Pre-Inspection Mezzanine Walkthrough Checklist

Date: 12/11/2014	**Station Name:** Federal Triangle - D01	**Mezzanine #:** 053	**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: ESS MDP Source Breaker Name/Number: Breaker #3 Electrical AFC Panel Name/Number: WF	Rm 205 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: "Trans for Panel's WF and WM2" SMNT/POWR escorts: LOW Voltage	Rm C206	
☑	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:		Manholes located in between both faregate arrays.
☑	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.

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: WE2 Source Breaker Name/Number: Breaker #22,24 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	

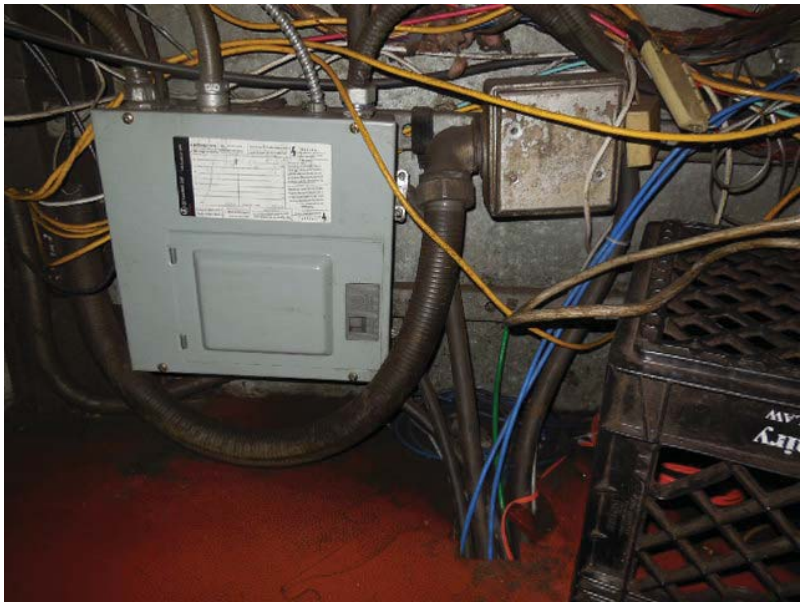
Notes and Discrepancies:

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:		
Date:	12/11/2014	

Picture 1: D01 Federal Triangle – No handholes in entrance passageway

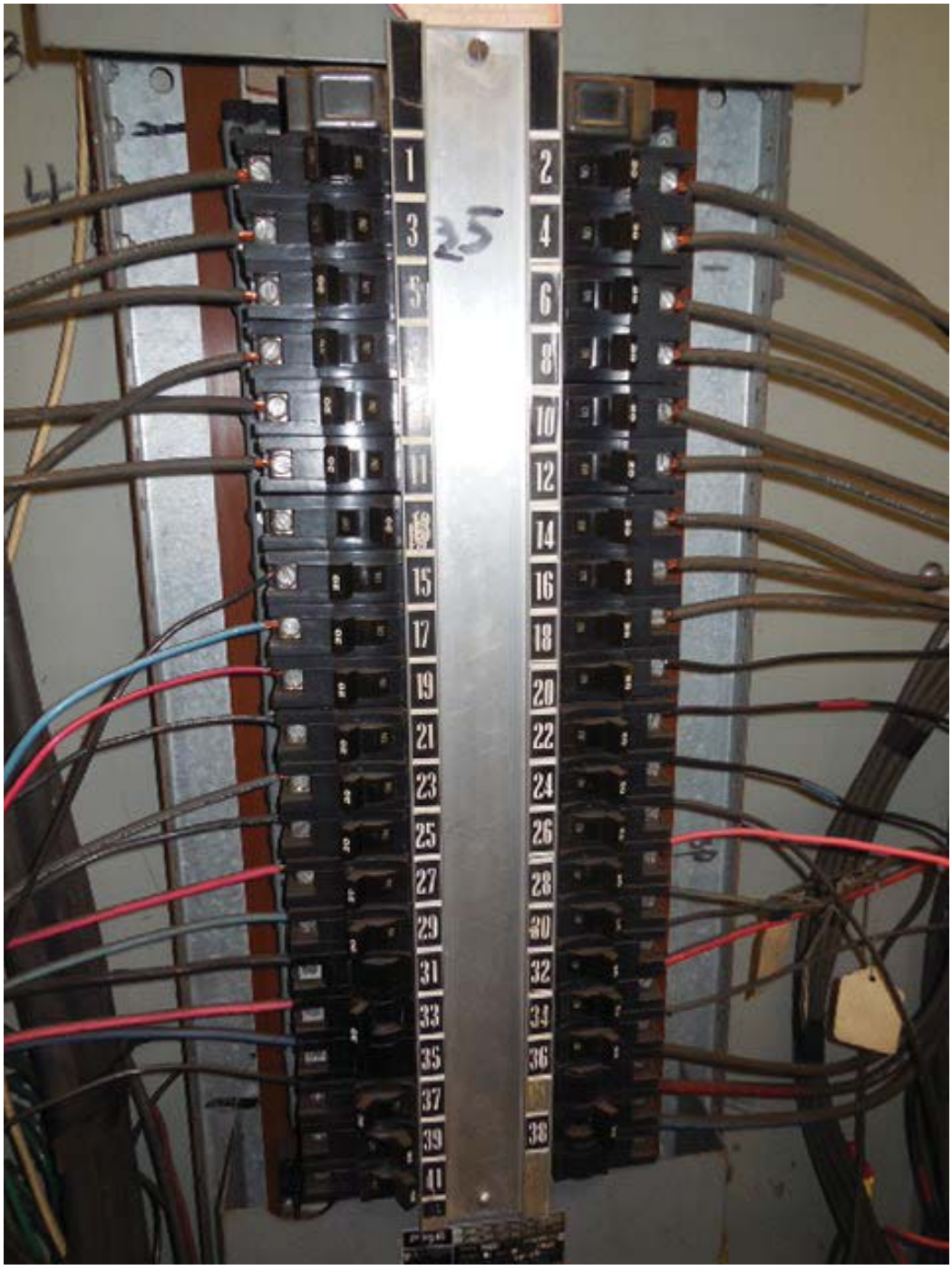
Pictures 2-4: D01 Federal Triangle – Manholes in between both faregate arrays

Pictures 5&6: D01 Federal Triangle – Emergency panel in Kiosk

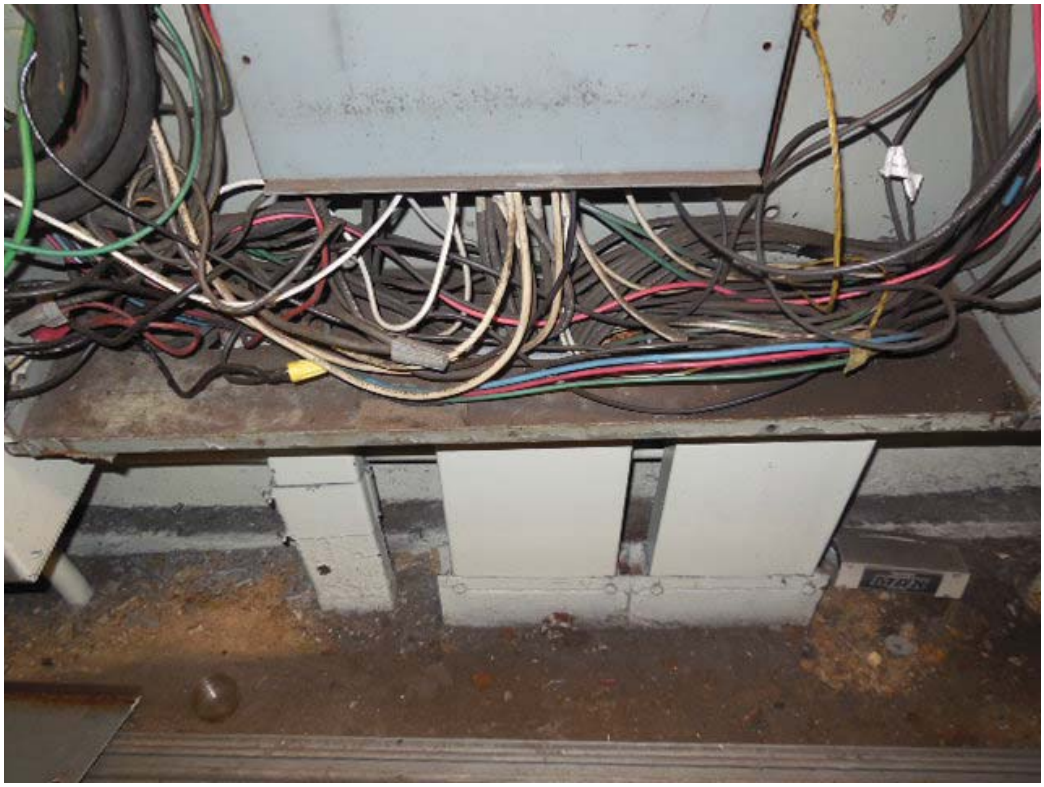


Picture 7: D01 Federal Triangle – AFC Panel WF in room C206

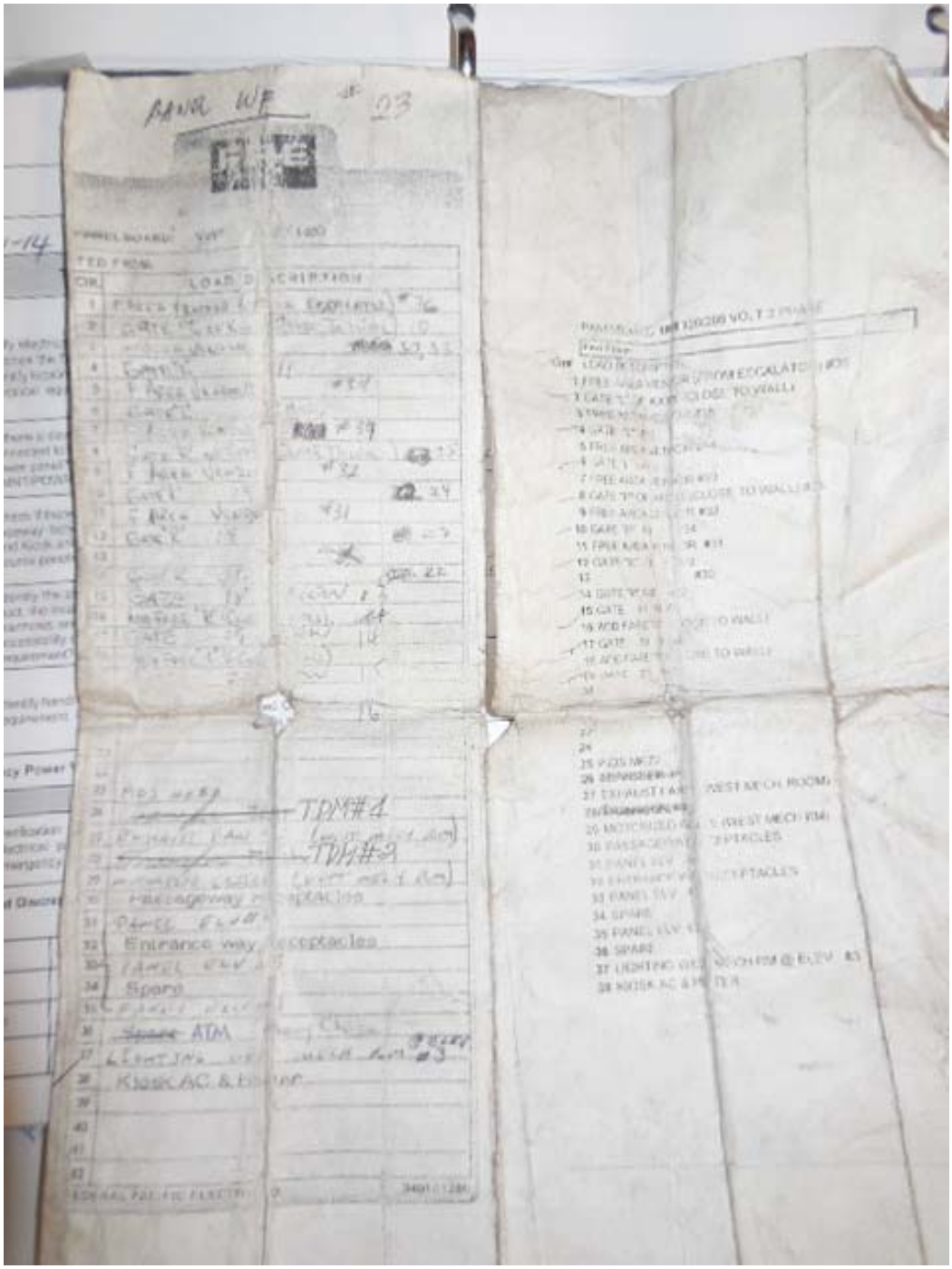
Picture 8: D01 Federal Triangle – AFC Panel WF in room C206



Picture 9: D01 Federal Triangle – AFC Panel WF in room C206 – Bottom ducts and conduit

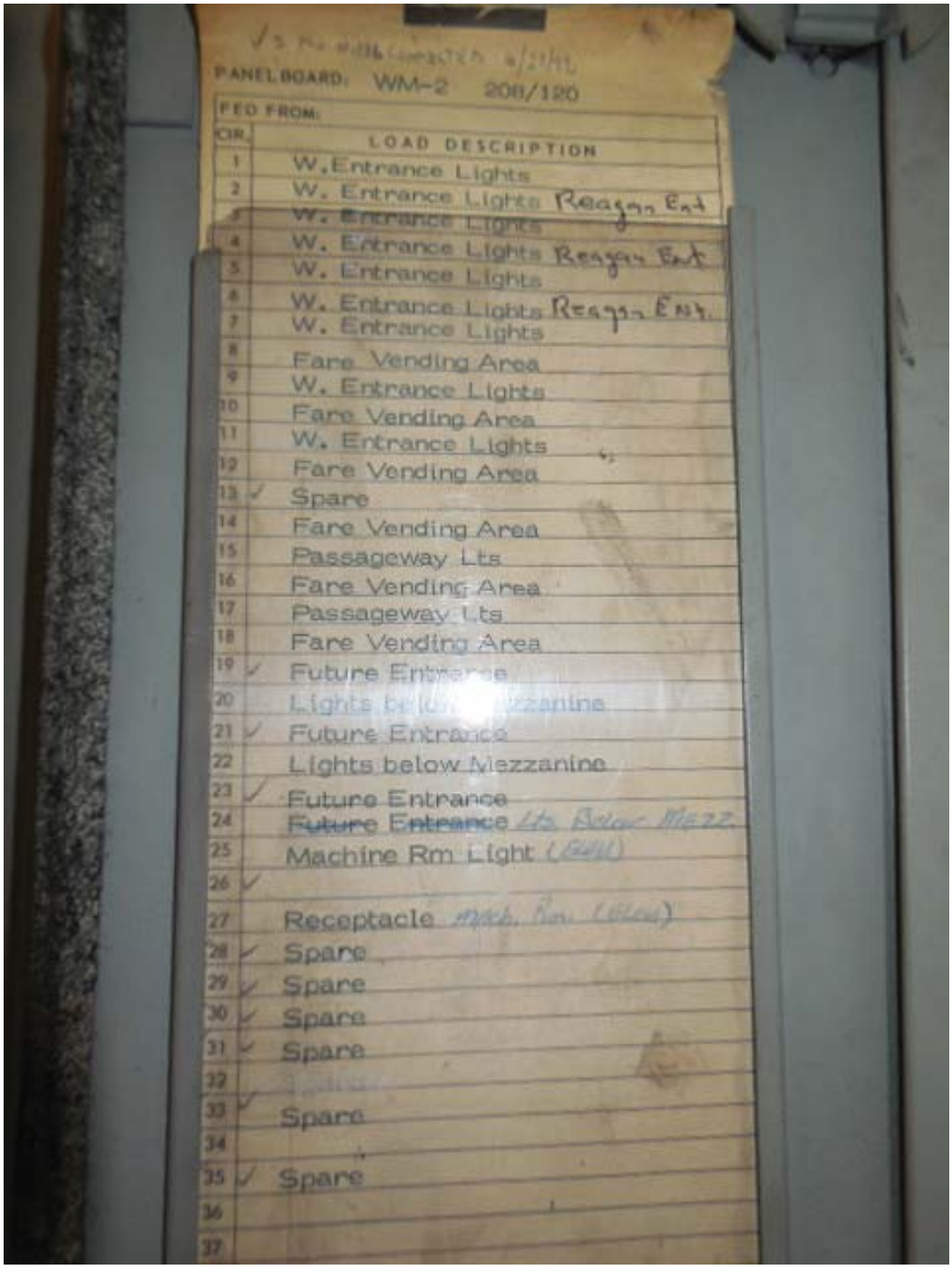


Picture 10: D01 Federal Triangle – AFC Panel WF in room C206 – Panel schedule



Picture 11: D01 Federal Triangle –Panel WM2 in room C206

Picture 12: D01 Federal Triangle – Panel WM2 in room C206 – Panel schedule

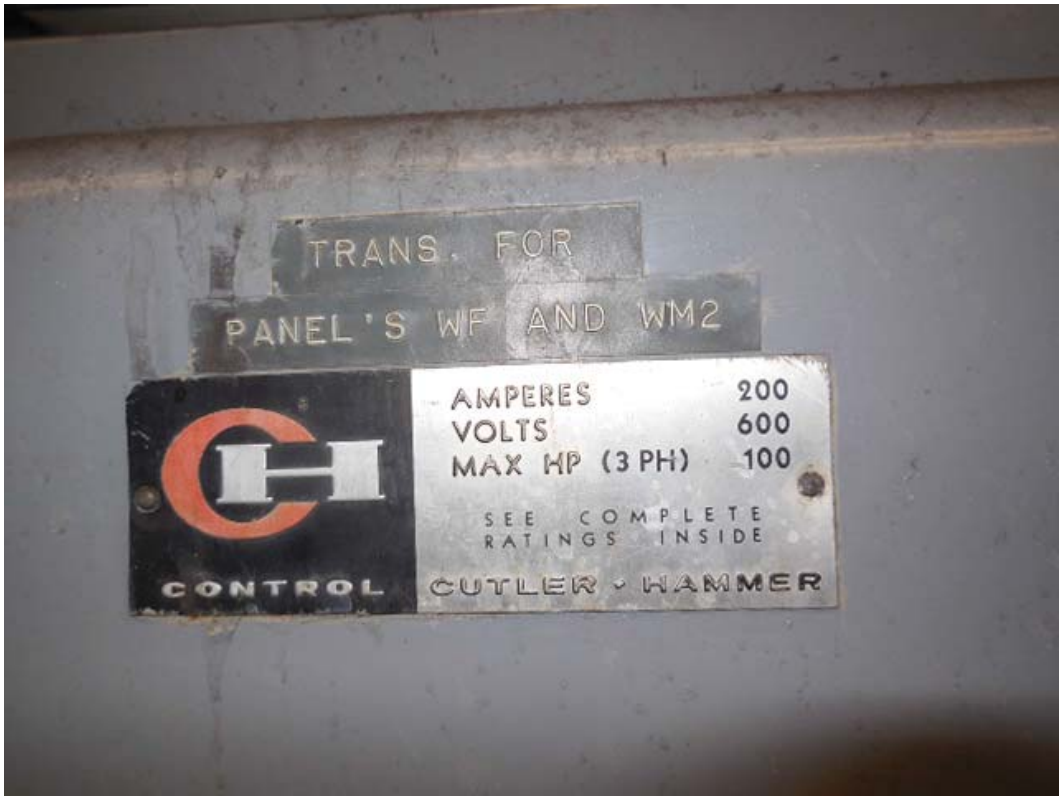


PANEL BOARD: WM-2 208/120

FED FROM:

CIR.		LOAD DESCRIPTION
1		W. Entrance Lights
2		W. Entrance Lights Reagan Ent
3		W. Entrance Lights
4		W. Entrance Lights Reagan Ent
5		W. Entrance Lights
6		W. Entrance Lights Reagan Ent.
7		W. Entrance Lights
8		Fare Vending Area
9		W. Entrance Lights
10		Fare Vending Area
11		W. Entrance Lights
12		Fare Vending Area
13	✓	Spare
14		Fare Vending Area
15		Passageway Lts
16		Fare Vending Area
17		Passageway Lts
18		Fare Vending Area
19	✓	Future Entrance
20		Lights below Mezzanine
21	✓	Future Entrance
22		Lights below Mezzanine
23	✓	Future Entrance
24		Future Entrance Lts Below Mezz.
25		Machine Rm Light
26	✓	
27		Receptacle Mach. Rm.
28	✓	Spare
29	✓	Spare
30	✓	Spare
31	✓	Spare
32		
33	✓	Spare
34		
35	✓	Spare
36		
37		

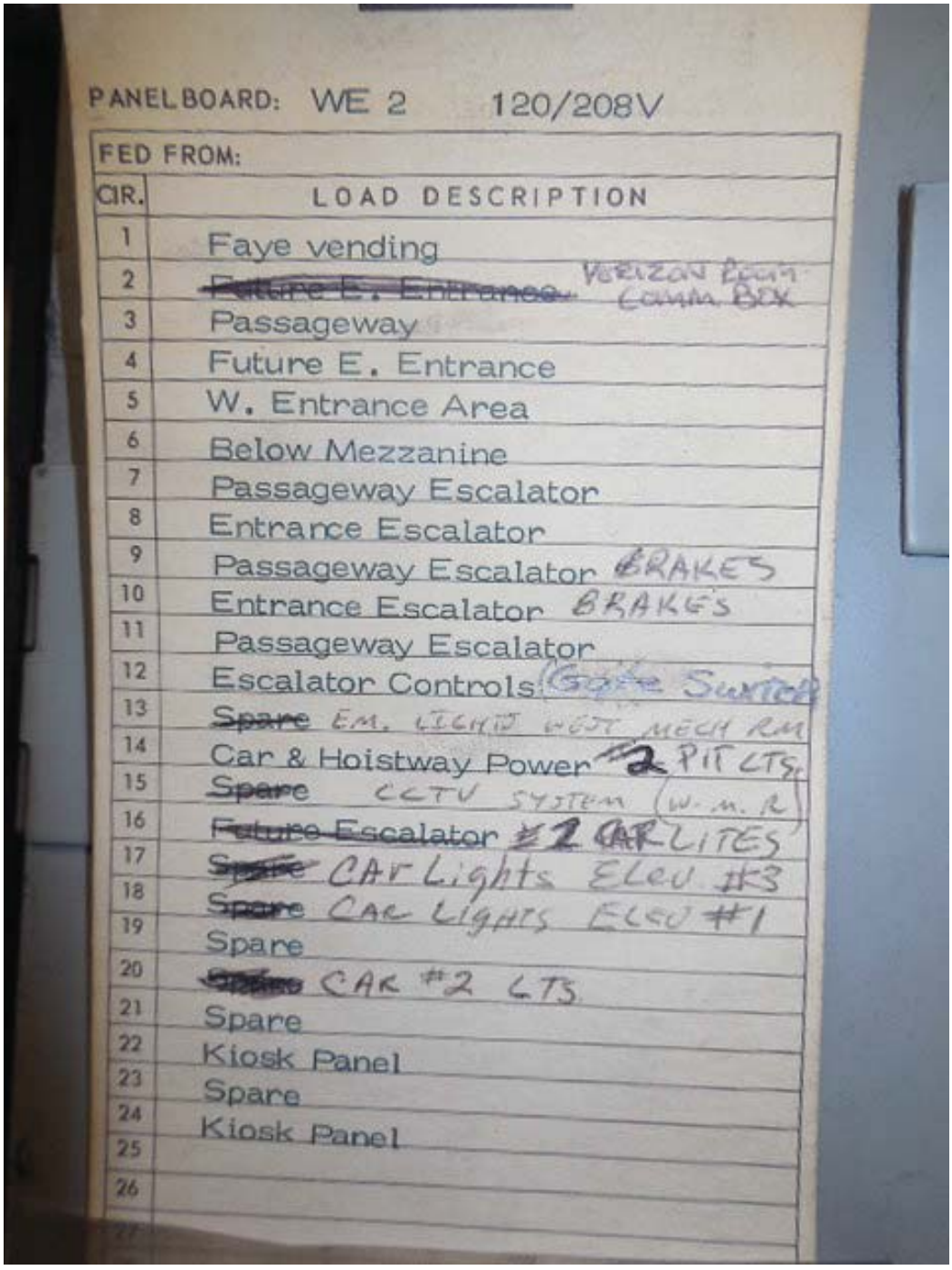
Picture 13: D01 Federal Triangle – Transformer for Panels WF and WM2 in room C206



Picture 14: D01 Federal Triangle – Panel WE2 in room C206

Picture 15: D01 Federal Triangle – Panel WE2 in room C206

Picture 16: D01 Federal Triangle – Panel WE2 in room C206 – Panel schedule



PANEL BOARD: WE 2 120/208V

FED FROM:

CIR.	LOAD DESCRIPTION
1	Faye vending
2	~~Future E. Entrance~~ VERIZON Elect Comm. BOX
3	Passageway
4	Future E. Entrance
5	W. Entrance Area
6	Below Mezzanine
7	Passageway Escalator
8	Entrance Escalator
9	Passageway Escalator BRAKES
10	Entrance Escalator BRAKES
11	Passageway Escalator
12	Escalator Controls (Safe Switch)
13	~~Spare~~ EM. LIGHTS WEST MECH RM
14	Car & Hoistway Power #2 PIT LTS
15	~~Spare~~ CCTV SYSTEM (W. M. R)
16	~~Future Escalator~~ #2 CAR LITES
17	~~Spare~~ CAR Lights ELEV #3
18	~~Spare~~ CAR Lights ELEV #1
19	Spare
20	~~Spare~~ CAR #2 LTS
21	Spare
22	Kiosk Panel
23	Spare
24	Kiosk Panel
25	
26	

NOTES:

ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN BY [illegible]

1. ALL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.
2. MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON DRAWING BY THE "X" DRAWN THRU THE MACHINE

2 AS BUILT CONDITIONS SEE SHEET 2

2 REF DWG'S SEE SUPPORT DOCUMENT PACKAGE FOR THIS MEZZANINE

REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REVISION A	7-13-77	[illegible]

Pre-Inspection Field Verification 12/11/2014

There are no faregates here

Manhole #1 Power & Comm.

Manhole #2 Power only

Refer to MIR and Scanning Reports for exist. power duct run to AFC Panel from Kiosk.

AFC Panel WF

PRIORITY REQUESTS ARE HEREBY GIVEN FOR ESCALATORS AND THE ELEVATORS THAT RUNS FROM THE STREET LEVEL TO THE MEZZANINE

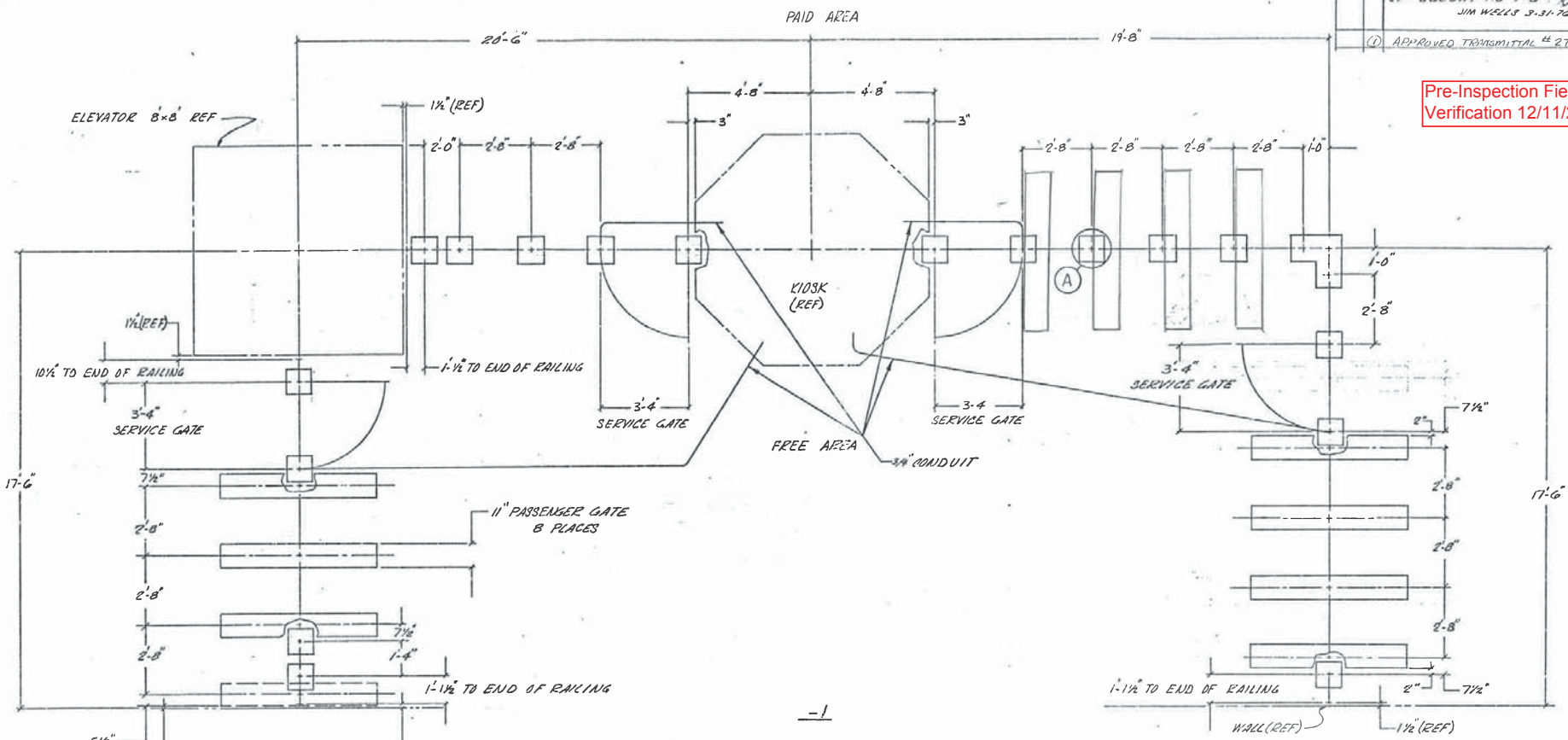
1. INSTALLATION PLAN (AS BUILT CONDITION) 53

CONTRACT NUMBER	22007A
	CUBIC WESTERN DATA — A subsidiary of Cubic Corporation — 5650 KEARNY MESA ROAD • POST OFFICE BOX 80787 • SAN DIEGO, CA 92138
REL / ENGRG / DESIGN / CHECK / DRAWN	FEDERAL TRIANGLE STATION AFC MACHINES
DESIGN ACTIVITY APPROVAL	11/18/76
APPROVED	11/18/76
SIZE	D
DRAWING NUMBER	926-0397
REV	53
SCALE	1/8"=1'0"
SHEET	OF

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS			
ZONE LTR	DESCRIPTION	DATE	APVD
1	REVISED PER WMATA 7 DWG NO CP-2200ZA-110-1-0 JIM WELLS 3-31-76		
1	APPROVED TRANSMITTAL # 27	5/11/76	

Pre-Inspection Field Verification 12/11/2014



UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON DECIMALS XX ± .03 XXX ± .010 ANGLES ± 30'	CONTRACT NUMBER 22007A	CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE		FEDERAL TRIANGLE STATION SERVICE GATE & RAILING
HOLE DIA / TOLERANCES		
.0135 THRU .125 / +.004 −.001		
.126 THRU .250 / +.005 −.001		
.258 THRU .500 / +.006 −.001	DESIGN ACTIVITY APPROVAL	SIZE D / CAGE IDENT 74737 / DRAWING NUMBER 926-0337 / REV 1
.501 THRU .750 / +.009 −.001	APPROVED	SCALE 1"-1'-0" / 926-0337 / SHEET 1 OF 1
.751 THRU 1.000 / +.010 −.001		

WD-7

926-0337 1

53

Pre-Inspection Field Verification 12/11/2014

EXISTING PANEL "WF" ✓

AMPERES: 400	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 400A MCB	PHASE: 3	LOCATION: MECHANICAL EQUIP. ROOM ~~206~~ 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
EXISTING VENDOR	0.6	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
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
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.0	EXISTING VENDOR
EXISTING VENDOR	1.4	30	3	31	A - -	32	1	20	0.0	EXISTING VENDOR
	1.0	-	-	33	- B -	34	1	20	0.8	EXISTING VENDOR
	1.0	-	-	35	- - C	36	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.0	20	1	37	A - -	38	3	30	2.9	EXIST. LOAD CENTER "KES"
✓ 1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	39	- B -	40	-	-	2.5	
✓ 1&2 SPARE (KIOSK)	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	15.6 x 50%		7.8 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	6.0 x 125%		7.5 KVA
AC	4.5 x 100%		4.5 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	**36.1 KVA**	**TOTAL DEMAND KVA**	**29.8 KVA**
		TOTAL DEMAND AMPS	**82.8 AMPS**

CONNECTED LOAD PHASE SUMMARY

PHASE A:	11.5 KVA
PHASE B:	13.1 KVA
PHASE C:	11.5 KVA

Existing SWBD "ESS MDP". LOCATED IN AC SWBD ROOM 205, BREAKER #3 - 200A/3P VIA DISCONNECT SWITCH "TRANSF FOR PANEL'S WF AND WM2" VIA 150KVA TRANSFORMER.

NOTES:
A. EXISTING PANEL "WF" IS FED FROM 120/208V, 3Ø, 4W ~~EXISTING PANEL "NMDP" LOCATE IN AC SWBD ROOM 205, CIRCUIT #4 200A/3P (SEE ATTACHED DWG. WM-D-E06).~~
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-6 1/2"x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
* 1-2"x 1 1/2" FLOOR DUCT (WIRING FILL >40%).

EXISTING WIRING FED FROM TOP OF PANEL BY:
* 5-3/4" C. (1-EMPTY, 1-WIRING FILL >20% & 3-WIRING FILL >40%).

EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 2-3" C. (1-WIRING FILL >40% & 1-EMPTY).

CONTRACT NO 14-FQ10060-CENI-24

DESIGNED C. NGO 10-14 DATE
DRAWN C. NGO 10-14 DATE
CHECKED B. IDTLEB 10-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

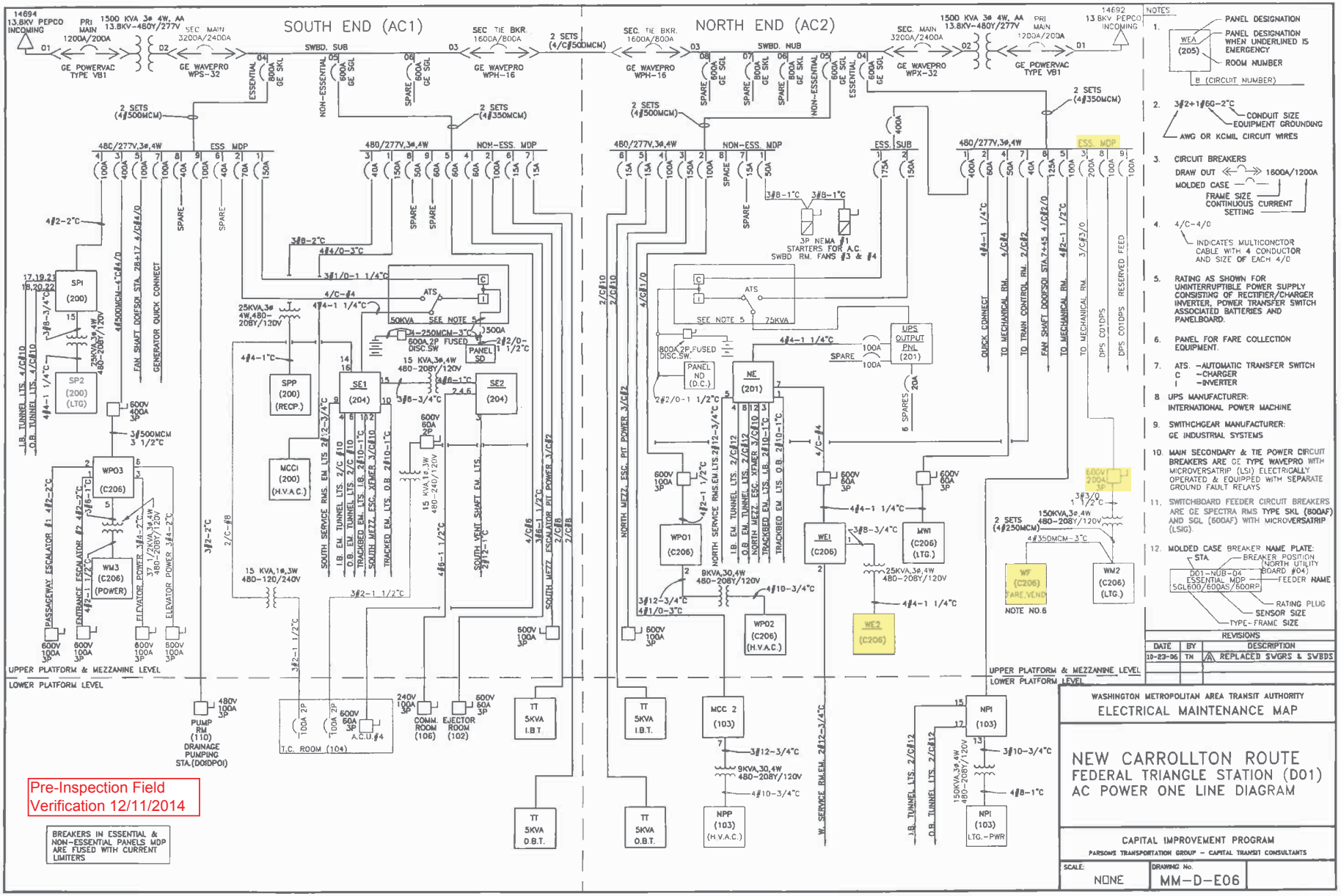
REVISIONS		
DATE	BY	DESCRIPTION

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
FEDERAL TRIANGLE
PANEL SCHEDULE

SCALE NOT TO SCALE
DRAWING NO. D01-E-102



NOTES

1. PANEL DESIGNATION
   WEA (205) B
   PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
   ROOM NUMBER
   (CIRCUIT NUMBER)
2. 3#2+1#6G-2"C
   CONDUIT SIZE
   EQUIPMENT GROUNDING
   AWG OR KCMIL CIRCUIT WIRES
3. CIRCUIT BREAKERS
   DRAW OUT
   MOLDED CASE
   FRAME SIZE
   CONTINUOUS CURRENT SETTING
   1600A/1200A
4. 4/C-4/0
   INDICATES MULTICONCTOR CABLE WITH 4 CONDUCTOR 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 PANELBOARD.
6. PANEL FOR FARE COLLECTION EQUIPMENT.
7. ATS. -AUTOMATIC TRANSFER SWITCH
   C -CHARGER
   I -INVERTER
8. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE
9. SWITCHGEAR MANUFACTURER: GE INDUSTRIAL SYSTEMS
10. MAIN SECONDARY & TIE POWER CIRCUIT BREAKERS ARE GE TYPE WAVEPRO WITH MICROVERSATRIP (LSI) ELECTRICALLY OPERATED & EQUIPPED WITH SEPARATE GROUND FAULT RELAYS
11. SWITCHBOARD FEEDER CIRCUIT BREAKERS ARE GE SPECTRA RMS TYPE SKL (800AF) AND SGL (600AF) WITH MICROVERSATRIP (LSIG).
12. MOLDED CASE BREAKER NAME PLATE:
    STA.
    BREAKER POSITION (NORTH UTILITY BOARD #04)
    D01-NUB-04
    ESSENTIAL MDP
    SGL600/600AS/60ORP
    FEEDER NAME
    RATING PLUG
    SENSOR SIZE
    TYPE-FRAME SIZE

REVISIONS

DATE	BY	DESCRIPTION
10-23-06	TN	A REPLACED SWGRS & SWBDS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE
FEDERAL TRIANGLE STATION (D01)
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE: NONE

DRAWING No. MM-D-E06

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/04/2014	**Station Name:** Smithsonian (North) - D02	**Mezzanine #:** 054	**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: NMH Source Breaker Name/Number: Breaker #4 Electrical AFC Panel Name/Number: NF	Rm 215 Rm 215 Rm 215	Source Panel NMH feeds Panel NM via breaker #1. SWBD NUB (Breaker #9) feeds Panel NMH. SWBD NGB (Breaker #1) feeds Panel NMPO.
☑	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. YES (see notes)		Panels NM, NM-E, NMH-E, NMH, NMPO, and NMM share a raceway (trough).
☑	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 duct run is approx. 120' from Kiosk to AFC Panel.

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 KE Source Breaker Name/Number: Breaker "AFC EM" Panel Name/Number: Emergency Power Faregates	Kiosk Kiosk	Also, need to LOTO for emergency power: Kiosk Panel - Main Breaker;

Notes and Discrepancies:

Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:		
Date:	11/04/2014	

Picture 1: D02 Smithsonian North – Handholes on Mezzanine

Picture 2: D02 Smithsonian North – Handholes on Mezzanine

Picture 3: D02 Smithsonian North – Manholes in Service corridor

Picture 4: D02 Smithsonian North – Emergency Panel KE in Kiosk

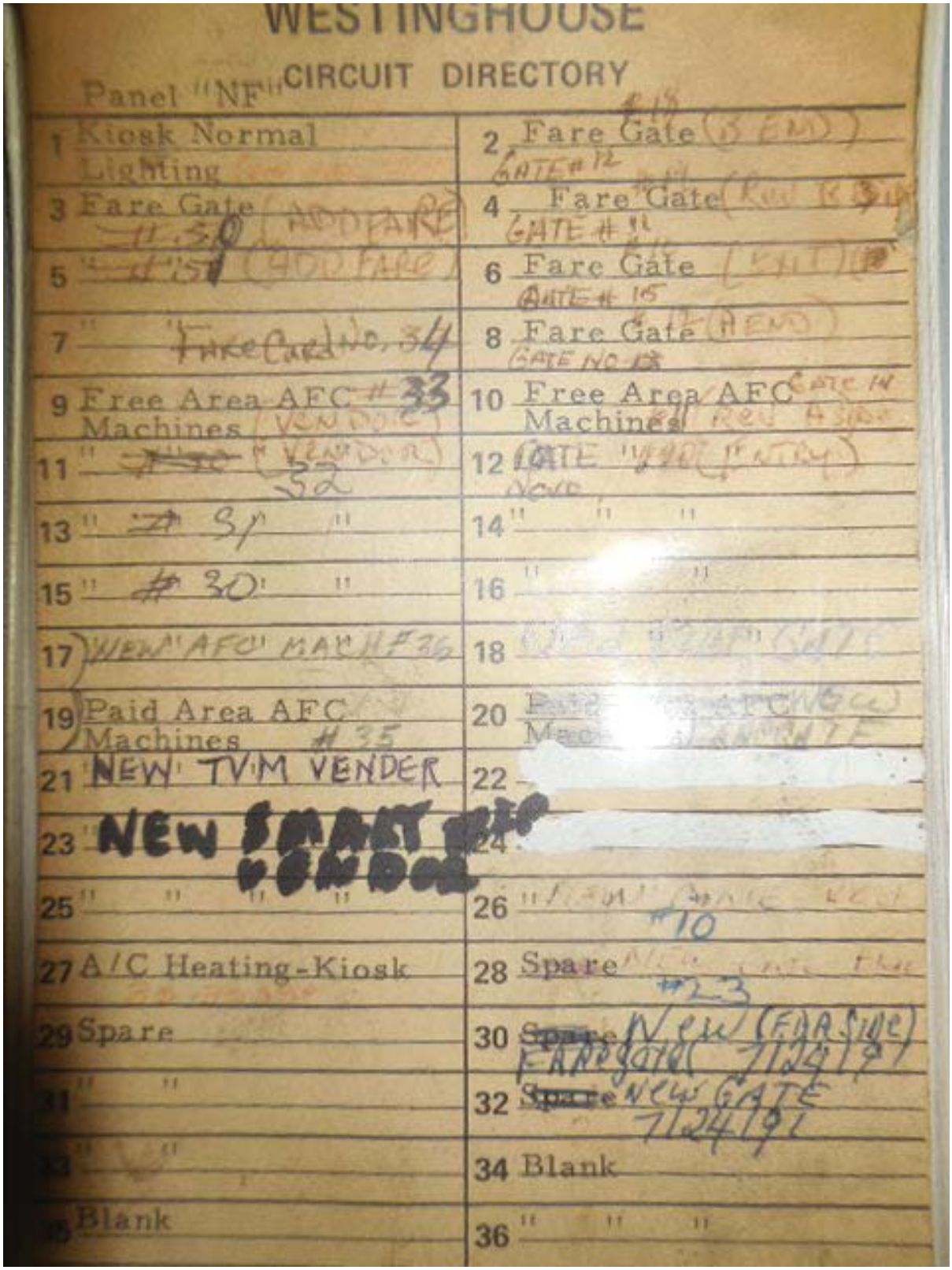
Picture 5: D02 Smithsonian North – Emergency Panel KE in Kiosk

Picture 6: D02 Smithsonian North – Unknown Emergency Panel in Kiosk

Picture 7: D02 Smithsonian North – AFC Panel NF in Room 215

Picture 8: D02 Smithsonian North – AFC Panel NF in Room 215

Picture 9: D02 Smithsonian North – AFC Panel NF in Room 215 – Panel schedule

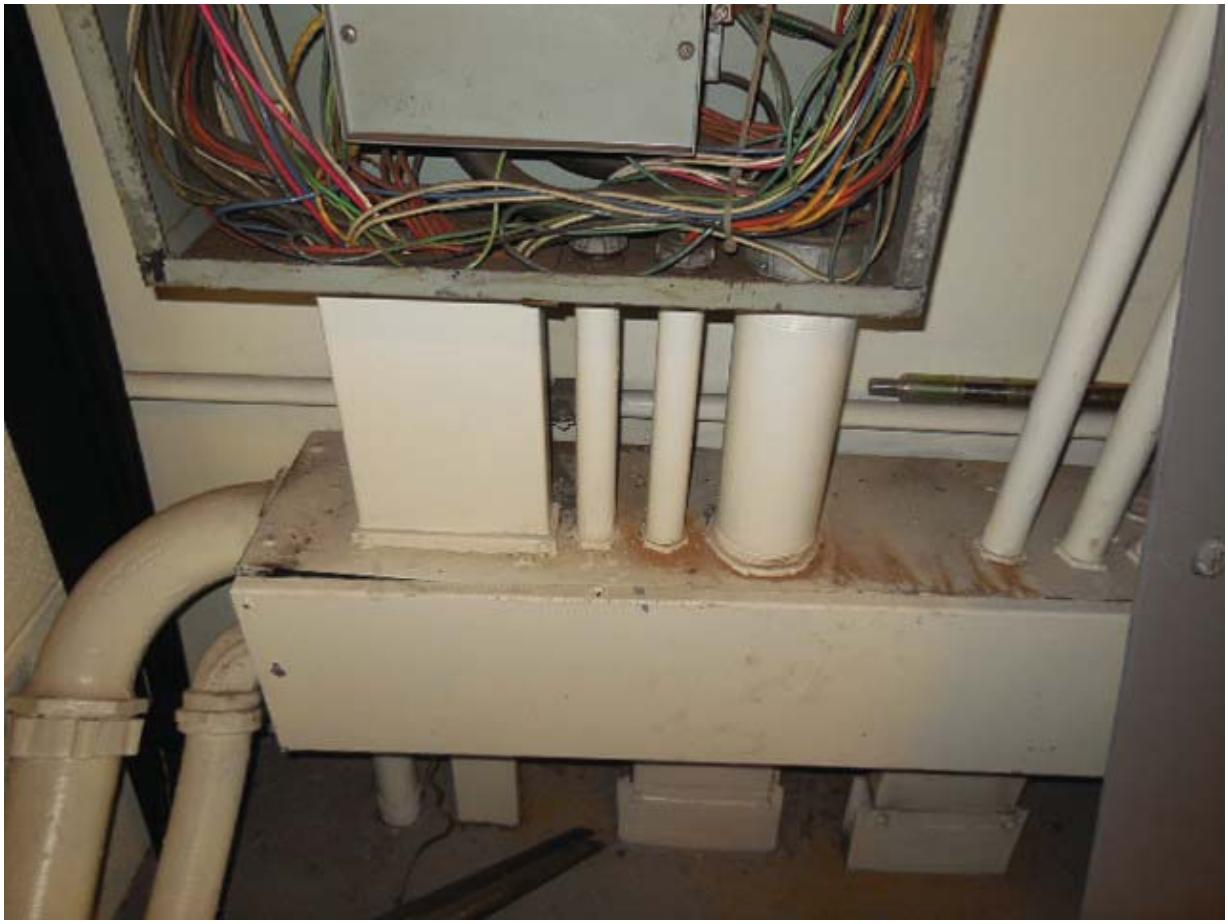


WESTINGHOUSE

Panel "NF" CIRCUIT DIRECTORY

1 Kiosk Normal Lighting	2 Fare Gate (S END) GATE #12
3 Fare Gate	4 Fare Gate GATE #11
5	6 Fare Gate GATE #15
7 Fare Card No. 34	8 Fare Gate GATE NO 13
9 Free Area AFC Machines	10 Free Area AFC Machines
11	12
13	14
15 #30	16
17 NEW AFC MACH #36	18
19 Paid Area AFC Machines #35	20
21 NEW TVM VENDER	22
23 NEW SMART	24
25	26 #10
27 A/C Heating-Kiosk	28 Spare #23
29 Spare	30 Spare NEW (FARE GATE 7/24/91
31	32 Spare NEW GATE 7/24/91
33	34 Blank
35 Blank	36

Picture 10: D02 Smithsonian North – AFC Panel NF in Room 215 – Bottom duct & conduits



Picture 11: D02 Smithsonian North – Common trough for Panels NM, NM-E, NMH-E, NMH, & NMPO in Room 215

Picture 12: D02 Smithsonian North – Common trough for Panels NM, NM-E, NMH-E, NMH, & NMPO in Room 215

NOTES:

ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY BECHTEL.

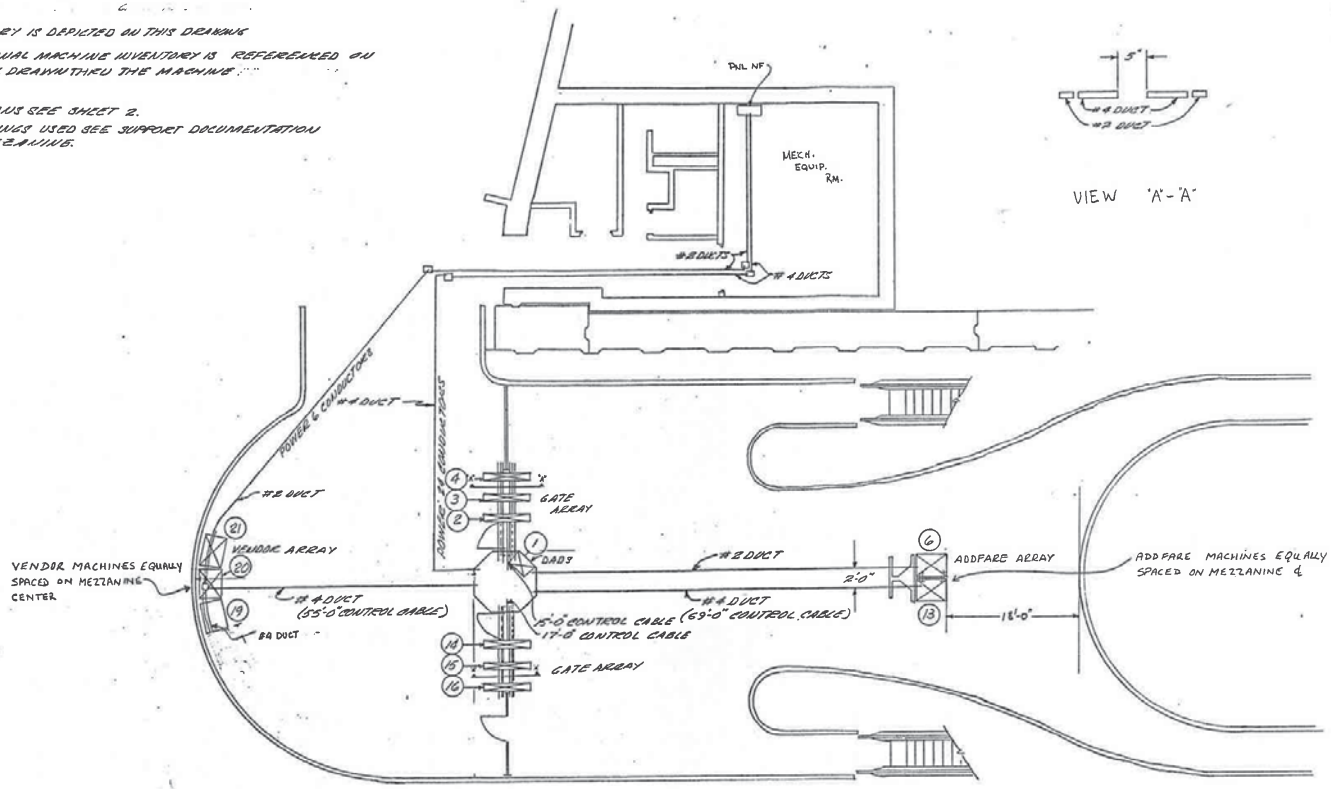
TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING

THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE X DRAWN THRU THE MACHINE.

FOR AS BUILT CONDITIONS SEE SHEET 2.
FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REFRENCE A	7-13-77	

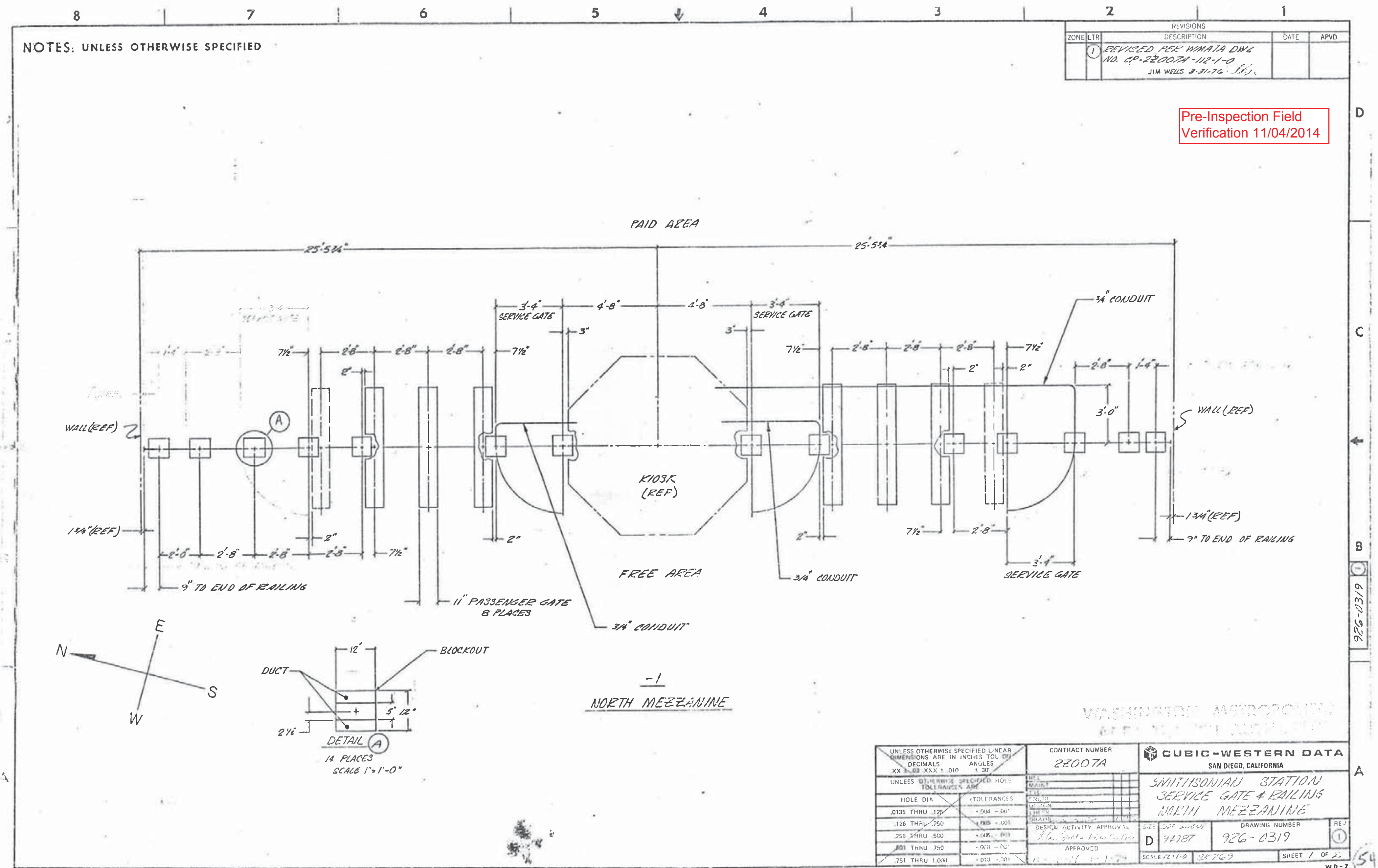
Pre-Inspection Field Verification 11/04/2014



VIEW 'A'-'A'

-1 INSTALLATION PLAN
(AS BUILT CONDITION)

CONTRACT NUMBER	CUBIC WESTERN DATA
27007A	A subsidiary of Cubic Corporation 5650 KEARNY MESA ROAD • POST OFFICE BOX 80787 • SAN DIEGO CA 92138
REL ENGRG DESIGN CHECK DRAWN	SMITHSONIAN STATION NORTH MEZZANINE AFC MACHINES
DESIGN ACTIVITY APPROVAL Walter D. Powell 8-5-76 APPROVED 11/12/76	SIZE D DRAWING NUMBER 926-0384 (5) REV 1 SCALE 1/8"-1'-0" SHEET 1 OF 2



NOTES: UNLESS OTHERWISE SPECIFIED
REVISIONS
ZONE | LTR | DESCRIPTION | DATE | APVD
1 REVISED PER WMATA DWG NO. CP-2Z007A-112-1-0 JIM WELLS 3-31-76
Pre-Inspection Field Verification 11/04/2014
PAID AREA
25'-5 3/4"
25'-5 3/4"
3'-4" SERVICE GATE
4'-8"
4'-8"
3'-4" SERVICE GATE
3/4" CONDUIT
3"
3"
7 1/2"
2'-8"
2'-8"
2'-8"
7 1/2"
7 1/2"
2'-8"
2'-8"
2'-8"
7 1/2"
2"
2"
2"
2'-8"
1'-4"
3'-0"
WALL (REF)
WALL (REF)
A
K103K (REF)
1 3/4" (REF)
1 3/4" (REF)
2"
2"
2"
7 1/2"
2'-8"
9" TO END OF RAILING
2'-0"
2'-8"
2'-8"
2'-8"
7 1/2"
FREE AREA
3/4" CONDUIT
3'-4" SERVICE GATE
9" TO END OF RAILING
11" PASSENGER GATE 8 PLACES
3/4" CONDUIT
N
E
S
W
12"
BLOCKOUT
DUCT
5"
12"
2 1/2"
DETAIL A
14 PLACES
SCALE 1" = 1'-0"
-1
NORTH MEZZANINE
UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON
DECIMALS .XX ± .03 XXX ± .010
ANGLES ± 30'
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE
HOLE DIA | TOLERANCES
.0135 THRU .125 | +.004 -.001
.126 THRU .250 | +.005 -.001
.256 THRU .500 | +.006 -.001
.501 THRU .750 | +.008 -.001
.751 THRU 1.000 | +.010 -.001
CONTRACT NUMBER
2Z007A
REL
MAINT
ENGR
DESIGN
CHECK
DRAWN
DESIGN ACTIVITY APPROVAL
APPROVED
CUBIC-WESTERN DATA
SAN DIEGO, CALIFORNIA
SMITHSONIAN STATION
SERVICE GATE & RAILING
NORTH MEZZANINE
SIZE D
94987
DRAWING NUMBER
926-0319
REV 1
SCALE 1/2"=1'-0
3K769
SHEET 1 OF 2
WD-7
926-0319

EXISTING PANEL "SF"

AMPERES: **400**	VOLTS: **120/208**	MOUNTING: **SURFACE**	
MAINS: **400A MLO**	PHASE: **3**	LOCATION: **MECHANICAL EQUIP. ROOM 214**	
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	0.0	SPARE
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	0.0	SPARE
SPACE	0.0	-	-	19	A - -	20	3	20	2.9	EXIST. LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	21	- B -	22	-	-	2.5	
SPACE	0.0	-	-	23	- - C	24	-	-	2.5	
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.0	SPARE
1 **NEW KIOSK RECEPT. (IT & NEPP)**	**0.8**	20	1	27	- B -	28	1	20	0.0	SPARE
1&2 **SPARE (KIOSK)**	**0.0**	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
SPARE	0.0	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
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	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 "SF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD "AC02-SOUTH" LOCATE IN AC SWBD RM 104, CIRCUIT #3-100A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 5-1 1/2" C. (3-WIRING FILL >40%) & (2-WIRING FILL >20%).

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

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

EXISTING PANEL "NF"

AMPERES: **400**	VOLTS: **120/208**	MOUNTING: **SURFACE**	
MAINS: **400A MLO**	PHASE: **3**	LOCATION: **MECHANICAL EQUIP. ~~ROOM 205~~** Room 215	
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
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**	**NEW KIOSK RECEPT. (IT & NEPP)** 1
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	**0.0**	**SPARE (KIOSK)** 1&2
SPARE	0.0	20	1	25	A - -	26	1	20	0.8	EXISTING VENDOR
EXIST. LOAD CENTER "KES"	2.9	40	3	27	- B -	28	1	20	0.8	EXISTING VENDOR
	2.5	-	-	29	- - C	30	-	-	0.0	SPACE
	2.5	-	-	31	A - -	32	-	-	0.0	SPACE
SPACE	0.0	-	-	33	- B -	34	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	35	- - C	36	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	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	12.0 x 50%		6.0 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	**29.5 KVA**	**TOTAL DEMAND KVA**	**24.3 KVA**
		TOTAL DEMAND AMPS	**67.4 AMPS**
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.7 KVA		
PHASE B:	10.9 KVA		
PHASE C:	8.9 KVA		

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "NMH" LOCATE IN MECH. EQUIP. ROOM ~~205;~~ 215

Breaker → ~~CIRCUIT~~ #4-125A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).

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

Pre-Inspection Field Verification 11/04/2014

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NGO 10-14 DATE
DRAWN C. NGO 10-14 DATE
CHECKED B. IDILBI 10-14 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 _____

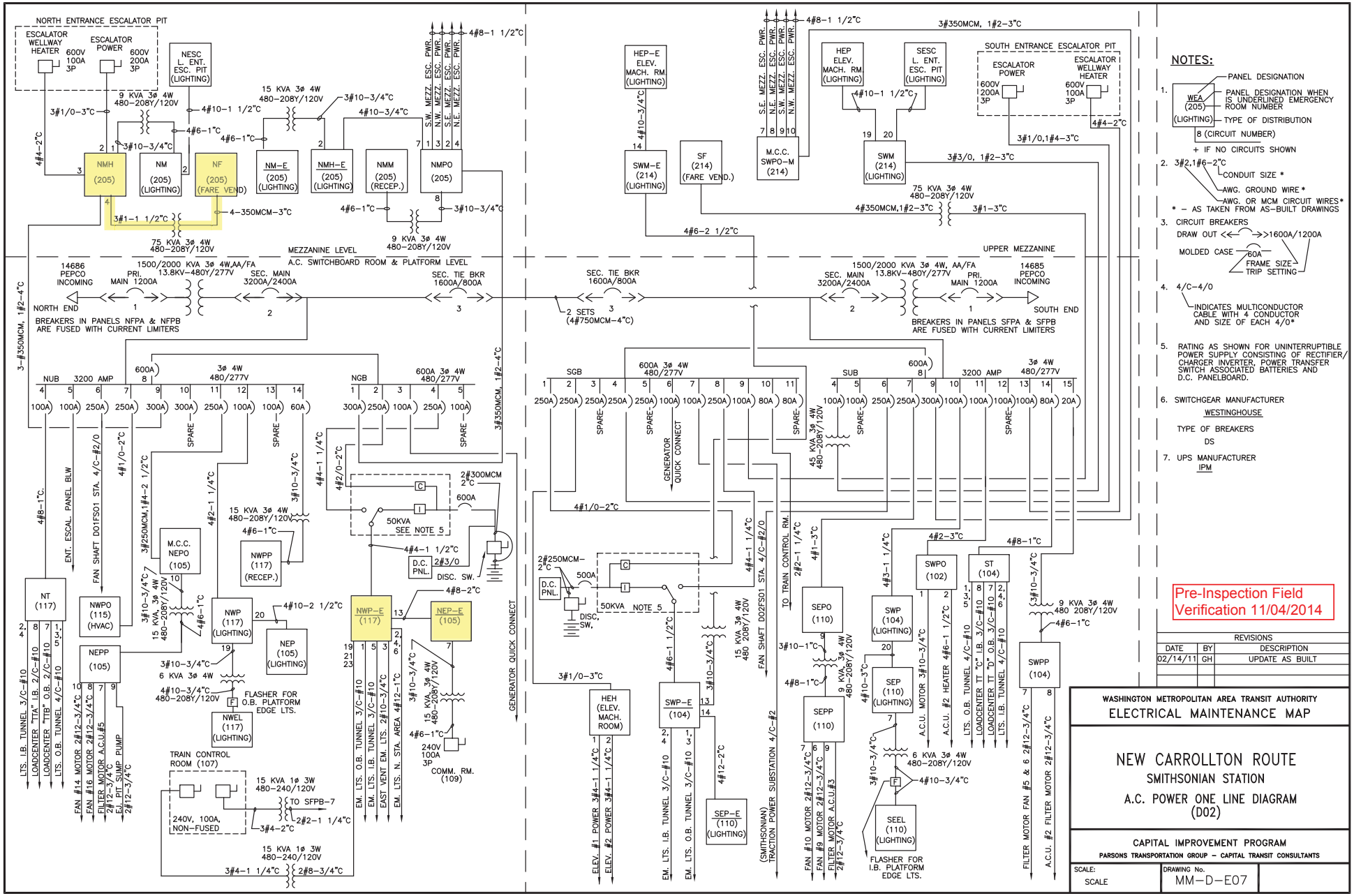
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE

DRAWING NO.: D02-E-102



NOTES:

1. PANEL DESIGNATION
   WEA (205) (LIGHTING) 8
   - PANEL DESIGNATION WHEN IS UNDERLINED EMERGENCY ROOM NUMBER
   - TYPE OF DISTRIBUTION
   - (CIRCUIT NUMBER)
   + IF NO CIRCUITS SHOWN
2. 3#2,1#6–2"C
   - CONDUIT SIZE *
   - AWG. GROUND WIRE *
   - AWG. OR MCM CIRCUIT WIRES *

   * – AS TAKEN FROM AS–BUILT DRAWINGS
3. CIRCUIT BREAKERS
   DRAW OUT <<>> 1600A/1200A
   MOLDED CASE 60A
   - FRAME SIZE
   - TRIP SETTING
4. 4/C–4/0
   - INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR 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
   WESTINGHOUSE
   TYPE OF BREAKERS
   DS
7. UPS MANUFACTURER
   IPM

Pre-Inspection Field Verification 11/04/2014

REVISIONS		
DATE	BY	DESCRIPTION
02/14/11	GH	UPDATE AS BUILT

DESIGNED G HOLMES 01/12/2011 DATE
DRAWN G HOLMES 02/08/2011 DATE
CHECKED B GHORBAN 02/17/2011 DATE
APPROVED A ROBINSON 02/18/2011 DATE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE

SMITHSONIAN STATION

A.C. POWER ONE LINE DIAGRAM (D02)

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE: SCALE

DRAWING No. MM–D–E07

CADFILE

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/04/2014	**Station Name:** Smithsonian (South) - D02	**Mezzanine #:** 055	**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: SWBD SGB Source Breaker Name/Number: D02-SGB-09 Electrical AFC Panel Name/Number: SF	Rm 104 Rm 104 Rm 104	AC SWBD Rm 104 is Track 1 wayside.
☑	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. YES (see notes)		Panel SF share trough with Panel SWM-E and SWM.
☑	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:		D02-SUB-04 Breaker on SWBD SUB will de-energize Panel SWM. Breaker #13 on Panel SWP-E will de-energize Panel SWM-E.
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? NO Identified Conduit/Duct Transition to mezzanine level? YES		Overhead conduits from AFC Panel to Mezzanine floor to Kiosk. Power Run from Kiosk to AFC Panel is approx. 150' via one handhole and trough.

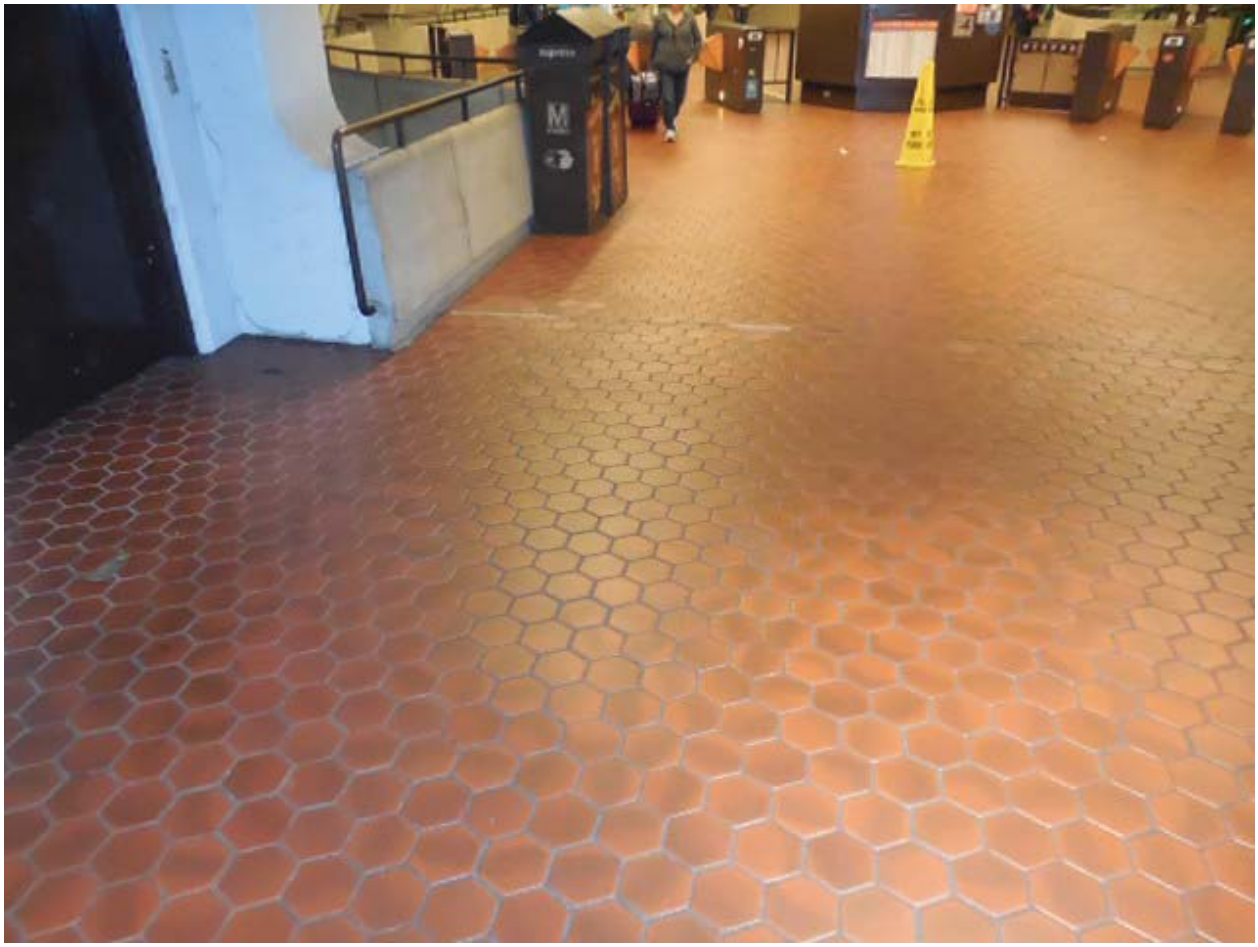
Emergency Power Verification

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: SWM-E Source Breaker Name/Number: Breaker #13, 15 Panel Name/Number: Kiosk Emergency Panel	Rm 104 Rm 104 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:	Tanmaya Sahoo	
Date:	11/04/2014	

Picture 1: D02 Smithsonian South – No handholes on Mezzanine



Picture 2: D02 Smithsonian South – Emergency Panel KE in Kiosk

Picture 3: D02 Smithsonian South – Emergency Panel KE in Kiosk

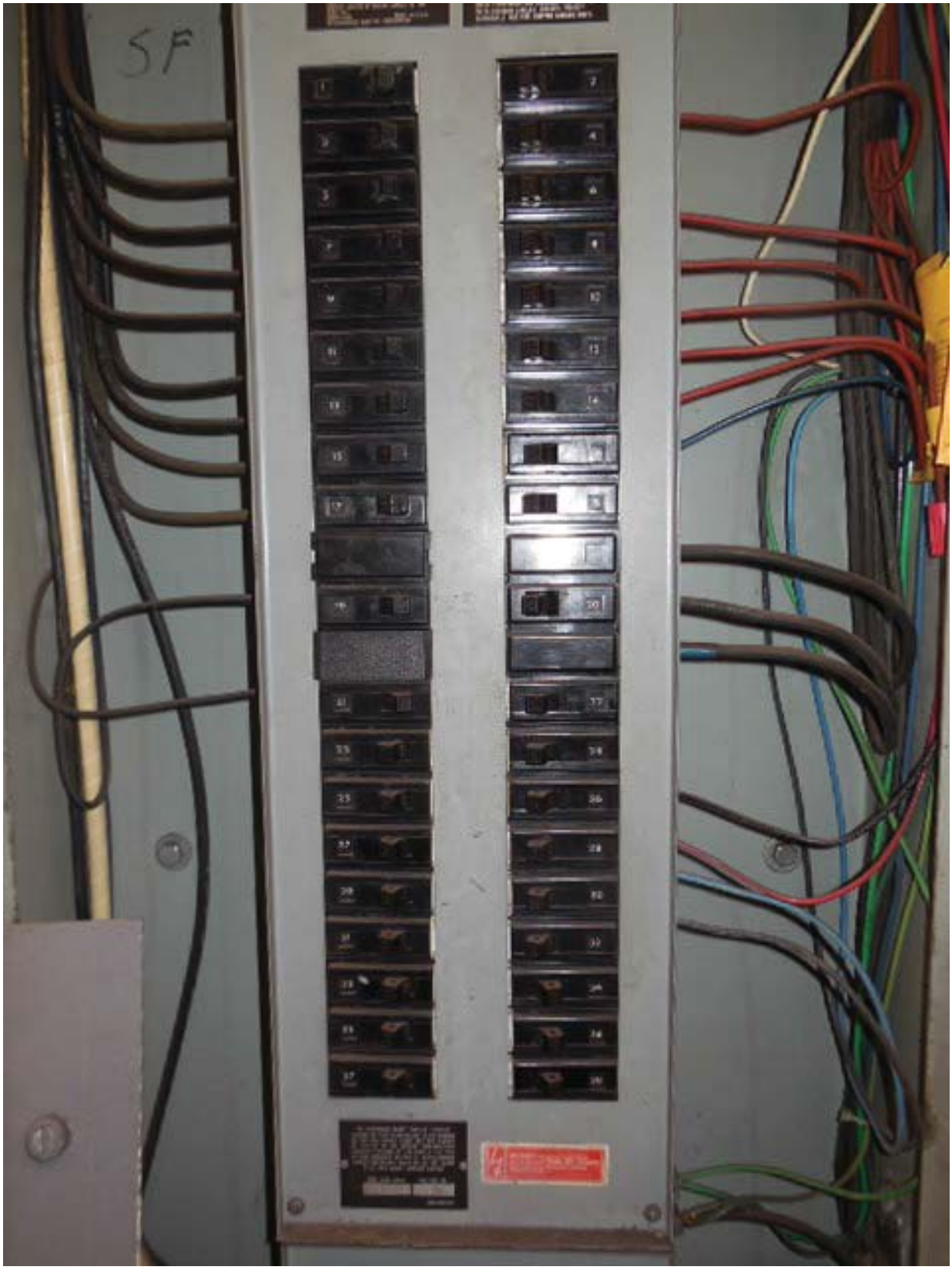
Picture 4: D02 Smithsonian South – Emergency Panel KE in Kiosk

Picture 5: D02 Smithsonian South – Emergency Panel KN in Kiosk

Picture 6: D02 Smithsonian South – AFC Panel SF in Room 104

Picture 7: D02 Smithsonian South – AFC Panel SF in Room 104

Picture 8: D02 Smithsonian South – AFC Panel SF in Room 104



Picture 9: D02 Smithsonian South – AFC Panel SF in Room 104 – Conduits above panel

Picture 10: D02 Smithsonian South – Breaker D02-SGB-09 for Panel SF in Room 104

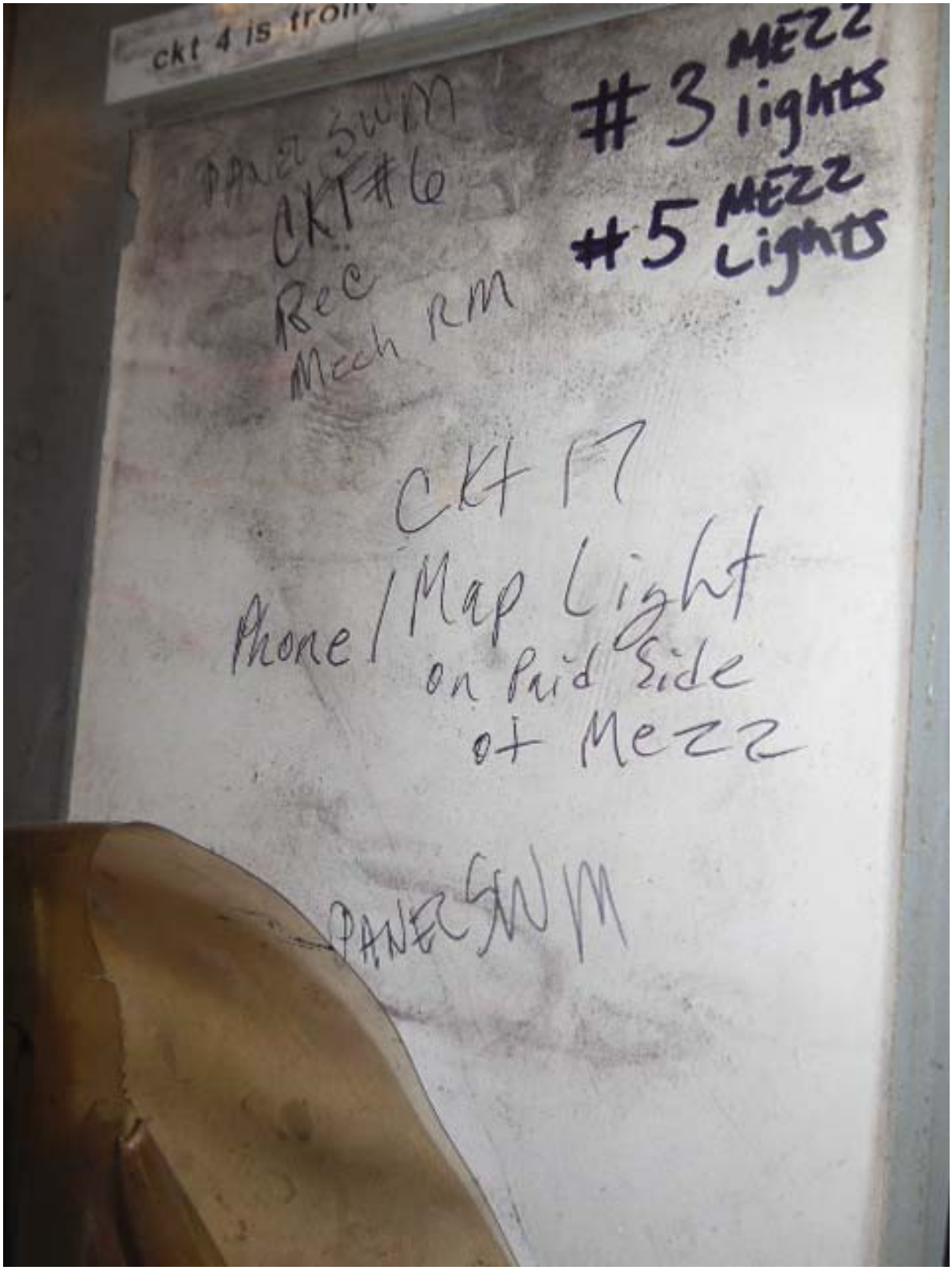
Picture 11: D02 Smithsonian South – Breaker D02-SUB-04 for Panel SWM in Room 104

Picture 12: D02 Smithsonian South – Panel SWM-E in Room 104

Picture 13: D02 Smithsonian South – Panel SWM-E in Room 104

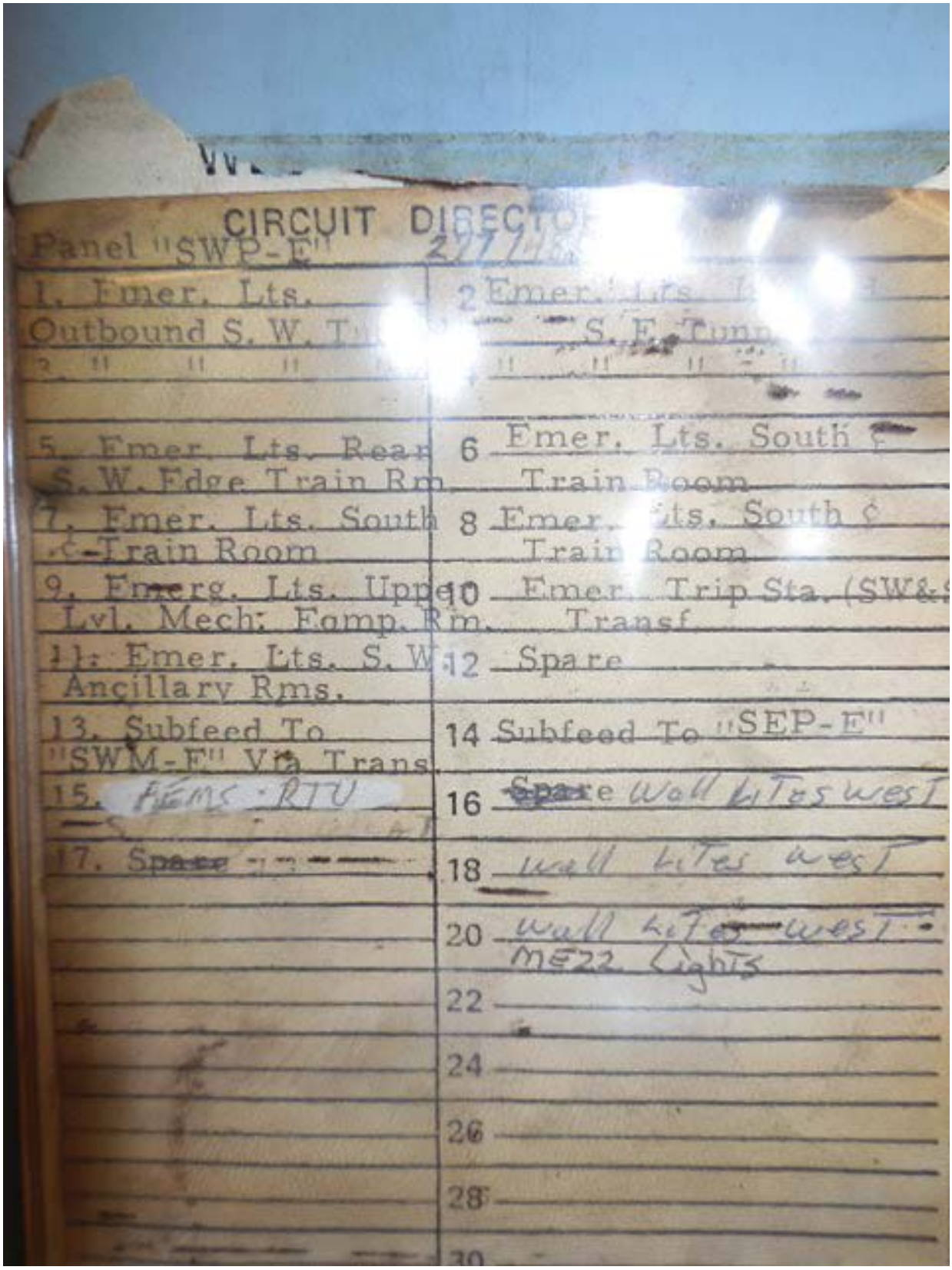
Picture 14: D02 Smithsonian South – Panel SWM in Room 104

Picture 15: D02 Smithsonian South – Panel SWM in Room 104 – Panel schedule



Picture 16: D02 Smithsonian South – Panel SWP-E in Room 104

Picture 17: D02 Smithsonian South – Panel SWP-E in Room 104 – Panel schedule



CIRCUIT DIRECTORY

Panel "SWP-E"

1. Emer. Lts. Outbound S. W. T	2 Emer. Lts. S. E. Tunn
3 " " "	" " " "
5. Emer. Lts. Rear S. W. Edge Train Rm.	6 Emer. Lts. South Train Room
7. Emer. Lts. South ℄ Train Room	8 Emer. Lts. South ℄ Train Room
9. Emerg. Lts. Upper Lvl. Mech. Comp. Rm.	10 Emer. Trip Sta. (SW&S Transf
11. Emer. Lts. S. W. Ancillary Rms.	12 Spare
13. Subfeed To "SWM-E" Via Trans.	14 Subfeed To "SEP-E"
15. HEMS - RTU	16 Spare Wall Lites West
17. Spare	18 Wall Lites West
	20 Wall Lites West - MEZZ. Lights
	22
	24
	26
	28
	30

OTES:

ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY WMATA

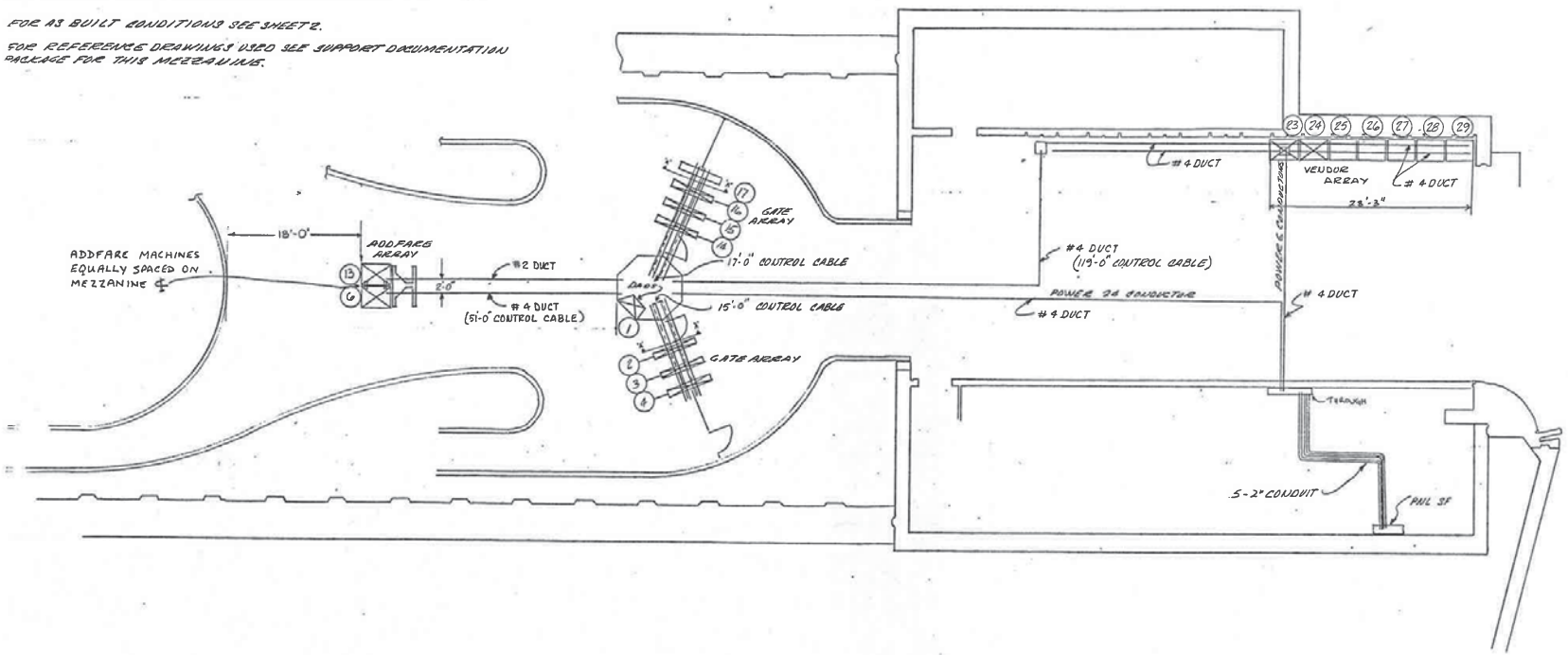
TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING

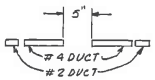
THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE X DRAWN THRU THE MACHINE

FOR AS BUILT CONDITIONS SEE SHEET 2.

FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REVISION A	7-13-77	





VIEW "A"-"A"

-2 INSTALLATION PLAN
(AS BUILT CONDITION)

Pre-Inspection Field Verification 11/04/2014

REFERENCE DRAWINGS USED

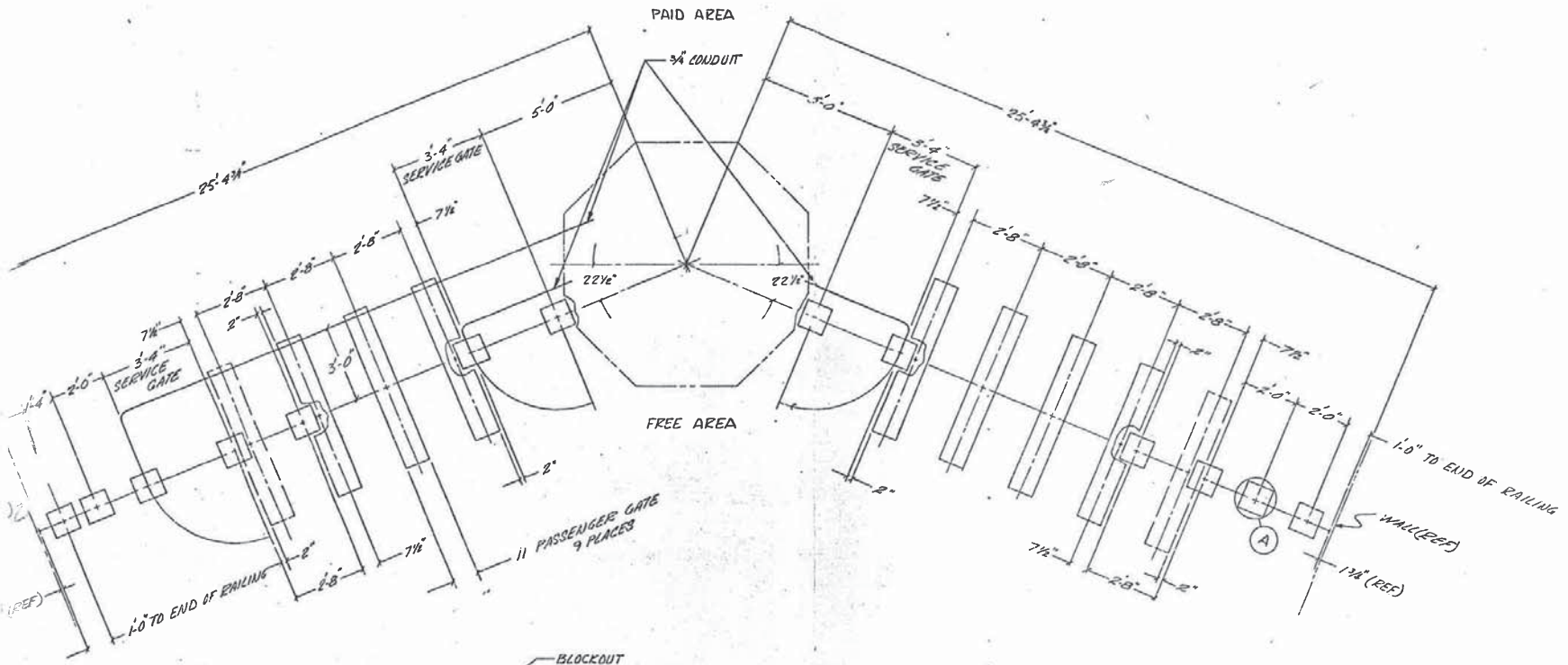
WMATA	REF. SK#	SK# 770, 799
WMATA	REF. DWG #	H65 98
CWD	REF DWG #	926-0319
CWD	REF DWG	926-0329 SH 3 & 4

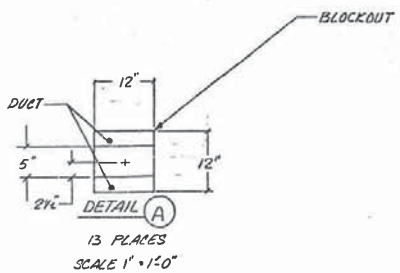
DDTC 22627

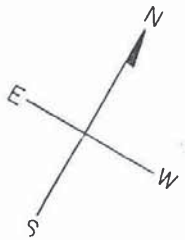
CONTRACT NUMBER	2Z007A
CUBIC WESTERN DATA	A subsidiary of Cubic Corporation, 5650 KEARNY MESA ROAD • POST OFFICE BOX 80787 • SAN DIEGO, CA 92138
REL / ENGRG / DESIGN / CHECK / DRAWN	
DESIGN ACTIVITY APPROVAL	Wally B. Powell 8-5-76
APPROVED	11/11/76
TITLE	SMITHSONIAN STATION SOUTH MEZZANINE AFC MACHINES
SIZE	
DRAWING NUMBER	926-0384
REV	S
SCALE	1/4"=1'0"
SHEET	1 OF 2

LESS: OTHERWISE SPECIFIED

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APVD







-1

SOUTH MEZZANINE

Pre-Inspection Field Verification 11/04/2014

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON DECIMALS .XX ± .03 .XXX ± .010 ANGLES ± 30'	CONTRACT NUMBER 23007A	CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE	REC MAINT STD ENGRG DESIGN CHECK DRAWN	SMITHSONIAN STATION SERVICE GATE & RAILING SOUTH MEZZANINE
HOLE DIA / TOLERANCES: .0135 THRU .125 +.004 −.001; .126 THRU .250 +.005 −.001; .256 THRU .500 +.006 −.001; .501 THRU .750 +.008 −.001; .751 THRU 1.000 +.010 −.001	DESIGN ACTIVITY APPROVAL Nils Smith FEB 5,'76	SIZE D; CAGE IDENT 94987; DRAWING NUMBER 926-0319; REV
	APPROVED	SCALE ½"=1'-0"; SK-770; SHEET 2 OF 2

WD-7

55

926-0319

EXISTING PANEL "SF"

AMPERES: **400**	VOLTS: **120/208**	MOUNTING: **SURFACE**	
MAINS: **400A MLO**	PHASE: **3**	LOCATION: ~~**MECHANICAL EQUIP. ROOM 214**~~ AC SWBD ROOM 104	
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	0.0	SPARE
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	0.0	SPARE
SPACE	0.0	-	-	19	A - -	20	3	20	2.9	EXIST. LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	21	- B -	22	-	-	2.5	
SPACE	0.0	-	-	23	- - C	24	-	-	2.5	
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.0	SPARE
1 **NEW KIOSK RECEPT. (IT & NEPP)**	**0.8**	20	1	27	- B -	28	1	20	0.0	SPARE
1&2 **SPARE (KIOSK)**	**0.0**	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
SPARE	0.0	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
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	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 "SF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD ~~"AC02-SOUTH"~~ SGB LOCATE IN AC SWBD RM 104, ~~CIRCUIT #3~~ —100A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 5-1 1/2" C. (3-WIRING FILL >40%) & (2-WIRING FILL >20%).

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

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

Breaker 'D02-SGB-09' (Breaker #9)

Pre-Inspection Field Verification 11/04/2014

EXISTING PANEL "NF"

AMPERES: **400**	VOLTS: **120/208**	MOUNTING: **SURFACE**	
MAINS: **400A MLO**	PHASE: **3**	LOCATION: **MECHANICAL EQUIP. ROOM 205**	
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	
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**	**NEW KIOSK RECEPT. (IT & NEPP)**	1
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	**0.0**	**SPARE (KIOSK)**	1&2
SPARE	0.0	20	1	25	A - -	26	1	20	0.8	EXISTING VENDOR	
EXIST. LOAD CENTER "KES"	2.9	40	3	27	- B -	28	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	29	- - C	30	-	-	0.0	SPACE	
	2.5	-	-	31	A - -	32	-	-	0.0	SPACE	
SPACE	0.0	-	-	33	- B -	34	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	35	- - C	36	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	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	12.0 x 50%		6.0 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	**29.5 KVA**	**TOTAL DEMAND KVA**	**24.3 KVA**
		TOTAL DEMAND AMPS	**67.4 AMPS**
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.7 KVA		
PHASE B:	10.9 KVA		
PHASE C:	8.9 KVA		

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "NMH" LOCATE IN MECH. EQUIP. ROOM 205, CIRCUIT #4—125A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).

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

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED	C. NGO	10-14 DATE
DRAWN	C. NGO	10-14 DATE
CHECKED	B. IDILBI	10-14 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 _____

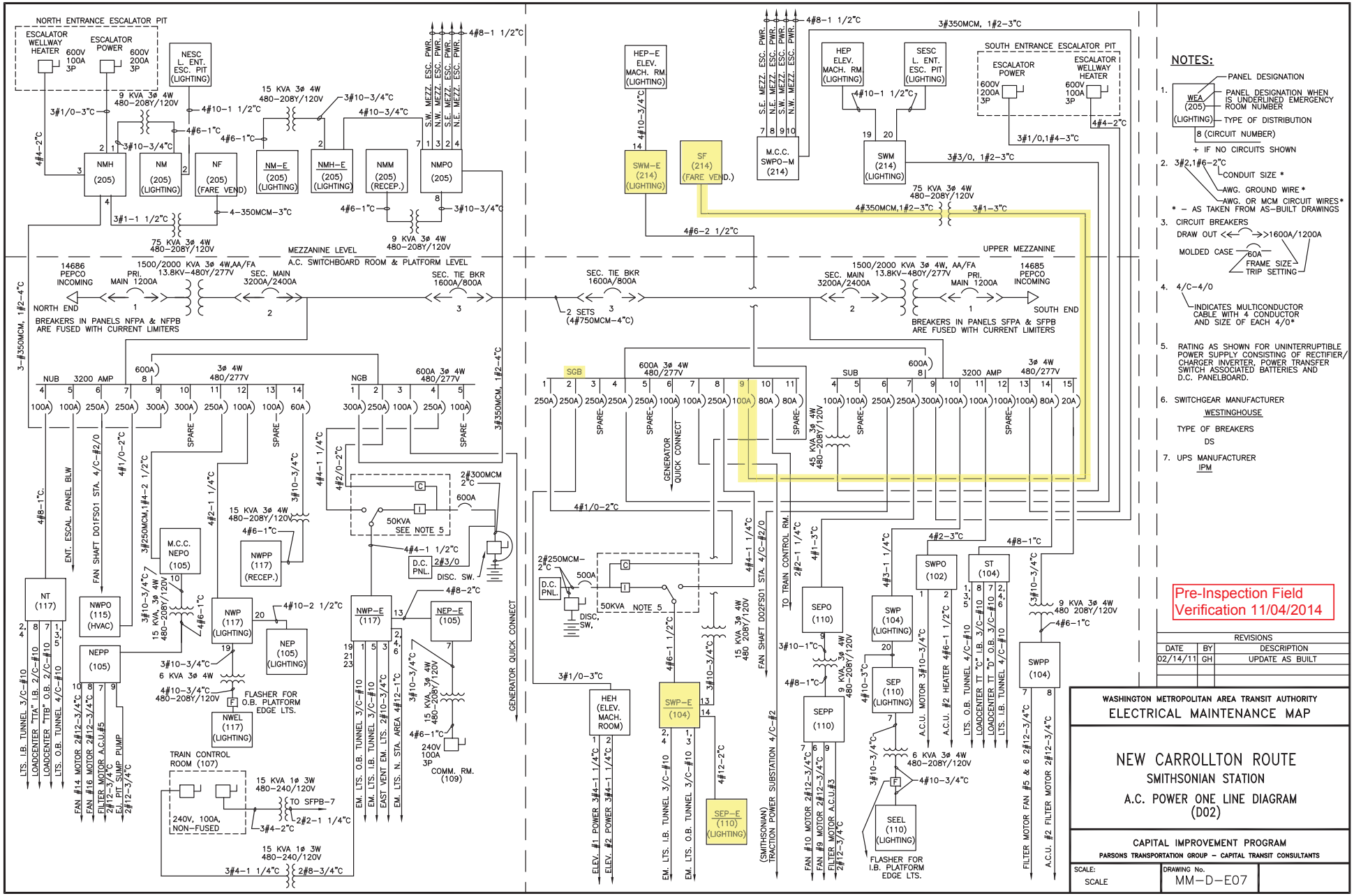
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE

DRAWING NO.: D02-E-102



NOTES:

1. PANEL DESIGNATION
   WEA (205) (LIGHTING) 8
   PANEL DESIGNATION WHEN IS UNDERLINED EMERGENCY ROOM NUMBER
   TYPE OF DISTRIBUTION
   (CIRCUIT NUMBER)
   + IF NO CIRCUITS SHOWN
2. 3#2,1#6–2"C
   CONDUIT SIZE *
   AWG. GROUND WIRE *
   AWG. OR MCM CIRCUIT WIRES *
   * – AS TAKEN FROM AS–BUILT DRAWINGS
3. CIRCUIT BREAKERS
   DRAW OUT <<–>> 1600A/1200A
   MOLDED CASE 60A FRAME SIZE / TRIP SETTING
4. 4/C–4/0
   INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR 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
   WESTINGHOUSE
   TYPE OF BREAKERS
   DS
7. UPS MANUFACTURER
   IPM

Pre-Inspection Field Verification 11/04/2014

REVISIONS		
DATE	BY	DESCRIPTION
02/14/11	GH	UPDATE AS BUILT

DESIGNED G HOLMES 01/12/2011
DRAWN G HOLMES 02/08/2011
CHECKED B GHORBAN 02/17/2011
APPROVED A ROBINSON 02/18/2011
DATE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE

SMITHSONIAN STATION

A.C. POWER ONE LINE DIAGRAM (D02)

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE: SCALE

DRAWING No. MM–D–E07

CADFILE

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 08/28/2014	**Station Name:** L'Enfant Plaza West	**Mezzanine #** 056	**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: WB (AFC Source Panel) WE (WEZ Source Panel) Source Breaker Name/Number: "Panel WF", Circuit #7 Circuit #6 on Panel WE Electrical AFC Panel Name/Number: WF	W104 W104 W104	Room W104 is AC SWBD. RM. Located Wayside on Track 1 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. YES (see notes)		AFC Panel (WF) shares a junction box (shared raceway) with Panel WEZ whose source panel is Panel WE. Panel WEZ will have to be de-energized by LOTO Circuit #6, 3PH Breaker on Panel WE.
☑	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		Conduits/Ducts on Two Levels (Platform level Overhead Conduit that transitions to Mezzanine Level handholes.

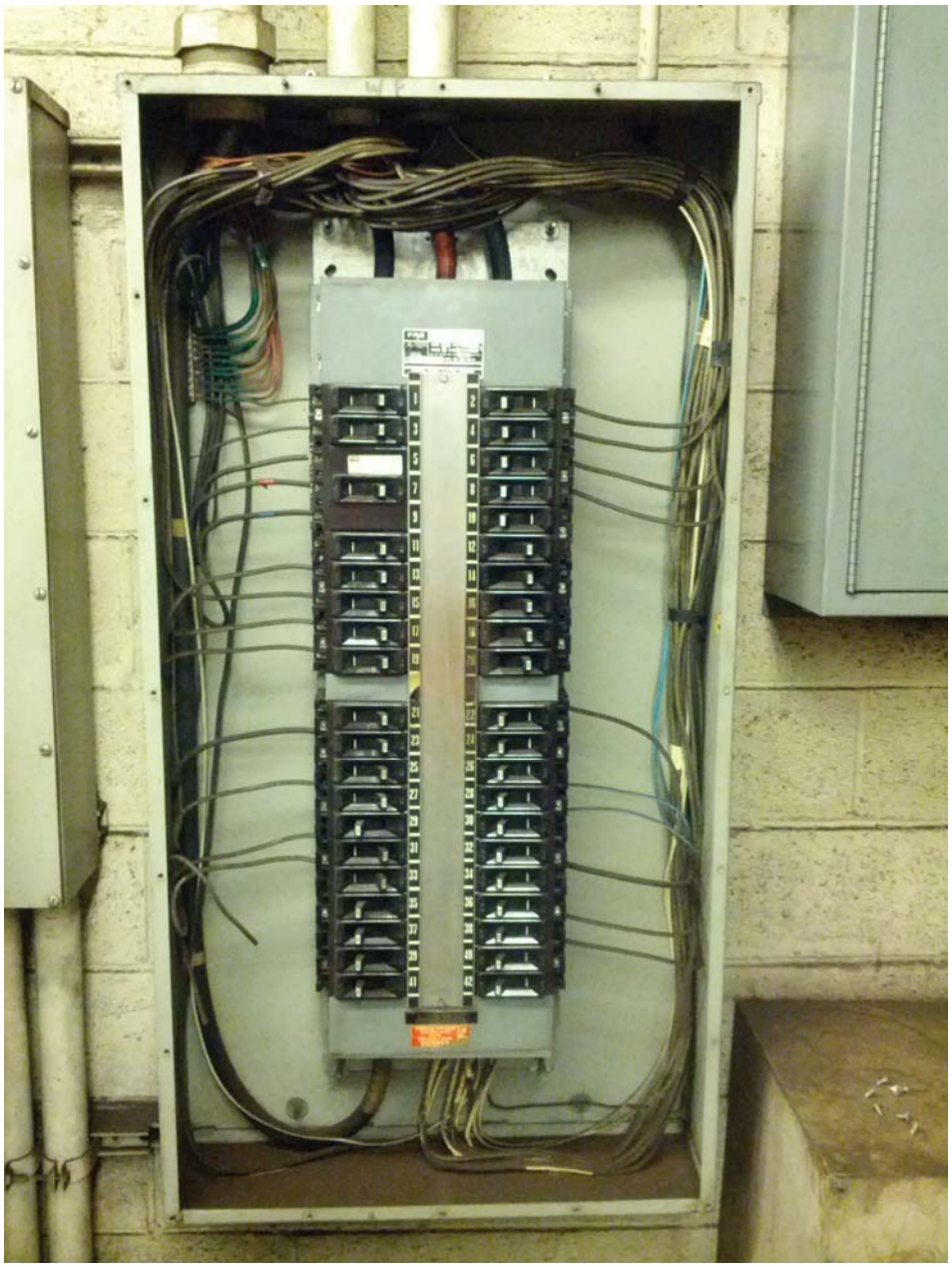
Emergency Power Verification

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	☐	☐	☑	

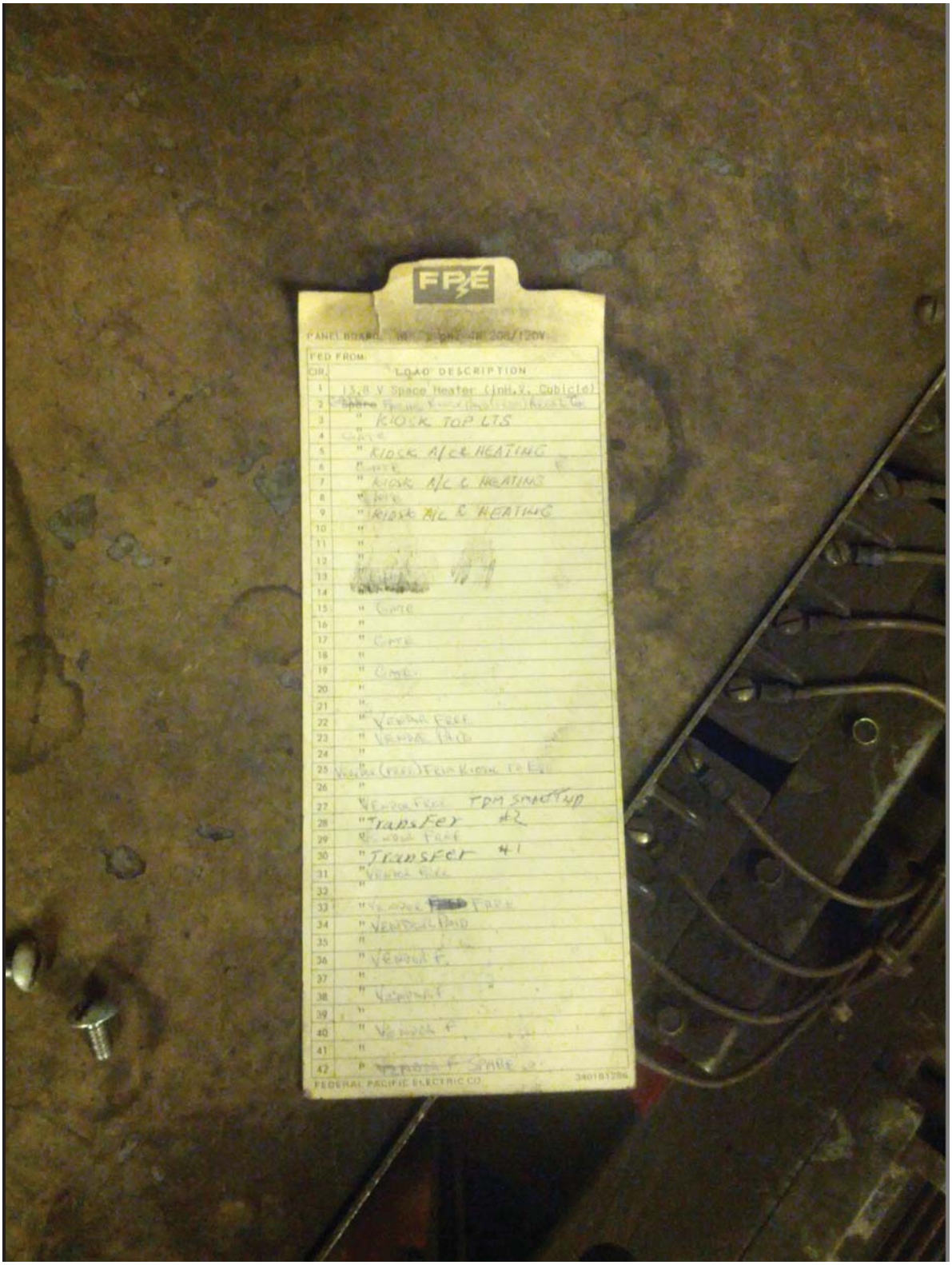
Notes and Discrepancies:

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

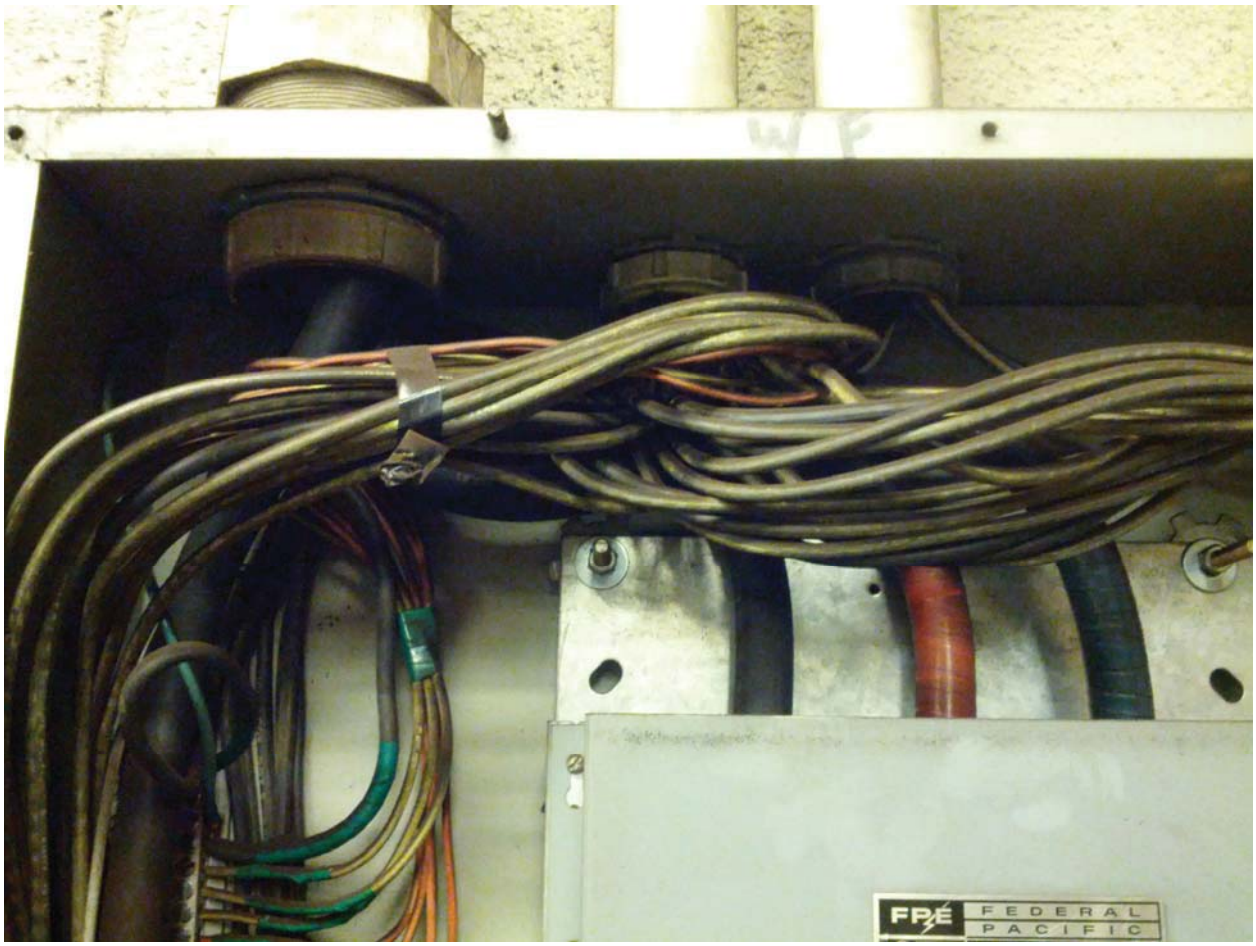
L’Enfant Plaza West Photo #1 – AFC Panel (WF) Located on Platform Level Track 1 Wayside (Rm. W104)



L’Enfant Plaza West Photo #2 – AFC Panel (WF) Panel Schedule



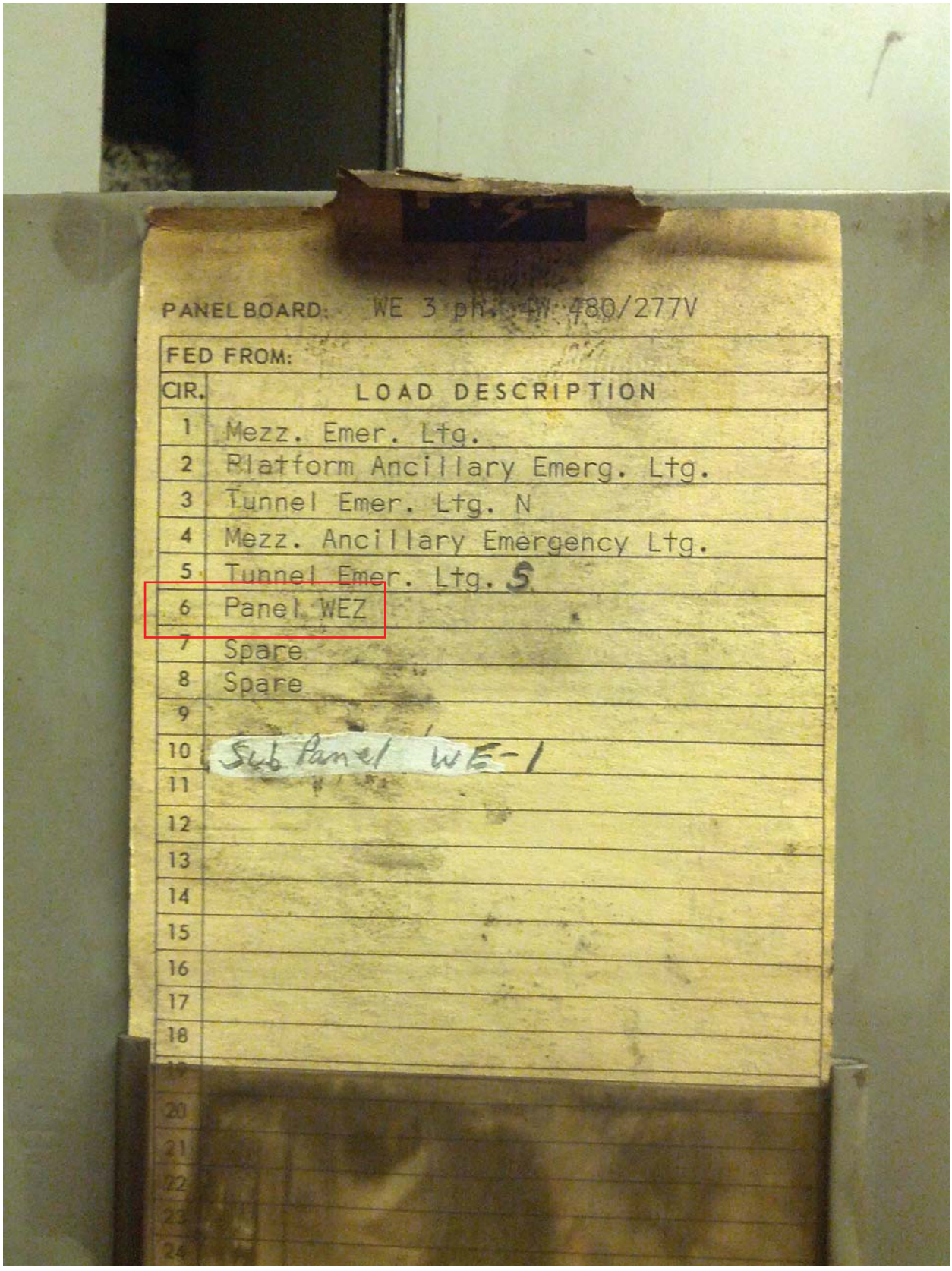
L’Enfant Plaza West Photo #3 – AFC Panel (WF) Top Feed Conduits



L’Enfant Plaza West Photo #4 - AFC Source Switchboard (WB) located in Room #W104 on Platform Level Track 1 Wayside. Source Breaker (Panel “WF”) Circuit #7 for AFC Panel (WF).

L’Enfant Plaza West Photo #5 – Source Panel (WE) for Panel WEZ which shares junction box with AFC Panel (WF) and has to be de-energized.

L’Enfant Plaza West Photo #6 – Source Panel (WE) Panel Schedule



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

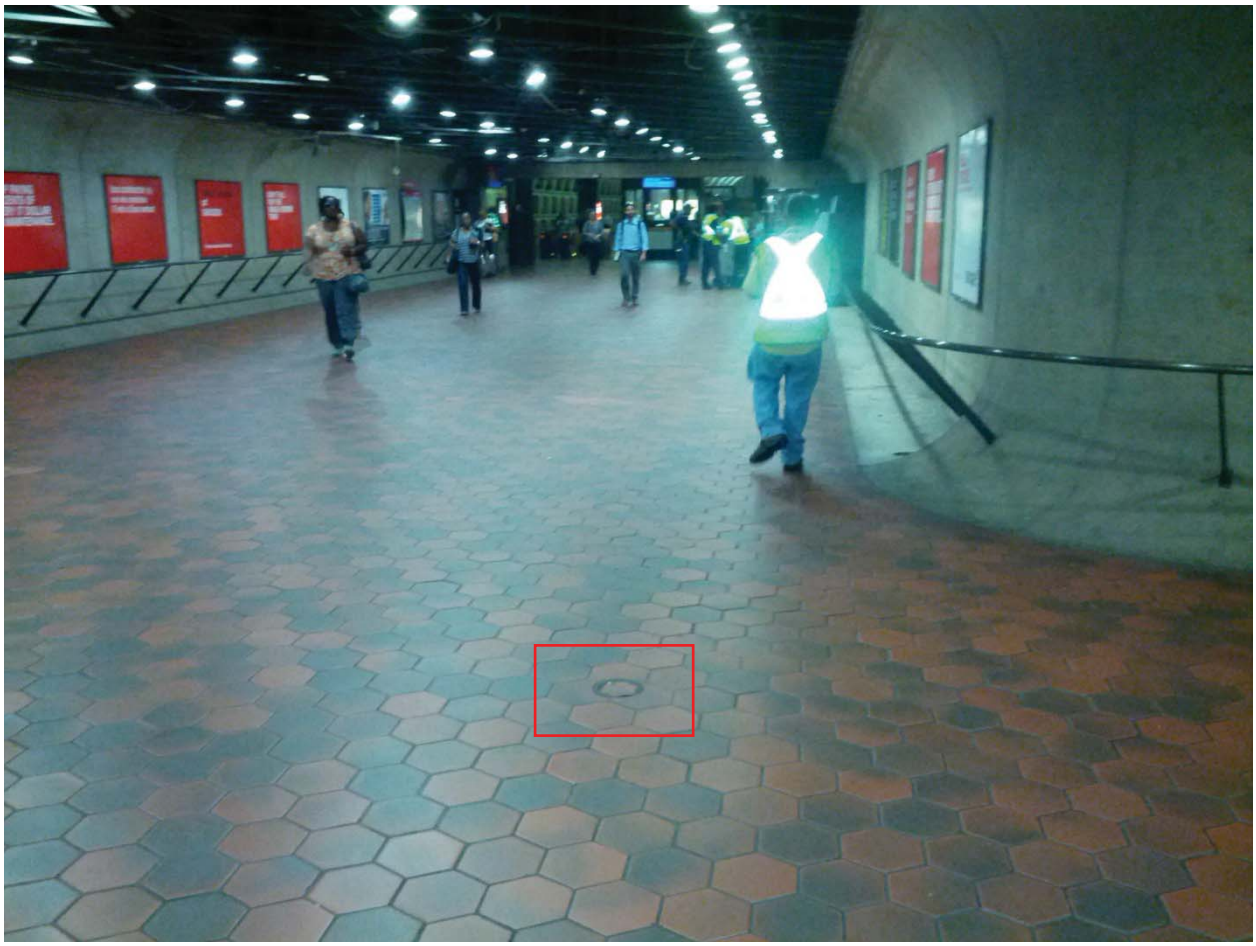
FED FROM:

CIR.	LOAD DESCRIPTION
1	Mezz. Emer. Ltg.
2	Platform Ancillary Emerg. Ltg.
3	Tunnel Emer. Ltg. N
4	Mezz. Ancillary Emergency Ltg.
5	Tunnel Emer. Ltg. S
6	Panel WEZ
7	Spare
8	Spare
9	
10	Sub Panel WE-1
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

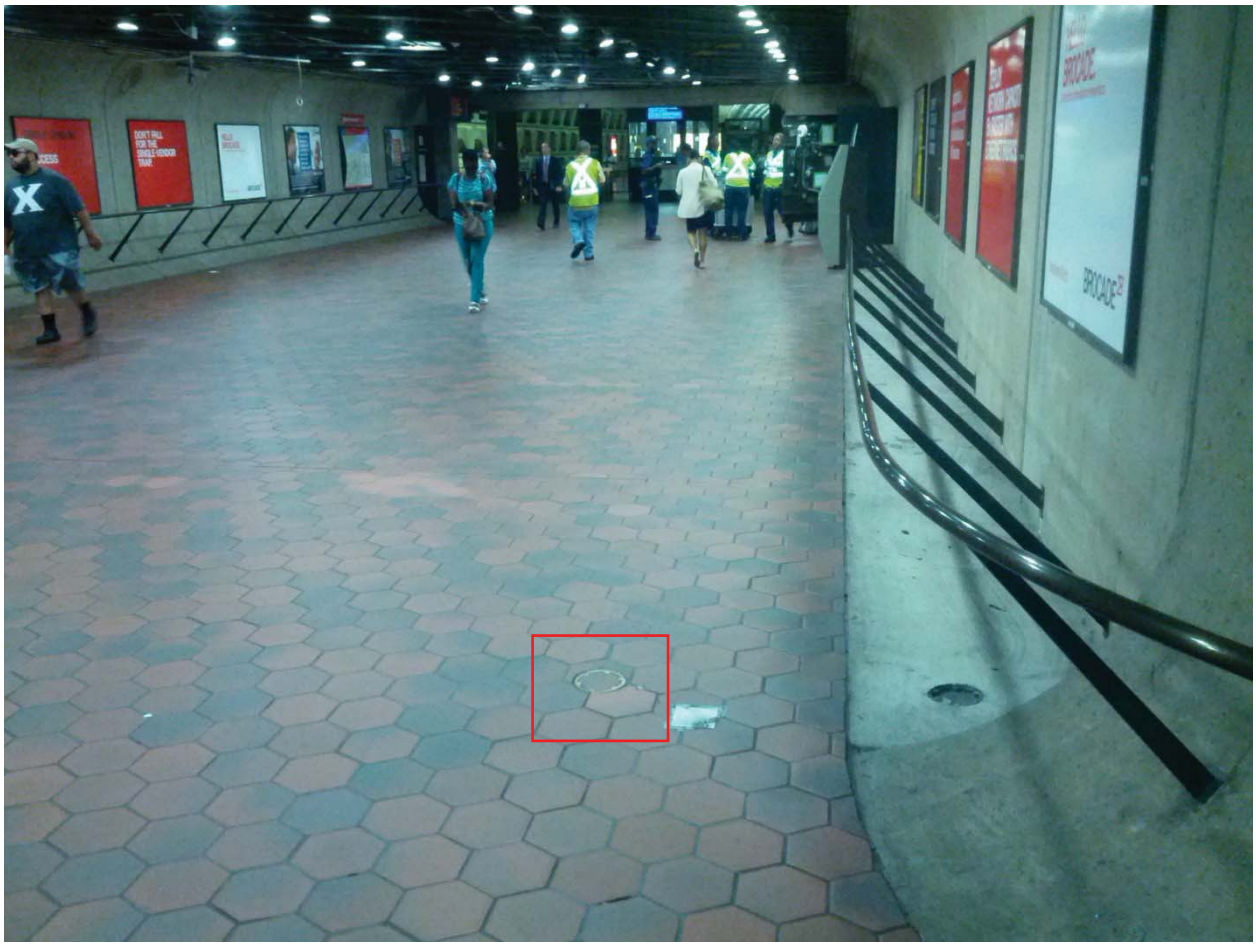
L’Enfant Plaza West Photo #7 –Shared Junction Box for AFC Panel (WF) and Panel (WEZ) where overhead conduits land in same junction box. Platform Level in Rm. W104 Track 1 Wayside.

L’Enfant Plaza West Photo #8 –Shared Junction Box for AFC Panel (WF) and Panel (WEZ) where overhead conduits land in same junction box. Platform Level in Rm. W104 Track 1 Wayside.

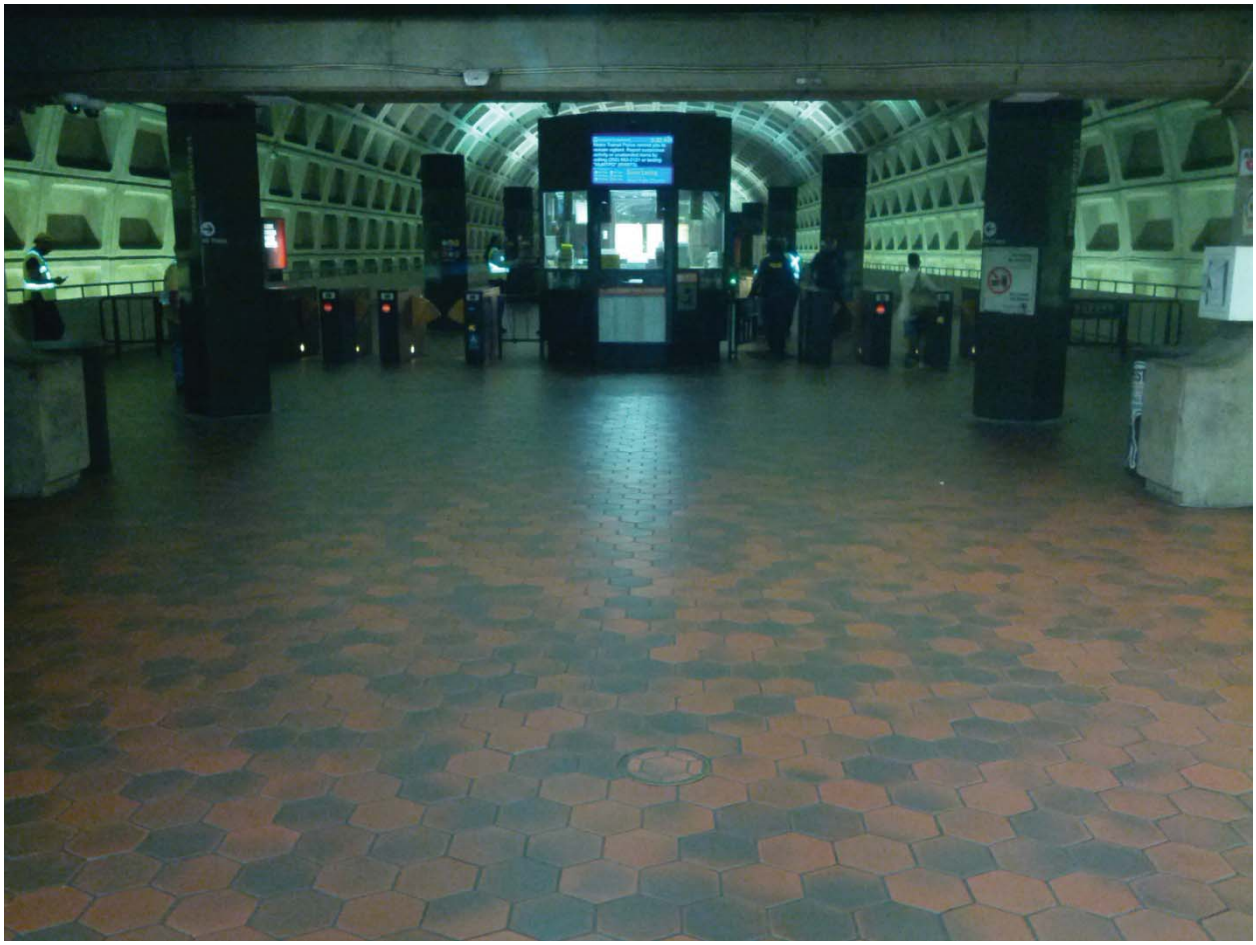
L’Enfant Plaza West Photo #9 – Handhole located on Mezzanine Level about 100’ from Kiosk



L’Enfant Plaza West Photo #10 – Handhole located on Mezzanine Level about 70’ from Kiosk and possible location where junction box from platform level below transitions to Mezzanine Level (Metal Plate)



L’Enfant Plaza North Photo #11 – Handhole located on Mezzanine Level about 40’ from Kiosk



EXISTING PANEL "EF"

AMPERES 400	VOLTS: 120/208			MOUNTING: SURFACE						
MAINS 400A MLO	PHASE: 3			LOCATION: ROOM E206						
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
EXIST. KIOSK LOAD CENTER "KES"	2.9	30	3	5	- - C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A - -	8	1	20	0.8	EXISTING VENDOR
	2.5	-	-	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	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE
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	-	-	0.0	SPACE
SPARE	0.0	20	1	27	- B -	28	-	-	0.0	SPACE
SPARE	0.0	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	33	- B -	34	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP) 1
SPARE	0.0	20	1	35	- - C	36	1	20	0.0	SPARE (KIOSK) 1&2
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
SPARE	0.0	20	1	43	A - -	44	1	20	0.8	EXISTING VENDOR

NOTES 1. CONNECT NEW FEEDER TO EXISTING 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:	9.7 KVA		
PHASE B:	8.9 KVA		
PHASE C:	6.9 KVA		

NOTES:
A. EXISTING PANEL "EF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "EB" LOCATED IN AC SWBD. RM. 103, CIRCUIT #7–90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM–D–E09).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1–1 1/2" EMPTY CONDUIT.
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1– 3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 1– 4" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 3–1 1/2" C. (WIRING FILL >40%).
* 1–3/4" C. (WIRING FILL >40%).

EXISTING PANEL "WF"

AMPERES: 400	VOLTS: 120/208			MOUNTING: SURFACE						
MAINS: 225A MLO	PHASE: 3			LOCATION: AC SWBD ROOM W104						
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
EXIST. KIOSK LOAD CENTER "KES"	2.9	30	3	5	- - C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A - -	8	1	20	0.8	EXISTING VENDOR
	2.5	-	-	9	- B -	10	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP) 1
SPARE	0.0	20	1	11	- - C	12	1	20	0.0	SPARE (KIOSK) 1&2
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	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE
SPACE	0.0	-	-	21	- B -	22	-	-	0.0	SPACE
SPARE	0.0	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
SPARE	0.0	20	1	27	- B -	28	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	33	- B -	34	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	35	- - C	36	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	37	A - -	38	1	20	0.0	SPARE
SPARE	0.0	20	1	39	- B -	40	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	41	- - C	42	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	43	A - -	44	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	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:	8.5 KVA		

NOTES:
A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "WB" LOCATED IN AC SWBD. RM. W104, CIRCUIT #7–90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM–D–E09).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1–4" C. TO TRANSFORMER (WIRING FILL >40%).
* 1–3/4" C. (WIRING FILL >40%).
* 2– 1 1/2" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED C. MOD 08-14 DATE
DRAWN C. MOD 08-14 DATE
CHECKED B. EHLB 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

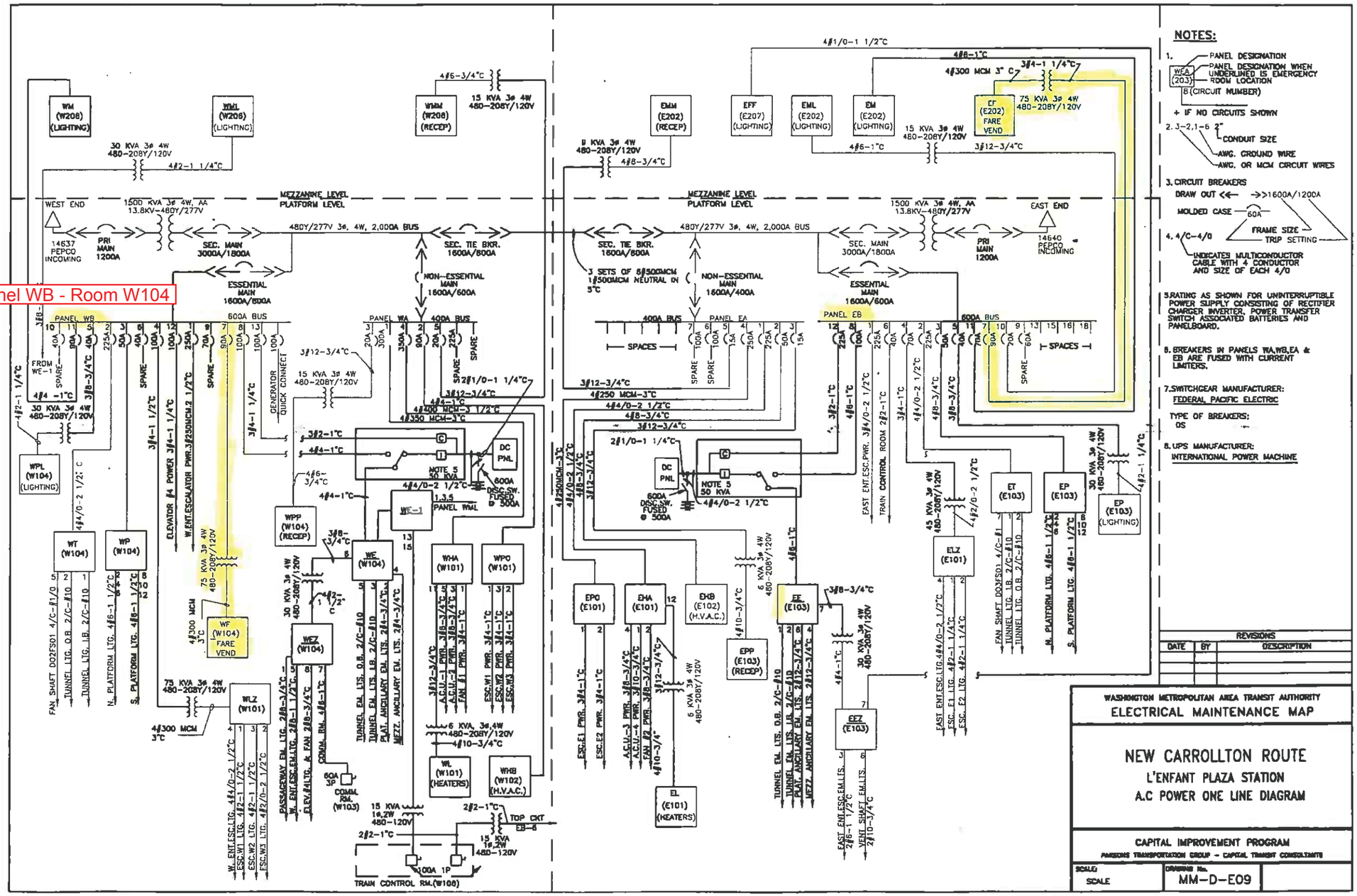
SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
L'ENFANT PLAZE - EAST & WEST
PANEL SCHEDULES

SCALE: NOT TO SCALE

DRAWING NO.: D03-E-102

Panel WB - Room W104



Pre-Inspection Mezzanine Walkthrough Checklist

Date: 08/28/2014	**Station Name:** L'Enfant Plaza East	**Mezzanine #** 057	**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: EB Source Breaker Name/Number: "Panel EF" (Circuit #7) Electrical AFC Panel Name/Number: EF	103 103 E206	Room 103 is AC SWBD. RM. Located Wayside on Track 1 on Platform level. Room E206 is on the Mezzanine 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 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. NO		
☑	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:		There are no special escorts requirements.
☑	Identify handhole or manhole access requirement.	Required PLNT Support for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		No handholes on mezzanine level; straight run from AFC Panel (EF) to Kiosk with 90 or 45 degree bend.

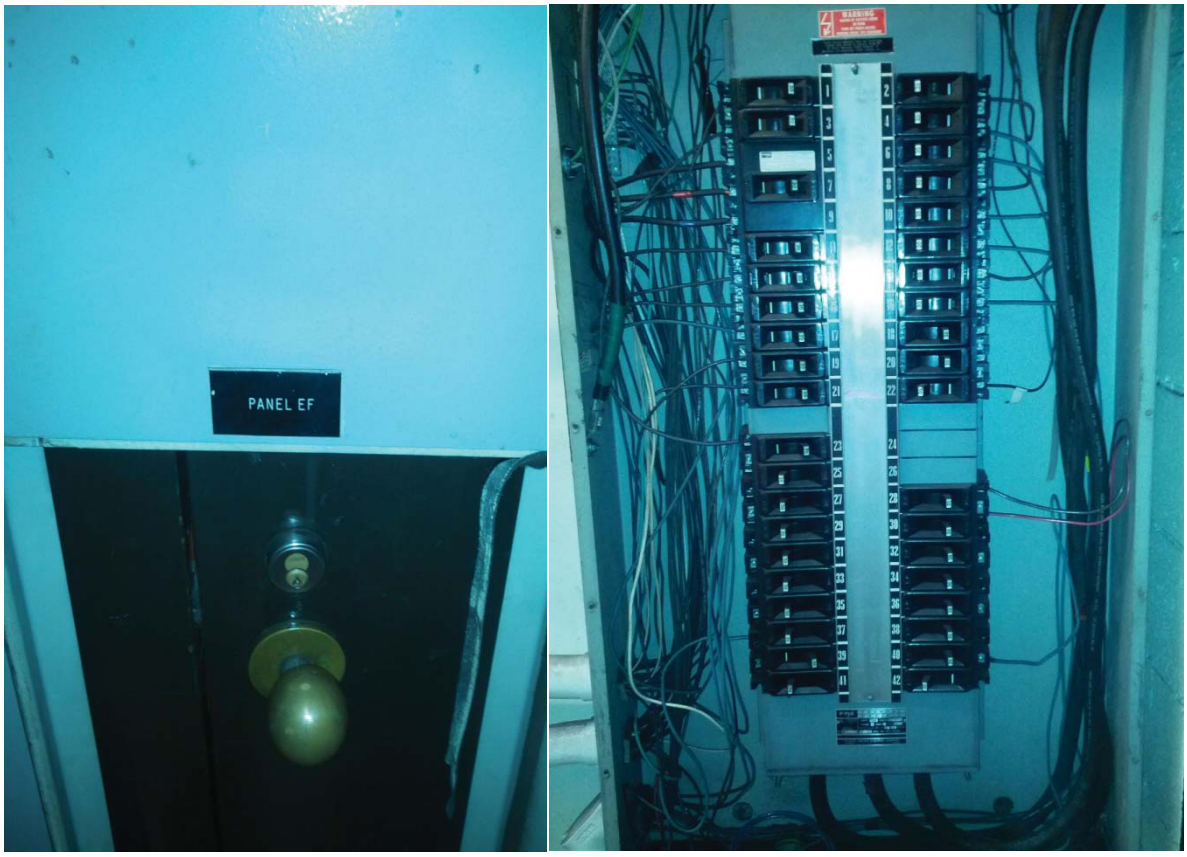
Emergency Power Verification

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	☐	☐	☑	

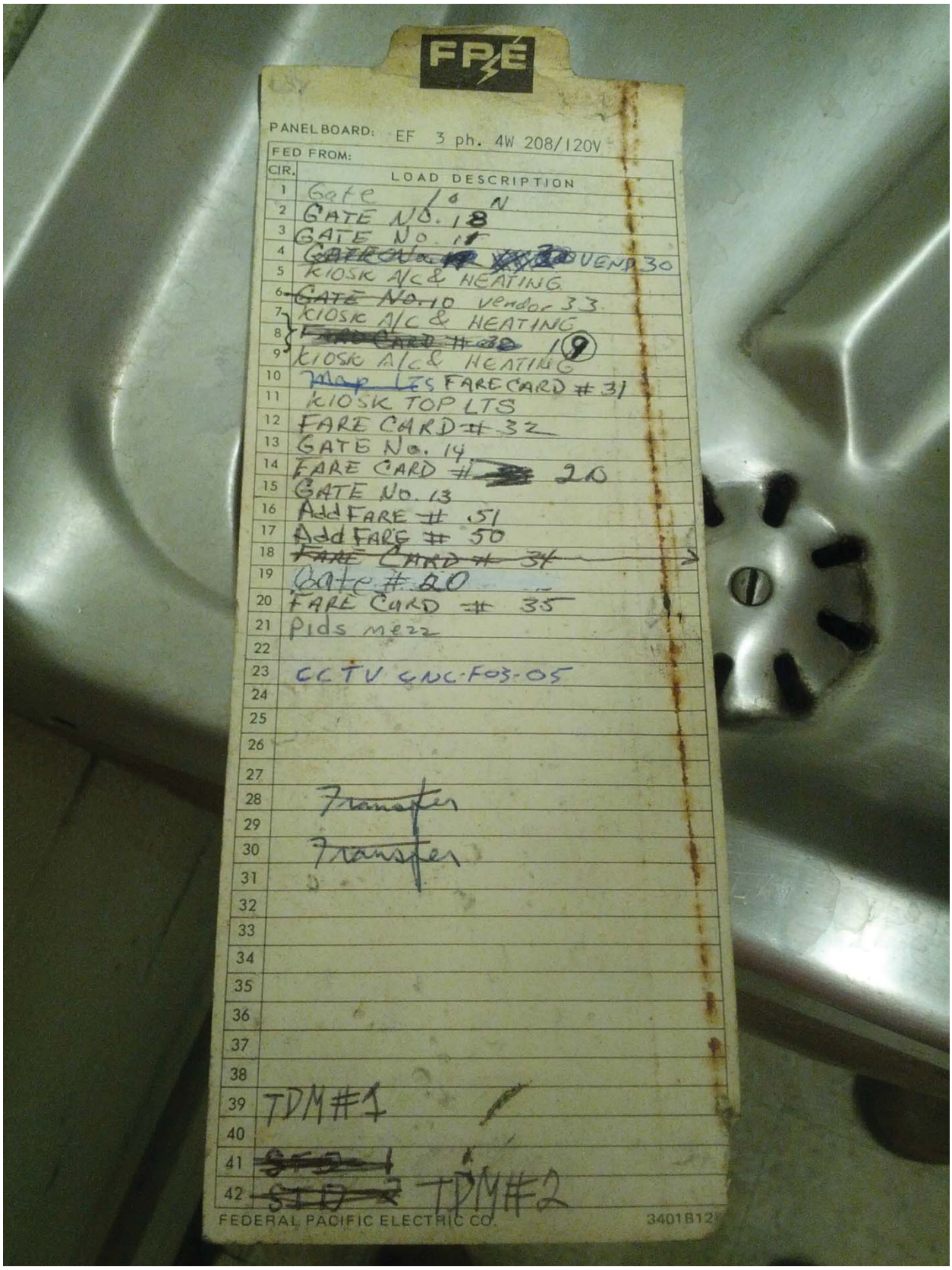
Notes and Discrepancies:

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

L’Enfant Plaza East Photo #1 – AFC Panel (EF) - Room E206 (Mezzanine Level)



L’Enfant Plaza East Photo #2 – AFC Panel (EF) Panel Schedule



FPE

PANEL BOARD: EF 3 ph. 4W 208/120V

FED FROM:

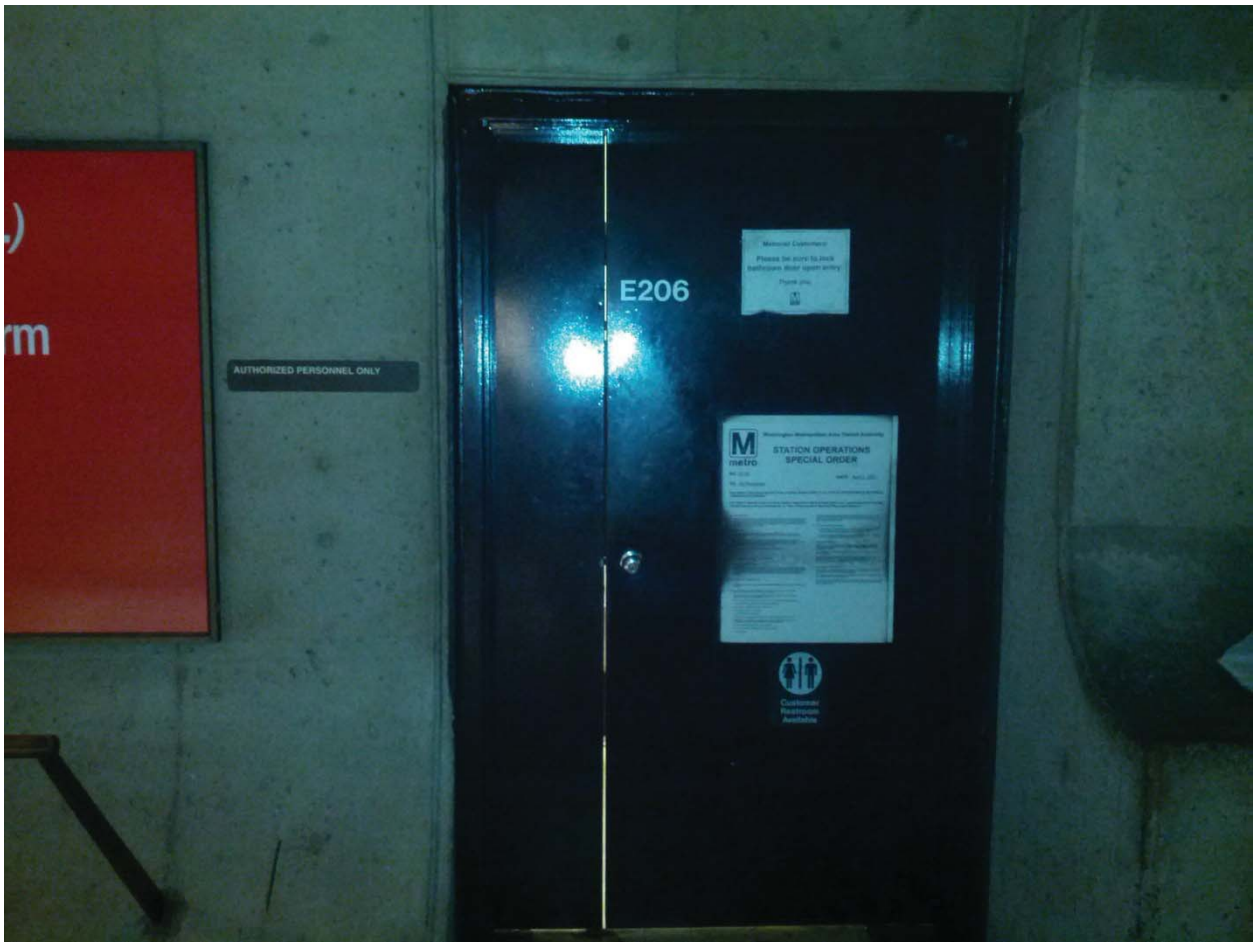
CIR.	LOAD DESCRIPTION
1	Gate 10 N
2	GATE NO. 18
3	GATE No. 17
4	[illegible] VEND 30
5	KIOSK A/C & HEATING
6	~~GATE No. 10~~ Vendor 33
7	KIOSK A/C & HEATING
8	~~FARE CARD #~~ 19
9	KIOSK A/C & HEATING
10	Map LTS FARE CARD # 31
11	KIOSK TOP LTS
12	FARE CARD # 32
13	GATE No. 14
14	FARE CARD # 20
15	GATE No. 13
16	Add FARE # 51
17	Add FARE # 50
18	~~FARE CARD # 34~~
19	Gate # 20
20	FARE CARD # 35
21	Pids mezz
22	
23	CCTV GNC-F03-05
24	
25	
26	
27	
28	Transfer
29	
30	Transfer
31	
32	
33	
34	
35	
36	
37	
38	
39	TDM#1
40	
41	~~SPD 1~~
42	~~SPD 2~~ TDM#2

FEDERAL PACIFIC ELECTRIC CO. 3401B12

L’Enfant Plaza East Photo #3 – AFC Panel (EF) – Bottom Trough (NOT SHARED) and Walker Duct Transition

L’Enfant Plaza East Photo #4 –AFC Source Switchboard (EB) located in Room #103 on Platform Level Track 1 Wayside. Source Breaker (Panel “EF”) Circuit #7 for AFC Panel (EB).

L’Enfant Plaza East Photo #5 – AFC Panel (EF) - Room E206 (Mezzanine Level)



EXISTING PANEL "EF"

AMPERES 400	VOLTS: 120/208			MOUNTING: SURFACE						
MAINS 400A MLO	PHASE: 3			LOCATION: ROOM E206						
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
EXIST. KIOSK LOAD CENTER "KES"	2.9	30	3	5	- - C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A - -	8	1	20	0.8	EXISTING VENDOR
	2.5	-	-	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	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE
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	-	-	0.0	SPACE
SPARE	0.0	20	1	27	- B -	28	-	-	0.0	SPACE
SPARE	0.0	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	33	- B -	34	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP) 1
SPARE	0.0	20	1	35	- - C	36	1	20	0.0	SPARE (KIOSK) 1&2
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
SPARE	0.0	20	1	43	A - -	44	1	20	0.8	EXISTING VENDOR

NOTES 1. CONNECT NEW FEEDER TO EXISTING 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:	9.7 KVA		
PHASE B:	8.9 KVA		
PHASE C:	6.9 KVA		

NOTES:
A. EXISTING PANEL "EF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "EB" LOCATED IN AC SWBD. RM. 103, CIRCUIT #7–90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM–D–E09).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1–1 1/2" EMPTY CONDUIT.
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1– 3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 1– 4" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 3–1 1/2" C. (WIRING FILL >40%).
* 1–3/4" C. (WIRING FILL >40%).

EXISTING PANEL "WF"

AMPERES: 400	VOLTS: 120/208			MOUNTING: SURFACE						
MAINS: 225A MLO	PHASE: 3			LOCATION: AC SWBD ROOM W104						
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
EXIST. KIOSK LOAD CENTER "KES"	2.9	30	3	5	- - C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A - -	8	1	20	0.8	EXISTING VENDOR
	2.5	-	-	9	- B -	10	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP) 1
SPARE	0.0	20	1	11	- - C	12	1	20	0.0	SPARE (KIOSK) 1&2
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	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE
SPACE	0.0	-	-	21	- B -	22	-	-	0.0	SPACE
SPARE	0.0	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
SPARE	0.0	20	1	27	- B -	28	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	33	- B -	34	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	35	- - C	36	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	37	A - -	38	1	20	0.0	SPARE
SPARE	0.0	20	1	39	- B -	40	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	41	- - C	42	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	43	A - -	44	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	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:	8.5 KVA		

NOTES:
A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "WB" LOCATED IN AC SWBD. RM. W104, CIRCUIT #7–90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM–D–E09).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1–4" C. TO TRANSFORMER (WIRING FILL >40%).
* 1–3/4" C. (WIRING FILL >40%).
* 2– 1 1/2" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED C. MOD 08-14 DATE
DRAWN C. MOD 08-14 DATE
CHECKED B. EHLB 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 _____

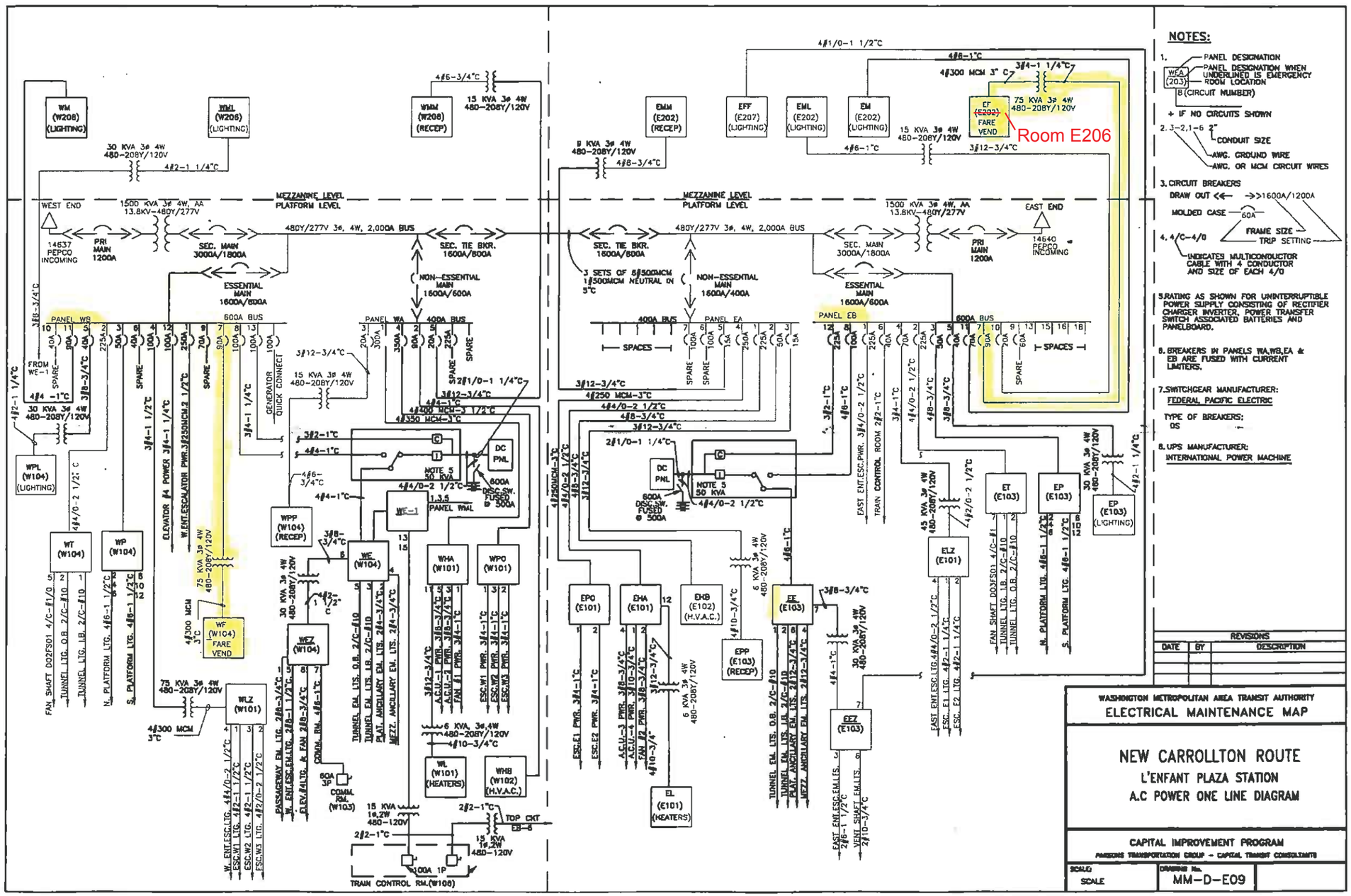
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
L'ENFANT PLAZE - EAST & WEST
PANEL SCHEDULES

SCALE: NOT TO SCALE

DRAWING NO.: D03-E-102



Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	**Station Name:** Federal Center SW - D04	**Mezzanine #:** 058	**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: WGB (REAR) Source Breaker Name/Number: "D04-WGB-04" (Breaker #4) Electrical AFC Panel Name/Number: F	Rm 303 Rm 303 Rm 206	Room 303 (AC SWBD room) Track 1 wayside.
☑	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:		
☑	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 apprx. 164ft.

Emergency Power Verification

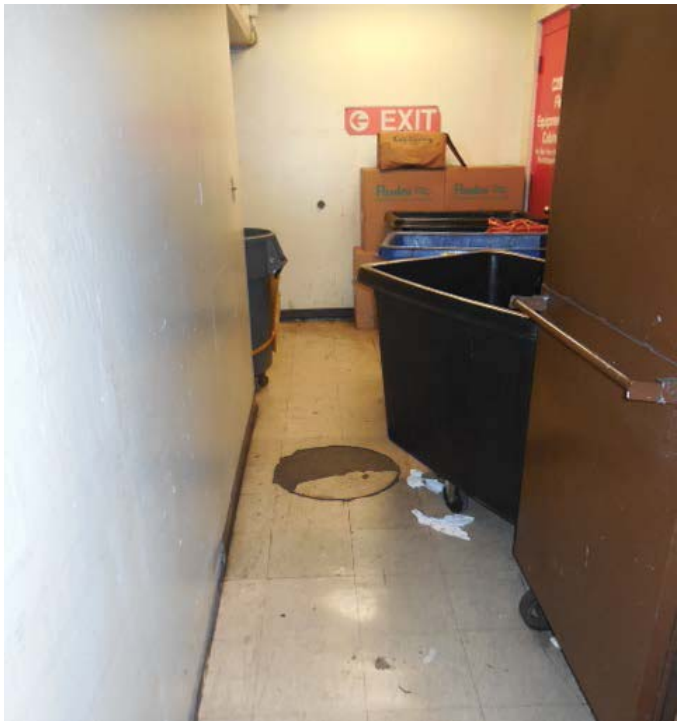
Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Panel KE Source Breaker Name/Number: Breaker #4 Panel Name/Number: Emergency Power to Faregates	Kiosk Kiosk	

Notes and Discrepancies:

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

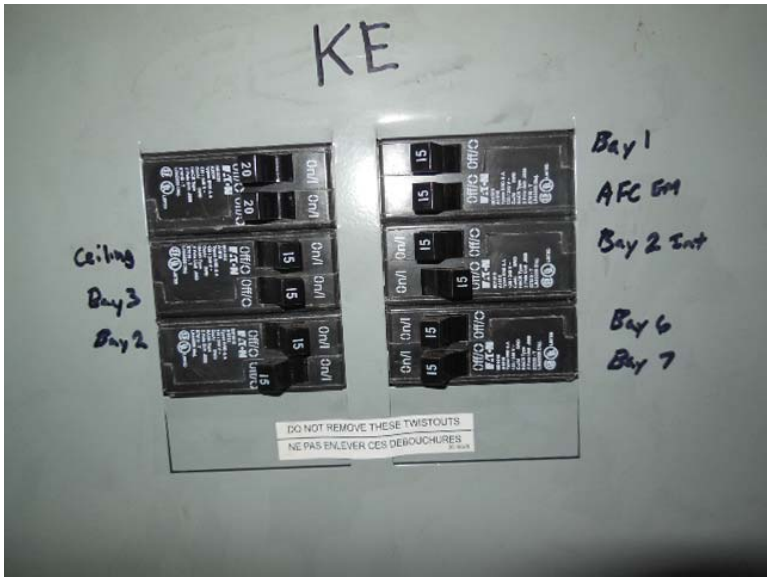
Pictures 1&2: D04 Federal Center SW – Handholes and manhole in mezzanine

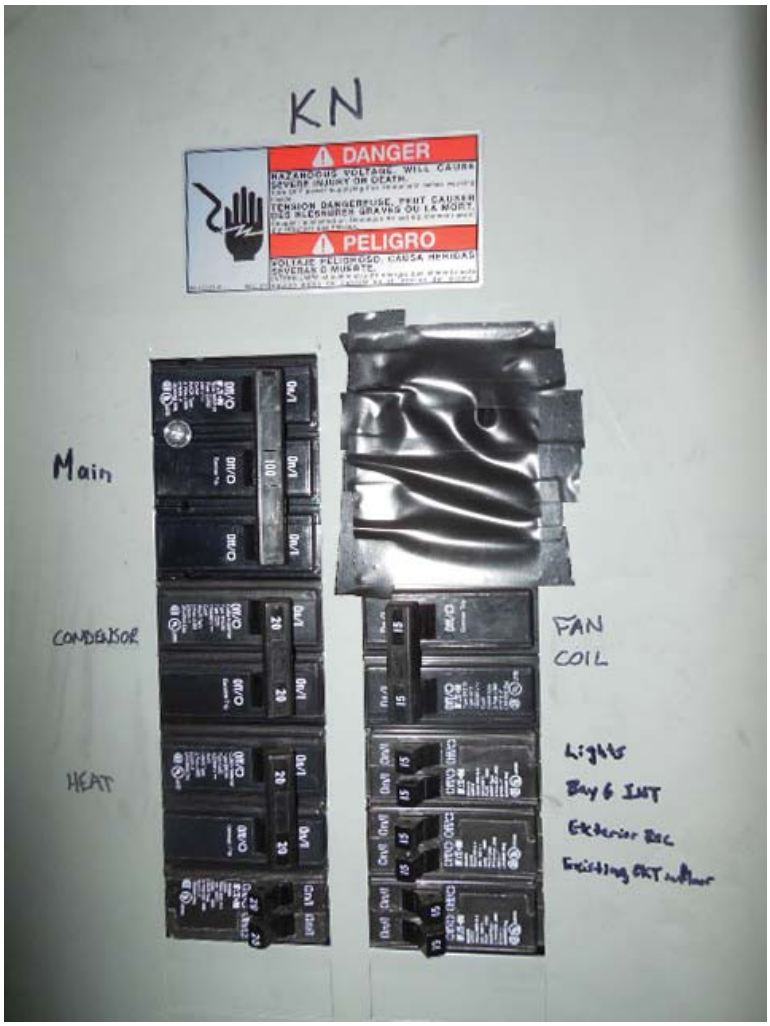
Pictures 3&4: D04 Federal Center SW – Manholes in maintenance corridor



Picture 5: D04 Federal Center SW – Ducts & conduits running up wall in maintenance corridor

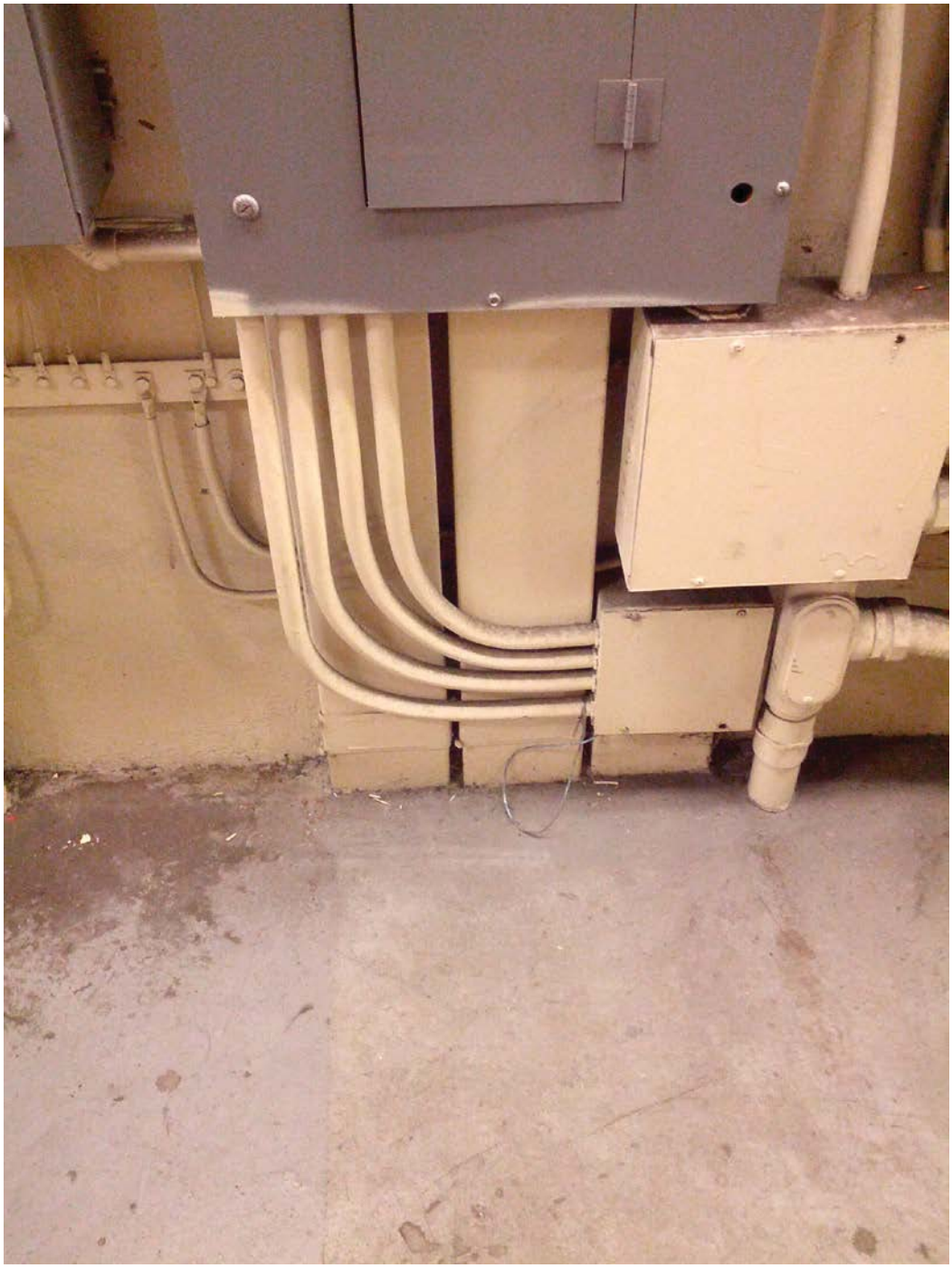
Pictures 6&7: D04 Federal Center SW – Emergency Panels KE & KN in Kiosk



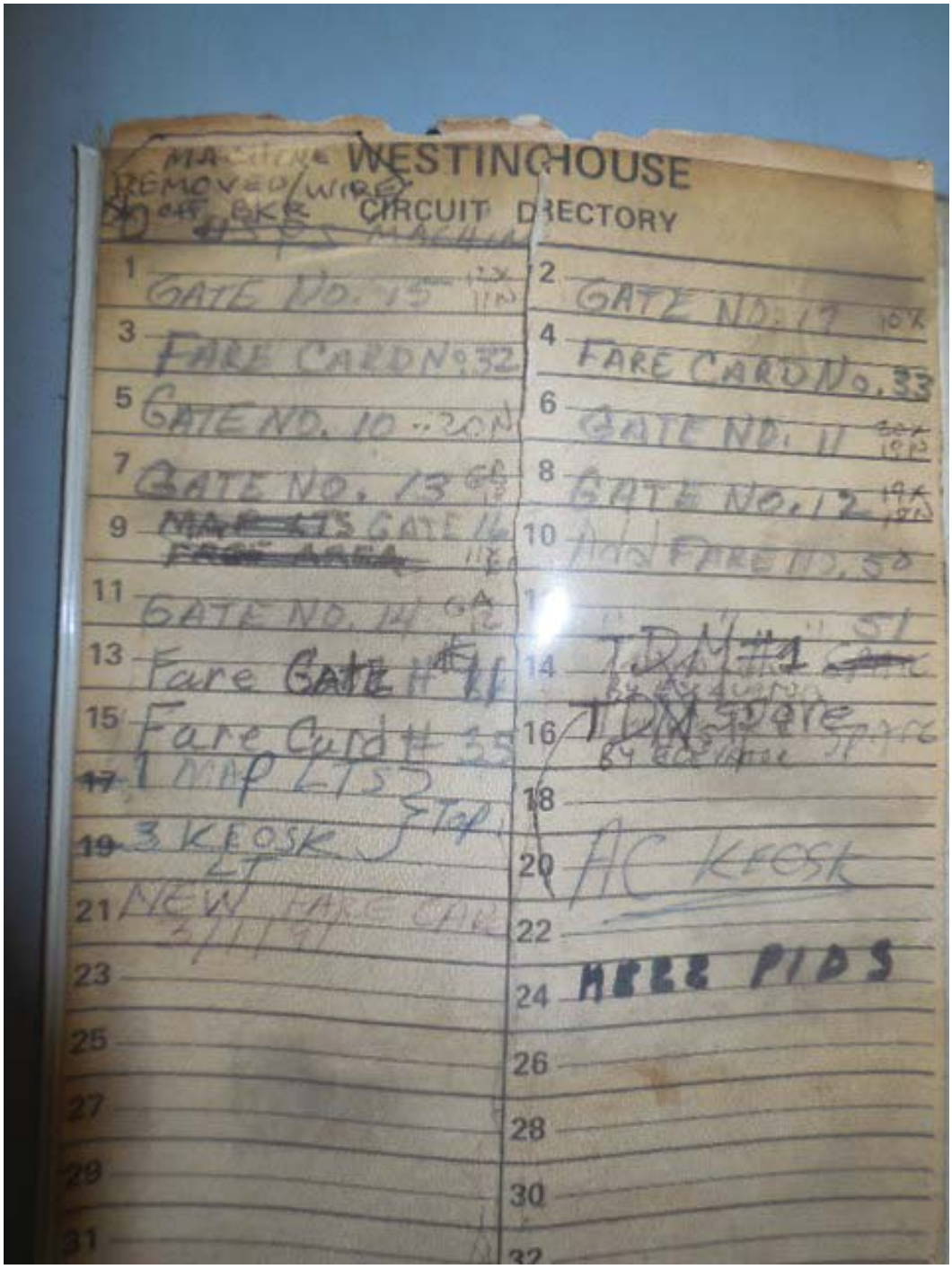


Picture 8: D04 Federal Center SW – AFC Panel F in room 206

Picture 9: D04 Federal Center SW – AFC Panel F in room 206, Bottom ducts & conduits



Picture 10: D04 Federal Center SW – AFC Panel F in room 206, Panel schedule



Picture 11: D04 Federal Center SW – SWBD circuit D04-WGB-04 Panel F in room C203

REVISIONS		
DESCRIPTION	DATE	APVD

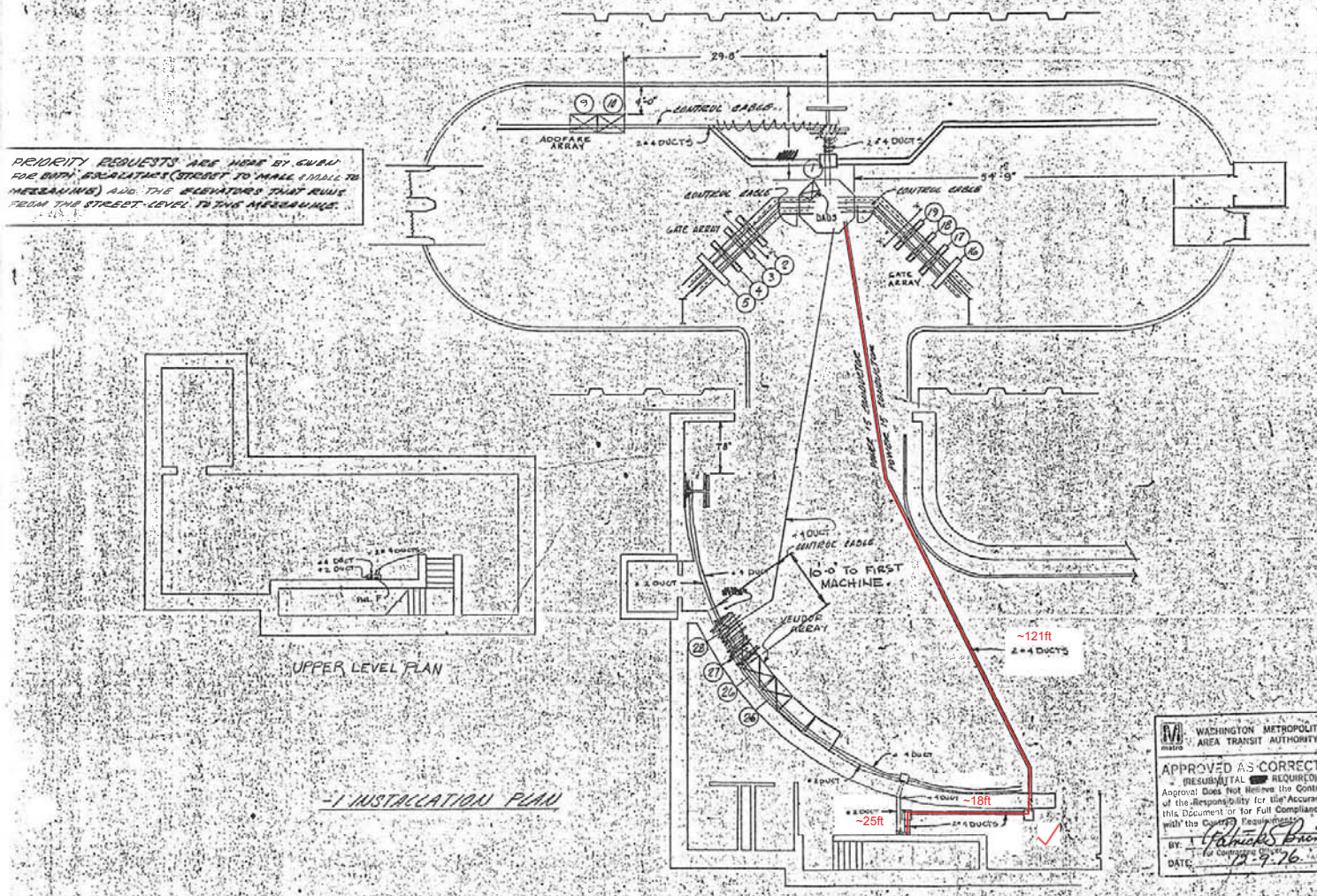
Pre-Inspection Field Verification 10/28/2014

NOTES:

1. ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC-WESTERN DATA BY [redacted]
2. [redacted] MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.
3. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE LETTER "X" DRAWN THRU THE MACHINE [redacted]
4. FOR AS BUILT CONDITIONS SEE SHEET E.
5. FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

PRIORITY REQUESTS ARE HERE BY GIVEN FOR BOTH ESCALATORS (STREET TO MALL & MALL TO MEZZANINE) AND THE ELEVATORS THAT RUNS FROM THE STREET LEVEL TO THE MEZZANINE.

VIEW 'A-A'



UPPER LEVEL PLAN

1 INSTALLATION PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED AS CORRECTED
(RESUBMITTAL [redacted] REQUIRED)
Approval Does Not Relieve the Contractor of the Responsibility for the Accuracy of this Document or for Full Compliance with the Contract Requirements
BY: Patricia S. Brine for Contracting Officer
DATE: 12-9-76

CR 2Z007A-116-75-0

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

CONTRACT NUMBER: CUBIC WESTERN DATA

FEDERAL CENTER SW STATION AFC MACHINE

92-038B6

Pre-Inspection Field Verification 10/28/2014

EXISTING PANEL "F"

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 200A MCB	PHASE: 3	LOCATION: MECH EQUIPMENT 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
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	1	A - -	2	-	-	0.0	SPACE
1&2 SPARE (KIOSK)	0.0	20	1	3	- B -	4	-	-	0.0	SPACE
SPACE	0.0	-	-	5	- - C	6	-	-	0.0	SPACE
SPACE	0.0	-	-	7	A - -	8	-	-	0.0	SPACE
SPACE	0.0	-	-	9	- B -	10	-	-	0.0	SPACE
SPACE	0.0	-	-	11	- - C	12	-	-	0.0	SPACE
SPACE	0.0	-	-	13	A - -	14	-	-	0.0	SPACE
SPACE	0.0	-	-	15	- B -	16	-	-	0.0	SPACE
SPACE	0.0	-	-	17	- - C	18	-	-	0.0	SPACE
SPARE	0.0	20	1	19	A - -	20	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	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
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	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	37	A - -	38	3	30	2.9	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. PROVIDE 2-NEW 20A, 1P CB IN EXISTING AVAILABLE SPACE, CONNECT NEW FEEDER TO THESE BREAKERS (NEW CB'S SHALL MATCH EXISTING CB'S).
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	59.8 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	8.5 KVA		
PHASE B:	7.3 KVA		
PHASE C:	8.1 KVA		

WGB (Rear)

D04-WGB-04 (Breaker #4)

NOTES: A. THE EXISTING PANEL "F" IS FED FROM 277/480V, 3Φ, 4W EXISTING SWBD ~~"WGB"~~ LOCATED IN AC SWBD BATTERY RM 303, ~~CIRCUIT #4~~ 250/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E10).

B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2-6 1/2"x 1 1/2" FLOOR DUCT W/2" C. (1-2" C. TO TRANSFORMER (WIRING >40%)(1-2" C. (WIRING >30%).
- 4-3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-1/2" WIRING.

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. MED 08-14 DATE
DRAWN C. MED 08-14 DATE
CHECKED B. KOLB 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

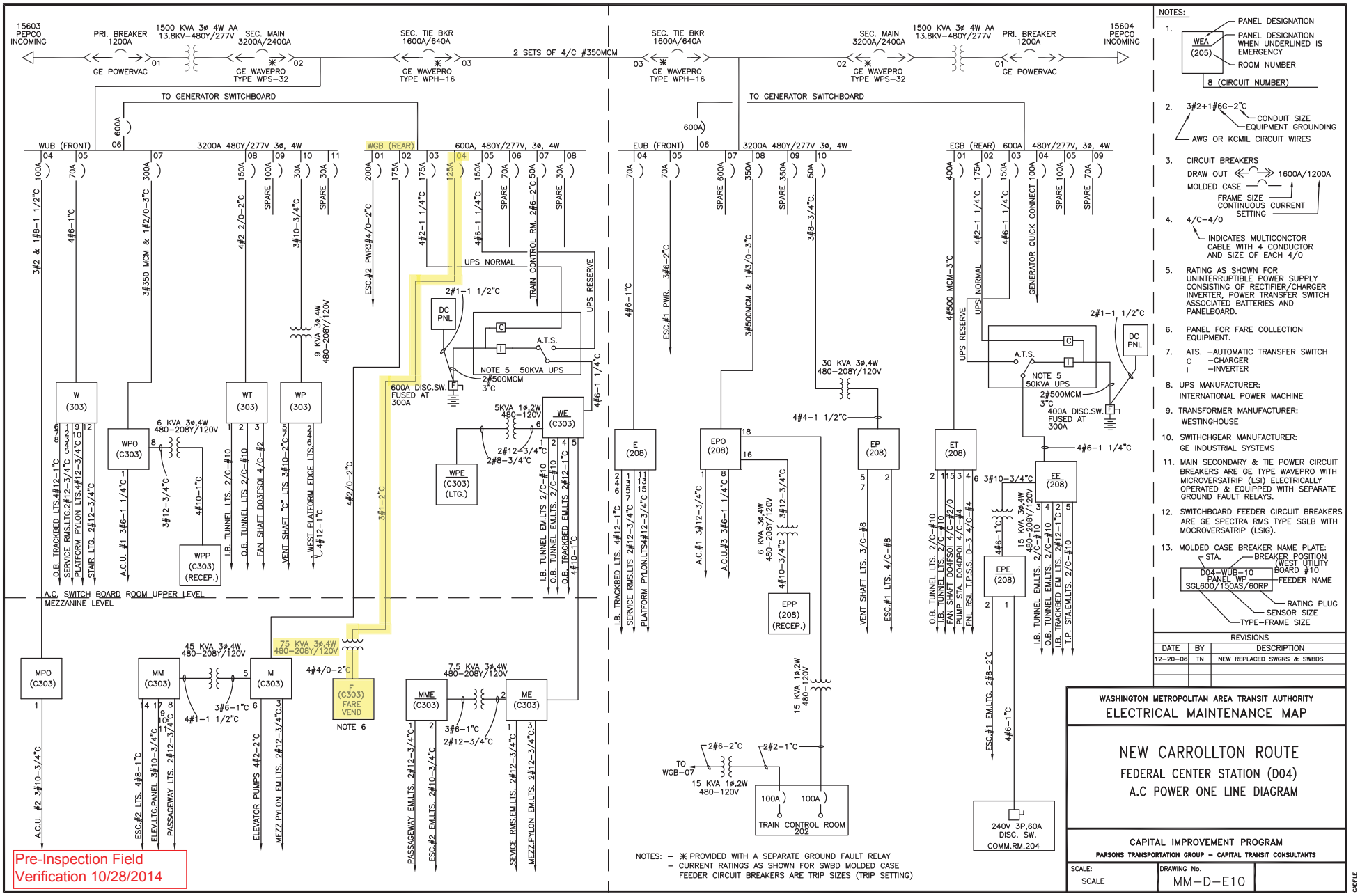
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
FEDERAL CENTER
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO. D04-E-102



NOTES:

1. WEA (205) 8 (CIRCUIT NUMBER)
   - PANEL DESIGNATION
   - PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
   - ROOM NUMBER
2. 3#2+1#6G–2°C
   - CONDUIT SIZE
   - EQUIPMENT GROUNDING
   - AWG OR KCMIL CIRCUIT WIRES
3. CIRCUIT BREAKERS
   - DRAW OUT
   - MOLDED CASE
   - FRAME SIZE CONTINUOUS CURRENT SETTING
   - 1600A/1200A
4. 4/C–4/0
   - INDICATES MULTICONCTOR CABLE WITH 4 CONDUCTOR 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 PANELBOARD.
6. PANEL FOR FARE COLLECTION EQUIPMENT.
7. ATS. –AUTOMATIC TRANSFER SWITCH
   C –CHARGER
   I –INVERTER
8. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE
9. TRANSFORMER MANUFACTURER: WESTINGHOUSE
10. SWITHCHGEAR MANUFACTURER: GE INDUSTRIAL SYSTEMS
11. MAIN SECONDARY & TIE POWER CIRCUIT BREAKERS ARE GE TYPE WAVEPRO WITH MICROVERSATRIP (LSI) ELECTRICALLY OPERATED & EQUIPPED WITH SEPARATE GROUND FAULT RELAYS.
12. SWITCHBOARD FEEDER CIRCUIT BREAKERS ARE GE SPECTRA RMS TYPE SGLB WITH MOCROVERSATRIP (LSIG).
13. MOLDED CASE BREAKER NAME PLATE: STA. BREAKER POSITION (WEST UTILITY BOARD #10) D04–WUB–10 PANEL WP FEEDER NAME SGL600/150AS/60RP RATING PLUG SENSOR SIZE TYPE–FRAME SIZE

REVISIONS		
DATE	BY	DESCRIPTION
12–20–06	TN	NEW REPLACED SWGRS & SWBDS

DESIGNED DESIGNER DATE | CHECKED CHECKER DATE
DRAWN DRAFTSMAN DATE | APPROVED APPROVER DATE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE
FEDERAL CENTER STATION (D04)
A.C POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE:	DRAWING No.	
SCALE	MM–D–E10	

CADFILE

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	**Station Name:** Capitol South - D05	**Mezzanine #:** 059	**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: WGB Source Breaker Name/Number: "D05-WGB-05" (Breaker #5) Electrical AFC Panel Name/Number: F	Rm 309 Rm 309 Rm C201	Room 309 (AC SWBD Battery Room) is located wayside of track 1.
☑	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 MPO and ME share raceway with AFC Panel F.
☑	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:		Access required to room C206 (Verizon room) to verify if handhole/J box is located within.
☑	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? NO Identified Conduit/Duct Transition to mezzanine level? YES		No handholes found at mezzanine floor. Transition from mezzanine level described as very difficult.

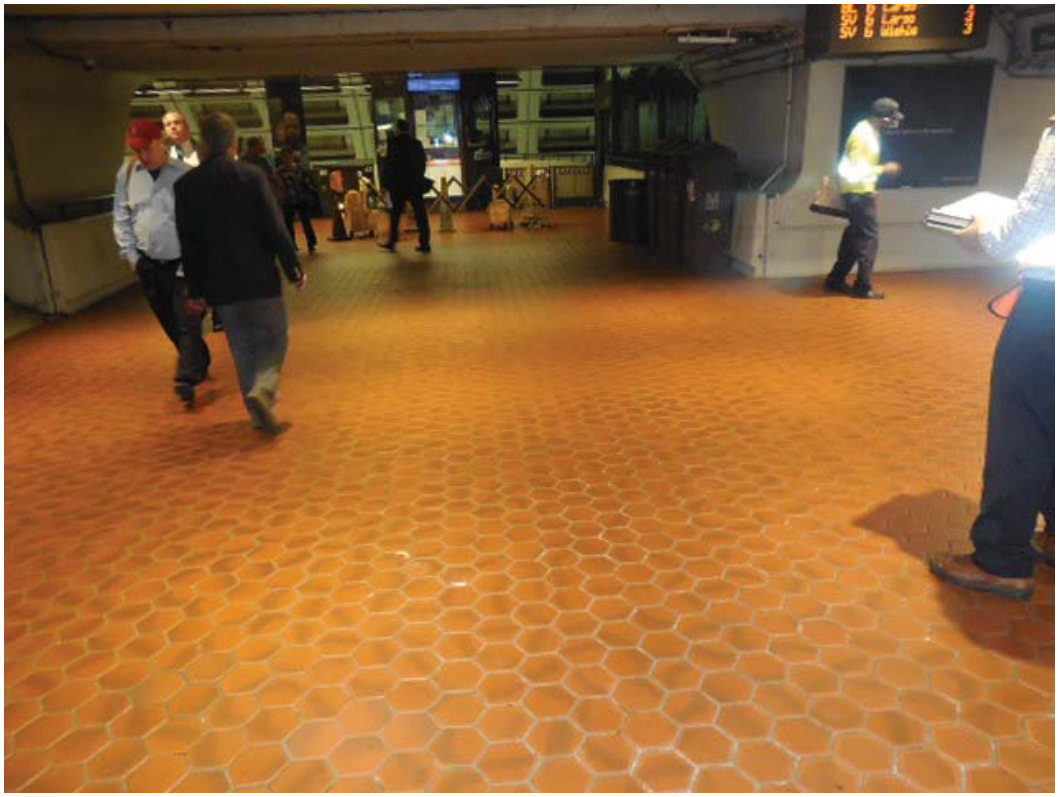
Emergency Power Verification

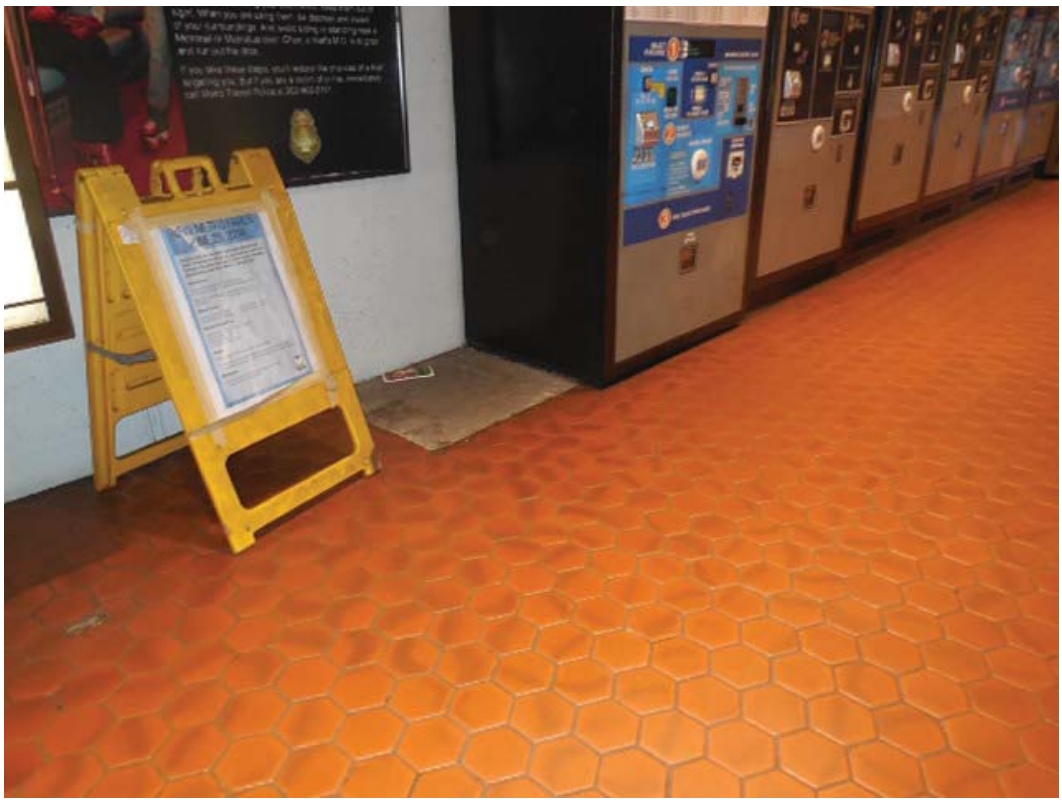
Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: MME Source Breaker Name/Number: Breaker #12,14 Panel Name/Number: EM Kiosk Panel	Rm C201 Rm C201 Kiosk	Panel EM (Kiosk Emergency Panel), Breaker #8 will de-energize emergency power to faregates. Power run from Kiosk to AFC Panel is 90'.

Notes and Discrepancies:

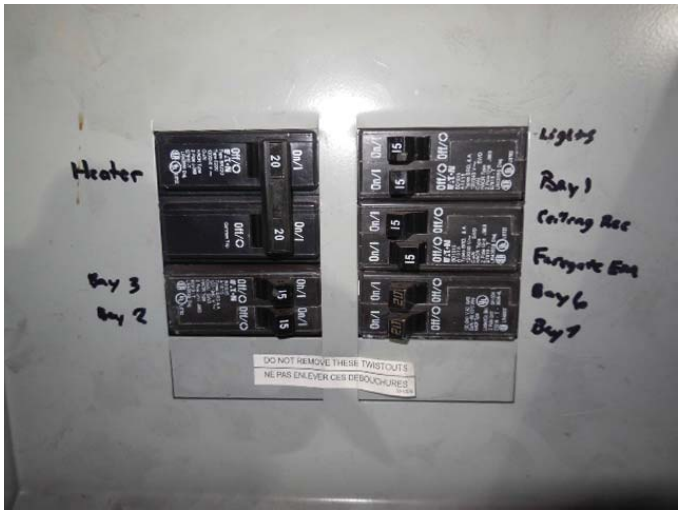
Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:		
Date:	10/28/2014	

Pictures 1&2: D05 Capitol South – No handholes in mezzanine

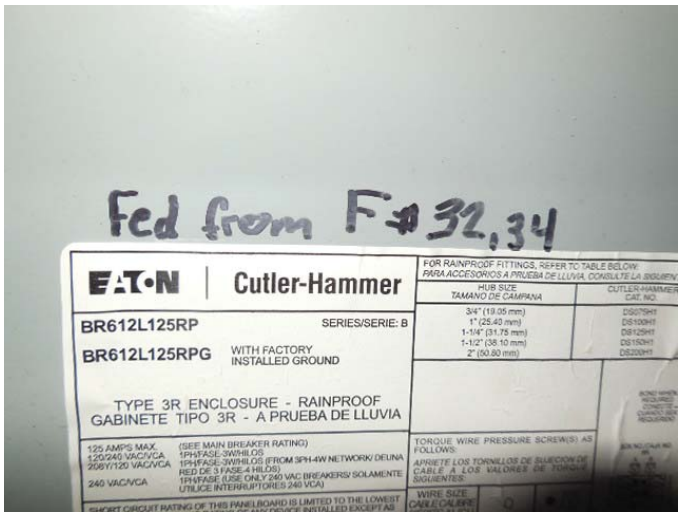




Pictures 3-5: D05 Capitol South – Emergency panel EM in Kiosk



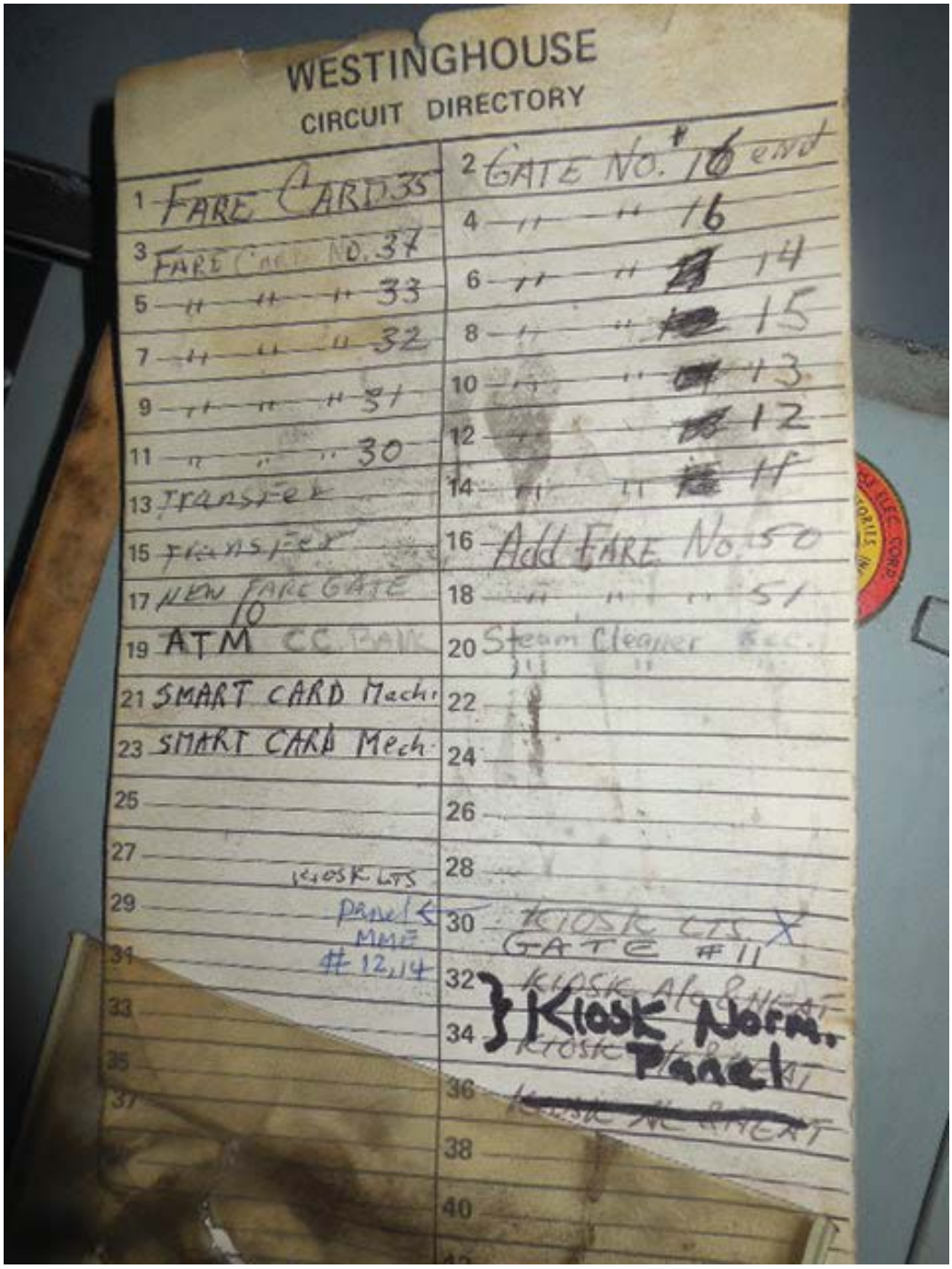
Pictures 6-8: D05 Capitol South – Emergency panel NM in Kiosk



Picture 9: D05 Capitol South – AFC Panel F in room C201

Picture 10: D05 Capitol South – AFC Panel F in room C201

Picture 11: D05 Capitol South – AFC Panel F in room C201, panel schedule

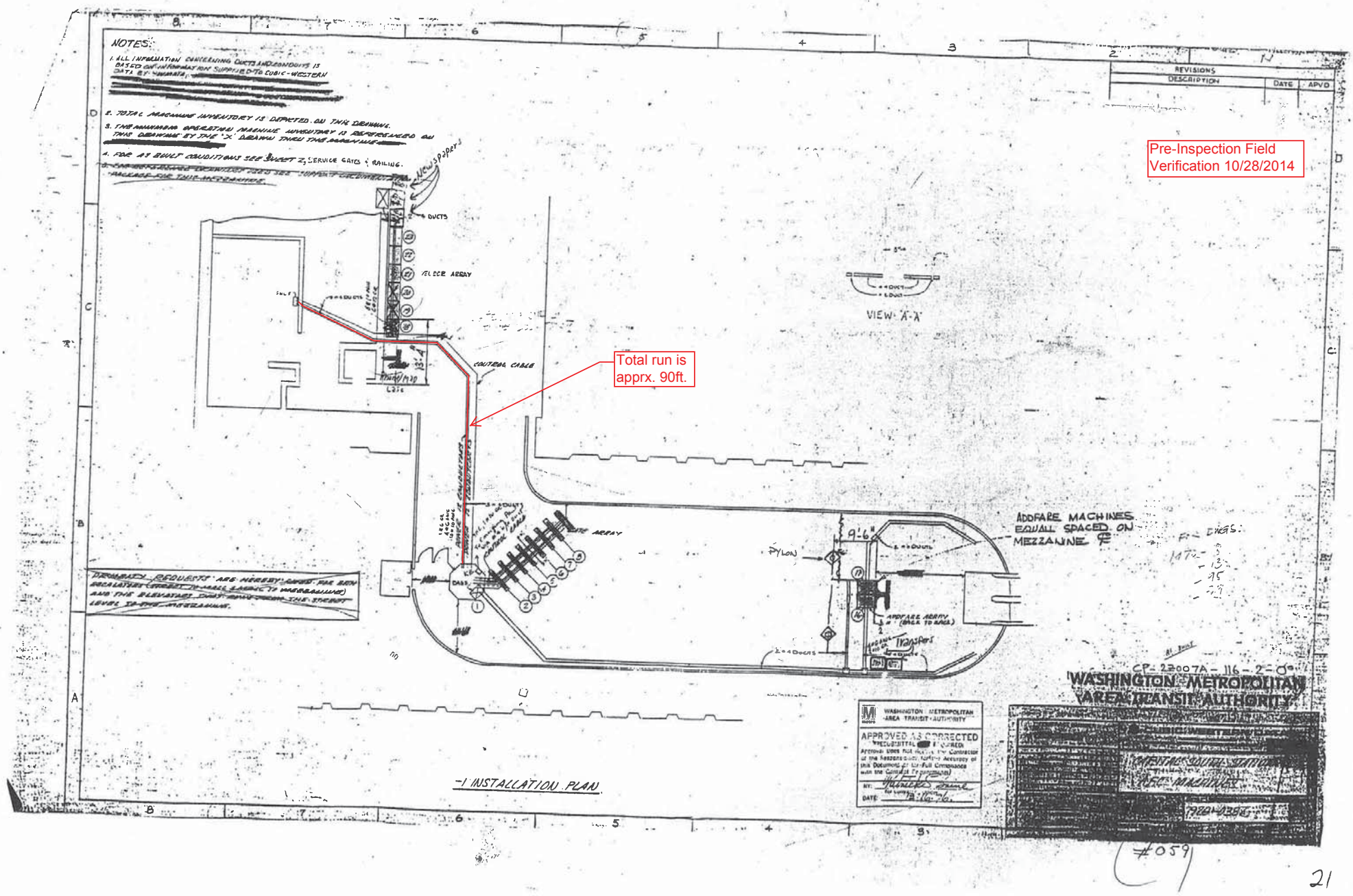


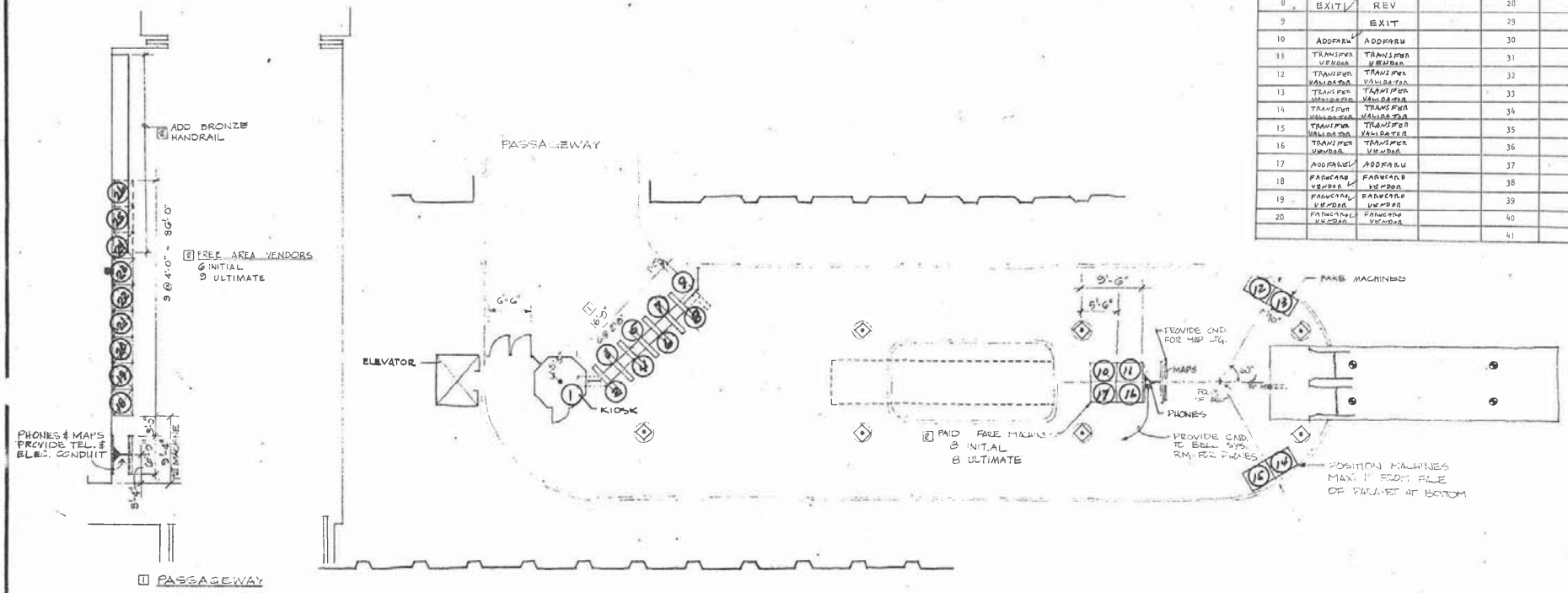
Picture 12: D05 Capitol South – Panel ME in room C201

Picture 13: D05 Capitol South – Panel MPO in room C201

Pictures 14&15: D05 Capitol South – Common trough in room C201

Picture 16: D05 Capitol South – SWBD circuit for D05-WGB-05 Panel F in room 309


NOTES:
1. ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC-WESTERN DATA BY WMATA.
2. TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.
3. THE MINIMUM OPERATING MACHINE INVENTORY IS REPRESENTED ON THIS DRAWING BY THE "X" DRAWN THRU THE MACHINE.
4. FOR AS BUILT CONDITIONS SEE SHEET 2, SERVICE GATES & RAILING.
REVISIONS
DESCRIPTION
DATE
APVD
Pre-Inspection Field Verification 10/28/2014
Total run is apprx. 90ft.
VIEW "A-A"
ADDFARE MACHINES EQUALLY SPACED ON MEZZANINE
PYLON
ADDFARE AGENT (BACK TO BACK)
Transfer
DUCTS
CONTROL CABLE
-1 INSTALLATION PLAN
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
APPROVED AS CORRECTED
CP-22007A-116-2-0
#059
21



POSITION NUMBER	EQUIPMENT IDENTIFICATION INITIAL	ULTIMATE	MIN. OPNL.	POSITION NUMBER	EQUIPMENT IDENTIFICATION INITIAL	ULTIMATE	MIN. OPNL.
1	DADS	DADS	DADS	21	FARECARD VENDOR	FARECARD VENDOR	
2	BUFFER	BUFFER		22	FARECARD VENDOR	FARECARD VENDOR	
3	REV	REV		23	FARECARD VENDOR	FARECARD VENDOR	
4	REV	REV		24		FARECARD VENDOR	
5	REV	REV		25		FARECARD VENDOR	
6	REV	REV		26		FARECARD VENDOR	
7	REV	REV		27			
8	EXIT	REV		28			
9		EXIT		29			
10	ADDFARE	ADDFARE		30			
11	TRANSFER VENDOR	TRANSFER VENDOR		31			
12	TRANSFER VALIDATOR	TRANSFER VALIDATOR		32			
13	TRANSFER VALIDATOR	TRANSFER VALIDATOR		33			
14	TRANSFER VALIDATOR	TRANSFER VALIDATOR		34			
15	TRANSFER VALIDATOR	TRANSFER VALIDATOR		35			
16	TRANSFER VENDOR	TRANSFER VENDOR		36			
17	ADDFARE	ADDFARE		37			
18	FARECARD VENDOR	FARECARD VENDOR		38			
19	FARECARD VENDOR	FARECARD VENDOR		39			
20	FARECARD VENDOR	FARECARD VENDOR		40			
				41			

SK-631

CAPITOL SOUTH

Pre-Inspection Field Verification 10/28/2014

RECEIVED
NOV 30 1978
BECHTEL SYSTEMWIDE

DESIGNED	H.W.A.	DATE
DRAWN	JJK	2-12-73 DATE
CHECKED		2-23-73 DATE
APPROVED		2-23-73 DATE

REFERENCE DRAWINGS NUMBER	DESCRIPTION

REVISIONS DATE	BY	DESCRIPTION
		ADD FARE GATE DIMENSIONS &
7-1-74	JT	ADD FARE AREA VENDING UNIT
7-1-74	JT	REV. AFC EQUIP. QUANTITIES, ADD HANDRAIL

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA APPROVED — DIRECTOR OF ARCHITECTURE

APPROVED — CHIEF OF ENGINEERING AND OPERATIONS

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED 2/23/73

D4c CAPITOL SOUTH
FARE MACHINES, PHONES & MAPS

SCALE 1/8" - 1'-0"

DRAWING NO. SK-631

59

Pre-Inspection Field Verification 10/28/2014

EXISTING PANEL "F"

AMPERES: 100	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 100A MLO	PHASE: 3	LOCATION: MECH. EQUIPMENT ROOM C201	
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	NEW KIOSK RECEPT. (IT & NEPP) 1
SPARE	0.0	20	1	25	A - -	26	1	20	0.0	SPARE (KIOSK) 1&2
SPARE	0.0	20	1	27	- B -	28	1	20	0.0	SPARE
SPACE	0.0	-	-	29	- - C	30	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	31	A - -	32	2	60	2.9	EXIST. KIOSK LOAD CENTER 'KES'
SPACE	0.0	-	-	33	- B -	34	-	-	2.5	
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	10.4 x 50%		5.2 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	2.0 x 125%		2.5 KVA
AC	3.0 x 100%		3.0 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	**25.4 KVA**	**TOTAL DEMAND KVA**	**20.7 KVA**
		TOTAL DEMAND AMPS	**57.6 AMPS**

CONNECTED LOAD PHASE SUMMARY

PHASE A	9.3 KVA
PHASE B	8.9 KVA
PHASE C	7.2 KVA

D05-WGB-05 (Breaker #5)

NOTES:
A. EXISTING PANEL "F" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD. "WGB" LOCATE IN AC SWBD BATTERY ROOM 309, ~~CIRCUIT #5~~ 250A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E12A).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
- 1-3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 6-1 1/2" C. (2-EMPTY CONDUIT, 1-WIRING FILL >20%, 3-WIRING FILL >40%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NED 05-14 DATE
DRAWN C. NED 05-14 DATE
CHECKED B. IDLIB 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 _____

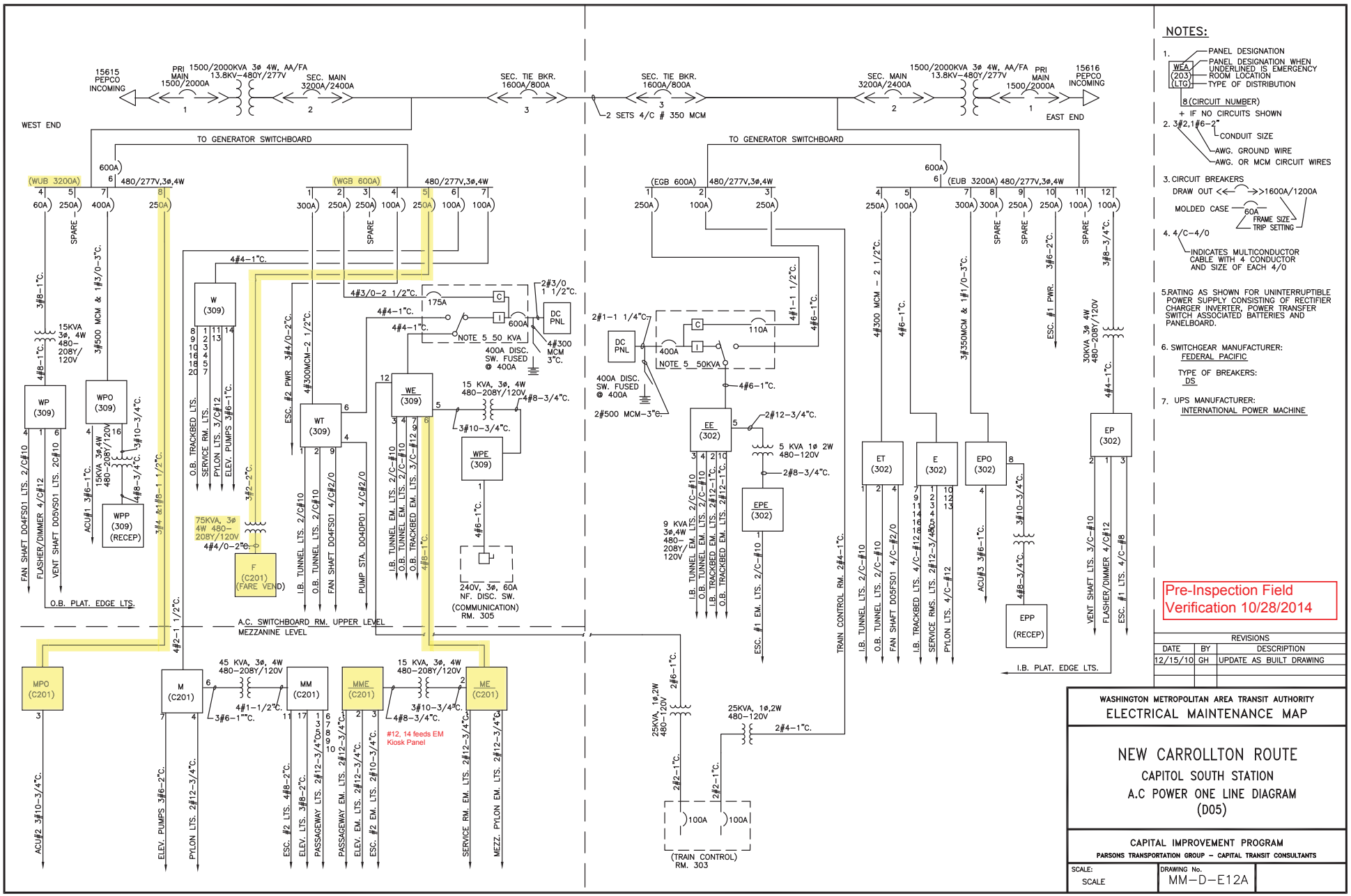
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
CAPITOL SOUTH
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO. D05-E-102



NOTES:

1. PANEL DESIGNATION
   WEA — PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
   (203) — ROOM LOCATION
   (LTG) — TYPE OF DISTRIBUTION
   8 (CIRCUIT NUMBER)
   + IF NO CIRCUITS SHOWN
2. 3#2,1#6–2"
   CONDUIT SIZE
   AWG. GROUND WIRE
   AWG. OR MCM CIRCUIT WIRES
3. CIRCUIT BREAKERS
   DRAW OUT <<—>> 1600A/1200A
   MOLDED CASE — 60A FRAME SIZE — TRIP SETTING
4. 4/C–4/0
   INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR 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 PANELBOARD.
6. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
   TYPE OF BREAKERS: DS
7. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE

Pre-Inspection Field Verification 10/28/2014

REVISIONS		
DATE	BY	DESCRIPTION
12/15/10	GH	UPDATE AS BUILT DRAWING

DESIGNED G HOLMES	12/13/2010 DATE	
DRAWN G HOLMES	12/13/2010 DATE	
CHECKED B GHORBANI	DATE 12/16/2010 DATE	
APPROVED A ROBINSON	DATE 12/17/2010 DATE	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE

CAPITOL SOUTH STATION

A.C POWER ONE LINE DIAGRAM

(D05)

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE:	DRAWING No.	
SCALE	MM–D–E12A	

CADFILE

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/04/2014	**Station Name:** Eastern Market - D06	**Mezzanine #:** 060	**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: MPB Source Breaker Name/Number: Breaker #23 Electrical AFC Panel Name/Number: Panel F	Rm C206 Rm C206 Rm C206	As-built shows Panel MPB feeds AFC Panel F via circuit #19. In field, circuit #23 was verified as feeding AFC Panel.
☑	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?		All conduit/ducts on mezzanine level.

Emergency Power Verification

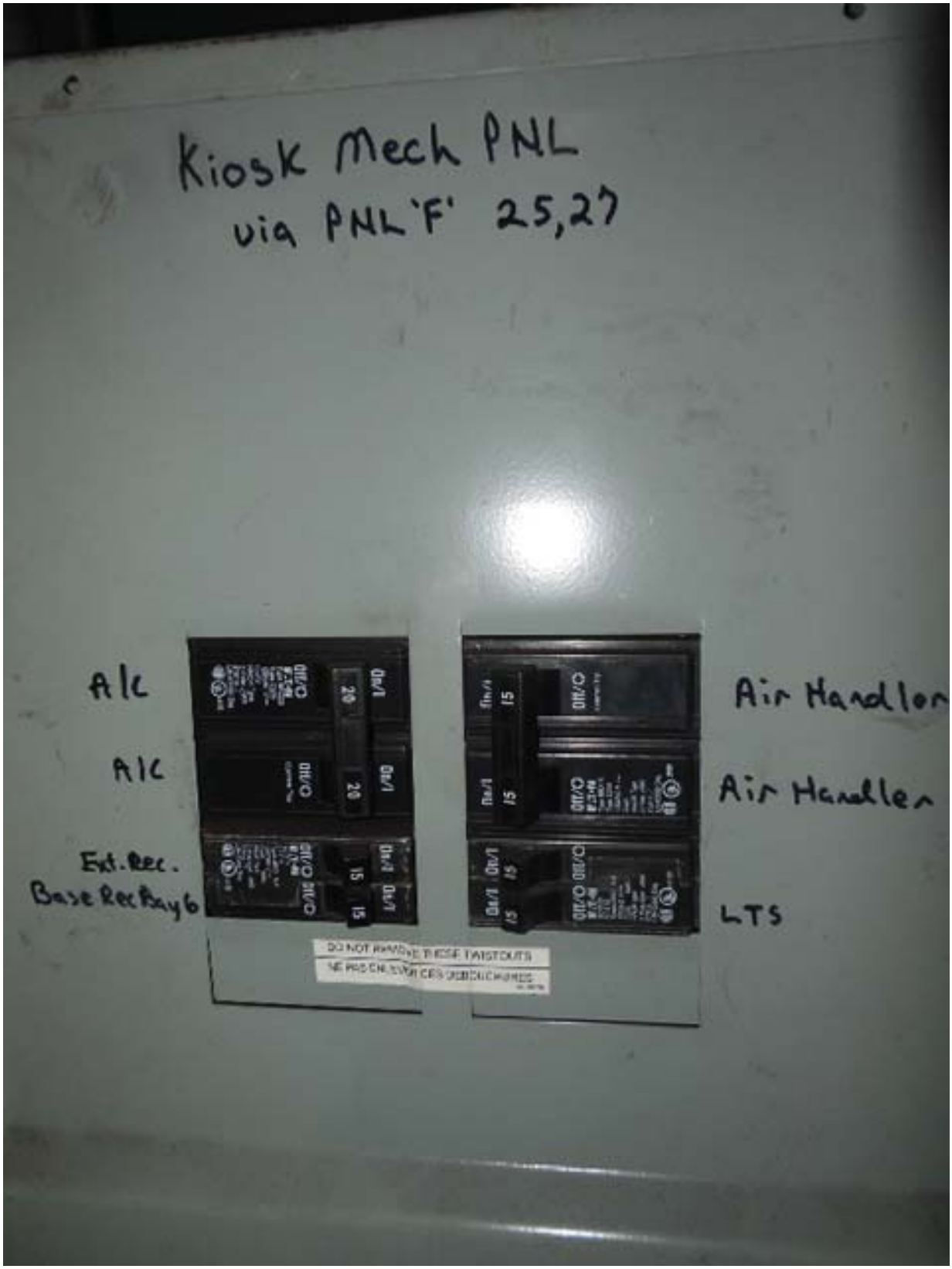
Check	Task	Equipment	Room ID	Notes
☑	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
☑	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: MEP Source Breaker Name/Number: Breaker #9 & #11 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	Panel EMG located in Kiosk, Breaker #9 de-energizes emergency power to faregates.

Notes and Discrepancies:

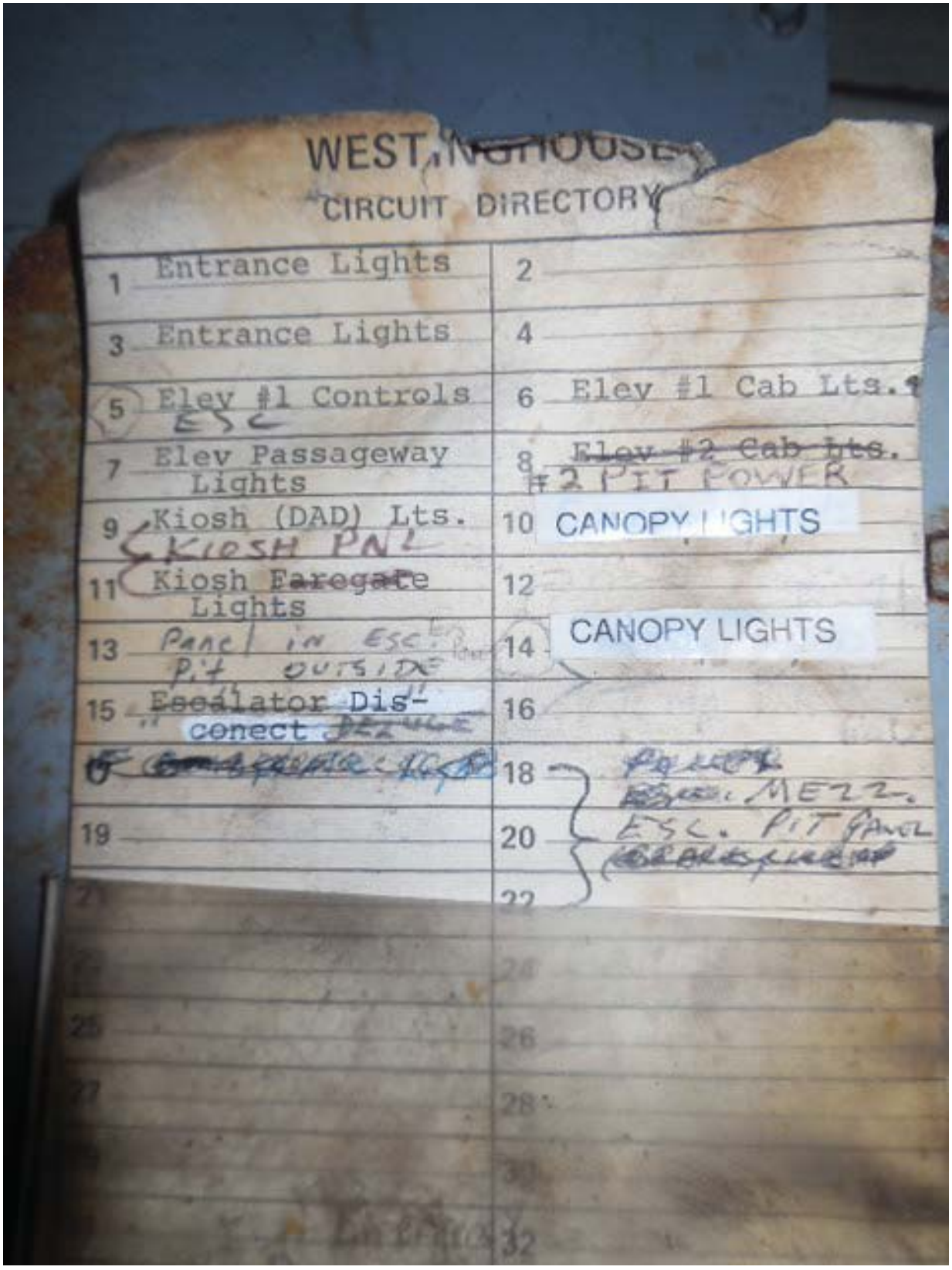
Sign Off	**GFP Representative**	**WMATA PRGM**
Name:	Tino Sahoo	
Signature:	Tarmeya Sahoo	
Date:	11/04/2014	

Picture 1: D06 Eastern Market – Manhole & handholes in Service Room

Picture 2: D06 Eastern Market – Emergency Panel in Kiosk

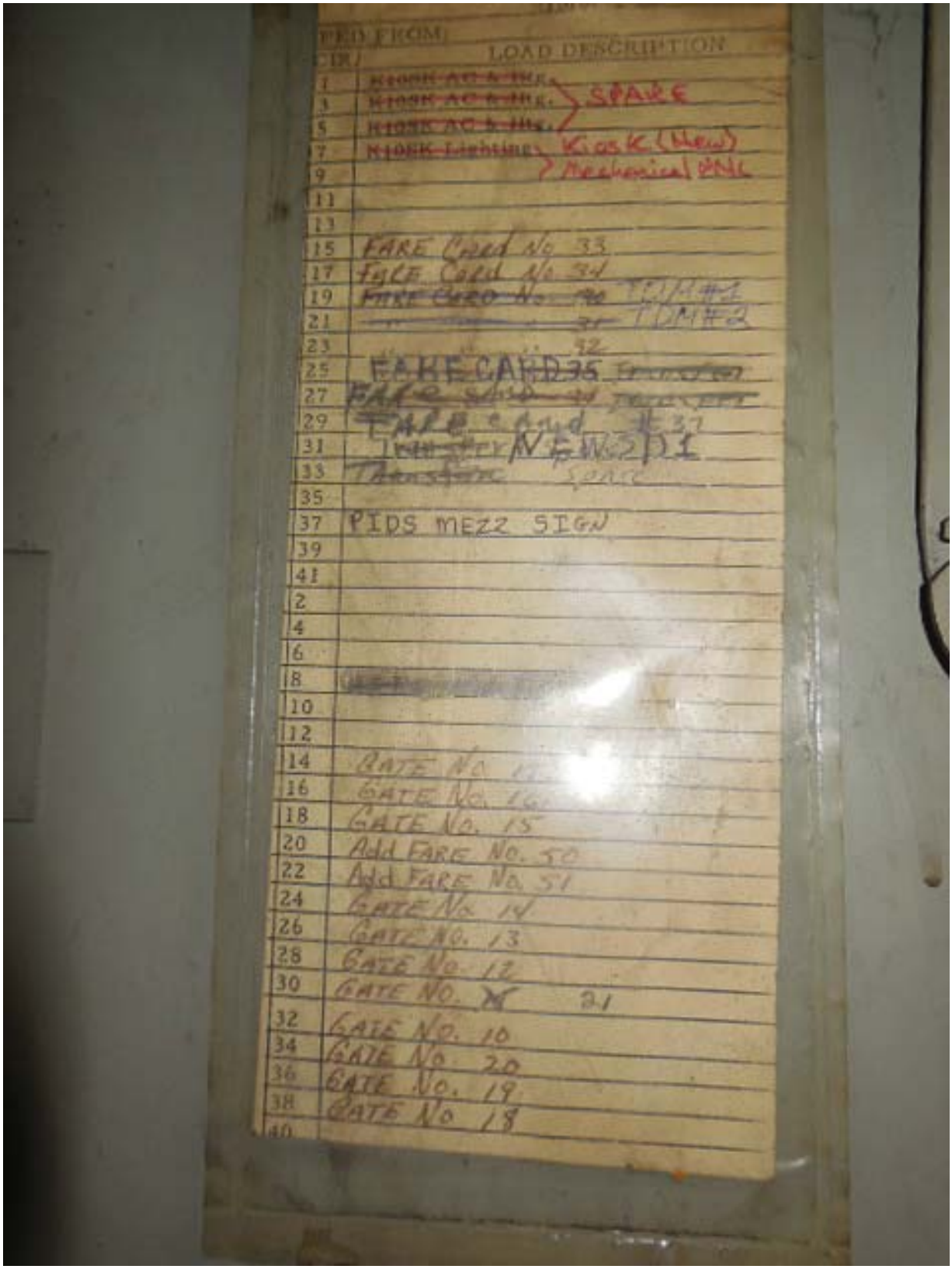


Picture 3: D06 Eastern Market – Emergency Panel in Kiosk – Panel schedule



Picture 4: D06 Eastern Market – Emergency Panel in Kiosk

Picture 5: D06 Eastern Market – Emergency Panel in Kiosk – Panel schedule

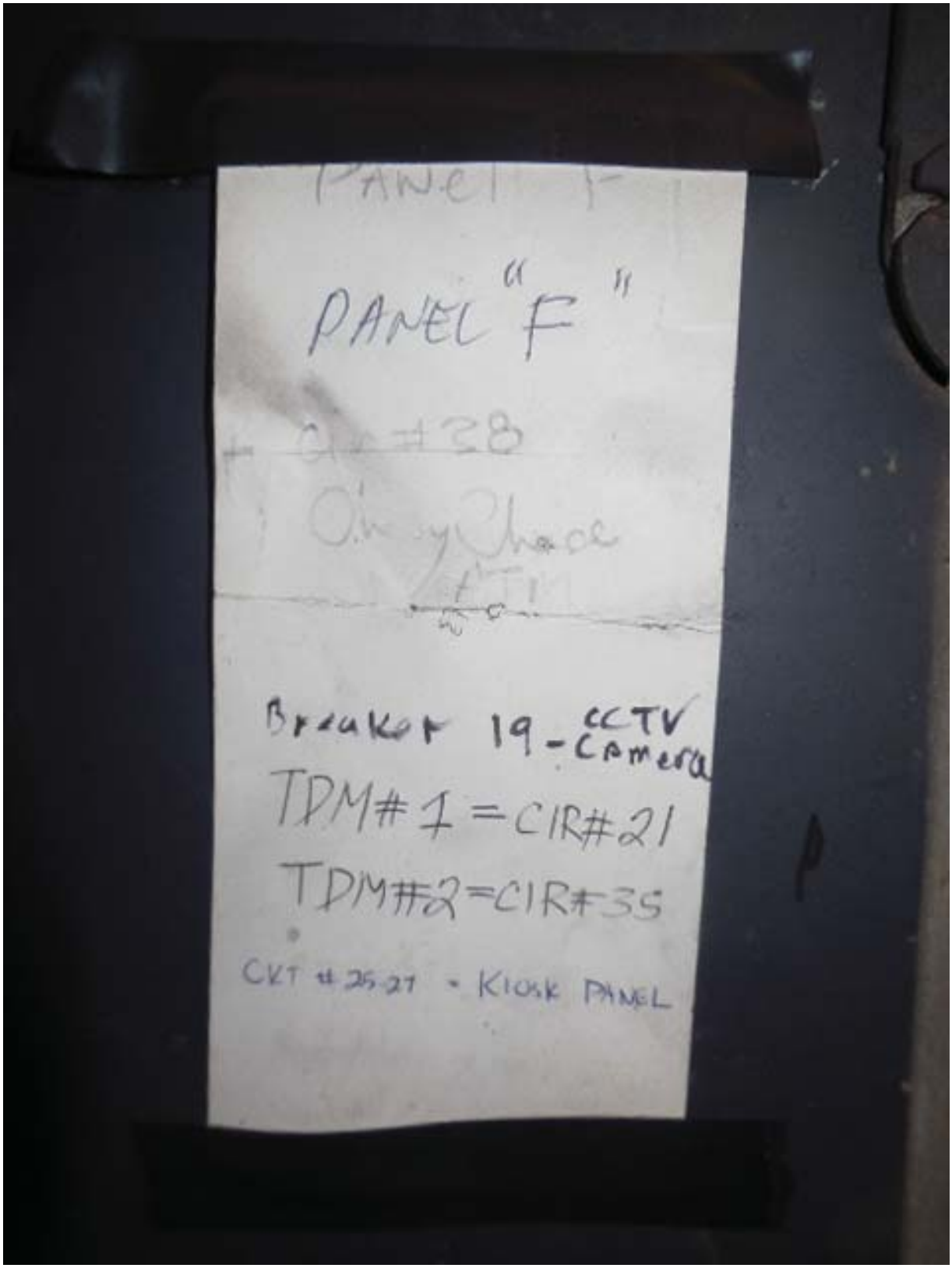


Picture 6: D06 Eastern Market – AFC Panel F in Room C206

Picture 7: D06 Eastern Market – AFC Panel F in Room C206

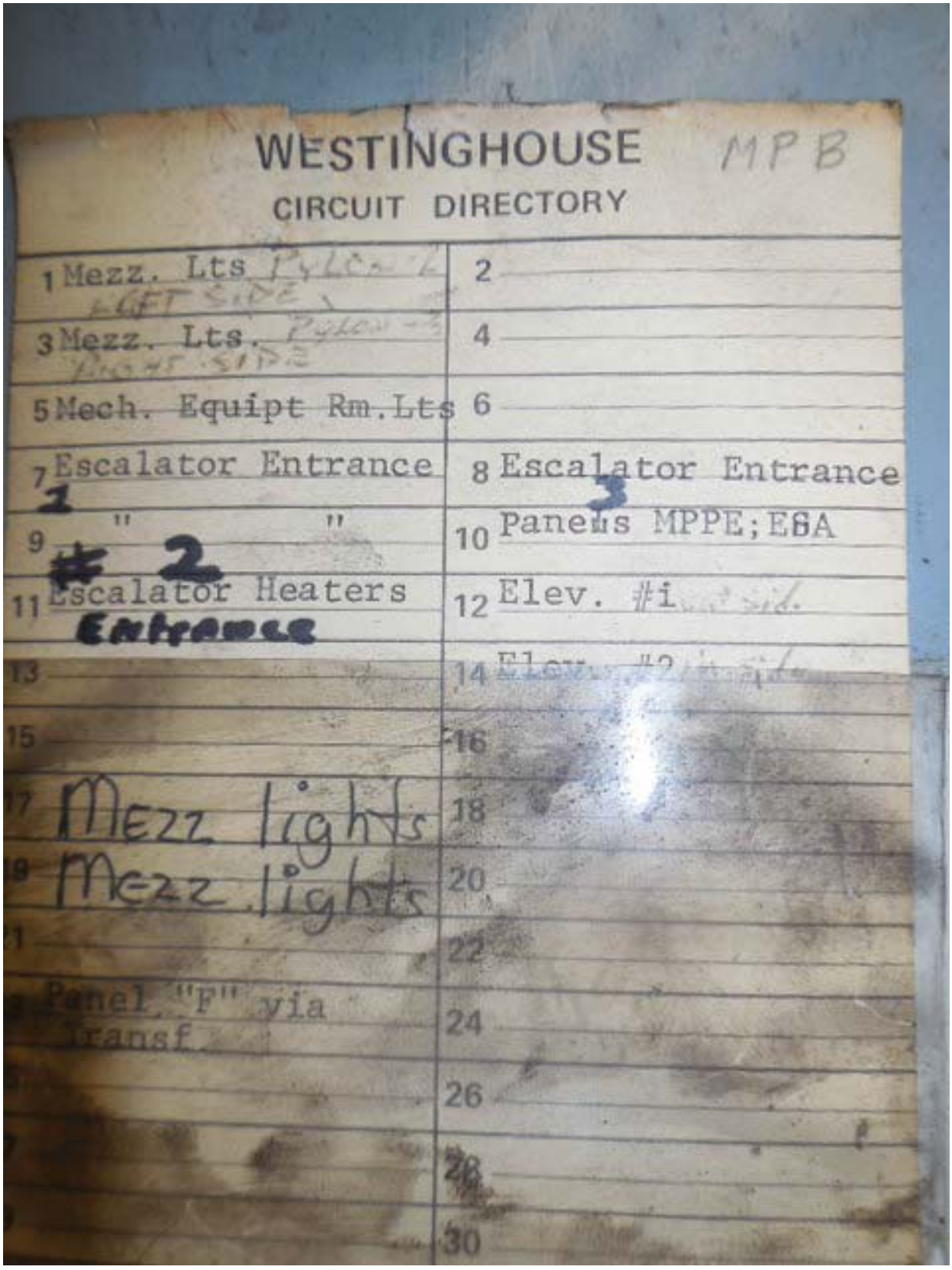
Picture 8: D06 Eastern Market – AFC Panel F in Room C206 – Ducts below Panel

Picture 9: D06 Eastern Market – AFC Panel F in Room C206 – Panel schedule



Picture 10: D06 Eastern Market – Panel MPB in Room C206

Picture 11: D06 Eastern Market – Panel MPB in Room C206 – Panel schedule



Picture 12: D06 Eastern Market – Panel MEP in Room C206

Picture 13: D06 Eastern Market – Panel MEP in Room C206 – Circuits 9 & 11

8	7	6	5	4	3	2	1

REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REVISION A	7-13-77	

NOTES:

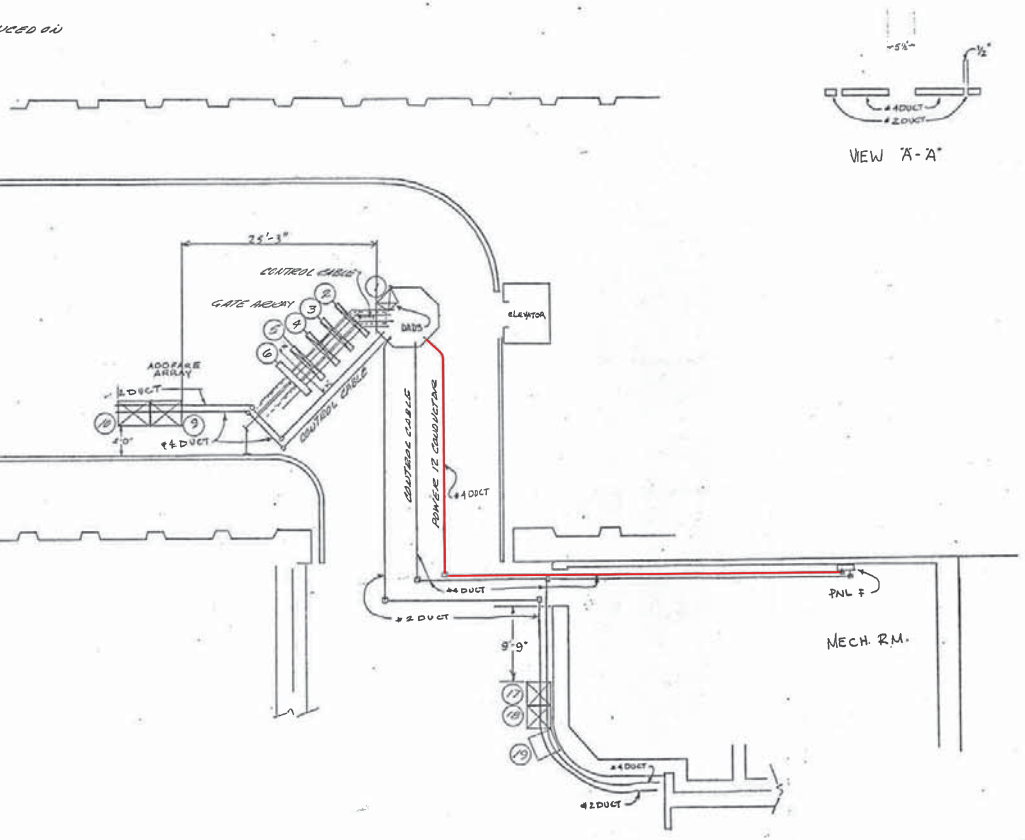
ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC-WESTERN DATA BY WMATA

TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.

THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE "X" DRAWN THRU THE MACHINE

FOR AS BUILT CONDITIONS SEE SHEET 2.

FOR REFERENCE DRAWINGS SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.



VIEW "A-A"

-1 INSTALLATION PLAN
(AS BUILT CONDITION)

Pre-Inspection Field Verification 11/04/2014

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

CONTRACT NUMBER	CUBIC WESTERN DATA
2-7007A	EASTERN MARKET STATION AFC MACHINES
DESIGN ACTIVITY APPROVAL: Myles P. Powell 7-21-76 APPROVED	SIZE D
	DRAWING NUMBER 926-0387
	REV 60
	SHEET 1 OF 1

Pre-Inspection Field Verification 11/04/2014

EXISTING PANEL "F" ✓

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE	
MAINS: 225A 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	
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	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	NEW KIOSK RECEPT. (IT & NEPP)	1 ✓
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	SPARE (KIOSK)	1&2 ✓
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.0	SPARE	
SPARE	0.0	20	1	23	- - C	24	1	20	0.0	SPARE	
EXIST. KIOSK LOAD CENTER "KES"	2.9	50	2	25	A - -	26	1	20	0.0	SPARE	
	2.5	-	-	27	- B -	28	1	20	0.0	SPARE	
SPACE	0.0	-	-	29	- - C	30	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	31	A - -	32	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	33	- B -	34	1	20	0.0	SPARE	
EXISTING VENDOR	0.0	20	1	35	- - C	36	1	20	0.0	SPARE	
SPARE	0.0	20	1	37	A - -	38	1	20	0.8	EXISTING VENDOR	
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 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	9.6 x 50%		4.8 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	2.0 x 125%		2.5 KVA
AC	3.0 x 100%		3.0 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	24.6 KVA	TOTAL DEMAND KVA	20.3 KVA
		TOTAL DEMAND AMPS	56.4 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	9.3 KVA
PHASE B:	9.7 KVA
PHASE C:	5.6 KVA

NOTES:
A. EXISTING PANEL "F" ✓ IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "MPB" LOCATE IN MECH. EQUIPMENT ROOM C206, CIRCUIT #23–100A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM–D–E14).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
- 2– 6 1/2"x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
- 1–3" C. TO TRANSFORMER (WIRING FILL >40%).

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

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. MDD 08-14 DATE
DRAWN C. MDD 08-14 DATE
CHECKED S. CHUB 08-14 DATE
APPROVED N/A DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

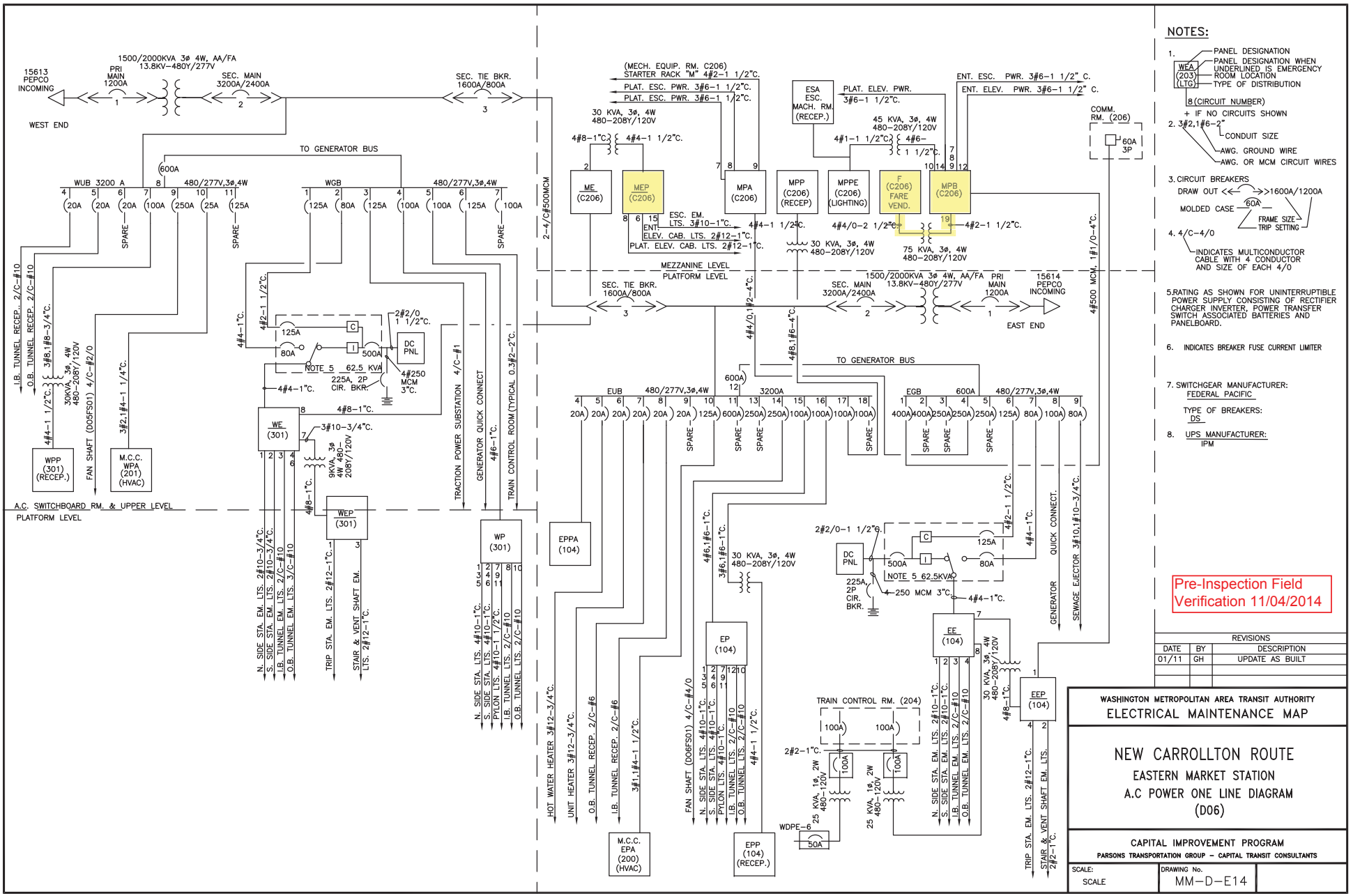
DATE	BY	DESCRIPTION

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
EASTERN MARKET
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO. D06-E-102



NOTES:

1. PANEL DESIGNATION
   WEA (203) (LTG) — PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY; ROOM LOCATION; TYPE OF DISTRIBUTION
   8 (CIRCUIT NUMBER)
   + IF NO CIRCUITS SHOWN
2. 3#2, 1#6–2" — CONDUIT SIZE; AWG. GROUND WIRE; AWG. OR MCM CIRCUIT WIRES
3. CIRCUIT BREAKERS
   DRAW OUT ↔ 1600A/1200A
   MOLDED CASE 60A — FRAME SIZE / TRIP SETTING
4. 4/C–4/0 — INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR 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 PANELBOARD.
6. INDICATES BREAKER FUSE CURRENT LIMITER
7. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
   TYPE OF BREAKERS: DS
8. UPS MANUFACTURER: IPM

Pre-Inspection Field Verification 11/04/2014

REVISIONS		
DATE	BY	DESCRIPTION
01/11	GH	UPDATE AS BUILT

DESIGNED	G HOLMES	12/15/2010	01/05/2011
DRAWN	G HOLMES	12/17/2010	01/07/2011
		DATE	DATE
CHECKED	B GHORBAN	APPROVED	A ROBINSON

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE

EASTERN MARKET STATION

A.C POWER ONE LINE DIAGRAM

(D06)

CAPITAL IMPROVEMENT PROGRAM

PARSONS TRANSPORTATION GROUP – CAPITAL TRANSIT CONSULTANTS

SCALE:	DRAWING No.	
SCALE	MM–D–E14	

CADFILE