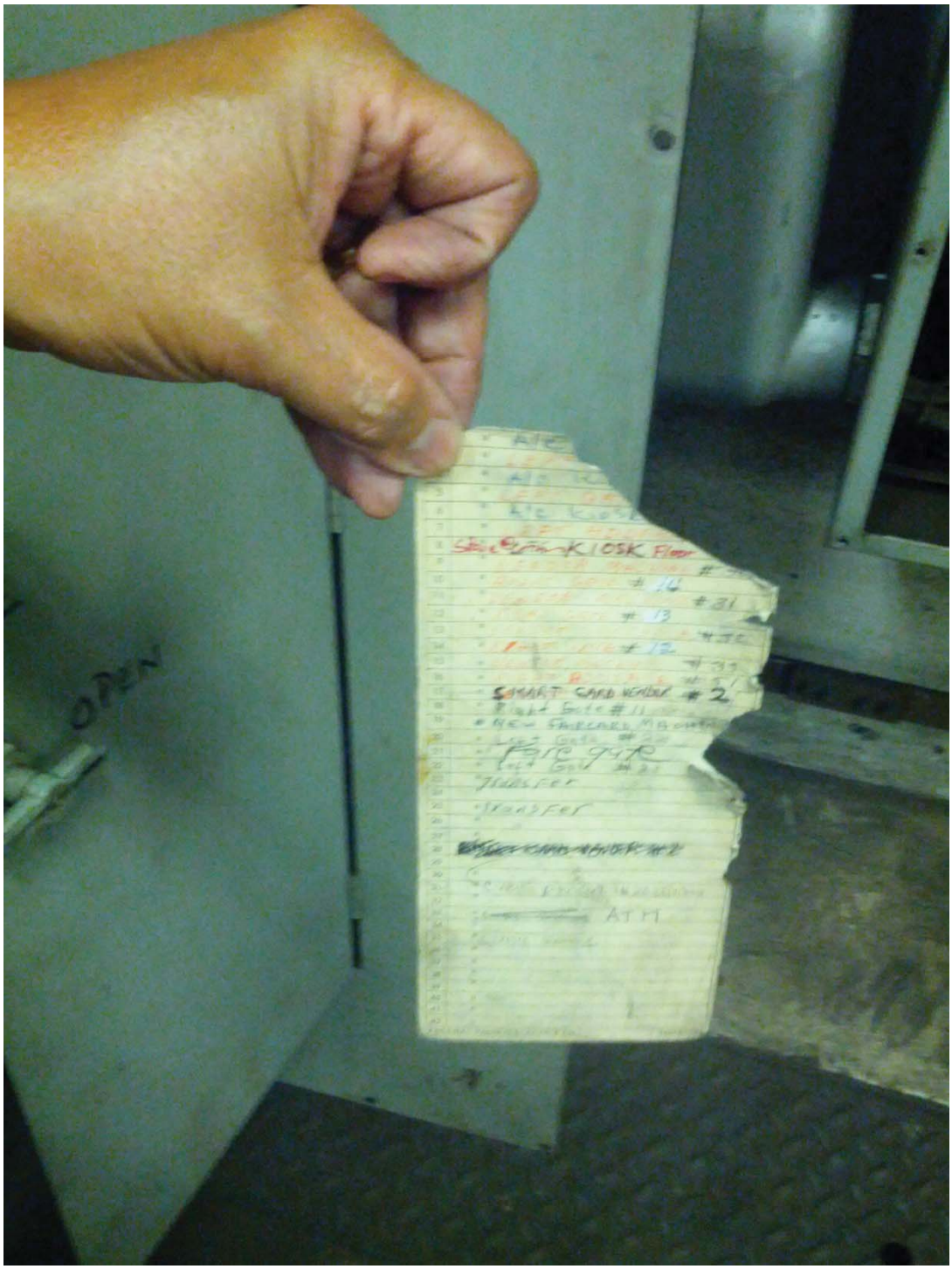
Notes and Discrepancies:

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:	Tanmaya Sahoo	
Date:	09/23/2014	

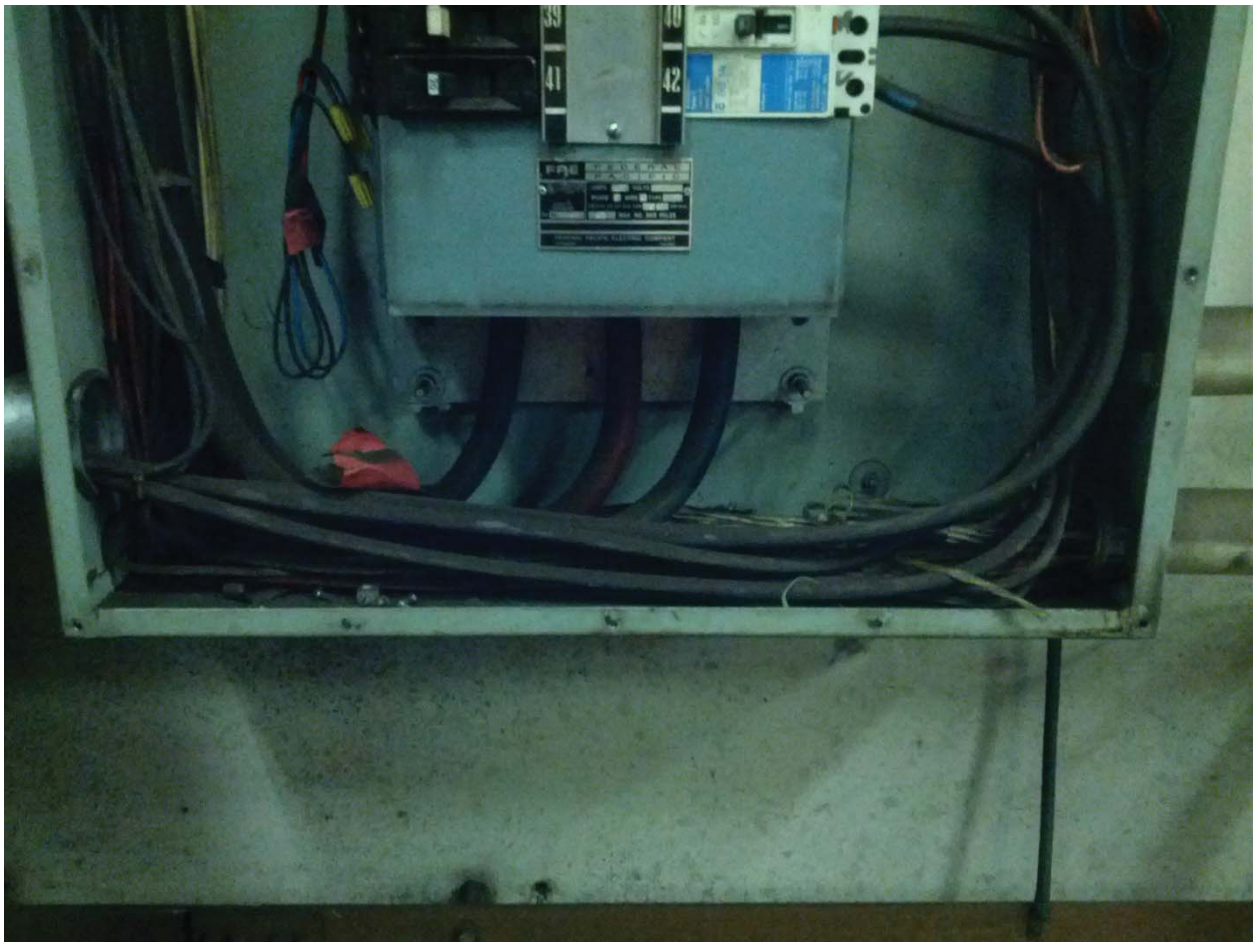
L’Enfant Plaza North Photo #1 – AFC Panel (NF) - Room N104 (Platform Level Track 2 Wayside)



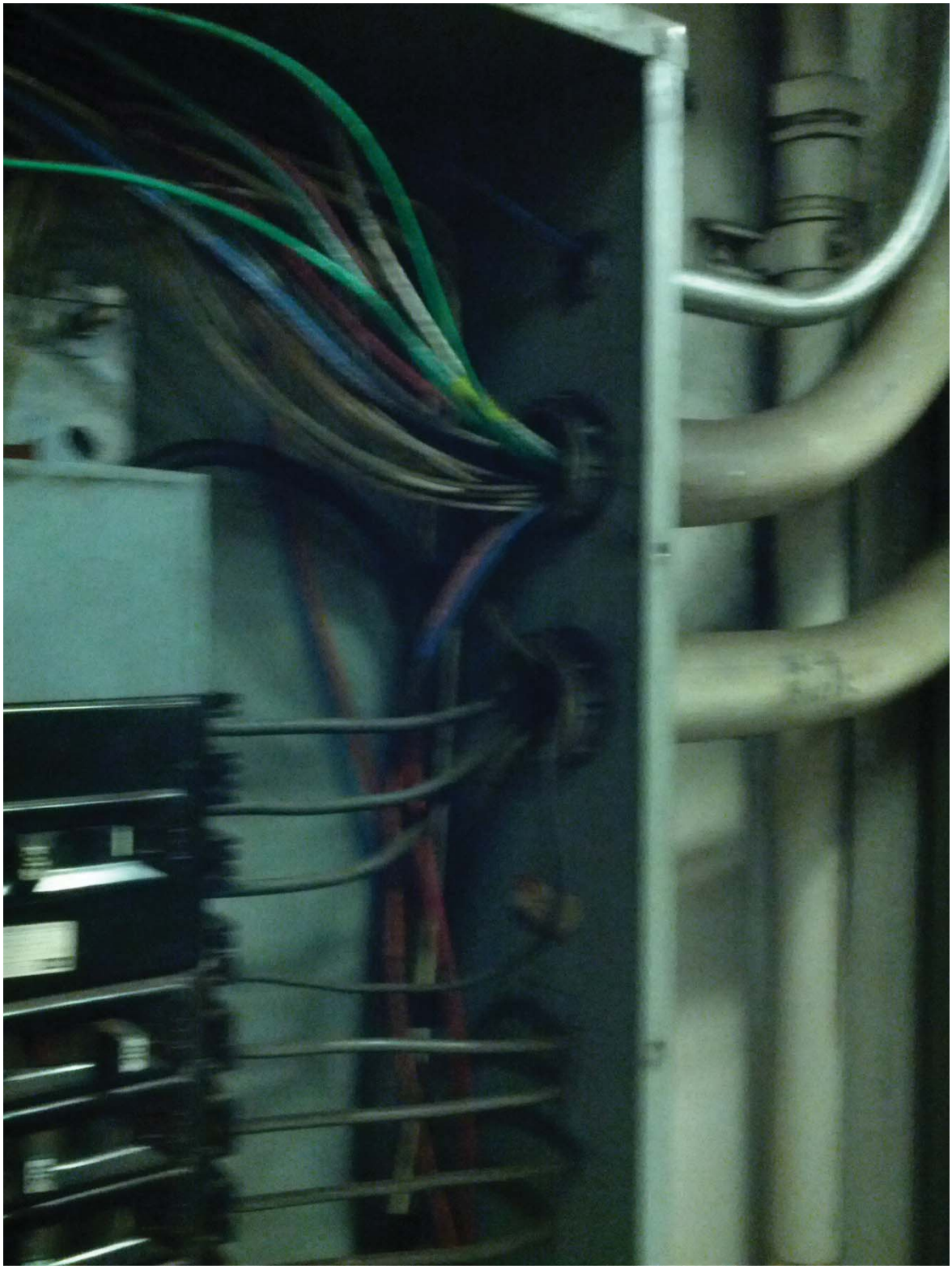
L’Enfant Plaza North Photo #2 – AFC Panel (NF) Panel Schedule



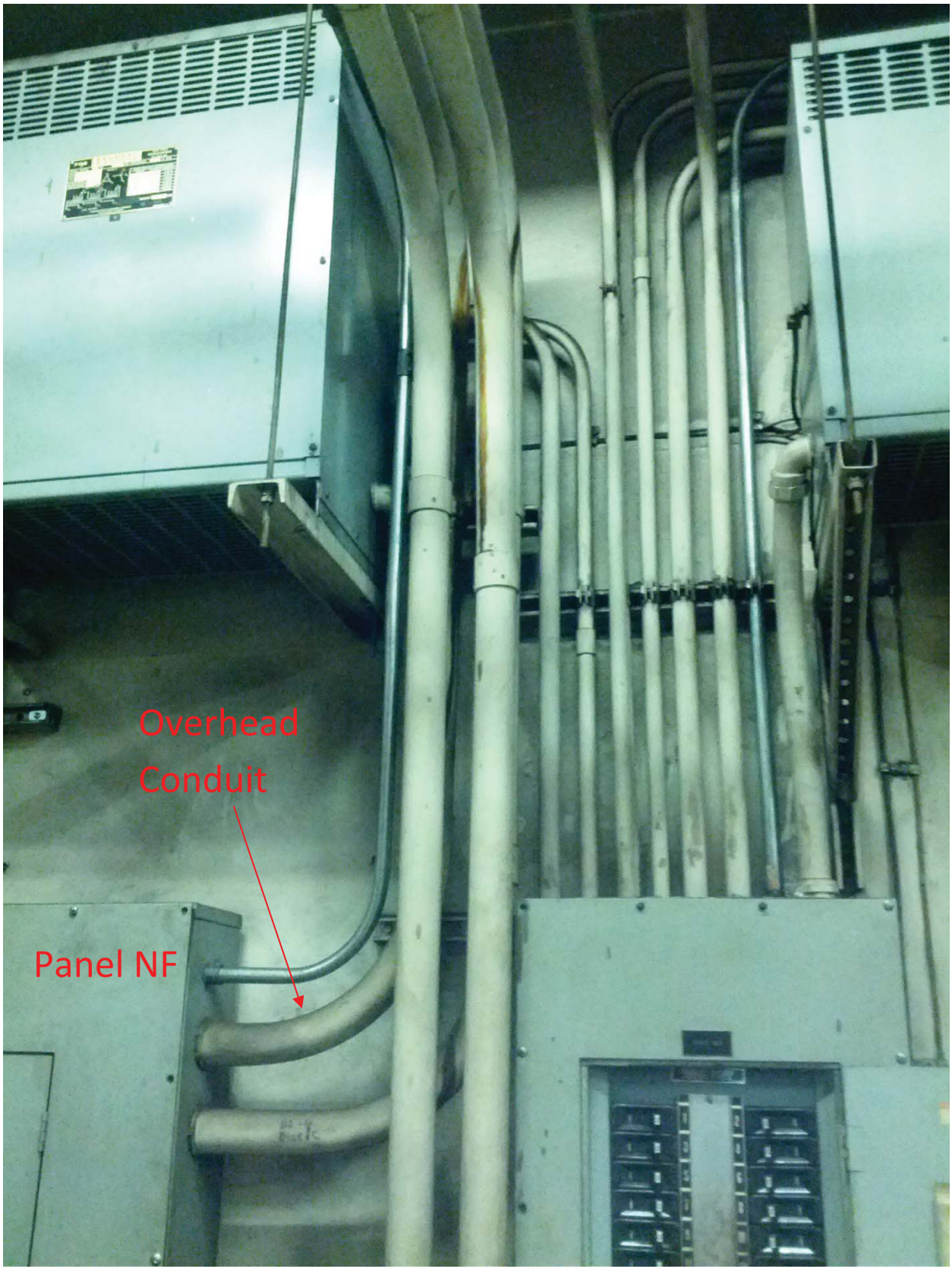
L’Enfant Plaza North Photo #3 – AFC Panel (NF) – Bottom Transformer Feed



L’Enfant Plaza North Photo #4 – Side Feed transitioning to Overhead Conduits which transition to Mezzanine Level

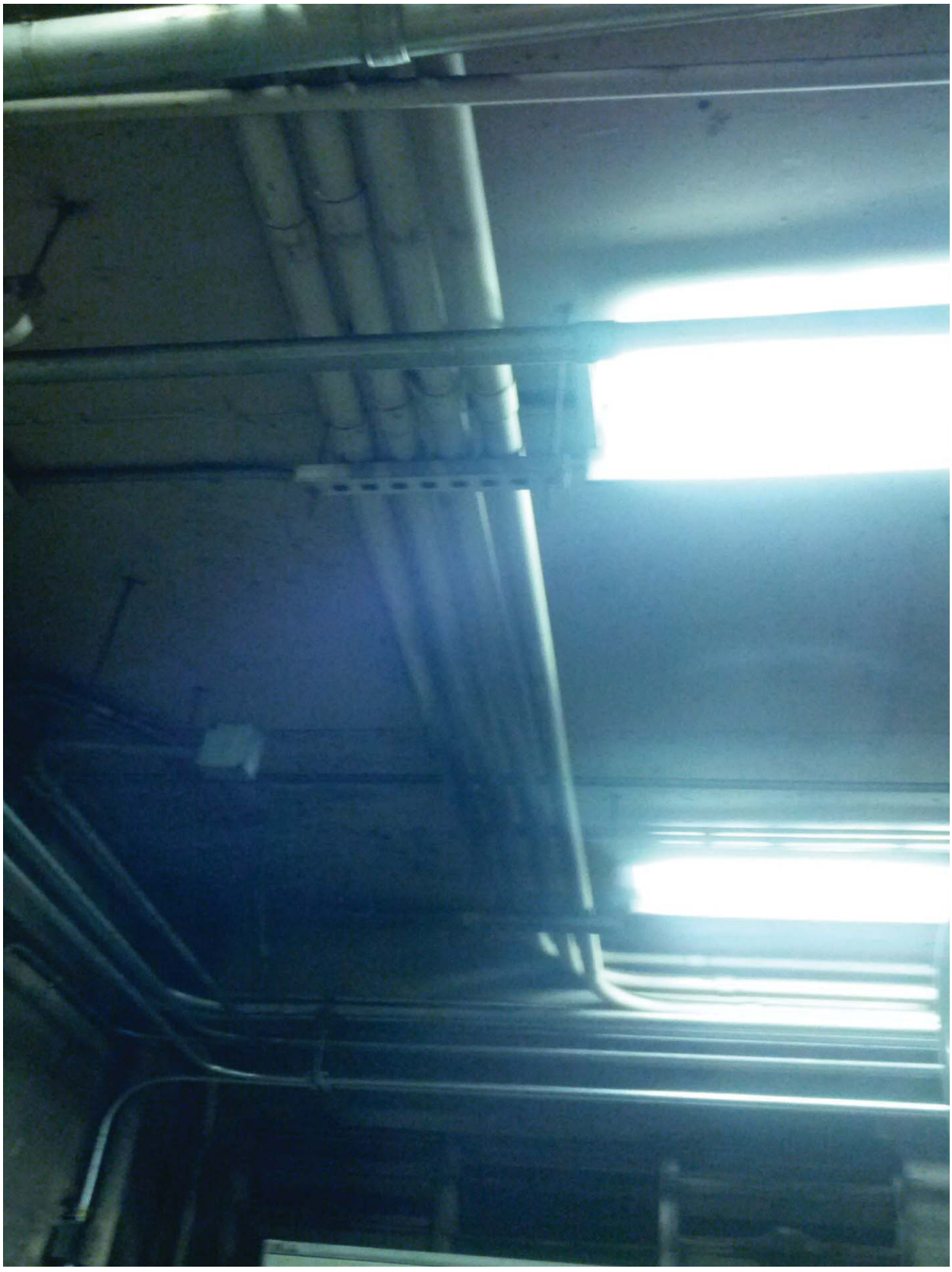


L’Enfant North Photo #5 – AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



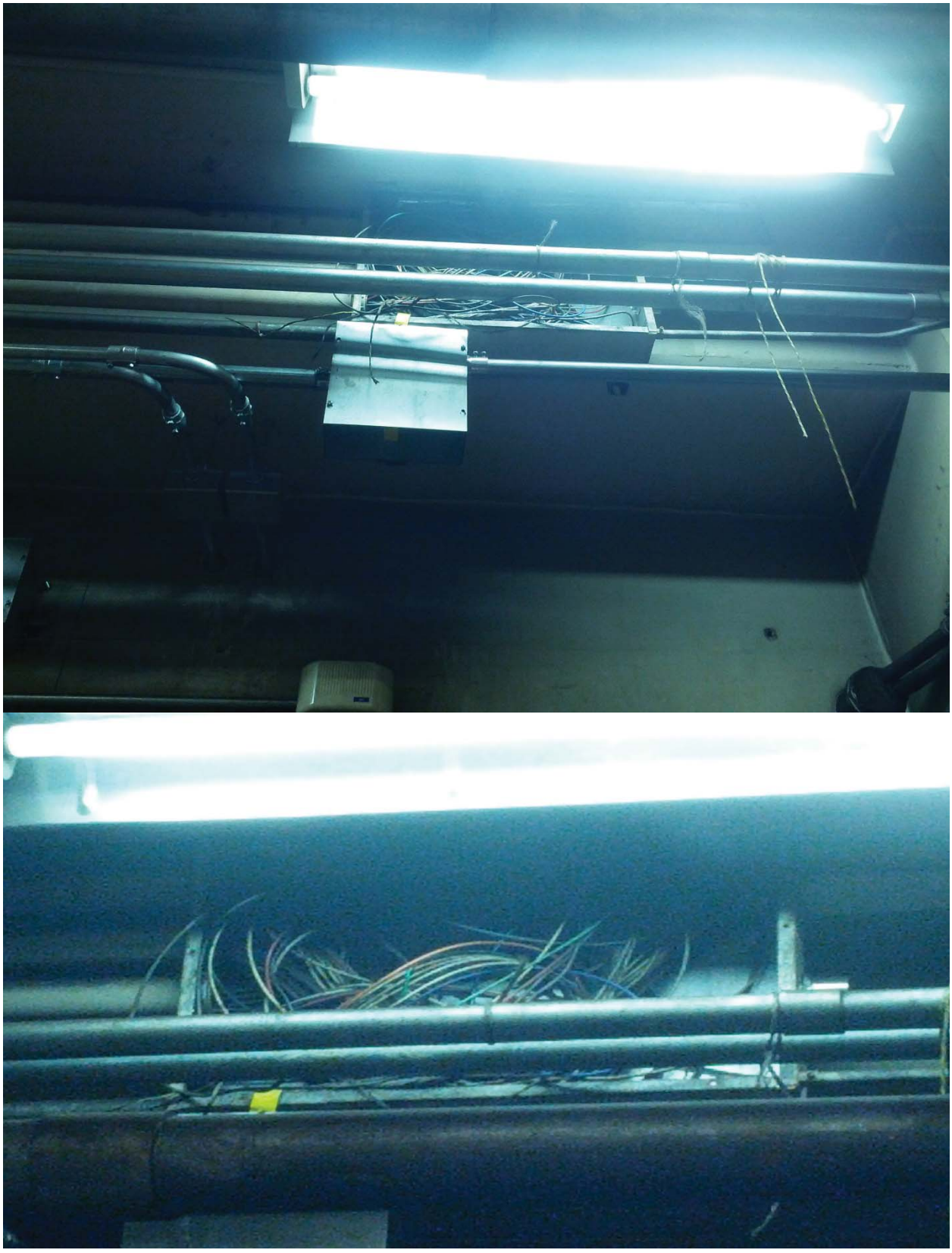
L’Enfant Plaza North Photo #6 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)

L’Enfant Plaza North Photo #7 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



L’Enfant Plaza North Photo #8 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)

L’Enfant Plaza North Photo #9 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)

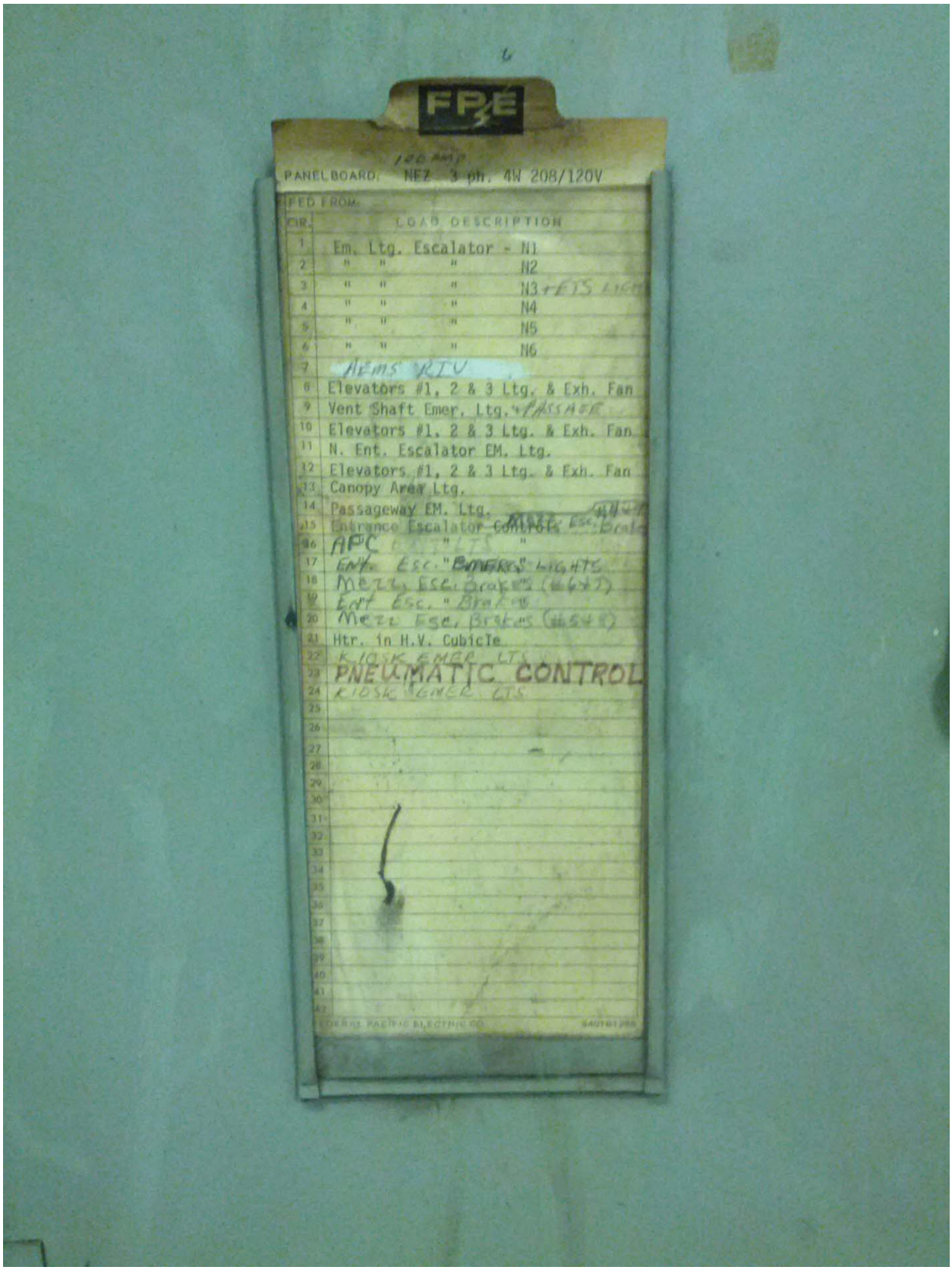


L’Enfant Plaza North Photo #10 – AFC Source Switchboard (NB) located in Room #N104 on Platform Level Track 2 Wayside. Source Breaker (Panel “NF”) Circuit #7 for AFC Panel (NF).

L’Enfant Plaza North Photo #11 – North ELES Remote Monitoring Status Relays – Panel Shares Junction Box (shared raceway) with AFC Panel (NF).

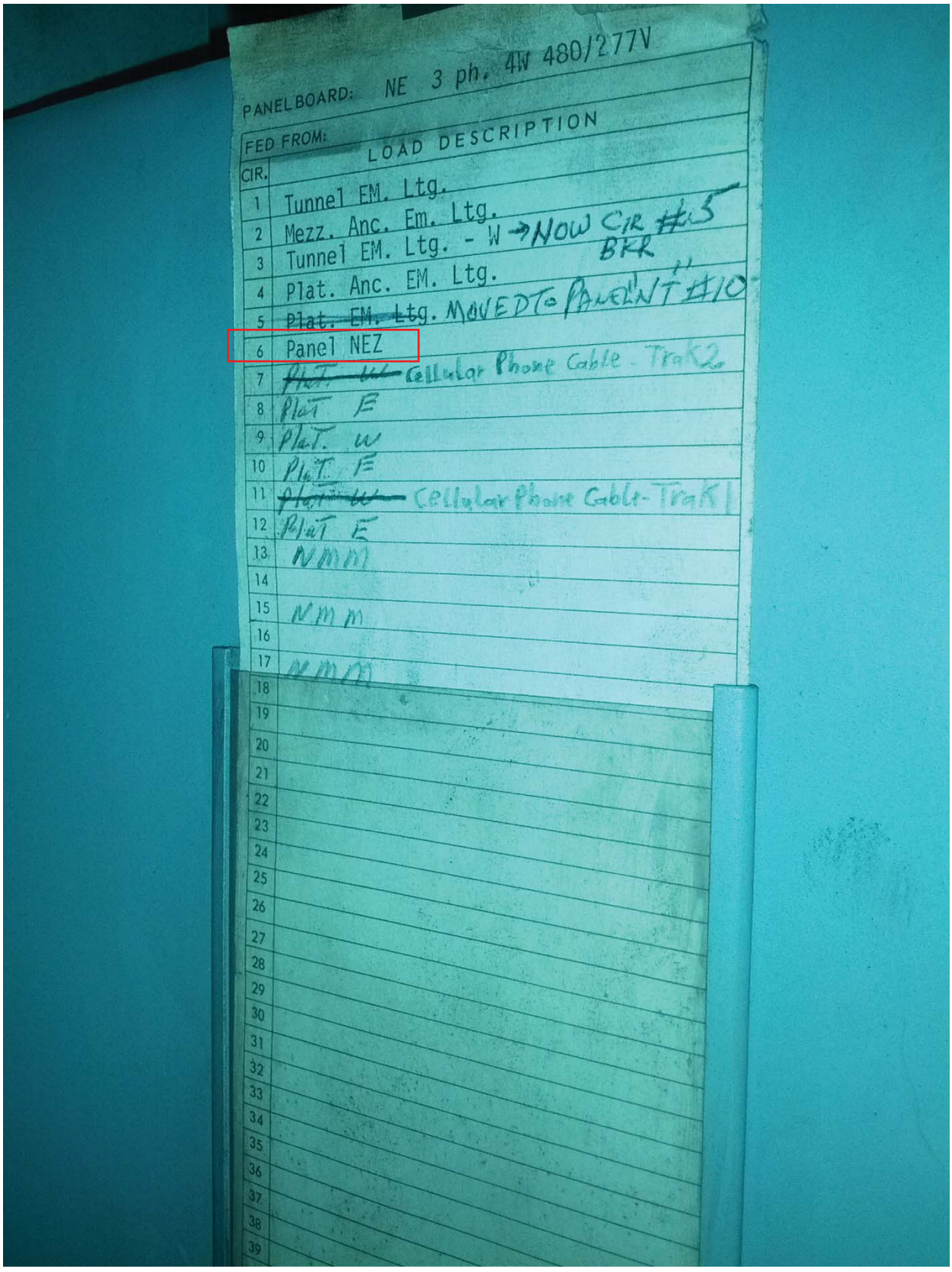
L’Enfant Plaza North Photo #12 – Panel NEZ Serves North ELES Remote Monitoring Status Relays Panel

L’Enfant Plaza North Photo #13 – Panel NEZ Panel Schedule



L’Enfant Plaza North Photo #14 – Panel NE - Circuit #6 is breaker for Panel NEZ

L’Enfant Plaza North Photo #15 – Panel NE Panel Schedule



PANEL BOARD: NE 3 ph. 4W 480/277V

FED FROM:

CIR.	LOAD DESCRIPTION
1	Tunnel EM. Ltg.
2	Mezz. Anc. Em. Ltg.
3	Tunnel EM. Ltg. - W → NOW CIR #15 BKR
4	Plat. Anc. EM. Ltg.
5	~~Plat. EM. Ltg.~~ MOVED TO PANEL NT #10
6	Panel NEZ
7	~~Plat. W~~ Cellular Phone Cable - Trak 2
8	Plat E
9	Plat. W
10	Plat. E
11	~~Plat W~~ Cellular Phone Cable - Trak 1
12	Plat E
13	NMM
14	
15	NMM
16	
17	NMM
18	
19	
20	
21	
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L’Enfant Plaza North Photo #16 – Handholes located on Mezzanine level about 60’ feet from Kiosk

L’Enfant Plaza North Photo #17 – Handholes located on Mezzanine level about 35’ feet from Kiosk

EXISTING PANEL "NF"

AMPERES: 400	VOLTS: 120/208			MOUNTING: SURFACE						
MAINS: 400A MLO	PHASE: 3			LOCATION AC SWBD ROOM N104						
RATING: 10K AIC	WIRE: 4			SECTION: 1 OF 1						
		CKT BKRS		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	3	30	1.5	EXISTING CONDSING UNIT
EXISTING VENDOR	0.8	20	1	3	- B -	4	-	-	1.5	
EXISTING VENDOR	0.8	20	1	5	- - C	6	-	-	1.5	
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	0.8	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	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	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
SPACE	0.0	-	-	23	- - C	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A - -	26	2	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	27	- B -	28	-	-	0.0	
~~NEW KIOSK RECEPT. (IT & NEPP)~~	~~0.8~~	~~20~~	~~1~~	~~29~~	~~- - C~~	30	1	20	0.0	SPARE
~~SPARE (KIOSK)~~	~~0.0~~	~~20~~	~~1~~	~~31~~	A - -	32	1	20	0.0	SPARE
SPARE	0.0	20	1	33	- B -	34	3	70	0.0	SPARE
EXISTING VENDOR	0.8	20	1	35	- - C	36	-	-	0.0	
SPARE	0.0	20	1	37	A - -	38	-	-	0.0	
SPARE	0.0	20	1	39	- B -	40	3	100	3.3	EXISTING LOAD CENTER "KES"
SPARE	0.0	20	1	41	- - C	42	-	-	2.5	
SPARE	0.0	20	1	43	A - -	44	-	-	2.5	

NOTES: 1. CONNECT NEW FEEDER TO EXISTING 20A, 1P SPARE CB
2. CB TO BE RESERVED FOR FUTURE AFC

1&2 1

~~1~~

~~1&2~~

Use Circuits #27 and #29

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	9.2 x 50%		4.6 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	9.0 x 100%		9.0 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	31.2 KVA	TOTAL DEMAND KVA	27.4 KVA
		TOTAL DEMAND AMPS	76.0 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	10.4 KVA		
PHASE B:	11.2 KVA		
PHASE C:	9.6 KVA		

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "NB" LOCATED IN AC SWBD. RM. N104, CIRCUIT #7–90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM–F–ED8).

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

EXISTING WIRING FED FROM TOLEFT SIDE OF PANEL BY:
- 1– 2" C. (WIRING FILL >20%).

EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
- 4– 1 1/2" C. (WIRING FILL >40%).
- 1– 3/4" C. (WIRING FILL >20%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NDO 08-14 DATE
DRAWN C. NDO 08-14 DATE
CHECKED B. IDLIB 08-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

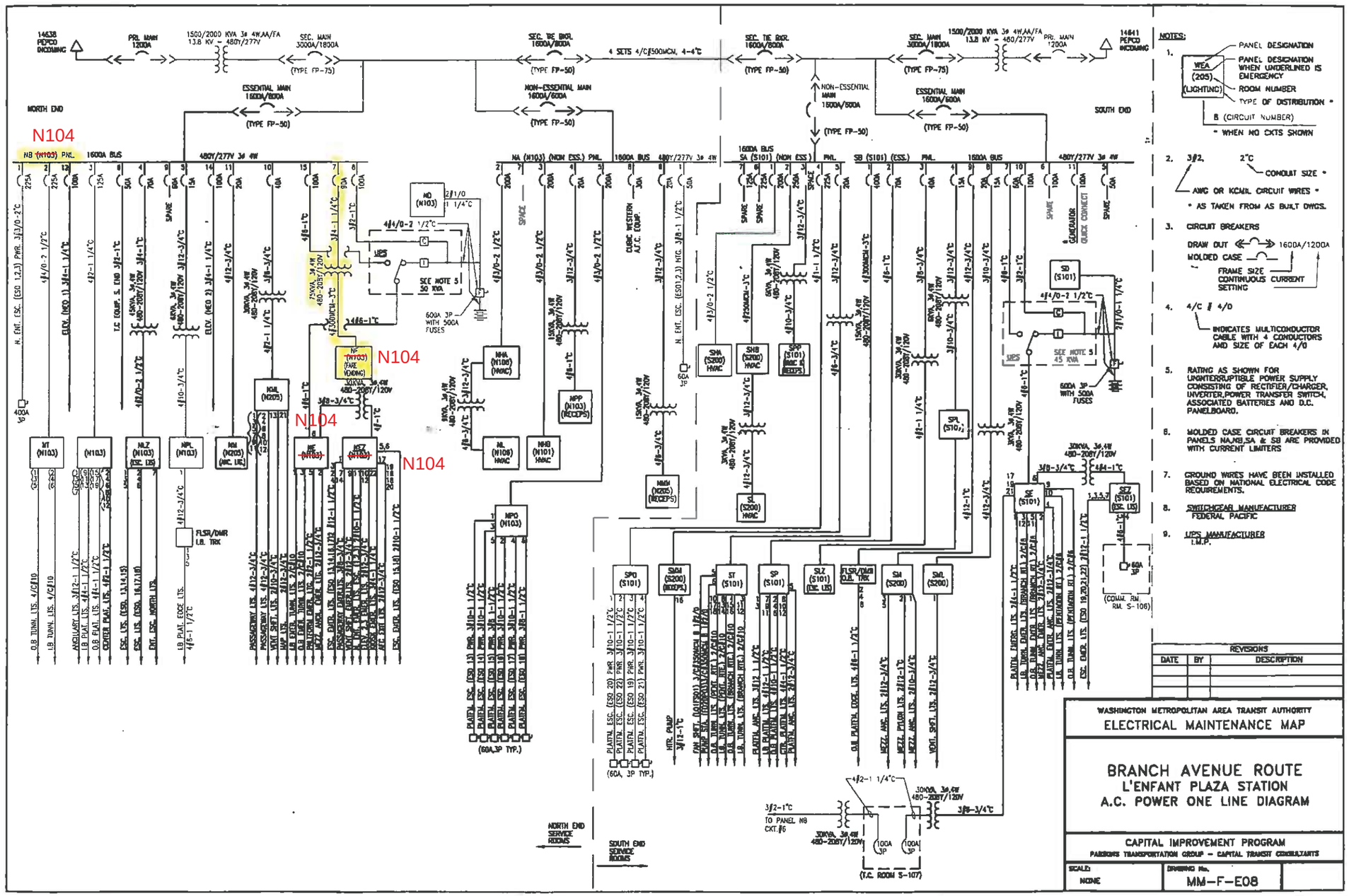
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
L'ENFANT PLAZA - NORTH
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO.: F03-E-102



O:\ELECT\NewMaintMap\F-Route\MM-F-E08.dwg Wed Jun 14 05:08:35 2000 R.M.

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014	**Station Name:** Waterfront - F04	**Mezzanine #:** 083	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: WAC Essential Source Breaker Name/Number: XFMR Breaker "Panel MESS-1" - (Circuit #6) Electrical AFC Panel Name/Number: MESS-1	Rm 203 Rm 203 Rm C206	
☑	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: N/A SMNT/POWR escorts: HIGH Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
☑	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☑ COMM / IT ☐ ELES ☐ RAIL ☐ CMNT ☐ Other Access/Support:		
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduits/ducts on the same level.

Emergency Power Verification

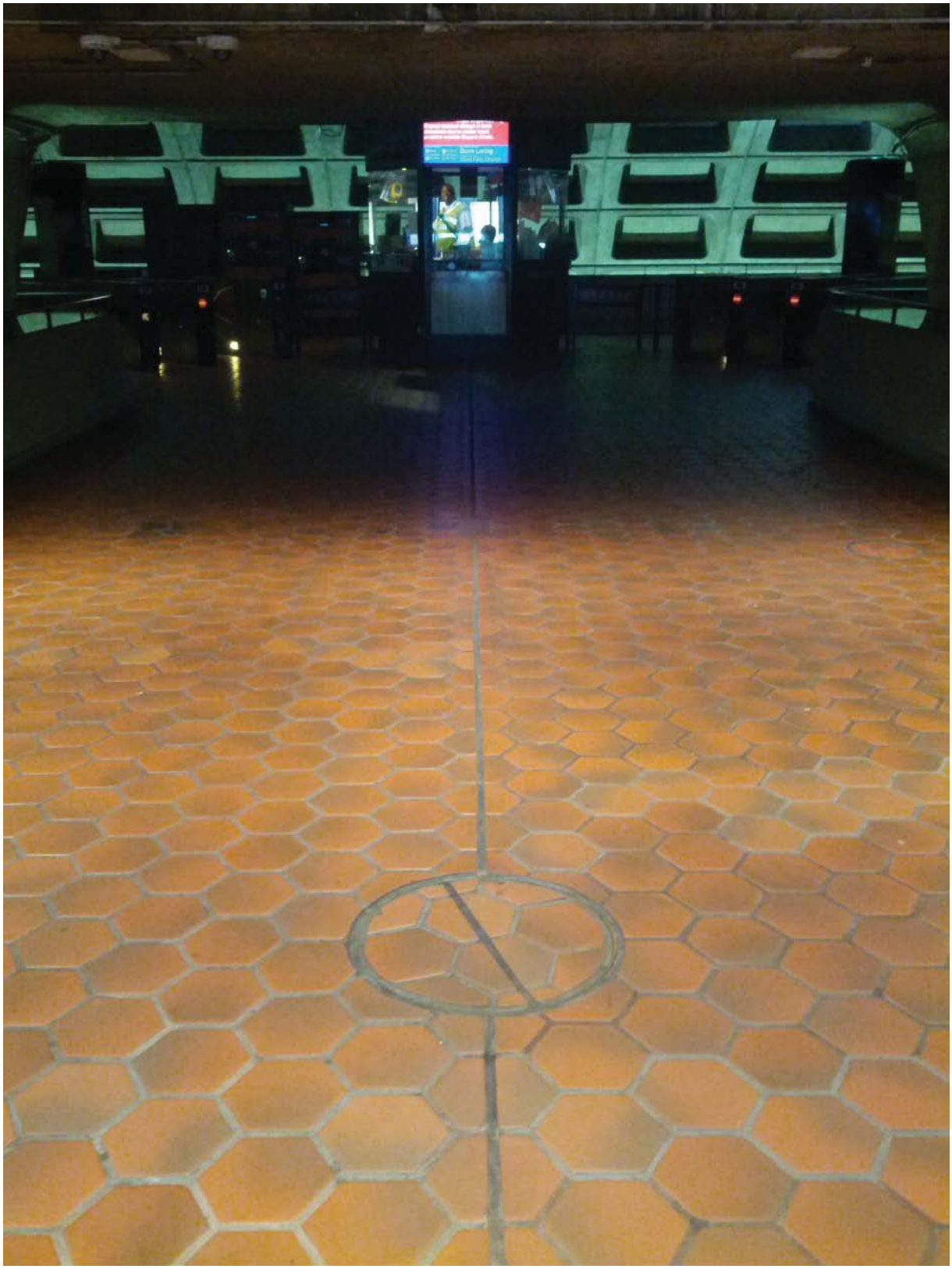
Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Panel MEE Source Breaker Name/Number: Circuit #6 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	

Notes and Discrepancies: Panel KE (breaker #4) in Kiosk de-energizes emergency power to faregates.

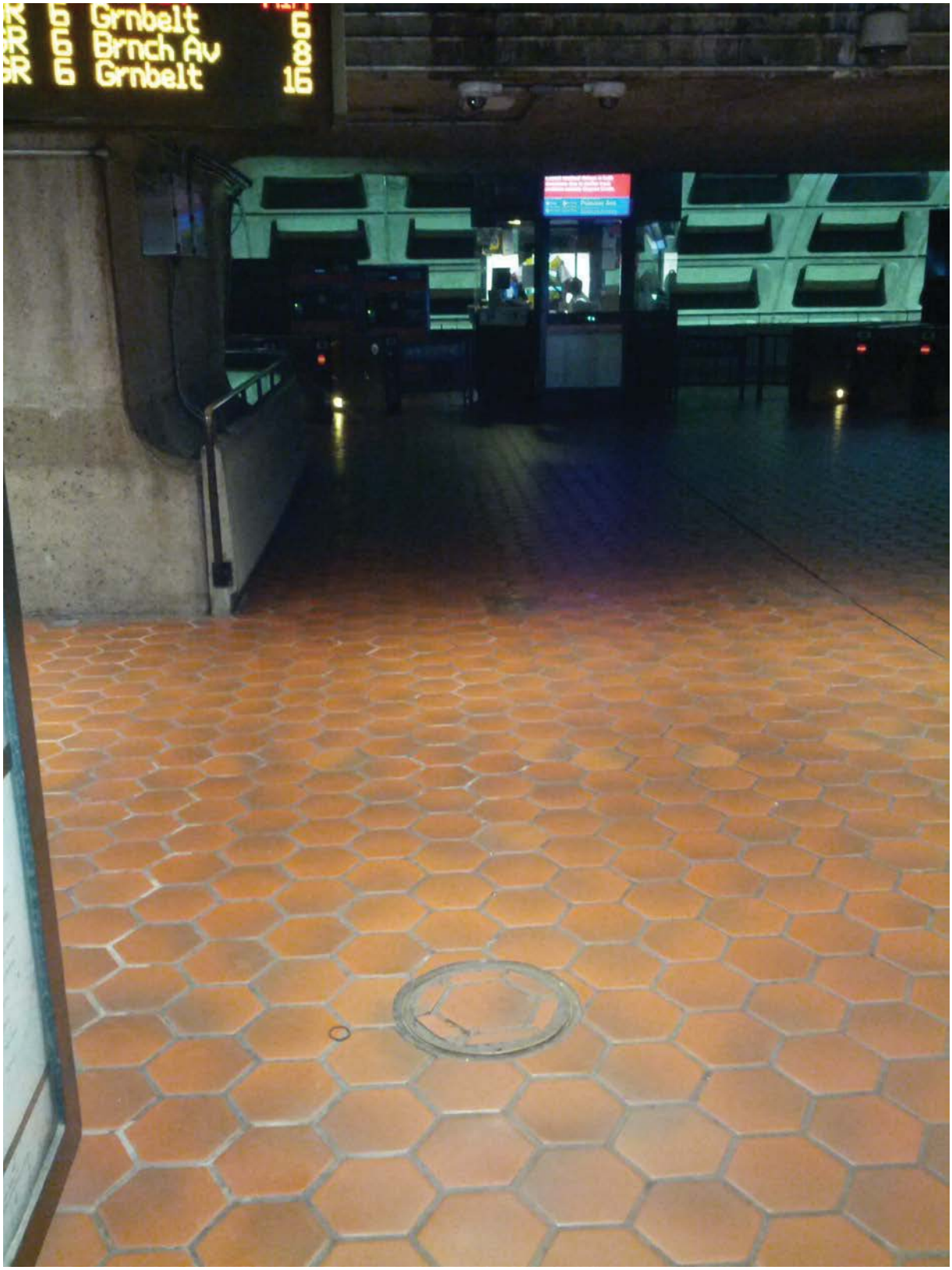
Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmeen Sahoo	
Date:	09/30/2014	

Picture 1: F04 Waterfront – Mezzanine manholes

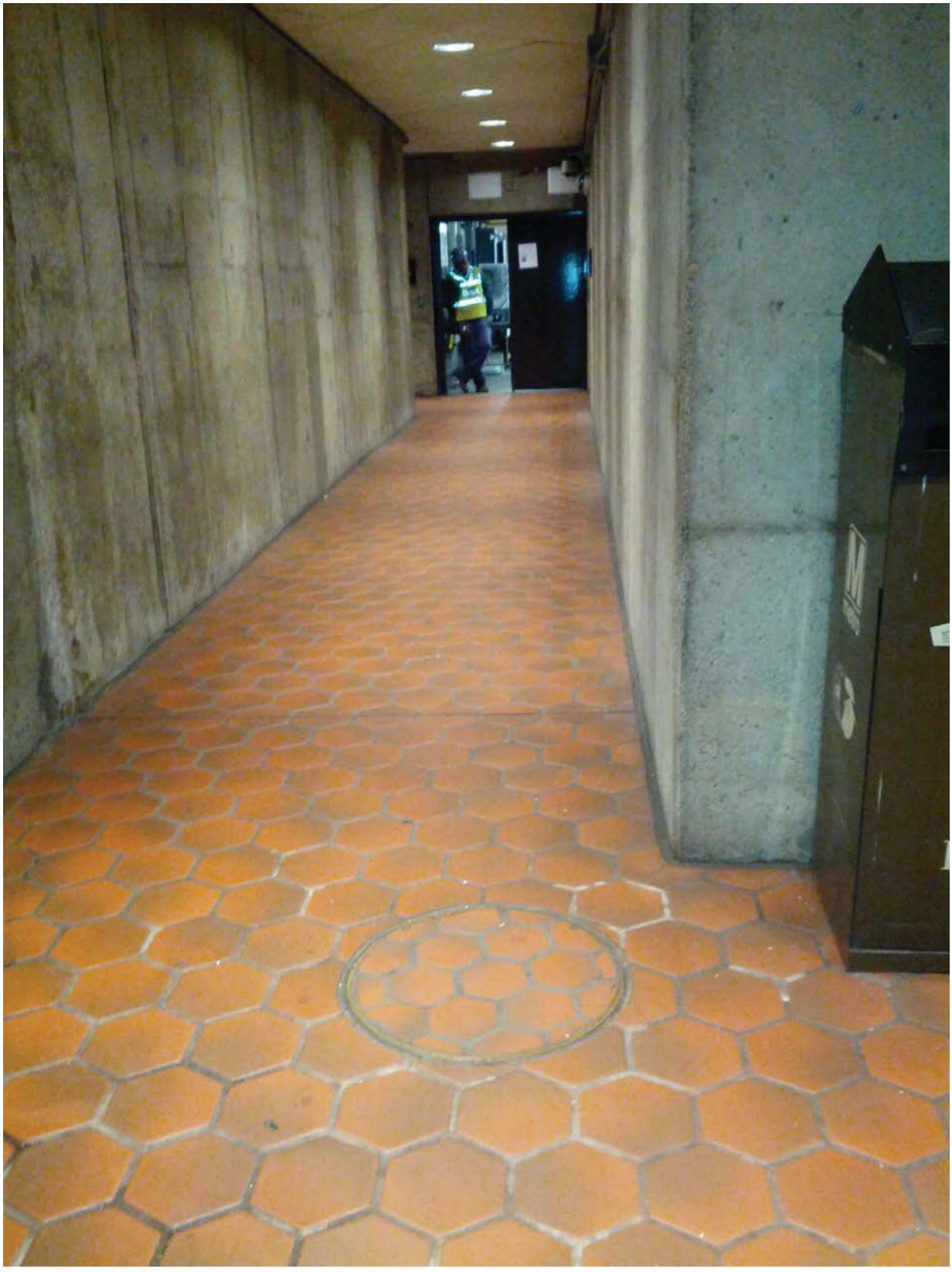
Picture 2: F04 Waterfront – Mezzanine manhole-1



Picture 3: F04 Waterfront – Mezzanine manhole-2



Picture 4: F04 Waterfront – Mezzanine manhole-3



Picture 5: F04 Waterfront – Room C206 manholes

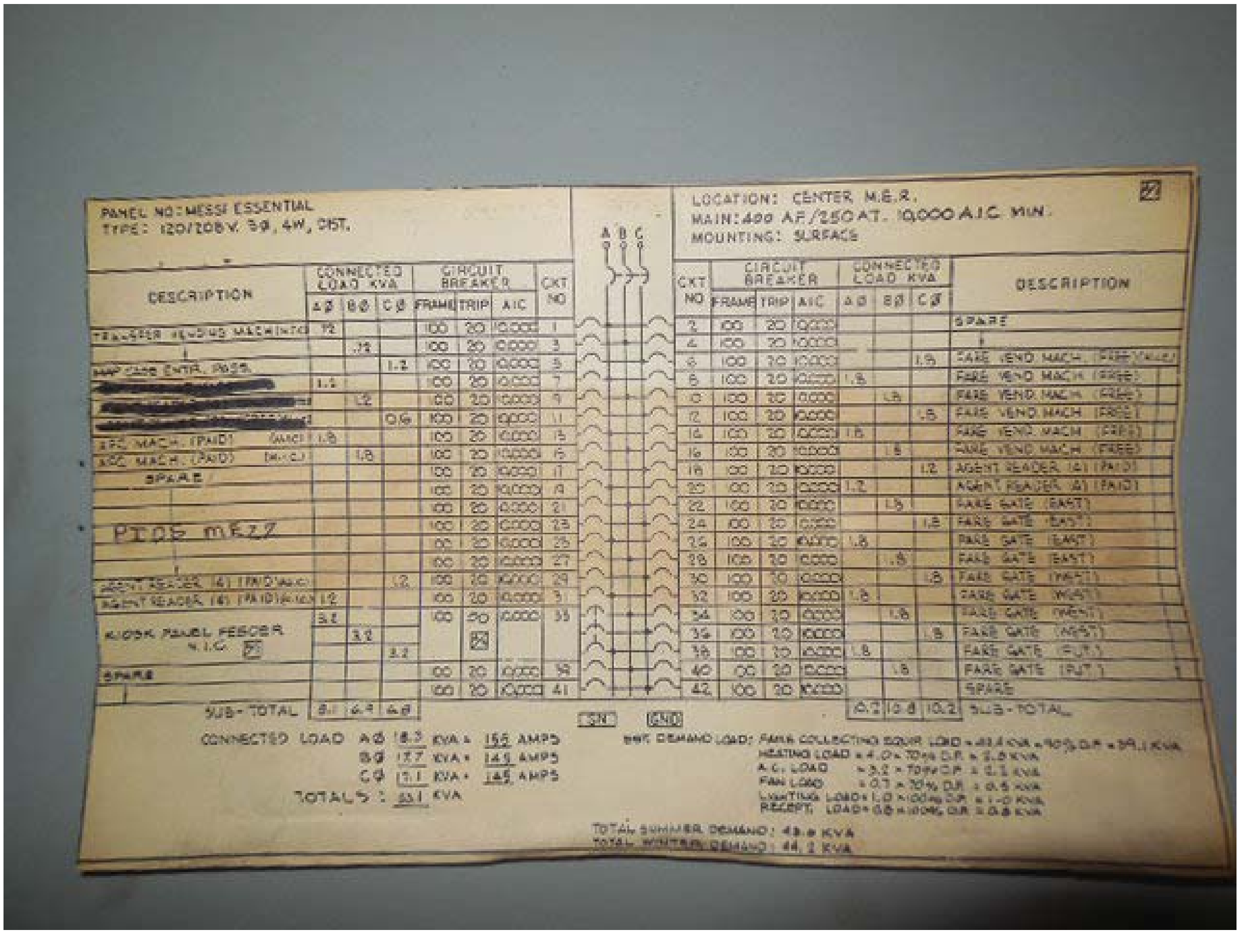
Picture 6: F04 Waterfront – Panel MESS-1 in Room C206

Picture 7: F04 Waterfront – Panel MESS-1 in Room C206

Picture 8: F04 Waterfront – Panel MESS-1 in Room C206

Picture 9: F04 Waterfront – Panel MESS-1 in Room C206

Picture 10: F04 Waterfront – Panel MESS-1 schedule in Room C206



Picture 11: F04 Waterfront – Panel MESS-1 shared trough in Room C206

Picture 12: F04 Waterfront – Panel MESS-1 shared trough in Room C206

Picture 13: F04 Waterfront – Panel MESS-1 shared trough in Room C206

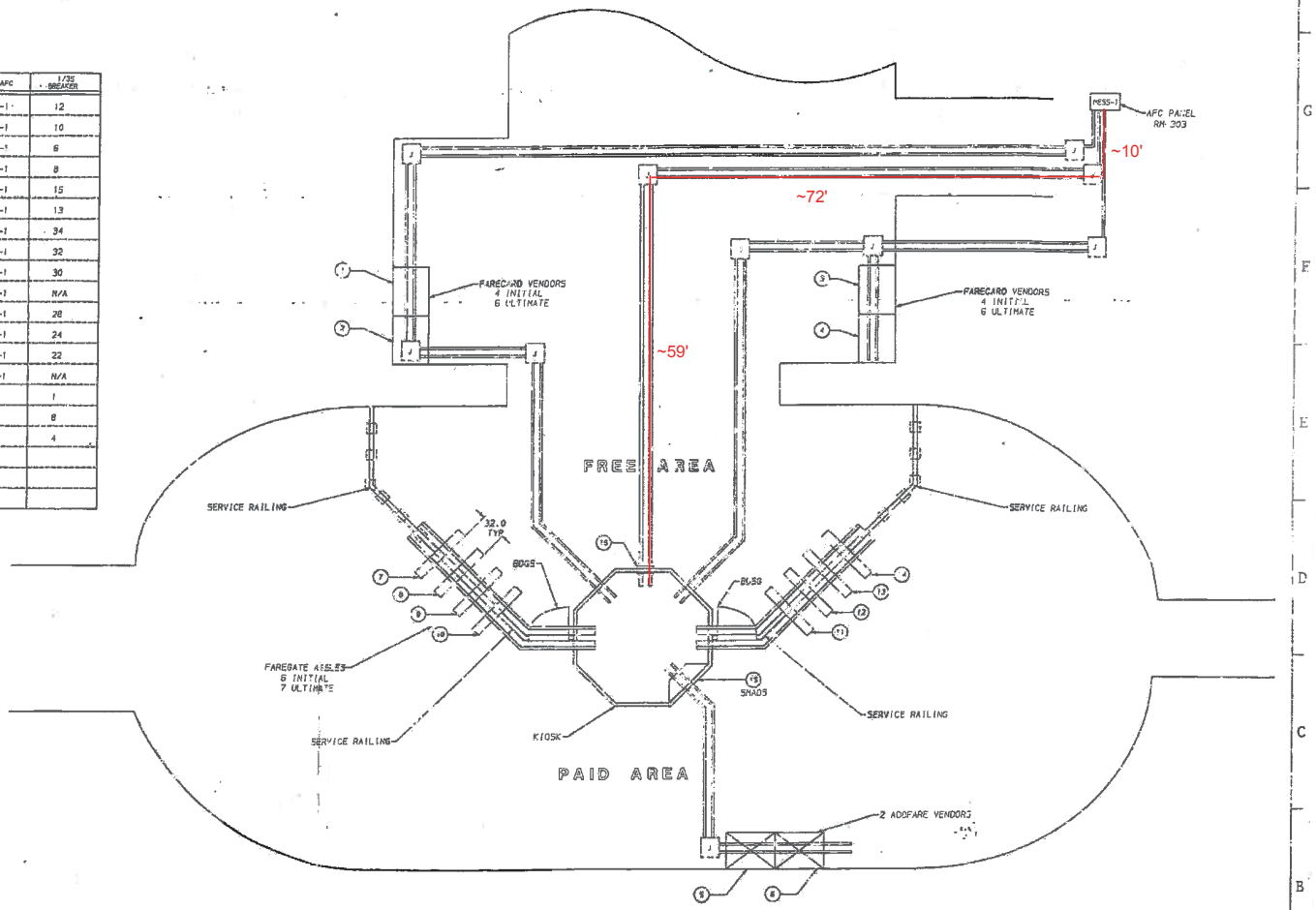
Picture 14: F04 Waterfront – WAC Essential Panel in Room 203

Picture 15: F04 Waterfront – WAC Essential Panel – XFMR Panel-MESS1 Circuit 6 in Room 203

Pre-Inspection Field Verification 9/30/2014

REVISIONS			
ZONE	REV	DESCRIPTION	DATE APPROVED
	A	INITIAL RELEASE	
	B	ECN 028901 BJC 03/20/92	

ITEM	NAME	S/N	PANEL AFC	1/3S BREAKER
1	VENDOR	1903	MESS-1	12
2	VENDOR	1904	MESS-1	10
3	VENDOR	1900	MESS-1	6
4	VENDOR	1890	MESS-1	8
5	ADDFARE	2818	MESS-1	15
6	ADDFARE	2936	MESS-1	13
7	ENTRY GATE	3827	MESS-1	34
8	REV. GATE	7901	MESS-1	32
9	REV. GATE	7900	MESS-1	30
10	EXIT GATE	4827	MESS-1	N/A
11	ENTRY GATE	3831	MESS-1	28
12	REV. GATE	7899	MESS-1	24
13	REV. GATE	7895	MESS-1	22
14	EXIT GATE	4828	MESS-1	N/A
15	SMADS	8817	KE	1
16	S. CLOCK	95721	KE	8
17	EMERGENCY LT		KE	4



NOTES:

1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSILLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL; 10 & 12; 6 & 8; 13 & 15; 30,32 & 34; 22,24 & 26.

MEZZANINE NO. 83

CUBIC

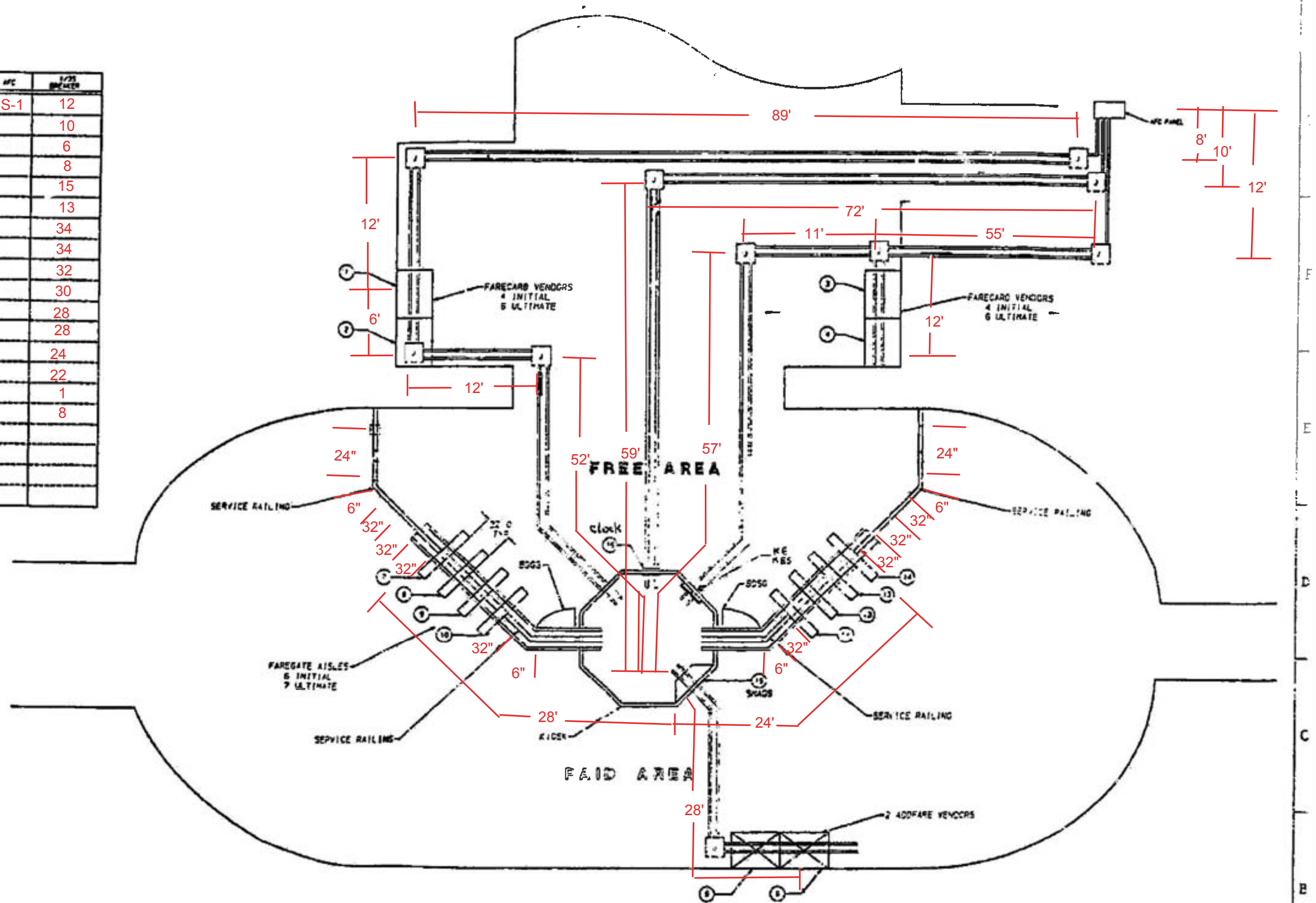
WATERFRONT STATION MEZZANINE LAYOUT

931-4019

Pre-Inspection Field Verification 9/30/2014

ITEM	NAME	S/N	PANEL AFC	BREAKER
1	VENDOR	FV1903	MESS-1	12
2	VENDOR	FV1904	"	10
3	VENDOR	FV1900	"	6
4	VENDOR	FV1890	"	8
5	ADDFARE	AF2818	"	15
6	ADDFARE	AF2836	"	13
7	ENTRY GATE	EG3827	"	34
8	REV. GATE	RG7901	"	34
9	REV. GATE	RG7900	"	32
10	EXIT GATE	XG4827	"	30
11	ENTRY GATE	EG3831	"	28
12	REV. GATE	RG7899	"	28
13	REV. GATE	RG7895	"	24
14	EXIT GATE	XG4828	"	22
15	SMADS	SM8817	KE	1
16	S. CLOCK		KE	8
	EMER LTS			

A | INITIAL RELEASE



CUBIC, WESTERN DATA

WATERFRONT STATION MEZZANINE LAYOUT

Pre-Inspection Field Verification 9/30/2014

EXISTING PANEL "MESS-1"

AMPERES: 250	VOLTS: 120/208	MOUNTING: SURFACE
MAINS: 250A MCB	PHASE: 3	LOCATION: MECH. EQUIPMENT ROOM C206
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1

LOAD DESCRIPTION	KVA	CKT BKRS AMP	CKT BKRS POLE	CKT NO.		CKT NO.	CKT BKRS POLE	CKT BKRS AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.9	20	1	1	A - -	2	1	20	0.6	NEW KIOSK RECEPT. (IT & NEPP) 1
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.0	SPARE (KIOSK) 1&2
EXISTING VENDOR	0.8	20	1	5	- - C	6	1	20	0.9	EXISTING VENDOR
EXISTING VENDOR	0.9	20	1	7	A - -	8	1	20	0.9	EXISTING VENDOR
SPARE	0.0	20	1	9	- B -	10	1	20	0.9	EXISTING VENDOR
EXISTING VENDOR	0.9	20	1	11	- - C	12	1	20	0.9	EXISTING VENDOR
EXISTING VENDOR	0.9	20	1	13	A - -	14	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.0	SPARE
SPARE	0.0	20	1	17	- - C	18	1	20	0.0	SPARE
SPARE	0.0	20	1	19	A - -	20	1	20	0.0	SPARE
SPARE	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.9	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	25	A - -	26	1	20	0.9	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	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.9	EXISTING VENDOR
SPARE	0.0	20	1	33	- B -	34	1	20	0.9	EXISTING VENDOR
EXIST. LOAD CENTER "WES"	2.9	30	3	35	- - C	36	1	20	0.6	EXISTING VENDOR
	2.5	-	-	37	A - -	38	-	-	0.0	SPACE
	2.5	-	-	39	- B -	40	-	-	0.0	SPACE
SPACE	0.0	-	-	41	- - C	42	-	-	0.0	SPACE

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	7.2 x 50%		3.6 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	24.7 KVA	TOTAL DEMAND KVA	21.9 KVA
		TOTAL DEMAND AMPS	60.7 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	8.1 KVA
PHASE B:	7.3 KVA
PHASE C:	9.3 KVA

AFC Panel MESS-1 (Rm C206) feed from WAC Essential (Rm 203)

XFMR Breaker "Panel MESS-1" - (Breaker 6)

NOTES: A. EXISTING PANEL "MESS-1" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "WES" LOCATED IN ~~AC SWBD. RM. 203, CIRCUIT #6 175A/3P~~ VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E10).

B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2-12"x 8'0" FLOOR DUCT W/2-4" C. (1-WIRING FILL >40% & 1-WIRING FILL >20%).

EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-2" C. (WIRING FILL >40%).
- 2-3/4" C. (WIRING FILL >40%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. HSO	05-14	DATE
DRAWN C. HSO	05-14	DATE
CHECKED S. KOLB	05-14	DATE
APPROVED N/A		DATE

REFERENCE DRAWINGS NUMBER	DESCRIPTION

REVISIONS DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

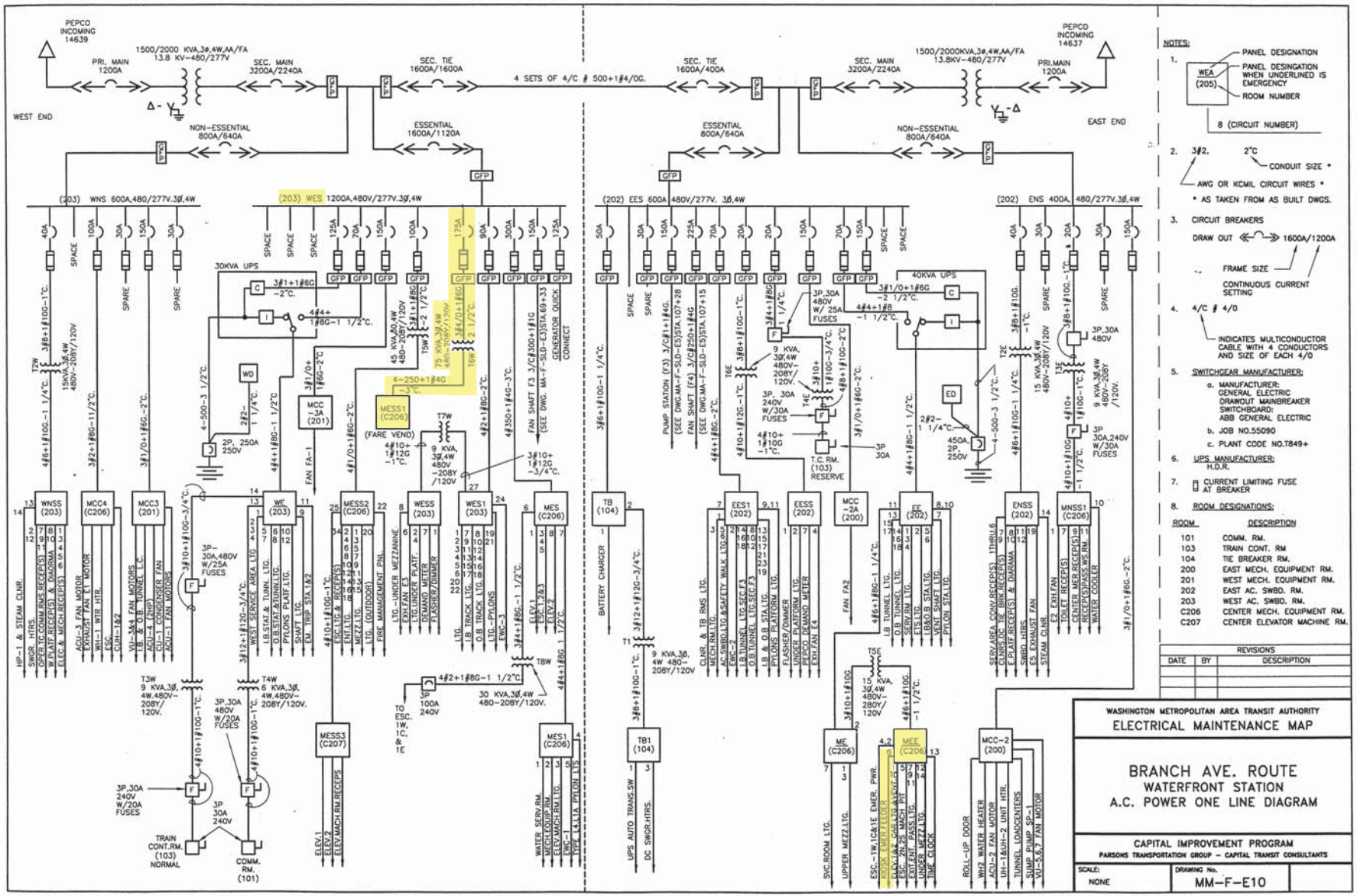
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
WATER FRONT
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO. F04-E-102



Pre-Inspection Field Verification 9/30/2014

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014	**Station Name:** F05 Navy Yard (West)	**Mezzanine #** 105	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: Essential SWBD Source Breaker Name/Number: Disconnect switch "DS-1" Electrical AFC Panel Name/Number: WMESS	215 401 401	
☑	Is there a disconnect switch connected to the AFC electrical power panel? Low or High voltage SMNT/POWR escorts required?	Disconnect Name/Number: DS-1 SMNT/POWR escorts: LOW Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to de-energize	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. YES (see notes)		Will be difficult to install pull string as run includes an overhead cable trough and multiple levels of conduit/raceway/walker duct
☑	Identify the assumed pathway of the duct, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☑ COMM / IT ☐ ELES ☐ RAIL ☐ CMNT ☐ Other Access/Support:		
☑	Identify handhole or manhole access requirement.	Required PLNT Support for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		

Emergency Power Verification

Check	Task	YES	NO	NA	Comments
☑	Verification of the electrical plan to the existing schematic if the AFC electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source	☐	☐	☑	

Notes and Discrepancies: Need latest AFC installation plan due to reconstruction of west mezzanine.

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	9/30/14	

Photo #1: F05 Navy Yard (West) – Panel Disconnect Switch DS-1

Photo #2: F05 Navy Yard (West) – Handholes at mezzanine level

Photo #3: F05 Navy Yard (West) – Conduit transition near the ceiling from panel WMESS in Room 401

Photo #4: F05 Navy Yard (West) – Conduit risers from Panel WMESS in Room 401

Photo #5: F05 Navy Yard (West) – Panel WMESS Label in Room 401

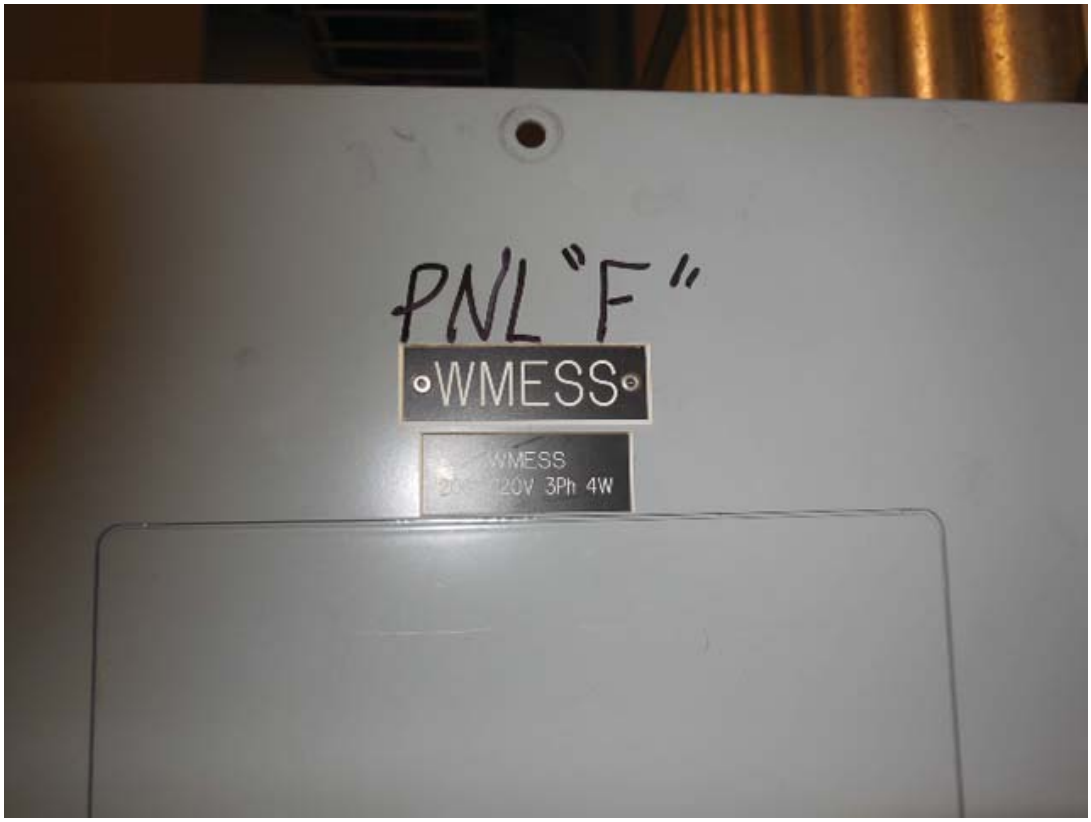
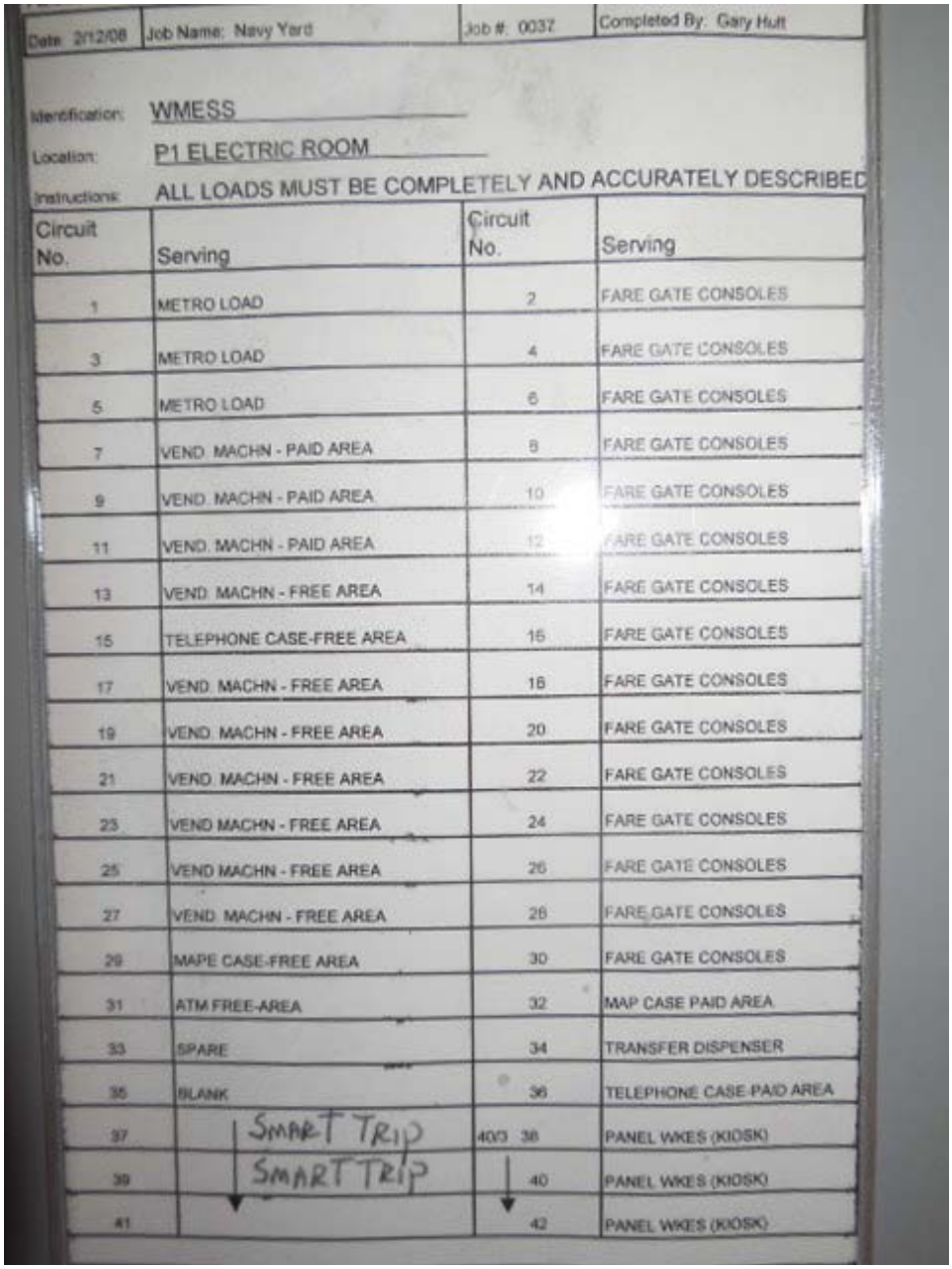


Photo #6: F05 Navy Yard (West) – Schedule of Panel WMESS in Room 401



Date: 2/12/08 | Job Name: Navy Yard | Job #: 0037 | Completed By: Gary Hutt

Identification: WMESS

Location: P1 ELECTRIC ROOM

Instructions: ALL LOADS MUST BE COMPLETELY AND ACCURATELY DESCRIBED

Circuit No.	Serving	Circuit No.	Serving
1	METRO LOAD	2	FARE GATE CONSOLES
3	METRO LOAD	4	FARE GATE CONSOLES
5	METRO LOAD	6	FARE GATE CONSOLES
7	VEND. MACHN - PAID AREA	8	FARE GATE CONSOLES
9	VEND. MACHN - PAID AREA	10	FARE GATE CONSOLES
11	VEND. MACHN - PAID AREA	12	FARE GATE CONSOLES
13	VEND. MACHN - FREE AREA	14	FARE GATE CONSOLES
15	TELEPHONE CASE-FREE AREA	16	FARE GATE CONSOLES
17	VEND. MACHN - FREE AREA	18	FARE GATE CONSOLES
19	VEND. MACHN - FREE AREA	20	FARE GATE CONSOLES
21	VEND. MACHN - FREE AREA	22	FARE GATE CONSOLES
23	VEND MACHN - FREE AREA	24	FARE GATE CONSOLES
25	VEND MACHN - FREE AREA	26	FARE GATE CONSOLES
27	VEND. MACHN - FREE AREA	28	FARE GATE CONSOLES
29	MAPE CASE-FREE AREA	30	FARE GATE CONSOLES
31	ATM FREE-AREA	32	MAP CASE PAID AREA
33	SPARE	34	TRANSFER DISPENSER
35	BLANK	36	TELEPHONE CASE PAID AREA
37	SMART TRIP	40/3 38	PANEL WKES (KIOSK)
39	SMART TRIP	40	PANEL WKES (KIOSK)
41		42	PANEL WKES (KIOSK)

NOTES:

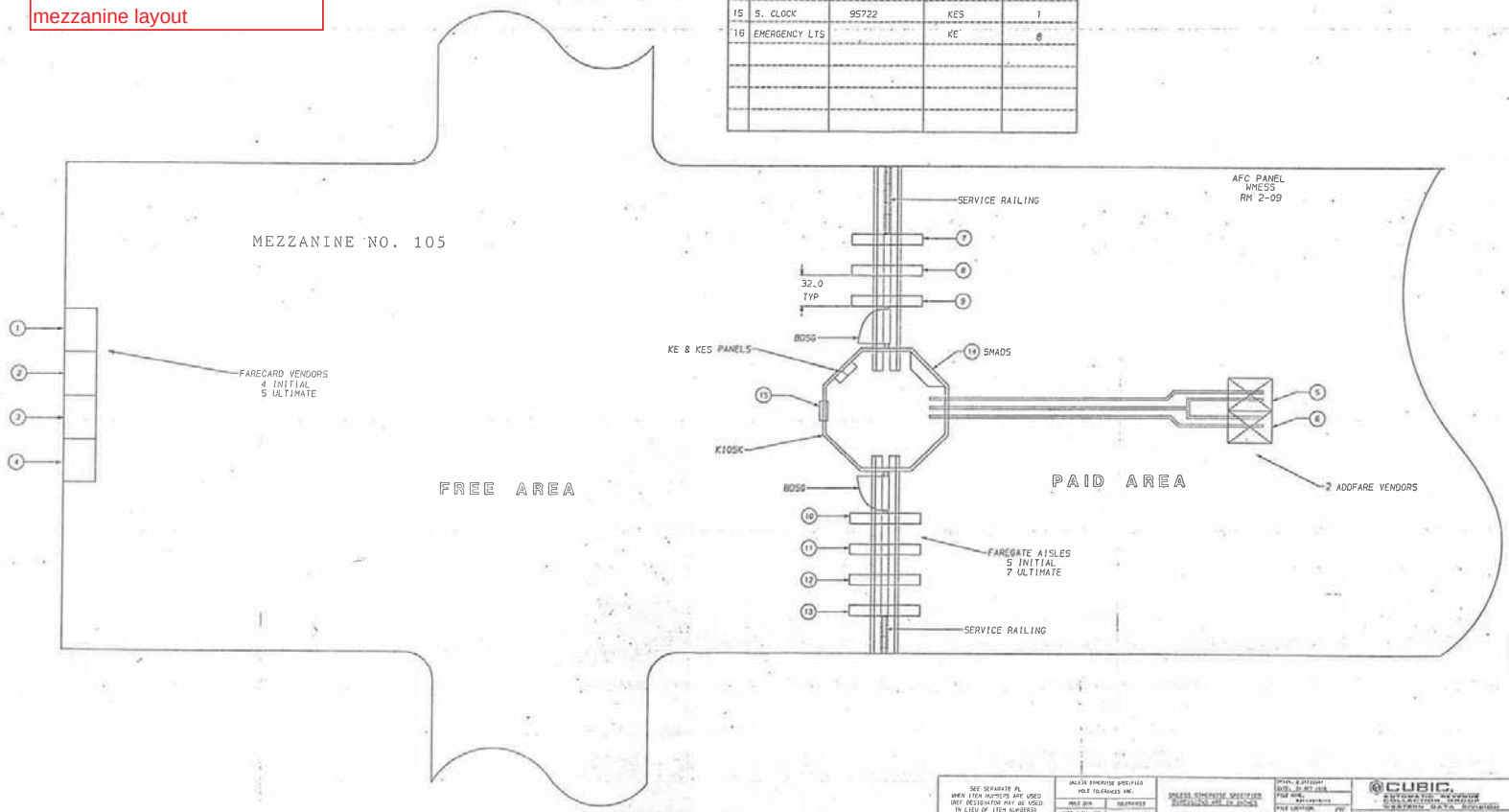
1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON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

REV	DESCRIPTION	DATE APPROVED
A	INITIAL RELEASE	10/9/14

Pre-inspection Field Verification
9/30/2014

ITEM	NAME	S/N	PANEL AFC	1/3S BREAKER
1	VENDOR	1889	WMESS	2
2	VENDOR	1902	WMESS	4
3	VENDOR	1887	WMESS	6
4	VENDOR	1901	WMESS	8
5	ADDFARE	2835	WMESS	12
6	ADDFARE	2837	WMESS	10
7	EXIT GATE	4826	WMESS	N/A
8	REV. GATE	7887	WMESS	3
9	ENTRY GATE	3825	WMESS	1
10	EXIT GATE	4825	WMESS	N/A
11	REV. GATE	7899	WMESS	7
12	REV. GATE	7896	WMESS	9
13	ENTRY GATE	3828	WMESS	11
14	SMADS	8806	KE	4
15	S. CLOCK	95722	KES	1
16	EMERGENCY LTS		KE	8

Mezzanine layout is obsolete; need new street-level mezzanine layout



SEE SEPARATE PL WHEN ITEM NUMBERS ARE USED (REF DESIGNATOR MAY BE USED IN LIEU OF ITEM NUMBERS)

UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:

NEXT ASSY: XXX-XXXX/X-X

DO NOT SCALE DRAWING

CUBIC

W. NAVY YARD STATION
MEZZANINE LAYOUT

SIZE D | CAGE CODE 97280 | DWG NO 931-4019 | REV A

SCALE 1/40 | SHEET 1 OF 1

Pre-inspection Field Verification
9/30/2014

EXISTING PANEL "EMESS" (East)

AMPERES: 150	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 150AMCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT RM. 204	
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1	

LOAD DESCRIPTION	KVA	CKT BKRS AMP	CKT BKRS POLE	CKT NO		CKT. NO.	CKT BKRS POLE	CKT BKRS 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 - -	8	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	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	
SPARE	0.0	20	1	17	- - C	18	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	1
SPARE	0.0	20	1	19	A - -	20	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	1
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.0	SPARE (KIOSK)	1&2
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.0	SPARE (KIOSK)	1&2
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.0	SPARE	
EXISTING 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	
SPARE	0.0	20	1	31	A - -	32	1	20	0.0	SPARE	
SPARE	0.0	20	1	33	- B -	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	30	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

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	8.8 x 50%		4.4 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	26.3 KVA	TOTAL DEMAND KVA	22.7 KVA
		TOTAL DEMAND AMPS	62.9 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.3 KVA		
PHASE B:	8.9 KVA		
PHASE C:	8.1 KVA		

NOTES: A. EXISTING PANEL "EMESS" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "ESSENTIAL POWER SWBD" LOCATED IN AC SWBD. RM. C216, CIRCUIT #12-250A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E12).

B. EXISTING WIRING FED FROM BOTTOM PANEL BY:
* 2-6 1/2"x 1 1/2" FLOOR DUCTS (>40% FILL W/WIRING).
EXISTING WIRING FED FROM TOP PANEL BY:
* 5-3/4" C. (>40% FILL W/WIRING).
EXISTING WIRING FED FROM RIGHT SIDE PANEL BY:
* 1-4" C. TO TRANSFORMER (>40% FILL W/WIRING).

EXISTING PANEL "WMESS" (West)

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 225AMCB	PHASE: 3	LOCATION: ELEC ROOM 401	
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1	

LOAD DESCRIPTION	KVA	CKT BKRS AMP	CKT BKRS POLE	CKT NO		CKT. NO.	CKT BKRS POLE	CKT BKRS 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 - -	8	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	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	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	1
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.0	SPARE (KIOSK)	1&2
EXISTING VENDOR	0.8	20	1	27	- B -	28	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR	
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	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	35	- - C	36	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	37	A - -	38	3	40	2.9	EXIST. LOAD CENTER "KES"	
EXISTING VENDOR	0.8	20	1	39	- B -	40	-	-	2.5		
SPACE	0.0	-	-	41	- - C	42	-	-	2.5		

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

ATM is #31 in WMESS

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	19.2 x 50%		9.6 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	38.7 KVA	TOTAL DEMAND KVA	27.9 KVA
		TOTAL DEMAND AMPS	77.4 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	12.5 KVA		
PHASE B:	12.9 KVA		
PHASE C:	11.3 KVA		

NOTES: A. EXISTING PANEL "WMESS" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "ESSENTIAL SWBD" LOCATED IN AC SWBD. ROOM 215, CIRCUIT #2-250A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E12).

B. EXISTING WIRING FED FROM BOTTOM PANEL BY:
* 1-4" C. TO TRANSFORMER (>40% FILL W/WIRING).
EXISTING WIRING FED FROM TOP PANEL BY:
* 5-1 1/2" C. (>30% FILL W/WIRING).

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED C. NDD 09-14 DATE
DRAWN C. NDD 09-14 DATE
CHECKED S. IDLIB 09-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

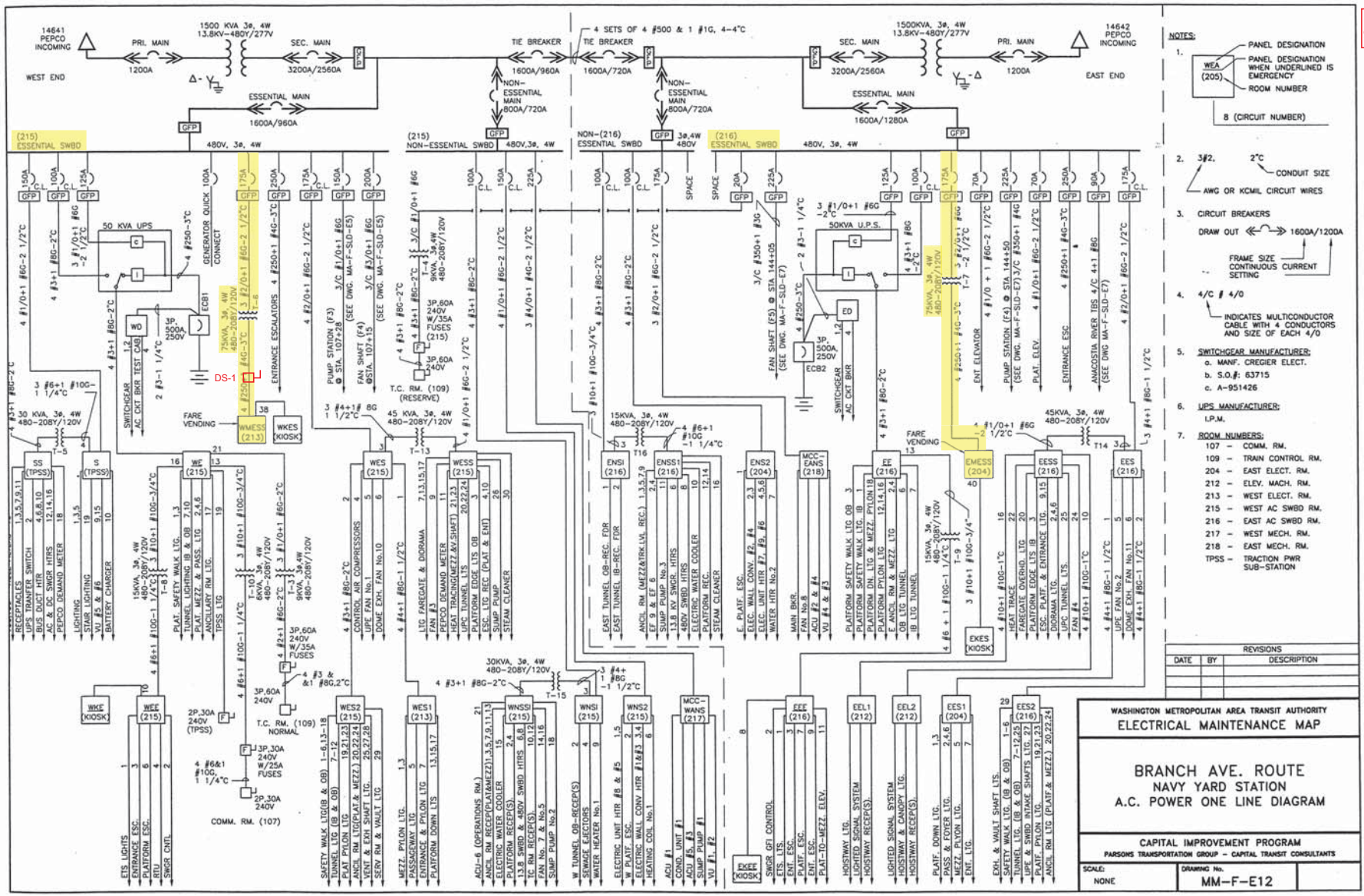
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
NAVY YARD EAST & WEST
PANEL SCHEDULES

SCALE: NOT TO SCALE

DRAWING NO: F05-E-102



Pre-inspection Field Verification
9/30/2014

O:\ELECT\NewMaintMap\F-Route\MM-F-E12.dwg Tue Jun 06 14:10:09 2000 LP

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	**Station Name:** Anacostia (North) - F06	**Mezzanine #:** 085	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: NSM Source Breaker Name/Number: Breaker #1 Electrical AFC Panel Name/Number: NSF	Rm 301 Rm 301 Rm 301	
☑	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: SMNT/POWR escorts: HIGH and LOW Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
☑	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☐ COMM / IT ☐ ELES ☐ RAIL ☐ CMNT ☐ Other Access/Support:		No handholes found at mezzanine between AFC panel and Kiosk.
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? NO Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level. Straight shot of about 70' from AFC panel to Kiosk.

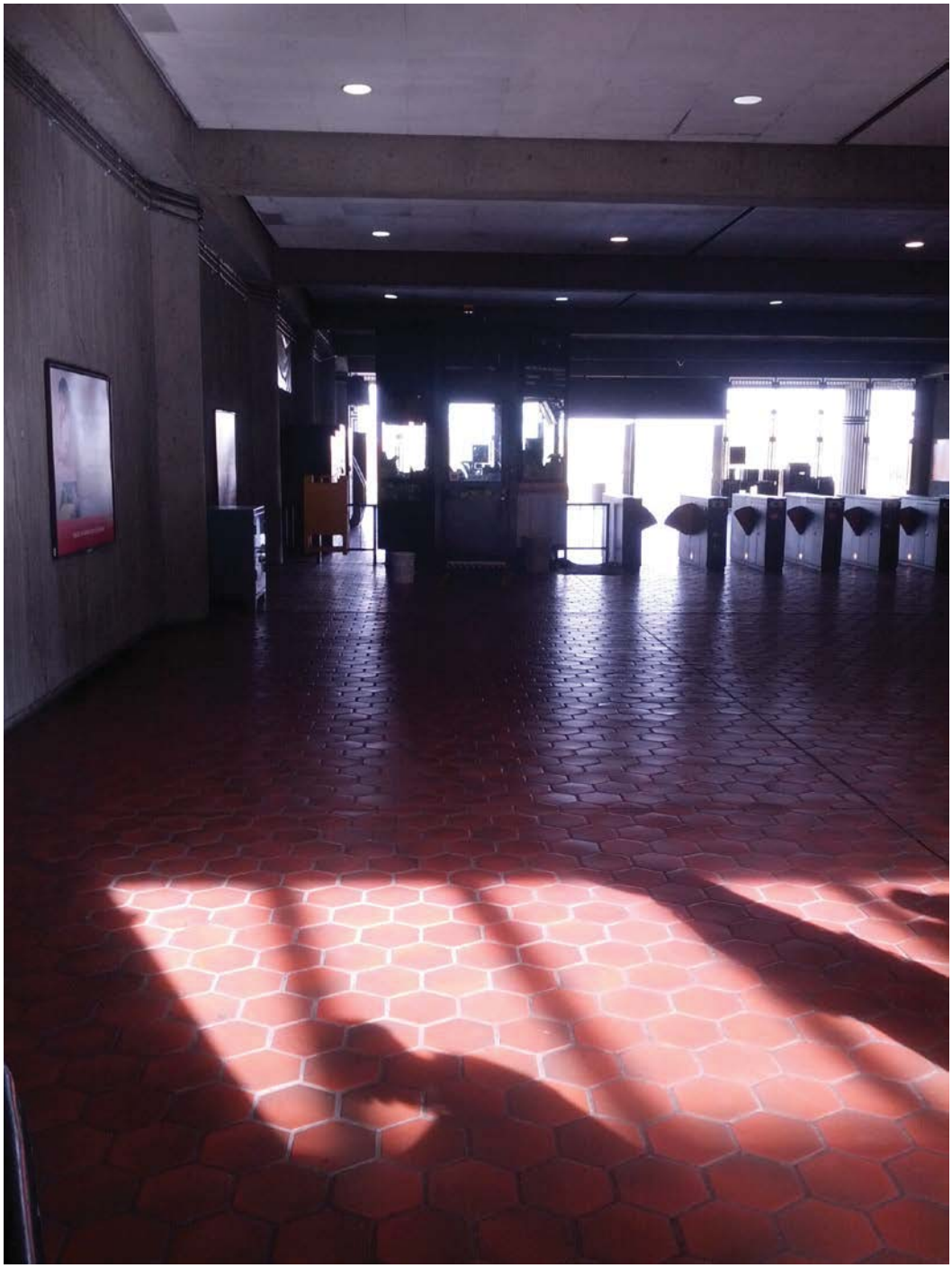
Emergency Power Verification

Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: NSE Emergency Source Breaker Name/Number: Breaker #2 Panel Name/Number: Kiosk Panel	Rm 301 Rm 301 Kiosk	Panel KE located in Kiosk, Breaker #4 will de-energize emergency power to faregates.

Notes and Discrepancies:

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmina Sahoo	
Date:	10/28/2014	

Picture 1: F06 Anacostia (North) – No handholes in mezzanine

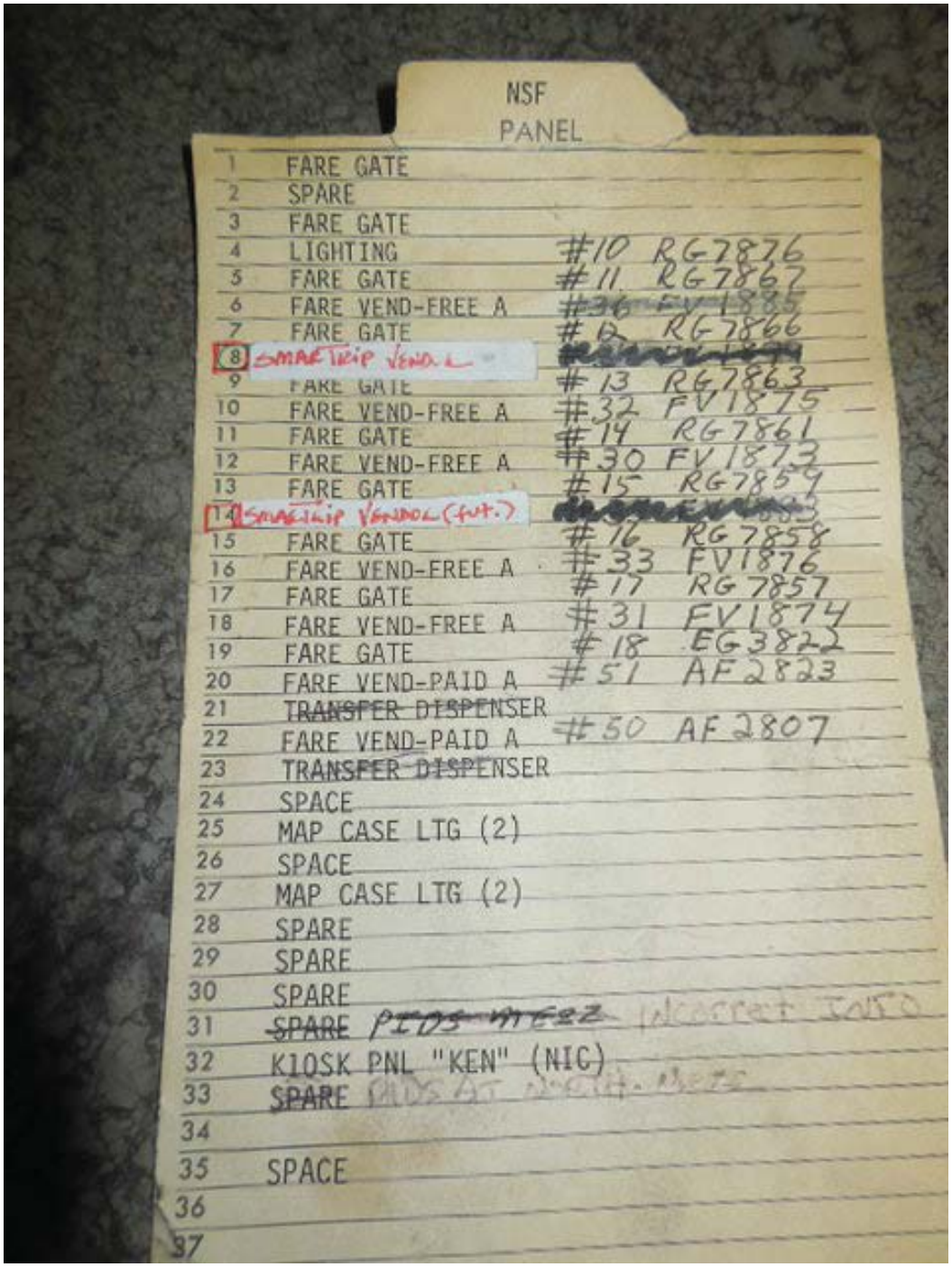


Picture 2: F06 Anacostia (North) – AFC Panel NSF in room 301

Picture 3: F06 Anacostia (North) – AFC Panel NSF in room 301

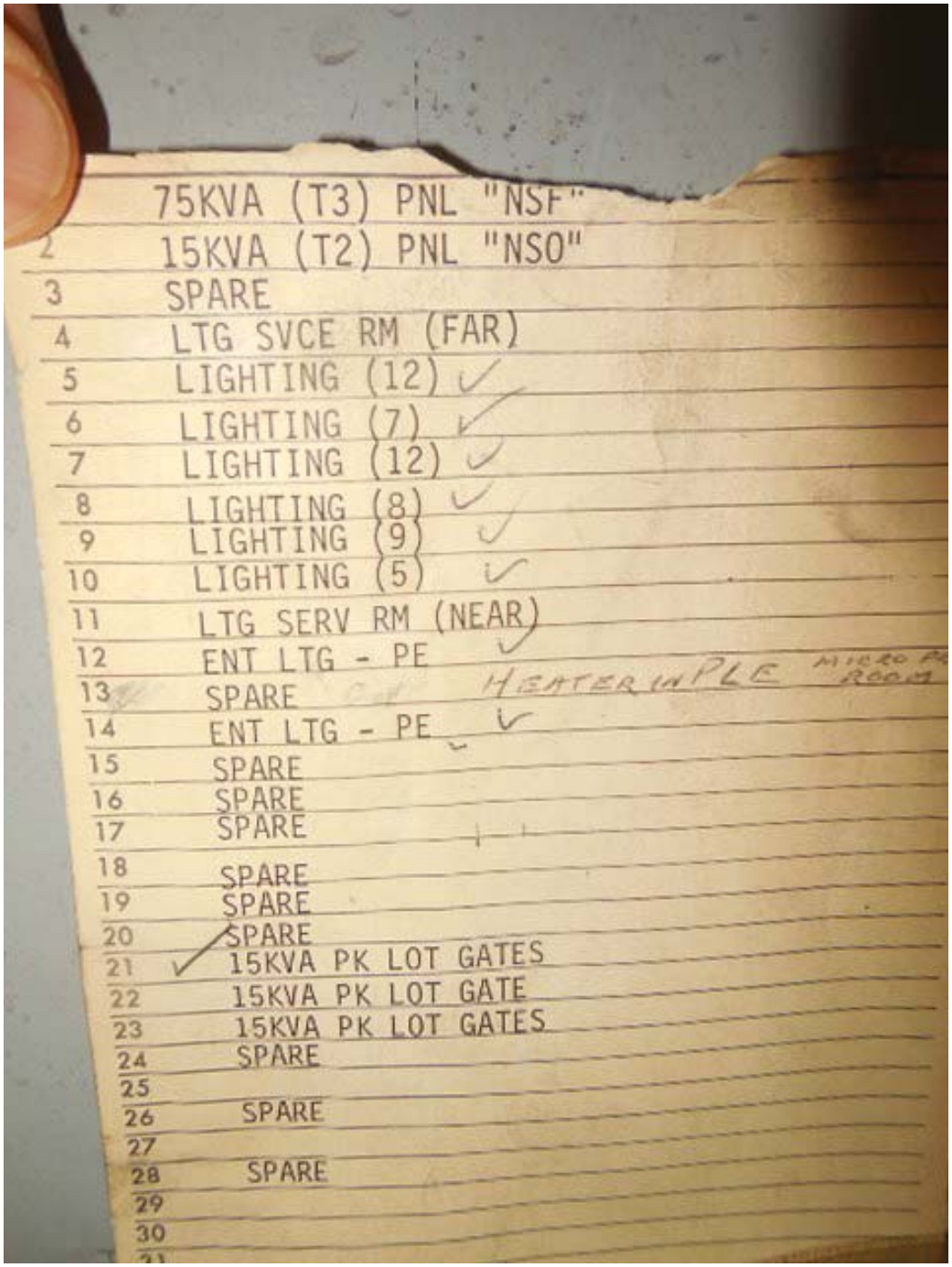
Picture 4: F06 Anacostia (North) – AFC Panel NSF in room 301, bottom ducts & conduit

Picture 5: F06 Anacostia (North) – AFC Panel NSF in room 301, panel schedule



Picture 6: F06 Anacostia (North) – Panel NSM in room 301

Picture 7: F06 Anacostia (North) – Panel NSM in room 301, panel schedule



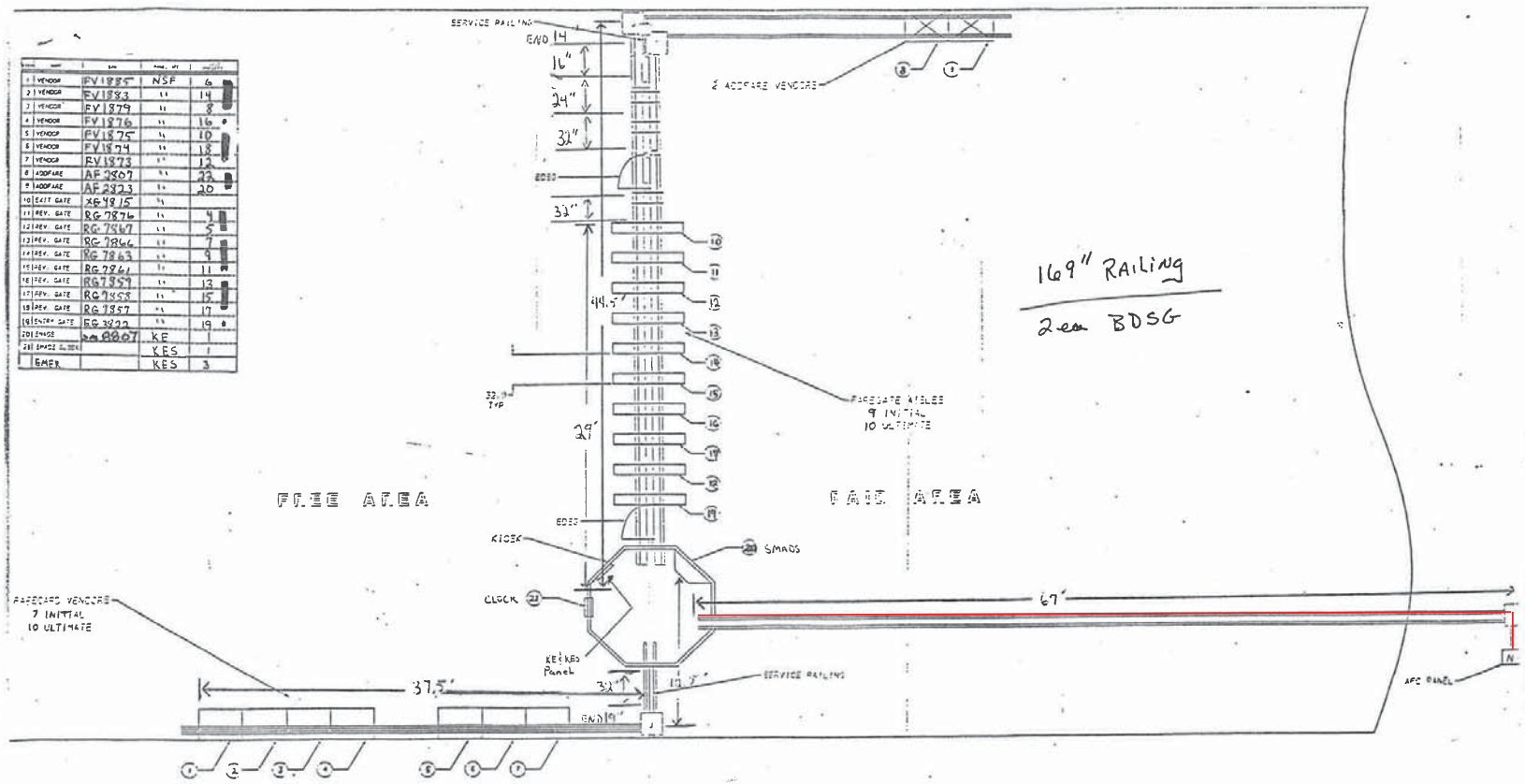
Pictures 8&9: F06 Anacostia (North) – Emergency Panel NSE in room 301

Picture 10: F06 Anacostia (North) – Emergency Panel NSE in room 301, Panel schedule

NSE
PANEL

1	SPARE
2	PNL "KEN" KIOSK (NEC)
3	ELEVATOR
4	ESCALATORS
5	LTG SKYLIGHT
6	SPARE 120V DISC GAT. COM
7	ETS LTG PLATFORM
8	SPARE
9	BUSSED SPACE ESCALATORS
10	SPARE
11	BUSSED SPACE
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	

Pre-Inspection Field Verification 10/28/2014

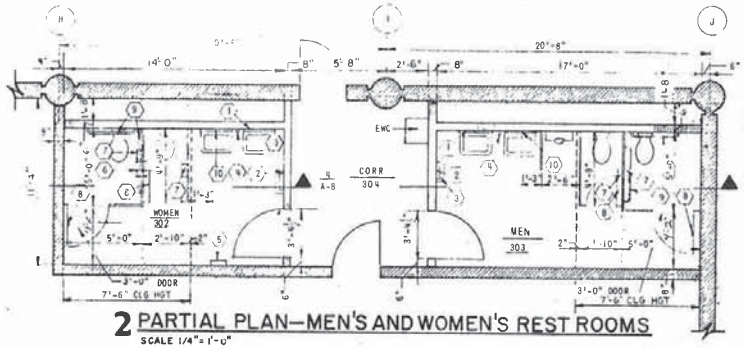


1	VENDOR	FV1885	NSF	6
2	VENDOR	FV1883	"	14
3	VENDOR	FV1879	"	8
4	VENDOR	FV1876	"	16
5	VENDOR	FV1875	"	10
6	VENDOR	FV1874	"	18
7	VENDOR	RV1873	"	12
8	ADDFARE	AF2807	"	22
9	ADDFARE	AF2823	"	20
10	EXIT GATE	XG4915	"	
11	REV. GATE	RG7876	"	4
12	REV. GATE	RG7867	"	5
13	REV. GATE	RG7866	"	7
14	REV. GATE	RG7863	"	9
15	REV. GATE	RG7861	"	11
16	REV. GATE	RG7859	"	13
17	REV. GATE	RG7858	"	15
18	REV. GATE	RG7857	"	17
19	ENTRY GATE	EG3822	"	19
20	SPARE	see 8007	KE	
21	SPARE		KES	1
	EMER.		KES	3

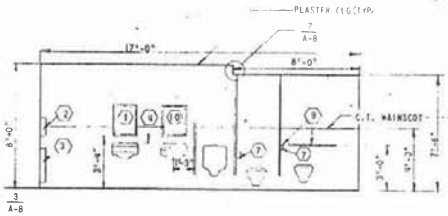
Ref. 931-4003
FOR WACKER Ducting
& WIRE SIZES & Hardware CALLOUT

CUBIC WESTERN
N. ANACOSTIA STA
MEZZANINE LAYO

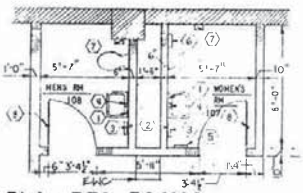
85



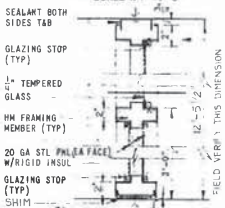
2 PARTIAL PLAN—MEN'S AND WOMEN'S REST ROOMS
SCALE 1/4"=1'-0"



3 ELEVATION
SCALE 1/4"=1'-0"

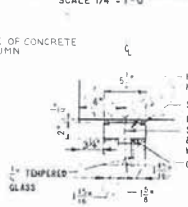


6 PARTIAL PLAN-RESTROOMS-PLATFORM LEVEL
SCALE 1/4"=1'-0"

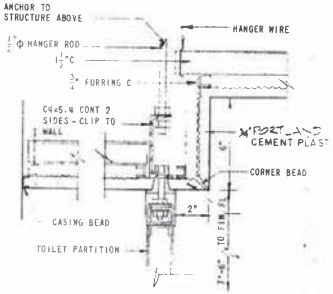


4 ELEVATION
SCALE 1/4"=1'-0"

9 DETAIL
SCALE: 1 1/2"=1'-0"



10 DETAIL
SCALE: 1 1/2"=1'-0"



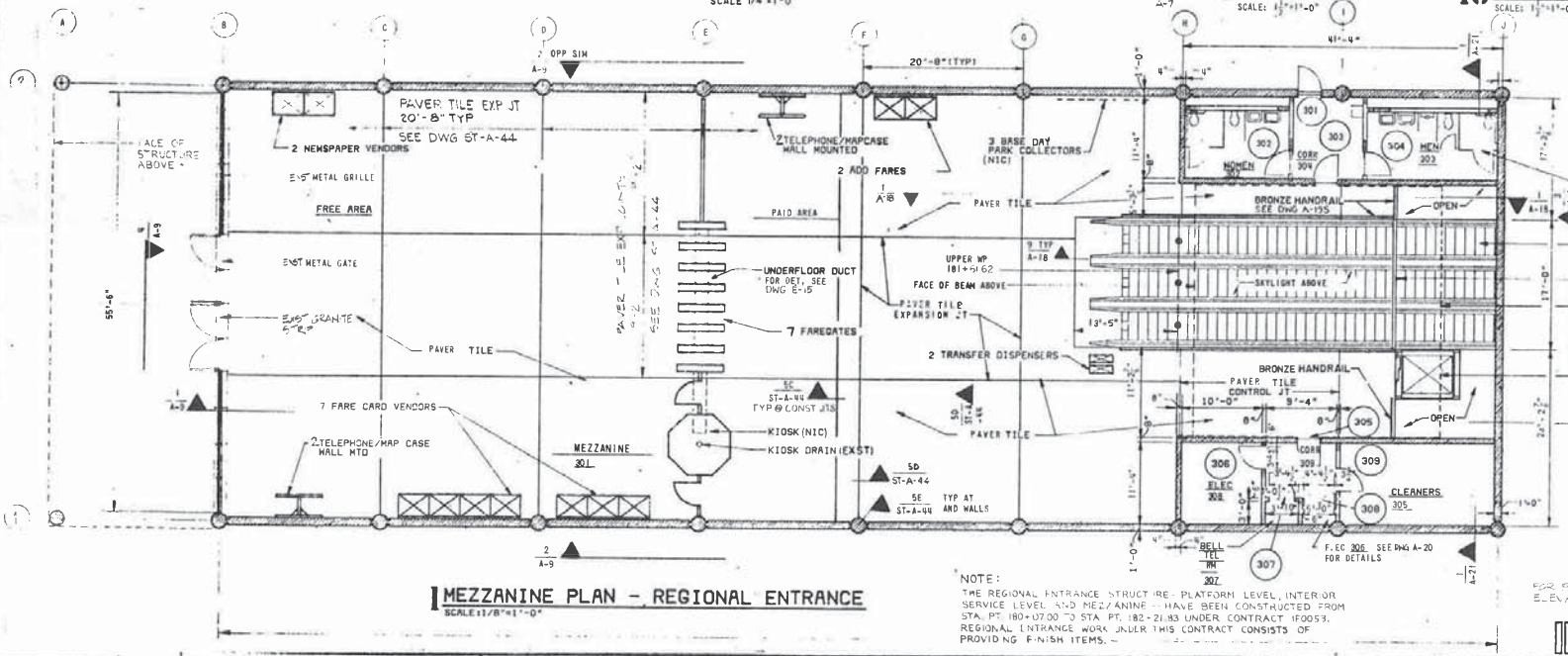
7 TYPICAL FURRING DETAIL AT TOILET PARTITION
SCALE 3"=1'-0"
A-8, A-11

5 TYPICAL MOUNTING HEIGHTS
SCALE 1/4"=1'-0"

TOILET ACCESSORY SCH

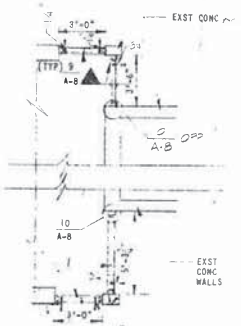
1	MIRROR
2	PAPER TOWEL DISPENSER
3	WASTE RECEPTACLE
4	SOAP DISPENSER
5	SANITARY NAPKIN DISPENSER
6	SANITARY NAPKIN DISPOSAL
7	PAPER HOLDER
8	DOOR MOUNTED COATHOOK & BUMPER
9	HCP GRAB BARS
10	TILT MIRROR FOR HCP (24"H)

Pre-Inspection Field Verification 10/28/2014

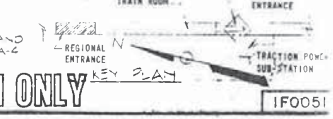


1 MEZZANINE PLAN - REGIONAL ENTRANCE
SCALE: 1/8"=1'-0"

NOTE:
THE REGIONAL ENTRANCE STRUCTURE - PLATFORM LEVEL, INTERIOR SERVICE LEVEL AND MEZZANINE - HAVE BEEN CONSTRUCTED FROM STA. PT. 180+07.00 TO STA. PT. 182+21.83 UNDER CONTRACT 1F0053. REGIONAL ENTRANCE WORK UNDER THIS CONTRACT CONSISTS OF PROVIDING FINISH ITEMS.



8 ENLARGED PLAN - PLATFORM REGIONAL ENTRANCE
SCALE: 1/8"=1'-0"



FOR PAVER TILE AT ESCALATOR AND ELEVATOR SEE NOTE, DWG A-2

INFORMATION ONLY

1F0051

HWA 6-30-86
RJB 6-30-86

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
APPROVED
APPROVED

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED

ANACOSTIA STATION NORTH MEZZ.
A.F.C. LAYOUT

SCALE: AS SHOWN
DRAWING NO: 85

EXISTING PANEL "NSF"

AMPERES: 175	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 175A MCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT RM. 301	
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1	

	CKT BKRS		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	NEW KIOSK RECEPT. (IT & NEPP)
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.0	SPARE (KIOSK)
EXISTING VENDOR	0.8	20	1	5	- - C	6	1	20	0.0	SPARE
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	0.8	20	1	11	- - C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A - -	14	1	20	0.0	SPARE
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	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE
1 SPARE	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
1&2 SPARE	0.0	20	1	23	- - C	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A - -	26	-	-	0.0	SPACE
EXISTING VENDOR	0.8	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	3	50	2.9	EXIST. LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	33	- B -	34	-	-	2.5	
EXISTING VENDOR	0.8	20	1	35	- - C	36	-	-	2.5	

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	8.0 x 50%		4.0 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	25.5 KVA	TOTAL DEMAND KVA	22.3 KVA
		TOTAL DEMAND AMPS	61.8 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	8.5 KVA		
PHASE B:	9.7 KVA		
PHASE C:	7.3 KVA		

NOTES: A. EXISTING PANEL "NSF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "NSM" LOCATED IN ELEC. EQUIPMENT RM. 301, CIRCUIT #1-90/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).

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

EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2- 6 1/2"x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
- 1- 3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
- 2-3/4" C. (WIRING FILL >40%).
- 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

EXISTING PANEL "SSF"

AMPERES: 175	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 175A MCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT ROOM 302	
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1	

	CKT BKRS			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 - -	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	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
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
1&2 SPARE (KIOSK)	0.0	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	19	A - -	20	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	21	- B -	22	1	20	0.0	SPARE
SPARE	0.0	20	1	23	- - C	24	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	25	A - -	26	3	50	2.9	EXISTING LOAD CENTER "KES"
SPARE	0.0	20	1	27	- B -	28	-	-	2.5	
EXISTING VENDOR	0.8	20	1	29	- - C	30	-	-	2.5	
SPARE	0.0	20	1	31	A - -	32	-	-	0.0	SPACE
SPARE	0.0	20	1	33	- B -	34	-	-	0.0	SPACE
SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE
SPACE	0.0	-	-	37	A - -	38	-	-	0.0	SPACE
SPACE	0.0	-	-	39	- B -	40	-	-	0.0	SPACE
SPACE	0.0	-	-	41	- - C	42	-	-	0.0	SPACE

NOTES 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	6.4 x 50%		3.2 KVA
MISC APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	23.9 KVA	TOTAL DEMAND KVA	21.5 KVA
		TOTAL DEMAND AMPS	59.6 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.3 KVA		
PHASE B:	7.3 KVA		
PHASE C:	7.3 KVA		

NOTES: A. EXISTING PANEL "SSF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "SSM" LOCATED IN ELEC. EQUIPMENT RM. 302, CIRCUIT #1-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-3/4" C. (WIRING FILL >20%).
- 1-3/4" EMPTY CONDUIT.

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 >30%).

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

Pre-Inspection Field Verification 10/28/2014

CONTRACT NO 14-FQ10060-CENI-24

DESIGNED C. MDD 08-14 DATE
DRAWN C. MDD 08-14 DATE
CHECKED B. KOLB 08-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

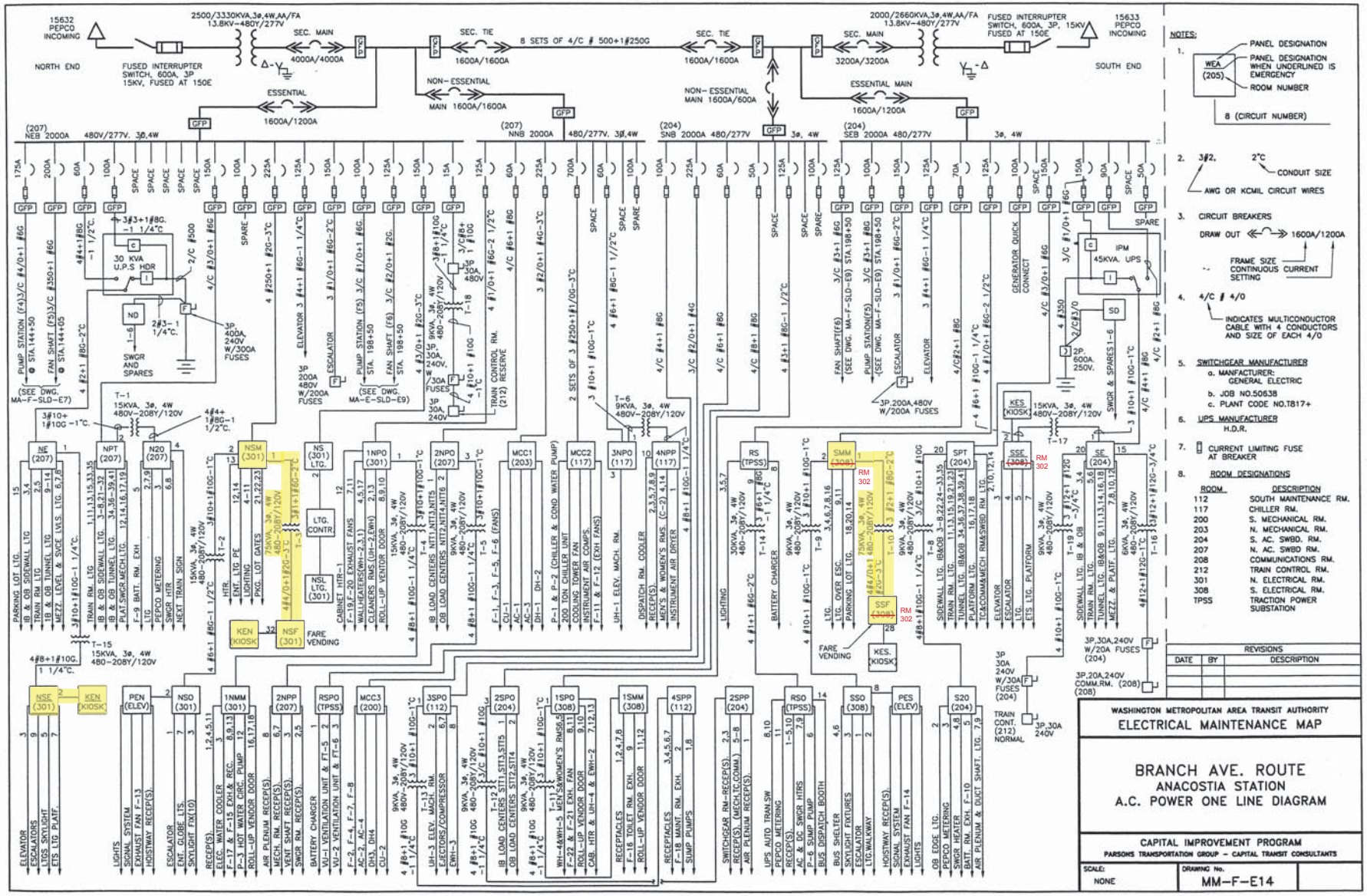
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE

DRAWING NO. F06-E-102



Pre-Inspection Field Verification 10/28/2014

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	**Station Name:** Anacostia (South) - F06	**Mezzanine #:** 106	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: SSM Source Breaker Name/Number: Breaker #1 Electrical AFC Panel Name/Number: SSF	Rm 302 Rm 302 Rm 302	
☑	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: SMNT/POWR escorts: HIGH and LOW Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
☑	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☑ COMM / IT ☐ ELES ☐ RAIL ☐ CMNT ☐ Other Access/Support:		
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level.

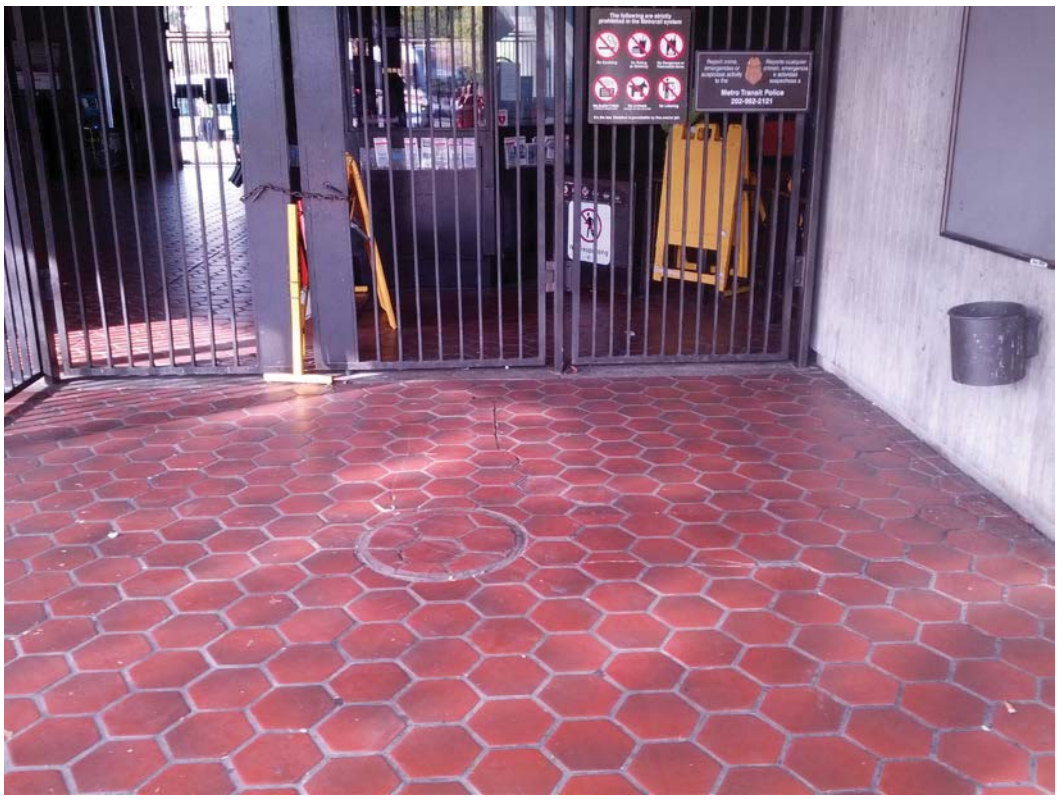
Emergency Power Verification

Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: SSE Emergency Source Breaker Name/Number: Breaker #2 Panel Name/Number: KES (Kiosk Panel)	Rm 302 Rm 302 Kiosk	Panel KE located in Kiosk, Breaker #4 will de-energize emergency power to faregates.

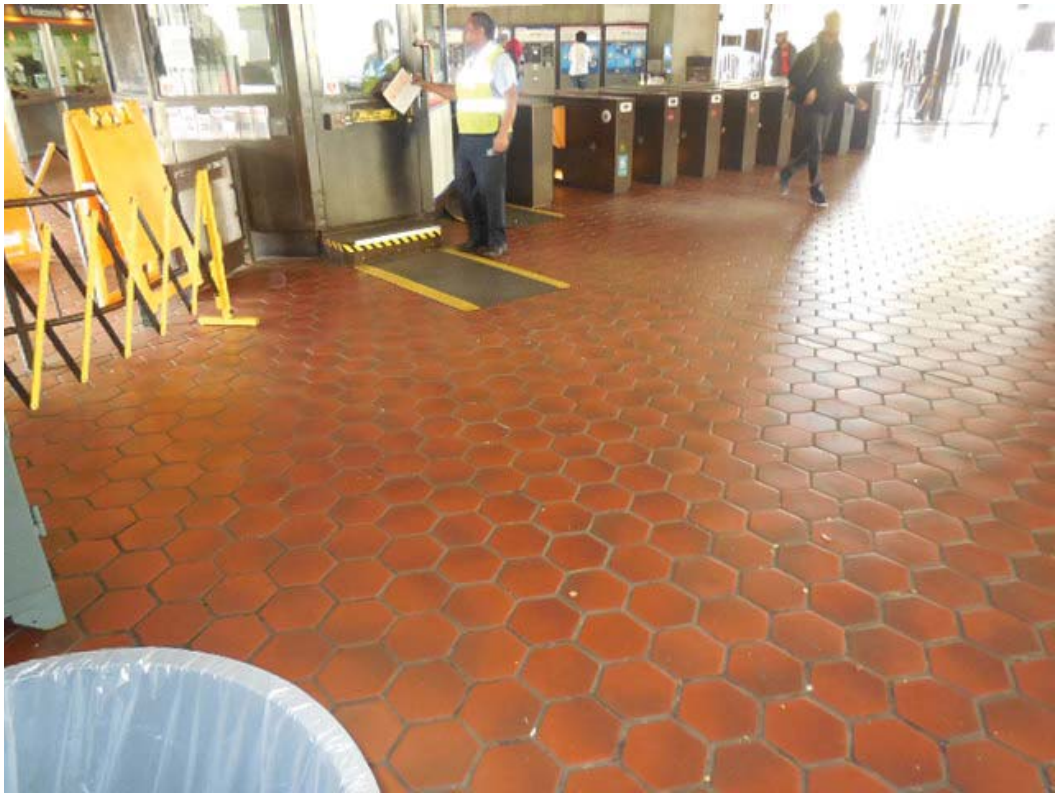
Notes and Discrepancies:

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmeya Sahoo	
Date:	10/28/2014	

Pictures 1&2: F06 Anacostia (South) – Manhole near eastern entrance gate



Picture 3: F06 Anacostia (South) – No handholes in mezzanine

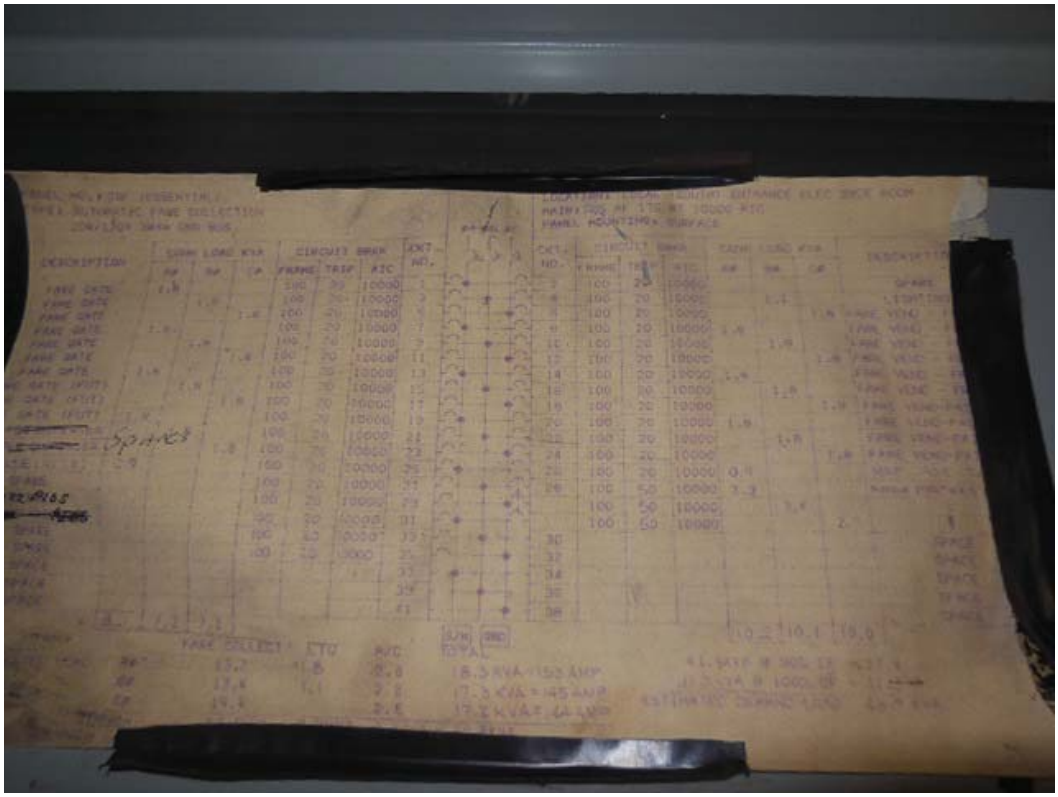


Picture 4: F06 Anacostia (South) – AFC Panel SSF in room 302

Picture 5: F06 Anacostia (South) – AFC Panel SSF in room 302

Picture 6: F06 Anacostia (South) – AFC Panel SSF in room 302, bottom ducts

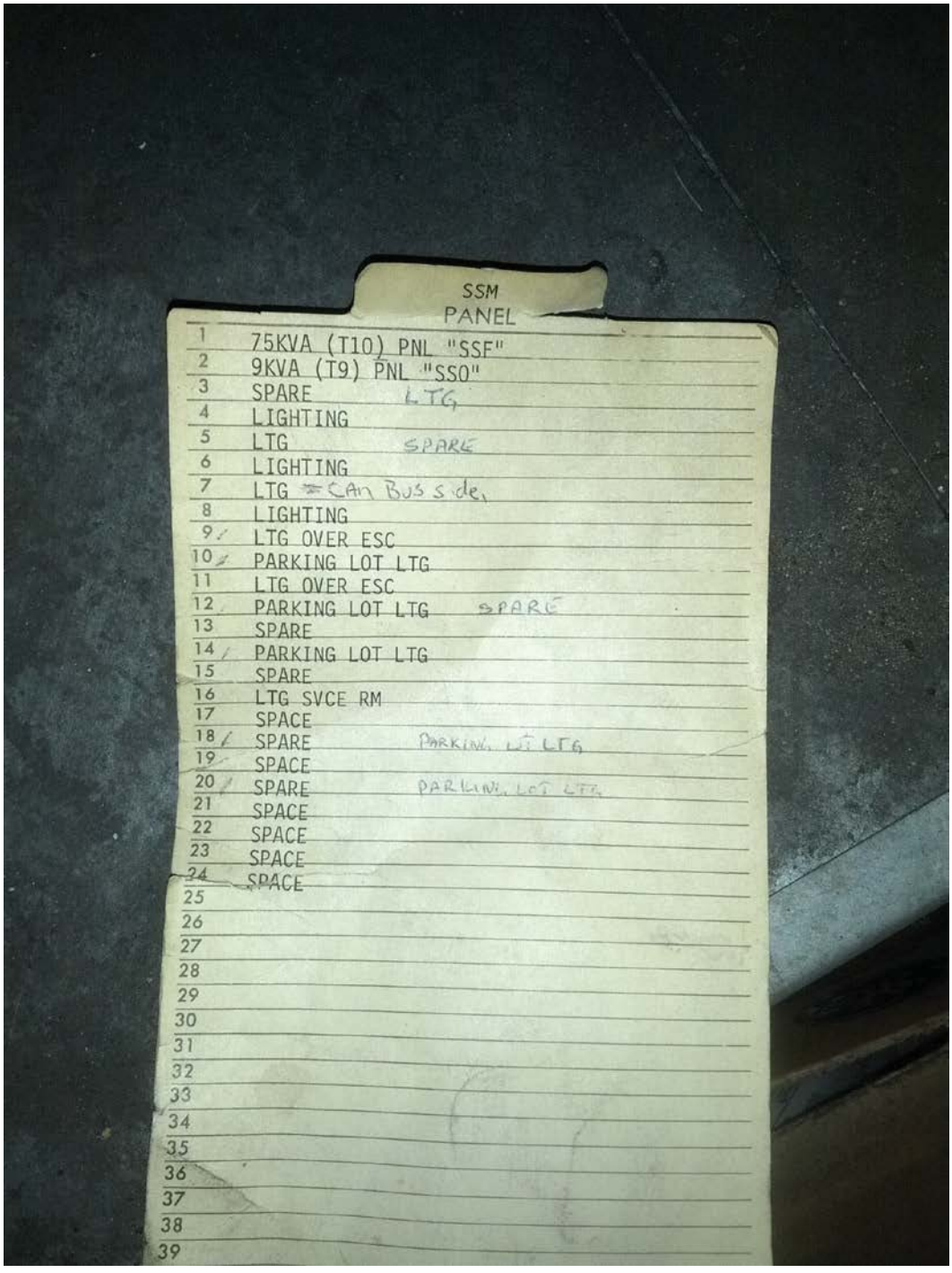
Picture 7 F06 Anacostia (South) – AFC Panel SSF in room 302, panel schedule



Picture 8: F06 Anacostia (South) – Panel SSM in room 302

Picture 9: F06 Anacostia (South) – Panel SSM in room 302

Picture 10: F06 Anacostia (South) – Panel SSM in room 302, Panel schedule



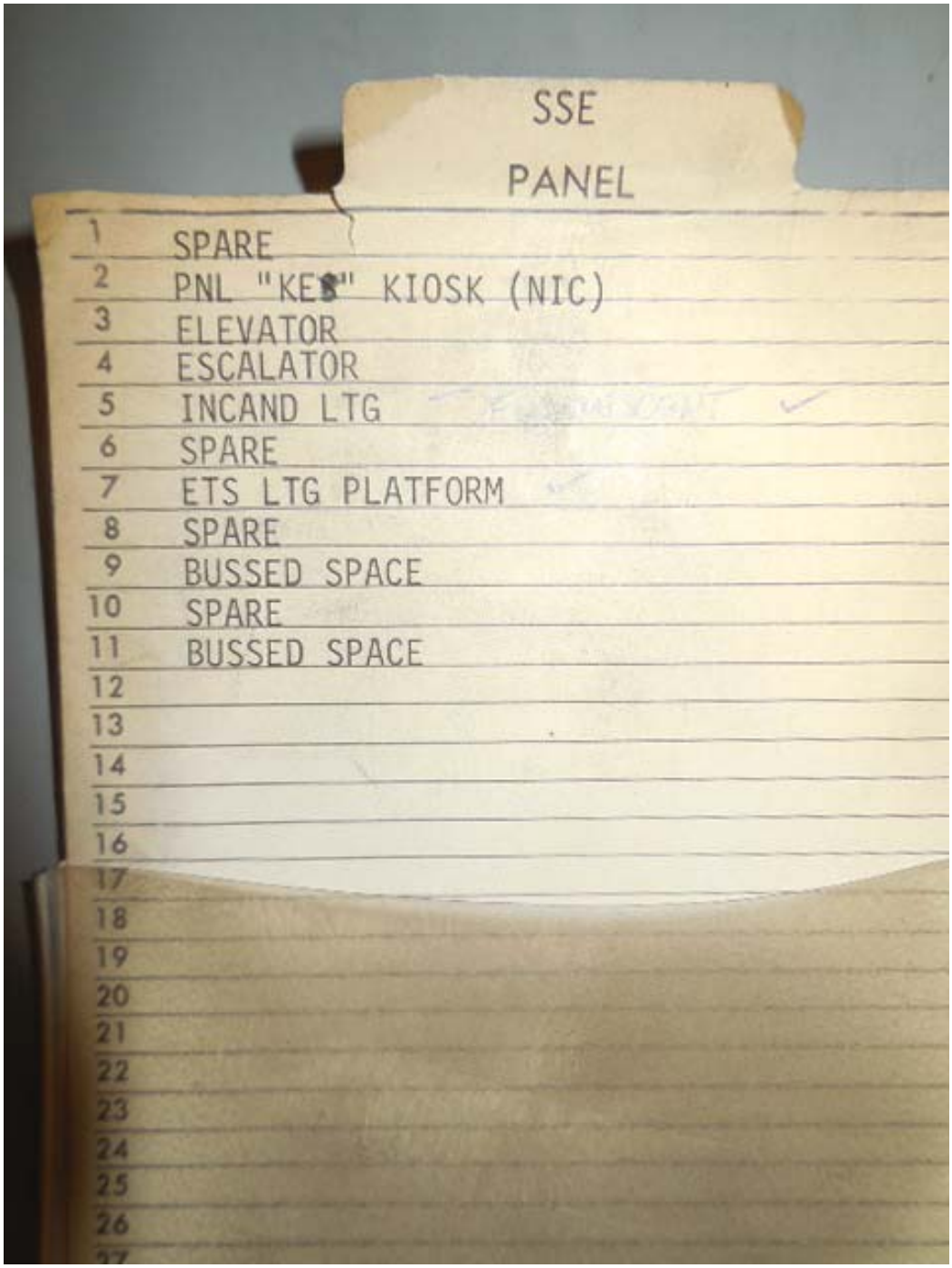
SSM
PANEL

1	75KVA (T10) PNL "SSF"
2	9KVA (T9) PNL "SSO"
3	SPARE LTG
4	LIGHTING
5	LTG SPARE
6	LIGHTING
7	LTG = CAN BUS side
8	LIGHTING
9	LTG OVER ESC
10	PARKING LOT LTG
11	LTG OVER ESC
12	PARKING LOT LTG SPARE
13	SPARE
14	PARKING LOT LTG
15	SPARE
16	LTG SVCE RM
17	SPACE
18	SPARE PARKING LOT LTG
19	SPACE
20	SPARE PARKING LOT LTG
21	SPACE
22	SPACE
23	SPACE
24	SPACE
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	

Picture 11: F06 Anacostia (South) – Panel SSE Emergency in room 302

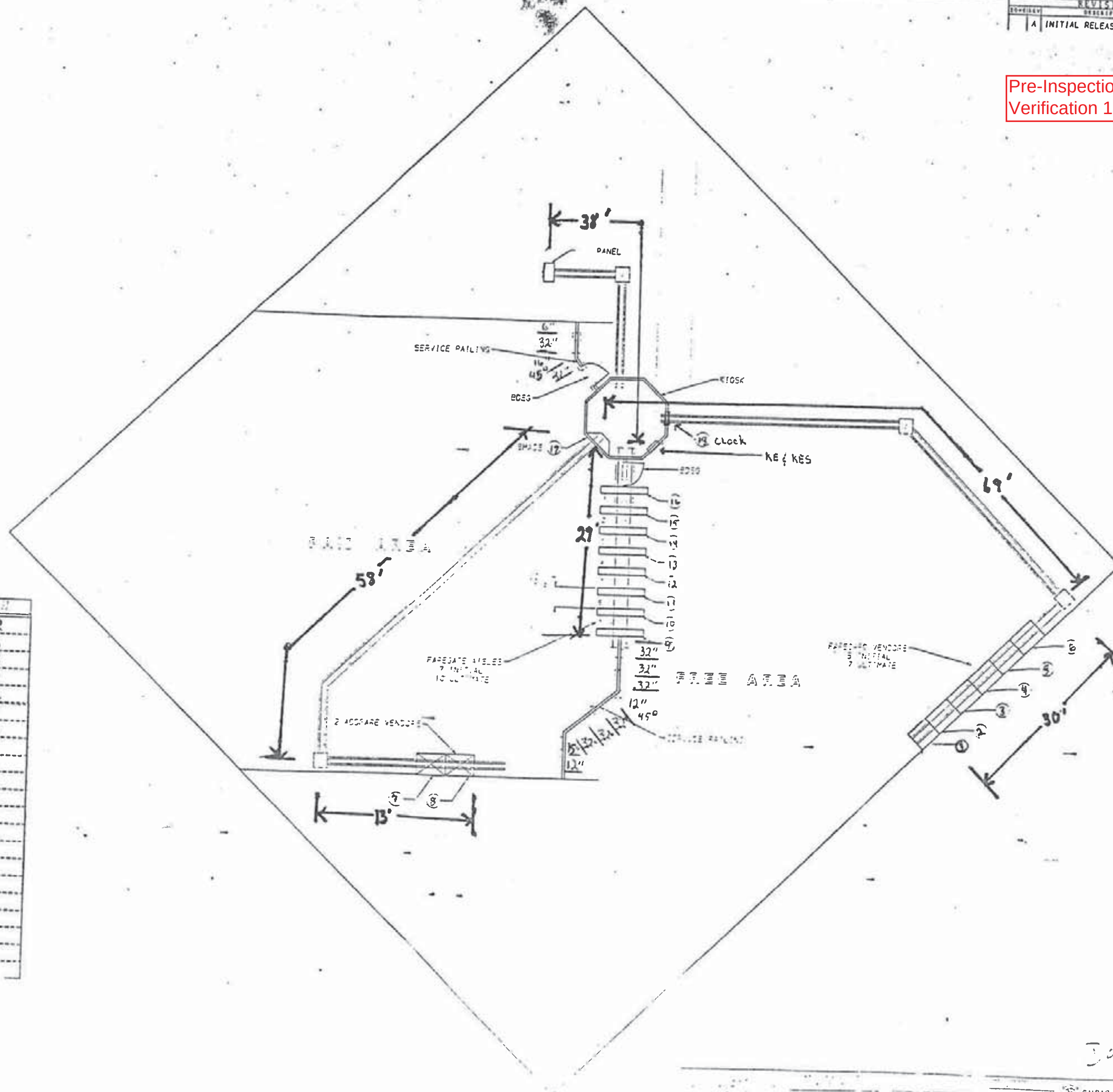
Picture 12: F06 Anacostia (South) – Panel SSE Emergency in room 302

Picture 13: F06 Anacostia (South) – Panel SSE Emergency in room 302, Panel schedule



REVISIONS		
A	INITIAL RELEASE	

Pre-Inspection Field Verification 10/28/2014



ITEM	TYPE	S/N	[illegible]	[illegible]
1	VENDOR	FV 1835	SSF	2
2	VENDOR	FV 1846	"	6
3	VENDOR	FV 1843	"	4
4	VENDOR	FV 1809	"	10
5	VENDOR	FV 1806	"	12
6	VENDOR	FV 1826	"	14
9	ADDFARE	AF2817	"	16
8	ADDFARE	AF2816	"	18
9	EXIT GATE			
10	REV. GATE	RG 7827	"	1
11	REV. GATE	RG 7826	"	3
12	REV. GATE	RG 7825	"	5
13	REV. GATE	RG 7823	"	7
14	REV. GATE	RG 7821	"	9
15	REV. GATE	RG 7820	"	11
16	ENTRY GATE	EG 3808	"	13
19	SMADS		KE	1
15	CLOCK		KE	8
19	Emrg P		KES	6

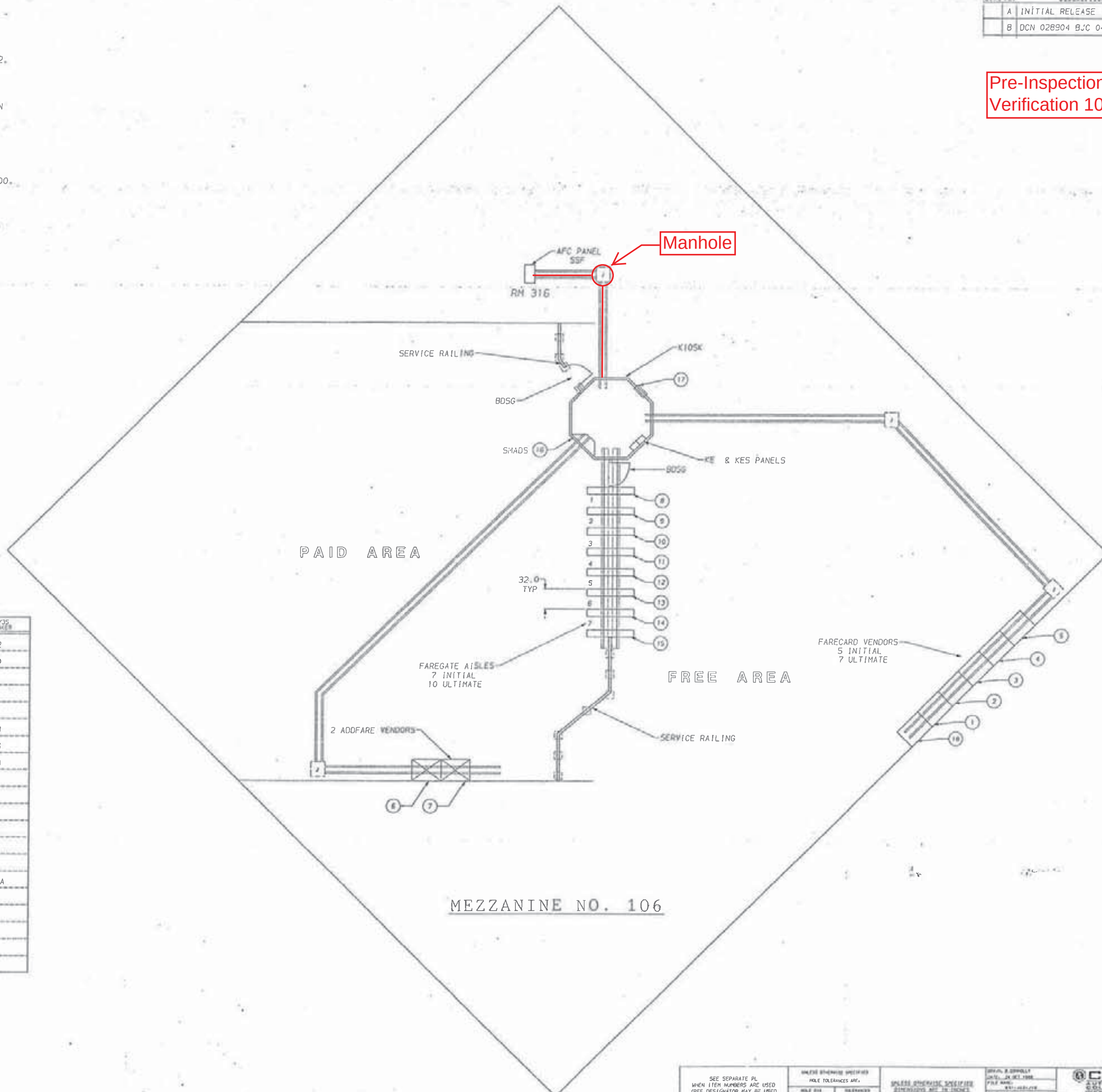
Done

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	INITIAL RELEASE	01/10/92	
	B	DCN 028904 BJC 04/03/92	4/3/92	

Pre-Inspection Field Verification 10/28/2014

NOTES:

1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL: 10,12 & 14; 2,6 & 8; 16 & 18; 7,9 & 11; 1,3 & 5.



ITEM	NAME	S/N	PANEL AFC	1/35 BREAKER
1	VENDOR	1806	SSF	12
2	VENDOR	1809	SSF	10
3	VENDOR	1841	SSF	8
4	VENDOR	1846	SSF	6
5	VENDOR	1835	SSF	2
6	ADDFARE	2816	SSF	18
7	ADDFARE	2817	SSF	16
8	ENTRY GATE	3808	SSF	13
9	REV. GATE	7820	SSF	11
10	REV. GATE	7821	SSF	9
11	REV. GATE	7823	SSF	7
12	REV. GATE	7825	SSF	5
13	REV. GATE	7826	SSF	3
14	REV. GATE	7827	SSF	1
15	EXIT GATE	4805	SSF	N/A
16	SMADS	8818	KE	1
17	S. CLOCK	98916	KES	1
18	VENDOR	1826	SSF	14
19	EMERGENCY LT		KE	4

SEE SEPARATE PL WHEN ITEM NUMBERS ARE USED (REF DESIGNATOR MAY BE USED IN LIEU OF ITEM NUMBERS)

NEXT ASSY:

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES — ANGULAR ±0°30'

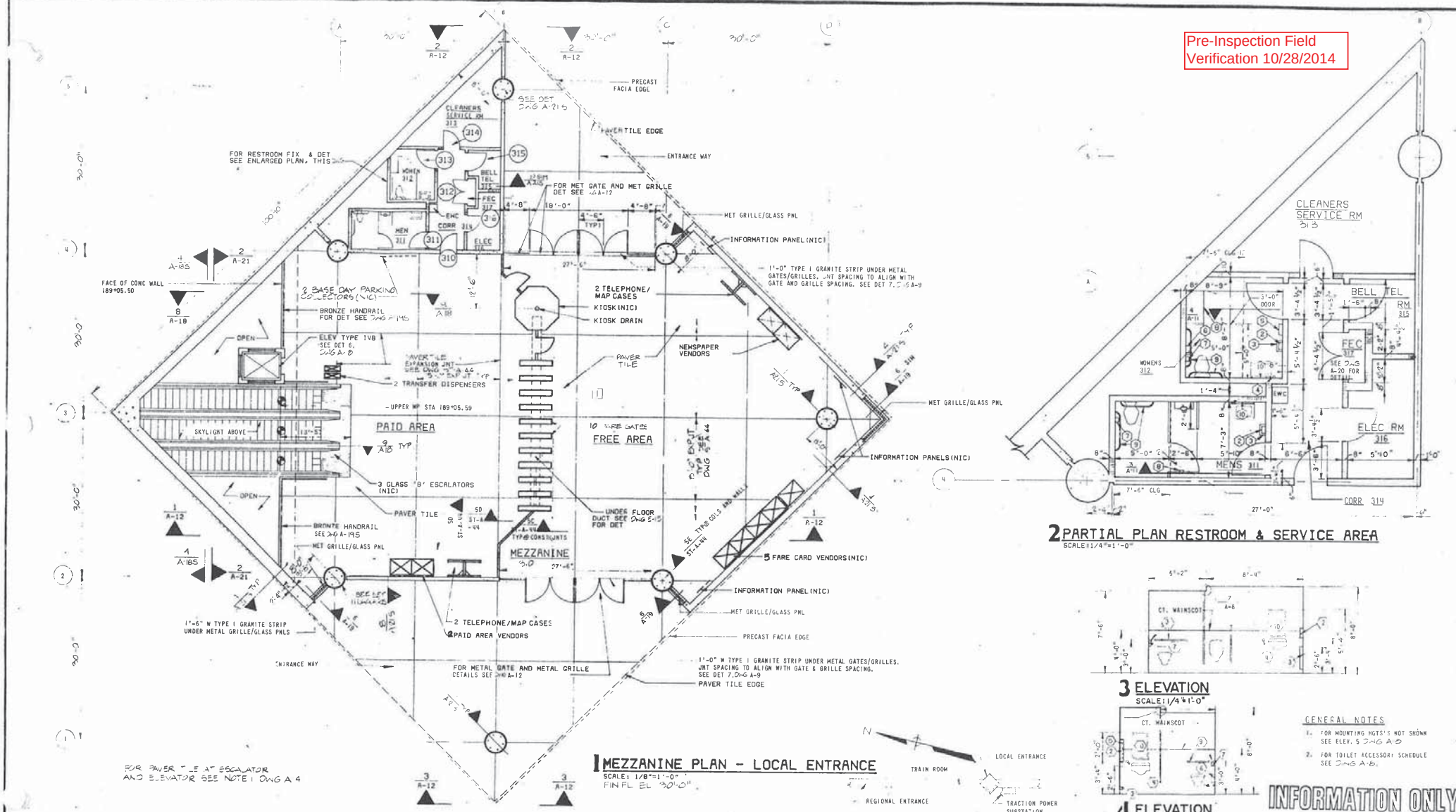
CUBIC AUTOMATIC REVENUE COLLECTION GROUP WESTERN DATA DIVISION

TITLE: S. ANACOSTIA STATION MEZZANINE LAYOUT

SIZE B | FSCM NO. 87860 | DWG NO. 931-4021 | REV B

SCALE 1/55 | SHEET 1 OF 1

Pre-Inspection Field Verification 10/28/2014



1 MEZZANINE PLAN - LOCAL ENTRANCE

SCALE: 1/8"=1'-0"
FIN FL EL 30'-0"

KEY PLAN

2 PARTIAL PLAN RESTROOM & SERVICE AREA

SCALE: 1/4"=1'-0"

3 ELEVATION

SCALE: 1/4"=1'-0"

4 ELEVATION

SCALE: 1/4"=1'-0"

GENERAL NOTES

1. FOR MOUNTING HGTS'S NOT SHOWN SEE ELEV. 5 DWG A-8
2. FOR TOILET ACCESSORY SCHEDULE SEE DWG A-8.

INFORMATION ONLY

IF005

DRAWN	H.W.A.	6-20-86	DATE
CHECKED	R.B.	6-30-86	DATE
APPROVED			DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
APPROVED
APPROVED
SUBMITTED

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ANACOSTIA STATION SOUTH MEZZ, A.F.C. LAYOUT

SCALE: AS SHOWN
DRAWING NO: 106

EXISTING PANEL "NSF"

AMPERES: 175	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 175A MCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT RM. 301	
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1	

LOAD DESCRIPTION	KVA	CKT BKRS AMP	CKT BKRS POLE	CKT NO.		CKT NO.	CKT BKRS POLE	CKT BKRS AMP	KVA	LOAD DESCRIPTION	
EXISTING VENDOR	0.8	20	1	1	A - -	2	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	1
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.0	SPARE (KIOSK)	1&2
EXISTING VENDOR	0.8	20	1	5	- - C	6	1	20	0.0	SPARE	
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	0.8	20	1	11	- - C	12	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	13	A - -	14	1	20	0.0	SPARE	
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	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE	
SPARE	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	23	- - C	24	-	-	0.0	SPACE	
EXISTING VENDOR	0.8	20	1	25	A - -	26	-	-	0.0	SPACE	
EXISTING VENDOR	0.8	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	3	50	2.9	EXIST. LOAD CENTER "KES"	
EXISTING VENDOR	0.8	20	1	33	- B -	34	-	-	2.5		
EXISTING VENDOR	0.8	20	1	35	- - C	36	-	-	2.5		

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	8.0 x 50%		4.0 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	25.5 KVA	TOTAL DEMAND KVA	22.3 KVA
		TOTAL DEMAND AMPS	61.8 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	8.5 KVA		
PHASE B:	9.7 KVA		
PHASE C:	7.3 KVA		

NOTES: A. EXISTING PANEL "NSF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "NSM" LOCATED IN ELEC. EQUIPMENT RM. 301, CIRCUIT #1-90/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).

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

EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2- 6 1/2"x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
- 1- 3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
- 2-3/4" C. (WIRING FILL >40%).
- 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

EXISTING PANEL "SSF"

AMPERES: 175	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 175A MCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT ROOM 302	
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1	

	LOAD DESCRIPTION	KVA	CKT BKRS AMP	CKT BKRS POLE	CKT NO.		CKT NO.	CKT BKRS POLE	CKT BKRS 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 - -	8	1	20	0.8	EXISTING VENDOR
	EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
	EXISTING VENDOR	0.8	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
1	NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
1&2	SPARE (KIOSK)	0.0	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
	SPARE	0.0	20	1	19	A - -	20	1	20	0.8	EXISTING VENDOR
	SPARE	0.0	20	1	21	- B -	22	1	20	0.0	SPARE
	SPARE	0.0	20	1	23	- - C	24	1	20	0.0	SPARE
	EXISTING VENDOR	0.8	20	1	25	A - -	26	3	50	2.9	EXISTING LOAD CENTER "KES"
	SPARE	0.0	20	1	27	- B -	28	-	-	2.5	
	EXISTING VENDOR	0.8	20	1	29	- - C	30	-	-	2.5	
	SPARE	0.0	20	1	31	A - -	32	-	-	0.0	SPACE
	SPARE	0.0	20	1	33	- B -	34	-	-	0.0	SPACE
	SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE
	SPACE	0.0	-	-	37	A - -	38	-	-	0.0	SPACE
	SPACE	0.0	-	-	39	- B -	40	-	-	0.0	SPACE
	SPACE	0.0	-	-	41	- - C	42	-	-	0.0	SPACE

NOTES 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	6.4 x 50%		3.2 KVA
MISC APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	23.9 KVA	TOTAL DEMAND KVA	21.5 KVA
		TOTAL DEMAND AMPS	59.6 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.3 KVA		
PHASE B:	7.3 KVA		
PHASE C:	7.3 KVA		

NOTES: A. EXISTING PANEL "SSF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "SSM" LOCATED IN ELEC. EQUIPMENT RM. 302, ~~CIRCUIT #1-90A/3P~~ VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).

Breaker #1

B. EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-3/4" C. (WIRING FILL >20%).
- 1-3/4" EMPTY CONDUIT.

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 >30%).

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

Pre-Inspection Field Verification 10/28/2014

CONTRACT NO 14-FQ10060-CENI-24

DESIGNED	C. MDD	08-14	DATE
DRAWN	C. MDD	08-14	DATE
CHECKED	B. KOLB	08-14	DATE
APPROVED	N/A		DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

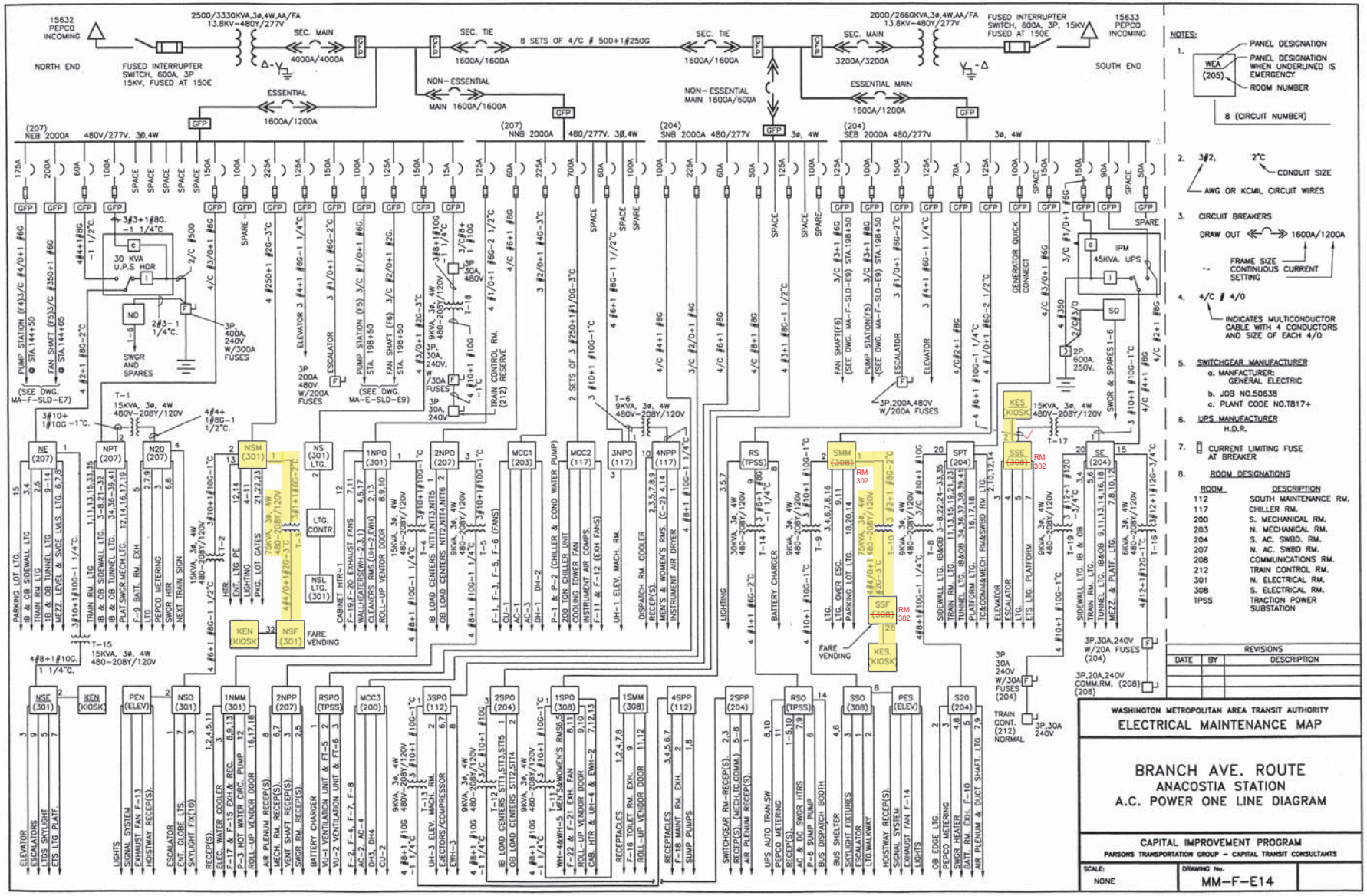
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE

DRAWING NO.: F06-E-102



Pre-Inspection Field Verification 10/28/2014

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/02/2014	**Station Name:** Congress Heights - F07	**Mezzanine #:** 086	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: MESS A Source Breaker Name/Number: Breaker #2,4,6 Electrical AFC Panel Name/Number: MESS B	Rm C216 Rm C216 Rm C216	
☑	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: SMNT/POWR escorts: HIGH Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
☑	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☑ COMM / IT ☐ ELES ☐ RAIL ☐ CMNT ☐ Other Access/Support: AFC		Handhole located under fare vending machine VN1454.
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduits/ducts are on one level. Must be able to access handhole under fare vending machine mentioned above.

Emergency Power Verification

Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Source Breaker Name/Number: Panel Name/Number:		N/A - Emergency receptacles in faregates not energized and verified by AFC escort and WMATA inspector.

Notes and Discrepancies:

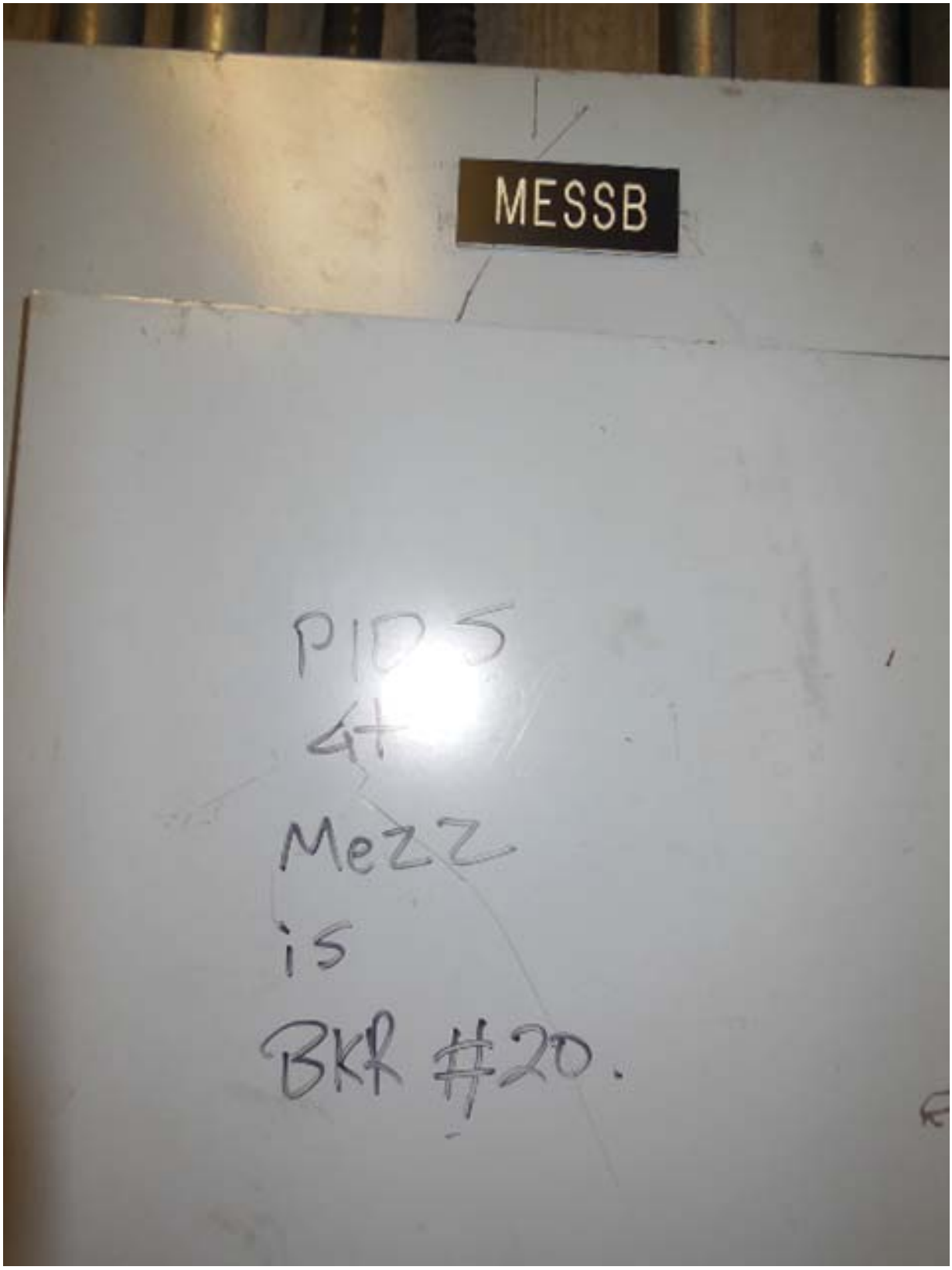
Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmina Sahoo	
Date:	10/02/2014	

Picture 1: F07 Congress Heights – Handholes believed to be under fare vending machines in Mezzanine

Picture 2: F07 Congress Heights – Handholes believed to be under fare vending machines in Mezzanine

Picture 3: F07 Congress Heights – Handholes near door to Rm C216 from Mezzanine

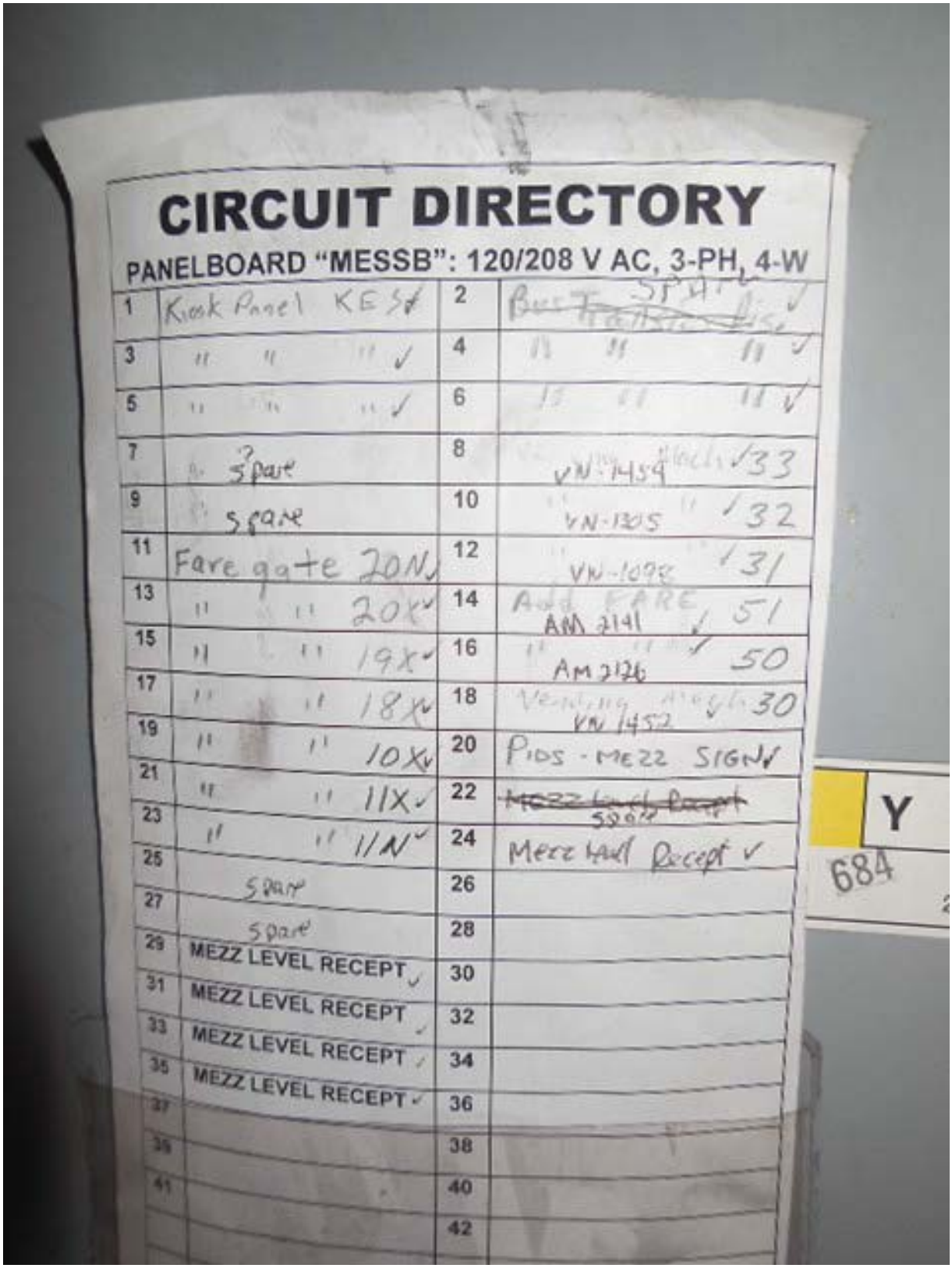
Picture 4: F07 Congress Heights –AFC Panel MESSB in Room C216



Picture 5: F07 Congress Heights – AFC Panel MESSB in Room C216

Picture 6: F07 Congress Heights – AFC Panel MESSB in Room C216

Picture 7: F07 Congress Heights – AFC Panel MESSB schedule in Room C216



CIRCUIT DIRECTORY

PANELBOARD "MESSB": 120/208 V AC, 3-PH, 4-W

1	Kiosk Panel KES#	2	[illegible]
3	" " "	4	" " "
5	" " "	6	" " "
7	Spare	8	VN-1459
9	Spare	10	VN-1305
11	Fare gate 20N	12	VN-1098
13	" " 20X	14	Add FARE AM 2141
15	" " 19X	16	" " AM 2126
17	" " 18X	18	Vending Mach VN 1452
19	" " 10X	20	PIDS - MEZZ SIGN
21	" " 11X	22	~~MEZZ Lunch Recept~~ Spare
23	" " 11N	24	Mezz Hall Recept
25	Spare	26	
27	Spare	28	
29	MEZZ LEVEL RECEPT	30	
31	MEZZ LEVEL RECEPT	32	
33	MEZZ LEVEL RECEPT	34	
35	MEZZ LEVEL RECEPT	36	
37		38	
39		40	
41		42	

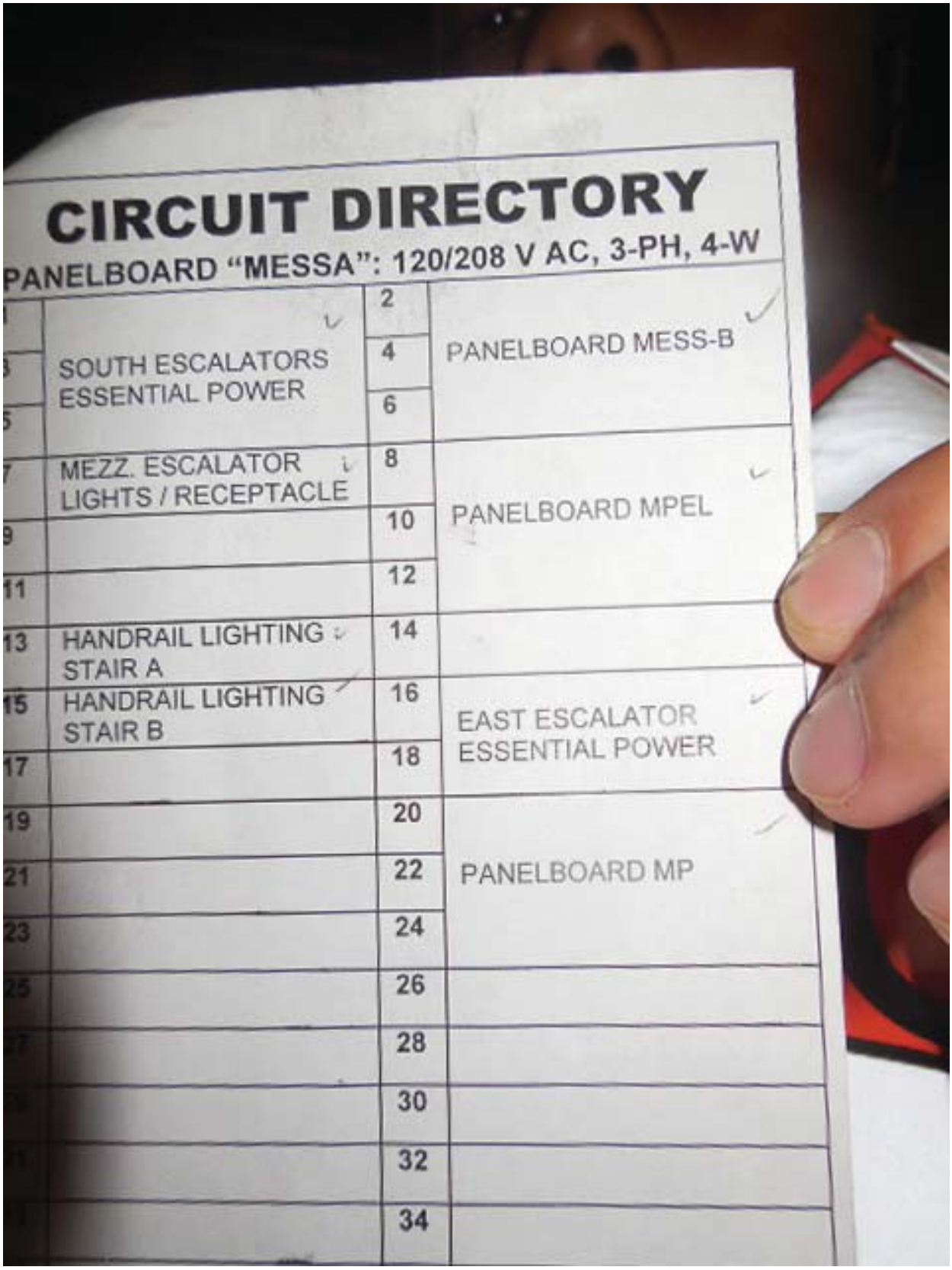
Y

684

Picture 8: F07 Congress Heights – Source Panel MESSA in Room C216

Picture 9: F07 Congress Heights – Source Panel MESSA circuits 2,4,6 in Room C216

Picture 10: F07 Congress Heights – Source Panel MESSA schedule in Room C216



CIRCUIT DIRECTORY

PANELBOARD "MESSA": 120/208 V AC, 3-PH, 4-W

	SOUTH ESCALATORS ESSENTIAL POWER	2	PANELBOARD MESS-B
		4	
		6	
7	MEZZ. ESCALATOR LIGHTS / RECEPTACLE	8	PANELBOARD MPEL
9		10	
11		12	
13	HANDRAIL LIGHTING STAIR A	14	
15	HANDRAIL LIGHTING STAIR B	16	EAST ESCALATOR ESSENTIAL POWER
17		18	
19		20	PANELBOARD MP
21		22	
23		24	
25		26	
		28	
		30	
		32	
		34	

Pre-Inspection Field Verification 10/2/2014

EXISTING PANEL "MESSB"

MFR: EES	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 225A MLO	PHASE: 3	LOCATION: ELEC EQUIPMENT RM C216 → Rm C216	
RATING: 10K A.I.C.	WIRE: 4	SECTION: 1 OF 1	

LOAD DESCRIPTION	CKT BKRS KAIC	CKT BKRS AMP	CKT BKRS POLE	CKT NO.		CKT NO.	CKT BKRS POLE	CKT BKRS AMP	KVA	LOAD DESCRIPTION
EXIST. LOAD CENTER MES	22	30	3	1	A	2	1	20	0.8	EXISTING VENDOR
	25	-	-	3	B	4	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
	25	-	-	5	C	6	1	20	0.0	SPARE (KIOSK)
EXISTING VENDOR	25	20	1	7	A	8	1	20	0.8	EXISTING VENDOR
SPARE	0.8	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	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	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	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	0.8	20	1	23	C	24	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	25	A	26	1	20	0.0	SPARE 1
EXISTING VENDOR	0.8	20	1	27	B	28	1	20	0.0	SPARE 1&2
EXISTING VENDOR	0.8	20	1	29	C	30	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	31	A	32	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	33	B	34	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	35	C	36	-	-	0.0	SPACE

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	11.2 x 50%		5.6 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	**28.7 KVA**	**TOTAL DEMAND KVA**	**23.9 KVA**
		TOTAL DEMAND AMPS	**66.3 AMPS**

CONNECTED LOAD PHASE SUMMARY

PHASE A:	10.1 KVA
PHASE B:	9.7 KVA
PHASE C:	8.9 KVA

NOTES: A. EXISTING PANEL "MESSB" IS FED FROM 120/208V, 3Φ, 4W EXISTING 600A SWBD. "MESSA" LOCATED IN ELEC. EQUIPMENT C216, Breaker ~~CIRCUIT~~ #2,4,6–200/3P (SEE ATTACHED DWG. MA–OF–SLD–E5).

B. ALL EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2–3/4" C. (WIRING FILL >40%).
- 4–1/2" C. (3–WIRING FILL >40% & 1–EMPTY).

ALL EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
- 1–3/4" C. (WIRING FILL >40%).
- 1–1" C. (WIRING FILL >40%).

ALL EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1–4" C. TO TRANSFORMER (WIRING FILL >40%).
- 2–3/4" C. (1–WIRING FILL >40% & 1–EMPTY).
- 1–1/2" EMPTY CONDUIT.
- 2–#12 WIRING.

CONTRACT NO 14-FQ10060-CENI-24

DESIGNED C. MOO 09-14 DATE
DRAWN C. MOO 09-14 DATE
CHECKED S. ENJI 09-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS NUMBER	DESCRIPTION

REVISIONS DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

A Gannett Fleming/Parsons JOINT VENTURE

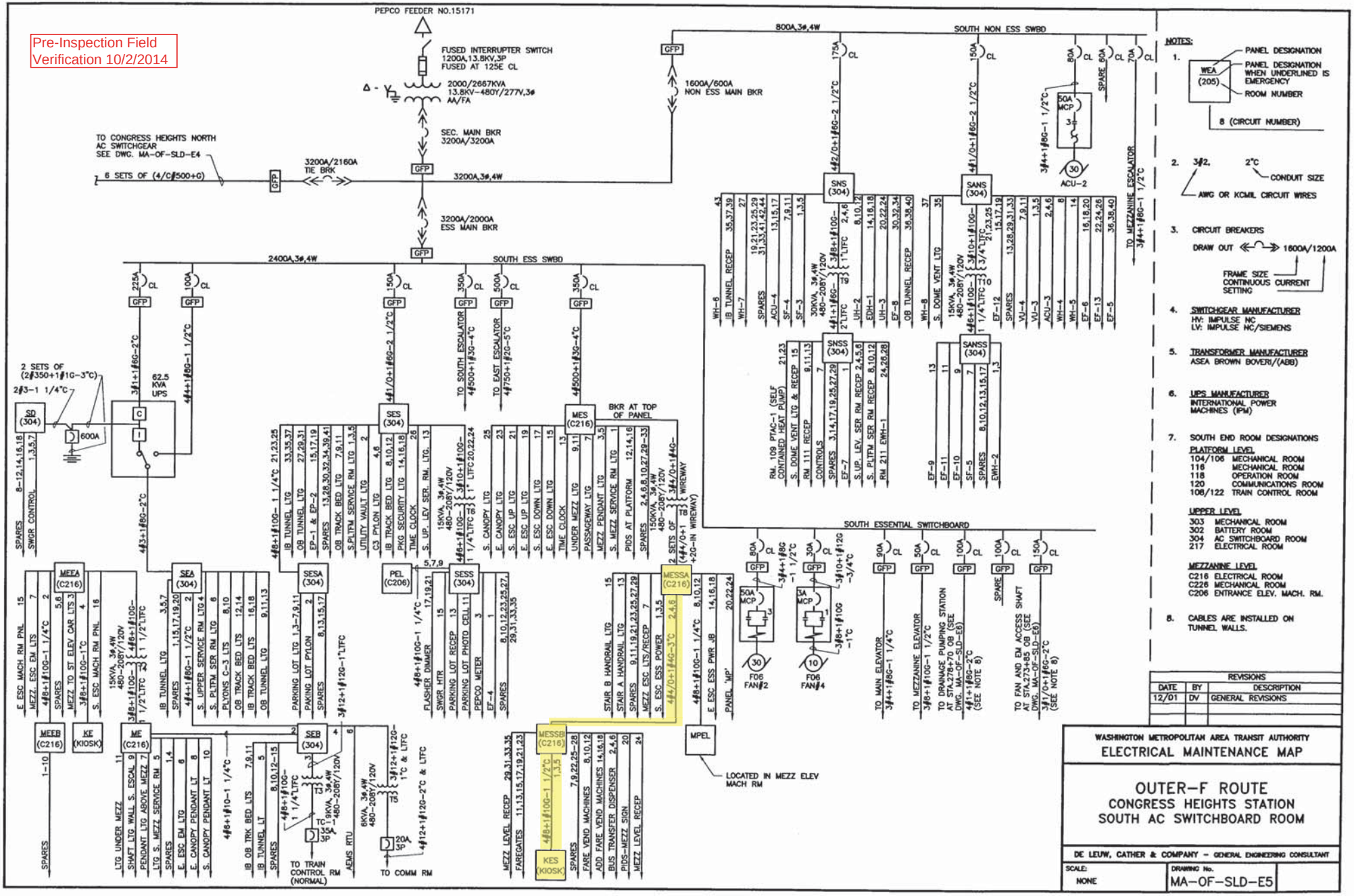
SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
CONGRESS HEIGHTS
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO: F07-E-102

Pre-Inspection Field Verification 10/2/2014



Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/02/2014	**Station Name:** Southern Ave - F08	**Mezzanine #:** 107	**Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
☑	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: Generator Subpanel 2 Source Breaker Name/Number: Breaker #2,4,6 Electrical AFC Panel Name/Number: MESS	Rm 223 Rm 223 Rm C205	
☑	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: SMNT/POWR escorts: HIGH Voltage		
☑	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes.		
☑	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT ☐ COMM / IT ☐ ELES ☐ RAIL ☐ CMNT ☐ Other Access/Support:		Straight shot from AFC Panel through walker duct to Kiosk.
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? NO Identified Conduit/Duct Transition to mezzanine level? YES		All conduits/ducts are on the same level.

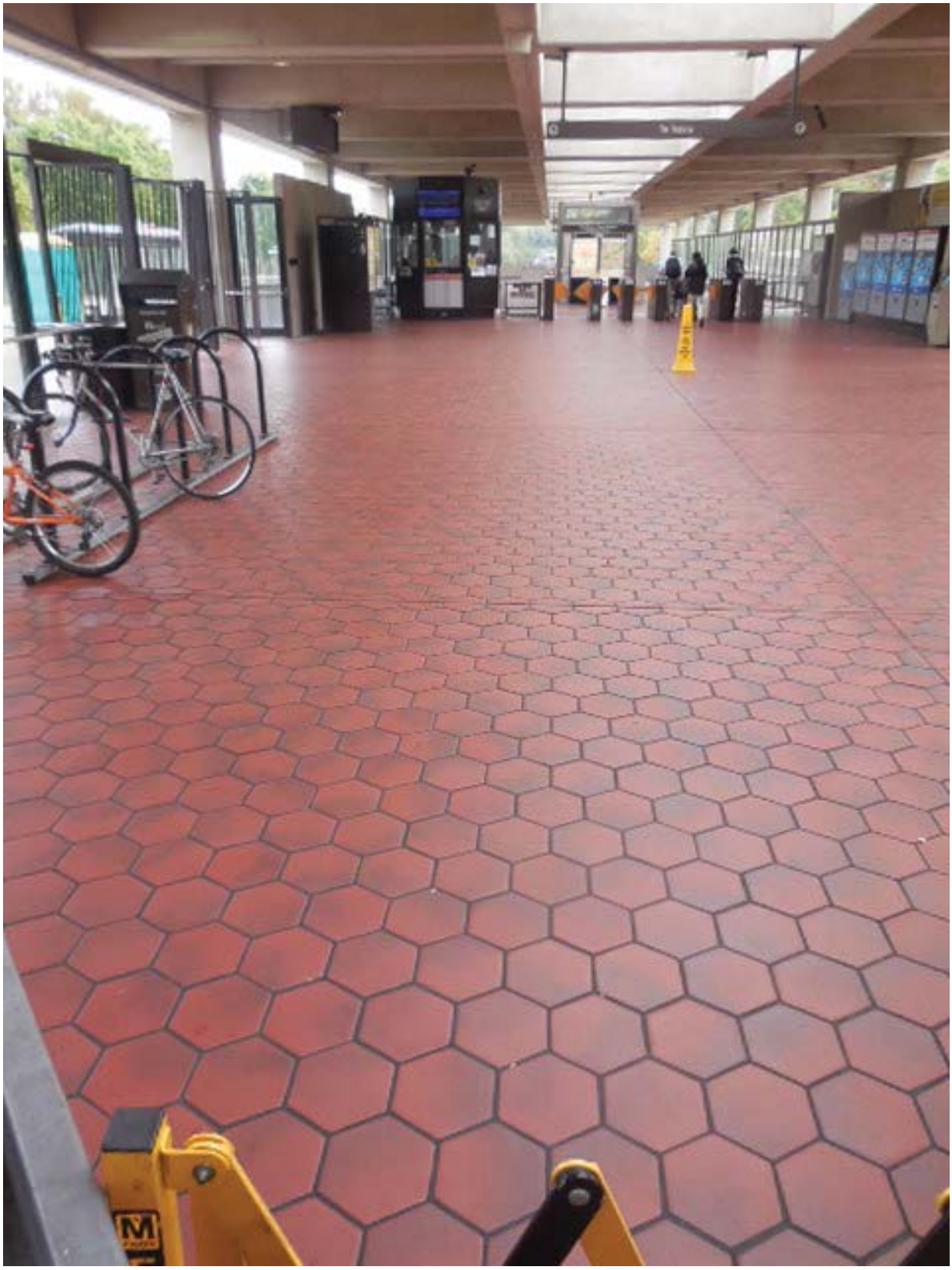
Emergency Power Verification

Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: KE Source Breaker Name/Number: Breaker #9 Panel Name/Number: Emergency Power Faregates	Kiosk Kiosk	

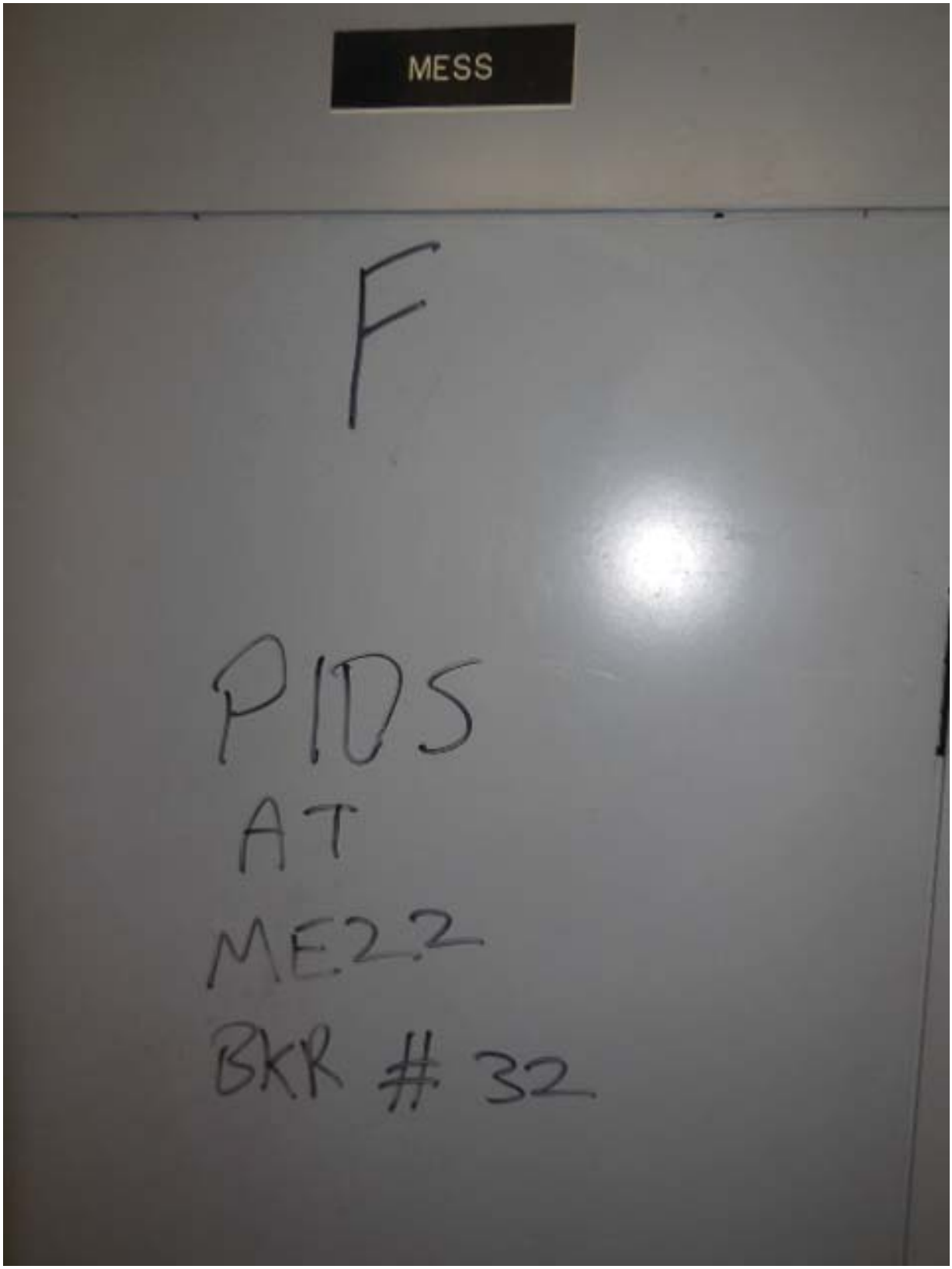
Notes and Discrepancies:

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tanmina Sahoo	
Date:	10/02/2014	

Picture 1: F08 Southern Ave – No handholes from Kiosk to AFC Panel via Mezzanine



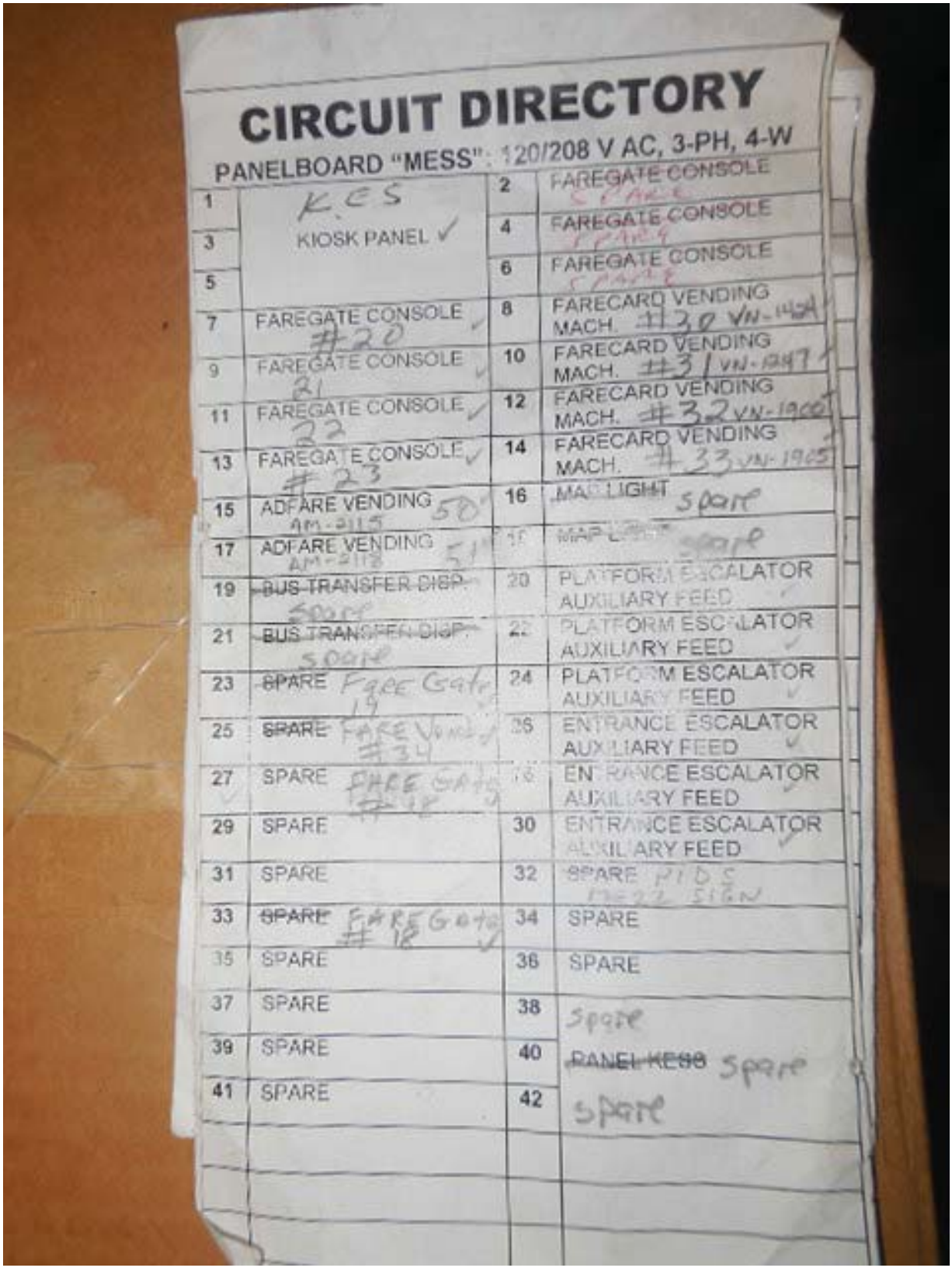
Picture 2: F08 Southern Ave – Panel MESS in Room C205



Picture 3: F08 Southern Ave - Panel MESS in Room C205

Picture 4: F08 Southern Ave – Bottom ducts of Panel MESS in Room C205

Picture 5: F08 Southern Ave - Panel MESS schedule in Room C205



CIRCUIT DIRECTORY

PANELBOARD "MESS": 120/208 V AC, 3-PH, 4-W

1	K.E.S	2	FAREGATE CONSOLE SPARE
3	KIOSK PANEL ✓	4	FAREGATE CONSOLE SPARE
5		6	FAREGATE CONSOLE SPARE
7	FAREGATE CONSOLE #20	8	FARECARD VENDING MACH. #30 VN-1454
9	FAREGATE CONSOLE #21	10	FARECARD VENDING MACH. #31 VN-1947
11	FAREGATE CONSOLE #22	12	FARECARD VENDING MACH. #32 VN-1900
13	FAREGATE CONSOLE #23	14	FARECARD VENDING MACH. #33 VN-1965
15	ADFARE VENDING AM-2115 50	16	MAP LIGHT spare
17	ADFARE VENDING AM-2118 51	18	MAP LIGHT spare
19	~~BUS TRANSFER DISP.~~ spare	20	PLATFORM ESCALATOR AUXILIARY FEED
21	~~BUS TRANSFER DISP.~~ spare	22	PLATFORM ESCALATOR AUXILIARY FEED
23	~~SPARE~~ FARE Gate #19	24	PLATFORM ESCALATOR AUXILIARY FEED
25	~~SPARE~~ FARE Vend #34	26	ENTRANCE ESCALATOR AUXILIARY FEED
27	SPARE FARE GATE #18	28	ENTRANCE ESCALATOR AUXILIARY FEED
29	SPARE	30	ENTRANCE ESCALATOR AUXILIARY FEED
31	SPARE	32	~~SPARE~~ PIDS M22 SIGN
33	~~SPARE~~ FARE Gate #18	34	SPARE
35	SPARE	36	SPARE
37	SPARE	38	Spare
39	SPARE	40	~~PANEL KESB~~ Spare
41	SPARE	42	Spare

Picture 6: F08 Southern Ave – Generator Sub-panel 2 Circuits 2,4,6 in Room 223

Pre-Inspection Field Verification 10/2/2014

EXISTING PANEL "MESS"

AMPERES: 250	VOLTS: 120/208			MOUNTING: SURFACE						
MAINS: 250A MCB	PHASE: 3			LOCATION: ELEC. ROOM C205						
RATING: 10K AIC	WIRE: 4			SECTION 1 OF 1						
		CKT BKRS		CKT.		CKT.	CKT BKRS			
LOAD DESCRIPTION	KVA	AMP	POLE	NO.		NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXIST. LOAD CENTER "KES"	2.9	30	3	1	A - -	2	3	30	0.0	SPARE
	2.5	-	-	3	- B -	4	-	-	0.0	
	2.5	-	-	5	- - C	6	-	-	0.0	
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	0.8	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	0.8	SPARE
SPARE	0.0	20	1	19	A - -	20	3	30	1.0	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	-	-	1.0	
EXISTING VENDOR	0.8	20	1	23	- - C	24	-	-	1.0	
EXISTING VENDOR	0.8	20	1	25	A - -	26	3	30	1.0	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	27	- B -	28	-	-	1.0	
EXISTING VENDOR	0.8	20	1	29	- - C	30	-	-	1.0	
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
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	35	- - C	36	1	20	0.0	SPARE
1&2 SPARE (KIOSK)	0.0	20	1	37	A - -	38	1	20	0.0	SPARE
SPARE	0.0	20	1	39	- B -	40	1	20	0.0	SPARE
SPARE	0.0	20	1	41	- - C	42	1	20	0.0	SPARE

NOTES. 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%		0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%		10.0 KVA
RECEPTACLES	13.2 x 50%		6.6 KVA
MISC. APPLIANCES	0.0 x 100%		0.0 KVA
LARGEST MOTOR	0.0 x 125%		0.0 KVA
MOTORS	0.0 x 100%		0.0 KVA
HEAT	3.0 x 125%		3.8 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	30.7 KVA	TOTAL DEMAND KVA	24.9 KVA
		TOTAL DEMAND AMPS	69.0 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	10.5 KVA
PHASE B:	10.1 KVA
PHASE C:	10.1 KVA

Generator

NOTES: A. EXISTING PANEL "MESS" IS FED FROM 277/480V, 3Φ, 4W EXISTING "GENERAL SUBPANEL 2" LOCATED IN AC SWBD ROOM #223, ~~CIRCUIT~~ Breaker #2,4,6-100/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MA-OF-SLD-E7).

B. ALL EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2-6" x 1 1/2" FLOOR DUCTS (WIRING FILL >40%).
- 1-1/2" C. (WIRING FILL >40%).

ALL EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-1" C. (WIRING FILL >40%).
- 1-1/2" C. (WIRING FILL >40%).
- 1- #12 WIRING.

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

CONTRACT NO: 14-FQ10060-CENI-24

DESIGNED C. NDO 09-14 DATE
DRAWN C. NDO 09-14 DATE
CHECKED B. IDLISI 09-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

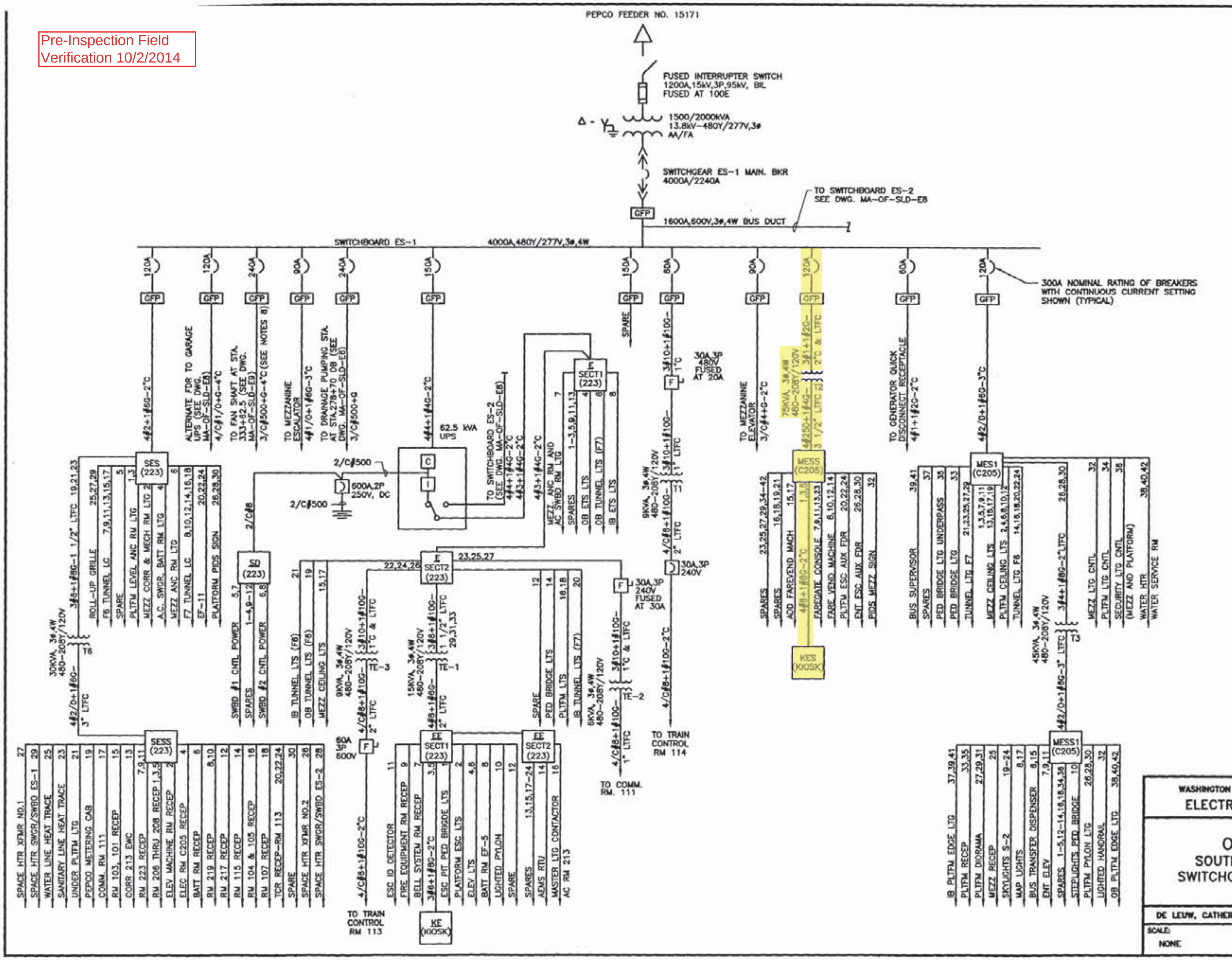
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
SOUTHERN AVENUE
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO.: F08-E-102

Pre-Inspection Field Verification 10/2/2014



NOTES:

1. WEA (205) — PANEL DESIGNATION; PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY; ROOM NUMBER; 8 (CIRCUIT NUMBER)

2. 3#2, 2"C — CONDUIT SIZE; AWG OR KCMIL CIRCUIT WIRES

3. CIRCUIT BREAKERS
DRAW OUT 1600A/1200A
FRAME SIZE CONTINUOUS CURRENT SETTING

4. SWITCHGEAR MANUFACTURER
HV: IMPULSE NC
LV: IMPULSE NC/SIEMENS

5. TRANSFORMER MANUFACTURER
ASEA BROWN BOVERI (ABB.)

6. UPS MANUFACTURER
INTERNATIONAL POWER MACHINES (IPM)

7. STATION ROOM DESIGNATIONS
PLATFORM LEVEL
115 MECHANICAL ROOM
113 TRAIN CONTROL ROOM
111 COMMUNICATIONS ROOM
109 OPERATIONS ROOM
MEZZANINE LEVEL
219 MECHANICAL ROOM
221 BATTERY ROOM
223 AC SWITCHBOARD ROOM
C205 ELECTRICAL ROOM

8. CABLES ARE INSTALLED ON TUNNEL WALLS.

REVISIONS		
DATE	BY	DESCRIPTION
12/01	DV	GENERAL REVISIONS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

OUTER-F ROUTE
SOUTHERN AVENUE STATION
SWITCHGEAR/SWITCHBOARD ES-1

DE LEUW, CATHER & COMPANY - GENERAL ENGINEERING CONSULTANT

SCALE: NONE
DRAWING No. MA-OF-SLD-E7