


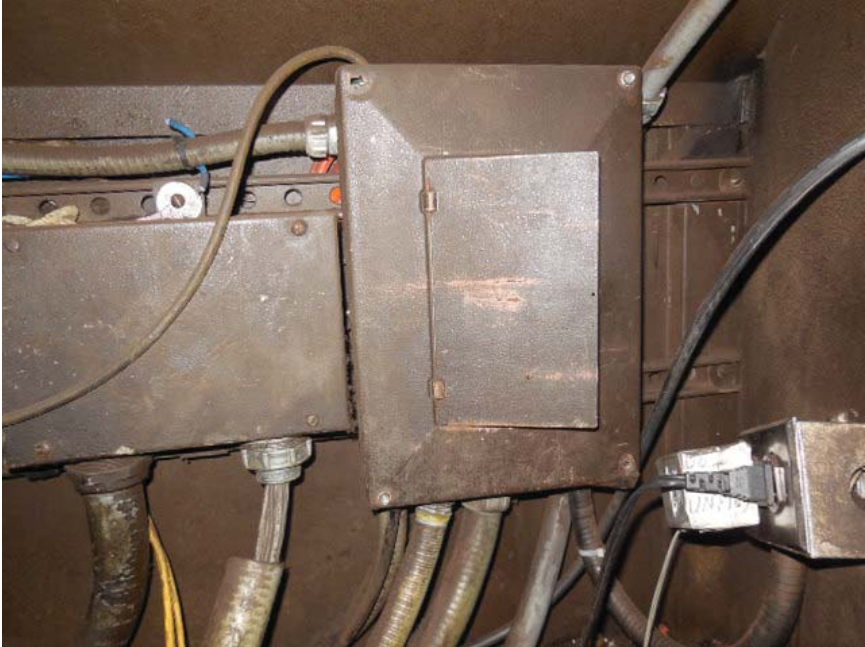
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 01/15/2015		Station Name: Courthouse - K01		Mezzanine #: 096		Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes			
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: SWBD Essential Source Breaker Name/Number: "Transformer T4 (For Panel EF)" Electrical AFC Panel Name/Number: EF	Rm 305 Rm 305 Rm 205	Room 305 is AC SWBD battery room.			
<input checked="" type="checkbox"/>	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					
<input checked="" type="checkbox"/>	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					
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level.			
Emergency Power Verification							
Check	Task	Equipment	Room ID	Notes			
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Source Breaker Name/Number: Panel Name/Number:					
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		1/15/2015					

Picture 1: K01 Court House – Manhole & handhole in mezzanine



Pictures 2&3: K01 Court House – Emergency Panel KE in Kiosk



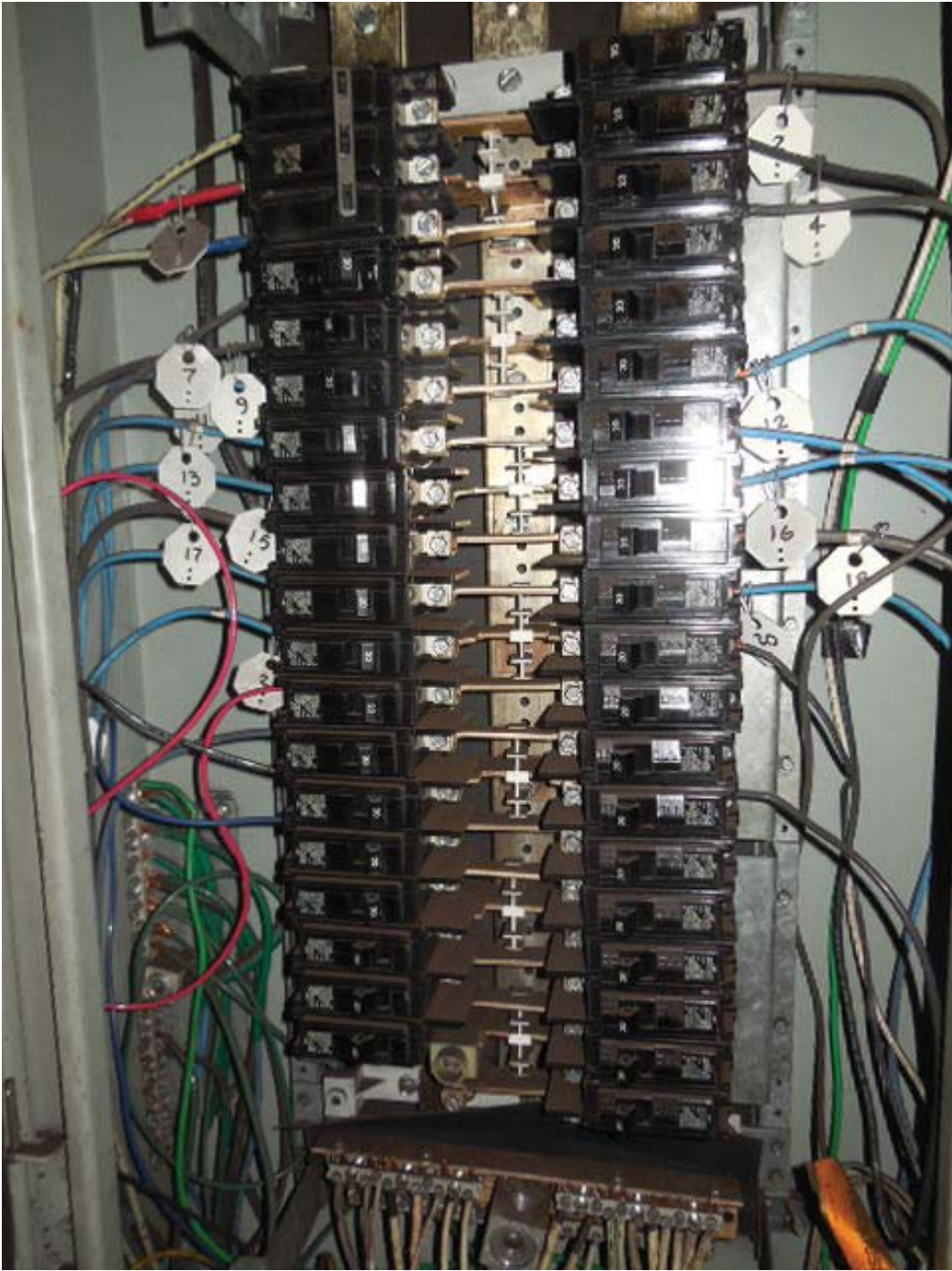
Picture 4: K01 Court House – Transformer T4 breaker (NP-7) for Panel EF in room 305



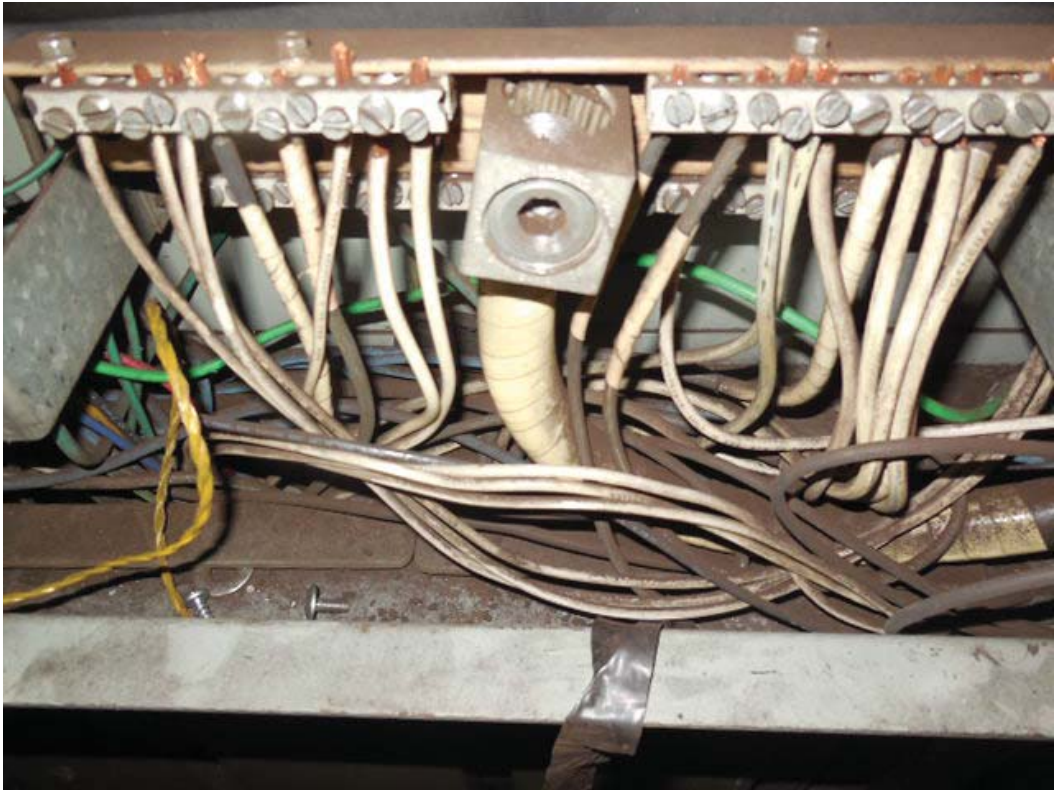
Picture 5: K01 Court House – AFC Panel EF in room 205



Picture 6: K01 Court House – AFC Panel EF in room 205



Picture 7: K01 Court House – AFC Panel EF in room 205



Picture 8: K01 Court House – AFC Panel EF in room 205, Panel schedule

CKT
 #4 - Free Area Maps (Passageway)
 #2 - PAID Area Maps (Museum)

(EF)

Fare gate
 #11 19 ~~20~~ 20 - 21
 #12 19 18 - 19
 #13 18 Smart
 #14 11 Smart
 #15 11 Smart
 #16 10

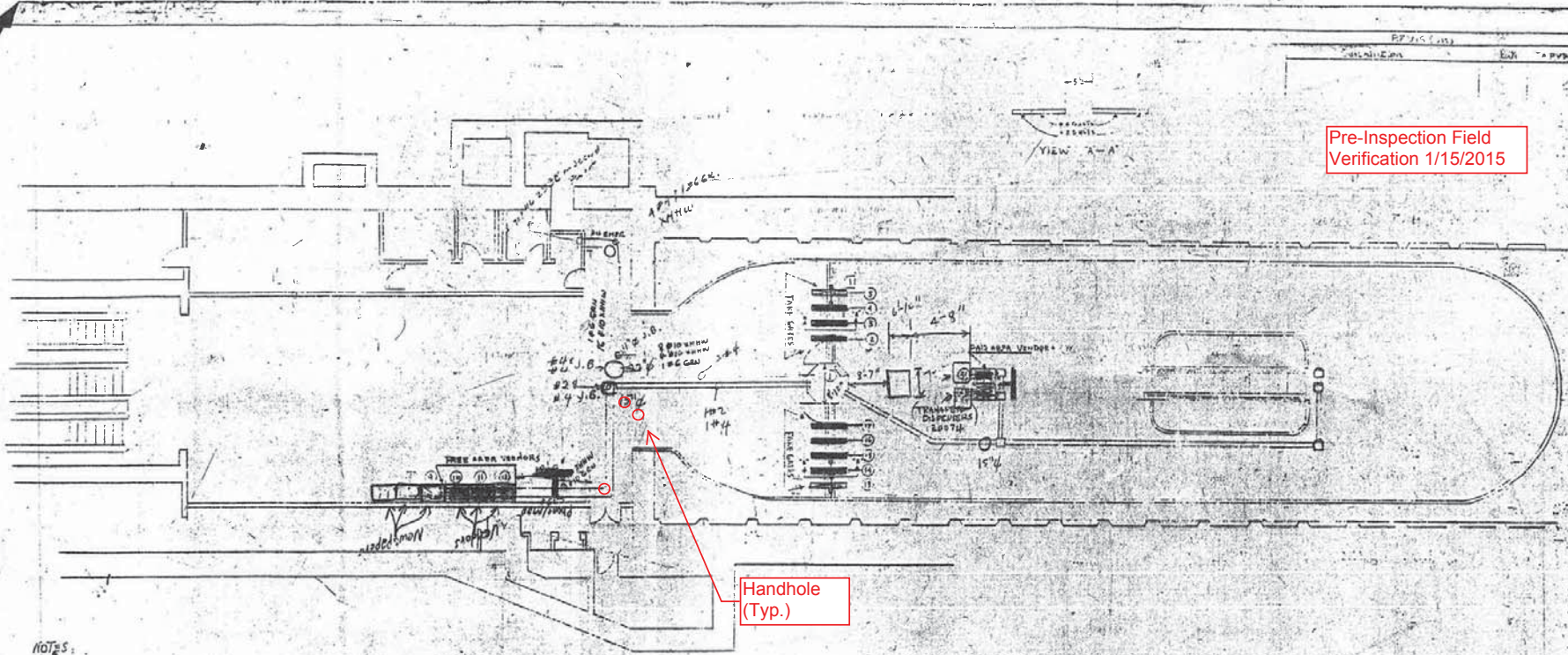
add fare
 #17 36 51
 #18 29 50

Fare Card
 #19 0
 #20 31
 #21 32
 #22 33 F.C.

#31 } TRANSFER DISP. HAVE BEEN
 #33 } TERMINATED AS OF 06-15-09 PERMANENTLY
 #23 NEW AFC UNDER #34

CKT #25 - 20 ENTRY
 CKT #7 - Clock-Kiosk
 CKT #27-29 TDM SMART TRIP
 #25 PIDS

Pre-Inspection Field
Verification 1/15/2015



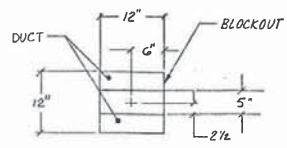
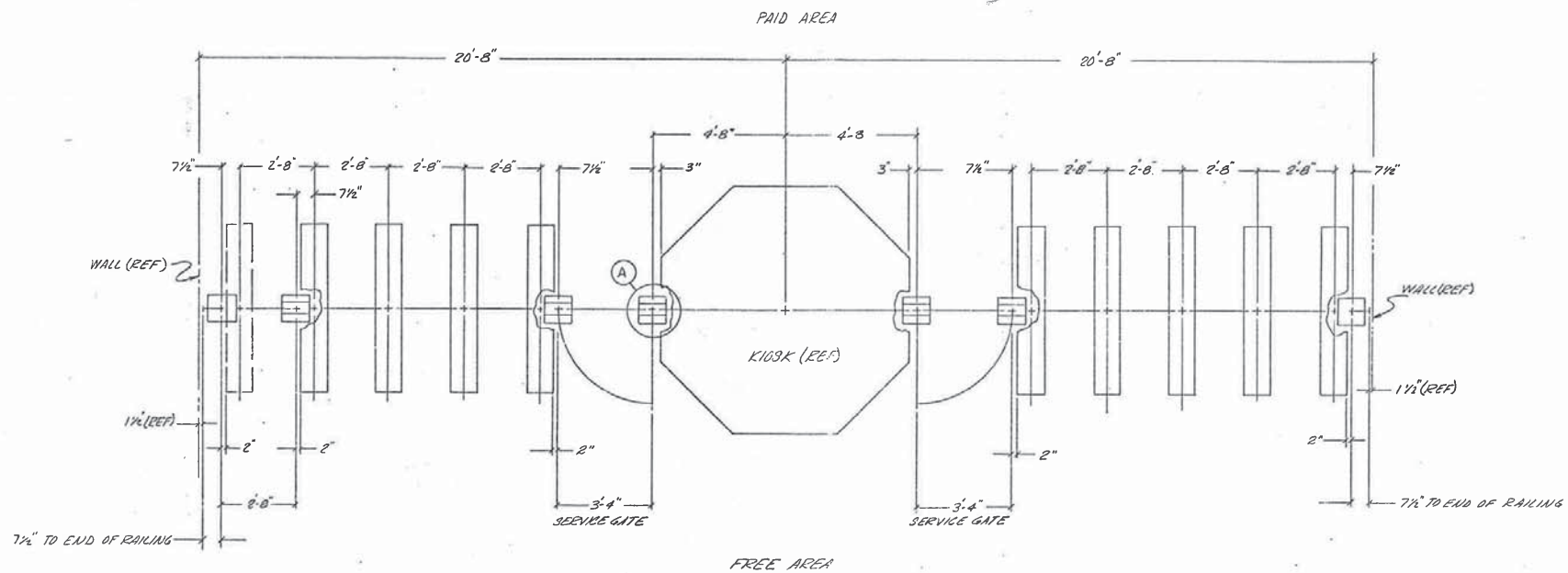
- NOTES:
1. All information concerning ducts and circuits is based on information supplied to Cubic Western Data by WMATA.
 2. Total machine inventory is depicted on this drawing.
 3. To maintain operational and machine inventory is referenced on the drawings by the station name.
 4. For as built condition see sheet 2, service gate building.
 5. For reference drawings and see reports document to be checked for this drawing.

AS BUILT
AS BUILT AS OF 8-1-79 22007A
**WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY**

CONTRACT NUMBER	CUBIC WESTERN DATA
DESIGN ACTIVITY APPROVAL	COURT HOUSE STATION A.F.C. MACHINES
DATE	926-0410
SCALE	AS SHOWN

#076

Pre-Inspection Field
Verification 1/15/2015



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

DO NOT SCALE DRAWINGS	
UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
CONNECTIONS ARE IN INCHES	CONNECTIONS ARE IN INCHES
REWORK SHALL BE IN ACCORDANCE WITH THE CONTRACT	REWORK SHALL BE IN ACCORDANCE WITH THE CONTRACT
REVISIONS: XX-001	REVISIONS: XX-001
DATE: 1/15/2015	DATE: 1/15/2015
BY: [Signature]	BY: [Signature]
CHECKED: [Signature]	CHECKED: [Signature]
DESIGNED: [Signature]	DESIGNED: [Signature]
DRAWN: [Signature]	DRAWN: [Signature]
SCALE: 1/4"=1'-0"	SCALE: 1/4"=1'-0"
CONTRACT NUMBER	
DRAWING NUMBER	
SHEET / OF /	
TITLE	
CUSIC WESTERN DATA	
SERVICE GATES & RAILING	
CODE IDENT NO.	
94987	
DRAWING NO.	
226-0365	
DATE: 1/15/2015	

REF 316-1544

Pre-Inspection Field
Verification 1/15/2015

EXISTING PANEL "EF" ✓										
AMPERES: 250			VOLTS: 120/208			MOUNTING: SURFACE				
MANS: 250A MCB			PHASE: 3			LOCATION: ELEC. EQUIPMENT RM. 205 ✓				
RATING: 10K AIC			WIRE: 4			SECTION: 1 OF 1				
LOAD DESCRIPTION	KVA	AMP	POLE	CKT. NO.	CKT. NO.	CKT BKRS	AMP	KVA	LOAD DESCRIPTION	
EXIST. LOAD CENTER "KES"	2.9	40	3	1	A - -	2	1	20	0.8	EXISTING VENDOR
	2.5	-	-	3	- B -	4	1	20	0.8	EXISTING VENDOR
	2.5	-	-	5	- C -	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A - -	8	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.0	SPARE
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	0.0	SPARE
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	27	- B -	28	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.0	SPARE
✓ 1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	31	A - -	32	1	20	0.0	SPARE
✓ 182 SPARE (KIOSK)	0.0	20	1	33	- B -	34	1	20	0.0	SPARE
SPARE	0.0	20	1	35	- - C	36	1	20	0.0	SPARE
SPARE	0.0	20	1	37	A - -	38	1	20	0.0	SPARE
SPARE	0.0	20	1	39	- B -	40	1	20	0.0	SPARE
SPACE	0.0	-	-	41	- - C	42	-	-	0.0	SPACE
SPACE	0.0	-	-	43	A - -	44	-	-	0.0	SPACE

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 "EF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD, "ESSENTIAL" LOCATED IN BATTERY AC SWBD RM. 305, CIRCUIT (K01-ESSENTIAL-07)-#7-150/3P VIA 75KVA TRANSFORMER T-4 (SEE ATTACHED DWG. MM-K-E06).
 B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 2 6" x 2" FLOOR DUCTS (WIRING FILL >40%).
 * 1-3/4" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
 EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
 * 1-1/2" C. (WIRING FILL >40%).

Breaker
"Transformer T4
(For Panel EF)"

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	12-14				
CHECKED	B. IDLEB	12-14				
APPROVED	N/A					

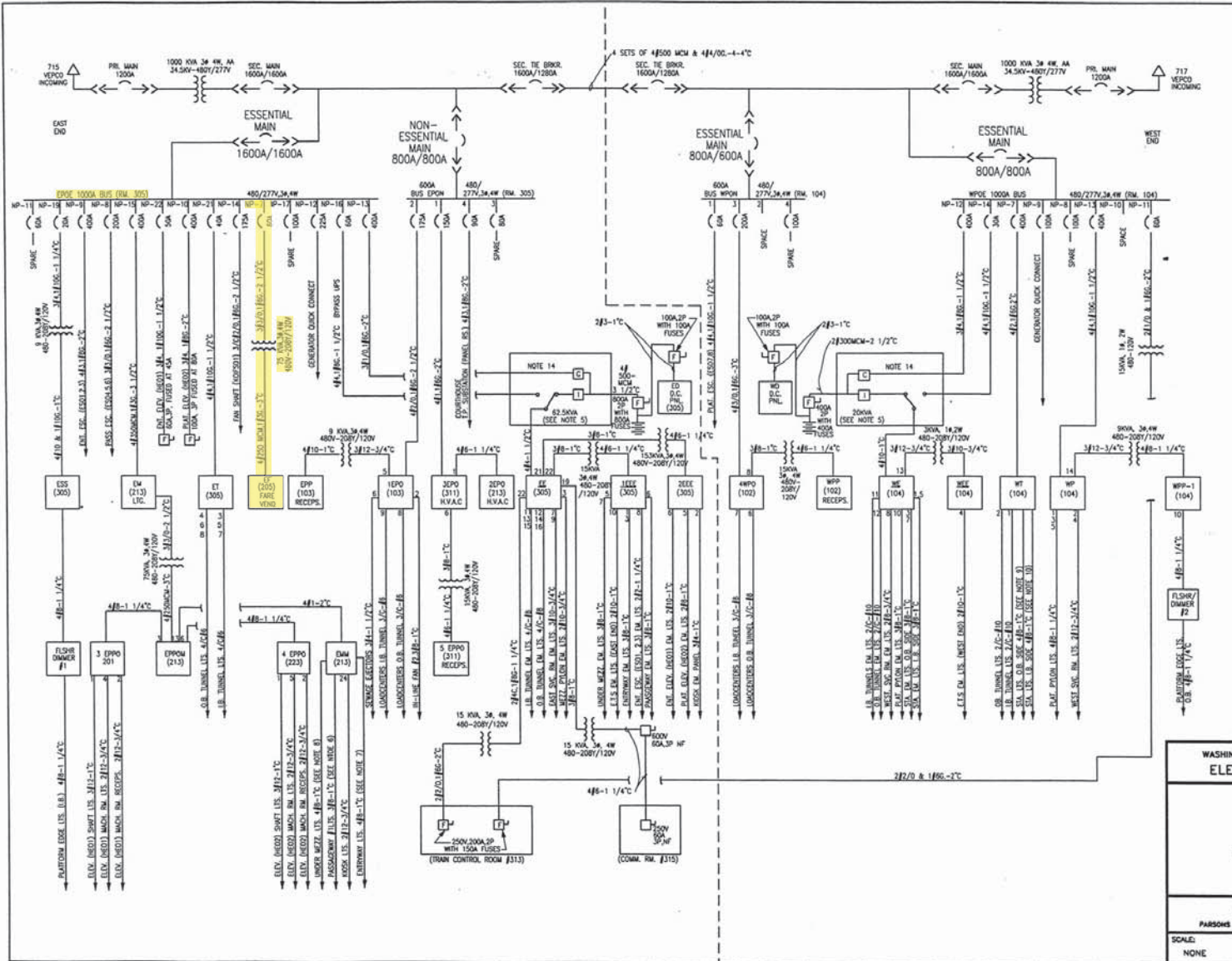
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP JOINT VENTURE
 A Gannett Fleming/Parsons

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
 IN METRO RAIL STATIONS
 COURT HOUSE
 PANEL SCHEDULE

SCALE: NOT TO SCALE
 DRAWING NO.: K01-E-102



- NOTES:**
1. - PANEL DESIGNATION
 WEA (203) - PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 B (CIRCUIT NUMBER)
 2. $3/2 \times 1/2 \times 2 \times 2$ - CONDUIT SIZE
 --- - M.W. GROUND WIRE
 --- - MCM OR MCM CIRCUIT WIRES
 3. CIRCUIT BREAKERS
 DRAW OUT \leftarrow \rightarrow 1600A/1200A
 MOLDED CASE \leftarrow \rightarrow TRIP SETTINGS
 TRIP SETTING \leftarrow \rightarrow FRAME SIZE
 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. TYPICAL FOR BRANCH CIRCUIT GROUND (13,15) (14,16) (18,20)
 7. TYPICAL FOR BRANCH CIRCUIT GROUND (13,15) (24,45) CIRCUITS (7,9) & (8,10) ARE FED BY 3/8-1/C
 8. TYPICAL FOR BRANCH CIRCUIT GROUND (19,21,23) (28,28,30)
 9. TYPICAL FOR BRANCH CIRCUIT GROUND (8,10,12) (13,15,17)
 10. TYPICAL FOR BRANCH CIRCUIT GROUND (7,8,11) (18,20,22)
 11. SWITCHGEAR MANUFACTURER: I.T.E.
 12. RATING AS SHOWN FOR FUSED DISCONNECT SWITCH AS TAKEN FROM AS BUILT DWGS.
 13. UPS MANUFACTURER: IPM

Pre-Inspection Field Verification 1/15/2015


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 ELECTRICAL MAINTENANCE MAP

VIENNA ROUTE
 COURTHOUSE STATION
 A.C POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE DRAWING NO. MM-K-E06

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 01/15/2015		Station Name: Clarendon- K02		Mezzanine #: 097		Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes			
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: Panel M Source Breaker Name/Number: Breaker #6 Electrical AFC Panel Name/Number: 1MM	Rm C203 Rm C203 Rm C203				
<input checked="" type="checkbox"/>	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					
<input checked="" type="checkbox"/>	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					
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level.			
Emergency Power Verification							
Check	Task	Equipment	Room ID	Notes			
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Kiosk Panel (unlabeled) Source Breaker Name/Number: Breaker #9 Panel Name/Number: Emergency Power to Faregates	Kiosk Kiosk				
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		1/15/2015					

Pictures 1&2: K02 Clarendon – No handholes in mezzanine



Picture 3: K02 Clarendon – Manhole in maintenance area off of mezzanine



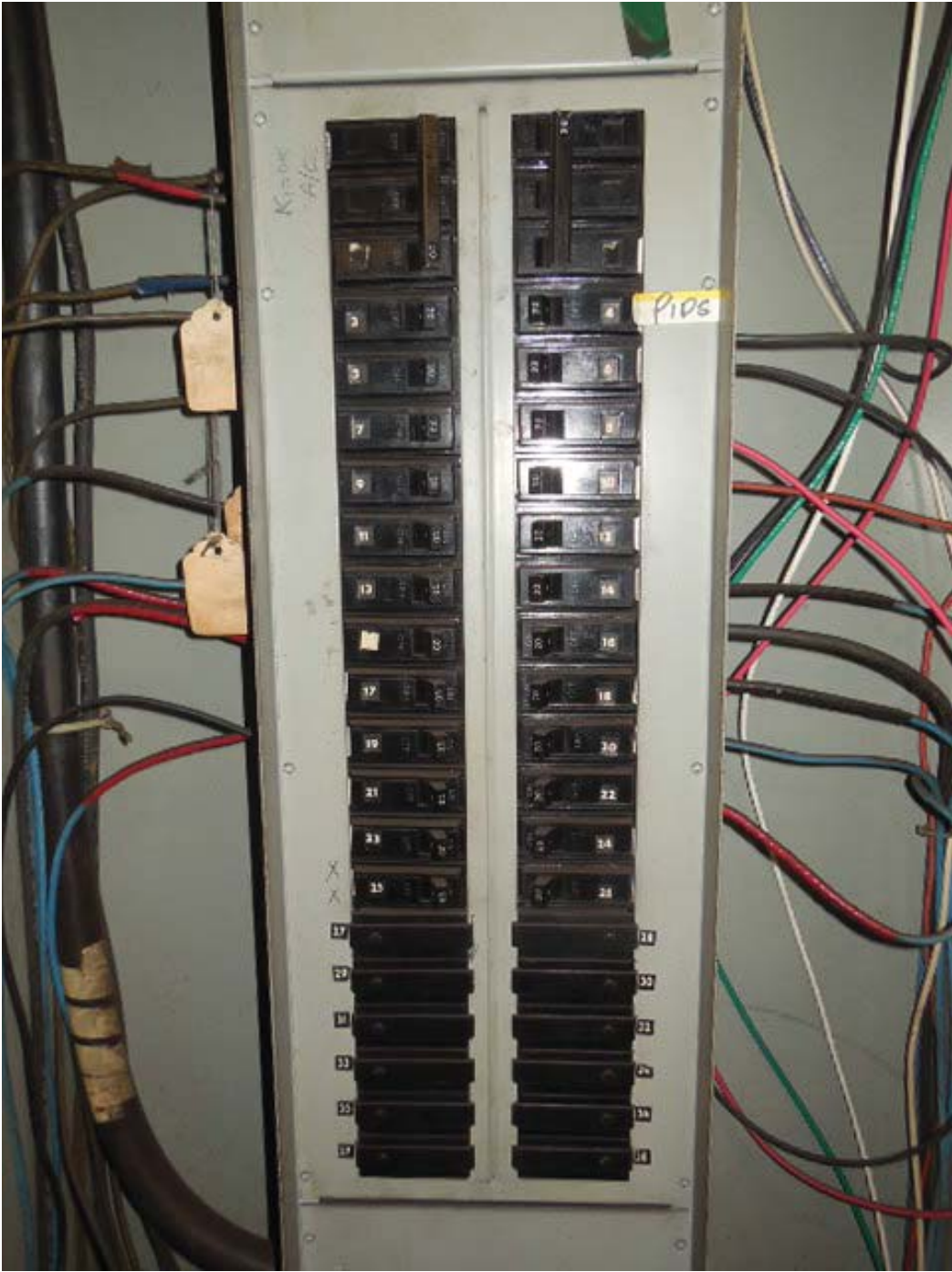
Picture 4: K02 Clarendon – Emergency Panel KE in Kiosk



Picture 5: K02 Clarendon – AFC Panel IMM in room C203



Picture 6: K02 Clarendon – AFC Panel IMM in room C203



Picture 7: K02 Clarendon – AFC Panel IMM in room C203, Bottom ducts



Picture 8: K02 Clarendon – AFC Panel IMM in room C203, Panel schedule

UNIT: WESTERN DATA

TYPES: Clarendon MEZZANINE

UNIT NUMBER		DEL. NUMBER NO.	CNO. SERIAL	CIRCUIT	BREAKER	WIRE
LOCATION & INVENTORY		PER. DATE	NUMBER	NO. NO.	SIZE	SIZE
NO.	DEPT.	INVT.	INVT.	PANEL	INVT.	
1	SWD		OS 8053			
2	SWD	34	GR 3058	11	20	#30
3	SWD	31	GR 722P	20	20	#10
4	SWD	32	GR 7226	13	20	#10
5	SWD	33	GR 7224	14	20	#10
6	SWD	39	GR 4057	15	20	#10
7	F/C Vendor	30	FV 1297	18	20	#10
8	F/C Vendor	31	FV 1294	19	20	#10
9	F/C Vendor	32		21		
10	SWD	50	M 2101	16	20	#6
11	SWD	51	M 2104	17	20	#6
12						
13						
14						
15						
16						
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19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

PANEL 2MM

10	Receipt. High Mezz				
11	Entry Gates				
12	"				
13	"				
14	"				
15	"				
16	"				
17	"				
18	"				
19	"				
20	"				
21	"				
22	"				
23	"				
24	"				
25	"				
26	"				
27	"				
28	"				
29	"				
30	"				
31	"				
32	"				

TRANSFER Dispenser
TRANSFER Dispenser

10 - SMARTTIP-2
8 - SMARTTIP-1

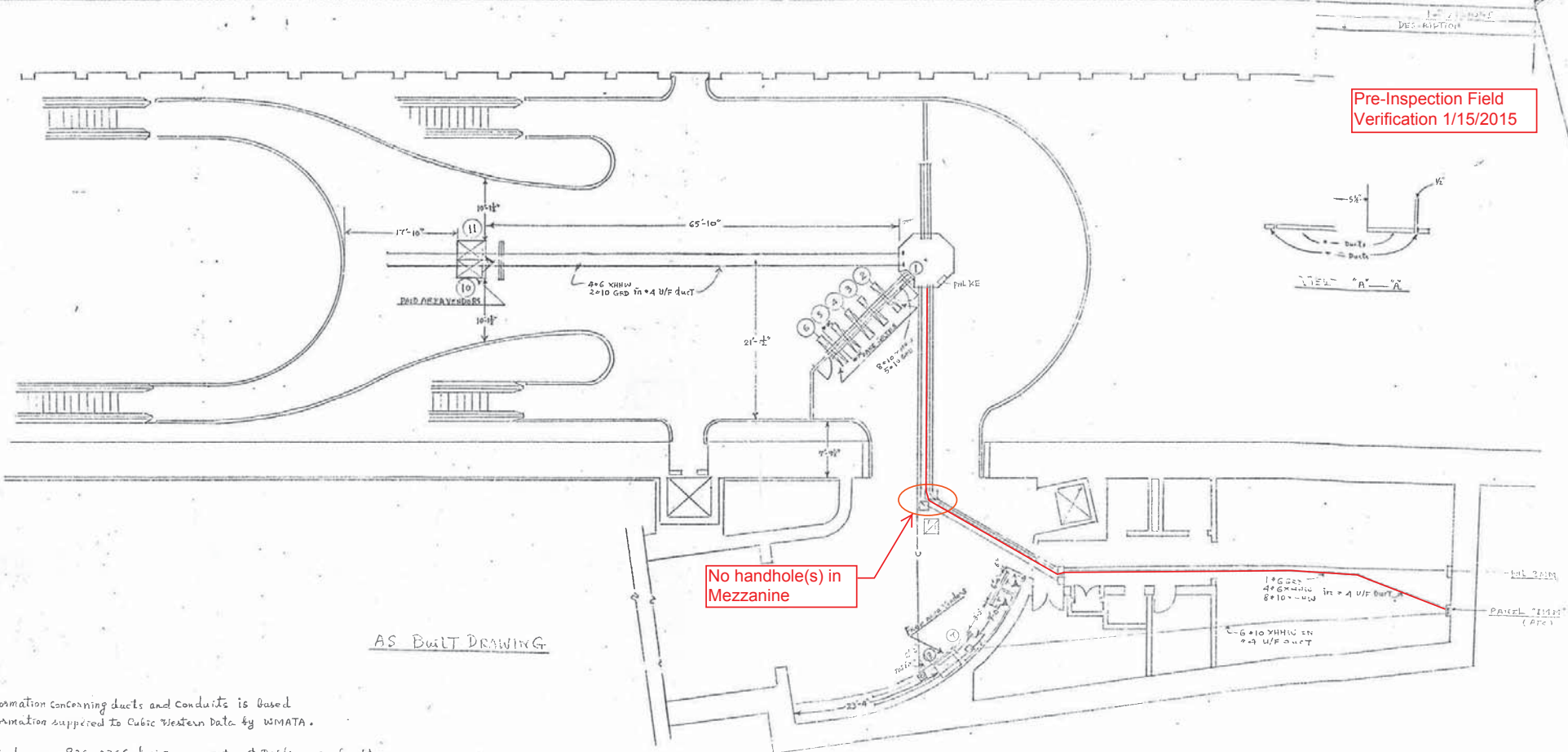
Picture 9: K02 Clarendon – AFC Panel M in room C203



Picture 10: K02 Clarendon – AFC Panel M in room C203, Panel schedule

M PANEL	
1	Lts - Sidewalk pylon (Missing) Photo.
2	Elev. canopy lts
3	Lts - Ent. service area
4	Spare
5	
6	112.5KVA trans - Panel IMM & 2MM
7	Spare
8	Spare
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	

Pre-Inspection Field
Verification 1/15/2015



AS BUILT DRAWING

NOTES:

1. ALL information concerning ducts and conduits is based on information supplied to Cubic Western Data by WMATA.
2. Refer to drawing 926-0366 for service gates & Parking as built.
3. Refer to sheet 2 for machine inventory and panel schedule.
4. Refer to sheet 926-0329 for interface requirements.

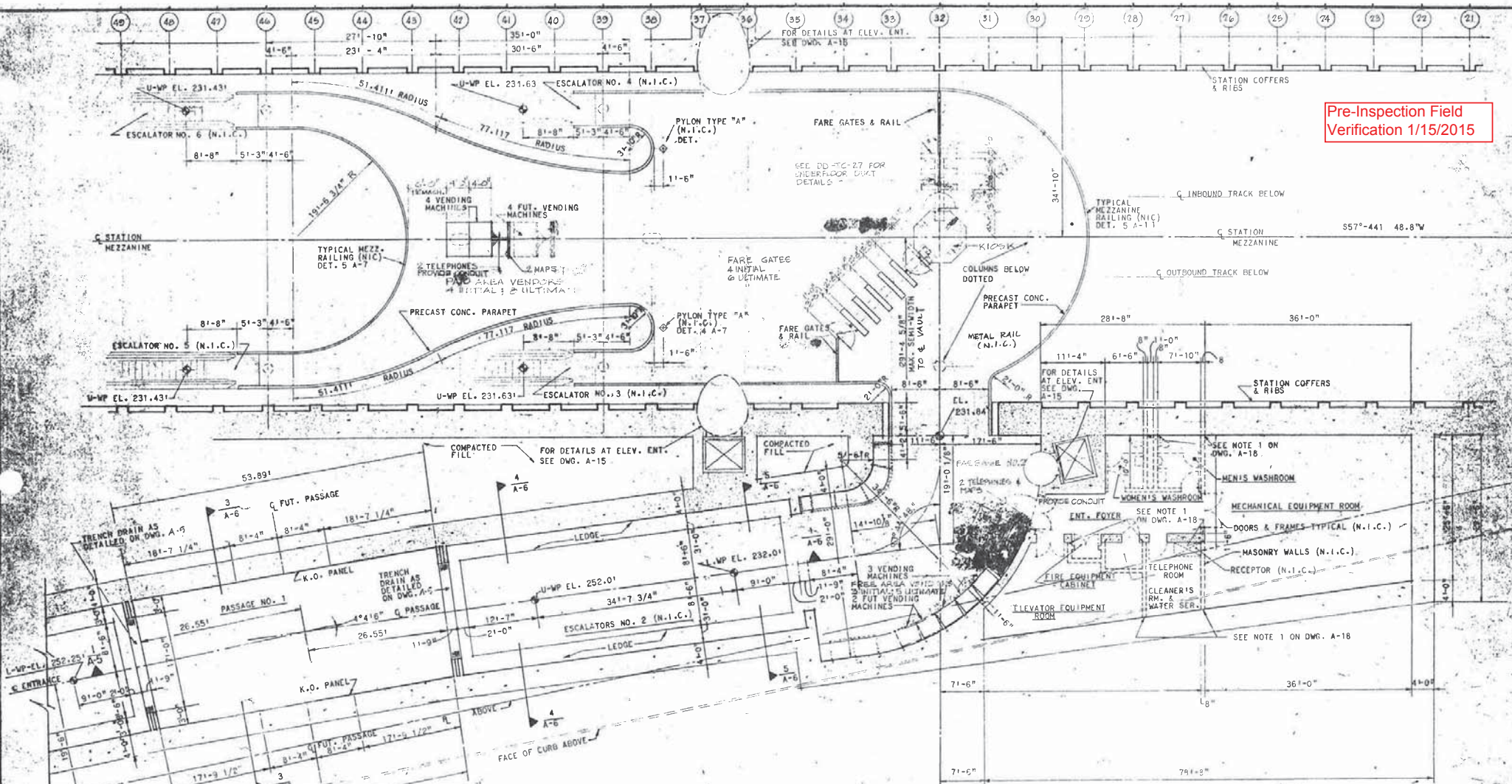
ITEM	QTY	TYPE	SIZE
FREE AREA VEHICLES	10	VEHICLE	96"
PAVE GATES	10	"	162"
PARK AREA VEHICLES	6	"	225"
GROUND	6	"	150"
SWING & L	12	"	12' x 25'
DAPS	10	"	"
SUBSTRATE	10	"	"

CP-22007A-135-2-1

WASHINGTON METRO
ARCHITECTURAL

CONTRACT NUMBER		CUBIC WESTERN DATA <small>University of Colorado MID-LEVEL WEST BAYVIEW OFFICE BLDG 1000 W. SAN JOSE CA 95013</small>	
DESIGN ACTIVITY APPROVAL		DATE	DRAWING NUMBER
APPROVED		SCALE	926-0413
		SHEET	97 OF

Pre-Inspection Field
Verification 1/15/2015



MEZZANINE & PASSAGE
SCALE: 1/8" = 1'-0"

A-18 SERVICE AREAS-PLANS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
DD-TC-27	ISS OF UNDERFLOOR DUCT UNDER PARE COLLECTION CONSOLID.		

DESIGNED: HWA
DRAWN: JST
CHECKED: [Signature]
APPROVED: [Signature]

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED: *Shirley Thurber* 7/17/14
DIRECTOR OF TRANSPORTATION

APPROVED: *Ray J. Smith* 7/17/14
CHIEF OF DESIGN AND CONSTRUCTION

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED: *Stacy Cullum* 6/27/14

CLARENDON STATION
MEZZANINE & PASSAGE
FARE MACHINES, PHONES & MAPS

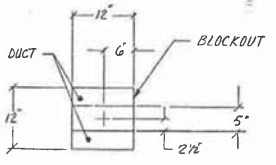
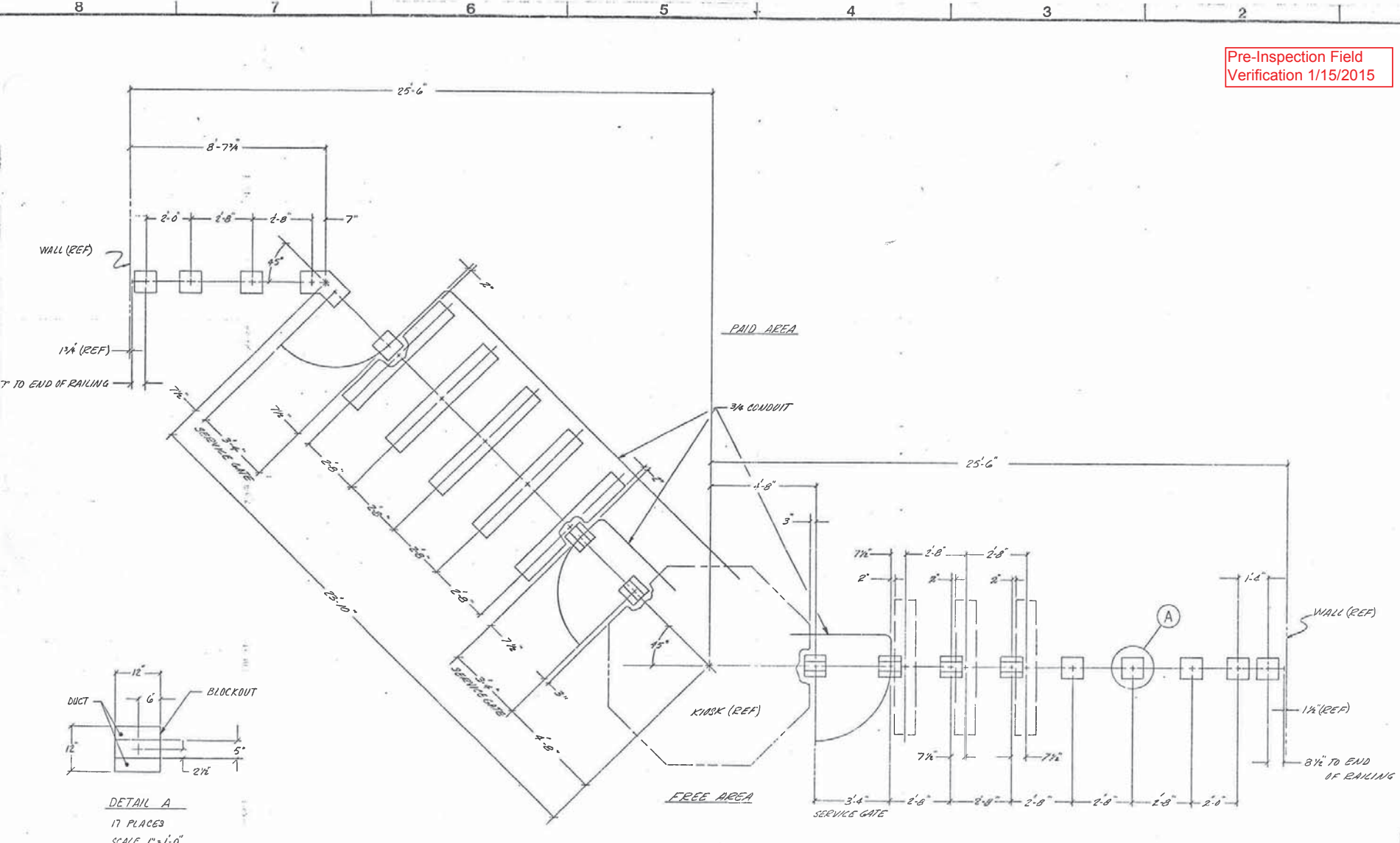
SCALE: 1/8" = 1'-0"

DRAWING NO: 5K-836

KEY PLAN NO SCALE

97

Pre-Inspection Field
Verification 1/15/2015



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

DO NOT SCALE DRAWING	
DATE: 01/15/2015	SCALE: AS SHOWN
DRAWING NUMBER: 926-0366	
SHEET 1 OF 1	
TITLE: CHANDLER STATION SERVICE GATE & RAILING	
CUBIC WESTERN DATA	
CODE IDENT NO. 94987	
DRAWN: [Signature]	CHECK: [Signature]
DESIGN: [Signature]	APPROVAL: [Signature]
DATE: 01/15/2015	SCALE: 1/4"=1'-0"

REF SK-B36

97

Pre-Inspection Field
Verification 1/15/2015

EXISTING PANEL "1MM" ✓										
AMPERES: 225			VOLTS: 120/208			MOUNTING: SURFACE				
MAINS: 200AMCB			PHASE: 3			LOCATION: MECH. EQUIPMENT RM. C203 ✓				
RATING: 10KAC			WIRE: 4			SECTION: 1 OF 1				
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTK. NO.	CTK. NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXIST. LOAD CENTER "KES"	2.9	30	3	1	A - -	2	3	20	0.0	SPARE
	2.5	-	-	3	- B -	4	-	-	0.0	
	2.5	-	-	5	- - C	6	-	-	0.0	
1 EXISTING VENDOR	0.8	20	1	7	A - -	8	1	20	0.8	EXISTING VENDOR
1,2 EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
1,2 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	11	- - C	12	1	20	0.8	EXISTING VENDOR
1,2 SPARE (KIOSK)	0.0	20	1	13	A - -	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	27	- B -	28	1	20	0.0	SPARE
SPARE	0.0	20	1	29	- - C	30	1	20	0.0	SPARE
SPARE	0.0	-	-	31	A - -	32	-	-	0.0	SPACE
SPARE	0.0	-	-	33	- B -	34	-	-	0.0	SPACE
SPARE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE
SPARE	0.0	-	-	37	A - -	38	-	-	0.0	SPACE
SPARE	0.0	-	-	39	- B -	40	-	-	0.0	SPACE
SPARE	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
3. BREAKERS ARE IN SPACES 11 & 13 BUT CIRCUIT LABELS IN ACTUAL PANEL ARE 7 & 9

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	4.8 x 50%	2.4 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	6.0 x 100%	6.0 KVA
WATER HEATING	1.0 x 125%	1.3 KVA
TOTAL CONNECTED LOAD	24.8 KVA	23.4 KVA
		TOTAL DEMAND AMPS
		65.0 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	11.0 KVA	
PHASE B:	6.5 KVA	
PHASE C:	7.3 KVA	

NOTES: A. EXISTING PANEL "1MM" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "M" LOCATED IN MECH. EQUIPMENT C203, CIRCUIT #6-150/3P VIA 112.5KVA TRANSFORMER (SEE ATTACHED DWG. MM-K-E07).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-6 1/2" x 2 1/2" FLOOR DUCTS (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
* 2-1/1" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	12-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	12-14				
CHECKED	B. IDLBI	12-14				
APPROVED	N/A					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM



APPROVED _____ SUBMITTED _____ PROJECT MANAGER


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

SCALE: NOT TO SCALE
DRAWING NO.: K02-E-102

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 01/15/2015	Station Name: Virginia Square - K03	Mezzanine #: 098	Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: West Essential Power SWBD Source Breaker Name/Number: Breaker #10 Electrical AFC Panel Name/Number: WF	Rm 104 Rm 104 Rm C206	WM - Breaker "Panel WM" on West Essential Power SWBD; WF - Breaker "Panel WF" on West Essential Power SWBD; WPOB - Breaker "Panel WPOB" on West Essential Power SWBD;
<input checked="" type="checkbox"/>	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		WPOM - Breaker "Panel WPOM" on West Non-essential Power SWBD; WEZ - Breaker #6 on Panel WE
<input checked="" type="checkbox"/>	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 WML, WPOB, WM, WMM, WPOM, and WEZ all share common trough with Panel WF.
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		
<input checked="" type="checkbox"/>	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. Run is approx. 112' from Kiosk to AFC Panel via 3 handholes.

Emergency Power Verification				
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Panel KE Source Breaker Name/Number: Breaker #5a Panel Name/Number: Emergency Power Faregates	Kiosk Kiosk	

Notes and Discrepancies:		
Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	1/15/2015	

Pictures 1&2: K03 Virginia Square-GMU – Handholes & manholes in mezzanine



Pictures 3&4: K03 Virginia Square-GMU – Emergency Panel KE in Kiosk



Picture 5: K03 Virginia Square-GMU – AFC Panel WF in room C206



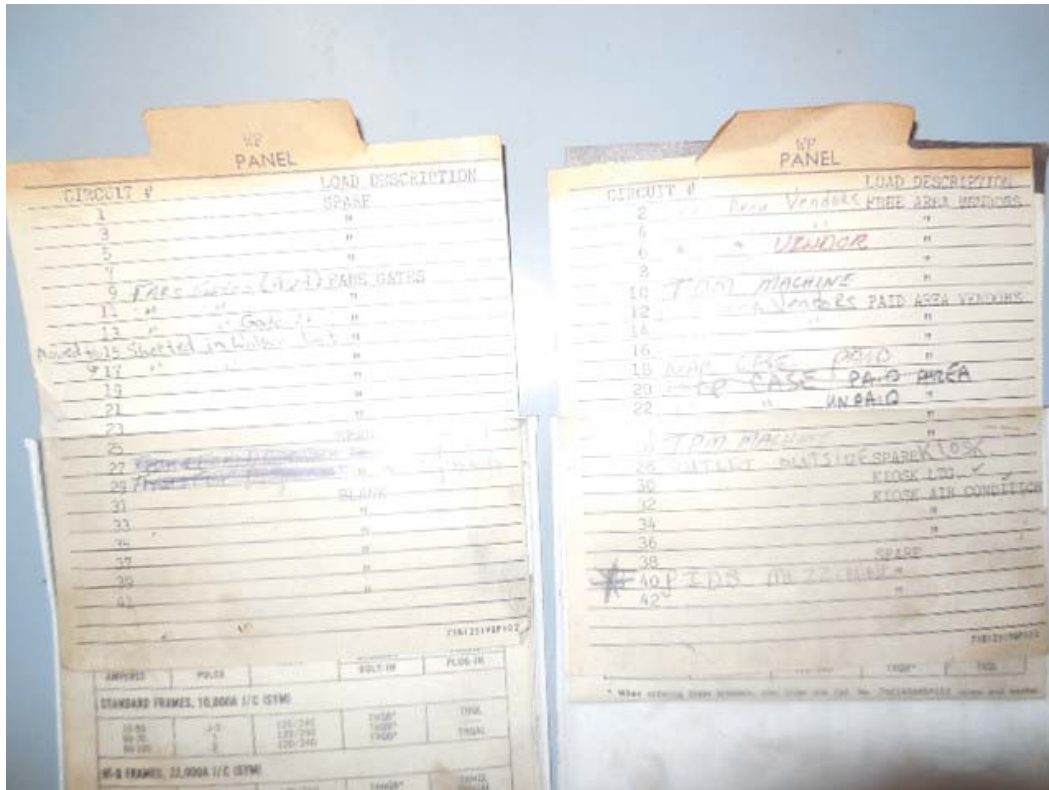
Picture 6: K03 Virginia Square-GMU – AFC Panel WF in room C206



Picture 7: K03 Virginia Square-GMU – AFC Panel WF in room C206, bottom conduits



Pictures 8&9: K03 Virginia Square-GMU – AFC Panel WF in room C206, panel schedules



Panel - WF

NOTES: Virginia Square MEZZANINE

WHATA MACHINE LOCATION & INVENTORY		CMD MACHINE NO PER DADS	CMD SERIAL NUMBERS	CIRCUIT BRKR. NO.	BREAKER SIZE	WIRE SIZE
NO.	INIT.	INIT.	INIT.	PANEL, WF		
1	DADS		8052			
2	EXIT	18	4058	17	20	#10
3	Rev	19	7219	15	20	#10
4	Rev	20	7222	13	20	#10
5	Rev	21	7217	11	20	#10
6	Entry	22	3055	9	20	#10
7	Addfare	50	2101	14	20	#06
8	Addfare	51	2102	12	20	#06
9	PC Vendor	30	1078	2	20	#10
10	PC Vendor	31	1085	4	20	#10
11						
12						
13						
14						
15						
16						
17						

Pictures 10&11: K03 Virginia Square-GMU – Panel WE, Main EMG. Panel & panel breakers in room 104



Picture 12: K03 Virginia Square-GMU – Panel WE, Main EMG. Panel in room 104, panel schedule

WE
PANEL

CIRCUIT #	LOAD DESCRIPTION
1	SOUTH TUNNEL LGTS.
2,4,6	15 KVA TRANSF. T4
<i>SPARE #3 IN WEZ FEEDS DELIVERED TO PANEL for PNL 'WEZ' 206</i>	
3	PLATFORM LGTS.
5	ANCILLARY RMS. LGT.
7,9,11	STA. CENTER WALK LGTS.
8	NORTH TUNNEL LGTS
10	<i>AMSPRTM</i> SOUTH TUNNEL LGTS.
12	ENT. LTS.
13	EMERGENCY LIGHTING
14	<i>SOUTH TUNNEL</i> EMERG. TRIP, STAIRS
15	<i>STAIRWAY LTS</i> EMERG. TRIP, STA.
16	NORTH TUNNEL LGTS.
17	<i>SPARE</i> EMERG. LIGHTING
18	BLANK

Picture 13: K03 Virginia Square-GMU – West Essential Power SWBD in room 104



Picture 14: K03 Virginia Square-GMU – West Essential Power SWBD in room 104, Panel WF breaker



Picture 15: K03 Virginia Square-GMU – West Essential Power SWBD in room 104, Panel WM breaker



Picture 16: K03 Virginia Square-GMU – West Essential Power SWBD in room 104, Panel WPOB breaker



Picture 17: K03 Virginia Square-GMU – West Non-essential Power SWBD in room 104, Panel WPOM BRK



Pictures 18&19: K03 Virginia Square-GMU – Panel WEZ & panel schedule in room C206



CIRCUIT #	WEZ PANEL	LOAD DESCR.
1		PASSAGEWAY
2	<i>Elev #2</i>	ENT. ELEV. CAR.
3	<i>DELUGE Syst + EMERG</i>	ENT. ESCALATOR
4	<i>✓ ELEV NO 3 CAR</i>	ELEV. NO. 2 CAR.
5		S.E. ESCALATOR
6	<i>Elev. #1</i>	ELEV. NO. 3 CAR.
7	<i># 7</i>	S.W. ESCALATOR
8	<i># 8</i>	ENT. ESCALATOR/CON
9	<i># 5</i>	N.E. ESCALATOR
10		KIOSK EMERG. PAN.
11	<i># 4</i>	N.W. ESCALATOR
12		KIOSK EMERG. PAN.
13		SPARE
14		"
15	<i>CO</i>	<i>COMBO Verizon RM</i>
16		"
17		<i>Blame</i>
18		<i>BLANK</i>
19		"
20		"
21		"
22		"

Pictures 20&21: K03 Virginia Square-GMU – Panels WM & WML in room C206



Pictures 22&23: K03 Virginia Square-GMU – Panels WMM & WPOB in room C206



Picture 24: K03 Virginia Square-GMU – Panel WPOM in room C206



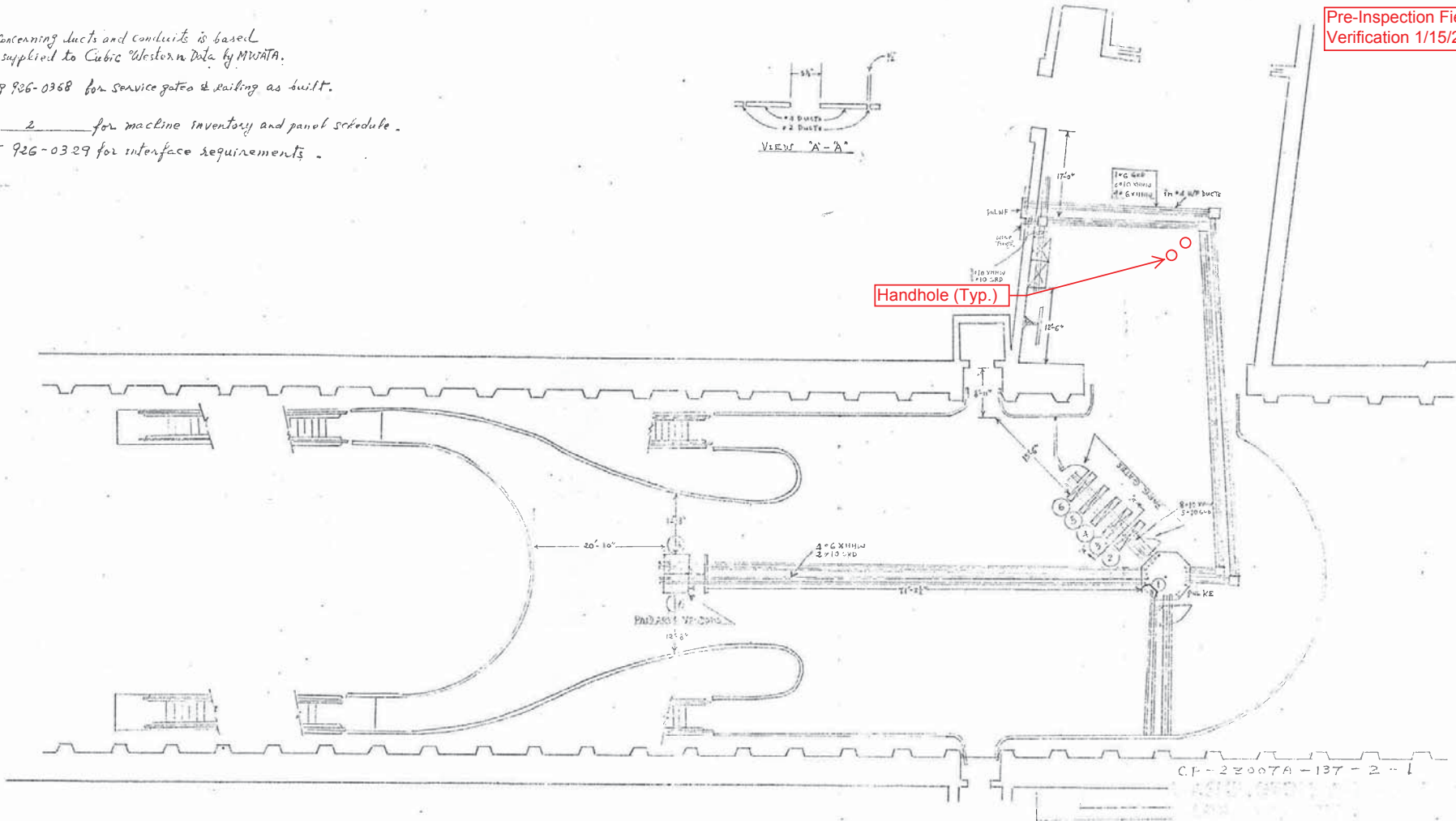
Pictures 25,26,27: K03 Virginia Square-GMU – Shared trough with AFC Panel WF in room C206



NOTES:

1. All information concerning ducts and conduits is based on information supplied to Cubic Western Data by MWATA.
2. Refer to drawing 926-0368 for service gate & railing as built.
3. Refer to sheet 2 for machine inventory and panel schedule.
4. Refer to sheet 926-0329 for interface requirements.

Pre-Inspection Field Verification 1/15/2015



AS BUILT DRAWING

ITEM	QUANTITY	TYPE	REQ	REMARKS
MECH AREA VENDOR	* 10	SPRING	36"	
JUMP WATTS	* 10	"	143"	
JUMP AREA VENDOR	* 6	"	173"	
Ground	* 6	"	123"	
ST. WGT	* 14	"	10" TO 25"	
DRYS	* 10	"		
Belts/eye	* 10	"		

CONTRACT NUMBER		CUBIC WESTERN DATA	
DESIGN ACTIVITY APPROVAL		SIZE	DRAWING NUMBER
APPROVED			926-0411
SCALE		SHEET OF	

98

Pre-Inspection Field Verification 1/15/2015

EXISTING PANEL "WF" ✓										
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE						
MAINS: 225A MCB		PHASE: 3		LOCATION: ROOM C208 ✓						
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CKT. NO.	CKT. 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
SPARE	0.0	20	1	5	- C	6	1	20	0.0	SPARE
SPARE	0.0	20	1	7	A -	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	11	- C	12	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	13	A -	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	- C	18	1	20	0.8	EXISTING VENDOR
✓ 1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	19	A -	20	1	20	0.0	SPARE
✓ 182 SPARE (KIOSK)	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	23	- C	24	1	20	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
SPARE	0.0	20	1	29	- C	30	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	31	A -	32	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	33	- B -	34	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	35	- C	36	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	37	A -	38	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	39	- B -	40	1	20	0.0	SPARE
SPACE	0.0	-	-	41	- C	42	1	20	0.8	EXISTING VENDOR

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

LOAD SUMMARY		
LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES: FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	7.8 x 50%	3.8 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	0.0 x 125%	0.0 KVA
AC	0.0 x 100%	0.0 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	17.8 KVA	TOTAL DEMAND KVA 13.8 KVA
		TOTAL DEMAND AMPS 38.3 AMPS

CONNECTED LOAD PHASE SUMMARY	
PHASE A:	6.4 KVA
PHASE B:	4.8 KVA
PHASE C:	6.4 KVA

NOTES: A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD. "W1" LOCATED IN AC SWBD RM. 104, CIRCUIT (K03-W1-10) #10-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-K-E08).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2 2" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1 4" C. (WIRING FILL >40%).
- 2 3/4" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	11-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	11-14				
CHECKED	B. IDLBI	11-14				
APPROVED	N/A					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

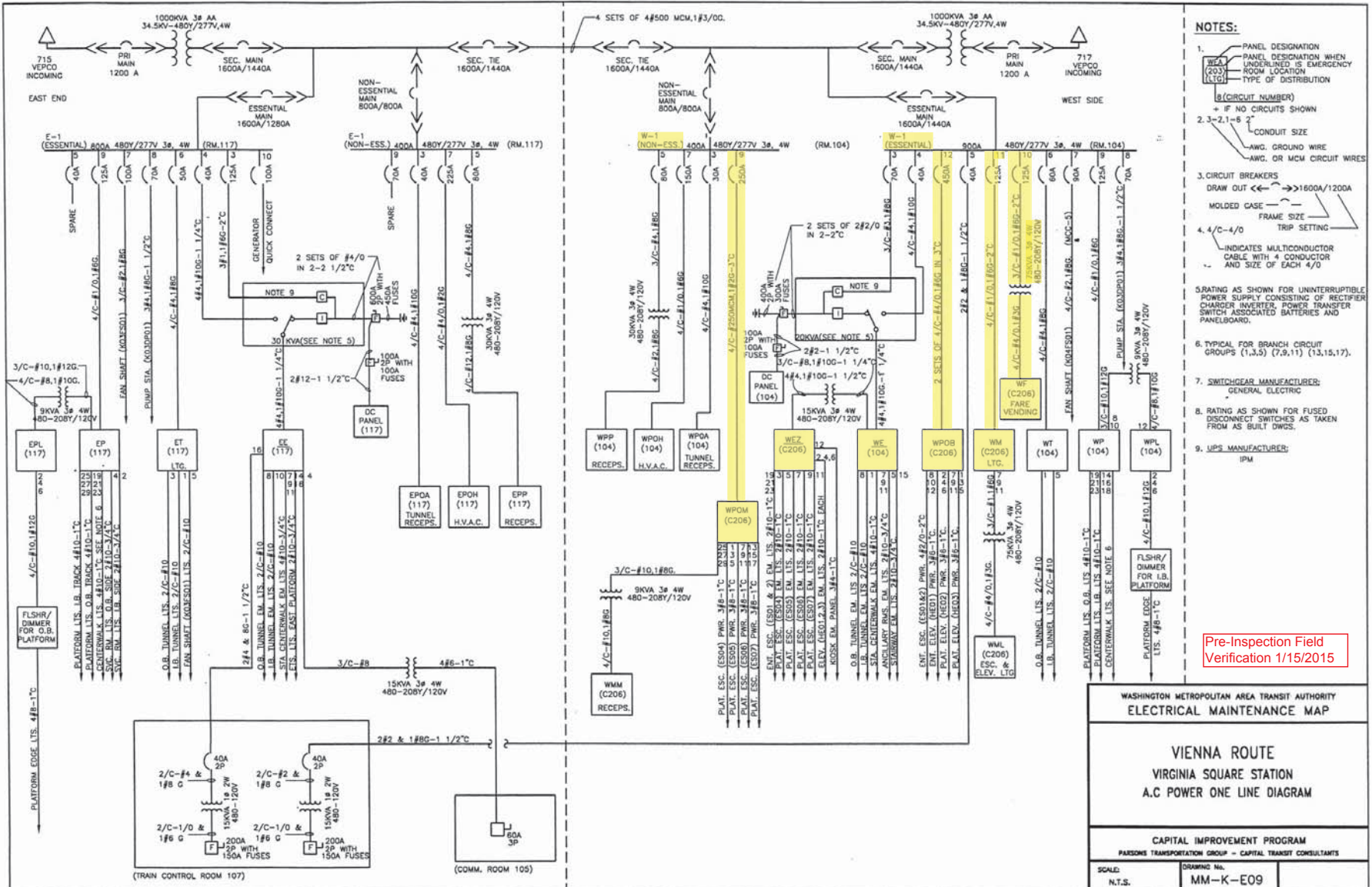


APPROVED _____ SUBMITTED _____
PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS

VIRGINIA SQUARE
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO.: K03-E-102



- NOTES:**
1. PANEL DESIGNATION
 PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 ROOM LOCATION
 TYPE OF DISTRIBUTION

(C) CIRCUIT NUMBER
 + IF NO CIRCUITS SHOWN
 2. 3-2.1-8 2"
 CONDUIT SIZE
 --- AWG. GROUND WIRE
 --- AWG. OR MCM CIRCUIT WIRES
 3. CIRCUIT BREAKERS
 DRAW OUT ← → 1600A/1200A
 MOLDED CASE --- FRAME SIZE
 4. 4/C-4/0 TRIP SETTING
 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. TYPICAL FOR BRANCH CIRCUIT GROUPS (1,3,5) (7,9,11) (13,15,17).
 7. SWITCHGEAR MANUFACTURER: GENERAL ELECTRIC
 8. RATING AS SHOWN FOR FUSED DISCONNECT SWITCHES AS TAKEN FROM AS BUILT DWGS.
 9. UPS MANUFACTURER: IPM

Pre-Inspection Field Verification 1/15/2015

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP


**VIENNA ROUTE
 VIRGINIA SQUARE STATION
 A.C. POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S. DRAWING NO.: **MM-K-E09**

Pre-Inspection Mezzanine Walkthrough Checklist

REVISION 1

Date: 01/08/2015	Station Name: East Falls Church - K05	Mezzanine #: 100	Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: SWBD AC1 Secondary Essential Source Breaker Name/Number: "Panel F 225/3" (Breaker #7) Electrical AFC Panel Name/Number: F	Rm 116 Rm 116 Rm 115	
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		One handhole visible in mezzanine.
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level. Power run from Kiosk to AFC Panel is approx. 150'.
Emergency Power Verification				
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: 2-Section Panel E Source Breaker Name/Number: Breaker #10, 12 Panel Name/Number: Kiosk Panel KE	Rm 116 Rm 116 Kiosk	
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	1/8/2015			

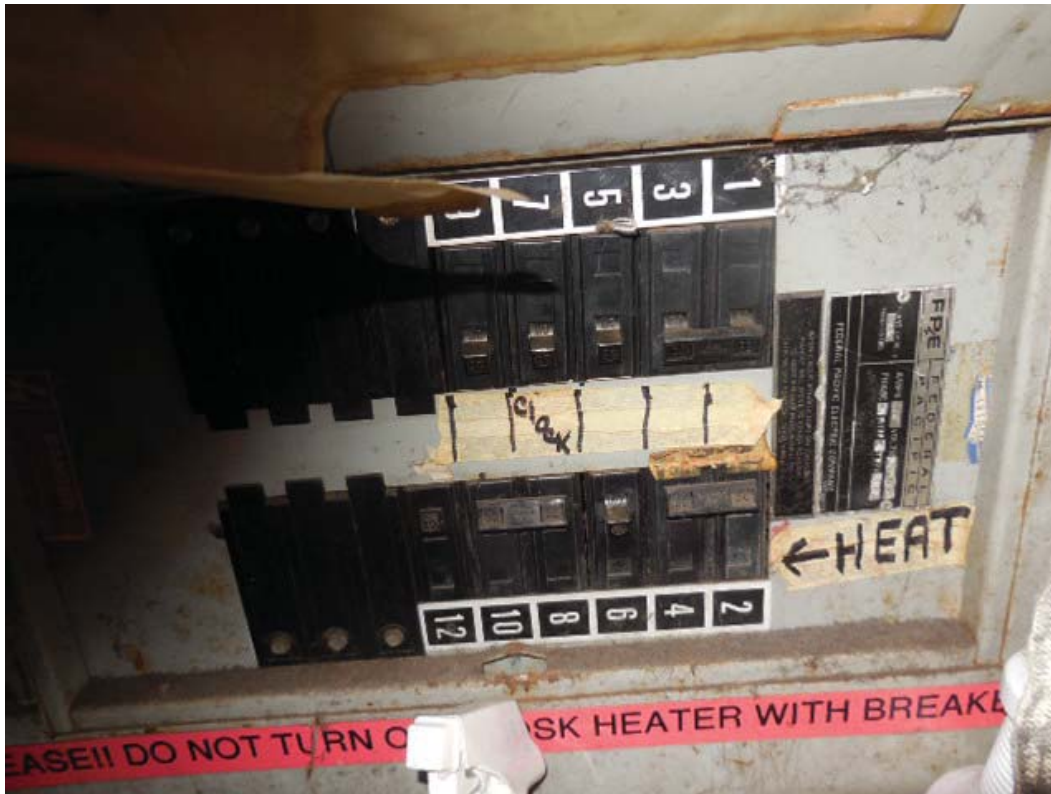
Pictures 1&2: K05 East Falls Church – Handholes in mezzanine



Picture 3: K05 East Falls Church – Manhole in mezzanine



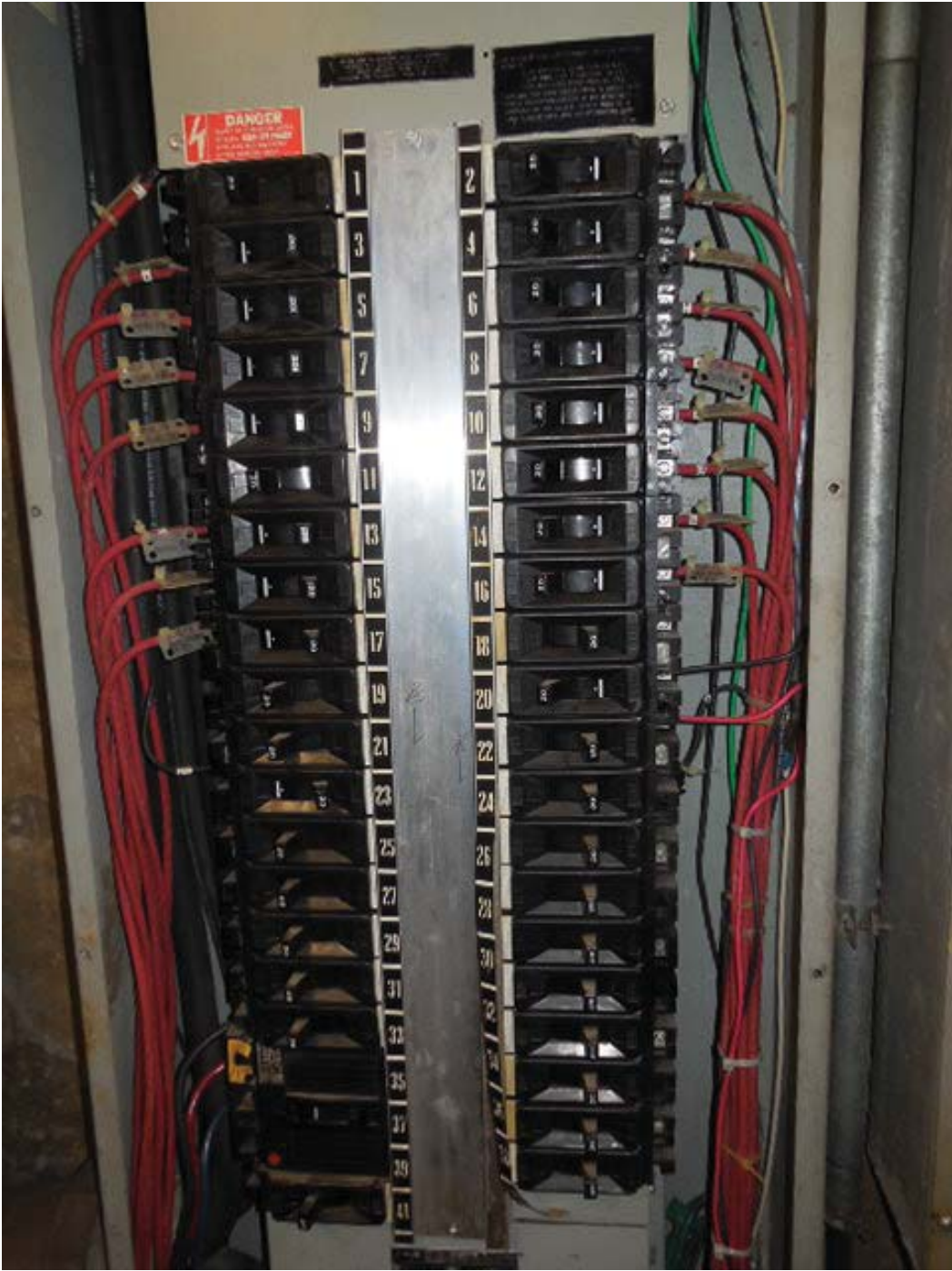
Pictures 4&5: K05 East Falls Church – Emergency Panel KE in Kiosk



Picture 6: K05 East Falls Church – AFC Panel F in room 115



Picture 7: K05 East Falls Church – AFC Panel F in room 115



Picture 8: K05 East Falls Church – AFC Panel F in room 115, Bottom ducts



Picture 9: K05 East Falls Church – AFC Panel F in room 115, Panel schedule

CIR.	LOAD	DESCRIPTION
1		Fare Equipment - Faregate #12
2		Fare Equipment - Faregate #13
3		Fare Equipment - Faregate #14
4		Fare Equipment - Faregate #15
5		Fare Equipment - Faregate #16
6		Fare Equipment - Faregate #17
7		Fare Equipment - Faregate #18
8		Fare Equipment - Faregate #19
9		Fare Equipment - Faregate #20
10		Fare Equipment - Faregate #21
11		Fare Equipment
12		Vending Equipment - Farecard #33
13		Vending Equipment - Farecard #34
14		Vending Equipment - Farecard #35
15		Vending Equipment - Farecard #36
16		Vending Equipment - Addfare #50
17		Vending Equipment - Addfare #51
18		Vending Equipment - Bus Transfer #52
19		Vending Equipment
20		Spare (Circuit) TDM #1
21		Vending Equipment
22		Vending Equipment TDM #2
23		Vending Equipment
24		Vending Equipment
25		Vending Equipment
26		Vending Equipment
27		Vending Equipment
28		Vending Equipment
29		Vending Equipment
30		Vending Equipment
31		Vending Equipment
32		Spare
33		Vending Equipment
34		Air Conditioning
35		Kiosk Panel Feed
36		Spare
37		Kiosk Panel Feed
38		Spare
39		Kiosk Panel Feed
40		Spare
41		Spare
42		

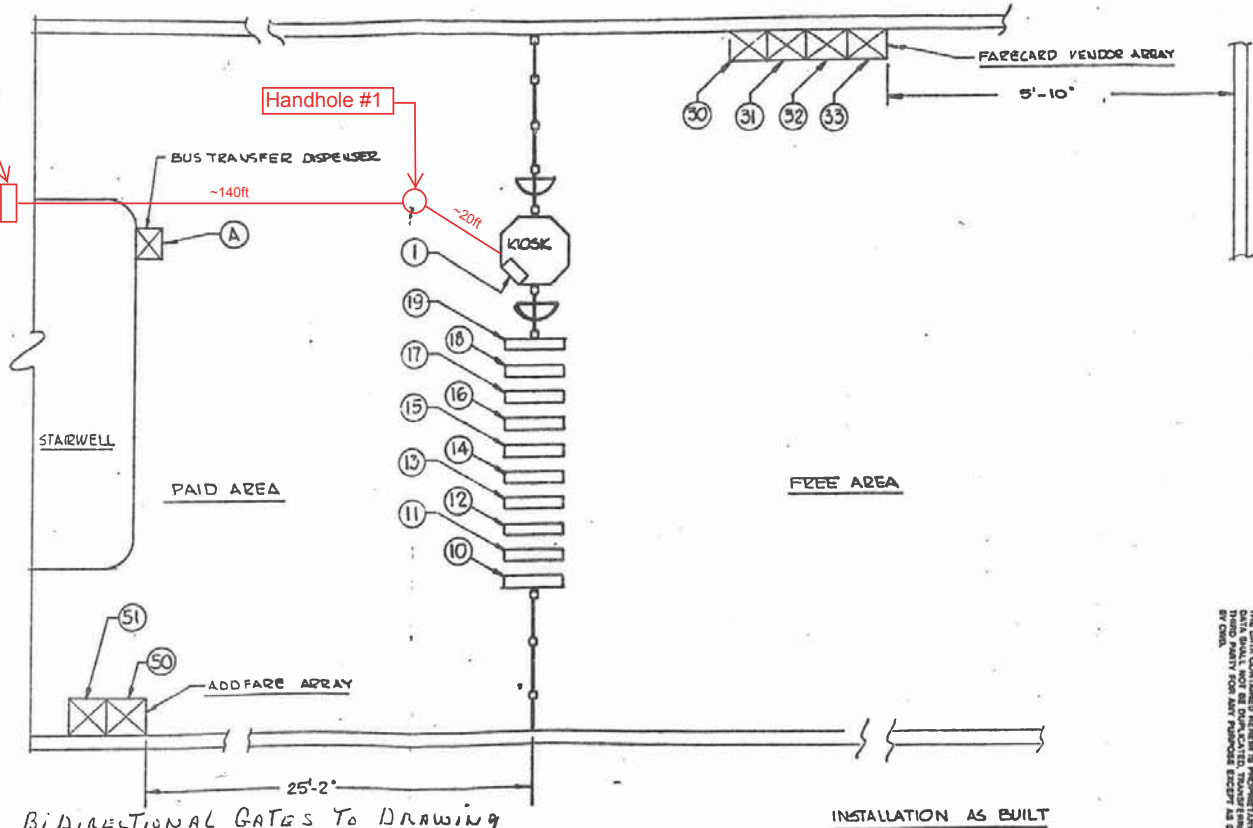
FEDERAL PACIFIC ELECTRIC CO. 3401B1296

Pictures 10&11: K05 East Falls Church – AC1 Secondary SWBD & breaker #7 for Panel F in room 116



Pre-Inspection Field Verification 1/8/2015

M WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 APPROVED AND CORRECTED
 (RESUBMITTAL NOT 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: *[Signature]*
 For Contracting Officer
 DATE: 1-11-15



OPTION NUMBER	MACHINE TYPE	SERIAL NUMBER	CIRCUIT BREAKER NUMBER	WIRE SIZE (AWG)
A	FARE DISPENSER		1. FG 1970	22
1	EDADS	DS 8013	2. FG 1873	23
10	EXIT GATE	GX 4502	3. FG 1774	23
11	REV. GATE	GR 7526	4. FG 1675	
12	"	GR 7529	5. FG 1676	
13	"	GR 7517	6. FG 1477	ALL
14	"	GR 7502	7. FG 1378	MACH.
15	"	GR 7522	8. FG 1279	6 GA
16	"	GR 7506	9. FG 1180	WIRE
17	"	GR 7531	10. FG 1081	
18	"	GR 7510		
19	ENTRY GATE	GN 3501	12. FV 93	
30	FARECARD VENDOR	FV 1216	13. FV 92	
31	"	FV 1188	14. FV 91	
32	"	FV 1311	15. FV 90	
33	"	FV 1125	16. AM 50	
50	ADDFARE	AM 2705	17. AM 51	
51	ADDFARE	AM 2704	18. XPER	
			21	42

1. ADD BIDIRECTIONAL GATES TO DRAWING
2. SERVICE GATE NO. 12 BREAKER NO. 1
3. " " " 13 " " 2
4. " " " 14 " " 3
5. " " " 15 " " 4
6. " " " 16 " " 5
7. " " " 17 " " 6
8. " " " 18 " " 7
9. " " " 19 " " 8
10. " " " 20 " " 9

CP 22007E 102-2-1

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CONTRACT NUMBER: 926-A
 DRAWING NUMBER: 926-0461
 SHEET 1 OF 1
 TITLE: EAST FALLS CHURCH STATION INSTALLATION PLAN
 CODE IDENT NO: 57560
 DRAWN: F. STREUB
 CHECKED: J. STREUB
 REVISIONS: NONE
 DATE: 1/11/15

Pre-Inspection Field
Verification 1/8/2015

EXISTING PANEL "F" ✓										
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE						
MAINS: 400A MCB		PHASE: 3		LOCATION: ELEC. EQUIPMENT ROOM 115 ✓						
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1						
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
SPARE	0.0	20	1	11	- - C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A - -	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.8	NEWKIOSK RECEPT. (IT & NEPP) ✓
SPARE	0.0	20	1	19	A - -	20	1	20	0.8	SPARE (KIOSK) ✓
SPARE	0.0	20	1	21	- B -	22	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.0	SPARE
SPARE	0.0	20	1	25	A - -	26	1	20	0.0	SPARE
SPARE	0.0	20	1	27	- B -	28	1	20	0.0	SPARE
SPARE	0.0	20	1	29	- - C	30	1	20	0.0	SPARE
SPARE	0.0	-	-	31	A - -	32	1	20	0.0	SPARE
SPARE	0.0	-	-	33	- B -	34	1	20	0.0	SPARE
EXISTING LOAD CENTER "KES"	2.9	40	3	35	- - C	36	1	20	0.0	SPARE
SPARE	2.5	-	-	37	A - -	38	1	20	0.0	SPARE
SPARE	2.5	-	-	39	- B -	40	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	41	- - C	42	-	-	0.0	SPACE

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

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPT ACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPT ACLES	5.6 x 50%	2.8 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	23.1 KVA	TOTAL DEMAND KVA
		21.1 KVA
		TOTAL DEMAND AMPS
		58.5 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	7.3 KVA	
PHASE B:	7.3 KVA	
PHASE C:	8.5 KVA	

NOTES: A. EXISTING PANEL "F" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD. "SWBD #1" LOCATED IN AC SWBD 116, CIRCUIT (K05-SWBD1-07) #7-225/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-K-E14).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-6 1/2" x 1 1/2" FLOOR DUCTS (WIRING FILL >40%).
* 1-3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-3/4" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

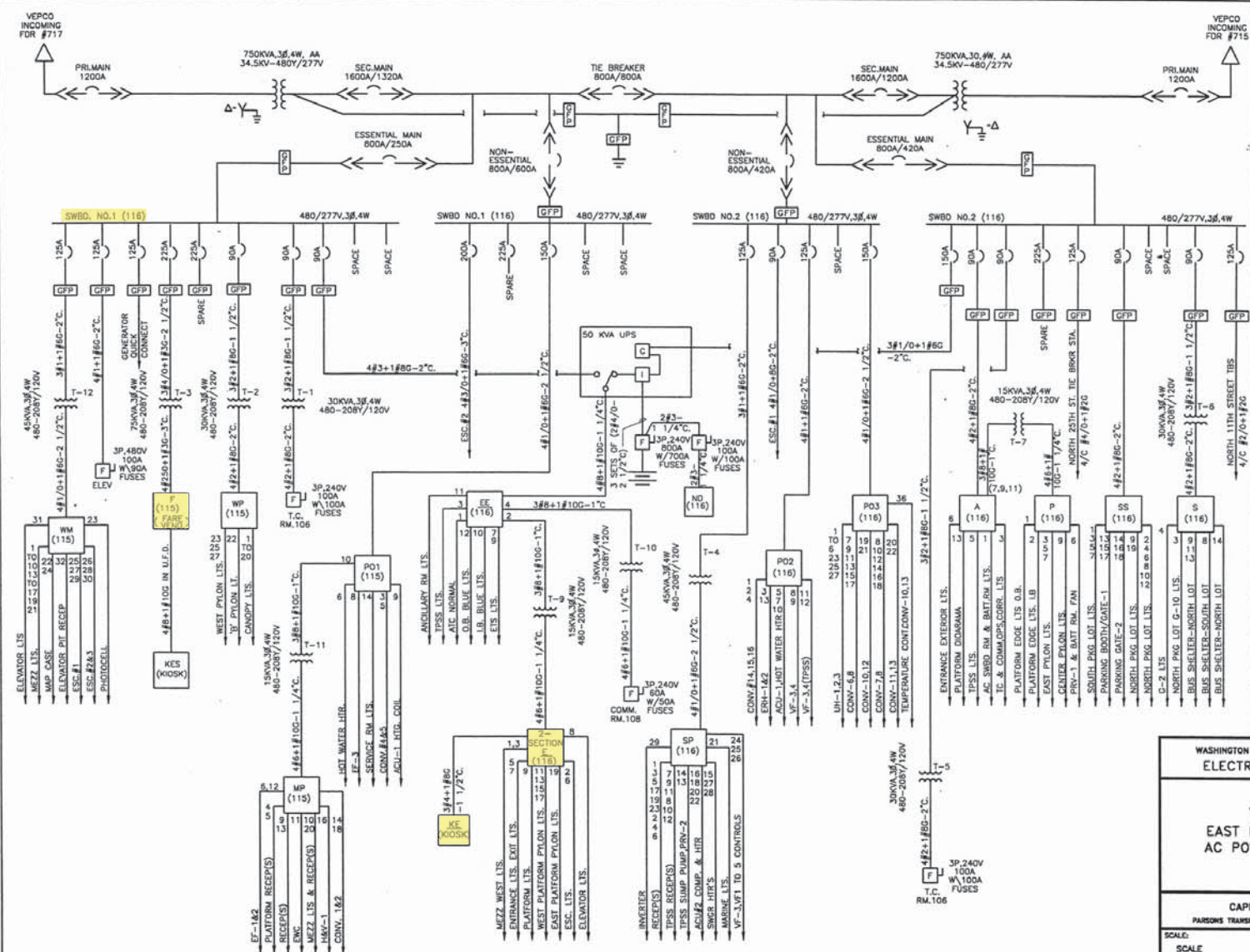
DESIGNED	C. NGO	11-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	11-14				
CHECKED	B. IDLBI	11-14				
APPROVED	N/A					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM



NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
EAST FALLS CHURCH
PANEL SCHEDULE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER _____
SCALE: NOT TO SCALE DRAWING NO. K05-E-102



- NOTES:**
- PANEL DESIGNATION

PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY

ROOM NUMBER

B (CIRCUIT NUMBER)
 - 3/2" 2" CONDUIT SIZE

AWG OR KCMIL CIRCUIT WIRES (AS TAKEN FROM CONTRACT DWGS.)
 - CIRCUIT BREAKERS

DRAW OUT ← 1600A/1200A

FRAME SIZE CONTINUOUS CURRENT SETTING
 - SWITCHGEAR INFORMATION:**

a. MANUFACTURER: FPE

b. SERIAL NO. : 80-9-29
 - UPS MANUFACTURE:**

INTERNATIONAL POWER MACHINE
 - ROOM DESIGNATIONS:**

 - 100 TRACTION POWER SUBSTATION
 - 102 OPERATIONS ROOM
 - 106 TRAIN CONTROL ROOM
 - 108 COMMUNICATIONS ROOM
 - 110 MECHANICAL ROOM
 - 114 BATTERY ROOM
 - 116 A.C. SWBD ROOM
 - 115 MEZZANINE ELECTRICAL EQUIPMENT ROOM

Pre-Inspection Field Verification 1/8/2015


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

VIENNA ROUTE
EAST FALLS CHURCH STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: DRAWING No. MM-K-E14

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/20/2014		Station Name: West Falls Church - K06		Mezzanine #: 101		Completed By: Tino Sahoo	
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number:	AC-1 Secondary Essential/ SWBD No.1	Rm 106	S.O.: SWBD AC-1 Secondary Essential Breaker "Panel board FL-1" SWBD AC-2 Secondary Non-Essential Breaker "Panel board MH-1" Breaker "Panel board POH2"		
		Source Breaker Name/Number:	"Panel board FL-1"	Rm 106			
		Electrical AFC Panel Name/Number:	FL-1	Rm 212			
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number:			Panel Emergency Power EL1-L Breaker #16		
		SMNT/POWR escorts:	HIGH and LOW Voltage				
<input checked="" type="checkbox"/>	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 MML1, POH2, ML2, ML1, MH1, and FL1 share common trough.		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input type="checkbox"/>	COMM / IT <input type="checkbox"/>	ELES <input type="checkbox"/>			
		RAIL <input type="checkbox"/>	CMNT <input type="checkbox"/>				
		Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	NO		All conduit/ducts on one level. No handholes; straight run of about 70ft.		
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:	Emergency Power EL1-L	Rm 106			
		Source Breaker Name/Number:	Breaker #16	Rm 106			
		Panel Name/Number:	KE (Kiosk Emergency Panel)	Kiosk			
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		11/20/2014					

Picture 1: K06 West Falls Church – No handholes in Mezzanine



Picture 2: K06 West Falls Church – Unassociated access hatch in Mezzanine



Picture 3: K06 West Falls Church – Room 210 in Mezzanine which leads to Room 212 electrical room



Pictures 4&5: K06 West Falls Church – Emergency panels in Kiosk



Pictures 6&7: K06 West Falls Church – Emergency power panel ELI-L & breaker 16 in Room 106



Picture 8: K06 West Falls Church – Emergency power panel ELI-L in Room 106 – Panel schedule

6	
7	
8	
9	
10	
11	North Entrance Elevator (Pit)
12	Spare RTU AEMS
13	O.B. Elevator #1 (Pit)
14	
15	I.B. Elevator #2 (Pit)
16	Panel KE (Kiosk)
17	Spare
18	
19	Spare
20	Spare
21	- Control Circuit for C1 & C2 - Contactor Bank
22	Spare
23	Spare
24	Spare
25	Spare
26	Spare
27	
28	
29	
30	
31	

Pictures 9&10: K06 West Falls Church – AFC Panel FL-1 & bottom of panel in Room 212



Picture 11: K06 West Falls Church – AFC Panel FL-1 in Room 212



Picture 12: K06 West Falls Church – AFC Panel FL-1 in Room 212 – Panel schedule

PANEL BOARD: FL1

FED FROM:	
CIR.	LOAD DESCRIPTION
1	KIOSK Panel 404
2	(Paid) Fare Vendor 50 20
3	KIOSK Panel 404A
4	(Paid) Fare Vendor #51 20
5	KIOSK Panel 404B
6	(Free) Fare Vendor #30 20A
7	Fare Gate Console #34 74 20
8	(Free) Gate Vendor #31 20
9	Fare Gate Console #35 15 20
10	(Free) Gate Vendor #32 20A
11	Fare Gate Console #36 16 20
12	(Free) Fare Vendor #33 20
13	Fare Gate Console #37 24 20
14	(Free) Fare Vendor #34 20
15	Fare Gate Console #38 23 20
16	(Free) Fare Vendor #35 20
17	Fare Gate Console #39 27 20
18	Future Fare Vendor #40
19	Fare Gate Console #41
20	Future Fare Vendor #42 Smart Trip
21	Fare Gate Console #43
22	Future Fare Vendor #44
23	Fare Gate Console #45
24	Future Fare Vendor #46
25	Fare Gate Console #47
26	Smart Trip #48
27	Fare Gate Console #49 17 20
28	Smart Trip #50
29	Fare Gate Console FUTURE #45
30	
31	Future Fare Gate Console #46
32	Spare
33	Future Fare Gate Console #31
34	Spare
35	PIDS Fare Gate Console #35 PIDS
36	Spare
37	Future Fare Gate Console #33
38	Space Term. Box - MULTIMEDIA

Pictures 13&14: K06 West Falls Church – Common trough in Room 212



Picture 15: K06 West Falls Church – Control switch panel into common trough in Room 212



Pictures 16&17: K06 West Falls Church – Panels MHI & ML2 into common trough in Room 212



Pictures 18&19: K06 West Falls Church – Panels MLI & MMLI into common trough in Room 212



Picture 20: K06 West Falls Church – Panel POH2 into common trough in Room 212



Pictures 21&22: K06 West Falls Church – Switchboards AC-1 Secondary & AC-2 Secondary in Room 106



Picture 23: K06 West Falls Church – Essential switchboard in Room 106



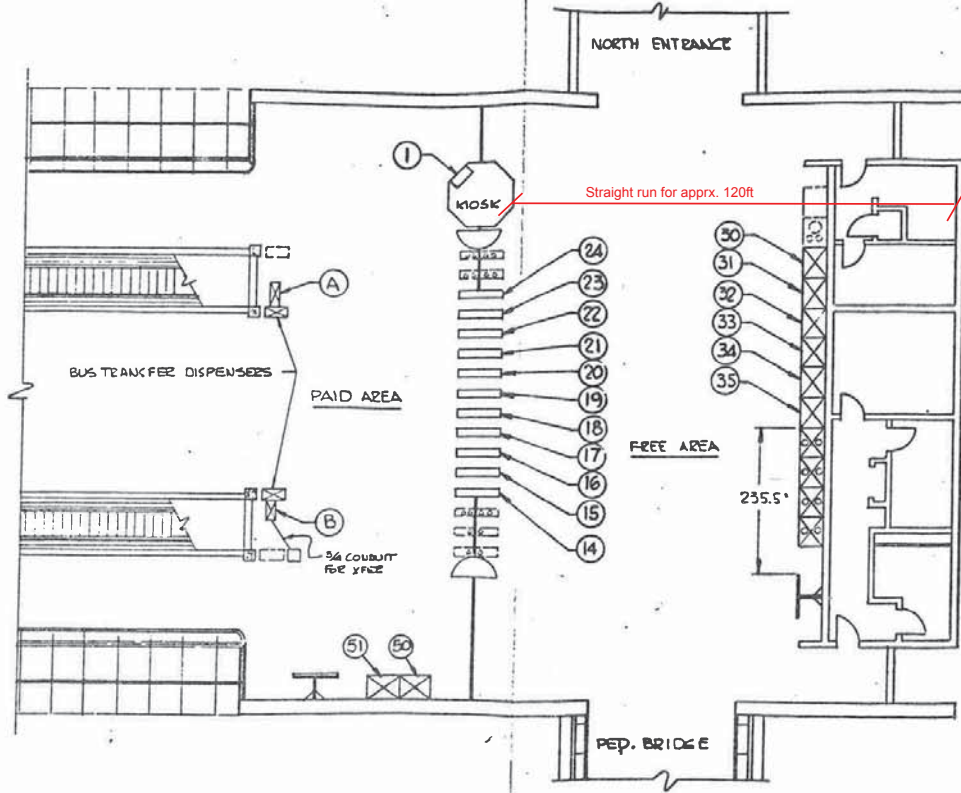
Pictures 24&25: K06 West Falls Church – Panel board breakers FL-1 & MH-1 in Room 106



Picture 26: K06 West Falls Church – Panel board breaker POH2 in Room 106



Pre-Inspection Field Verification 11/20/2014



MACHINE				SERIAL NUMBER		CIRCUIT BREAKER		WIRE	
NO.	TYPE	SN	SN	NO.	NO.	SIZE	AWG		
1	XFER DISPENSER	SN 8640	1	KIOSK	22				
2	XFER DISPENSER	SN 8633	2	KIOSK	23	FG 22			
3	EDADS	DS 8060	3	KIOSK	24				
4	EXIT GATE	GX 45 34	4	KIOSK	25	FG 23			
5	REV. GATE	GR 7500	5	KIOSK	26				
6	REV. GATE	GR 7249	6	FV#30	27	FG 24	VHS 10GA		
7	REV. GATE	GR 7059	7	REV#44	28		GATE 8GA		
8	REV. GATE	GR 7521	8	FV 31	29		FUTURE	APM 8GA	
9	REV. GATE	GR 7527	9	GATE#18	30		XPER#1		
10	REV. GATE	GR 7568	10	FV 32	31		FUTURE		
11	REV. GATE	GR 7564	11	FV 33	32				
12	REV. GATE	GR 7039	12	FV 34	33				
13	REV. GATE	GR 7562	13	FV 35	34				
14	REV. GATE	GR 7562	14	FV 36	35				
15	ENTRY GATE	SN 5557	15	FV 38	36		FUTURE		
16	FARECARD PAID	FV 1729	16	FV 18	37				
17		FV 1272	17	FV 19	38				
18		FV 1292	18	FV 20	39				
19		FV 1285	19	FV 21	40				
20		FV 1282	20	FV 22	41				
21	ADD FARE	AM 2710	21	FV 23	42				
22	ADD FARE	AM 2708							

M WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED (RESUBMITTAL NOT 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: _____
 For Contracting Officer

DATE: _____

MEZZANINE PLAN

CP2007E-103-1-1



INSTALLATION AS BUILT

CONTRACT NUMBER: 926-0455
 DRAWING NUMBER: 926-0455
 SHEET 1 OF 1
 TITLE: WEST FALLS CHURCH STATION INSTALLATION PLAN
 CODE IDENT NO: 57560
 PROJECT NO: 926-0455
 DATE: 11/20/2014
 BY: _____
 CHECKED: _____
 REVISION: _____
 SCALE: _____
 PROJECT: _____
 DRAWING: _____
 SHEET: _____

Pre-Inspection Field
Verification 11/20/2014

EXISTING PANEL "FLI" ✓											
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE							
MAINS: 225A MCB		PHASE: 3		LOCATION: ELEC. EQUIPMENT ROOM 240 212							
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1							
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CKT.	CKT BKRS	NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXIST. KIOSK LOAD CENTER (KES)	2.9	40	3	1	A - -	2	1	20	0.8		EXISTING VENDOR
	2.5	-	-	3	- B -	4	1	20	0.8		EXISTING VENDOR
	2.5	-	-	5	- - C	6	1	20	0.8		EXISTING VENDOR
✓ 1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	7	A - -	8	1	20	0.8		EXISTING VENDOR
✓ 182 SPARE (KIOSK)	0.0	20	1	9	- B -	10	1	20	0.8		EXISTING VENDOR
EXISTING VENDOR	0.0	20	1	11	- - C	12	-	-	0.0		SPACE
EXISTING VENDOR	0.0	20	1	13	A - -	14	-	-	0.0		SPACE
EXISTING VENDOR	0.8	20	1	15	- B -	16	-	-	0.0		SPACE
EXISTING VENDOR	0.0	20	1	17	- - C	18	1	20	0.8		EXISTING VENDOR
EXISTING VENDOR	0.0	20	1	19	A - -	20	1	20	0.0		SPACE
EXISTING VENDOR	0.0	20	1	21	- B -	22	1	20	0.8		EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.0		SPACE
EXISTING VENDOR	0.0	20	1	25	A - -	26	1	20	0.8		EXISTING VENDOR
EXISTING VENDOR	0.0	20	1	27	- B -	28	1	20	0.0		SPACE
SPARE	0.8	20	1	29	- - C	30	1	20	0.0		SPACE
SPARE	0.8	20	1	31	A - -	32	1	20	0.0		SPACE
SPARE	0.8	20	1	33	- B -	34	1	20	0.0		SPACE
SPARE	0.0	20	1	35	- - C	36	1	20	0.8		EXISTING VENDOR
SPARE	0.0	20	1	37	A - -	38	1	20	0.8		EXISTING VENDOR
SPACE	0.0	-	-	39	- B -	40	-	-	0.0		SPACE
SPACE	0.0	-	-	41	- - C	42	-	-	0.0		SPACE
SPACE	0.0	-	-	43	A - -	44	-	-	0.0		SPACE
SPACE	0.0	-	-	45	- B -	46	-	-	0.0		SPACE

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	3.2 x 50%	1.6 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	20.7 KVA	TOTAL DEMAND KVA 19.9 KVA
		TOTAL DEMAND AMPS 55.1 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	7.7 KVA	
PHASE B:	6.5 KVA	
PHASE C:	6.5 KVA	

- NOTES: A. EXISTING PANEL "FLI" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWBD. "SWBD #1" LOCATED IN AC SWBD 116, CIRCUIT (K06-SWBD1-01) #1-200/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-K-E16).
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 1-12"x12" WIRE TROUGH (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-4" C. (WIRING FILL >40%).
 * 1-3/4" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	11-14 DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	11-14 DATE				
CHECKED	B. IDLBI	11-14 DATE				
APPROVED	N/A					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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



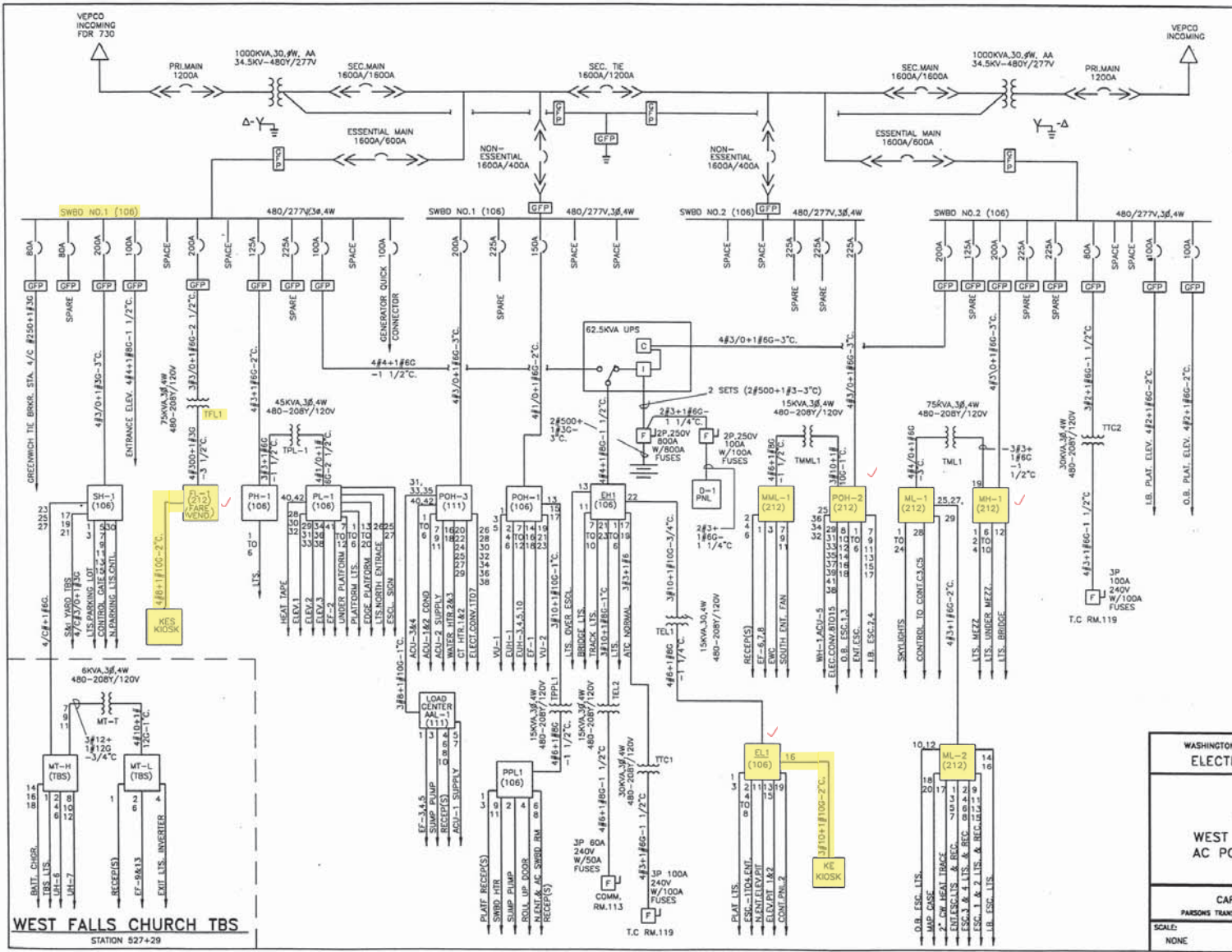
APPROVED _____

SUBMITTED _____
PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
WEST FALLS CHURCH
PANEL SCHEDULE

SCALE
NOT TO SCALE

DRAWING NO.
K06-E-102



- NOTES:**
- PANEL DESIGNATION
 - PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 - ROOM NUMBER
 - B (CIRCUIT NUMBER)
 - 3/2, 2" C CONIT SIZE
 - AWG OR KCMIL CIRCUIT WIRES (AS TAKEN FROM AS BUILT DWGS.)
 - CIRCUIT BREAKERS
 - DRAW OUT ←→ 1600A/1200A
 - FRAME SIZE CONTINUOUS CURRENT SETTING
 - SWITCHGEAR INFORMATION
 - MANUFACTURER: FEDERAL PACIFIC ELECTRIC
 - PLANT CODE: ATL S.O. 81-2-142
 - UPS MANUFACTURER: INTERNATIONAL POWER MACHINE
 - ROOM DESIGNATIONS
 - PLATFORM
 - 106 - AC SWBD ROOM
 - 108 - BATTERY ROOM
 - 110 - ELEVATOR ROOM
 - 111 - O.B. ELECTRIC ROOM
 - 113 - O.B. COMMUNICATION ROOM
 - 115 - O.B. MECHANICAL EQUIP. ROOM
 - 117 - U.S. MECHANICAL EQUIP. ROOM
 - 119 - I.B. TRAIN CONTROL ROOM
 - MEZZANINE
 - 212 - ELECTRIC ROOM

Pre-Inspection Field Verification 11/20/2014

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP


VIENNA ROUTE
WEST FALLS CHURCH STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE DRAWING No. MM-K-E16

WEST FALLS CHURCH TBS
STATION 527+29

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/20/2014	Station Name: Dunn Loring - K07	Mezzanine #: 102	Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: Essential SWBD ES-2 Source Breaker Name/Number: "T-4" (Breaker #4) Electrical AFC Panel Name/Number: ESF-1	Rm 111 Rm 111 Rm 301	
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		PLNT required for two handholes by faregates for scoping.
<input checked="" type="checkbox"/>	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. Straight shot from AFC panel to Kiosk. Apprx. 35ft run.
Emergency Power Verification				
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: EMM-2 Source Breaker Name/Number: Breaker #4 Panel Name/Number: KE (Kiosk Emergency Panel)	Rm 301 Rm 301 Kiosk	
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	11/20/2014			

Picture 1: K07 Dunn Loring – Handholes in Mezzanine



Picture 2: K07 Dunn Loring – Handholes in Mezzanine



Picture 3: K07 Dunn Loring – Emergency panel EMM-2 in Room 301



Pictures 4: K07 Dunn Loring – Emergency panel EMM-2 in Room 301 - Breaker 4



Pictures 5: K07 Dunn Loring – Emergency panel EMM-2 in Room 301 - Panel schedule

EMM-2	
120-208 100A	
1 Skylights Mezz & Canopy	2 <i>MAIN BKR.</i> Kiosk Panel
3 " "	4 <i>KIOSK PANEL</i> ESC. PIT LTS #2
5 " "	6 Spare
7 Spare	8 Spare
9 Spare	10 ESC. PIT LTS. #1

Picture 6: K07 Dunn Loring – AFC Panel ESF-1 in Room 301



Picture 7: K07 Dunn Loring – AFC Panel ESF-1 in Room 301 – Bottom duct and conduits



Picture 8: K07 Dunn Loring – AFC Panel ESF-1 in Room 301 – Panel schedule

ESF-1

17	HEAT	2	Gate #22
3		4	Gate #21
5		6	Gate #20
7	SPARE	8	Gate #19
9	FV #30	10	Gate #18
11	FV #31	12	Gate #13
13	FV #33	14	BLANK
15	FV #32	16	Gate #11
17	FV #34	18	Gate #10
19	AM #50	20	Gate #12
21	AM #51	22	SMARTTRIP 1
23	BLANK	24	SMARTTRIP 2
25	XFER #1	26	SMARTTRIP (FUTURE)
27	XFER #2	28	PIDS mezz.
29	SPARE	30	Rec Above Vendo
31	SPARE		
	BLANK		
↓	↓	↓	↓
41	BLANK	42	SPARE

Picture 9: K07 Dunn Loring – AFC source breaker 'T-4' in Room 111



Picture 10: K07 Dunn Loring – Essential SWBD ES-2 in Room 111



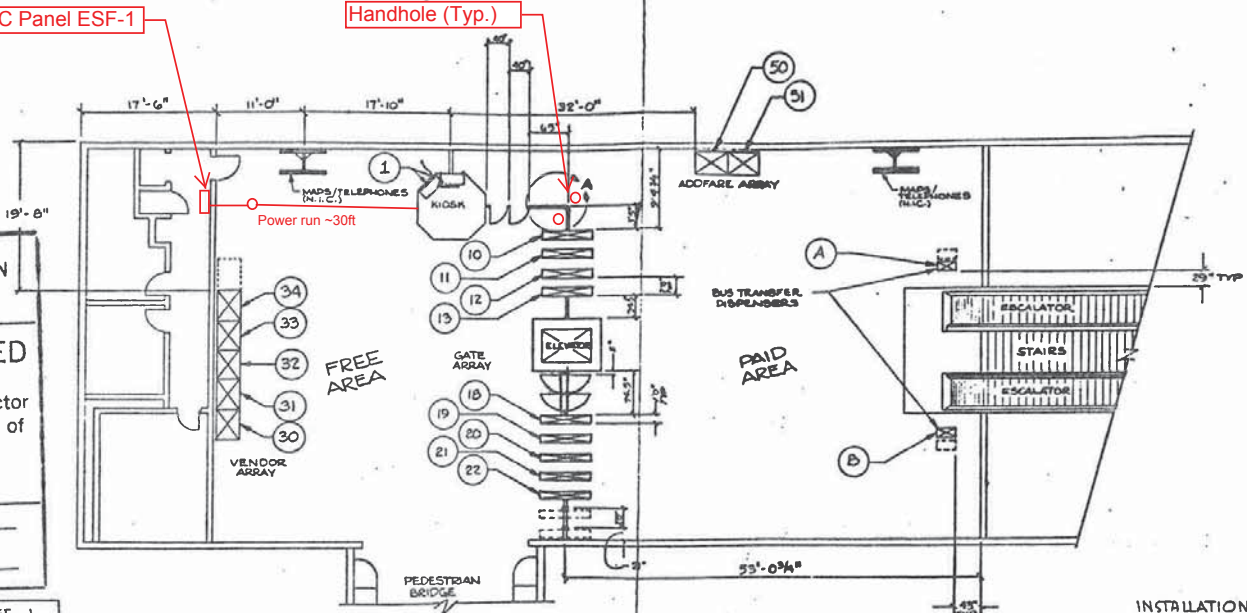
Pre-Inspection Field Verification 11/20/2014

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED AS CORRECTED (RESUBMITTAL NOT REQUIRED)
Approval Does Not Relieve the Contractor of the Responsibility for the Accuracy of this Document or for Full Compliance with the Contract Requirements.

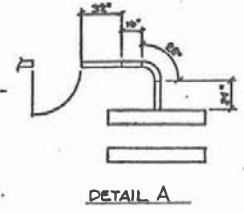
BY: _____
For Contracting Officer
DATE: _____

POSITION NUMBER	MACHINE TYPE	SERIAL NUMBER	PANEL * ESF-1	
			CIRCUIT BREAKER NUMBER	WIRE SIZE (AWG)
A	XFER DISPENSER	6634	1	22
D	AREA DISPENSER	6631	4	22
1	EDADS	DS8903	9	24
10	EXIT GATE	GX 4505	4	FG 21
11	REV GATE	6R 7518	5	FG 27
12	REV GATE	6R 7319	6	FG 20
13	ENTRY GATE	GN 3502	7	FV 34
18	EXIT GATE	GX 4508	8	FG 19
19	REV GATE	6R 7511	9	FV 30
20	REV GATE	6R 7507	10	FG 18
21	REV GATE	6R 7516	11	FV 34
22	ENTRY GATE	GN 3534	12	FV 34
30	FARECARD VEND	FV 1731	13	FV 33
31	"	FV 1143	14	FV 35
32	"	FV 1179	15	FV 22
33	"	FV 1173	16	FG 11
34	"	FV 1345	17	FV 34
50	ADDFARE	AM 2706	18	FG 10
51	"	AM 2707	19	AM 30
			20	FG 12
			21	AM 51
			22	AM 51



MEZZANINE PLAN

1. DELETE SERVICE GATES BY ELEVATOR
2. RE-LOCATE EDADS IN KIOSK
3. FARE GATE No. 22 ON CIRCUIT BREAKER No. 2



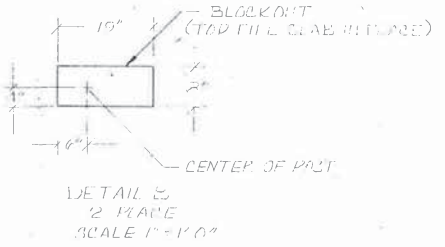
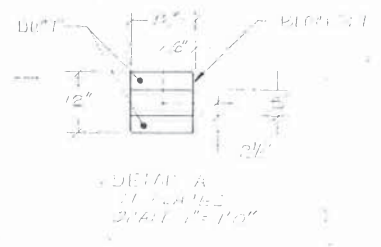
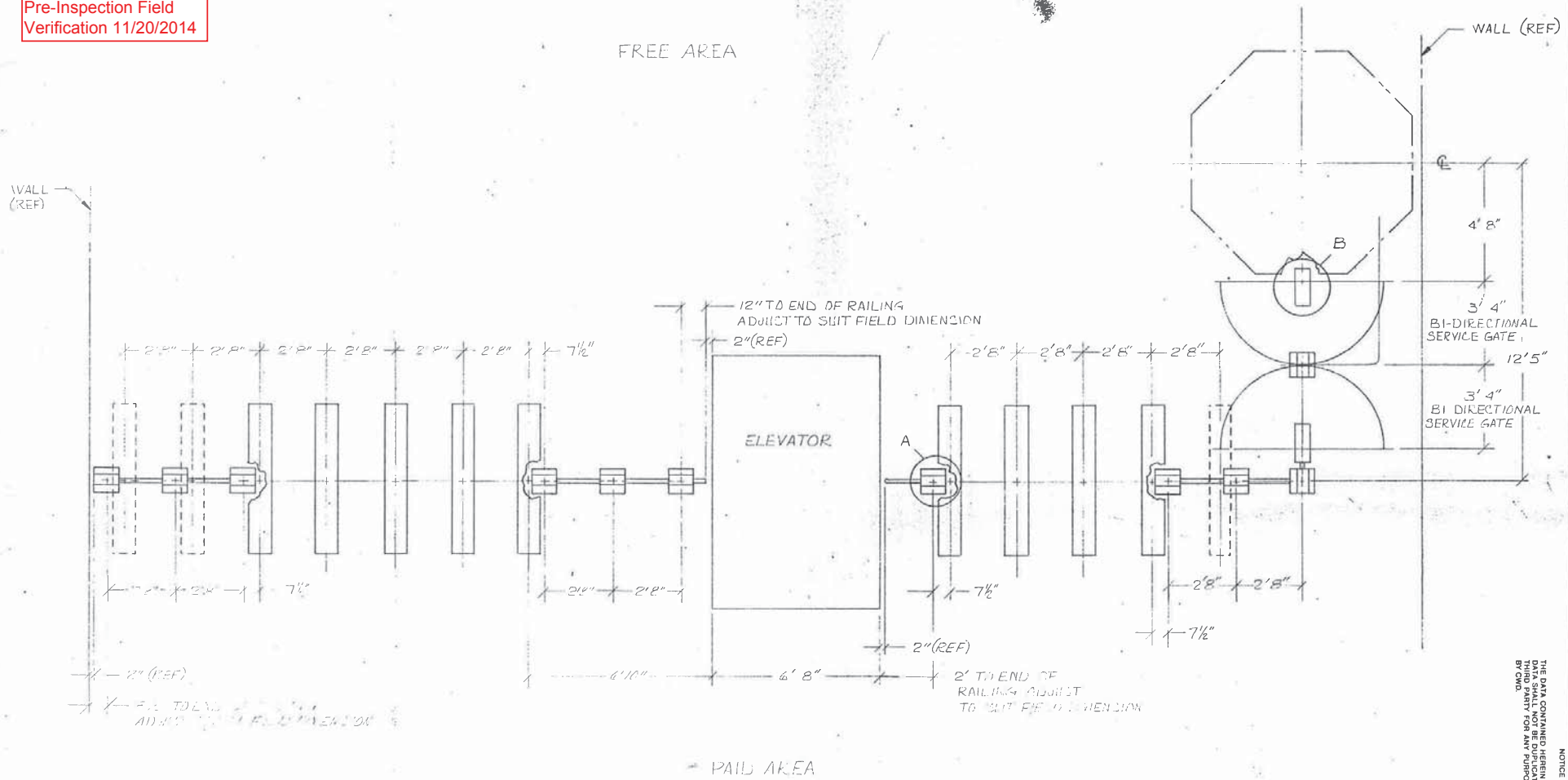
CP-23007E-104-1-1

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CONTRACT NUMBER: 926-0458
DRAWING NUMBER: 926-0458
SHEET OF: 17
TITLE: DUNN LORING STATION INSTALLATION PLAN
CODE IDENT NO: 57560
DATE: 11/20/2014

Pre-Inspection Field Verification 11/20/2014



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100:1 TO 3:1	100:1 TO 3:1

102

Pre-Inspection Field
Verification 11/20/2014

EXISTING PANEL "ESF-1" ✓										
AMPERES: 175		VOLTS: 120/208		MOUNTING: SURFACE						
MANS: 175A MCB		PHASE: 3		LOCATION: FIRE EQUIPMENT CABINET ROOM 301 ✓						
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	CKT NO.	CKT NO.	CKT BKRS	AMP	KVA	LOAD DESCRIPTION	
EXISTING LOAD CENTER "KES"	2.9	40	3	1	A - -	2	1	20	0.8	EXISTING VENDOR
	2.5	-	-	3	- B -	4	1	20	0.8	EXISTING VENDOR
	2.5	-	-	5	- - C	6	1	20	0.8	EXISTING VENDOR
SPARE	0.0	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	SPACE
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.0	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.0	EXISTING VENDOR
SPACE	0.0	-	-	23	- - C	24	1	20	0.0	EXISTING VENDOR
✓ 1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	25	A - -	26	1	20	0.0	EXISTING VENDOR
18.2 SPARE (KIOSK)	0.0	20	1	27	- B -	28	1	20	0.0	EXISTING VENDOR
SPARE	0.0	20	1	29	- - C	30	1	20	0.0	EXISTING VENDOR
SPARE	0.0	20	1	31	A - -	32	1	20	0.0	SPACE
SPACE	0.0	-	-	33	- B -	34	1	20	0.0	SPACE
SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE
SPACE	0.0	-	-	37	A - -	38	-	-	0.0	SPACE
SPACE	0.0	-	-	39	- B -	40	-	-	0.0	SPACE
SPACE	0.0	-	-	41	- - C	42	-	-	0.0	SPACE

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P C.B.
2. C.B. 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	4.0 x 50%	2.0 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	21.5 KVA	TOTAL DEMAND KVA 20.3 KVA
		TOTAL DEMAND AMPS 56.3 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	7.7 KVA	
PHASE B	7.3 KVA	
PHASE C	6.5 KVA	

"Essential SWBD ES-2"

Breaker "T-4" (Breaker #4)

NOTES: A. EXISTING PANEL "ESF-1" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWBD. "ES-2" LOCATED IN AC SWBD 111, ✓
CIRCUIT (K07-ES2-03) #3-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-K-E23).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-6 1/2" x 1 1/2" FLOOR DUCTS (WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >40%).
* 1-4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 2-3/4" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	11-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	11-14				
CHECKED	B. IDLBI	11-14				
APPROVED	N/A					

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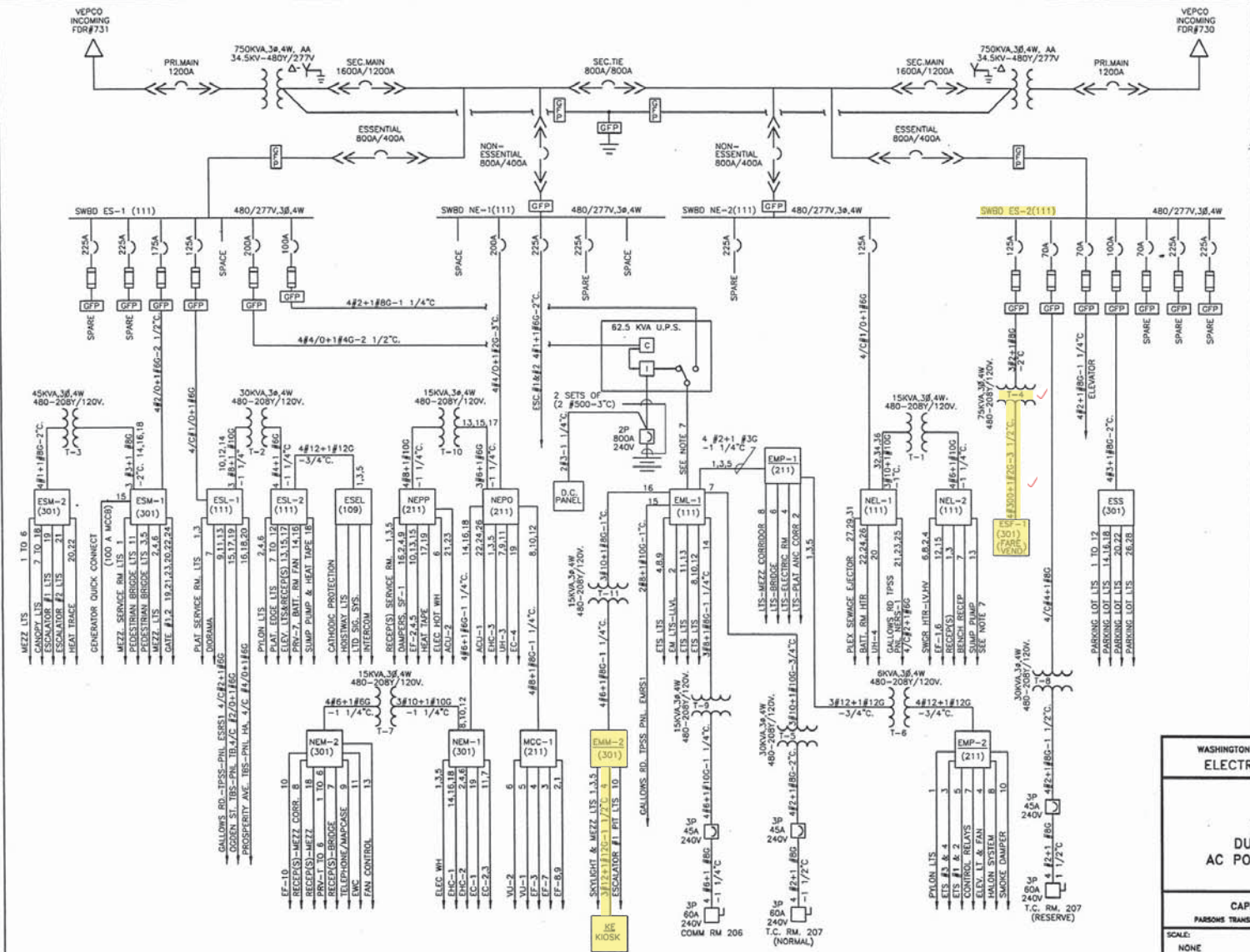
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
DUNN LORING
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO. K07-E-102



- NOTES:
- PANEL DESIGNATION
 - PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 - ROOM NUMBER
 - Ø (CIRCUIT NUMBER)
 - 3Ø2, 2°C CONDUIT SIZE
 - AWG OR KCMIL CIRCUIT WIRES (AS TAKEN FROM CONTRACT DWGS.)
 - CIRCUIT BREAKERS
 - DRAW OUT ← 1600A/1200A
 - FRAME SIZE CONTINUOUS CURRENT SETTING
 - SWITCHGEAR INFORMATION: MANUFACTURE-ITE S.S. #180767 TYPE RC II
 - UPS MANUFACTURER INTERNATIONAL POWER MACHINE
 - ROOM DESIGNATIONS
 - LOWER LEVEL
 - 103 OPERATIONS RM
 - 105 WATER SERVICE & EJECTOR
 - 109 ELEVATOR MACHINE RM
 - 111 A.C. SWITCHBOARD RM
 - 113 BATTERY RM
 - PLATFORM LEVEL
 - 205 CLEANER'S RM
 - 206 COMMUNICATION RM
 - 207 TRAIN CONTROL RM
 - 209 MECHANICAL RM
 - 211 ELECTRIC RM
 - MEZZANINE LEVEL
 - 301 CORRIDOR WITH WALL MOUNTED ELEC. PANELS AND XFMRs

Pre-Inspection Field Verification 11/20/2014


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

VIENNA ROUTE
DUNN LORING STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE DRAWING No. MM-K-E23

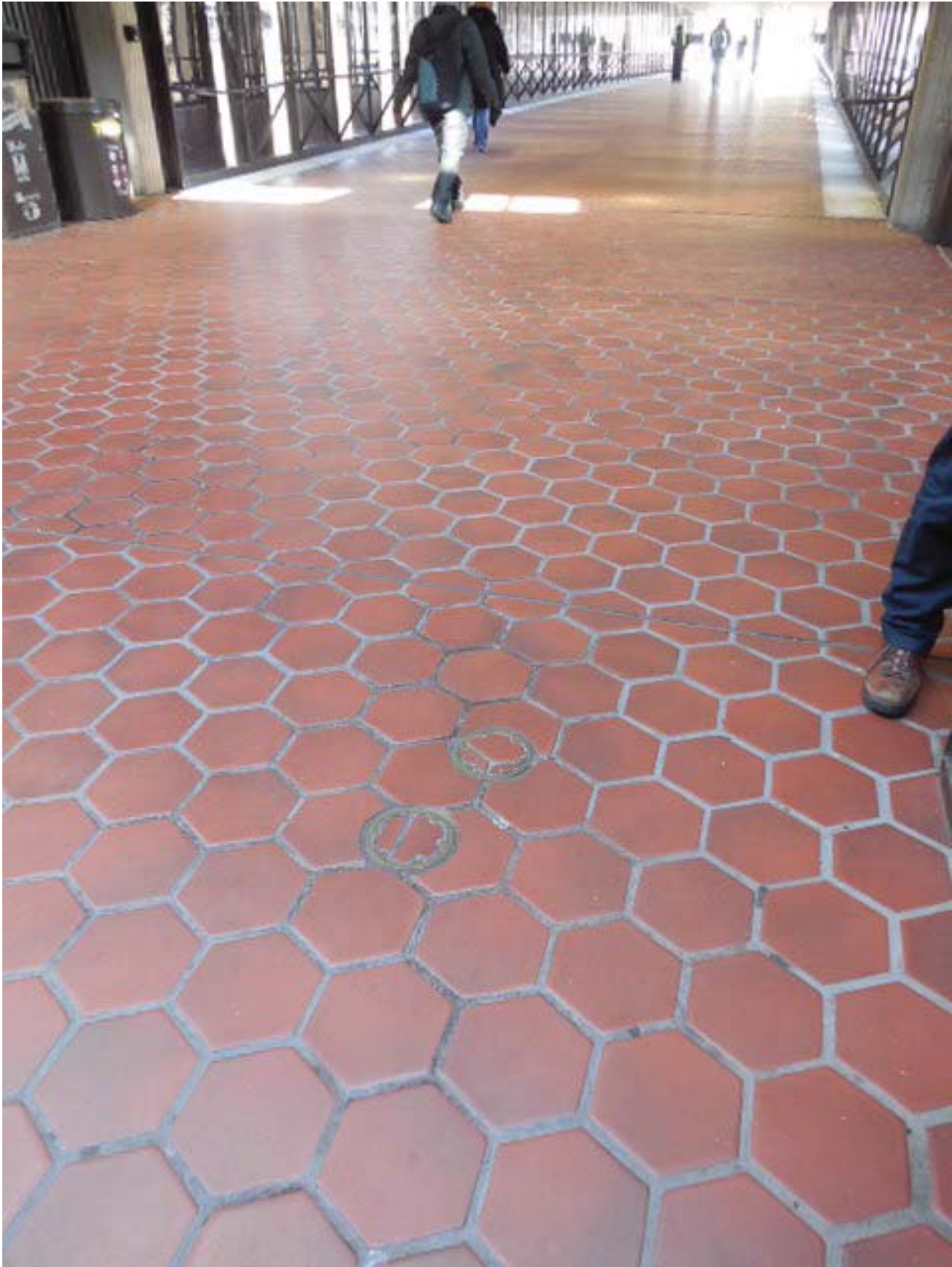
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/20/2014		Station Name: Vienna - K08		Mezzanine #: 103		Completed By: Tino Sahoo	
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number:	ESS Main-2/ES-2	Rm 106	As-built shows SWBD labeled as ES-2, but in field it is labeled as ESS Main-2.		
		Source Breaker Name/Number:	"TRANSF T-6 125A"	Rm 106			
		Electrical AFC Panel Name/Number:	ESLFMV	Rm 406			
<input checked="" type="checkbox"/>	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				
<input checked="" type="checkbox"/>	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				
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/>					
		Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	YES (see notes)		All conduits/ducts on one level.		
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:	ELIV1	Rm 202			
		Source Breaker Name/Number:	Breaker #6	Rm 202			
		Panel Name/Number:	KE (Kiosk)	Kiosk			
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:	Tino Sahoo						
Signature:							
Date:	11/20/2014						

Picture 1: K08 Vienna – Handholes in Mezzanine



Picture 2: K08 Vienna – Handholes in Mezzanine



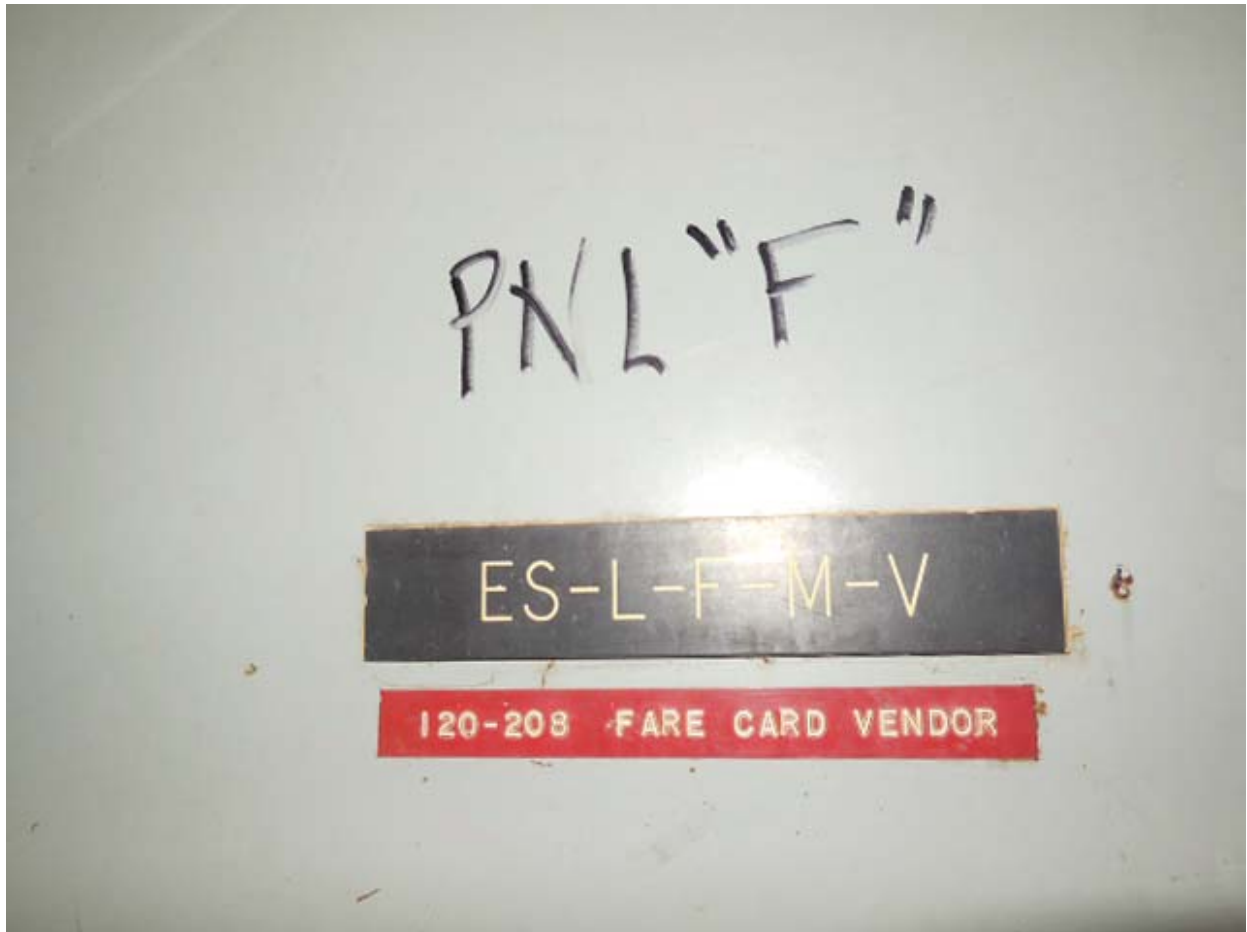
Picture 3: K08 Vienna – Emergency panel ELIVI in Room 202



Pictures 4: K08 Vienna – Emergency panel ELIVI in Room 202 - Breaker 6



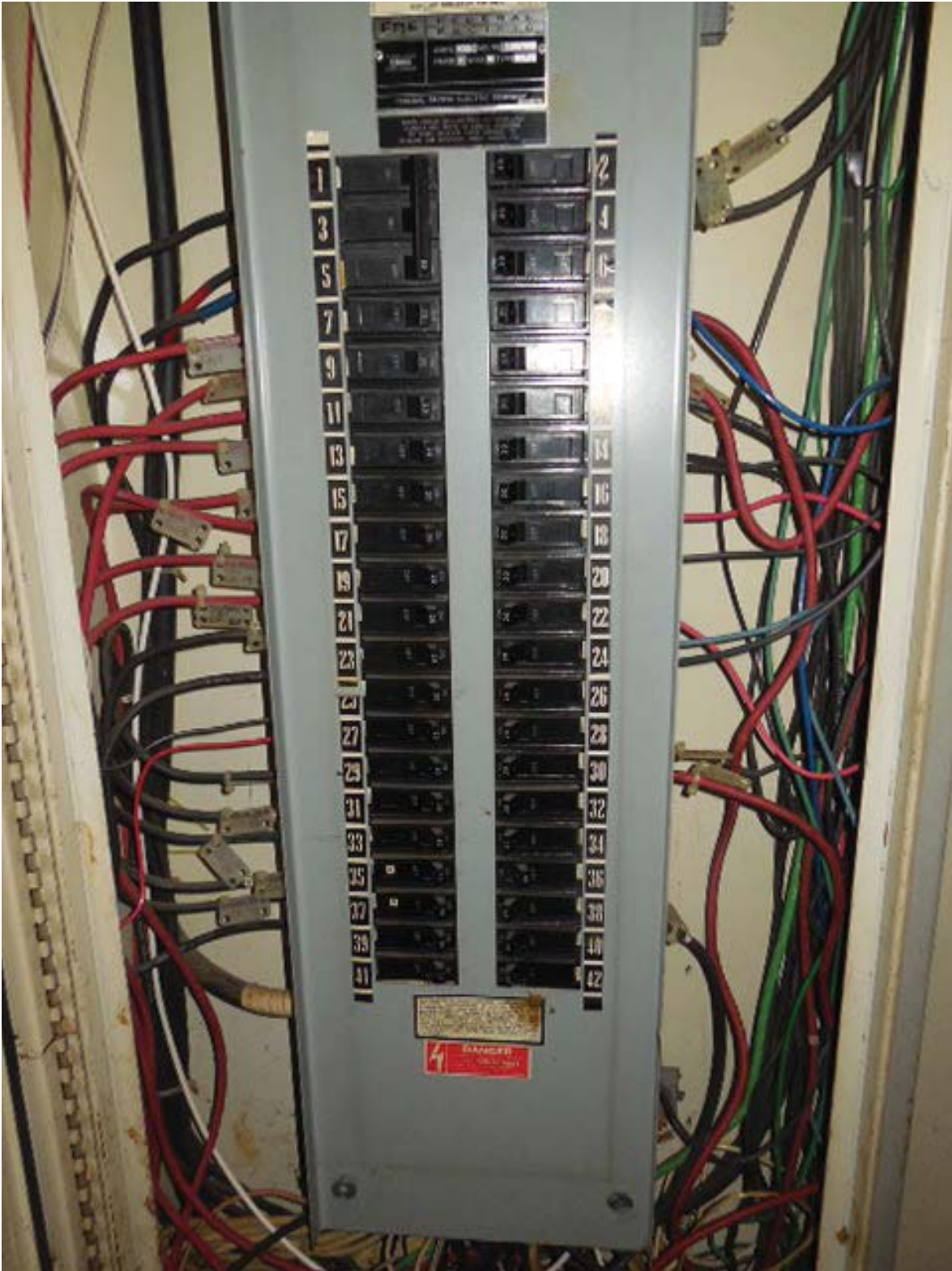
Picture 6: K08 Vienna – AFC Panel ESLFMV in Room 406



Picture 7: K08 Vienna – AFC Panel ESLFMV in Room 406



Picture 8: K08 Vienna – AFC Panel ESLFMV in Room 406



Picture 9: K08 Vienna – AFC Panel ESLFMV in Room 406 – Bottom duct and conduits



Picture 10: K08 Vienna – AFC Panel ESLFMV in Room 406 – Panel schedule

ESL-FMV
 PANEL BOARD: VIENNA

CIRCUIT	LOAD DESCRIPTION
1	SMART CARD VENDOR #30
2	GATE # 20
3	PANEL KES
4	GATE # 21
5	PANEL KES
6	NEW VENDOR #30 ck 20 ADD FARE
7	VENDOR #12 New Park Gate
8	"
9	VENDOR #31 ck
10	FUTURE GATE #11
11	VENDOR #32 ck
12	NEW GATE #12 12
13	VENDOR #33 ck
14	PIDS POWER (MEZZ)
15	VENDOR ck 35
16	VENDOR ck 36
17	VENDOR ck 34
18	VENDOR #37
19	ADD FARE #50 ck 51
20	X SMART CARD VENDOR
21	DISCOUNT FARE #51 ck 52
22	X SMART CARD VENDOR
23	FUTURE VENDOR #38 39 40
24	X SMART CARD VENDOR
25	FUTURE VENDOR #39 38 39
26	Comcast Switch Verizon Bus
27	TV PLUG
28	
29	TV RECP.
30	MEZZ RECP.
31	GATE # 14
32	change New Park Gate
33	GATE # 15
34	"
35	" GATE # 16
36	"
37	" GATE # 17
38	"
39	" GATE # 18
40	VENDOR #38 VENDOR #38
41	" GATE # 19
42	ATM MACHINE

Picture 11 K08 Vienna – Essential SWBD in Room 106



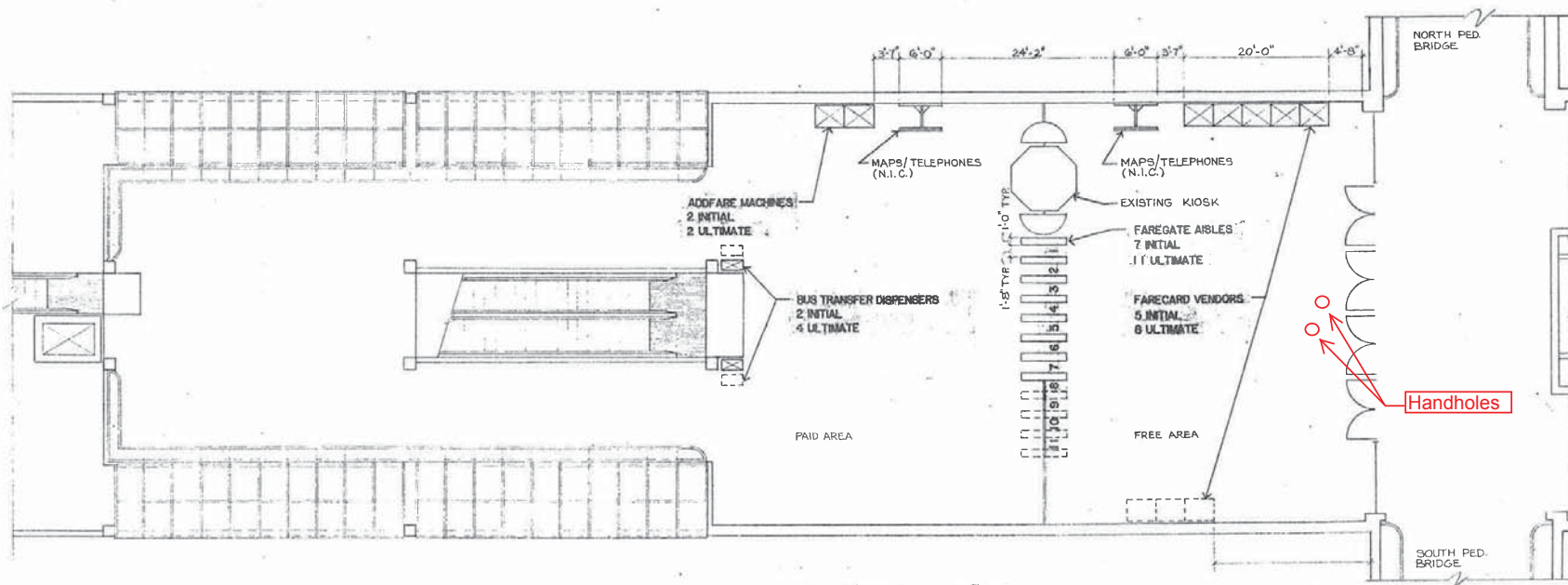
Picture 12 K08 Vienna – ESS Main-2 400A in Room 106



Picture 13 K08 Vienna – TRANSF T-6 125A in Room 106



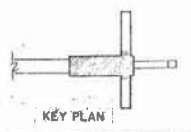
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MEZZANINE PLAN

Room 406 on
mezzanine

Handholes



DESIGNED	HWA	DATE	REFERENCE DRAWINGS		REVISIONS			
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
DRAWN	GBD	11-10-12			7-11-14	KAR	1	EMERGENCY EXIT CENTER ADDED
CHECKED								
APPROVED								

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

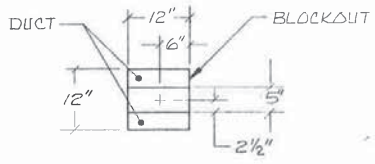
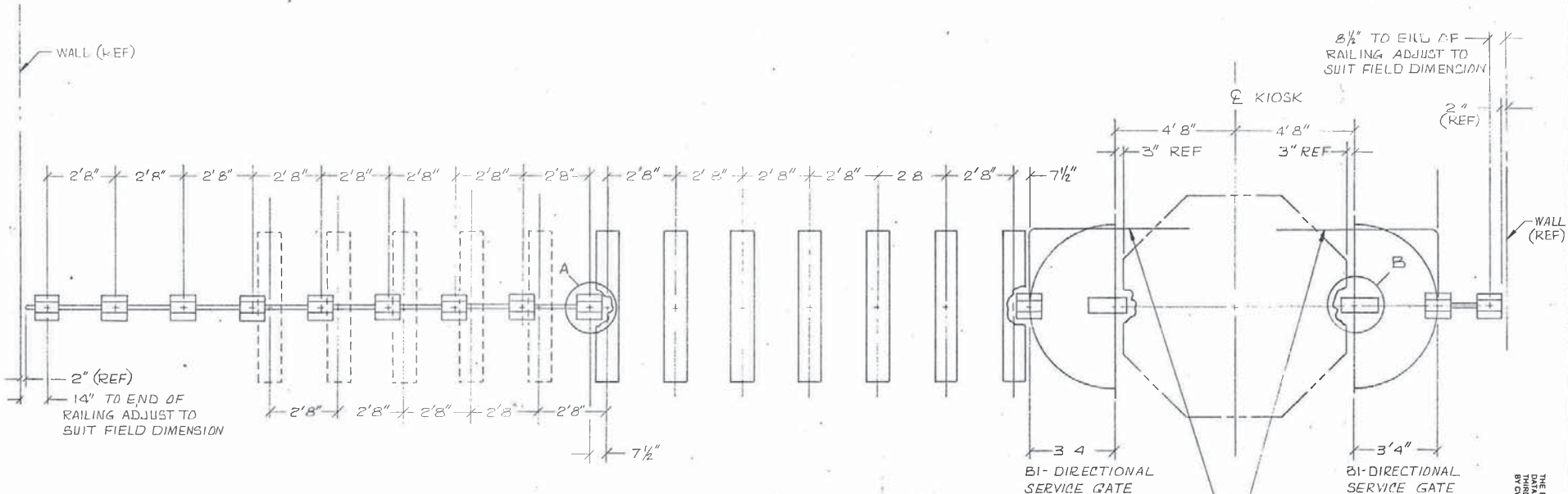
WMATA
APPROVED _____
DIRECTOR OF ARCHITECTURE

DE LEUW, CATHART & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WEEDE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

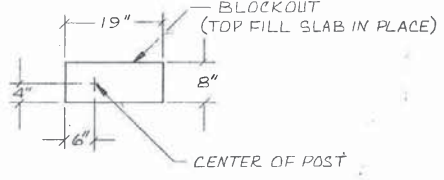
VIENNA STATION
AFC EQUIPMENT LAYOUT

Pre-Inspection Field
Verification 11/20/2014

PAID AREA



DETAIL A
12 PLACES
SCALE 1" = 1'0"



DETAIL B
2 PLACES
SCALE 1" = 1'0"

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TOLERANCES ON DIMENSIONS SHALL BE AS FOLLOWS: DIM. MAX.	926-0456
DECIMALS: .XX ± .03 .XXX ± 0.10	DRAWING NUMBER
FRACTIONS: 1/16" ± .005 1/8" ± .010 1/4" ± .015	SK 926-0456
ANGLES: ± 0.1 DEG.	SHEET 1 OF 1
DATE: 11/20/2014	TITLE
DESIGNER: [REDACTED]	VIENNA SERVICE GATE AND RAILINGS
CHECKER: [REDACTED]	CODE IDENT NO.
DATE: 11/20/2014	57560
PROJECT: [REDACTED]	DRAWN: [REDACTED]
SCALE: [REDACTED]	DATE: 11/20/2014

23007E-105-2-0

Pre-Inspection Field
Verification 11/20/2014

EXISTING PANEL "ESLFM" ✓										
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE						
MAINS: 300A MCB		PHASE 3		LOCATION: ROOM 406 ✓						
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTKT. NO.	CTKT. NO.	CTKT. NO.	CTKT. NO.	KVA	LOAD DESCRIPTION
EXIST. KIOSK LOAD CENTER (KES)	2.9	50	3	1	A - -	2	1	20	0.8	EXISTING VENDOR
	2.5	-	-	3	- B -	4	1	20	0.8	EXISTING VENDOR
	2.5	-	-	5	- C	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A - -	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	- - C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A - -	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A - -	20	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
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	0.0	SPARE
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	8.0	NEW KIOSK RECEPT. (IT & NEPP) 1 ✓
EXISTING VENDOR	0.8	20	1	35	- - C	36	1	20	0.0	SPARE (KIOSK) 1&2 ✓
EXISTING VENDOR	0.8	20	1	37	A - -	38	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	39	- B -	40	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	41	- - C	42	1	20	0.8	EXISTING VENDOR

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

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPT ACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPT ACLES	26.4 x 50%	13.2 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	43.9 KVA	TOTAL DEMAND KVA 31.5 KVA
		TOTAL DEMAND AMPS 87.4 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	12.5 KVA	
PHASE B:	19.3 KVA	
PHASE C:	12.1 KVA	

ESS Main-2

NOTES: A. EXISTING PANEL "ESLFM" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWBD. "ES-2" LOCATED IN AC SWBD 106, CIRCUIT (K06-ES2-06) #6-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-K-E26).

"TRANSF T-6
125A"

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

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	11-14 DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	11-14 DATE				
CHECKED	B. IDLBI	11-14 DATE				
APPROVED	N/A					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

GFP A Gannett Fleming/Parsons
JOINT VENTURE

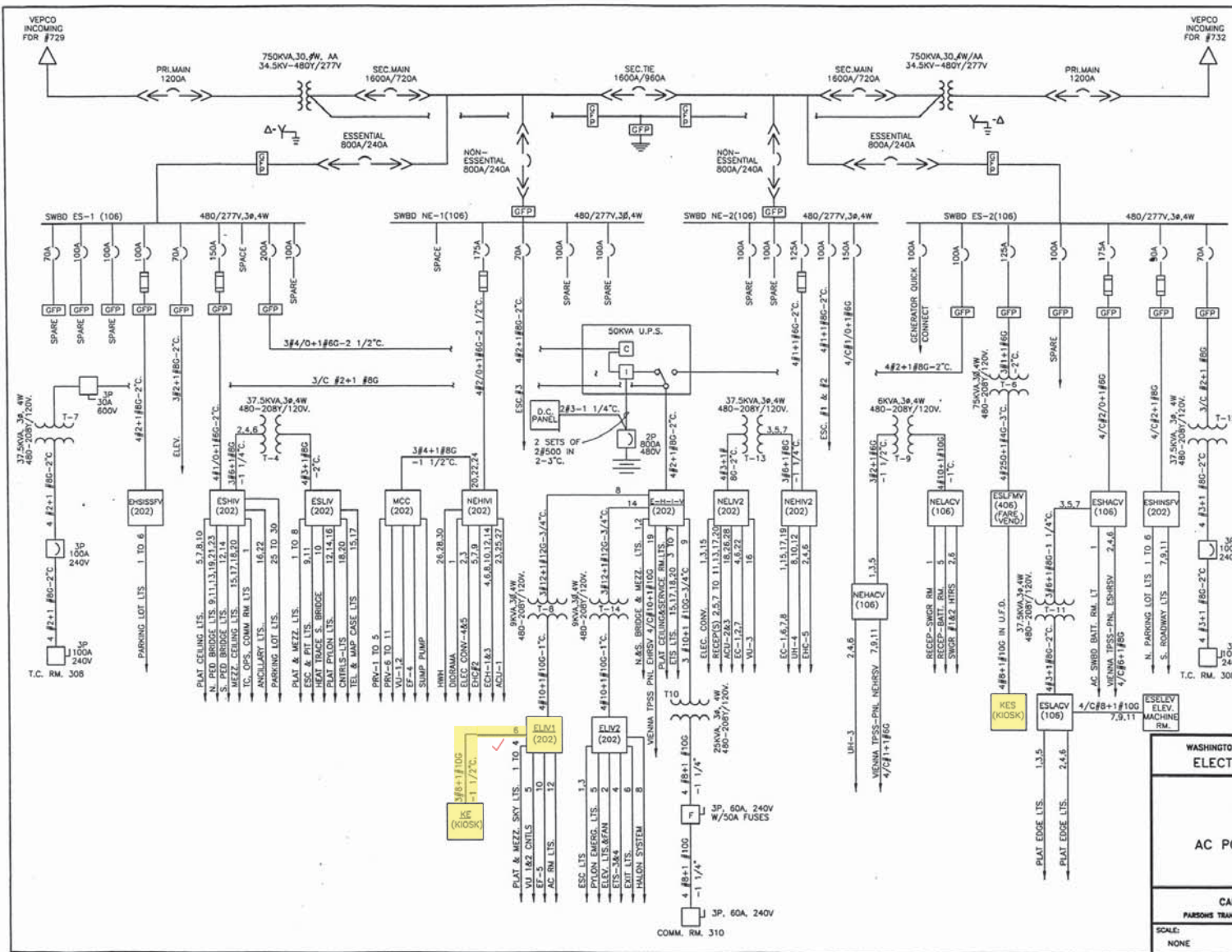
APPROVED _____ SUBMITTED _____
PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRO RAIL STATIONS

VIENNA
PANEL SCHEDULE

SCALE: NOT TO SCALE

DRAWING NO.
K08-E-102



- NOTES:**
1. PANEL DESIGNATION
PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
ROOM NUMBER
8 (CIRCUIT NUMBER)
 2. 3/2, 2" CONDUIT SIZE
AWG OR KCMIL CIRCUIT WIRES (AS TAKEN FROM AS BUILT DWGS.)
 3. CIRCUIT BREAKERS
DRAW OUT ← → 1600A/1200A
FRAME SIZE CONTINUOUS CURRENT SETTING
 4. SWITCHGEAR MANUFACTURER:
MANUFACTURER: FEDERAL PACIFIC ELECTRIC
S.O. #1683-070-2015
 5. UPS MANUFACTURER:
INTERNATIONAL POWER MACHINE
 6. ROOM DESIGNATIONS:
104 BATTERY RM. -LOWER LEVEL
106 A.C. SWITCHBOARD RM. -LOWER LEVEL
200 MECH. RM. -INTERMEDIATE LEVEL
202 ELEC. RM. -INTERMEDIATE LEVEL
308 TRAIN CONTROL RM. -PLATFORM
310 COMMUNICATION RM. -PLATFORM
312 OPERATION RM. -PLATFORM
406 CLEANERS RM. -MEZZANINE
414 MECH. RM. -MEZZANINE

Pre-Inspection Field Verification 11/20/2014

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**VIENNA ROUTE
VIENNA STATION
AC POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE DRAWING No. **MM-K-E26**