Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/30/2014	**Station Name:** New Carrollton - D13	**Mezzanine #:** 068	**Completed By:** Meghan Powell

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: DP-NE Source Breaker Name/Number: Breaker #3 Electrical AFC Panel Name/Number: LP-F	Rm 211 Rm 211 Rm C106	Rm C106 is inside of Rm C105 (Mezzanine level). Rm 211 is on wayside of track 2.
☑	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 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. YES (see notes)		LP-EM; LP-E turned off from main breaker on LP-E.
☑	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		Run layout: Ducts from bottom of AFC panel into floor; 1 plate cover; 1 manhole to kiosk (3 part run).

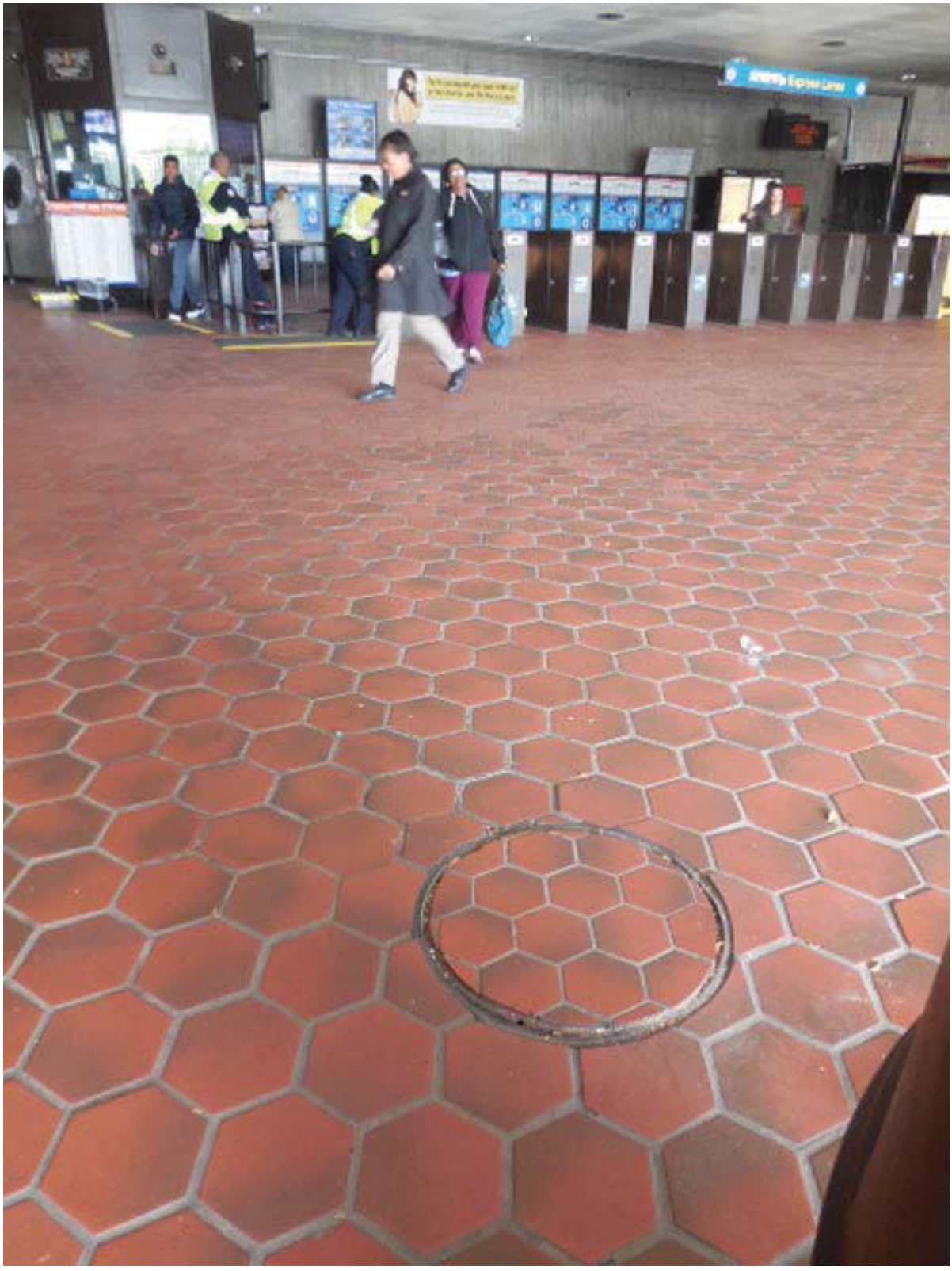
Emergency Power Verification

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: LP-E Source Breaker Name/Number: Main breaker from LP-EM Panel Name/Number: No name on panel	Rm C106 Rm C106 Kiosk	Breaker #7 can also be used to shut off emergency power to Kiosk, but main breaker from LP-EM is still required for shared trough.

Notes and Discrepancies: Disconnect switch below LP-EM is not connected to Panel LP-F, LP-EM, or LP-E.

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:		
Signature:		
Date:		

Picture 1: D13 New Carrollton – Handholes in Mezzanine



Picture 2: D13 New Carrollton – Steel plate on floor in Room C105

Picture 3: D13 New Carrollton – Emergency Panel in Kiosk

Picture 4: D13 New Carrollton – Source Panel DP-NE in Room 211

Picture 5: D13 New Carrollton – Source Panel DP-NE Breaker #3 in Room 211

Picture 6: D13 New Carrollton – Panel LP-E in Room C106

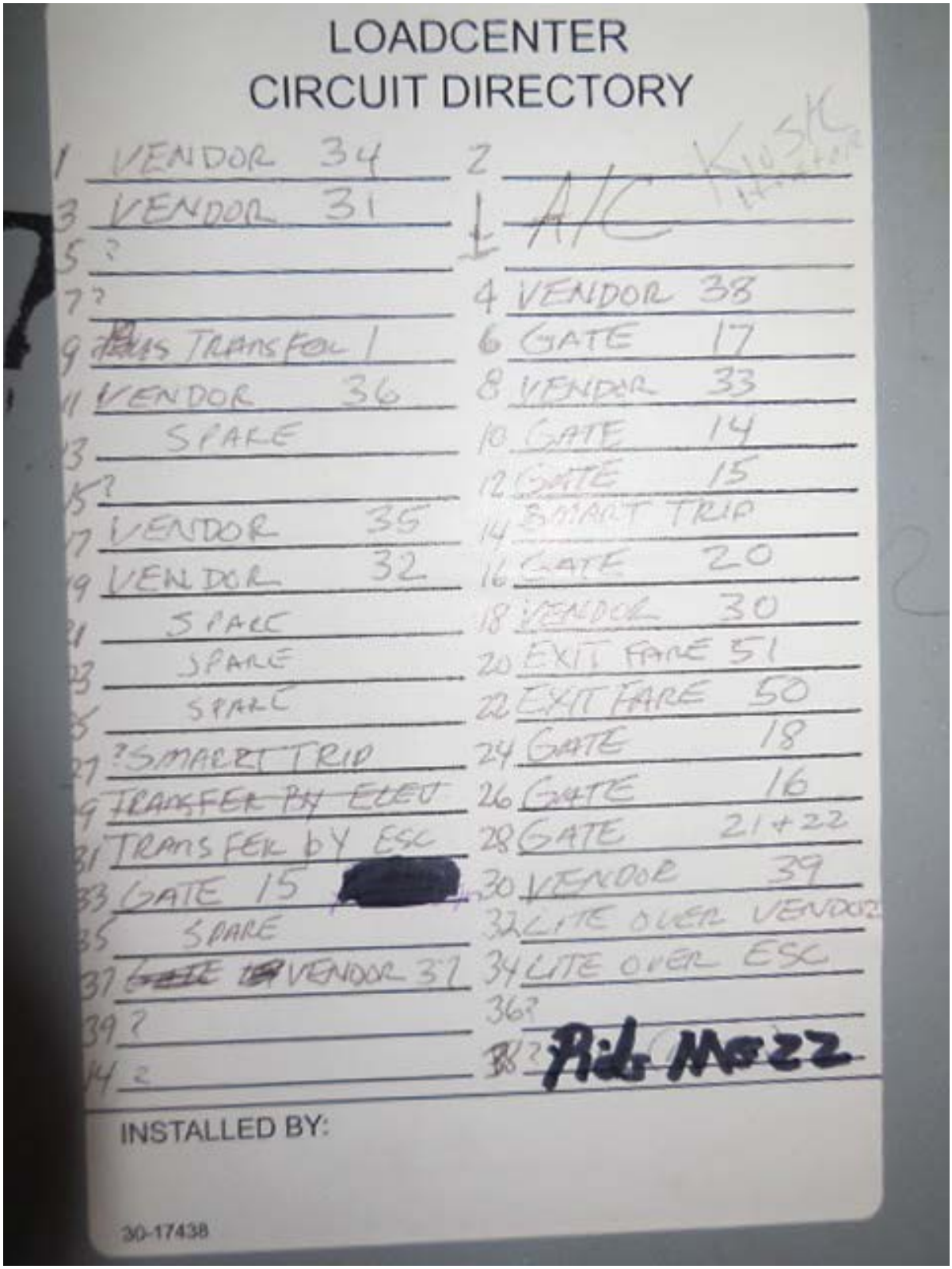
Picture 7: D13 New Carrollton – Panel LP-EM in Room C106

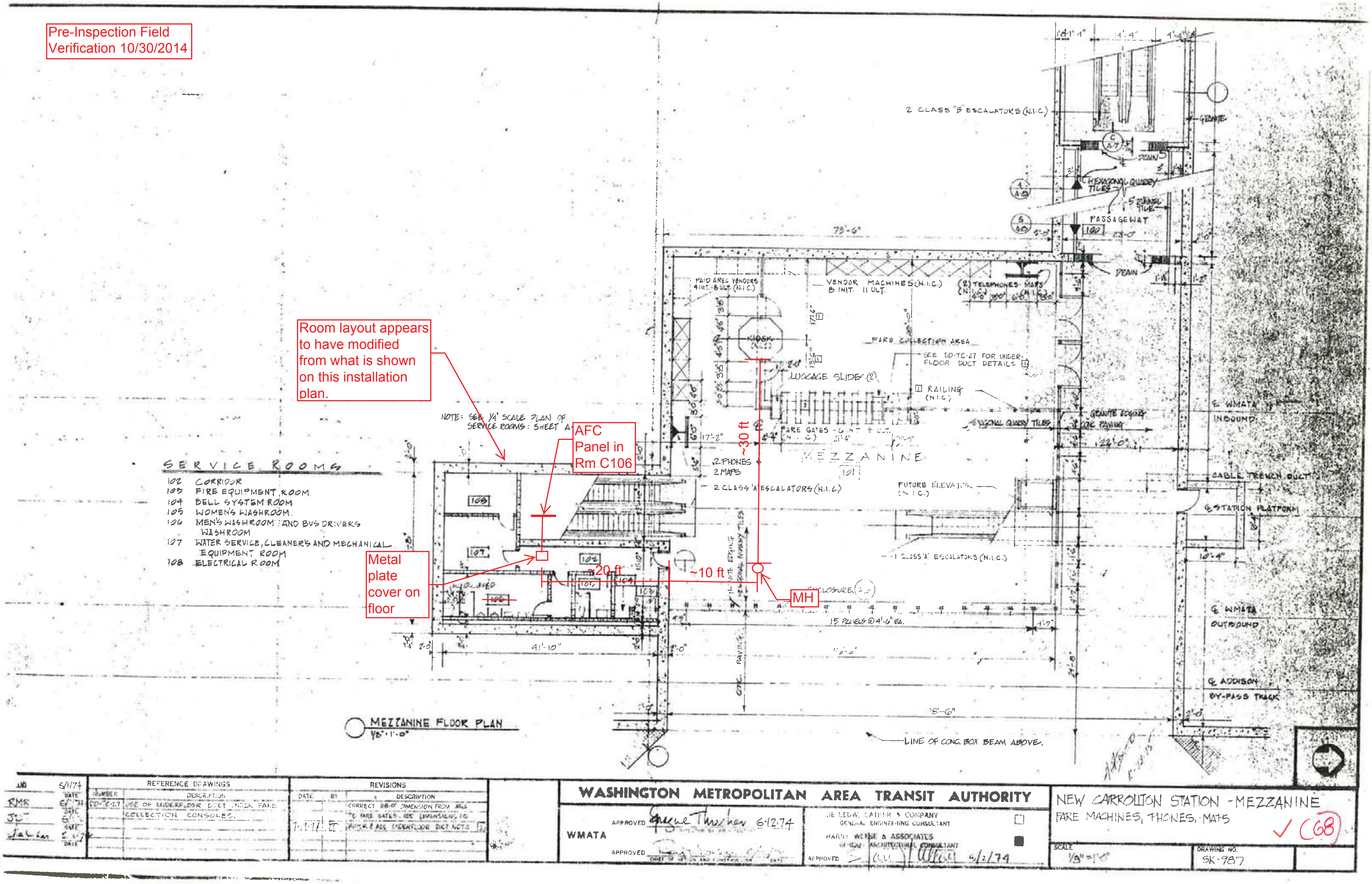
Picture 8: D13 New Carrollton – Common trough for Panels LP-F, LP-E and LP-EM in Room C106

Picture 9: D13 New Carrollton – Panel LP-F in Room C106

Picture 10: D13 New Carrollton – Panel LP-F in Room C106

Picture 11: D13 New Carrollton – Panel LP-F Schedule in Room C106




Pre-Inspection Field Verification 10/30/2014
Room layout appears to have modified from what is shown on this installation plan.
AFC Panel in Rm C106
Metal plate cover on floor
~30 ft
~20 ft
~10 ft
MH
2 CLASS "B" ESCALATORS (N.I.C.)
GRANITE
DRAIN
HEXAGONAL QUARRY TILES
PASSAGEWAY
100
73'-6"
VENDOR MACHINES (N.I.C.)
(2) TELEPHONES - MAPS
KIOSK
FARE COLLECTION AREA
SEE DD-TC-27 FOR UNDER-FLOOR DUCT DETAILS
LUGGAGE SLIDES (2)
RAILING (N.I.C.)
FARE GATES
MEZZANINE
101
2 PHONES
2 MAPS
2 CLASS 'A' ESCALATORS (N.I.C.)
FUTURE ELEVATOR (N.I.C.)
1 CLASS 'A' ESCALATORS (N.I.C.)
15 PANELS @ 4'-6" EA.
NOTE: SEE 1/4" SCALE PLAN OF SERVICE ROOMS: SHEET A-
SERVICE ROOMS
102 CORRIDOR
103 FIRE EQUIPMENT ROOM
104 BELL SYSTEM ROOM
105 WOMEN'S WASHROOM
106 MEN'S WASHROOM AND BUS DRIVERS WASHROOM
107 WATER SERVICE, CLEANER'S AND MECHANICAL EQUIPMENT ROOM
108 ELECTRICAL ROOM
41'-10"
MEZZANINE FLOOR PLAN
1/8" = 1'-0"
LINE OF CONC. BOX BEAM ABOVE.
℄ WMATA INBOUND
CABLE TRENCH DUCT
℄ STATION PLATFORM
℄ WMATA OUTBOUND
℄ ADDISON BY-PASS TRACK
REFERENCE DRAWINGS
REVISIONS
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
WMATA
APPROVED
DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT
HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT
NEW CARROLLTON STATION - MEZZANINE
FARE MACHINES, PHONES, MAPS
68
SCALE 1/8" = 1'-0"
DRAWING NO. SK-987

Pre-Inspection Field Verification 10/30/2014

Rm C106 inside Rm C105

EXISTING PANEL "LP-F"

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 225A MCB	PHASE: 3	LOCATION: ELEC EQUIPMENT ROOM C106	
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	3	30	2.9	EXIST. LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	3	- B -	4	-	-	2.5	
EXISTING VENDOR	0.8	20	1	5	- - C	6	-	-	2.5	
EXISTING VENDOR	0.8	20	1	7	A - -	8	1	20	0.8	EXISTING VENDOR
SPARE	0.0	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
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	0.8	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
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
1&2 SPARE (KIOSK)	0.0	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	25	A - -	26	1	20	0.8	EXISTING VENDOR
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
SPARE	0.0	20	1	35	- - C	36	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	37	A - -	38	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	39	- B -	40	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	41	- - C	42	1	20	0.8	EXISTING VENDOR

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	17.6 x 50%		8.8 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	35.1 KVA	TOTAL DEMAND KVA	27.1 KVA
		TOTAL DEMAND AMPS	75.1 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	11.7 KVA		
PHASE B:	12.1 KVA		
PHASE C:	11.3 KVA		

NOTES: A. EXISTING PANEL "LP-F" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "DP-NE" LOCATED IN AC SWBD BATTERY RM. 211, CIRCUIT #3-225/3P VIA 150KVA TRANSFORMER.

B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-8"x 8" WIRE TROUGH (WIRING FILL >40%).

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

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NGO 09-14 DATE
DRAWN C. NGO 09-14 DATE
CHECKED B. KHUN 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

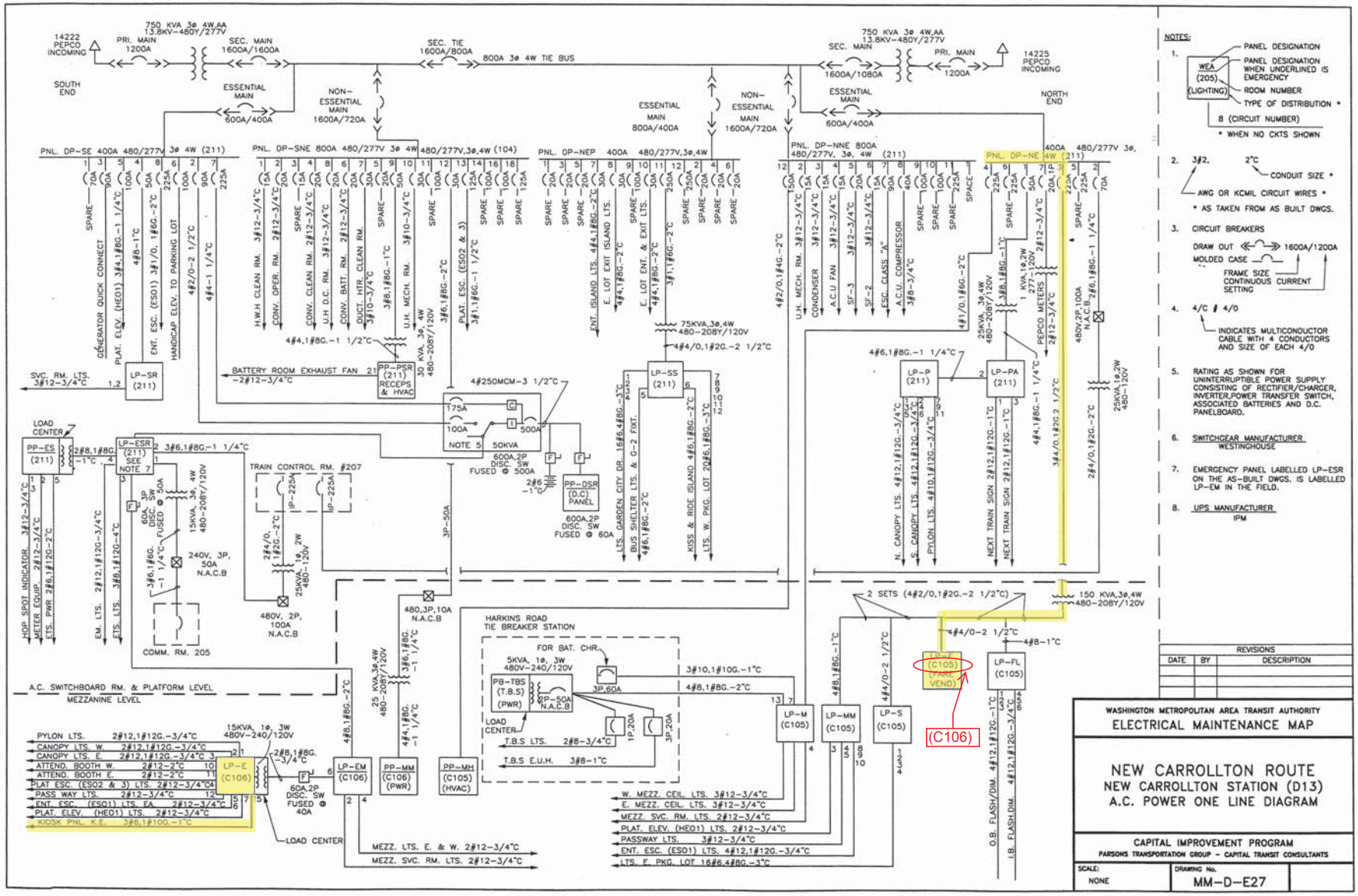
SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS

NEW CARROLLTON
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO: D13-E-102



Pre-Inspection Field Verification 10/30/2014

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/06/2014	**Station Name:** Benning Road - G01	**Mezzanine #:** 090	**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: West AC Substation SWBD/WA Source Breaker Name/Number: "Panel F 200A" (Breaker #9) Electrical AFC Panel Name/Number: Panel F	Rm 203 Rm 203 Rm 102	AC SWBD Room 203 is Track 2 wayside. SWBD is listed on as-built as WA, but in field as West AC Substation SWBD.
☑	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		Conduit/ducts on two levels. Run is overhead conduit. Power run from Kiosk to AFC Panel is approx. 80'.

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: EER Source Breaker Name/Number: Breaker #8 Panel Name/Number: Kiosk Emergency Panel	Rm 112 Rm 112 Kiosk	

Notes and Discrepancies:

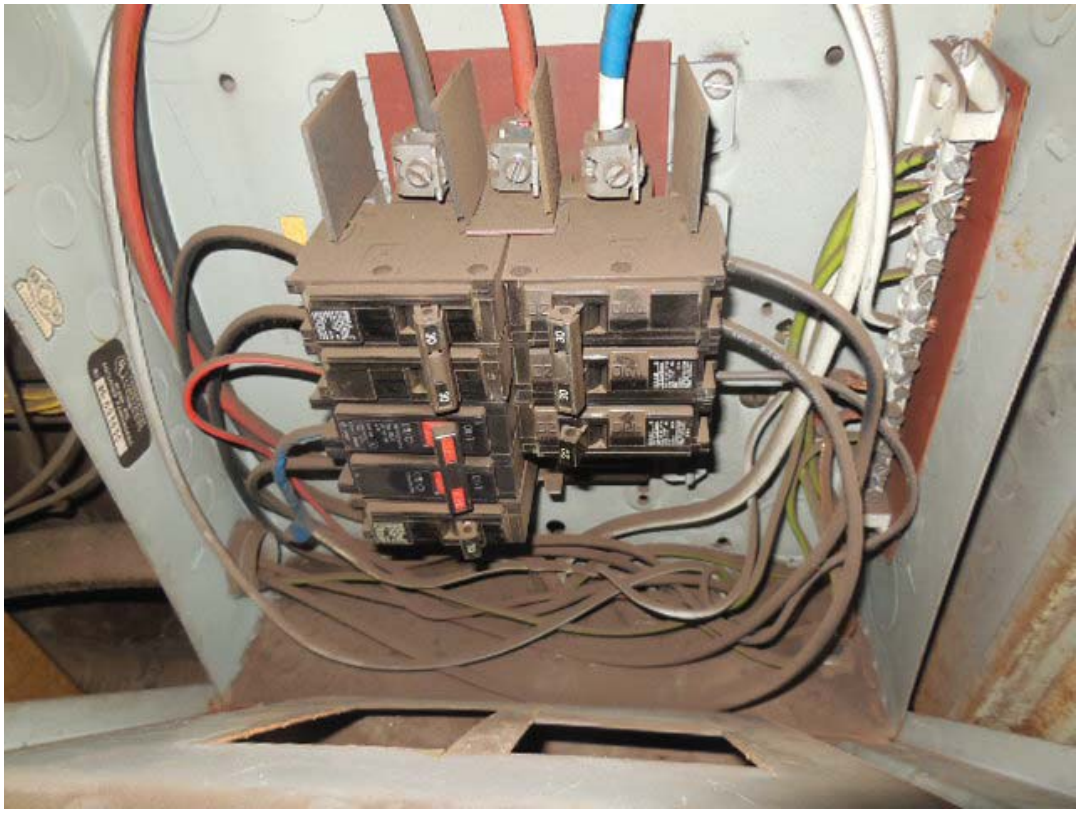
Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmina Sahoo	
Date:	11/06/2014	

Picture 1: G01 Benning Road – Manhole & handhole in Mezzanine

Picture 2: G01 Benning Road – Manhole in Mezzanine

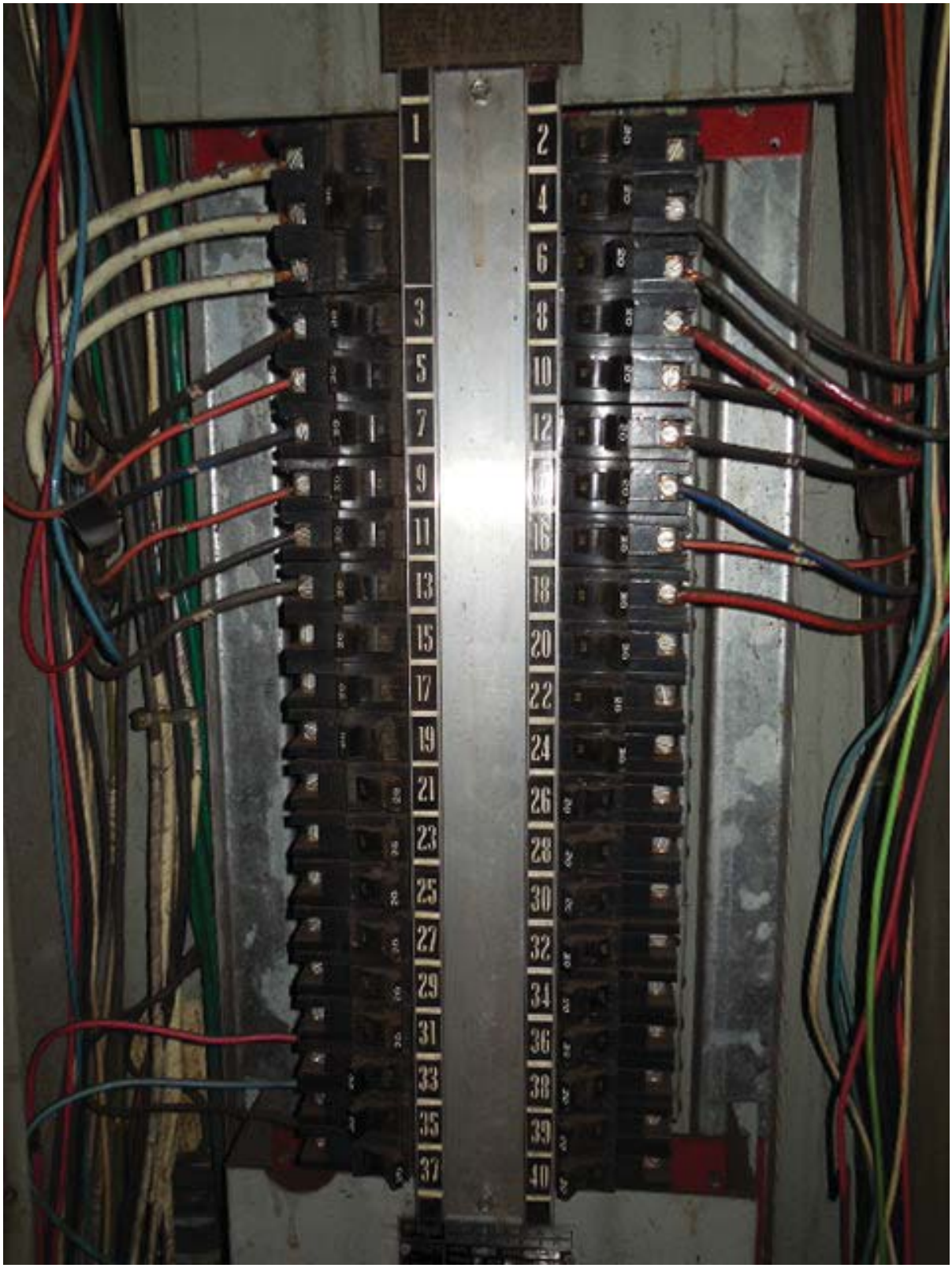
Picture 3: G01 Benning Road – Emergency panels in Kiosk

Pictures 4 & 5: G01 Benning Road – Emergency panel in Kiosk

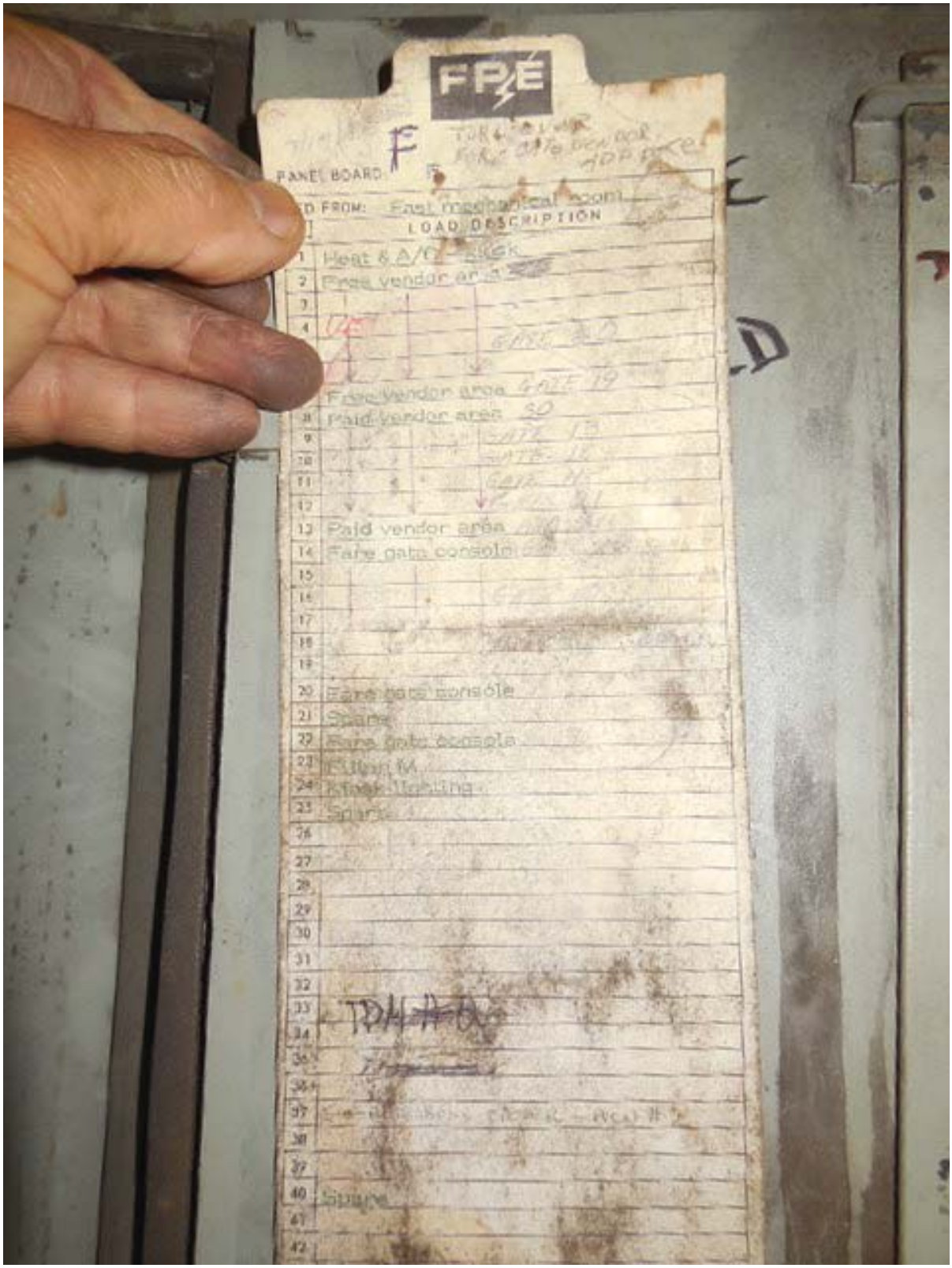


Picture 6: G01 Benning Road – AFC Panel F in Room 102

Picture 7: G01 Benning Road – AFC Panel F in Room 102

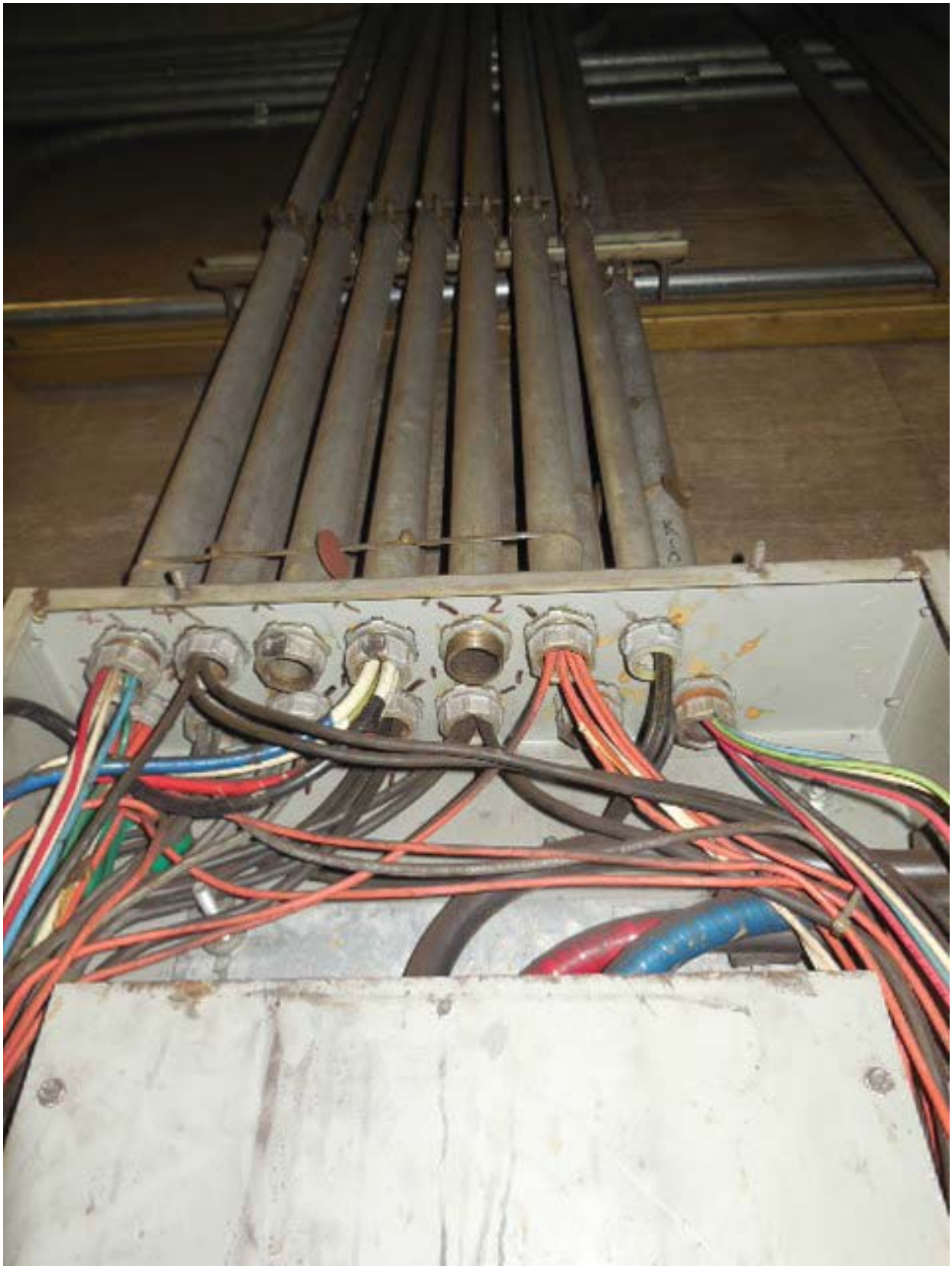


Picture 8: G01 Benning Road – AFC Panel F in Room 102 – Panel schedule



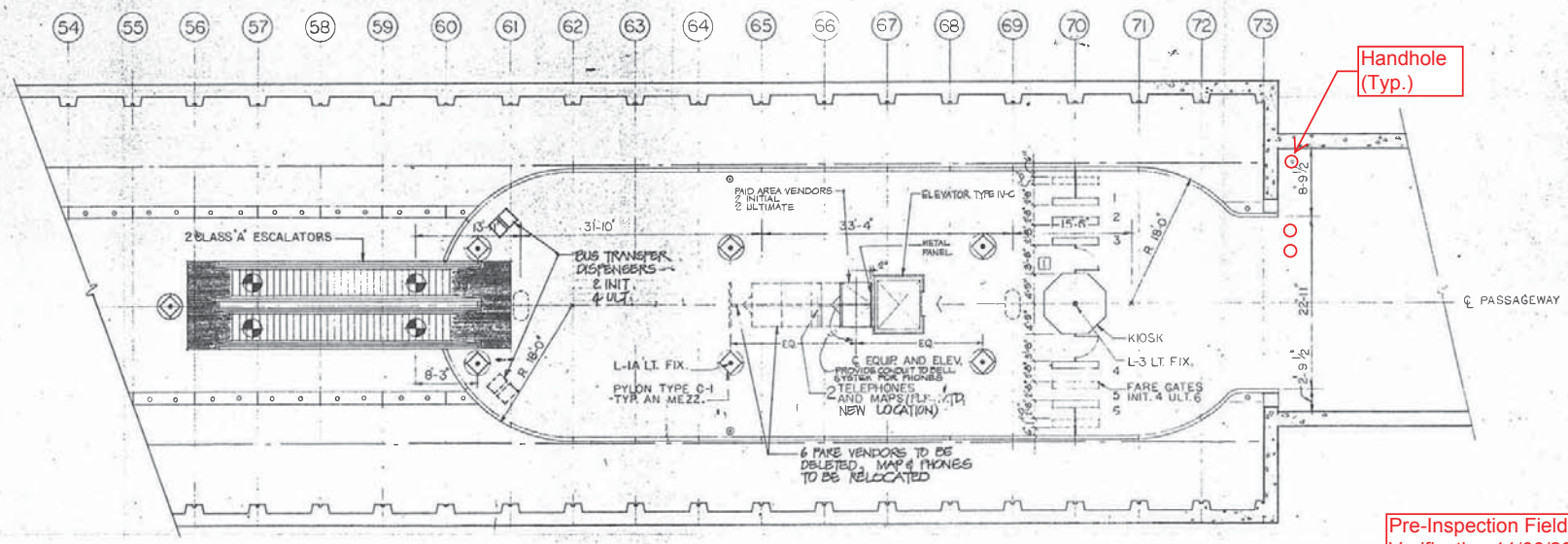
Picture 9: G01 Benning Road – AFC Panel F in Room 102 – Conduits above panel

Picture 10: G01 Benning Road – AFC Panel F in Room 102 – Conduits above panel



Picture 11: G01 Benning Road – West AC Substation Switchboard in Room 203

Picture 12: G01 Benning Road – West AC Substation Switchboard in Room 203 – Circuit 9 for AFC Panel F



DESIGNED H.W.A. DATE
DRAWN M.L.A. DATE
CHECKED DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

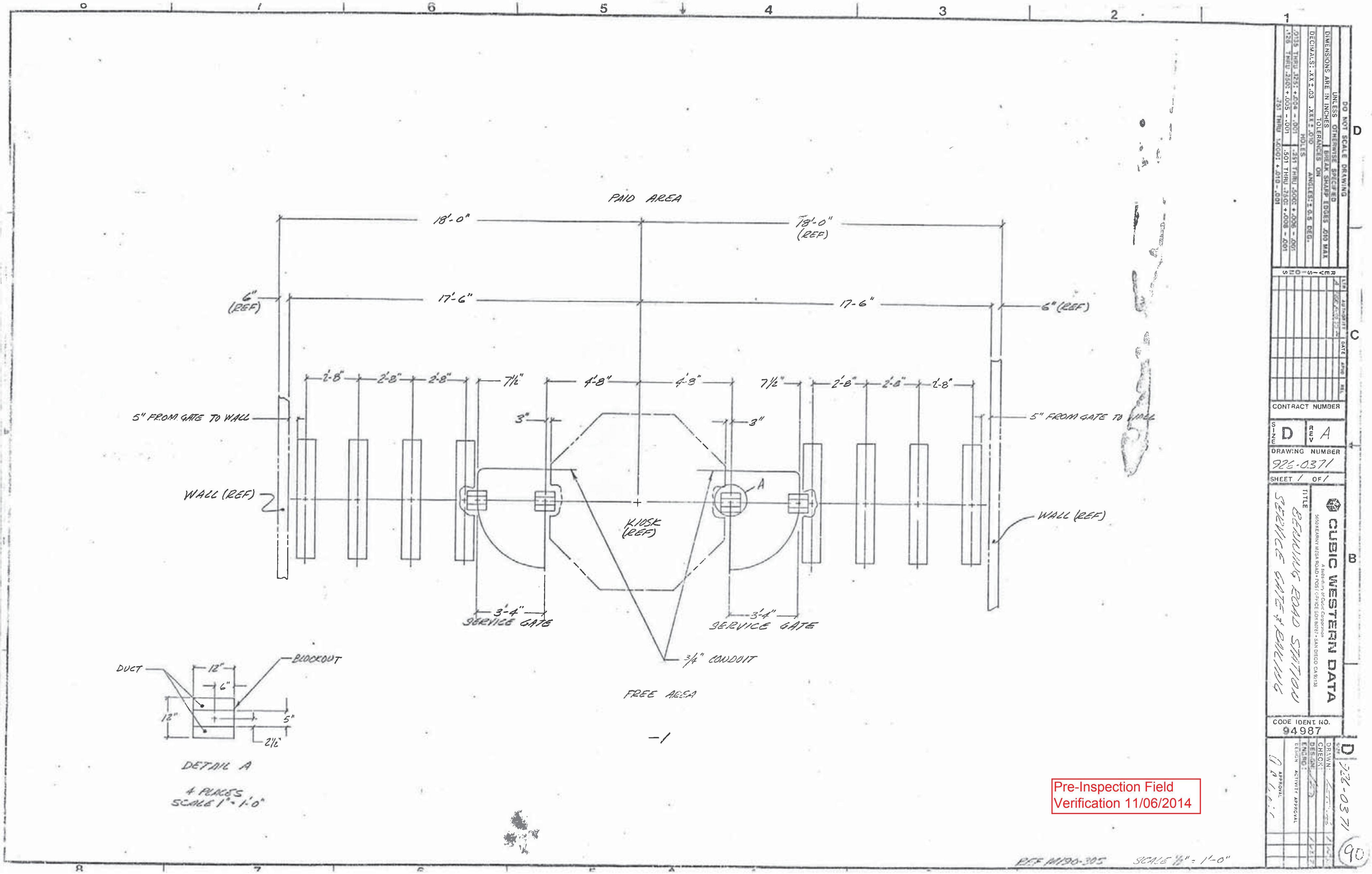
WMATA
APPROVED _____ DIRECTOR OF ARCHITECTURE
APPROVED

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

BENNING ROAD STATION
FARE VENDORS, MAPS, PHONES and BUS TRANSFER DISPENSERS

SCALE 1" = 2 0 2 4 8 10 DRAWING NO. 40


PAID AREA
18'-0"
18'-0" (REF)
6" (REF)
17'-6"
17-6"
6" (REF)
2'-8"
2'-8"
2'-8"
7½"
4'-8"
4'-8"
7½"
2'-8"
2'-8"
2'-8"
5" FROM GATE TO WALL
5" FROM GATE TO WALL
3"
3"
WALL (REF)
A
KIOSK (REF)
WALL (REF)
3'-4"
SERVICE GATE
3'-4"
SERVICE GATE
3/4" CONDUIT
FREE AREA
DUCT
12"
6"
BLOCKOUT
12"
5"
2½"
DETAIL A
4 PLACES
SCALE 1" = 1'-0"
-1
REF M190-305
SCALE 1/8" = 1'-0"
Pre-Inspection Field
Verification 11/06/2014
DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
BREAK SHARP EDGES .010 MAX
TOLERANCES ON
DECIMALS: .XX ± .03 .XXX ± .010
ANGLES: ± 0.5 DEG.
HOLES
.0135 THRU .125: +.004 -.001
.251 THRU .500: +.006 -.001
.126 THRU .250: +.005 -.001
.501 THRU .750: +.008 -.001
.751 THRU 1.000: +.010 -.001
REVISIONS
LTR
AUTHORITY
DATE
APVD
REL
CONTRACT NUMBER
SIZE D
REV A
DRAWING NUMBER
926-0371
SHEET 1 OF 1
CUBIC WESTERN DATA
A subsidiary of Cubic Corporation
5650 KEARNY MESA ROAD • POST OFFICE BOX 80787 • SAN DIEGO CA 92138
TITLE
BENNING ROAD STATION
SERVICE GATE & RAILING
CODE IDENT NO.
94987
DRAWN:
CHECK:
DESIGN:
ENGRG:
DESIGN ACTIVITY APPROVAL
APPROVAL
D 926-0371
90

Pre-Inspection Field Verification 11/06/2014

EXISTING PANEL "F"

AMPERES: 400	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 300A MCB	PHASE: 3	LOCATION: MECHANICAL EQUIPMENT ROOM 102	
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. KIOSK LOAD CENTER "KES"	3.3	30	3	1	A	2	1	20	0.0	SPARE
	2.5	-	-	3	B	4	1	20	0.8	EXISTING VENDOR
	2.5	-	-	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
1 NEW KIOPSK RECEPT. (IT & NEPP)	0.8	20	1	19	A	20	1	20	0.8	EXISTING VENDOR
1&2 SPARE (KIOSK)	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
SPARE	0.0	20	1	25	A	26	1	20	0.0	SPARE
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	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
EXISTING VENDOR	0.8	20	1	37	A	38	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	39	B	40	1	20	0.0	SPARE
EXISTING VENDOR	0.8	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	6.0 x 50%		3.0 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	**23.5 KVA**	**TOTAL DEMAND KVA**	**21.3 KVA**
		TOTAL DEMAND AMPS	**59.0 AMPS**
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	8.9 KVA		
PHASE B:	7.3 KVA		
PHASE C:	6.5 KVA		

NOTES: A. EXISTING PANEL "F" IS FED FROM 277/480V, 3Ø, 4W EXISTING WEST AC SWBD "WA" LOCATED IN AC SWBD BATTERY RM. 203, CIRCUIT #9-200/3P VIA 75KVA TRANSFORMER (SEE ATTACHED MM-G-E06).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 14-3/4" C. (3-EMPTY CONDUIT & 11-WIRING FILL >40%).

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. NGO 09-14 DATE
DRAWN C. NGO 09-14 DATE
CHECKED B. KIM 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 _____

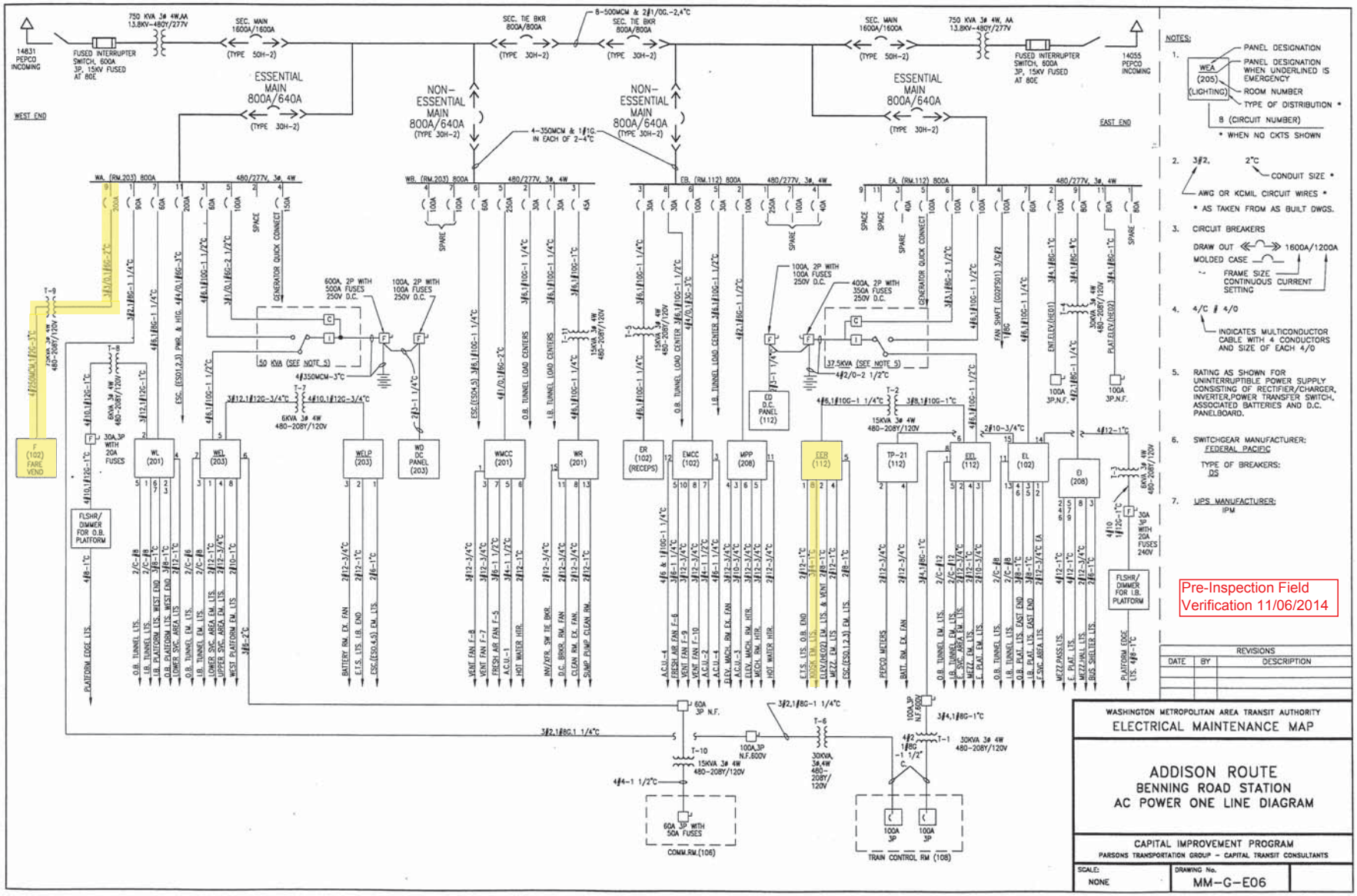
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE

DRAWING NO.: G01-E-102



NOTES:

1. WEA (205) (LIGHTING)
   - PANEL DESIGNATION
   - PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
   - ROOM NUMBER
   - TYPE OF DISTRIBUTION *
   - 8 (CIRCUIT NUMBER)
   - * WHEN NO CKTS SHOWN
2. 3#2, 2"C — CONDUIT SIZE * — AWG OR KCMIL CIRCUIT WIRES * — * AS TAKEN FROM AS BUILT DWGS.
3. CIRCUIT BREAKERS — DRAW OUT / MOLDED CASE — 1600A/1200A — FRAME SIZE CONTINUOUS CURRENT SETTING
4. 4/C # 4/0 — INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTORS AND SIZE OF EACH 4/0
5. RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER/CHARGER, INVERTER,POWER TRANSFER SWITCH, ASSOCIATED BATTERIES AND D.C. PANELBOARD.
6. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
   TYPE OF BREAKERS: DS
7. UPS MANUFACTURER: IPM

Pre-Inspection Field Verification 11/06/2014

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

ADDISON ROUTE
BENNING ROAD STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE:	DRAWING No.
NONE	MM-G-E06

O:\ELECT\NewMaintMap\G-Route\MM-G-E06.dwg Wed Jun 21 20:10:22 2000 R.M.

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/06/2014	**Station Name:** Capitol Heights - G02	**Mezzanine #:** 091	**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: MPOE Source Breaker Name/Number: Breaker #10 Electrical AFC Panel Name/Number: MF	Rm 206 Rm 206 Rm 206	S.O. Request: Breaker #10 on Panel MPOE Breaker #6 on Panel MPONE Breaker #6 on Panel M Breaker #14 on Panel WE
☑	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. YES (see notes)		Panels MF, MM, MA, MEA Emergency power share common under floor trench.
☑	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. Power run from Kiosk to AFC Panel is approx. 90'. Two pairs of handholes on mezzanine.

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: MM; MEA Emergency Power Source Breaker Name/Number: Breaker #6; Breaker #9,11 Panel Name/Number: KE (Kiosk Emergency Panel)	Rm 206 Rm 206 Kiosk	Breaker #6 on Panel MM de-energizes Kiosk Panel; Breaker #9,11 on Panel MEA Emergency Power de-energizes Kiosk Panel KE (Emergency Power).

Notes and Discrepancies: Panel KE (Kiosk Emergency Panel) located in Kiosk, Breaker #8 de-energizes emergency power to faregates.

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tinomina Sahoo	
Date:	11/06/2014	

Pictures 1&2: G02 Capitol Heights – Handholes in mezzanine

Picture 3: G02 Capitol Heights – Emergency panels in Kiosk

Pictures 4&5: G02 Capitol Heights – Emergency panel in Kiosk

Picture 6: G02 Capitol Heights – AFC Panel MF in room 206

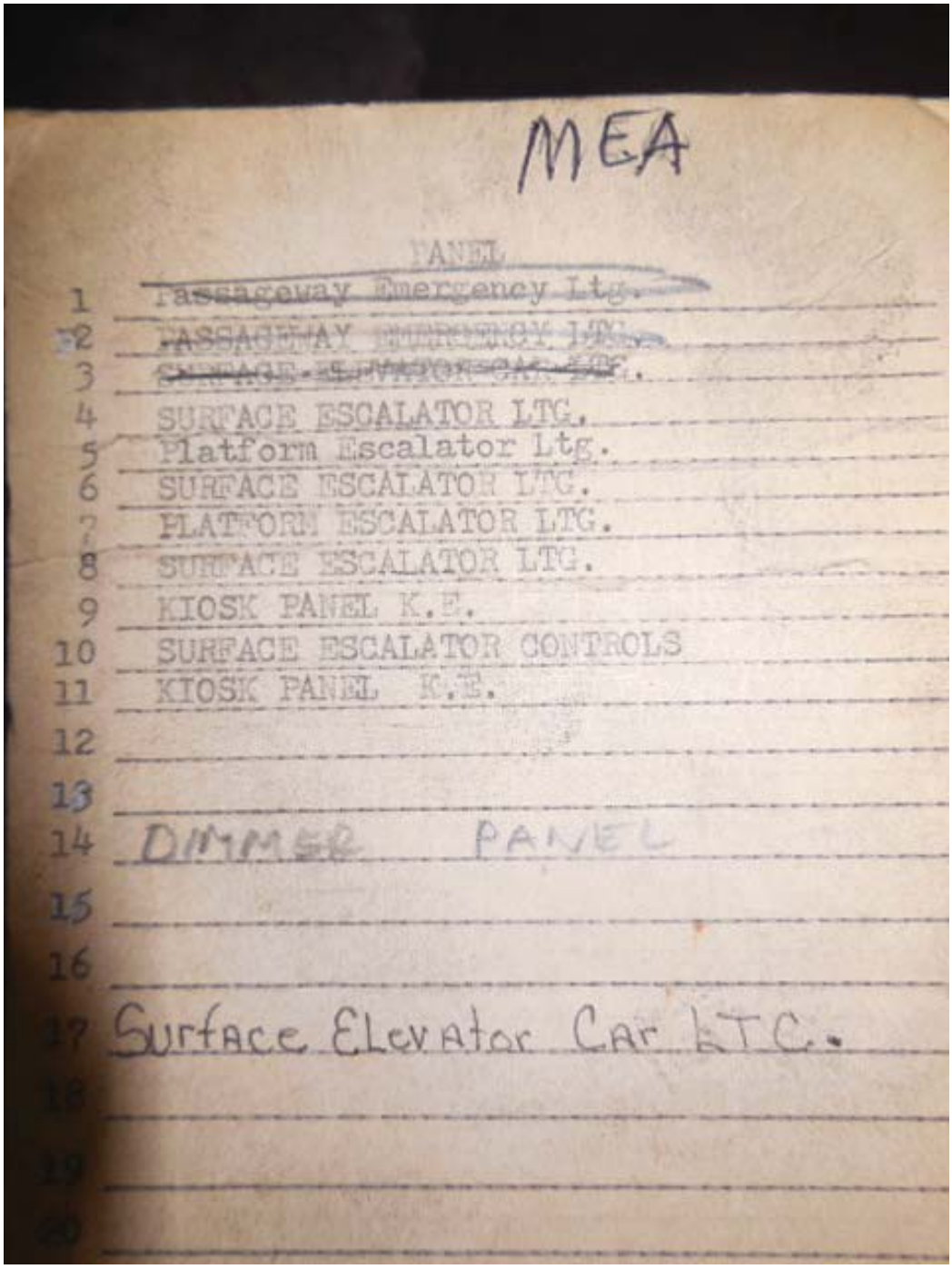
Picture 7: G02 Capitol Heights – AFC Panel MF in room 206

Picture 8: G02 Capitol Heights – AFC Panel MF in room 206 – Bottom conduits

Picture 9: G02 Capitol Heights – Emergency power Panel MEA in room 206

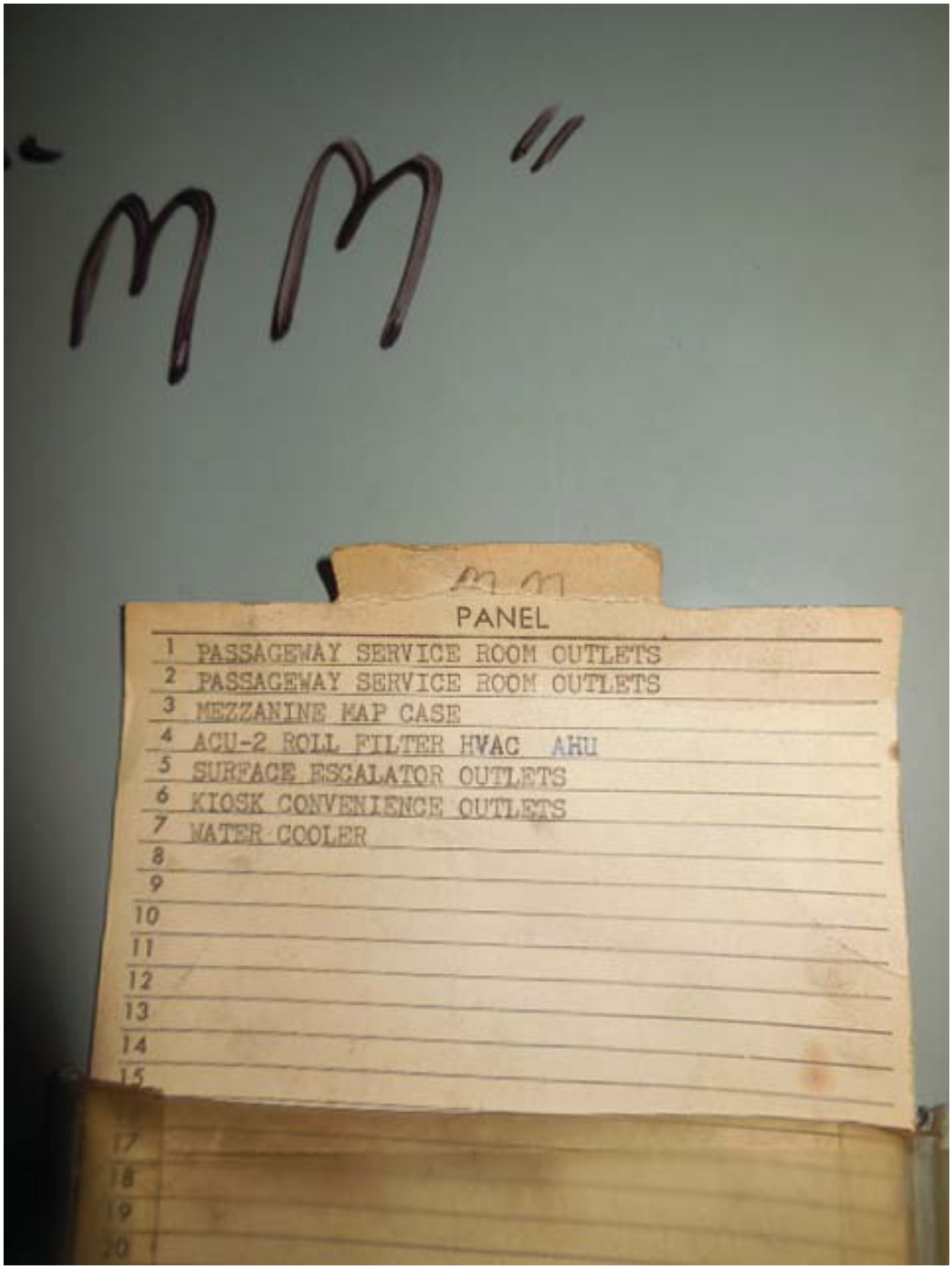
Picture 10: G02 Capitol Heights – Emergency power Panel MEA in room 206

Picture 11: G02 Capitol Heights – Emergency power Panel MEA in room 206 – Panel schedule

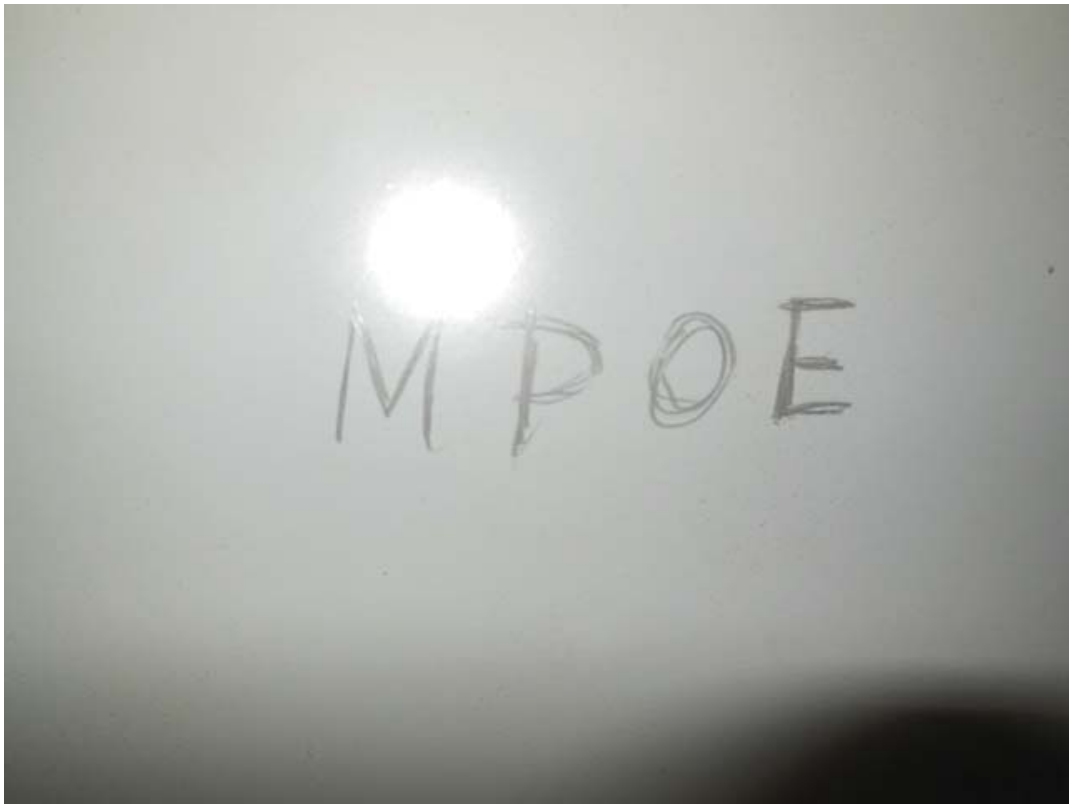


Picture 12: G02 Capitol Heights – Panel MM in room 206

Picture 13: G02 Capitol Heights – Panel MM in room 206 – Panel schedule

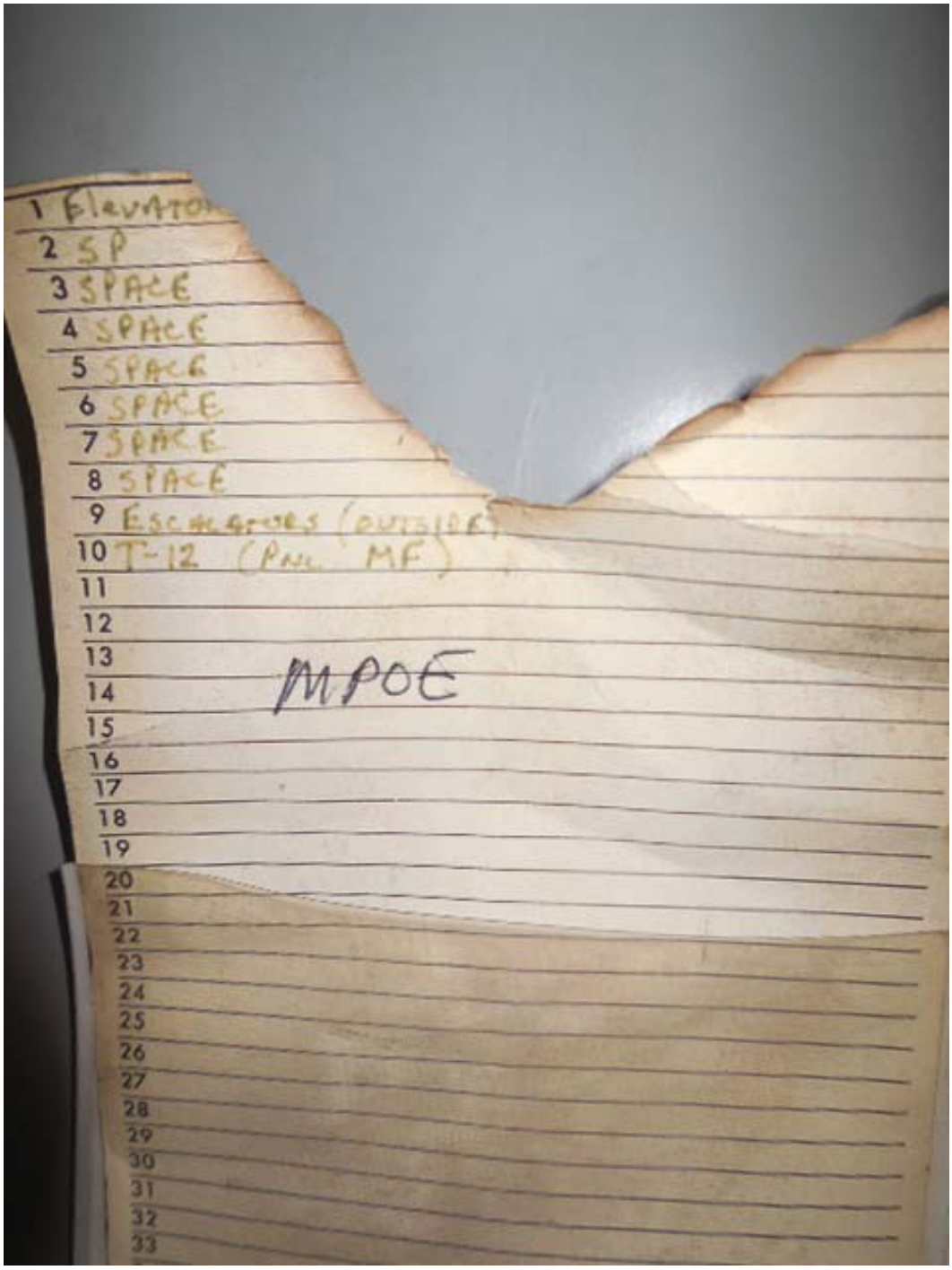


Picture 14: G02 Capitol Heights – Panel MPOE in room 206



Picture 15: G02 Capitol Heights – Panel MPOE in room 206 – Circuit #4

Picture 16: G02 Capitol Heights – Panel MPOE in room 206 – Panel schedule

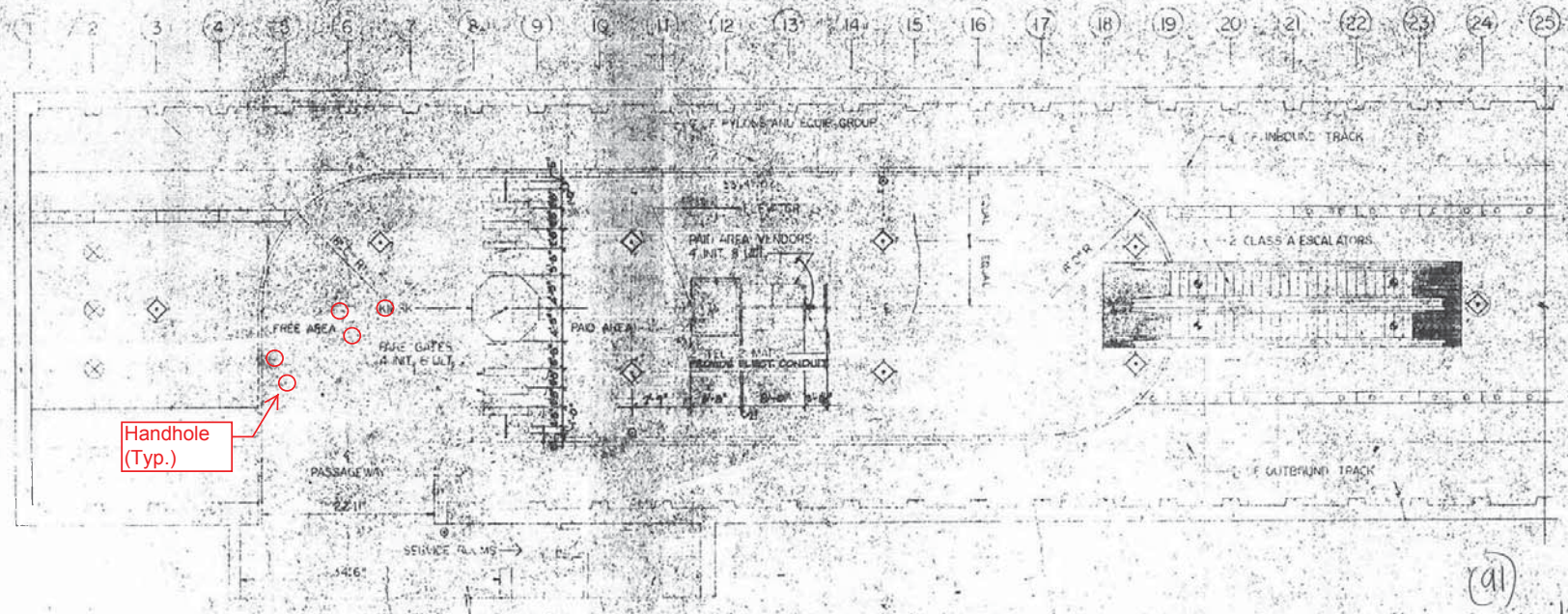


Picture 17: G02 Capitol Heights – Common trench in room 206

Picture 18: G02 Capitol Heights – Common trench in room 206

Picture 19: G02 Capitol Heights – Common trench in room 206

Pre-Inspection Field Verification 11/06/2014



(91)

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

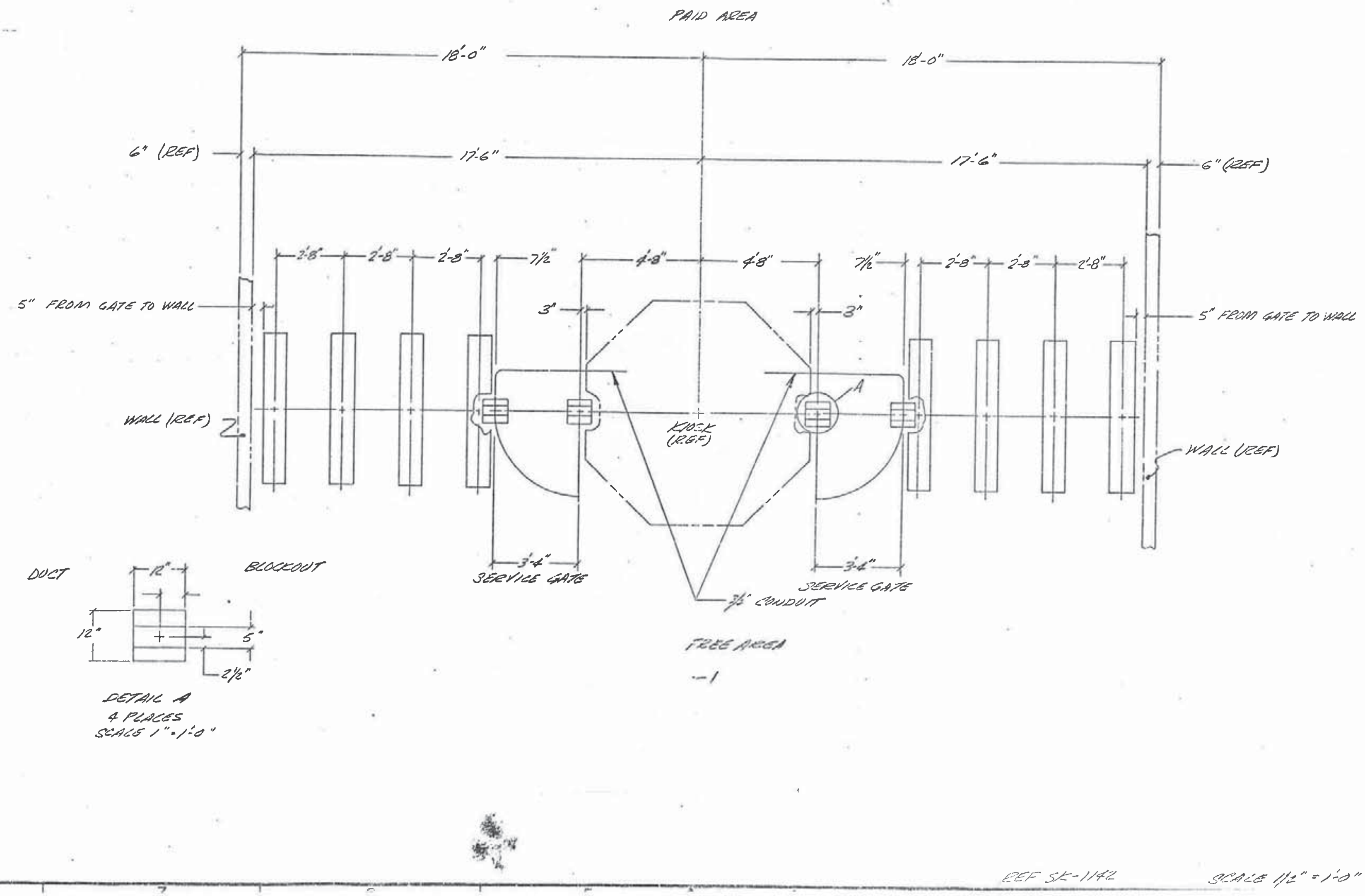
WMATA

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

CAPITOL HEIGHTS STATION G-2
FARE MACHINES, FARE GATES, PHONES and MAP CASES

Pre-Inspection Field Verification 11/06/2014



DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES | BREAK SHARP EDGES .010 MAX
TOLERANCES ON
DECIMALS: .XX ± .03 .XXX ± .010 | ANGLES: ± 0.5 DEG.
HOLES
.0135 THRU .125: +.004 -.001 | .251 THRU .500: +.006 -.001
.126 THRU .250: +.005 -.001 | .501 THRU .750: +.008 -.001
.751 THRU 1.000: +.010 -.001

CONTRACT NUMBER

SIZE D REV A

DRAWING NUMBER 926-0370

SHEET 1 OF 1

CUBIC WESTERN DATA

TITLE
CAPITOL HEIGHTS STATION
SERVICE GATE & RAILING

CODE IDENT. NO. 94987

D 926-0370

Pre-Inspection Field Verification 11/06/2014

EXISTING PANEL "MF"

AMPERES: 250	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 250A MCB	PHASE: 3	LOCATION: MECHANICAL EQUIP. ROOM C206	
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	20	1	1	A - -	2	1	20	0.8	EXISTING VENDOR
	2.5	20	1	3	- B -	4	1	20	0.8	EXISTING VENDOR
	2.5	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	0.8	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	0.0	SPARE (KIOSK) 1&2
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.0	SPARE
SPARE	0.0	20	1	25	A - -	26	1	20	0.0	SPARE
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	0.0	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

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	5.6 x 50%		2.8 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	23.1 KVA	TOTAL DEMAND KVA	21.1 KVA
		TOTAL DEMAND AMPS	58.5 AMPS

CONNECTED LOAD PHASE SUMMARY	
PHASE A:	8.5 KVA
PHASE B:	8.1 KVA
PHASE C:	6.5 KVA

NOTES:
A. EXISTING PANEL "MF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "MPOE" LOCATED IN MECHANICAL EQUIPMENT RM. 206, CIRCUIT #10-200/3P VIA 75KVA TRANSFORMER (SEE ATTACHED MM-G-E09).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-1/2" C. (WIRING FILL >40%).

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

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NGO 09-14 DATE
DRAWN C. NGO 09-14 DATE
CHECKED B. EBLE 09-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

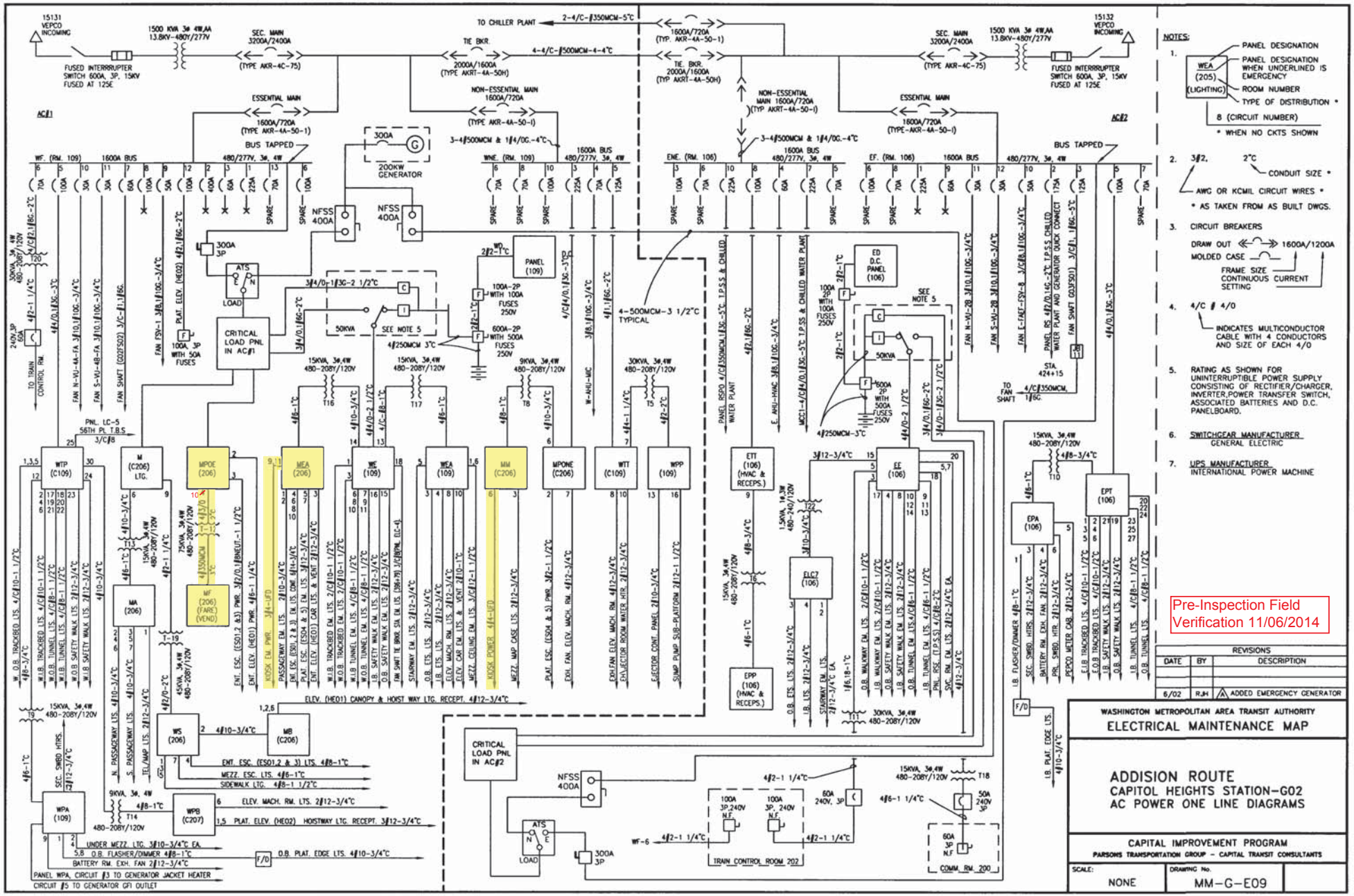
DATE	BY	DESCRIPTION

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
CAPITOL HEIGHTS
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO. G02-E-102


15131 VEPCO INCOMING
1500 KVA 3ϕ 4W,AA 13.8KV-480Y/277V
SEC. MAIN 3200A/2400A (TYPE AKR-4C-75)
FUSED INTERRRUPTER SWITCH 600A, 3P, 15KV FUSED AT 125E
TO CHILLER PLANT
2-4/C-#350MCM-5"C
TIE BKR. 2000A/1600A (TYPE AKRT-4A-50H)
4-4/C-#500MCM-4-4"C
1600A/720A (TYP. AKR-4A-50-1)
NON-ESSENTIAL MAIN 1600A/720A (TYPE AKR-4A-50-I)
ESSENTIAL MAIN 1600A/720A (TYPE AKR-4A-50-1)
AC#1
AC#2
BUS TAPPED
480/277V, 3ϕ, 4W
1600A BUS
WF. (RM. 109)
WNE. (RM. 109)
ENE. (RM. 106)
EF. (RM. 106)
300A 200KW GENERATOR
NFSS 400A
300A 3P ATS LOAD
CRITICAL LOAD PNL IN AC#1
50KVA
SEE NOTE 5
4-500MCM-3 1/2"C TYPICAL
PANEL (109)
100A-2P WITH 100A FUSES 250V
600A-2P WITH 500A FUSES 250V
ED D.C. PANEL (106)
STA. 424+15
TO FAN SHAFT 4/C#350MCM, 1#6G.
PNL. LC-5 56TH PL T.B.S 3/C#8
WTP (C109)
M (C206) LTG.
MPOE (206)
MEA (206)
WE (109)
WEA (109)
MM (C206)
MPONE (C206)
WTT (C109)
WPP (109)
ETT (106) (HVAC & RECEPS.)
EE (106)
EPT (106)
EPA (106)
EPP (106) (HVAC & RECEPS.)
ELC7 (106)
MA (206)
MF (206) (FARE) (VEND)
WS (206)
MB (C206)
WPA (109)
WPB (C207)
CRITICAL LOAD PNL IN AC#2
ATS LOAD
60A 3P N.F
COMM. RM. 200
TRAIN CONTROL ROOM 202
T5
T8
T14
T16
T17
T18
T110
KIOSK FM. PWR. 3/#14-UFD
KIOSK POWER 4/#14-UFD
ELEV. (HEO1) CANOPY & HOIST WAY LTG. RECEPT. 4/#12-3/4"C
PANEL WPA, CIRCUIT #3 TO GENERATOR JACKET HEATER
CIRCUIT #5 TO GENERATOR GFI OUTLET
NOTES:
1. PANEL DESIGNATION
WEA (205) (LIGHTING)
PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
ROOM NUMBER
TYPE OF DISTRIBUTION *
8 (CIRCUIT NUMBER)
* WHEN NO CKTS SHOWN
2. 3#2. 2"C
CONDUIT SIZE *
AWG OR KCMIL CIRCUIT WIRES *
* AS TAKEN FROM AS BUILT DWGS.
3. CIRCUIT BREAKERS
DRAW OUT
MOLDED CASE
1600A/1200A
FRAME SIZE
CONTINUOUS CURRENT SETTING
4. 4/C # 4/0
INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTORS AND SIZE OF EACH 4/0
5. RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER/CHARGER, INVERTER,POWER TRANSFER SWITCH, ASSOCIATED BATTERIES AND D.C. PANELBOARD.
6. SWITCHGEAR MANUFACTURER GENERAL ELECTRIC
7. UPS MANUFACTURER INTERNATIONAL POWER MACHINE
Pre-Inspection Field Verification 11/06/2014
REVISIONS
DATE BY DESCRIPTION
6/02 RJH A ADDED EMERGENCY GENERATOR
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP
ADDISION ROUTE
CAPITOL HEIGHTS STATION-G02
AC POWER ONE LINE DIAGRAMS
CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS
SCALE: NONE
DRAWING No. MM-G-E09
DESIGNED DATE
DRAWN DATE
CHECKED DATE
APPROVED DATE

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/06/2014	**Station Name:** Addison Road - G03	**Mezzanine #:** 092	**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: Existing SWBD "2"/ESS-2 Source Breaker Name/Number: Primary T9 "F" (Breaker #1) Electrical AFC Panel Name/Number: Panel F	Rm 207 Rm 207 Rm 207	Room 207 is on Track 1 wayside. SWBD on as-built is listed as ESS-2, but in field is listed as Existing SWBD "2".
☑	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: "CB-6" SMNT/POWR escorts: LOW Voltage	Rm 207	
☑	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		No handholes on mezzanine floor. Conduit/ducts on two levels.
☑	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:		Power run from Kiosk to AFC Panel is 20'. Power run is from Kiosk to Junction box (located on platform level in AC SWBD room 207 directly below the Kiosk); Junction box to AFC Panel.
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? NO Identified Conduit/Duct Transition to mezzanine level? YES		The run portion from Kiosk to Junction box is approx. 5' of duct. Run portion from Junction box to AFC Panel is approx. 15' of conduit.

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: EP02B Emergency Power Source Breaker Name/Number: Breaker # 4 Panel Name/Number: Kiosk Emergency Panel	Rm 207 Rm 207 Kiosk	Panel KE (Kiosk Emergency Panel) located in Kiosk, Breaker #1 de-energizes emergency power for faregates.

Notes and Discrepancies:

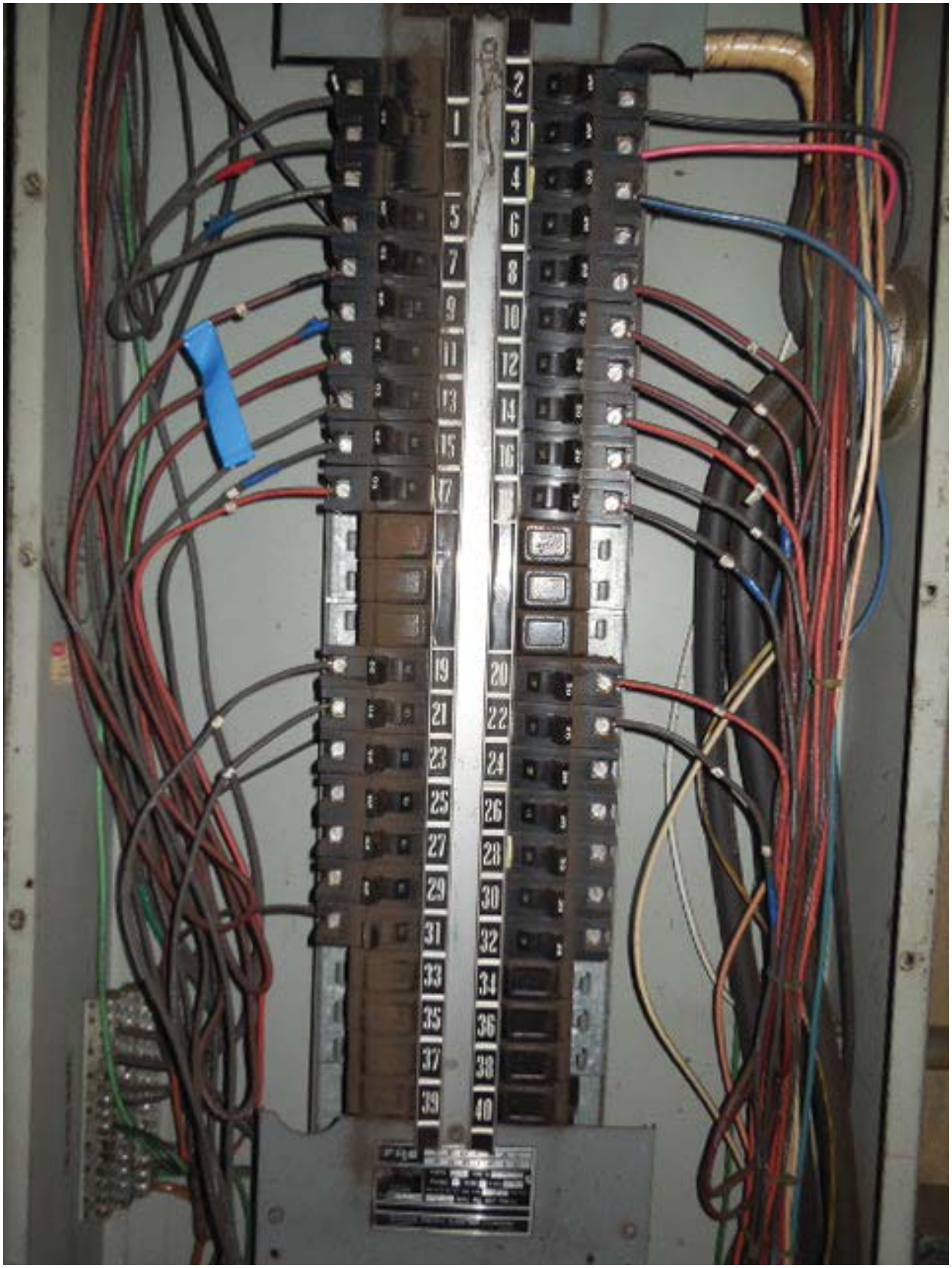
Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmina Sahoo	
Date:	11/06/2014	

Picture 1: G03 Addison Road – No handholes in Mezzanine

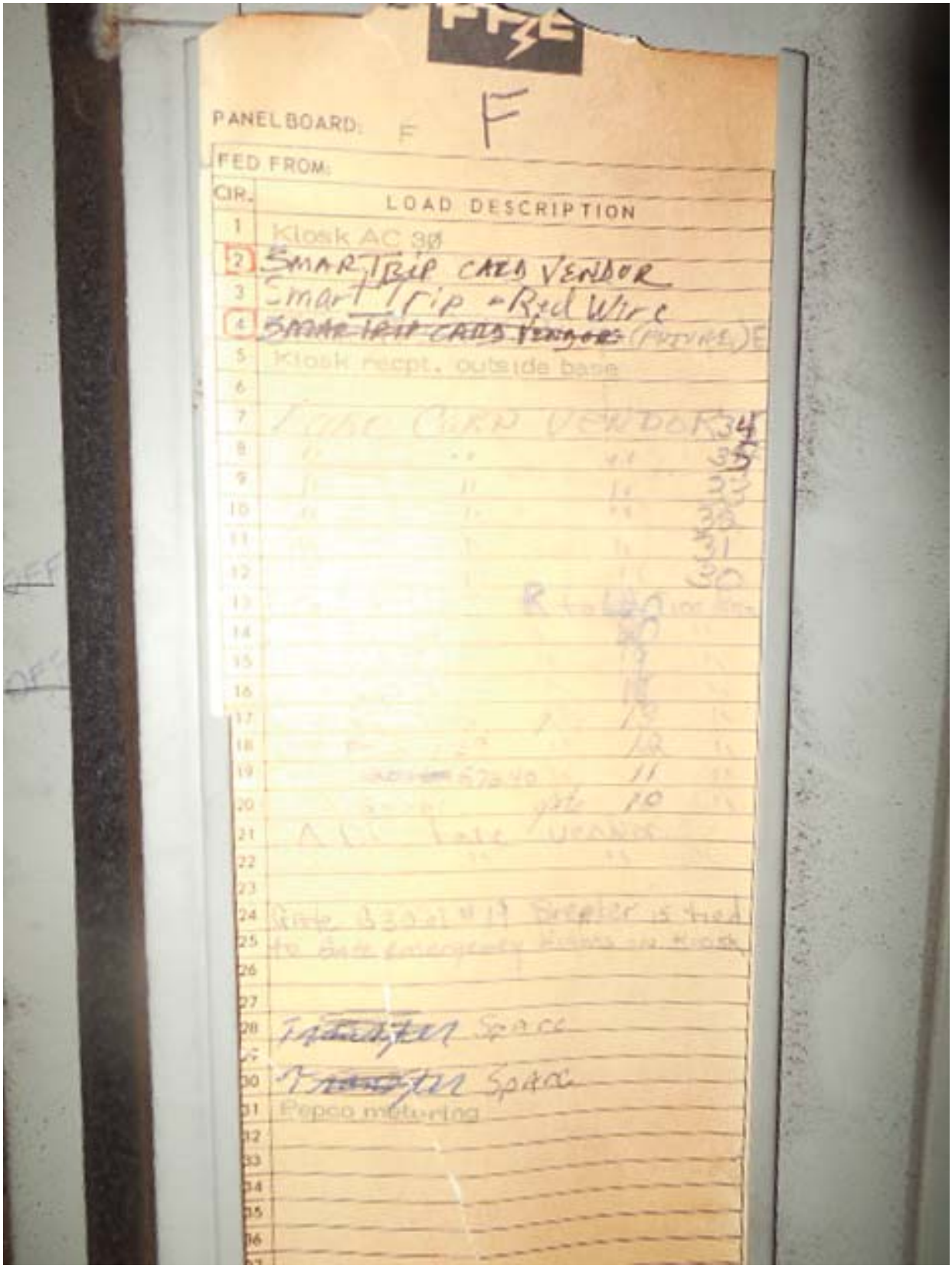
Picture 2: G03 Addison Road – No handholes in Mezzanine

Picture 3: G03 Addison Road – AFC Panel F in Room 207

Picture 4: G03 Addison Road – AFC Panel F in Room 207



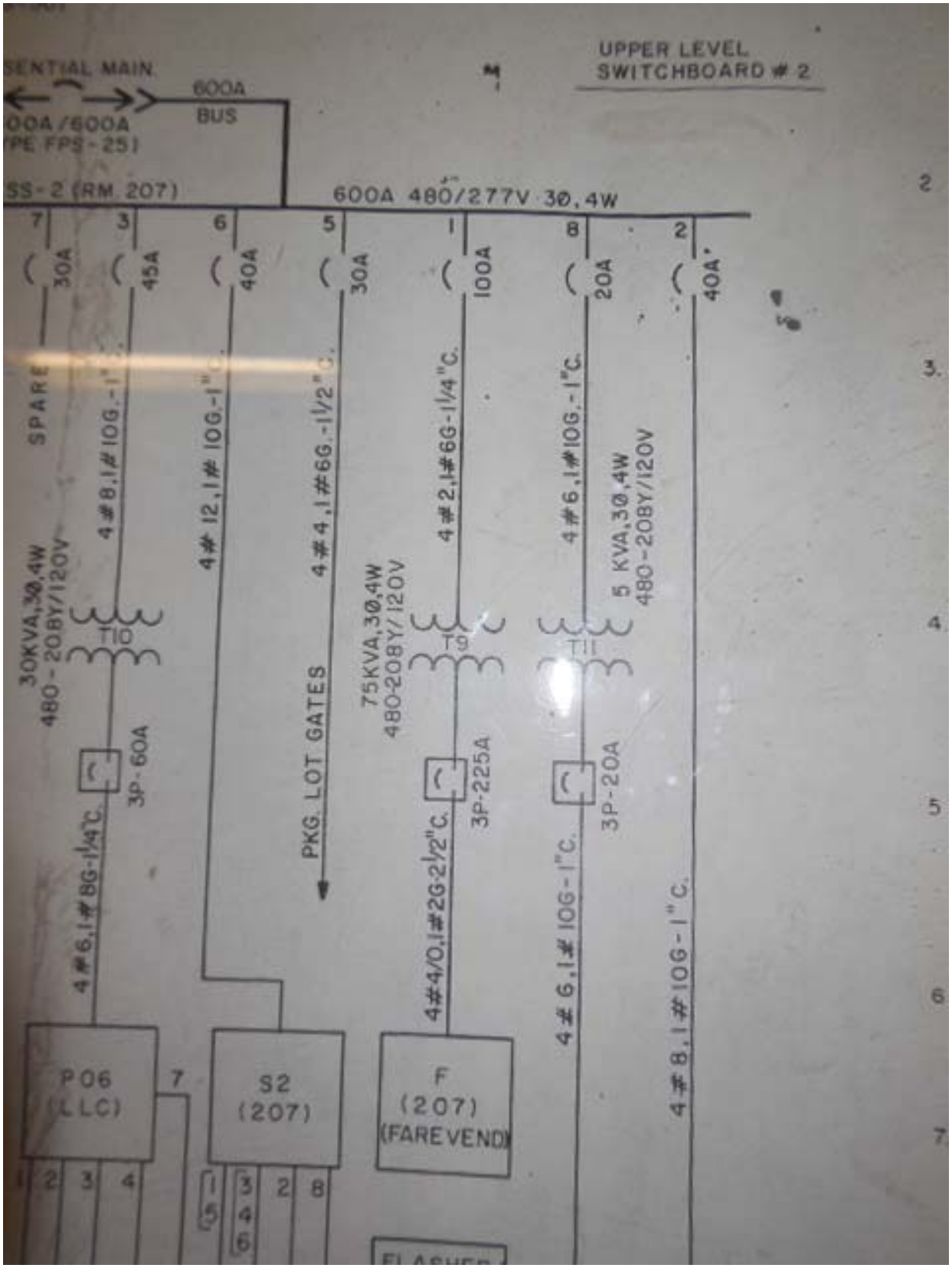
Picture 5: G03 Addison Road – AFC Panel F in Room 207 – Panel schedule



Picture 6: G03 Addison Road – AFC Panel F in Room 207 – Conduits above panel

Picture 7: G03 Addison Road – AFC Panel F in Room 207 – Conduits above panel

Picture 8: G03 Addison Road – One line diagram in Room 207 – Different diagram than As-built



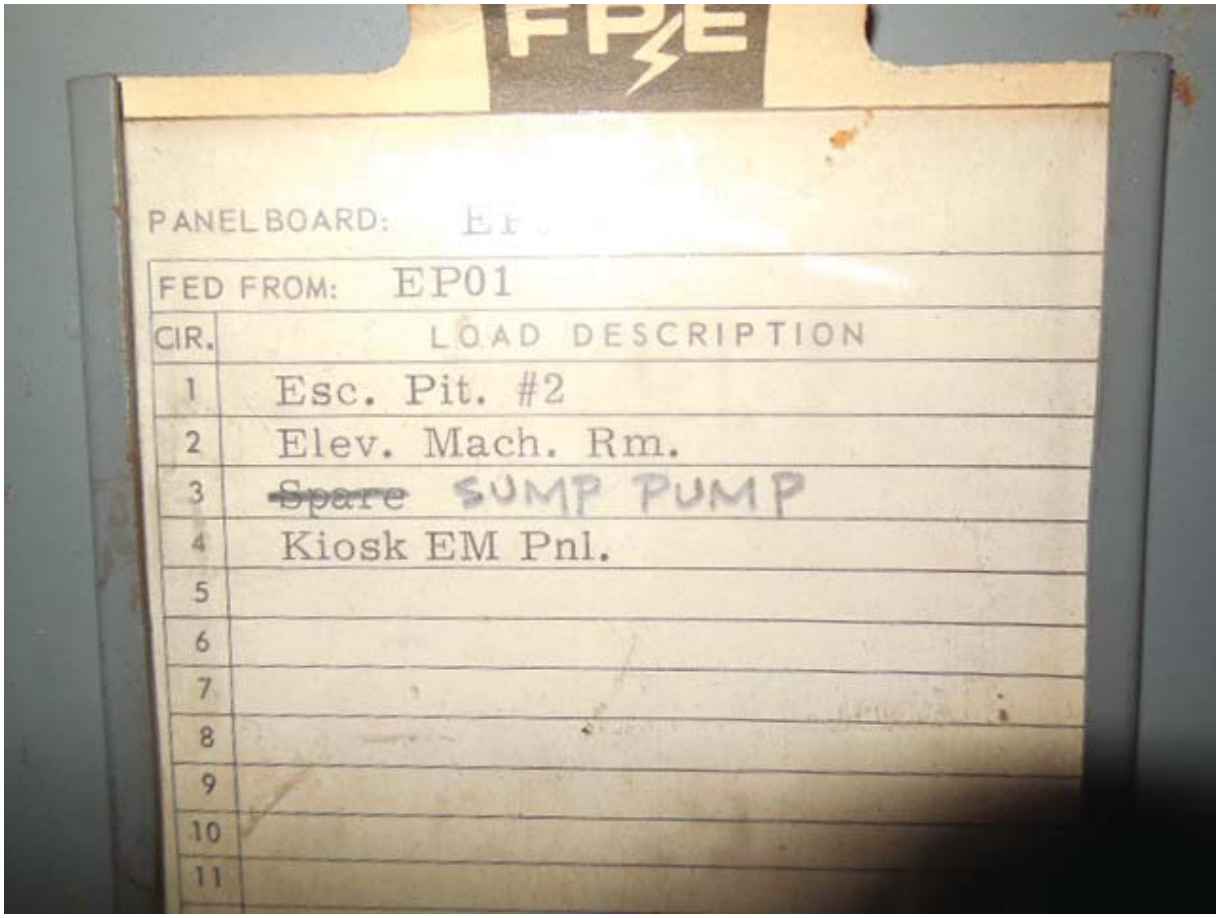
Picture 9: G03 Addison Road – Essential Section in Room 207

Picture 10: G03 Addison Road – Primary T9 “F” Disconnect Switch in Room 207

Picture 11: G03 Addison Road – EP02B Emergency Power Panel

Picture 12: G03 Addison Road – EP02B Emergency Power Panel in Room 207 – Circuit 4

Picture 13: G03 Addison Road – EP02B Emergency Power Panel in Room 207 – Panel schedule



Picture 14: G03 Addison Road – DB-6 Disconnect switch in Room 207

Pre-Inspection Field Verification 11/06/2014

NOTE:

1. ALL INFORMATION CONCERNING DUCTS & CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC-WESTERN DATA BY WMATA.
2. TOTAL MACHINE INVENTORY IS NOT KEYED ON THIS DRAWING.
3. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE XC BRANCH THRU THE MACHINE.
4. FOR REFERENCE DRAWINGS SEE SUPPORT DOCUMENTATION PROVIDED FOR THIS MECHANISM.

NEW CHANGE MARKED ON 7/6/89. A.I. DAUM

NEWS AFFER

BUS TRANSFER

11 ADDISON ROAD SOUTH

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED

Approval Does Not Relieve the Contractor of the Responsibility for the Accuracy of this Document or for Full Compliance with the Contract Requirements

BY:

DATE:

AS BUILT

AS of 11/22/89

CP-Z7007A-140-2-0

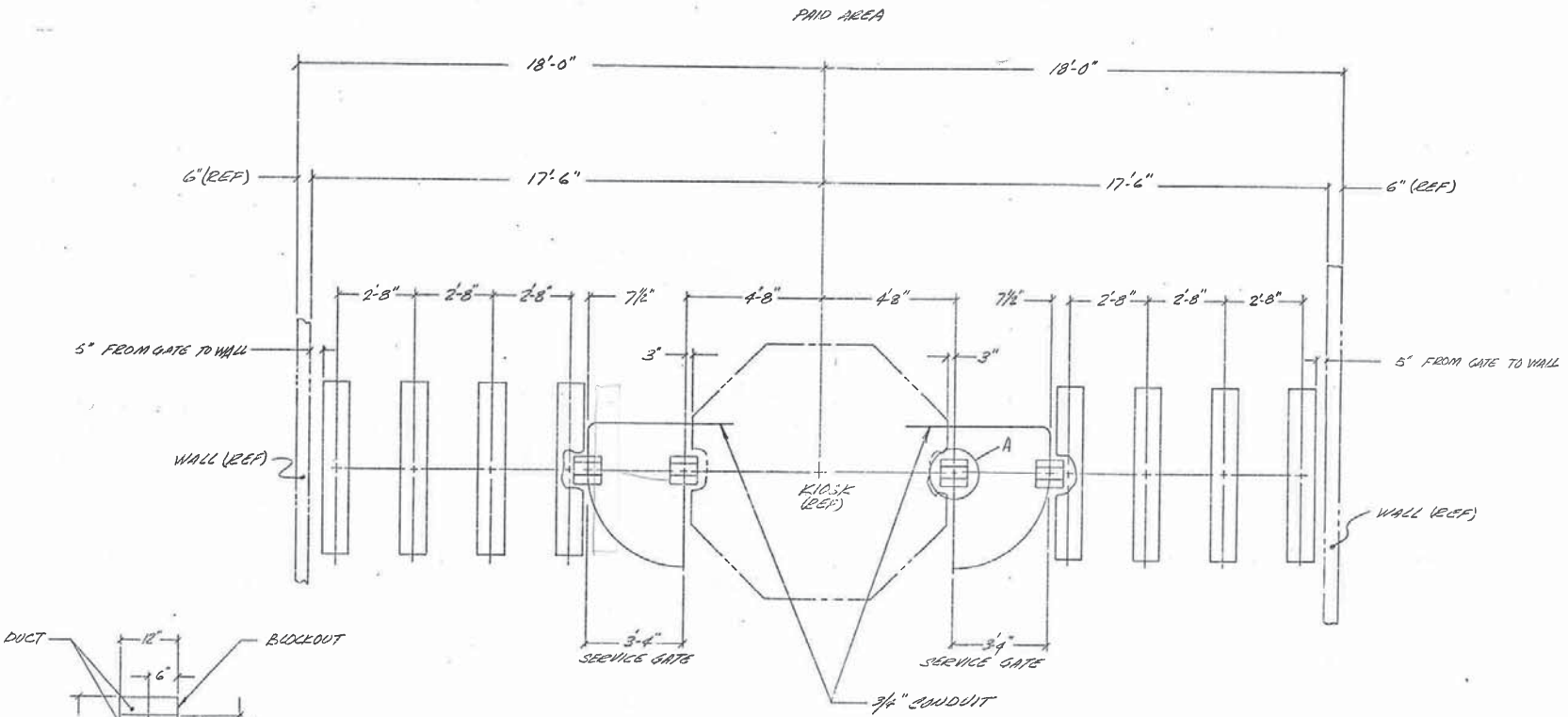
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

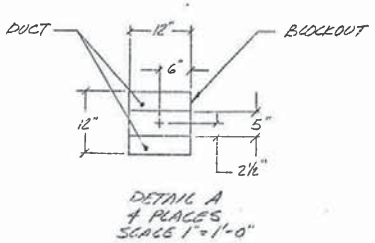
CUBIC WESTERN DATA

11 PCO-65

(92)

Pre-Inspection Field Verification 11/06/2014





DETAIL A
4 PLACES
SCALE 1"=1'-0"

-1

REF SR-1082

SCALE ½"=1'-0"

CUBIC WESTERN DATA

CONTRACT NUMBER

DRAWING NUMBER 926-0372

SHEET 1 OF 1

TITLE ADDISON ROAD STATION SERVICE GATE & FENCE

CODE IDENT NO. 94987

926-0372

Pre-Inspection Field Verification 11/06/2014

EXISTING PANEL "F"

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE
MAINS: 225A MLO	PHASE: 3	LOCATION: ROOM #207
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"	2.7	30	3	1	A - -	2	1	20	0.8	EXISTING VENDOR
	2.5	-	-	3	- B -	4	1	20	0.8	EXISTING VENDOR
	2.5	-	-	5	- - C	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A - -	8	1	20	0.0	SPARE
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
SPACE	0.0	-	-	21	- B -	22	-	-	0.0	SPACE
SPACE	0.0	-	-	23	- - C	24	-	-	0.0	SPACE
SPACE	0.0	-	-	25	A - -	26	-	-	0.0	SPACE
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 1
~~1~~ NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	31	A - -	32	1	20	0.0	SPARE 1&2
~~1&2~~ SPARE (KIOSK)	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	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	39	- B -	40	1	20	0.0	SPARE
SPACE	0.0	-	-	41	- - C	42	-	-	0.0	SPACE
SPACE	0.0	-	-	43	A - -	44	-	-	0.0	SPACE
SPACE	0.0	-	-	45	- B -	46	-	-	0.0	SPACE
SPACE	0.0	-	-	47	- - C	48	-	-	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	7.8 x 50%		3.9 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	25.3 KVA	TOTAL DEMAND KVA	22.2 KVA
		TOTAL DEMAND AMPS	61.5 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	8.3 KVA		
PHASE B	8.9 KVA		
PHASE C:	8.1 KVA		

NOTES:
A. EXISTING PANEL "F" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD "2" LOCATED IN ROOM 207, CIRCUIT #1-100/3P TO 200A DISC. SW., VIA 75KVA TRANSFORMER (SEE ATTACHED MM-G-E11).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 4-2" C. (2-WIRING FILL >40% & 2-EMPTY CONDUIT).

EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
- 1-3" C. TO DISCONNECT SWITCH (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED C. HSU 09-14 DATE
DRAWN C. HSU 09-14 DATE
CHECKED R. DELSI 09-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

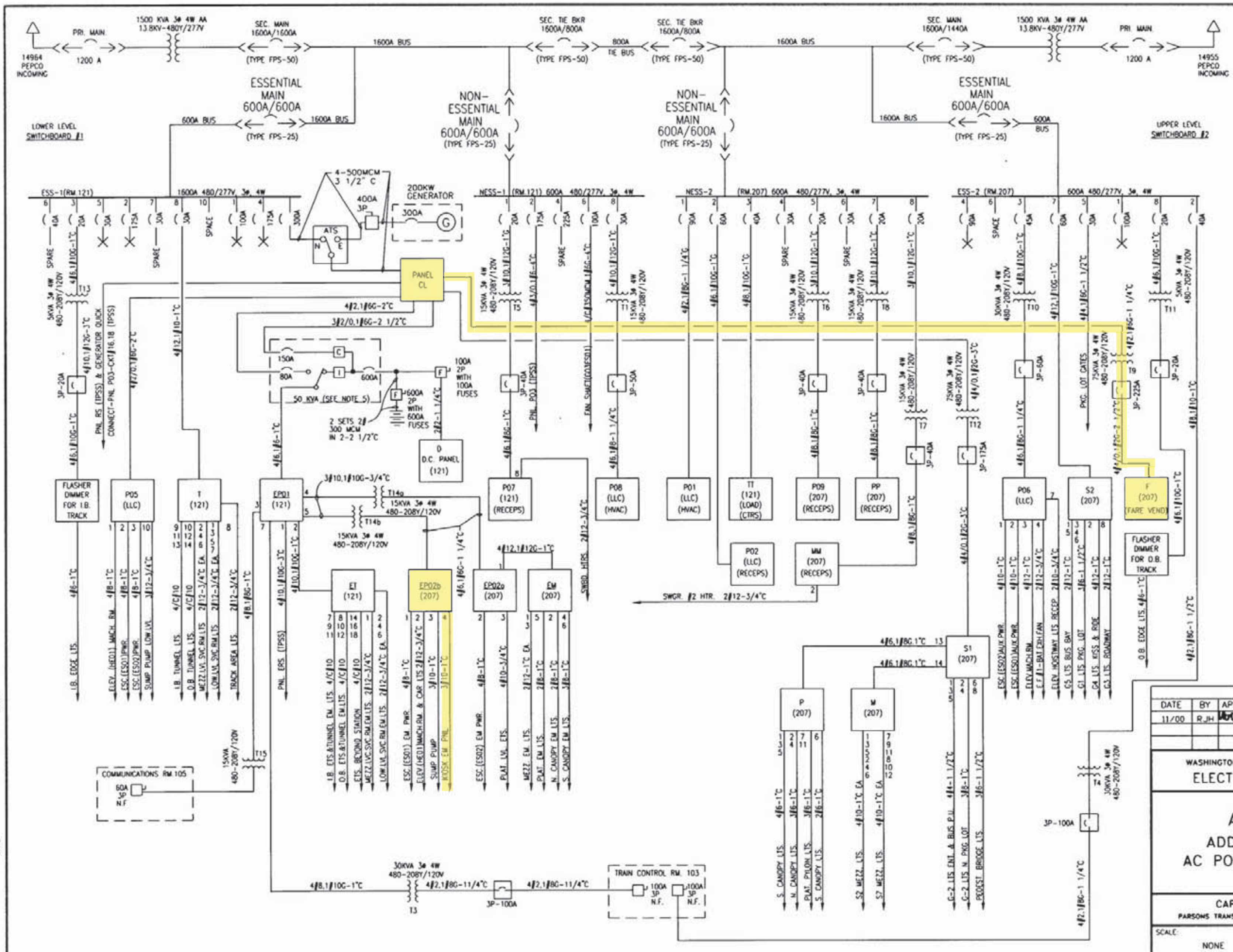
REVISIONS		
DATE	BY	DESCRIPTION

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
ADDISON ROAD
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO.: G03-E-102



NOTES:

1. WEA (205) (LIGHTING) — PANEL DESIGNATION; PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY; ROOM NUMBER; TYPE OF DISTRIBUTION *

   8 (CIRCUIT NUMBER)

   * WHEN NO CKTS SHOWN

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

   * AS TAKEN FROM AS BUILT DWGS.

3. CIRCUIT BREAKERS

   DRAW OUT 1600A/1200A

   MOLDED CASE

   FRAME SIZE

   CONTINUOUS CURRENT SETTING

4. 4/C # 4/0 — INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTORS AND SIZE OF EACH 4/0

5. RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER/CHARGER, INVERTER, POWER TRANSFER SWITCH, ASSOCIATED BATTERIES AND D.C. PANELBOARD.

6. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC

   TYPE OF BREAKERS: DS

7. UPS MANUFACTURER: IPM

Pre-Inspection Field Verification 11/06/2014

REVISIONS			
DATE	BY	APRVD	DESCRIPTION
11/00	RJH	[illegible]	ADDED EMERGENCY GENERATOR

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

ADDISON ROUTE

ADDISON ROAD STATION

AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE: NONE | DRAWING No. MM-G-E11

DESIGNED ____ DATE ____ CHECKED ____ DATE ____

DRAWN ____ DATE ____ APPROVED ____ DATE ____

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/06/2014	**Station Name:** Morgan Blvd - G04	**Mezzanine #:** 110	**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: WMES Source Breaker Name/Number: Breaker #1, #3, #5 Electrical AFC Panel Name/Number: WMESS1	Rm 205 Rm 205 Rm 205	
☑	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. Power run from Kiosk to AFC Panel is approx. 90' via 4 handholes.

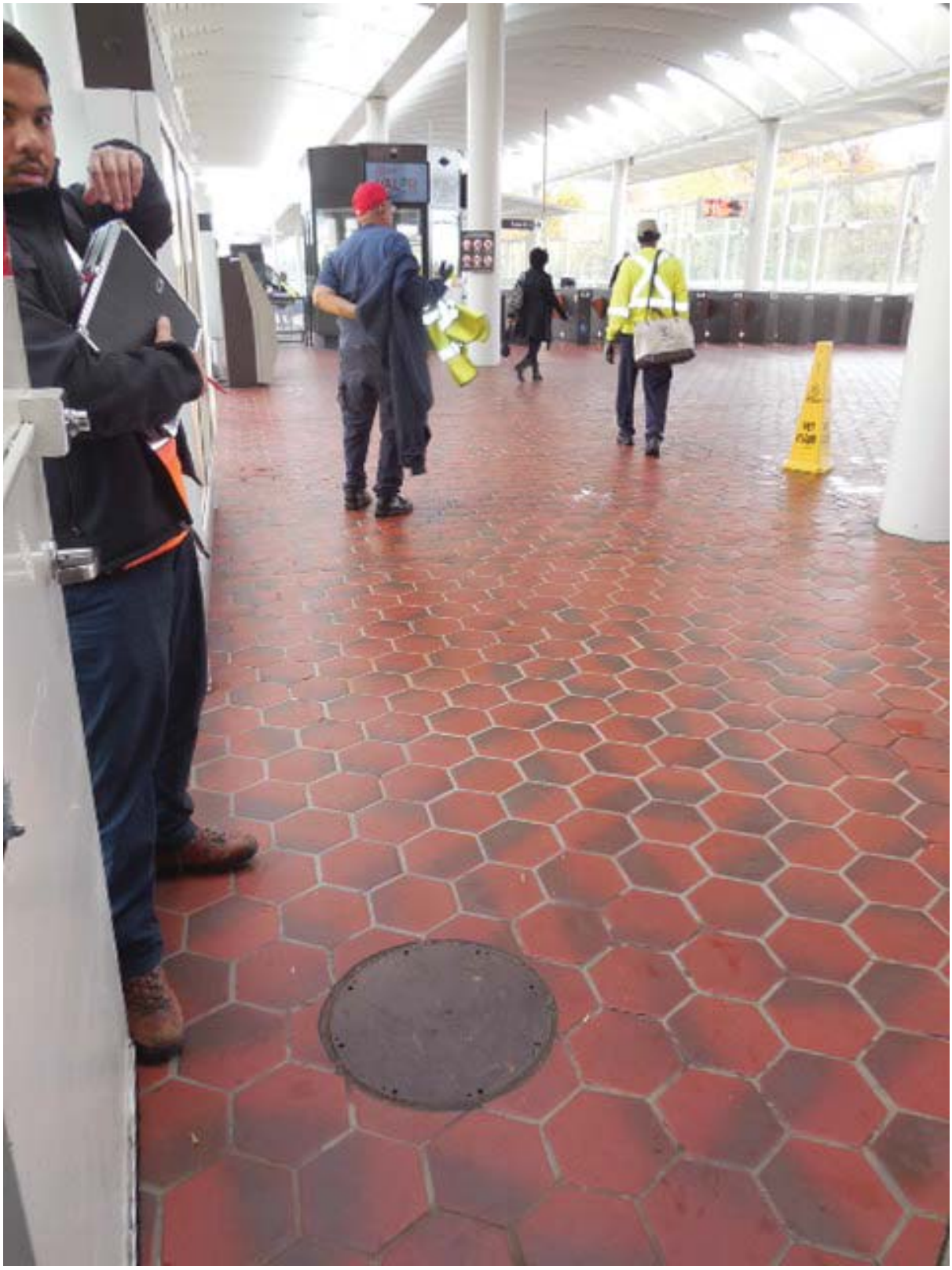
Emergency Power Verification

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: WMEE Source Breaker Name/Number: Breaker #3 Panel Name/Number: Kiosk Emergency Panel	Rm 205 Rm 205 Kiosk	Shown on as-built as Breaker #7, #9, #11. Panel KE located in Kiosk, Breaker #1 de-energizes emergency power to faregates.

Notes and Discrepancies:

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:	Tarmina Sahoo	
Date:	11/06/2014	

Picture 1: G04 Morgan Boulevard – Manhole in Mezzanine



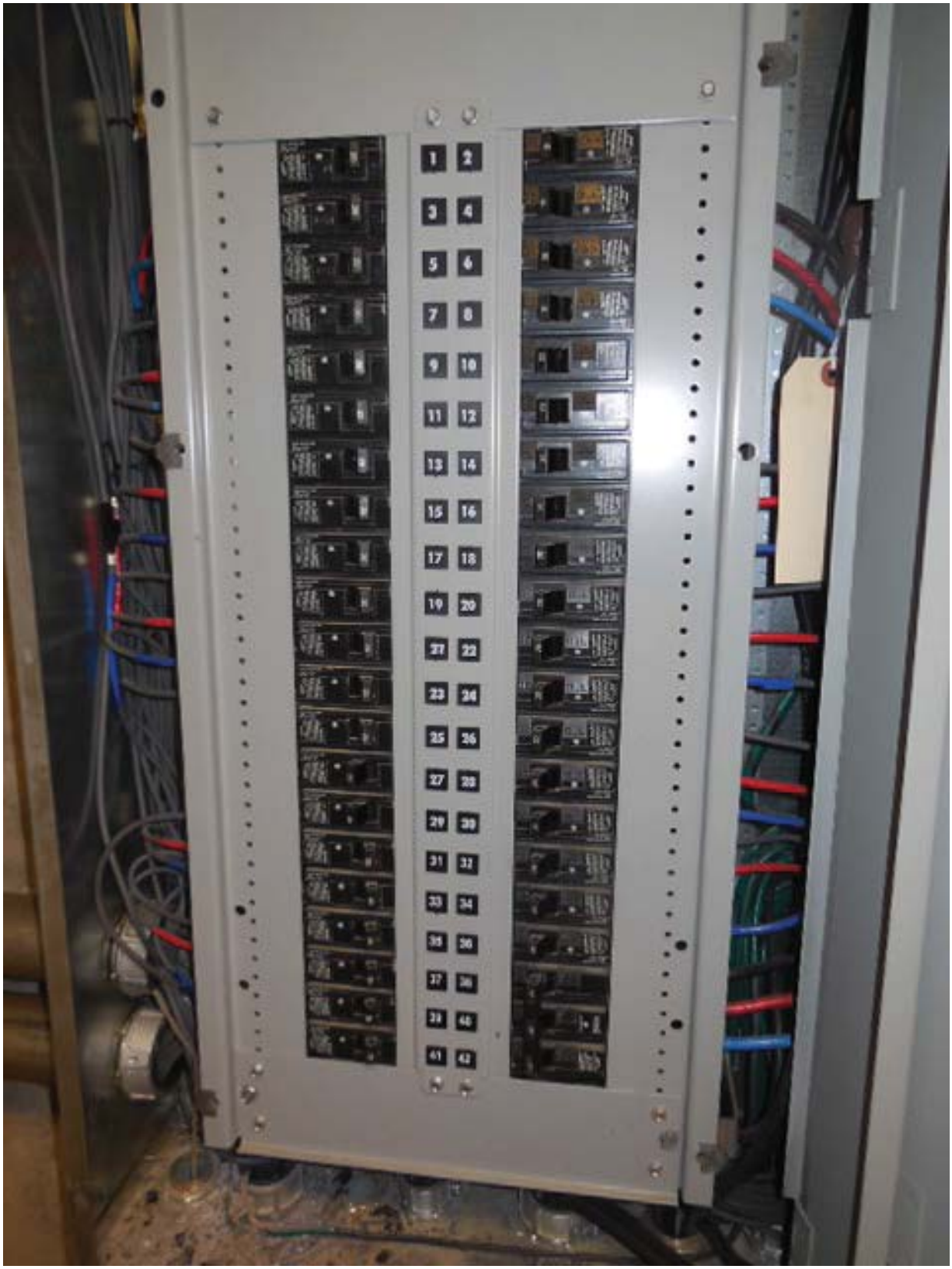
Picture 2: G04 Morgan Boulevard – Manholes in Mezzanine

Picture 3: G04 Morgan Boulevard – Manholes in Mezzanine

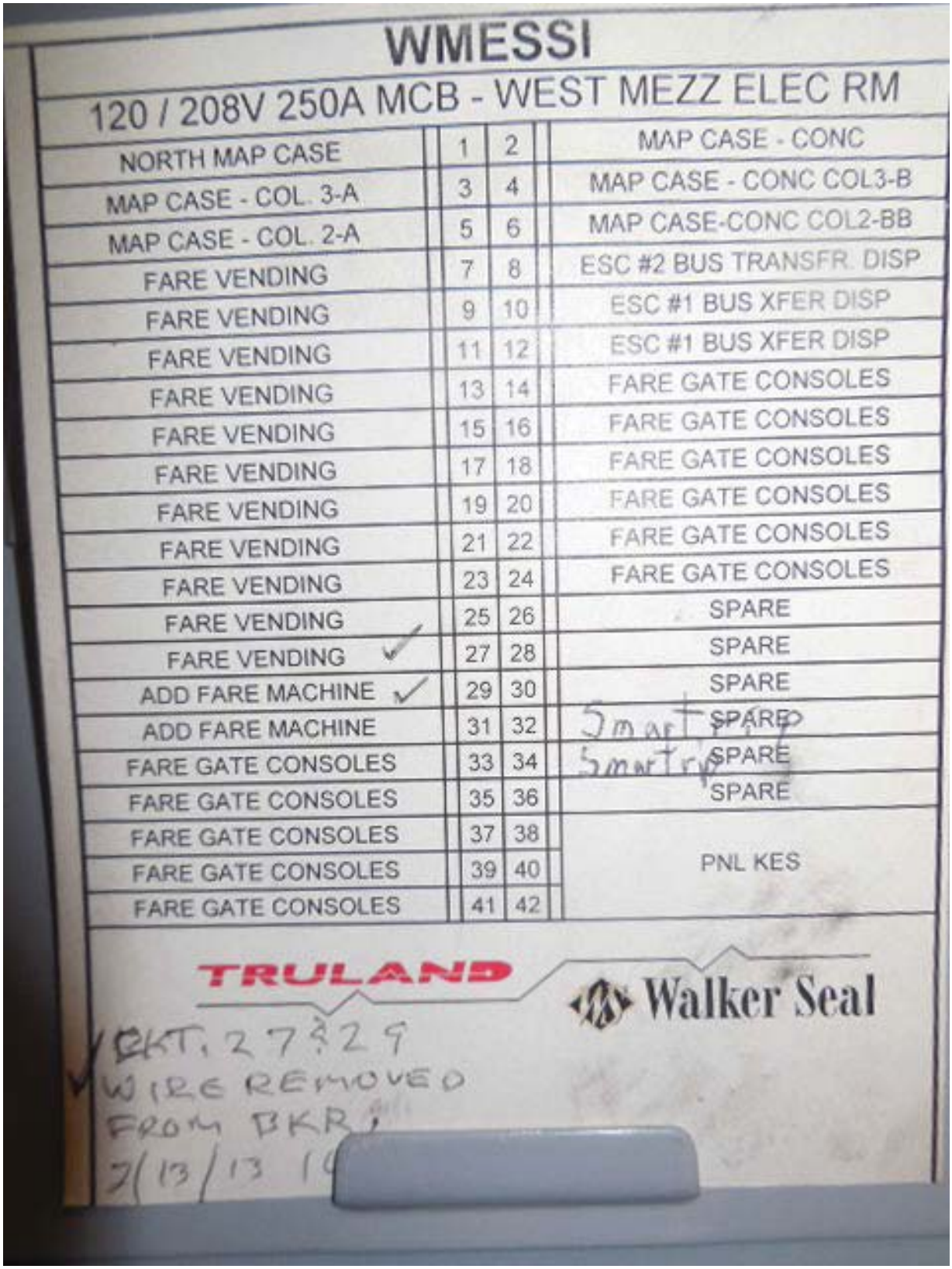
Picture 4: G04 Morgan Boulevard – AFC Panel WMESSI in Room 205

Picture 5: G04 Morgan Boulevard – AFC Panel WMESSI in Room 205

Picture 6: G04 Morgan Boulevard – AFC Panel WMESSI in Room 205



Picture 7: G04 Morgan Boulevard – AFC Panel WMESSI in Room 205 – Panel schedule



WMESSI

120 / 208V 250A MCB - WEST MEZZ ELEC RM

NORTH MAP CASE	1	2	MAP CASE - CONC
MAP CASE - COL. 3-A	3	4	MAP CASE - CONC COL3-B
MAP CASE - COL. 2-A	5	6	MAP CASE-CONC COL2-BB
FARE VENDING	7	8	ESC #2 BUS TRANSFR. DISP
FARE VENDING	9	10	ESC #1 BUS XFER DISP
FARE VENDING	11	12	ESC #1 BUS XFER DISP
FARE VENDING	13	14	FARE GATE CONSOLES
FARE VENDING	15	16	FARE GATE CONSOLES
FARE VENDING	17	18	FARE GATE CONSOLES
FARE VENDING	19	20	FARE GATE CONSOLES
FARE VENDING	21	22	FARE GATE CONSOLES
FARE VENDING	23	24	FARE GATE CONSOLES
FARE VENDING	25	26	SPARE
FARE VENDING ✓	27	28	SPARE
ADD FARE MACHINE ✓	29	30	SPARE
ADD FARE MACHINE	31	32	SPARE
FARE GATE CONSOLES	33	34	SPARE
FARE GATE CONSOLES	35	36	SPARE
FARE GATE CONSOLES	37	38	PNL KES
FARE GATE CONSOLES	39	40	
FARE GATE CONSOLES	41	42	

TRULAND

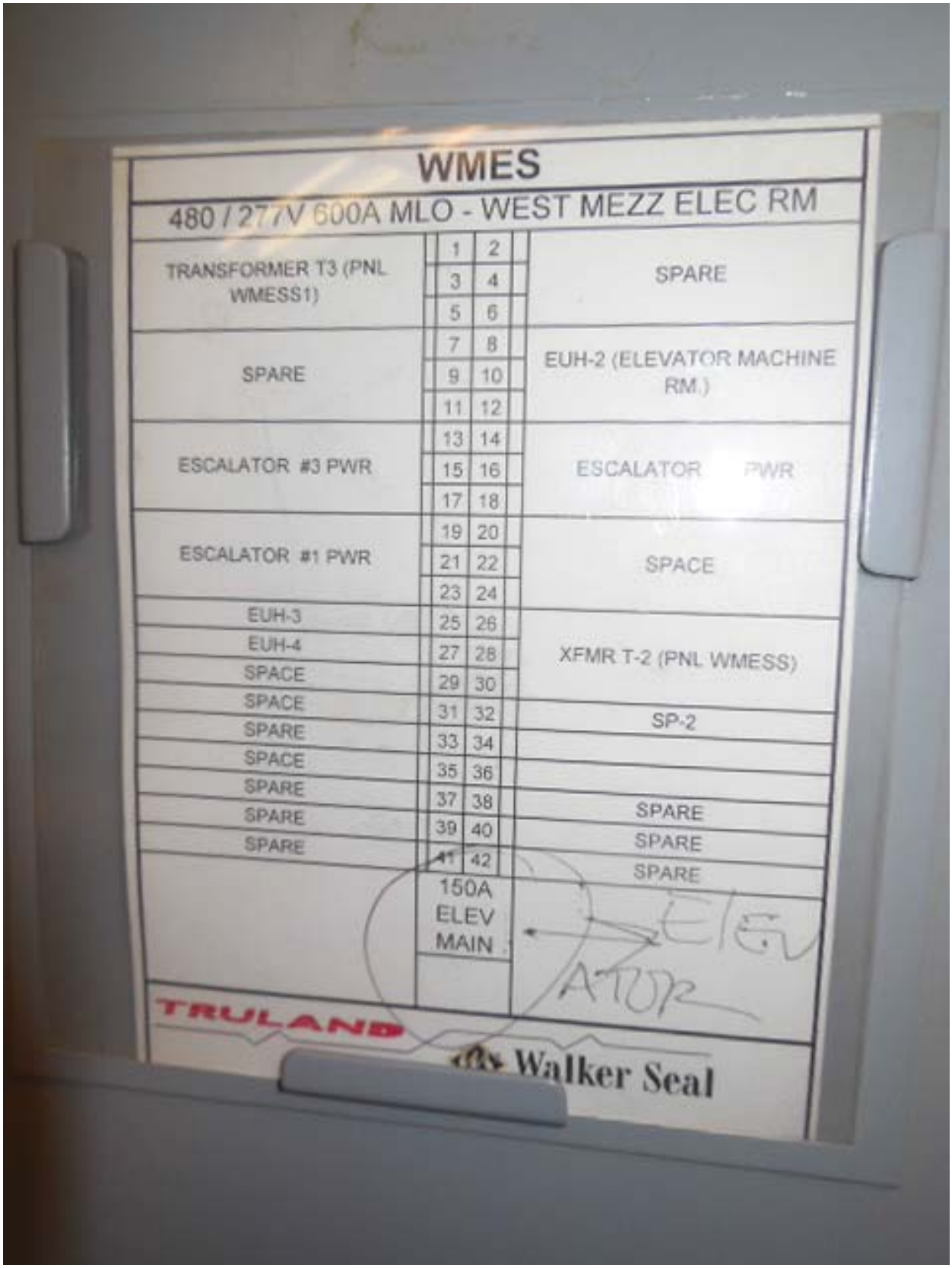
Walker Seal

BKT. 27 & 29
WIRE REMOVED
FROM BKR
7/13/13

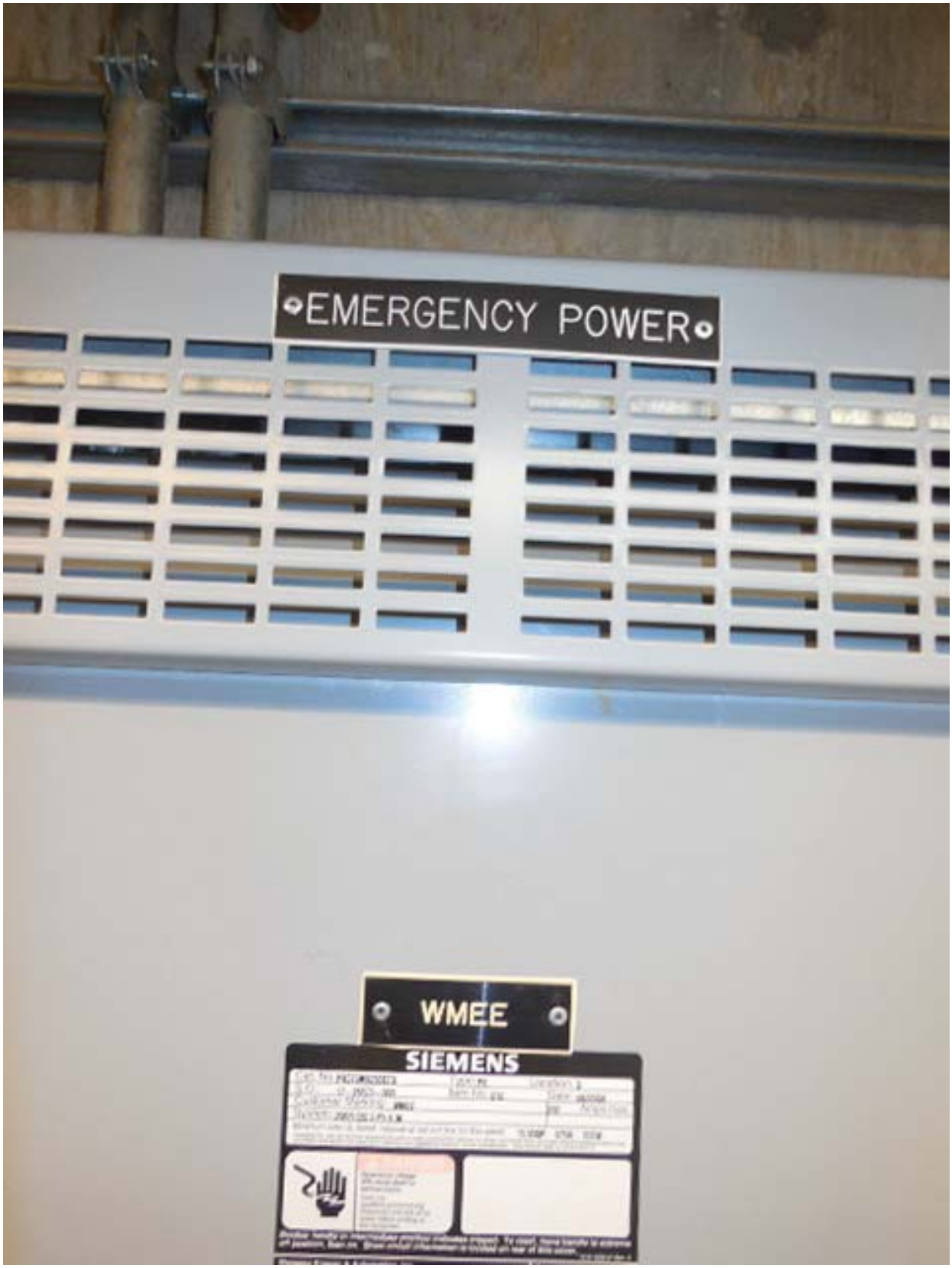
Picture 8: G04 Morgan Boulevard – Panel WMES in Room 205

Picture 9: G04 Morgan Boulevard – Panel WMES in Room 205

Picture 10: G04 Morgan Boulevard – Panel WMES in Room 205 – Panel schedule

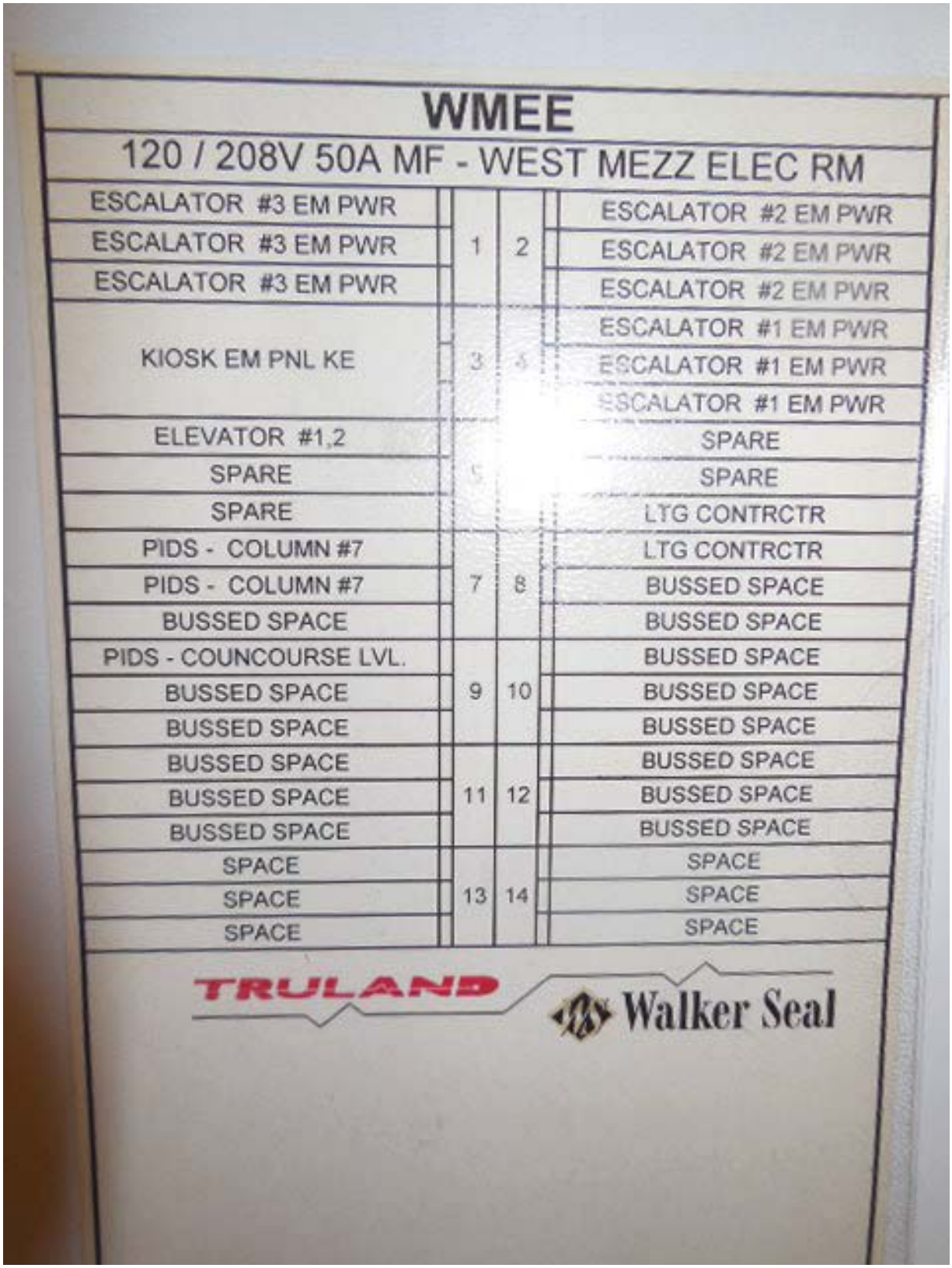


Picture 11: G04 Morgan Boulevard – Emergency Panel WMEE in Room 205



Picture 12: G04 Morgan Boulevard – Emergency Panel WMEE in Room 205 – Circuit 3

Picture 13: G04 Morgan Boulevard – Emergency Panel WMEE in Room 205 – Panel schedule



WMEE			
120 / 208V 50A MF - WEST MEZZ ELEC RM			
ESCALATOR #3 EM PWR	1	2	ESCALATOR #2 EM PWR
ESCALATOR #3 EM PWR			ESCALATOR #2 EM PWR
ESCALATOR #3 EM PWR			ESCALATOR #2 EM PWR
KIOSK EM PNL KE	3	4	ESCALATOR #1 EM PWR
			ESCALATOR #1 EM PWR
			ESCALATOR #1 EM PWR
ELEVATOR #1,2	5	6	SPARE
SPARE			SPARE
SPARE			LTG CONTRCTR
PIDS - COLUMN #7	7	8	LTG CONTRCTR
PIDS - COLUMN #7			BUSSED SPACE
BUSSED SPACE			BUSSED SPACE
PIDS - COUNCOURSE LVL.	9	10	BUSSED SPACE
BUSSED SPACE			BUSSED SPACE
BUSSED SPACE			BUSSED SPACE
BUSSED SPACE	11	12	BUSSED SPACE
BUSSED SPACE			BUSSED SPACE
BUSSED SPACE			BUSSED SPACE
SPACE	13	14	SPACE
SPACE			SPACE
SPACE			SPACE

TRULAND Walker Seal

Pre-Inspection Field Verification 11/06/2014

EXISTING PANEL "WMESS1" ✓

AMPERES: 250	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 250A MCB	PHASE: 3	LOCATION: ELECTRICAL ROOM 205 ✓	
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
SPARE	0.0	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	NEW KIOSK RECEPT. (IT & NEPP) 1 ✓
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.0	SPARE (KIOSK) 1&2 ✓
EXISTING VENDOR	0.8	20	1	11	- - C	12	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	13	A - -	14	1	20	0.0	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	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	0.8	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	0.8	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	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	37	A - -	38	3	40	3.3	EXIST. KIOSK LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	39	- B -	40	-	-	2.5	
EXISTING VENDOR	0.8	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	17.2 x 50%		8.6 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	34.7 KVA	TOTAL DEMAND KVA	26.9 KVA
		TOTAL DEMAND AMPS	74.6 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	12.1 KVA
PHASE B:	11.3 KVA
PHASE C:	11.3 KVA

NOTES:
A. EXISTING PANEL ✓ "WMESS1" IS FED FROM 277/480V, 3Φ, 4W EXISTING PANEL ✓ "WMES" LOCATED IN ELECTRICAL RM. 205, CIRCUIT #1,3,5–125/3P, VIA 75KVA TRANSFORMER (SEE ATTACHED MM–G–E15).

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

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. NGO 09-14 DATE
DRAWN C. NGO 09-14 DATE
CHECKED B. DILBI 09-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS NUMBER	DESCRIPTION

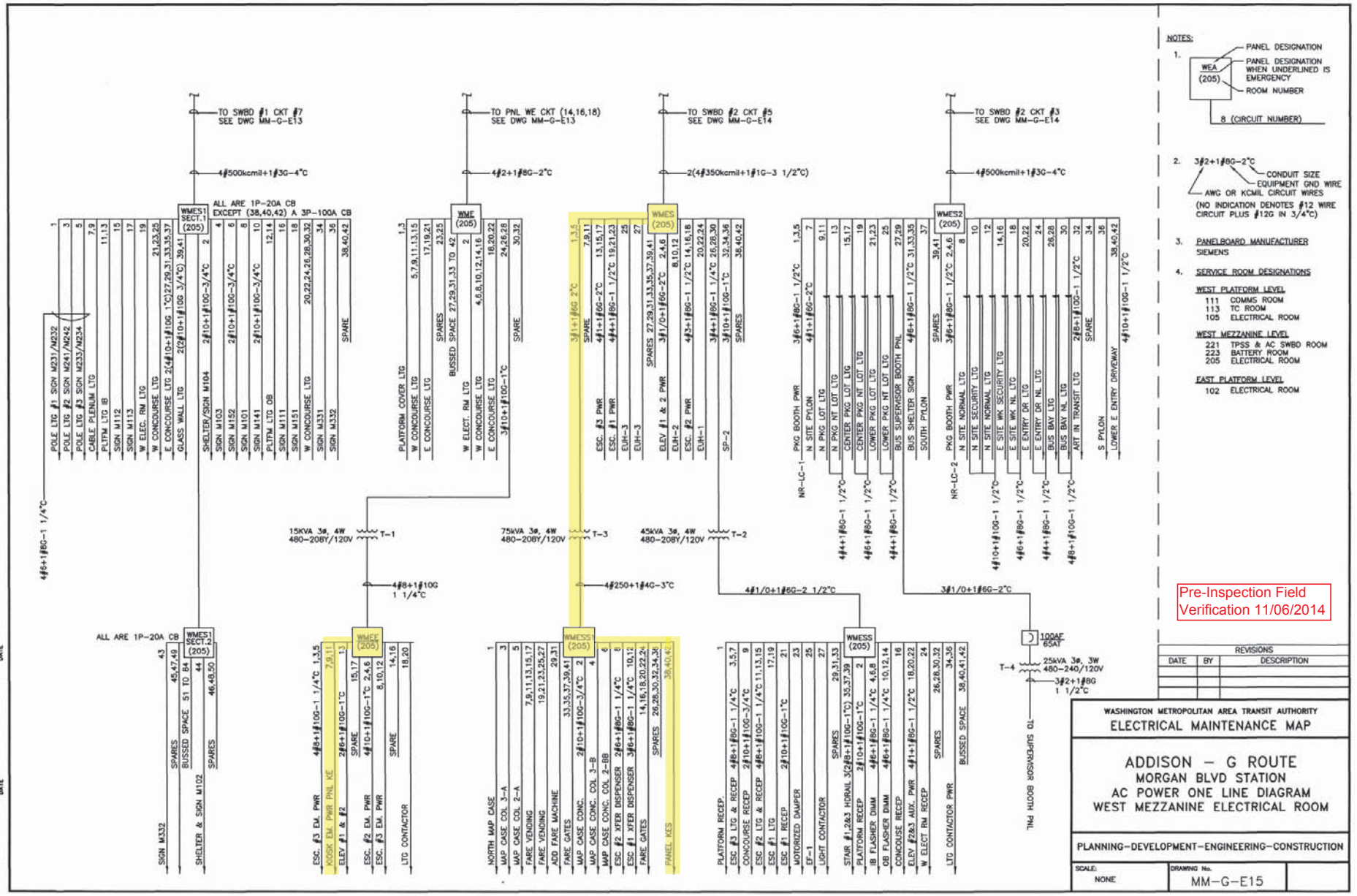
REVISIONS DATE	BY	DESCRIPTION

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
MORGAN BLVD
PANEL SCHEDULE

SCALE NOT TO SCALE
DRAWING NO. G04-E-102


TO SWBD #1 CKT #7
SEE DWG MM-G-E13
4#500kcmil+1#3G-4°C
WMES1 SECT.1 (205)
ALL ARE 1P-20A CB EXCEPT (38,40,42) A 3P-100A CB
POLE LTG #1 SIGN M231/N232
POLE LTG #2 SIGN M241/N242
POLE LTG #3 SIGN M233/N234
CABLE PLENUM LTG
PLTFM LTG IB
SIGN M112
SIGN M113
W ELEC. RM LTG
W CONCOURSE LTG
E CONCOURSE LTG
GLASS WALL LTG
SHELTER/SIGN M104
SIGN M103
SIGN M152
SIGN M101
SIGN M141
PLTFM LTG OB
SIGN M111
SIGN M151
W CONCOURSE LTG
SIGN M331
SIGN M332
SPARE
4#6+1#8G-1 1/4°C
SIGN M332
SPARES
BUSSED SPACE
SHELTER & SIGN M102
SPARES
ALL ARE 1P-20A CB
WMES1 SECT.2 (205)
TO PNL WE CKT (14,16,18)
SEE DWG MM-G-E13
4#2+1#8G-2°C
WME (205)
PLATFORM COVER LTG
W CONCOURSE LTG
E CONCOURSE LTG
SPARES
BUSSED SPACE
W ELECT. RM LTG
W CONCOURSE LTG
E CONCOURSE LTG
SPARE
TO SWBD #2 CKT #5
SEE DWG MM-G-E14
2(4#350kcmil+1#1G-3 1/2°C)
WMES (205)
3#1+1#6G 2°C
SPARE
ESC. #3 PWR
ESC. #1 PWR
EUH-3
EUH-3
SPARES
ELEV #1 & 2 PWR
EUH-2
ESC. #2 PWR
EUH-1
SP-2
SPARES
TO SWBD #2 CKT #3
SEE DWG MM-G-E14
4#500kcmil+1#3G-4°C
WMES2 (205)
NR-LC-1
PKG BOOTH PWR
N SITE PYLON
N PKG LOT LTG
N PKG NT LOT LTG
CENTER PKG LOT LTG
CENTER PKG NT LOT LTG
LOWER PKG LOT LTG
LOWER PKG NT LOT LTG
BUS SUPERVISOR BOOTH PNL
BUS SHELTER SIGN
SOUTH PYLON
SPARES
NR-LC-2
PKG BOOTH PWR
N SITE NORMAL LTG
N SITE SECURITY LTG
E SITE WK SECURITY LTG
E SITE WK NL LTG
E ENTRY DR LTG
E ENTRY DR NL LTG
BUS BAY LTG
BUS BAY NL LTG
ART IN TRANSIT LTG
SPARE
S PYLON
LOWER E ENTRY DRIVEWAY
4#10+1#10G-1 1/2°C
15kVA 3ø, 4W
480-208Y/120V
T-1
4#8+1#10G
1 1/4°C
ESC. #3 EM. PWR
KIOSK EM. PWR PNL KE
ELEV #1 & #2
SPARE
ESC. #2 EM. PWR
ESC. #3 EM. PWR
SPARE
LTG CONTACTOR
75kVA 3ø, 4W
480-208Y/120V
T-3
4#250+1#4G-3"C
WMESS1 (205)
NORTH MAP CASE
MAP CASE COL 3-A
MAP CASE COL 2-A
FARE VENDING
FARE VENDING
ADD FARE MACHINE
FARE GATES
MAP CASE CONC.
MAP CASE CONC. COL 3-B
MAP CASE CONC. COL 2-BB
ESC #2 XFER DISPENSER
ESC #1 XFER DISPENSER
FARE GATES
PANEL KES
45kVA 3ø, 4W
480-208Y/120V
T-2
4#1/0+1#6G-2 1/2°C
WMESS (205)
PLATFORM RECEP
ESC #3 LTG & RECEP
CONCOURSE RECEP
ESC #2 LTG & RECEP
ESC #1 LTG
ESC #1 RECEP
MOTORIZED DAMPER
EF-1
LIGHT CONTACTOR
SPARES
STAIR #1,2&3 NORMAL
PLATFORM RECEP
IB FLASHER DIMM
OB FLASHER DIMM
CONCOURSE RECEP
ELEV #2&3 AUX. PWR
W ELECT RM RECEP
SPARES
LTG CONTACTOR PWR
BUSSED SPACE
3#1/0+1#6G-2"C
100AF
65AT
T-4
25kVA 3ø, 3W
480-240/120V
3#2+1#8G
1 1/2"C
TO SUPERVISOR BOOTH PNL
NOTES:
1.
WEA (205)
PANEL DESIGNATION
PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
ROOM NUMBER
8 (CIRCUIT NUMBER)
2. 3#2+1#6G-2"C
CONDUIT SIZE
EQUIPMENT GND WIRE
AWG OR KCMIL CIRCUIT WIRES
(NO INDICATION DENOTES #12 WIRE CIRCUIT PLUS #12G IN 3/4"C)
3. PANELBOARD MANUFACTURER
SIEMENS
4. SERVICE ROOM DESIGNATIONS
WEST PLATFORM LEVEL
111 COMMS ROOM
113 TC ROOM
105 ELECTRICAL ROOM
WEST MEZZANINE LEVEL
221 TPSS & AC SWBD ROOM
223 BATTERY ROOM
205 ELECTRICAL ROOM
EAST PLATFORM LEVEL
102 ELECTRICAL ROOM
Pre-Inspection Field Verification 11/06/2014
REVISIONS
DATE
BY
DESCRIPTION
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP
ADDISON – G ROUTE
MORGAN BLVD STATION
AC POWER ONE LINE DIAGRAM
WEST MEZZANINE ELECTRICAL ROOM
PLANNING–DEVELOPMENT–ENGINEERING–CONSTRUCTION
SCALE: NONE
DRAWING No. MM-G-E15
DESIGNED TN 04-21-08 CHECKED BG 11-01-08
DRAWN TN 04-21-08 APPROVED MD 11-01-08

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/06/2014	**Station Name:** Largo Town Center - G05	**Mezzanine #:** 111	**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: WMES Sect 1 Source Breaker Name/Number: Breaker #1, #3, #5 Electrical AFC Panel Name/Number: WMESS1	Rm 117 Rm 117 Rm 101	
☑	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. Power run from Kiosk to AFC Panel is approx. 80' via 3 handholes.

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: WMEE Source Breaker Name/Number: Breaker #1, #3, #5 Panel Name/Number: Kiosk Panel KE	Rm 117 Rm 117 Kiosk	Panel KE located in the Kiosk, Breaker #4 will de-energize emergency power to faregates.

Notes and Discrepancies:

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmeena Sahoo	
Date:	11/06/2014	

Picture 1: G05 Largo Town Center – Manhole in Mezzanine

Picture 2: G05 Largo Town Center – Manholes in Mezzanine

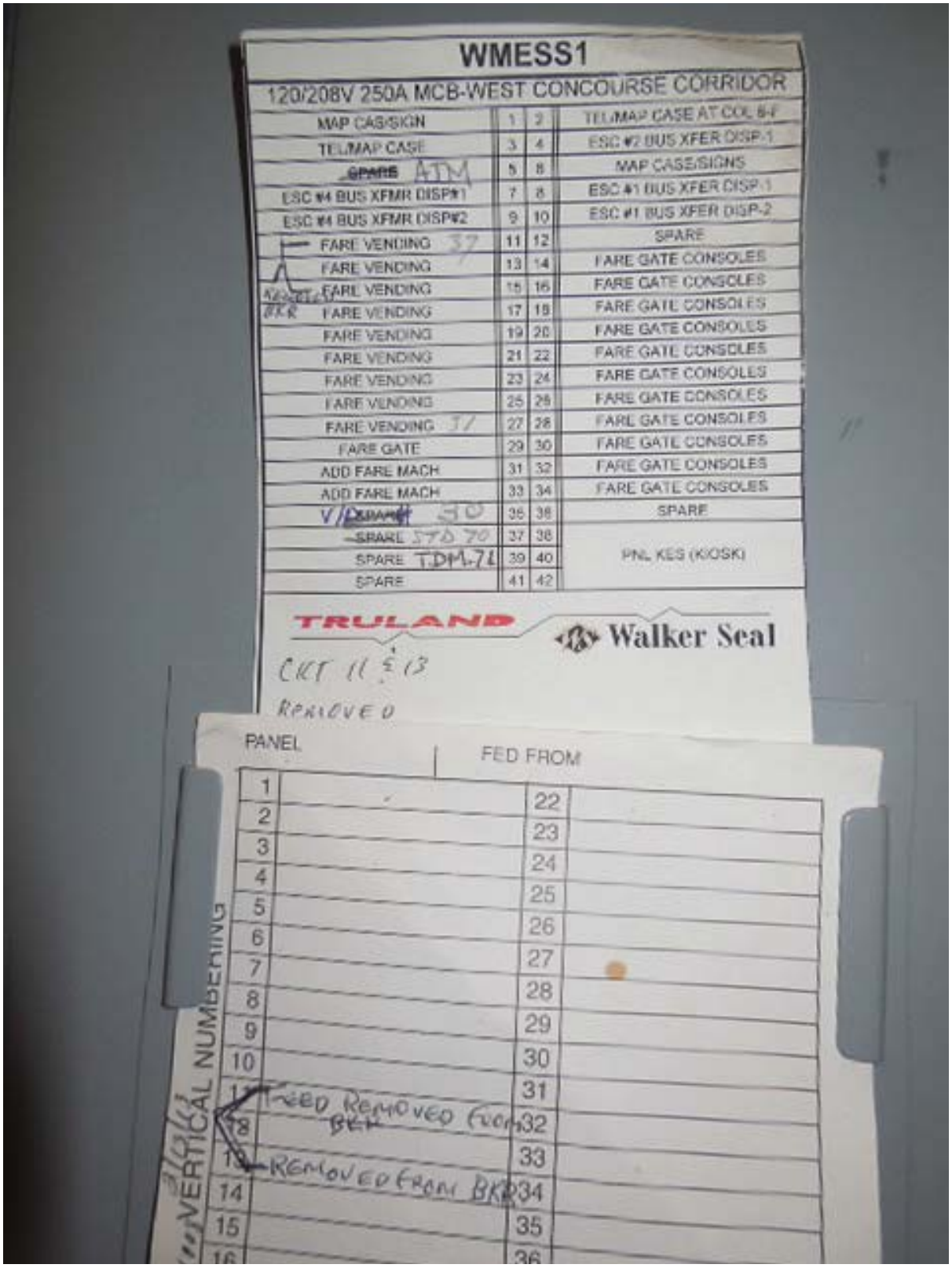
Picture 3: G05 Largo Town Center – Manhole in Service area

Picture 4: G05 Largo Town Center – AFC Panel WMESS1 in Room 117

Picture 5: G05 Largo Town Center – AFC Panel WMESS1 in Room 117

Picture 6: G05 Largo Town Center – AFC Panel WMESS1 in Room 117

Picture 7: G05 Largo Town Center – AFC Panel WMESS1 in Room 117 – Panel schedule



WMESS1

120/208V 250A MCB-WEST CONCOURSE CORRIDOR

MAP CASESIGN	1	2	TEL/MAP CASE AT COL 8-F
TEL/MAP CASE	3	4	ESC #2 BUS XFER DISP-1
~~SPARE~~ ATM	5	6	MAP CASE/SIGNS
ESC #4 BUS XFMR DISP#1	7	8	ESC #1 BUS XFER DISP-1
ESC #4 BUS XFMR DISP#2	9	10	ESC #1 BUS XFER DISP-2
FARE VENDING 37	11	12	SPARE
FARE VENDING	13	14	FARE GATE CONSOLES
FARE VENDING	15	16	FARE GATE CONSOLES
FARE VENDING	17	18	FARE GATE CONSOLES
FARE VENDING	19	20	FARE GATE CONSOLES
FARE VENDING	21	22	FARE GATE CONSOLES
FARE VENDING	23	24	FARE GATE CONSOLES
FARE VENDING	25	26	FARE GATE CONSOLES
FARE VENDING 31	27	28	FARE GATE CONSOLES
FARE GATE	29	30	FARE GATE CONSOLES
ADD FARE MACH	31	32	FARE GATE CONSOLES
ADD FARE MACH	33	34	FARE GATE CONSOLES
V/D ~~SPARE~~ 30	35	36	SPARE
~~SPARE~~ 370 70	37	38	PNL KES (KIOSK)
SPARE TDM-71	39	40	
SPARE	41	42	

TRULAND Walker Seal

CKT 11 & 13

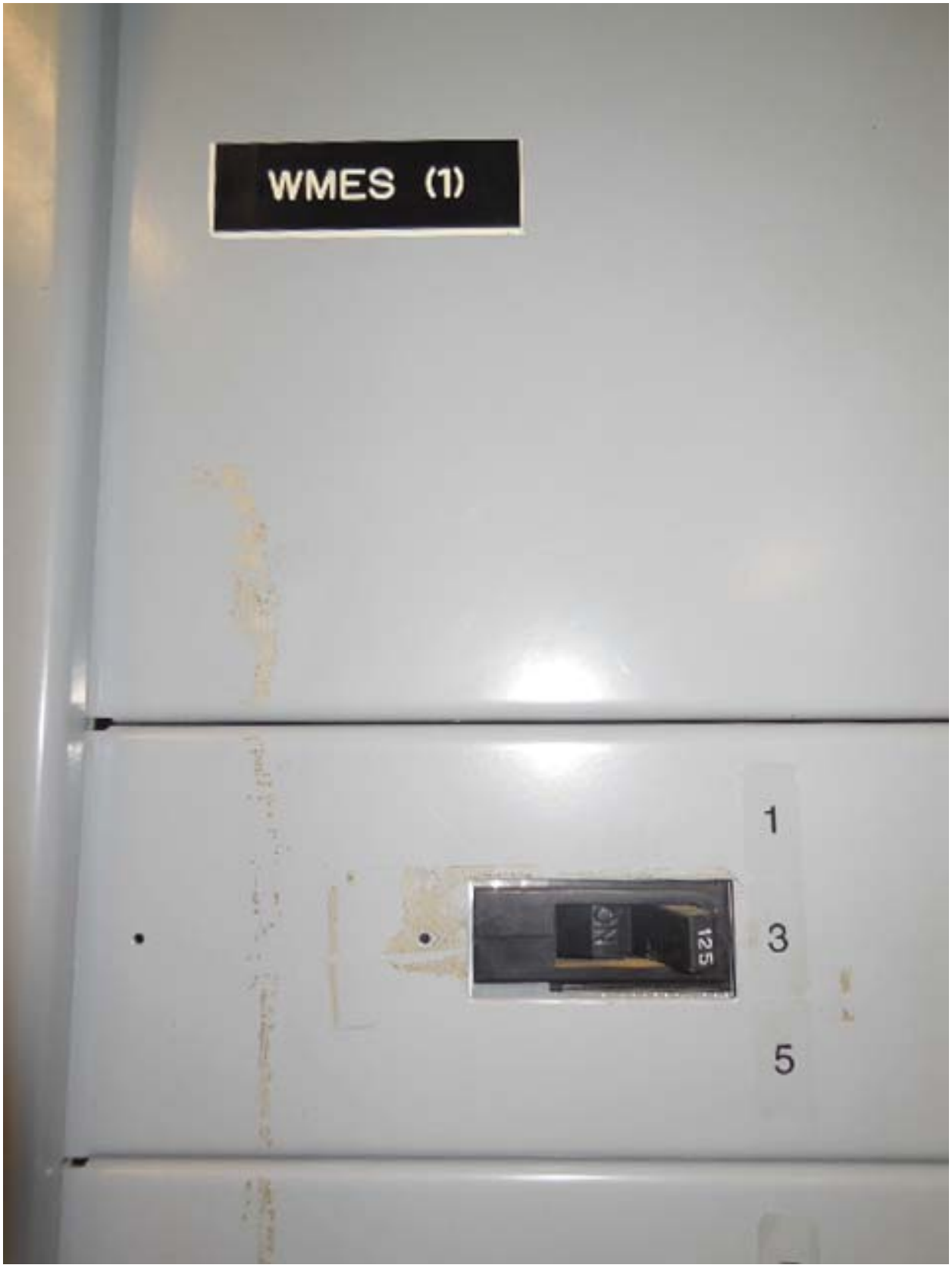
REMOVED

PANEL | FED FROM

1		22	
2		23	
3		24	
4		25	
5		26	
6		27	
7		28	
8		29	
9		30	
10		31	
11	FEED REMOVED FROM BKR	32	
12		33	
13	REMOVED FROM BKR	34	
14		35	
15		36	
16			

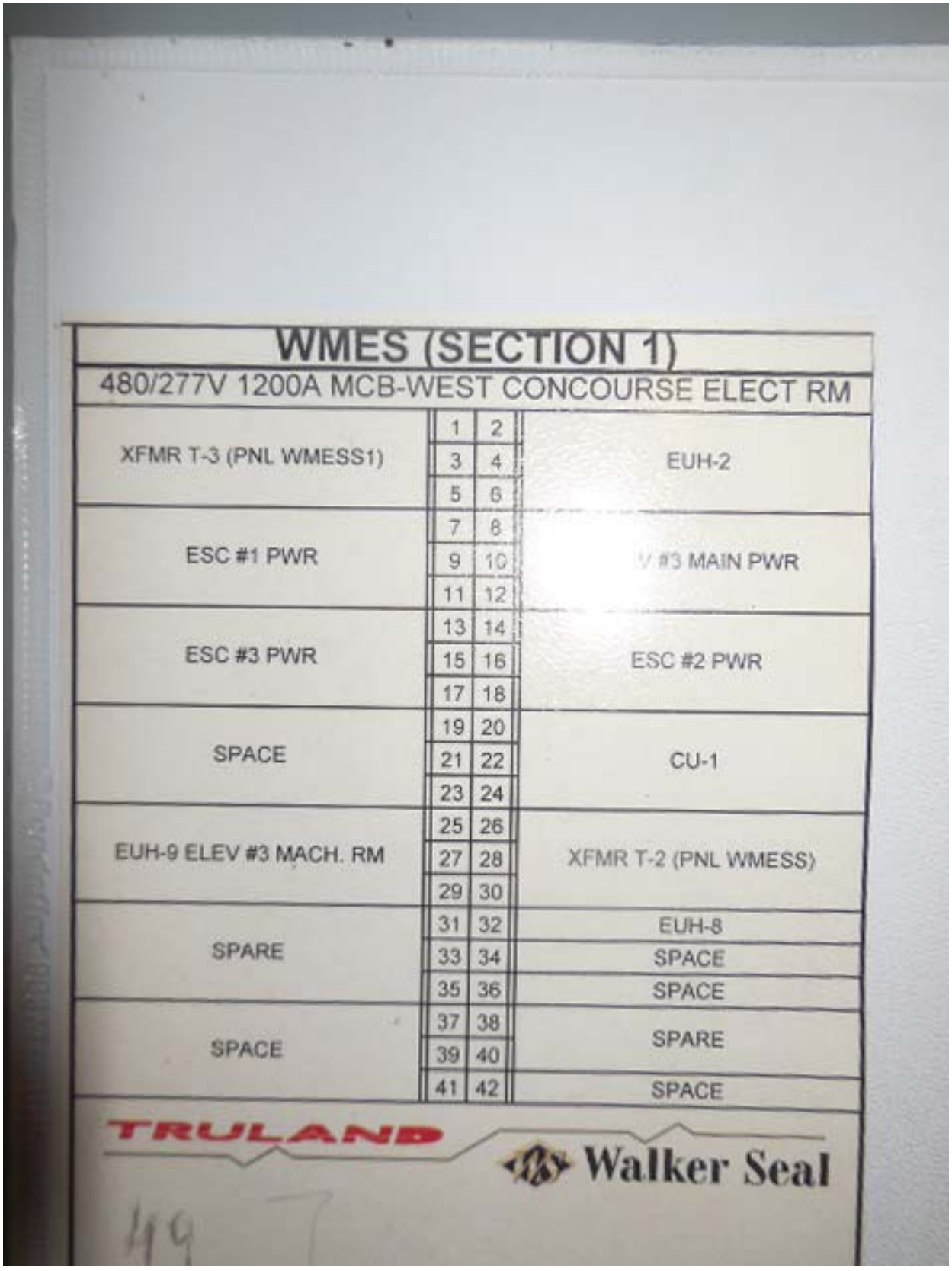
VERTICAL NUMBERING

Picture 8: G05 Largo Town Center – Panel WMES Section 1 in Room 117



Picture 9: G05 Largo Town Center – Panel WMES Section 1 in Room 117 – Breaker 1

Picture 10: G05 Largo Town Center – Panel WMES Section 1 in Room 117 – Panel schedule

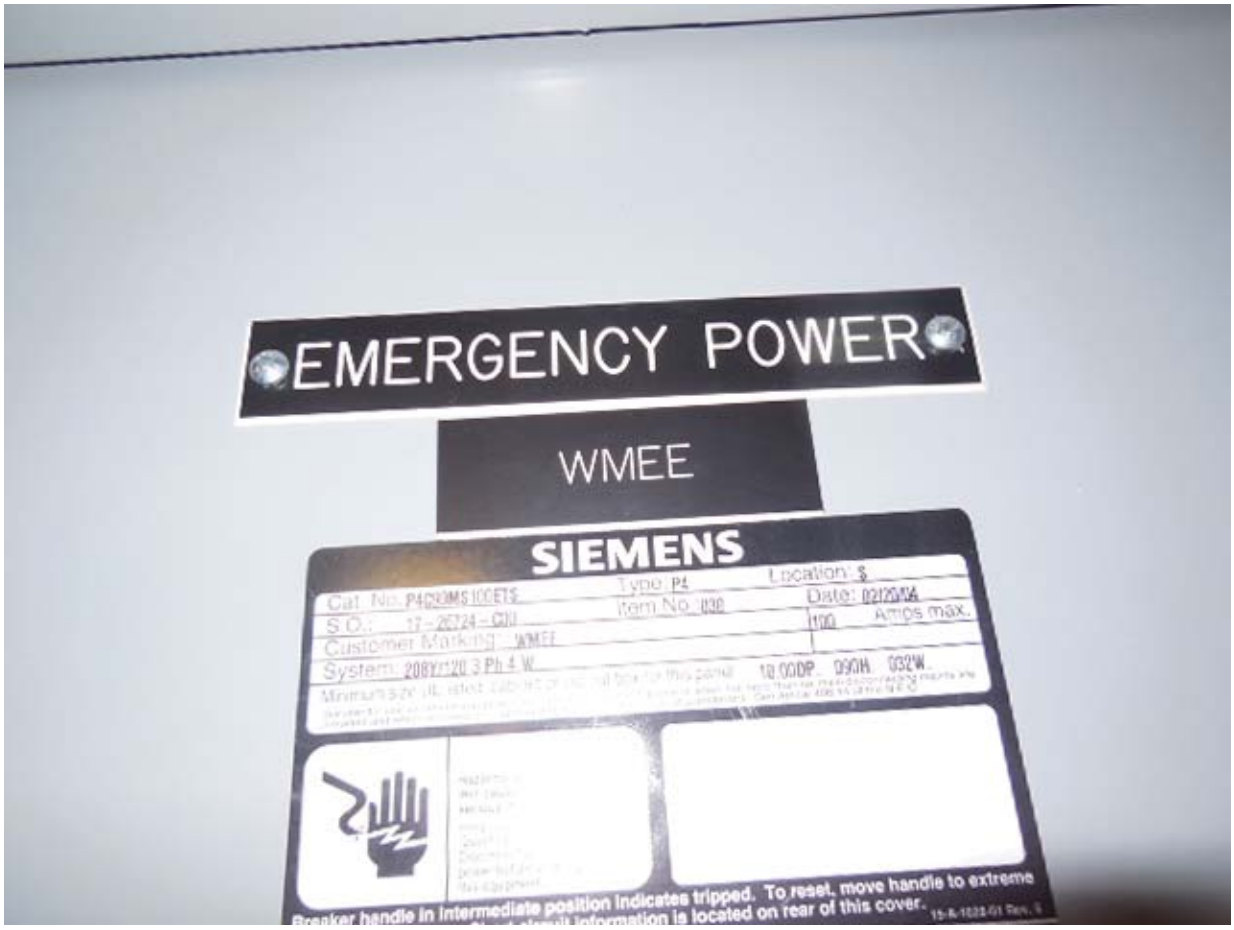


WMES (SECTION 1)			
480/277V 1200A MCB-WEST CONCOURSE ELECT RM			
XFMR T-3 (PNL WMESS1)	1	2	EUH-2
	3	4	
	5	6	
ESC #1 PWR	7	8	V #3 MAIN PWR
	9	10	
	11	12	
ESC #3 PWR	13	14	ESC #2 PWR
	15	16	
	17	18	
SPACE	19	20	CU-1
	21	22	
	23	24	
EUH-9 ELEV #3 MACH. RM	25	26	XFMR T-2 (PNL WMESS)
	27	28	
	29	30	
SPARE	31	32	EUH-8
	33	34	SPACE
	35	36	SPACE
SPACE	37	38	SPARE
	39	40	
	41	42	SPACE

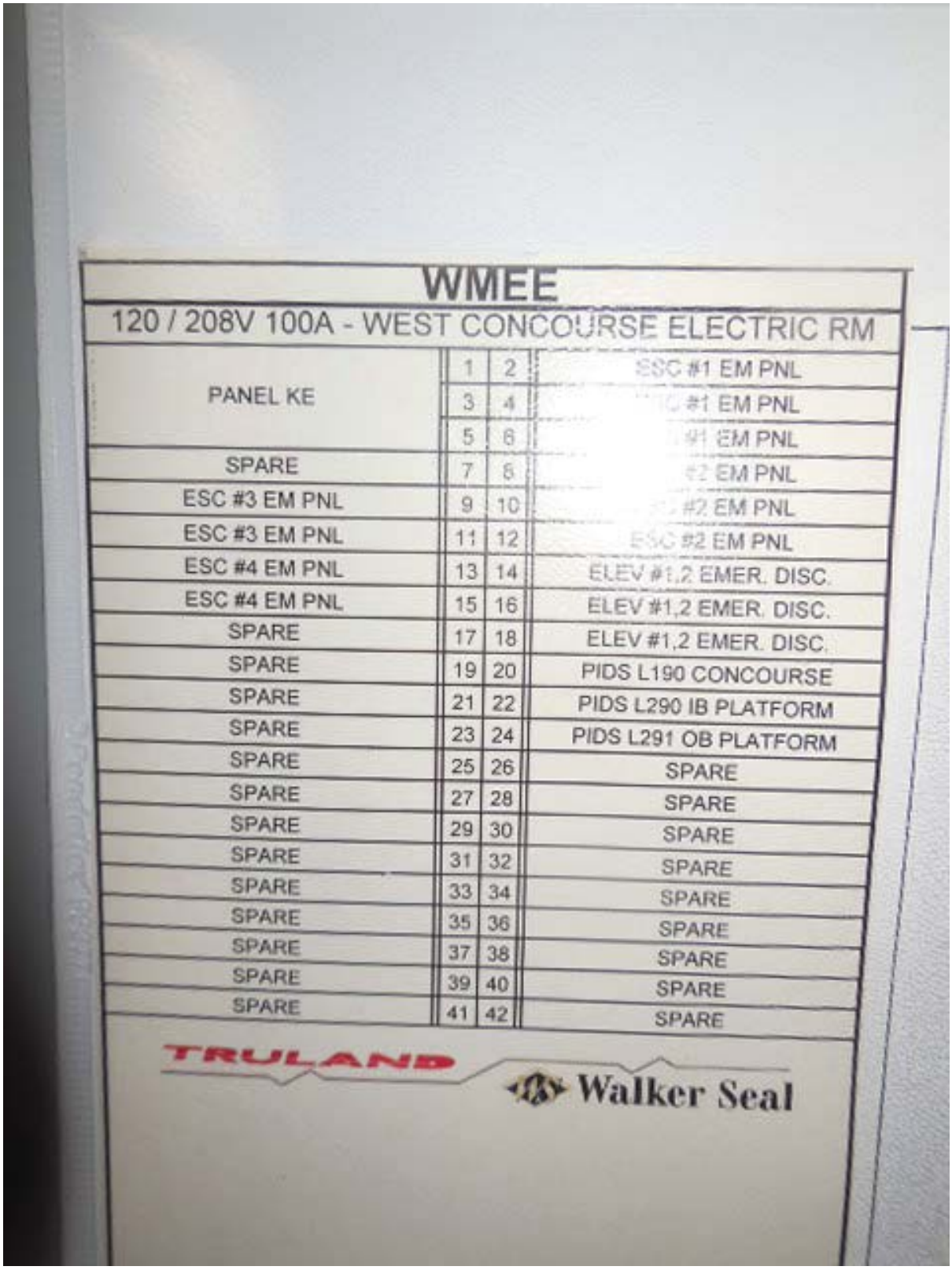
TRULAND Walker Seal

119

Picture 11: G05 Largo Town Center – Emergency Panel WMEE in Room 117



Picture 12: G05 Largo Town Center – Emergency Panel WMEE in Room 117 – Panel schedule



WMEE

120 / 208V 100A - WEST CONCOURSE ELECTRIC RM

PANEL KE	1	2	ESC #1 EM PNL
	3	4	C #1 EM PNL
	5	6	#1 EM PNL
SPARE	7	8	#2 EM PNL
ESC #3 EM PNL	9	10	#2 EM PNL
ESC #3 EM PNL	11	12	ESC #2 EM PNL
ESC #4 EM PNL	13	14	ELEV #1,2 EMER. DISC.
ESC #4 EM PNL	15	16	ELEV #1,2 EMER. DISC.
SPARE	17	18	ELEV #1,2 EMER. DISC.
SPARE	19	20	PIDS L190 CONCOURSE
SPARE	21	22	PIDS L290 IB PLATFORM
SPARE	23	24	PIDS L291 OB PLATFORM
SPARE	25	26	SPARE
SPARE	27	28	SPARE
SPARE	29	30	SPARE
SPARE	31	32	SPARE
SPARE	33	34	SPARE
SPARE	35	36	SPARE
SPARE	37	38	SPARE
SPARE	39	40	SPARE
SPARE	41	42	SPARE

TRULAND Walker Seal

Pre-Inspection Field Verification 11/06/2014

EXISTING PANEL "WMESS1" ✓

AMPERES: 250	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 250A MCB	PHASE: 3	LOCATION: FIRE EQUIP. CABINET & SERVICE RM 101 ✓	
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	
	SPARE	0.0	20	1	3	- B -	4	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	1
1	EXISTING VENDOR	0.8	20	1	5	- - C	6	1	20	0.0	SPARE (KIOSK)	1&2
1&2	SPARE	0.0	20	1	7	A - -	8	1	20	0.0	SPARE	
	SPARE	0.0	20	1	9	- B -	10	1	20	0.0	SPARE	
	SPARE	0.0	20	1	11	- - C	12	1	20	0.0	SPARE	
	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	0.8	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	0.8	EXISTING VENDOR	
	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	0.8	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	0.8	EXISTING VENDOR	
	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		
	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	12.8 x 50%		6.4 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	0.0 x 125%		0.0 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	3.0 x 125%		3.8 KVA
TOTAL CONNECTED LOAD	**30.3 KVA**	**TOTAL DEMAND KVA**	**24.7 KVA**
		TOTAL DEMAND AMPS	**68.5 AMPS**
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	10.9 KVA		
PHASE B:	10.5 KVA		
PHASE C:	8.9 KVA		

NOTES: A. EXISTING PANEL ✓ "WMESS1" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "WMES" LOCATED IN ELECTRICAL ROOM 117, CIRCUIT 1,3,5–125/3P, VIA 75KVA TRANSFORMER (SEE ATTACHED MM–G–E21).

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

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

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NOO 08-14 DATE
DRAWN C. NOO 08-14 DATE
CHECKED B. KELLY 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
LARGO TOWN CENTER
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO: G05-E-102

TO SWBD #1 CKT #11
SEE DWG MM-G-E19
4#500kcmil+1#2G-4"C
WMES1 SECT.1 (117)
ALL ARE 1P-20A CB EXCEPT (38,40,42) A 3P-225A CB
SIGN L214
WINDSCREEN LTG
PLTFM POLE LTG 4#10+1#10G-3/4"C
IB W PTFM LTG 4#10+1#10G-3/4"C
CONCOURSE LTG COL 20 TO 24
S PAVILION LTG
SIGN L234, L235, L236, L237
OB E PTFM CANOPY LTG
OB W PTFM CANOPY LTG
DIARAMA
PLTFM SIGN 230
IB E PLTFM CANOPY LTG
PLTFM SIGN L211, 212, 213
PLTFM SIGN L202
CONCOURSE SIGN L130
S PAVILION LTG
CONCOURSE CLG LTG
WALL WASHER LTG
225A SPARE CB 38,40,42
2#10+1#10G 3/4"C
3#10+2#10G 1"C
4#10+1#10G 1"C
2#10+1#10G 3/4"C
W ELECT RM LTG
PLTFM SIGN L202
ESC #4 EQ RM UH-8 4#10+1#10G-3/4"C 47
SPARES
PAVILION CANOPY AND ST LEVEL SIGN
PLTFM SIGN L201
PAVILION SIGN (LL) L110
WINDSCREEN
WINDSCREEN DIARAMA
NEXT TRAIN SIGN
S SIDEWALK LTG
S PARKING LOT LTG
ANCILLARY LTG
CONNECTOR LTG
PLTFM GLASS WALL LTG 2#10+1#10G-3/4"C
CONC. GLASS WALL LTG
N BUS LOOP LTG (62,64,66),(68,70,72)
ART IN TRANSIT 2#10+1#10G-1"C
S PAVILION GLASS WALL 2#10+1#10G-1"C
SPARES
VIA LIGHTING CONTACTORS
4#10+1#10G-2"C
4#4+1#8-2"C
2(4#6+1#8G-1 1/2"C)
WMES1 SECT.2 (117)
ALL ARE 1P-20A CB
TO SWBD #1 CKT #3
SEE DWG MM-G-E19
4(4#500kcmil+1#2G-4"C)
WMES SECT.1 (117)
WMES SECT.2 (117)
ALL ARE 1P-20A CB, EXCEPT (43,45,47) A 3P-20A CB & (44,46,48) A 3P-60A CB
ESC. #1 PWR
ESC. #3 PWR
ESC. #4 PWR
ELEV-9 ELEV. #3 MACH. RM
ELEV #1&2 PWR
ELEV #3 PWR
ESC. #2 PWR
EUH-8 ESC #4 RM
EUH-2 STORAGE RM
CU-1
BUS SUPERV BOOTH
EUH-1
EWH-1
SPARES (1P-20A CB)
49 TO 84
75kVA 3ø, 4W 480-208Y/120V T-3
4#250kcmil+1#4G-3 1/2"C
ALL ARE 1P-20A CB, EXCEPT (38,40,42) A 3P-40A CB
WMESS (101)
MAP CASE/SIGN
TEL/NAP CASE
ESC #4 XFER DISP
FARE VENDING
FARE GATES
ADD FARE MACHINES
ESC #2 XFER DISP
ESC #1 XFER DISP
FARE GATES
PANEL KES
75kVA 3ø, 4W 480-208Y/120V T-2
4#250kcmil+1#4G-3 1/2"C
WMESS SECT.1 (117)
ALL ARE 1P-20A CB, EXCEPT (15,17,19) & (21,23,25) 3P-30A CB
4#6+1#10G-1 1/4"C
CONCOURSE RECEP
ESC #1 LTG, RECEP, SUMP PUMP
ELEV #1&2 AUX PWR
ELEV #3 AUX PWR
OI-2 DISPLAY PNL
EWH-1
CONCOURSE RECEP
ESC #3 PNL
ESC #2 PNL
ESC #4 PNL
AUX RM RECEP
EF-4 & DAMPER
EWC
EWH-3
GARBAGE DISPOSAL
EF-1,2,3
EWH-2
RECEP-KITCHEN COUNTER
TO EMERG PANEL WEL
CKT #26,28,30
SEE DWG MM-E-19
4#3+1#8G-1 1/4"C
WME (117)
4#10+1#10G-1"C
IB PLTFM CANOPY EM LTG
SPARE
CONCOURSE EM LTG
ANCILLARY RM EM LTG
PLTFM POLE EM LTG
OB PLTFM CANOPY EM LTG
S PAVILION CANOPY EM LTG
CONNECTOR EM LTG
SPARES
30kVA 3ø, 4W 480-208Y/120V T-1
4#3+1#8G-1 1/2"C
WMEE (117)
KIOSK EM PNL KE
ESC #3 EM PWR
ESC #4 EM PWR
ESC #1 EM PWR
ESC #2 EM PWR
ELEV #1&2 EM PWR
ELEV #3 EM PWR
ELEV #1&2 EM LTG
EL ELEV RM
WMESS SECT.2 (117)
RECEPS
MACHINE RM LTG
ELEV #1 PIT S PUMP
MACHINE RM LTG
ELEV #2 PIT S PUMP
FCU-1
PIT RECEP
EF-10
IB FLA. DIM.
IB PLTFM RECEPS
STAIR #3 HRAIL LTG
W ELEC RM RECEPS
STAIR #2 HRAIL LTG
STAIR #1 HRAIL LTG
OVERHEAD GRILLE
OB FLA. DIM.
STAIR #4 HANDRAIL LTG
CP-1
AC-1 (STORAGE RM)
NOTES:
1. WSA (205) — PANEL DESIGNATION; PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY; ROOM NUMBER; 8 (CIRCUIT NUMBER)
2. 3#2+1#8G-2"C — CONDUIT SIZE; EQUIPMENT GND WIRE; AWG OR KCMIL CIRCUIT WIRES
(NO INDICATION DENOTES #12 WIRE CIRCUIT PLUS #12G IN 3/4"C)
3. PANELBOARD MANUFACTURER SIEMENS
4. SERVICE ROOM DESIGNATIONS
WEST PLATFORM LEVEL
219 COMMS ROOM
221 TC ROOM
WEST MEZZANINE LEVEL
123 AC SWBD ROOM
121 BATTERY ROOM
117 ELECTRICAL ROOM
101 SERVICE ROOM ENTRANCE
EAST PLATFORM LEVEL
204 ELECTRICAL ROOM
EAST MEZZANINE LEVEL
102 AC SWBD ROOM
104 BATTERY ROOM
Pre-Inspection Field Verification 11/06/2014
REVISIONS
DATE | BY | DESCRIPTION
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP
ADDISON – G ROUTE
LARGO TOWN CENTER STATION
AC POWER ONE LINE DIAGRAM
MEZZ. CONCOURSE ELECTRICAL RM
PLANNING–DEVELOPMENT–ENGINEERING–CONSTRUCTION
SCALE: NONE
DRAWING No. MM-G-E21
DESIGNED TN 06-21-06
DRAWN TN 06-21-06
CHECKED DATE
APPROVED DATE
BD 11-01-06
NO 11-01-06

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/09/2014	**Station Name:** J02 Van Dorn Street	**Mezzanine #:** 094	**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:	Existing SWBD "1"	110	
		Source Breaker Name/Number:	Panel "NF" (Breaker #4)	110	
		Electrical AFC Panel Name/Number:	Panel NF	110	
☑	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 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)		All conduits are on one level
		Identified Conduit/Duct Transition to mezzanine level?	YES		

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:	NEE Section 2	110	
		Source Breaker Name/Number:	Breaker #9	110	
		Panel Name/Number:	Kiosk Emergency Panel	Kiosk	

Notes and Discrepancies: Panel KE (Breaker #4) in Kiosk will de-energize emergency power to faregates.

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmeen Sahoo	
Date:	10/09/2014	

Photo #1: J02 Van Dorn Street – Kiosk to Mezzanine Level Handhole

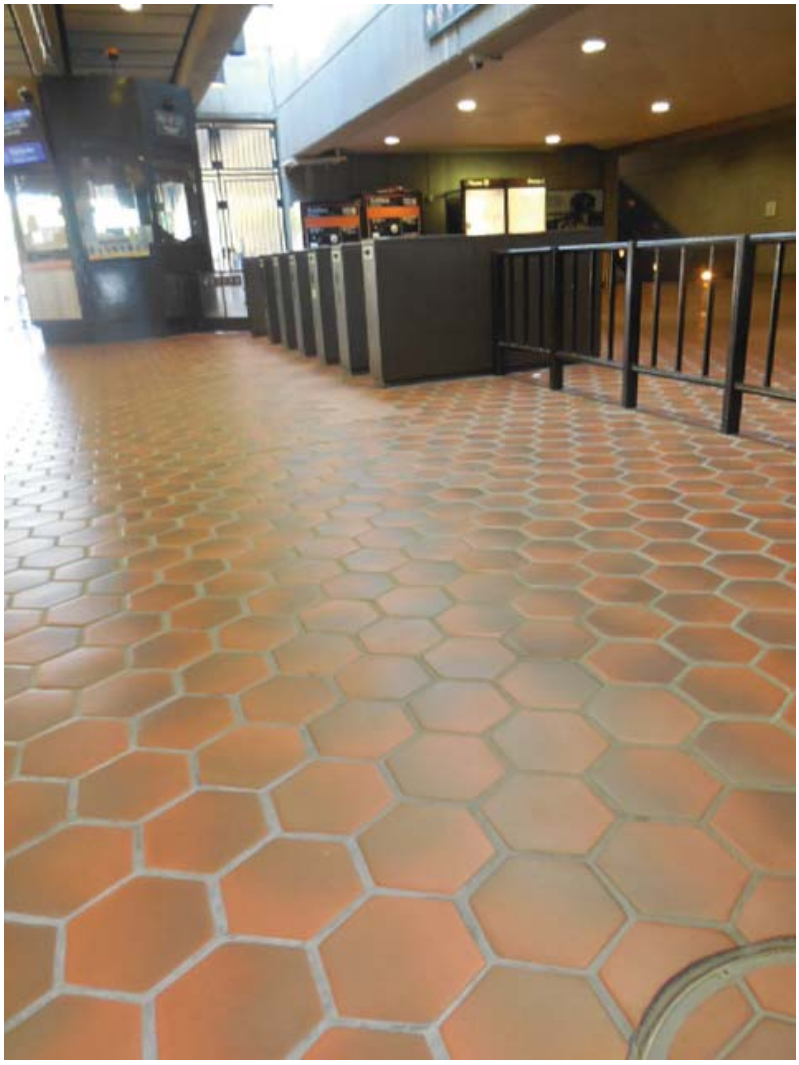


Photo #2: J02 Van Dorn Street – Mezzanine Level Handhole

Photo #3: J02 Van Dorn Street – Ducts feeding into bottom of AFC panel NF in Room 110

Photo #4: J02 Van Dorn Street – Bottom of AFC panel NF in Room 110

Photo #5: J02 Van Dorn Street – AFC panel NF in Room 110

Photo #6: J02 Van Dorn Street – Label of AFC panel NF in Room 110

Photo #7: J02 Van Dorn Street – Source breaker for AFC panel NF in Room 110

Photo #8: J02 Van Dorn Street – Label for Kiosk Emergency feed Source Panel NEE in Room 110

Photo #9: J02 Van Dorn Street – Label for Kiosk Emergency feed Source Breaker “Kiosk” in Room 110

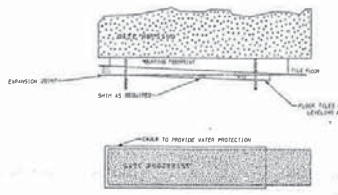
Pre-inspection Field Verification 10/9/2014

NOTES:

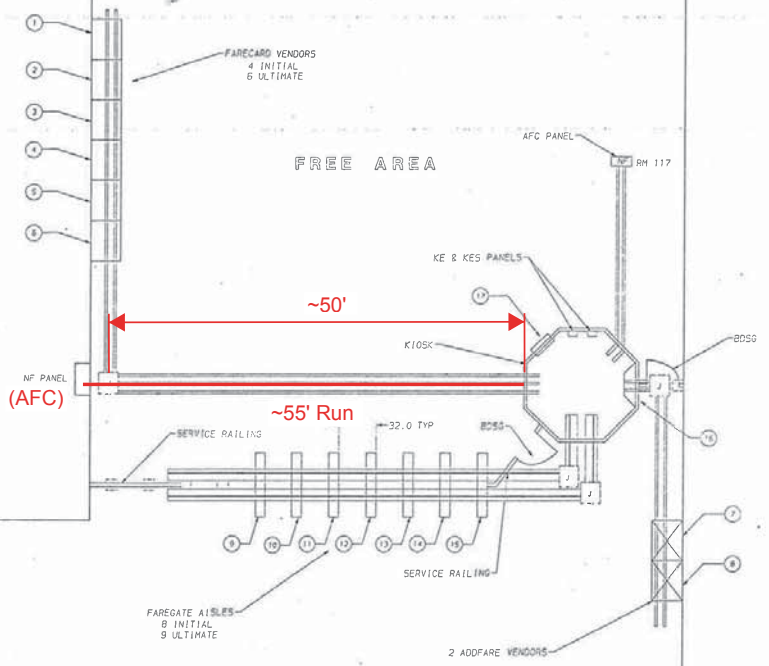
1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL; 1,3 & 5; 7,9 & 11; 22 & 24; 15,16 & 18; 10,12 & 14.

ITEM	NAME	S/N	PANEL AFC	1/25 BREAKER
1	VENDOR	FUTURE	NF	1
2	VENDOR	FUTURE	NF	3
3	VENDOR	1855	NF	5
4	VENDOR	1815	NF	7
5	VENDOR	1831	NF	9
6	VENDOR	1807	NF	11
7	ADDFARE	2806	NF	22
8	ADDFARE	2825	NF	24
9	ENTRY GATE	3821	NF	8
10	REV. GATE	7868	NF	10
11	REV. GATE	7872	NF	12
12	REV. GATE	7874	NF	14
13	REV. GATE	7882	NF	16
14	REV. GATE	7885	NF	18
15	EXIT GATE	4818	NF	N/A
16	SMADS	8815	KE	1
17	S. CLOCK	98984	KES	8
18	EMERGENCY LT		KE	4

REVISIONS			
ITEM NO	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/10/92	R. WHITE
B	DCN 028905 BJC 03/20/92		



NON-TYP GATE INSTALLATION



MEZZANINE NO. 94

SEE SEPARATE PL WHEN ITEM NUMBERS ARE USED PREF DESIGNATOR MAY BE USED IN LIEU OF ITEM NUMBERS

NEXT ASSY:

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED

HOLE DIA	TOLERANCES
.0135 THRU .125	+.004 -.001
.126 THRU .250	+.005 -.001
.251 THRU .500	+.006 -.001
.501 THRU .750	+.008 -.001
.751 THRU 1.000	+.010 -.001

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES

LINEAR .XX ±.03 .XXX ±.010 ANGULAR ±0°30'

DRAWN R. O'DONNELL DATE 24 OCT 1996 FILE NAME

FILE LOCATION

DATE

CUBIC AUTOMATED REVENUE COLLECTION SYSTEMS

TITLE VAN DORN STATION MEZZANINE LAYOUT

CONTRACT NO. 87680 DWG NO. 931-4017 REV B

SCALE 1/35 SHEET 1 OF 1

Pre-inspection Field Verification 10/9/2014

EXISTING PANEL "NF"

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 200A MCB	PHASE: 3	LOCATION: AC SWBD ROOM 110	
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
SPARE	0.0	20	1	1	A - -	2	3	30	2.9	EXIST. LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	3	- B -	4	-	-	2.5	
EXISTING VENDOR	0.8	20	1	5	- - C	6	-	-	2.5	
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
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
1&2 SPARE (KIOSK)	0.0	20	1	19	A - -	20	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
SPARE	0.0	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
EXISTING VENDOR	0.8	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	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	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:	6.9 KVA
PHASE B:	8.9 KVA
PHASE C:	8.1 KVA

Breaker "Panel NF" (Breaker #4) - 100/3P

NOTES:
A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD "1" LOCATED IN AC SWBD ROOM 110, ~~CIRCUIT #4 100/3P VIA~~ 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-J&H-E06).
B. EXISTING WIRING FED FROM BOTTOM PANEL BY:
- 2-6 1/2"x 1 1/2" FLOOR DUCTS (1-EMPTY FLOOR DUCT & 1-WIRING FILL >40%).
- 2-1/2" C. (1-WIRING FILL >40% & 1-EMPTY CONDUIT).

EXISTING WIRING FED FROM TOP PANEL BY:
- 6-1/2" C. (3-WIRING FILL >40% & 3-EMPTY CONDUIT)

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

CONTRACT NO 14-FQ10060-CENI-24

DESIGNED C. NGO	08-14 DATE	REFERENCE DRAWINGS	REVISIONS
DRAWN C. NGO	08-14 DATE	NUMBER / DESCRIPTION	DATE / BY / DESCRIPTION
CHECKED B. KOLBI	08-14 DATE		
APPROVED N/A	DATE		

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

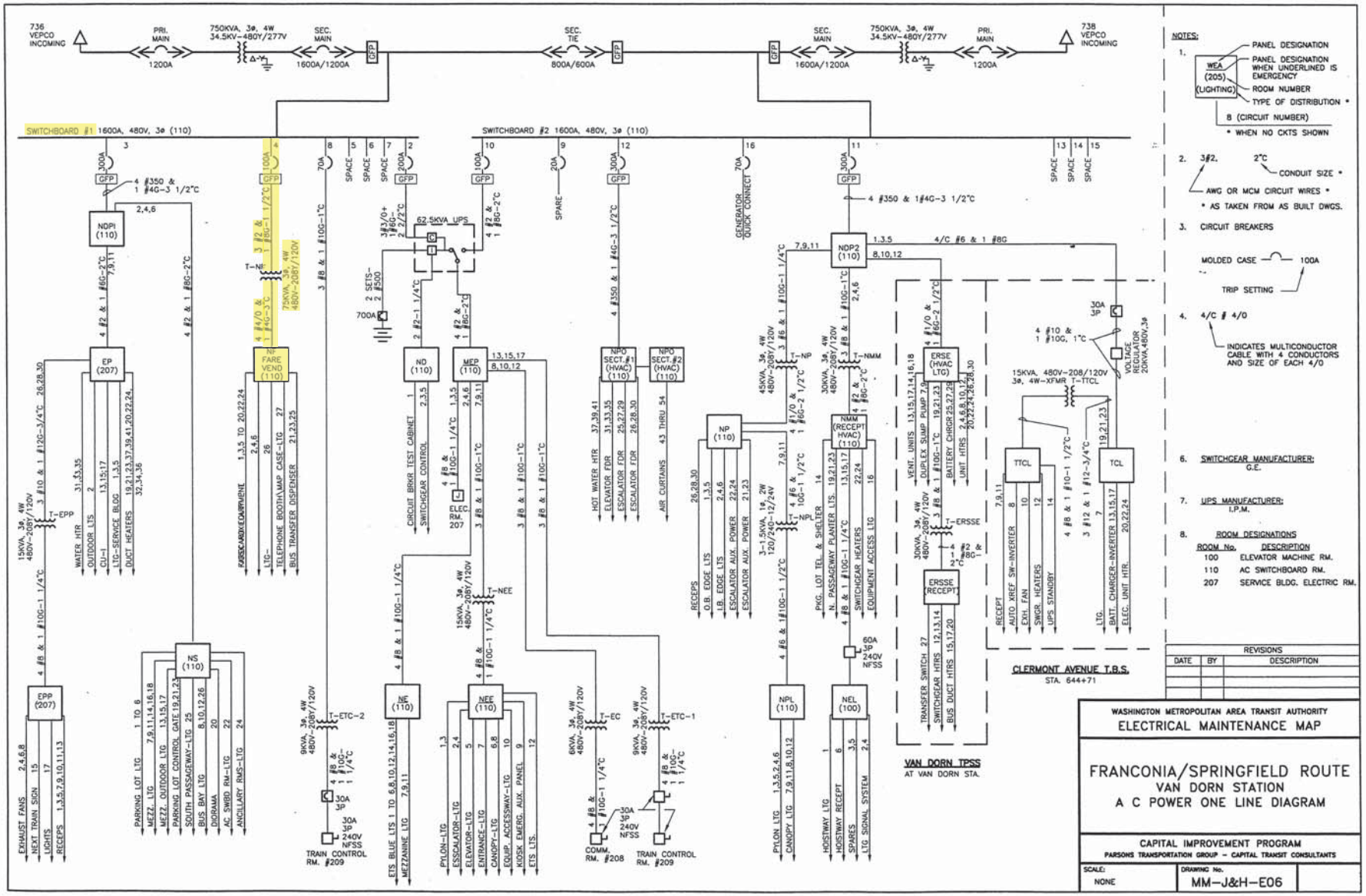
SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
VAN DORN STREET
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO: J02-E-102

Pre-inspection Field Verification 10/9/2014



O:\ELECT\NewMaint\Map\New\MM-J&H-E06.dwg Tue Jun 06 10:46:10 2000 LP

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/09/2014	**Station Name:** J03 Franconia-Springfield	**Mezzanine #:** 095	**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:	Existing SWB2 "2"	216	
		Source Breaker Name/Number:	"Panel FF (via T6)" (Breaker #6)	216	
		Electrical AFC Panel Name/Number:	Panel FF	216	
☑	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 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)		All conduits and duct are on the same level
		Identified Conduit/Duct Transition to mezzanine level?	YES		

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:	EE	216	
		Source Breaker Name/Number:	Breaker #7	216	
		Panel Name/Number:	KE	Kiosk	

Notes and Discrepancies: Panel KE (Breaker #12) in Kiosk de-energizes emergency power to faregates.

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmina Sahoo	
Date:	10/9/2014	

Photo #1: J03 Franconia-Springfield – Station Kiosk Area

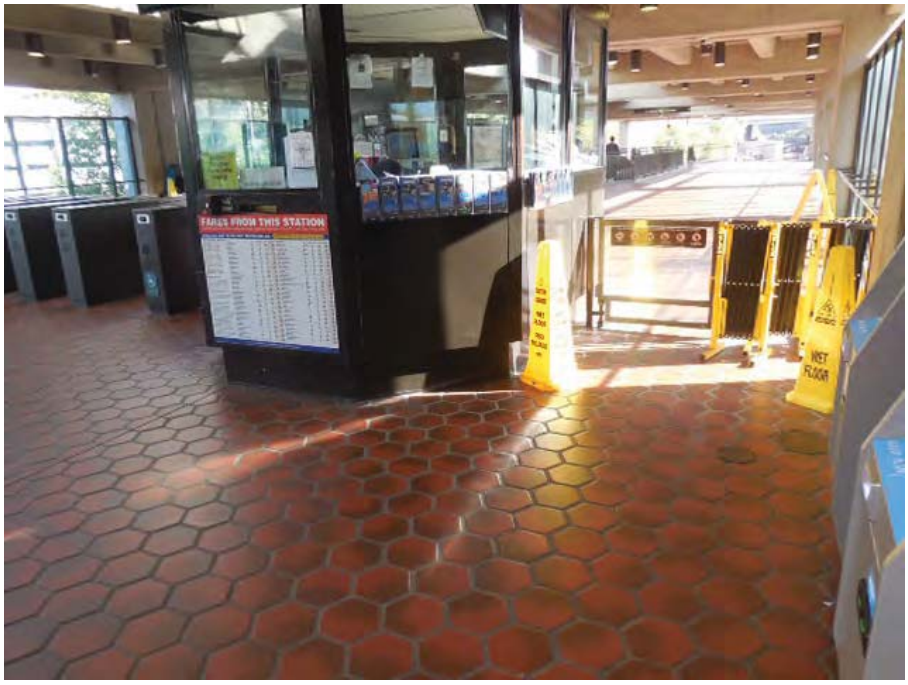


Photo #2: J03 Franconia-Springfield – Handholes near station Kiosk

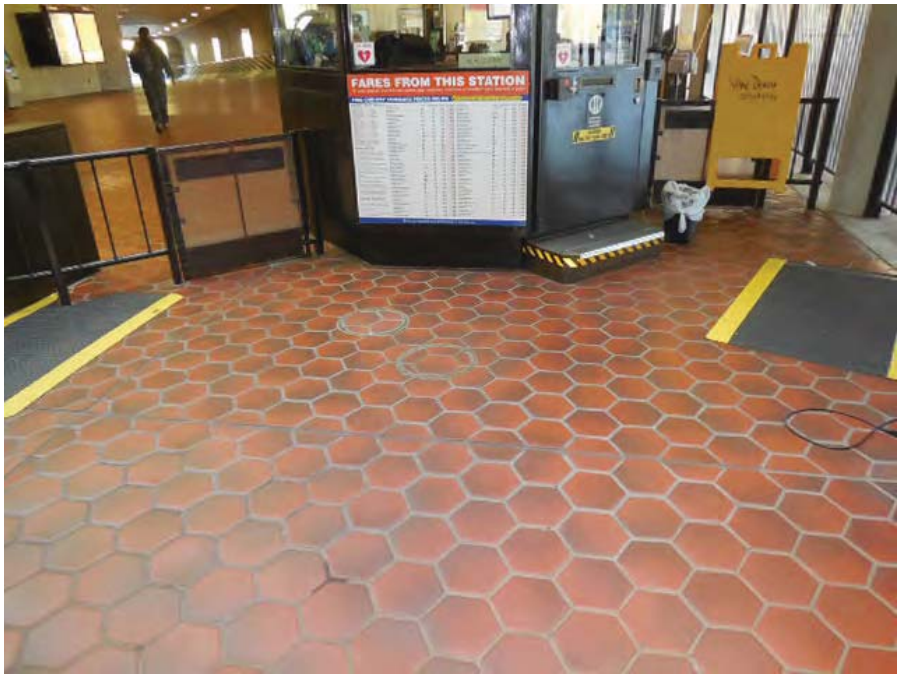


Photo #3: J03 Franconia-Springfield – Handholes near station Kiosk

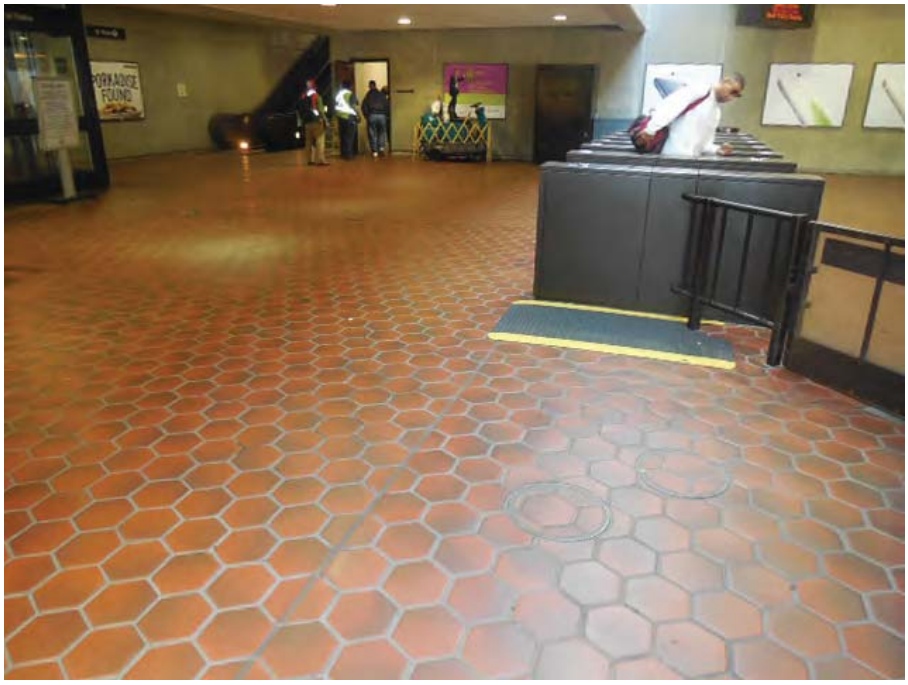


Photo #4: J03 Franconia-Springfield – Handholes in mezzanine floor

Photo #5: J03 Franconia-Springfield – Ducts feeding into trough in Room 216

Photo #6: J03 Franconia-Springfield – Bottom of AFC Panel FF feeding into trough in Room 216

Photo #7: J03 Franconia-Springfield – AFC Panel FF in Room 216

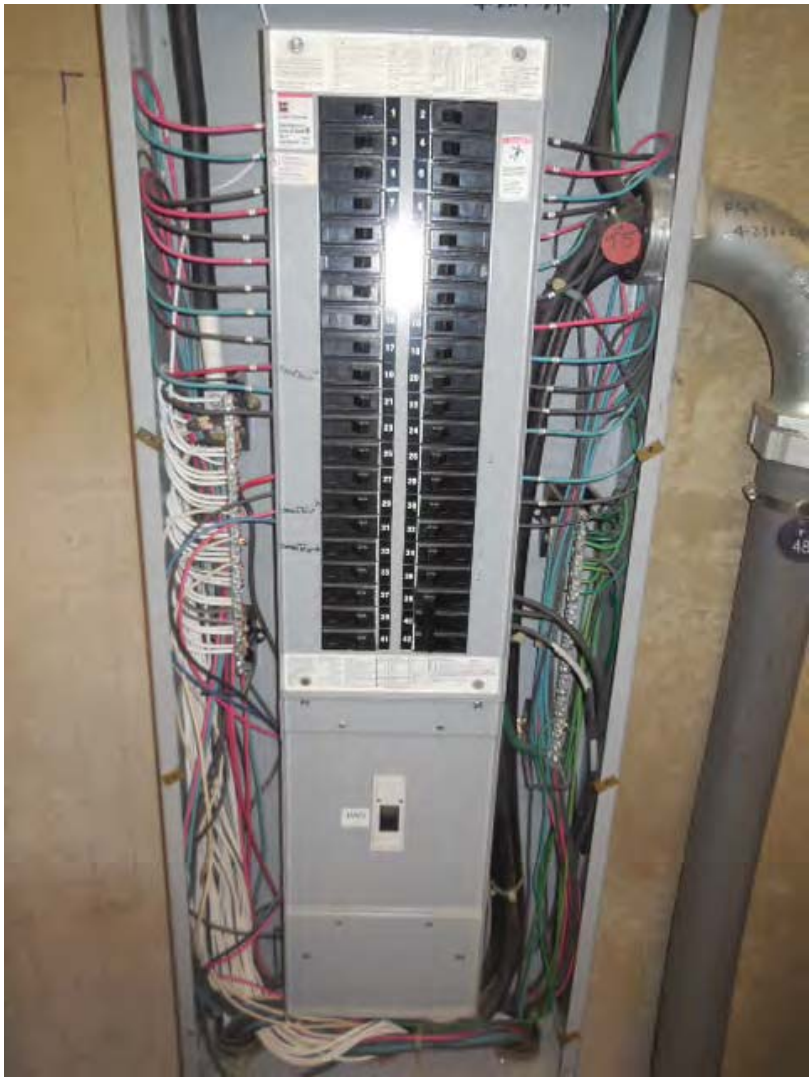
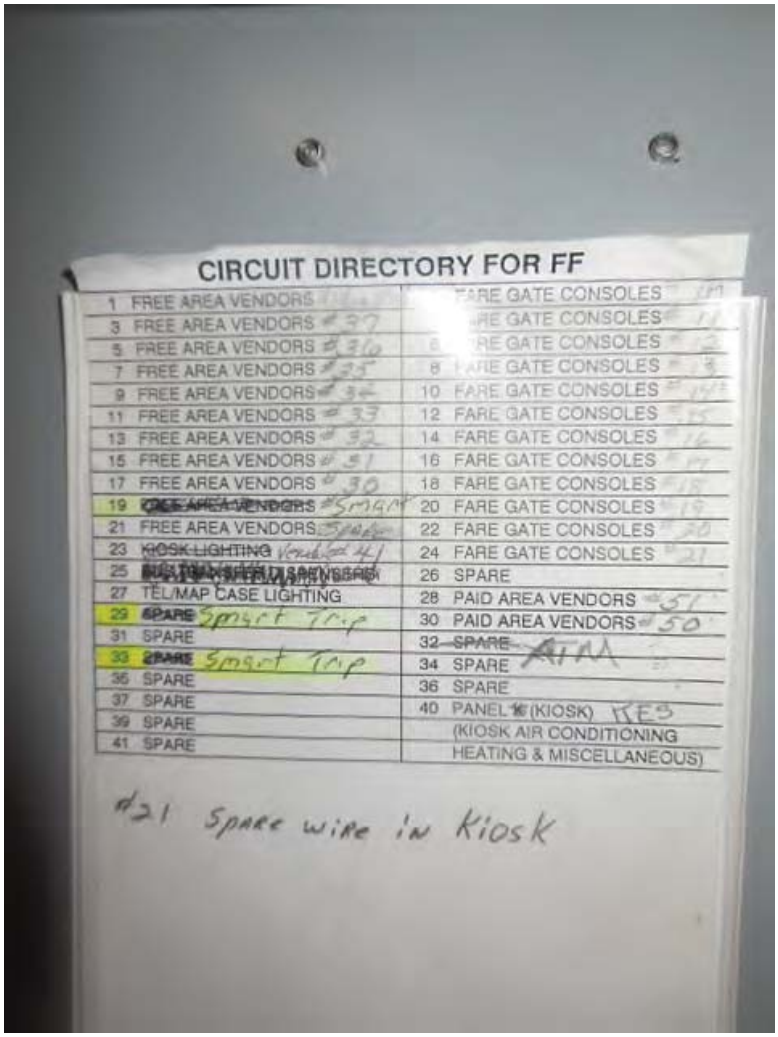


Photo #8: J03 Franconia-Springfield – Panel FF schedule



CIRCUIT DIRECTORY FOR FF

1	FREE AREA VENDORS		FARE GATE CONSOLES
3	FREE AREA VENDORS #37		RE GATE CONSOLES
5	FREE AREA VENDORS #36		RE GATE CONSOLES
7	FREE AREA VENDORS #35	8	ARE GATE CONSOLES
9	FREE AREA VENDORS #34	10	FARE GATE CONSOLES
11	FREE AREA VENDORS #33	12	FARE GATE CONSOLES
13	FREE AREA VENDORS #32	14	FARE GATE CONSOLES
15	FREE AREA VENDORS #31	16	FARE GATE CONSOLES
17	FREE AREA VENDORS #30	18	FARE GATE CONSOLES
19	~~CASE AREA VENDORS~~ #SMART	20	FARE GATE CONSOLES
21	FREE AREA VENDORS SPARE	22	FARE GATE CONSOLES
23	~~KIOSK LIGHTING~~ Vendor #41	24	FARE GATE CONSOLES
25	~~[illegible]~~	26	SPARE
27	TEL/MAP CASE LIGHTING	28	PAID AREA VENDORS #51
29	~~SPARE~~ Smart Trip	30	PAID AREA VENDORS #50
31	SPARE	32	~~SPARE~~ AHA
33	~~SPARE~~ Smart Trip	34	SPARE
35	SPARE	36	SPARE
37	SPARE	40	PANEL ~~1C~~ (KIOSK) KES
39	SPARE		(KIOSK AIR CONDITIONING
41	SPARE		HEATING & MISCELLANEOUS)

#21 Spare wire in Kiosk

Photo #9: J03 Franconia-Springfield – Switchboard #2 label in room 216

Photo #10: J03 Franconia-Springfield – AFC Panel circuit on Switchboard #2 in room 216

Photo #11: J03 Franconia-Springfield – Emergency feed for Kiosk Panel – Source Panel EE Label

Photo #12: J03 Franconia-Springfield – Emergency feed for Kiosk Panel – Circuit Switch for Panel KE

Pre-inspection Field Verification
10/9/2014

EXISTING PANEL "FF"

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE
MAINS: 200A MCB	PHASE: 3	LOCATION: AC SWBD ROOM 218
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	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
SPARE	0.0	20	1	25	A - -	26	1	20	0.0	SPARE
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	0.0	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	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	16.0 x 50%		8.0 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	33.5 KVA	TOTAL DEMAND KVA	26.3 KVA
		TOTAL DEMAND AMPS	72.9 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	10.9 KVA
PHASE B:	11.3 KVA
PHASE C:	11.3 KVA

Breaker "Panel FF (VIA T6)"
(Breaker #6) - 150/3P

NOTES: A. EXISTING PANEL "FF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWBD. "2" LOCATED IN AC SWBD ROOM 218, ~~CIRCUIT #6-150/3P~~ VIA 75 KVA TRANSFORMER (SEE ATTACHED DWG. MM-J&H-ED9).

B. EXISTING WIRING FED FROM BOTTOM PANEL BY:
- 3-2" C. (WIRING FILL >40%).

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

EXISTING WIRING FED FROM RIGHT SIDE PANEL BY:
- 1-3" C. TO TRANSFORMER (WIRING FILL >40%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NGO 09-14 DATE
DRAWN C. NGO 09-14 DATE
CHECKED S. KELB 09-14 DATE
APPROVED N/A DATE

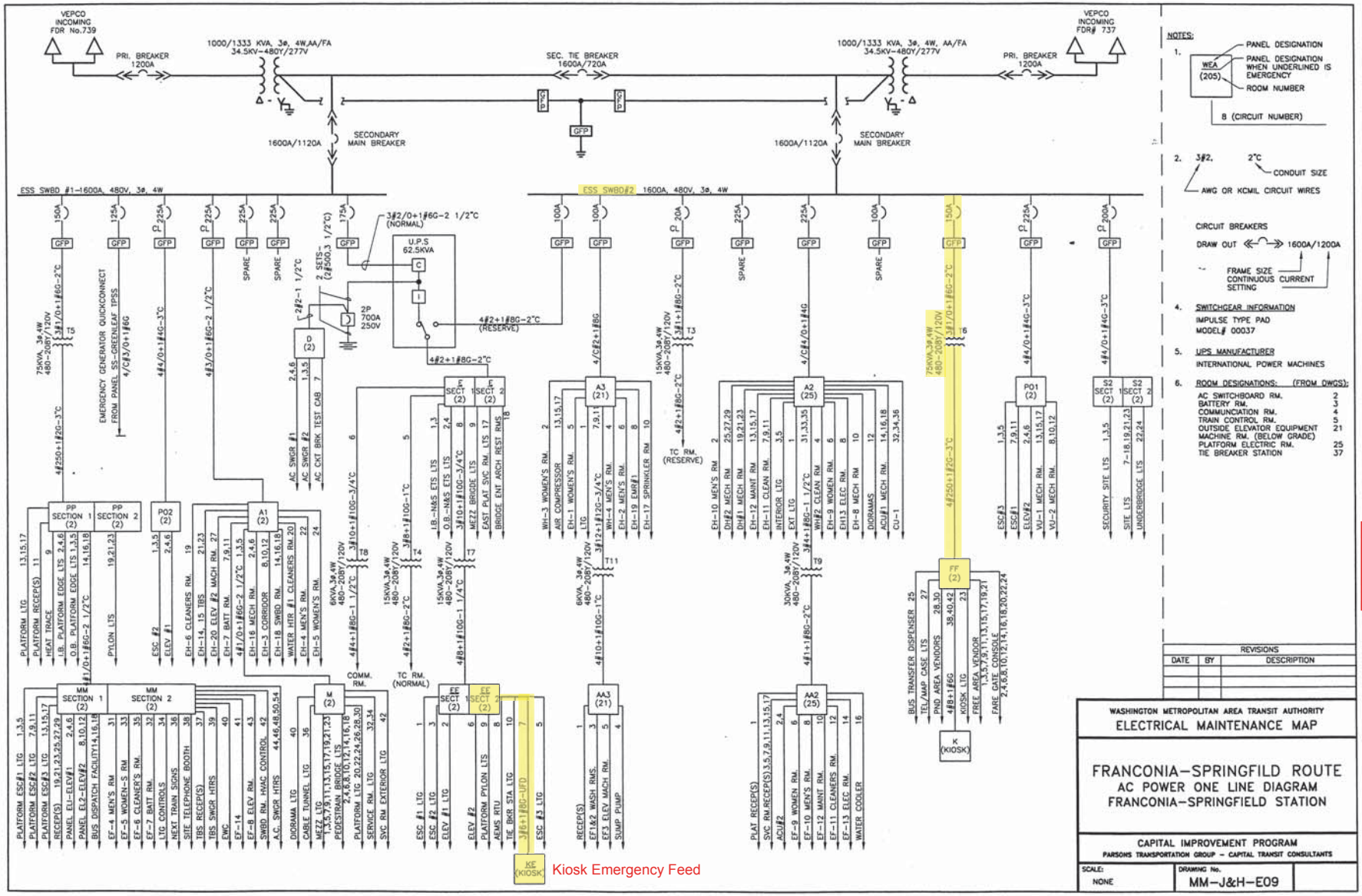
REFERENCE DRAWINGS NUMBER	DESCRIPTION	REVISIONS DATE	BY	DESCRIPTION

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
FRANCONIA - SPRINGFIELD
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO.: J03-E-102



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
   CIRCUIT BREAKERS DRAW OUT 1600A/1200A — FRAME SIZE CONTINUOUS CURRENT SETTING
4. SWITCHGEAR INFORMATION
   IMPULSE TYPE PAD
   MODEL# 00037
5. UPS MANUFACTURER
   INTERNATIONAL POWER MACHINES
6. ROOM DESIGNATIONS: (FROM DWGS):

AC SWITCHBOARD RM.	2
BATTERY RM.	4
COMMUNICATION RM.	4
TRAIN CONTROL RM.	5
OUTSIDE ELEVATOR EQUIPMENT	21
MACHINE RM. (BELOW GRADE)	
PLATFORM ELECTRIC RM.	25
TIE BREAKER STATION	37

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

FRANCONIA–SPRINGFILD ROUTE
AC POWER ONE LINE DIAGRAM
FRANCONIA–SPRINGFIELD STATION

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE: NONE

DRAWING No. MM–J&H–E09

Pre-inspection Field Verification 10/9/2014

J03 Notes:
-Power conductor run - AFC Panel FF to Kiosk: ~175'
-Handhole ~100' away from Kiosk

0:\ELECT\NewMaintMap\New\MM-J&H-E09.dwg Tue Jun 06 10:51:42 2000 LP