



June 15, 2023

RESPONSE LETTER NO. 4 TO REQUEST FOR INFORMATION

Project Title: **Unit Substation Equipment Replacement – Phase 1**
Project No.: **TP-0000008861 (MCC 7040 Plan)**

Questions from Mr. Noel Melo, Request for Information dated June 13, 2023, 10:58 AM. Please see attachment.

QUESTION: 1) Please provide feeder schedule for the following stations:

- Dadeland South
- Dadeland North
- South Miami
- University
- Lehman Center 1 and 2

RESPONSE: 1) Feeder schedule for the stations are attached under this RFI No. 4.

QUESTION: 2) Please provide wiring detail between switch board and tie breaker located at switch board A (only the stations that switch board A and switch board B are separated).

RESPONSE: 2) Blueprints are available at Lehman Center for inspection, please contact Ian Pereira at, ian.pereira@miamidade.gov for more information and to coordinate a visit for inspection. Auto Throwover tie breaker diagram was provided as an attachment under RFI no. 3.

QUESTION: 3) Please advise if ATS #3 is located in the train control room.

RESPONSE: 3) Yes, ATS #3 is located in the train control room.

QUESTION: 4) Please reevaluate the option of replacing one switchboard at a time, especially South Miami that only has a double door. I anticipate that both switch boards need to be removed in order to install switchboard A first and then switch board B. please advise.

RESPONSE: 4) There will be no changes to the installation scenario described in the bid documents. Metrorail Stations cannot be taken out of service while equipment is being replaced. Contractor is responsible for door measurements.

QUESTION: 5) Please confirm if ATS #2 is controlling the load for a fire pump (this description is not shown in the plans).

RESPONSE: 5) ATS#2 won't be replaced. Only ATS#1 and ATS#3 are being replaced as mentioned in the bid documents. As a clarification, note that there is no ATS replacement required at the Lehman Center.



QUESTION: 6) Please confirm that contractor will need one electrical permit per station. Please advise if permit fees will be paid by the owner with the allowance account.

RESPONSE: 6) Contractor is responsible for determining permit requirements as mentioned in bid documents. Contractor must include in the bid submittal the cost of the permits and any permit fees. No separate payment will be made to the Contractor for permits.

QUESTION: 7) Will the owner provide generators to keep all circuits energized for all stations?
Scenario A – one generator for stations where the switch board A and B are going to be replaced one at a time.
Scenario B – three generators for stations where both switch boards A & B are going to be replaced at the same time. One generator for the station where the work is taking place, one generator for Traction Power Substation, and one generator for the Train Control Room.

RESPONSE: 7) Yes, DTPW will provide a generator as required. There will be no changes to the installation scenario described in the bid documents.

QUESTION: 8) Because of the size of the project, is it possible to go to a second site meeting to go over all the stations?

RESPONSE: 8) Most stations are similar. This question came to late, and it will not be possible at this time.

QUESTION: 9) Are there any signals in this project like breaker position (open / close / energize / de-energize) that are going to be transmitted thru the Scada system, if so, please advise who will be commissioning and verifying those signals back to Central Control Facility.

RESPONSE: 9) Existing SCITC cabinet and functionality will remain in place. I/O list information was provided. The Contractor will be responsible for connecting new equipment to existing SCITC cabinet and verifying functionality back to central control facility.

END OF REQUEST FOR INFORMATION NO. 4

Sincerely,

A handwritten signature in blue ink, appearing to read "A. Muñoz".

Alfredo E. Muñoz, P.E.
Chief, Capital Improvements Division
Department of Transportation and Public Works (DTPW)

AM:kf

cc:

Katherine Fernandez, DTPW
Marco Movilla, DTPW

Ian Pereira, DTPW
Laurie Johnson, ISD

Clerk of the Board
Project File

Fernandez, Katherine (DTPW)

From: Statewide Electrical (Noel Melo) <statewideelectrical@yahoo.com>
Sent: Tuesday, June 13, 2023 10:58 AM
To: Fernandez, Katherine (DTPW)
Cc: Clerk of the Board (COC)
Subject: Bid TP-0000008861 Unit Substation Equipment Replacement - Phase I
Attachments: TP-0000008861 RFI - 3RD E-MAIL.pdf

EMAIL RECEIVED FROM EXTERNAL SOURCE

Good morning Mrs. Fernandez,

We hope all is well with you and your family. Please find attached the request for information for the above mentioned project.

Have a great day.

Thank You
Noel Melo

STATEWIDE ELECTRICAL SERVICES, INC
EC 13003367 CSBE 2224 DBE 4130
12905 WEST OKEECHOBEE ROAD BAY # 4 HIALEAH GARDENS , FL 33018
PH 305 592 6965 FAX 305 823 1817 Email statewideelectrical@yahoo.com
Primary Services: *Traffic Signals* Drill Shaft (5 Feet Diameter by 45 Feet in Depth)* Parking Lot,
Roadway & Street Lighting Fixture Pole Installation* Bucket Truck (60 Feet) * Fiber Optics* Electrical*
Crane Services* Fire Alarm* Access Control* CCTV* Design/Build Projects *
President Noel Melo

REQUEST FOR INFORMATION

1. Please provide feeder schedule for the following stations:
 - Dadeland South
 - Dadeland North
 - South Miami
 - University
 - Lehman Center 1 and 2
2. Please provide wiring detail between switch board and tie breaker located at switch board A (only the stations that switch board A and switch board B are separated).
3. Please advise if ATS #3 is located in the train control room.
4. Please reevaluate the option of replacing one switchboard at a time, especially South Miami that only has a double door. I anticipate that both switch boards need to be removed in order to install switch board A first and then switch board B. please advise.
5. Please confirm if ATS #2 is controlling the load for a fire pump (this description is not shown in the plans)
6. Please confirm that contractor will need one electrical permit per station. Please advise if permit fees will be paid by the owner with the allowance account.
7. Will the owner provide generators to keep all circuits energized for all stations?
Scenario A – one generator for stations where the switch board A and B are going to be replaced one at a time.

Scenario B – three generators for stations where both switch boards A & B are going to be replaced at the same time. One generator for the station where the work is taking place, one generator for Traction Power Substation, and one generator for the Train Control Room.

8. Because of the size of the project, is it possible to go to a second site meeting to go over all the stations?
9. Are there any signals in this project like breaker position (open / close / energize / de-energize) that are going to be transmitted thru the Scada system, if so, please advise who will be commissioning and verifying those signals back to Central Control Facility.

Dadeland North feeder schedule for RFI No. 4

ELECTRICAL CONDUIT AND CONDUCTOR SCHEDULE									
Nº	FROM	TO	CONDUIT SIZE TYPE	CONDUCTOR Nº SIZE GND.	DWG Nº	PAGE Nº	REMARKS		
F1	ISKV SWGR. CUBICLE 1	ISKV AIR INTER. SW. A	4" PVC	12-250MCM	12-250	EE03	SPARE		
F2	ISKV SWGR. CUBICLE 1	ISKV AIR INTER. SW. A	4" PVC	12-250MCM	12-250	EE03	SPARE		
F3	ISKV SWGR. CUBICLE 10	ISKV AIR INTER. SW. B	4" PVC	12-250MCM	12-250	EE03	SPARE		
F4	ISKV SWGR. CUBICLE 10	ISKV AIR INTER. SW. B	4" PVC	12-250MCM	12-250	EE03	SPARE		
F5	A.T.S.-1	PANEL "P2"	2" PVC	4-1/0	12-250	EE03	SPARE		
F6	A.T.S.-1	PANEL "P2"	2" PVC	4-1/0	12-250	EE03	SPARE		
F7	SWITCHBOARD "A"	SWITCHBOARD "B"	3" PVC	12-250MCM	3-1/0	EE03	CONDUIT & WIRE TIE		
F8	SWITCHBOARD CKT. A-3	LIGHT CONTROL L.C.1	1 1/2" GR5	4-2	12-250	EE03	SPARE		
F9	LIGHT CONTROL L.C.1	PANEL "L3"	1 1/2" GR5	4-2	12-250	EE03	SPARE		
F10	TRANSFORMER T-4	PANEL "L4"	1 1/2" GR5	4-2	12-250	EE03	SPARE		
F11	SWITCHBOARD CKT. A-4	PANEL "L1"	1 1/2" PVC	4-1	12-250	EE03	SPARE		
F12	SWITCHBOARD CKT. A-5	MCC-1	1" PVC	3-6	12-250	EE03	SPARE		
F13	SWITCHBOARD CKT. A-6	ESCALATOR DISC. SW.	1" PVC	3-6	12-250	EE03	SPARE		
F14	ESCALATOR DISC. SW.	ESCALATOR CONTROLLER	1" GR5	3-6	12-250	EE03	SPARE		
F15	SWITCHBOARD CKT. A-9	A.T.S.-1	2" PVC	4-1/0	12-250	EE03	SPARE		
F16	PANEL "P2"	XFMR. T5	1" GR5	3-6	12-250	EE03	SPARE		
F17	XFMR. T5	PANEL "LL6"	1 1/2" GR5	4-1	12-250	EE03	SPARE		
F18	SWITCHBOARD CKT. A-12	PANEL "P1"	2" PVC	4-1/0	12-250	EE03	SPARE		
F19	PANEL "P1"	XFMR. T1	2" GR5	3-1/0	12-250	EE03	SPARE		
F20	XFMR. T1	PANEL "DD1"	3" GR5	4-400MCM	12-250	EE03	SPARE		
F21	PANEL "DD1"	PANEL "LL1"	1 1/2" PVC	4-4	12-250	EE03	SPARE		
F22	PANEL "DD1"	PANEL "LL2"	1 1/2" PVC	4-4	12-250	EE03	SPARE		
F23	PANEL "DD1"	PANEL "LL3"	1 1/2" PVC	4-4	12-250	EE03	SPARE		
F24	CB-4	A.T.S.-3	2 1/2" GR5	4-250MCM	12-250	EE03	SPARE		
F25	SWITCHBOARD CKT. B-2	400A. RECEPTACLE	2 1/2" PVC	4-250MCM	12-250	EE03	SPARE		
F26	UNIT SUBSTATION "A"	CB-1	2 1/2" PVC	4-250MCM	12-250	EE03	SPARE		
F27	CB-1	A.T.S.-2	3" GR5	3-500MCM	12-250	EE03	SPARE		
F28	UNIT SUBSTATION "B"	CB-2	2 1/2" PVC	4-250MCM	12-250	EE03	SPARE		
F29	CB-2	A.T.S.-2	3" GR5	3-500MCM	12-250	EE03	SPARE		
F30	A.T.S.-2	ELEVATORS PANEL (P3)	3" PVC	3-500MCM	12-250	EE03	SPARE		
F31	ELEVATOR PANEL "P3"	ELEVATOR DISC. SW.	1" PVC	3-6	12-250	EE03	SPARE		
F32	ELEVATOR DISC. SW.	ELEVATOR CONTROLLER	1" GR5	3-6	12-250	EE03	SPARE		
F33	SWITCHBOARD CKT. B-4	PANEL "L2"	2" PVC	4-1/0	12-250	EE03	SPARE		
F34							NOT USED		
F35							NOT USED		
F36							NOT USED		
F37	SWITCHBOARD CKT. B-6	ESCALATOR DISC. SW.	1" PVC	3-6	12-250	EE18	SPARE		
F38	ESCALATOR DISC. SW.	ESCALATOR CONTROLLER	1" GR5	3-6	12-250	EE18	SPARE		
F39							NOT USED		
F40	SWITCHBOARD CKT. B-8	TRANSFORMER T2	1 1/2" PVC	3-1	12-250	EE03	SPARE		
F41	TRANSFORMER T2	CB-5	2 1/2" GR5	4-250MCM	12-250	EE03	SPARE		
F42	CB-5	CB-6	2 1/2" PVC	4-250MCM	12-250	EE03	SPARE		
F43	CB-6	A.T.S.-3	2 1/2" PVC	4-250MCM	12-250	EE03	SPARE		
F44	SWITCHBOARD CKT. B-9	A.T.S.-1	1 1/2" PVC	4-1/0	12-250	EE03	SPARE		
F45	SWITCHBOARD CKT. B-12	PANEL "ED1"	1 1/2" PVC	4-1/2	12-250	EE03	SPARE		
F46	PANEL "ED1"	PANELS "EL1" & "EL2"	3/4" PVC	2-8	12-250	EE03	SPARE		
F47	PANEL "ED1"	PANEL "EL2"	3/4" PVC	2-8	12-250	EE03	SPARE		
F48	SWITCHBOARD CKT. B-8	TRANSFORMER T3	1 1/2" PVC	3-1	12-250	EE03	SPARE		
F49	TRANSFORMER T-3	CB-3	2 1/2" GR5	4-250MCM	12-250	EE03	SPARE		
F50	CB-3	CB-4	2 1/2" PVC	4-250MCM	12-250	EE03	SPARE		
F51	SWITCHBOARD CKT. A-1	TO CONTACTOR "L2"	1 1/2" PVC	4-1	12-250	EE03	SPARE		
F52	CONTACTOR "L2"	PANEL "L4"	1 1/2" GR5	4-1	12-250	EE03	SPARE		
F53	PANEL "L4"	TRANSFORMER T-5	3/4" GR5	3-5	12-250	EE03	SPARE		
F54	TRANSFORMER T-5	PANEL "LL5"	1" GR5	3-5	12-250	EE03	SPARE		
F55	PANEL "ED1"	PANEL "EL3"	3/4" PVC	2-8	12-250	EE03	SPARE		
F56							NOT USED		
F57							NOT USED		
F58	SWITCHBOARD CKT. B-10	PANEL "P4"	2" PVC	4-1/0	12-250	EE03	SPARE		
F59	SWITCHBOARD CKT. B-3	PANEL "L3" (250MCM)	6" PVC	4-1	12-250	EE03	SPARE		
F60	ELEVATOR PANEL "P3"	WORKING STRUCT. ELEV.	2 1/2" GR5	4-1	12-250	EE03	SPARE		
F61	PANEL "ED1"	PANEL "ED2"	5" PVC			EE03	SPARE		
F62							NOT USED		

LESS THAN 25'

TRACTION POWER CONDUIT SCHEDULE									
Nº	FROM	TO	CONDUIT SIZE TYPE	CONDUCTOR Nº SIZE GND.	DWG. Nº	PAGE Nº	REMARKS		
TP1	VAULT RM.	5' BEYOND TP55	2" PVC		EE597	254	F.P.E.L. INCOMING LINE		
TP2									
TP3									
TP4									
TP5	ISKV SWGR. CUBICLE 3	VAULT RM.	4"				ISKV FEEDER		
TP6							SPARE		
TP7							ISKV FEEDER		
TP8							SPARE		
TP9							ISKV FEEDER		
TP10		2 RT-1	4"				CONTROLS		
TP11		2 RT-1	4"				ISKV FEEDER		
TP12		2 RT-2	4"				CONTROLS		
TP13		9 FUTURE RT-3	4"				ISKV FEEDER		
TP14		9 FUTURE RT-3	4"				CONTROLS		
TP15	VAULT RM.	METER RM.	2"				METERING CONDUCTORS		
TP16									
TP17									
TP18	ANNUN. PNL. (M.I.C.)	RT-1							
TP19		RT-2							
TP20		RT-3							
TP21	PANEL "LL6"	RT-1	1"						
TP22		RT-2							
TP23		RT-3							

SUPERVISORY CONTROL CONDUIT AND CONDUCTOR SCHEDULE									
Nº	FROM	TO	CONDUIT SIZE TYPE	CONDUCTOR Nº SIZE GND.	DWG. Nº	PAGE Nº	REMARKS		
SC1	SCITC #1	UNIT SUBSTATION "A"	3/4" PVC	4-14	12-14	EE528	254	TERMINALS 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	
SC2		"A"		4-14	12-14			1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	
SC3		"B"		4-14	12-14			1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	
SC4				4-14	12-14			3, 4, 7, 8, 9, 10, 11, 12, 13, 14	
SC5		HIGH TEMP TSTAT. RM. 108	GR5	2-14				15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	
SC6		HIGH TEMP TSTAT. RM. 108		2-14				45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	
SC7		EXTERNAL FAN CONTROL RELAY		2-14				43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	
SC8		EMERG. PWR. SUPPLY "A"	PVC	4-14	12-14			17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	
SC9		EMERG. PWR. SUPPLY "B"	PVC	4-14	12-14			21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	
SC10	SCITC #2	FAN 5-1 & 5-2 CONTROL RELAY	GR5	2-14		EE597	254	AT TP55	
SC11	SCITC #2	HIGH TEMP TSTAT.		2-14		EE597	254	AT TP55	
SC12	SCITC #1	TC 6 & C. RM.	2"	2-14		EE528	255		
SC13	SCITC #2	TC 6 & C. RM.	2"	2-14		EE528	255		
SC14	SCITC #1	EMERG. PWR. SUPPLY "C"	3/4" GR5	4-14	1-14	EE528	255	TERMINALS 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	
SC15	SCITC #2								
SC16	SCITC #2	FAN 12 CONTROL RELAY 6-2	3/4" GR5	2-14		EE597	254	AT TP 65	

SIGNAL CONDUIT SCHEDULE									
Nº	FROM	TO	CONDUIT SIZE TYPE	CONDUCTOR Nº SIZE GND.	DWG. Nº	PAGE Nº	REMARKS		
S1	STA. ATT. BOOTH	ELEV. INTFC PULL BOX	2" GR5		EE573	256	UNITED STATES RAILROAD		
S2					EE596	259	GREENSBORO STATION		
S3					EE596	259			
S4									
S5	STA. ATT. BOOTH	ESC.#1 INTFC PULL BOX	2" GR5		EE574	256	NOT USED		
S6	STA. ATT. BOOTH	ESC.#2 INTFC PULL BOX	2" GR5		EE574	256	NOT USED		
S7									
S8									
S9	STA. ATT. BOOTH	ROLLUP GRILLE STARTER	3/4" GR5	5-14	EE15	254	CONTROL		
S10					EE15	254			
S11					EE15	254			
S12							NOT USED		
S13									
S14									
S15	PRK. N. STATION	ELEV. INTERFACE PULL BOX	2" GR5		EE596	255	NOT USED		
S16									

Dadeland South feeder schedule for RFI No. 4

EL ECTR:GAL CONDUIT AND FEEDER SCHEDULE									
No.	FROM	TO	CONDUIT		CONDUCTOR		DWG. No.	PAGE No.	REMARKS
			SIZE	TYPE	No. B SIZE	GND.			
1	15KV GUES. CABLE	15KV AIR INTER. SW. 'A'	6"	PVC	3*20 15KV	1*4	EE-02		NEW SECTION TO 15KV SW. 1725. SEE FORM 1-100
2	15KV AIR INTER. SW. 'A'	15KV AIR INTER. SW. 'B'	6"	PVC	---	---			200000
3	15KV AIR INTER. SW. 'B'	15KV AIR INTER. SW. 'C'	6"	PVC	3*20 15KV	1*4			NEW SECTION TO 15KV SW. 1725. SEE FORM 1-100
4	15KV AIR INTER. SW. 'C'	15KV AIR INTER. SW. 'D'	6"	PVC	---	---			200000
5	ATS-1	PANEL 'P2'	2"	PVC	4*0	1*0			200000
6	ATS-1	PANEL 'P2'	2"	PVC	4*0	1*0			200000
7	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	18.250 MCM	3*10			200000
8	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
9	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
10	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
11	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
12	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
13	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
14	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
15	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
16	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
17	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
18	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
19	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
20	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
21	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
22	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
23	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
24	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
25	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
26	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
27	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
28	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
29	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
30	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
31	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
32	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
33	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
34	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
35	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
36	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
37	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
38	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
39	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
40	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
41	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
42	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
43	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
44	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
45	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
46	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
47	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
48	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
49	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
50	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
51	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
52	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
53	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
54	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
55	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
56	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
57	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
58	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
59	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
60	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
61	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
62	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
63	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
64	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
65	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
66	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
67	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
68	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
69	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
70	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
71	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
72	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
73	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
74	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
75	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
76	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
77	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
78	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
79	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
80	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
81	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
82	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
83	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
84	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
85	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
86	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
87	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
88	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
89	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
90	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
91	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
92	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
93	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
94	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
95	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
96	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
97	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
98	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
99	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000
100	SWITCHBOARD 'A'	SWITCHBOARD 'B'	2"	PVC	4*0	1*0			200000

TRACTION-POWER CONDUIT SCHEDULE									
No.	FROM	TO	CONDUIT		CONDUCTOR		DWG. No.	PAGE No.	REMARKS
			SIZE	TYPE	No. & SIZE	GND.			
P1	VAULT 400M.	3 PL 5EIGN TESS	2"	PVC	—	—	—	—	3 PL 400MM. TESS
P2					—	—	—	—	
P3					—	—	—	—	
P4					—	—	—	—	
P5	15KV BRGR. CHABLE	3 VAULT ROOM			—	—	—	—	3 EV-AGE SPACE
P6		5			—	—	—	—	SPACE
P7		6 VAULT ROOM			—	—	—	—	15KV FEEDER
P8		6			—	—	—	—	SPACE
P9		2 RT-1			—	—	—	—	CONTR-3
P10		2 RT-1			—	—	—	—	15KV FEEDER
P11		7 RT-2			—	—	—	—	CONTR-3
P12		7 RT-2			—	—	—	—	15KV FEEDER
P13		3 FUTURE RT-3			—	—	—	—	CON-20.5
P14		3 FUTURE RT-3			—	—	—	—	15KV FEEDER
P15	VAULT ROOM	METER 400M			—	—	—	—	METERING 200V-20
P16					—	—	—	—	
P17					—	—	—	—	
P18	ANNYN. DUL. (N.C.)	2 RT-1			—	—	—	—	
P19		2 RT-2			—	—	—	—	
P20		2 RT-3			—	—	—	—	
P21	PANEL "LLG"	2 RT-1			—	—	—	—	
P22		2 RT-2			—	—	—	—	
P23		2 RT-3			—	—	—	—	

SUPERVISORY CONTROL CONDUIT AND CONDUCTOR SCHEDULE									
C1	SCITC #1	INT SUBSTATION A	3/4"	2X	4 # 14	0 14	SS16	TERMINALS 9 9 14 14	
C2		A			4 # 14			1 5 16 6	
C3		B			4 # 14			1 8 16	
C4		B			4 # 14			3 4 14 8	
C5		HIGH TEMP STAT 2M 100		6S5	2 # 14			1 9 14 6	
C6		2M 100		6S5	2 # 14			4 5 14 6	
C7		3FY 2M 500 "30.25 AT		6S5				4 3 14 4	
C8		INVER. PUR. SUPPLY AT		PVC	4 # 14	0 14		1 10 14 5 14	
C9		EMER. PUR. SUPPLY	0"	PVC	6 # 14	0 14		2 14 2 14 14	
C10	SCITC #2	MAIN 4 # 32 CONTROL REAY		6S5	2 # 14		SS167	AT TP35	
C11	SCITC #2	HIGH TEMP STAT		6S5	2 # 14		SS67	AT TP35	
C12	SCITC #1	TC 4 # 32	0"	MCB-2			SS16		
C13	SCITC #1	TC 4 # 32	0"	MCB-2			SS14		
C14	SCITC #1	INER PUR. SUPPLY C "	3/4"	PVC	4 # 14	0 14	SS16	TERMINALS 9 9 14 14 14 14	
C15								NOT USED	
C16	SCITC #2	IN E-12 CONTROL REAY	3/4"	6S5	2 # 14		SS167	AT TP35	

[illegible][illegible]

Dade County Transportation Improvement Program

PANCOAST BORRELLI ALBAISA ARCHITECTS P.A.
3370 MARY STREET MIAMI, FLORIDA
DAVID VOLKERT & ASSOCIATES ENGINEERS
2420 S.W. 27th AVENUE MIAMI, FLORIDA

THE KAI-SENTRANSIT GROUP is a joint venture

KAMER ENGINEERS DIVISION OF HEERY & KAMER COMPANY HARRY WEISS & ASSOCIATES	POST, BUCKLEY, SCHUM & JEROME, INC. CARL SMITH AND ASSOCIATES, INC. SCHUMBLER CONSULTING ASSOCIATES
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DADELAND SOUTH STATION ELECTRICAL CONDUIT AND FEEDER SCHEDULES

NONE	EE 21-1	S438-270
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Lehman Center 1 & 2 feeder schedule for RFI No. 4

ELECTRICAL CONDUIT AND FEEDER SCHEDULE

NO.	FROM	TO	CONDUIT SIZE	CONDUCTOR TYPE	NO. & SIZE	Q.C.	Q.C. NO.	REMARKS
F1	15KV. SWGR. UNIT #01	EMH 51	4"	GRS	3" 20CU	1"	EE404	
	EMH 51	EMH 53 VIA EMH 52	4"	PVC	—	—	EE 011	
	EMH 53	SUB. A AIR INTERRUPTER SW	4"	GRS	—	—	EE155	INCOMING LINE COMPARTMENT
F1X	15KV. SWGR. UNIT #01	EMH 51	4"	GRS	—	—	EE404	SPARE
	EMH 53	SUB. A AIR INTERRUPTER SW	4"	GRS	—	—	EE155	SPARE
F2	15KV. SWGR. UNIT #02	EMH 51	4"	GRS	3" 20CU	1"	EE404	
	EMH 51	EMH 53 VIA EMH 52	4"	PVC	—	—	EE 011	
	EMH 53	SUB. B AIR INTERRUPTER SW	4"	GRS	—	—	EE155	INCOMING LINE COMPARTMENT
F2X	15KV. SWGR. UNIT #02	EMH 51	4"	GRS	—	—	EE404	SPARE
	EMH 52	SUB. B AIR INTERRUPTER SW	4"	GRS	—	—	EE155	SPARE
F3	SUB. A AIR INTERRUPTER SW A1	SUB. B AIR INTERRUPTER SW B1	4"	GRS	3" 20CU	1"	EE155	INCOMING LINE COMPARTMENT
F4	SUB. A AIR INTERRUPTER SW A2	SUB. B AIR INTERRUPTER SW B2	4"	GRS	3" 20CU	1"	EE155	INCOMING LINE COMPARTMENT
F5	MCC1 MT1	SWBD A1 UNIT A1-2	2 1/2"	GRS	3-250MCM	1"	EE145	
F6	LC2	SWBD N UNIT A1-3	1 1/2"	GRS	3" 1/2	1"	EE193	
F7	PANEL D1	SWBD A1 UNIT A1-4	2-3"	GRS	6-550MCM	2 1/2"	EE155	
F8	PANEL D6	EMH 25	2 1/2"	GRS	N.L.C.	N.L.C.	EE155	
	EMH 11	PANEL P14	2 1/2"	—	N.L.C.	N.L.C.	EE601	
F8A	PANEL D6	EMH 25	2 1/2"	GRS	—	—	EE155	SPARE
	EMH 11	PANEL P14	2 1/2"	—	—	—	EE601	SPARE
F9	STUB-UP STACK AT SOUTH FACE OF SOUTH WALL	EMH 25	1"	GRS	N.L.C.	N.L.C.	EE155	SEE TELEPHONE DIALBOX IN PUMP HOUSE
F9A	PANEL D1	EMH 25	1"	GRS	—	—	EE155	SPARE
F9Y	PANEL D1	EMH 25	4"	PVC	—	—	EE155	FOR PUMP HOUSE
F10	PANEL L7	LC2	1 1/2"	GRS	3" 1/2	1"	EE155	
F11	PANEL D6	EMH 25	2 1/2"	GRS	4" 2/20	1"	EE155	
	EMH 26	EMH 26	4"	PVC	—	—	EE 011	
	EMH 26	PANEL P13	2 1/2"	GRS	—	—	EE402	
F11X	PANEL D6	EMH 25	2 1/2"	GRS	—	—	EE155	SPARE
	EMH 26	PANEL P13	—	—	—	—	EE402	SPARE
F12	PANEL DD1	PANEL LL26	1 1/4"	GRS	4" 2	1"	EE155	
F13	TRANSF. T1	PANEL D1	1"	GRS	3" 1/2	1"	EE150	
F14	TRANSF. T1	PANEL LL1	1 1/4"	GRS	4" 2	1"	EE150	
F15	TRANSF. T2	PANEL D1	1 1/4"	GRS	3" 1	1"	EE155	
F16	TRANSF. T2	PANEL DD1	2 1/2"	GRS	4-250MCM	1 1/2"	EE155	
F17	PANEL DD1	PANEL LL2	3/4"	GRS	4" 2	1"	EE155	

ELECTRICAL CONDUIT AND FEEDER SCHEDULE

NO.	FROM	TO	CONDUIT SIZE	CONDUCTOR TYPE	NO. & SIZE	Q.C.	Q.C. NO.	REMARKS
F18	CB-5 ROOM 101	PANEL DD3	1 1/2"	GRS	4" 1	1"	EE185	
F19	CB-6 ROOM 101	PANEL DD3	1 1/4"	GRS	4" 2	1"	EE185	
F20	PANEL L2	PANEL D1	2 1/2"	GRS	4" 4/0	1 1/2"	EE143	
F21	PANEL L2	PANEL EL2	3/4"	GRS	2" 10	—	EE143	
F22	PANEL L3	PANEL D1	1 1/2"	GRS	4" 1/0	1"	EE155	
F23	PANEL L3	PANEL EL3	3/4"	GRS	2" 10	—	EE155	
F24	SWBD A1 UNIT A1-4	EMH 25	2-2 1/2"	GRS	N.L.C.	N.L.C.	EE155	
F24X	—	—	2 1/2"	GRS	—	—	EE155	
F25	CB-1	MAIN ACB SWBD A1	2-2"	GRS	6-250MCM	2 1/2"	EE155	
F26	CB-1	ATS-2	1 1/2"	GRS	3" 1/2	1"	EE155	
F27	DISC. SW IN ROOM 262	ATS-2	1 1/2"	GRS	3" 1/2	1"	EE155	
F28	ATS-2	CB-2	1 1/2"	GRS	3" 1/2	1"	EE155	
F29	ATS-3	CB-1	1 1/2"	GRS	3" 1/2	1"	EE155	
F30	CB-2	MAIN ACB SWBD B2	2-2"	GRS	6-250MCM	2 1/2"	EE155	
F31	CB-2	ATS-3	1 1/2"	GRS	3" 1/2	1"	EE155	
F32	DISC. SW. IN ROOM 132	ATS-3	1 1/2"	GRS	3" 1/2	1"	EE141	
F33	MCCB IN BLOW DOWN PIT	SWBD A2 UNIT A2-2	1 1/2"	GRS	3" 1/2	1"	EE149	
F34	MCC7 IN ROOM 301	SWBD A2 UNIT A2-3	1 1/4"	GRS	3" 1	1"	EE154	
F35	PANEL D2 IN ROOM 170	SWBD A2 UNIT A2-4	2-3 1/2"	GRS	12-300MCM	3 1/2"	EE146	
F36	PANEL P1 IN ROOM 176	PANEL D2 IN ROOM 170	2 1/2"	GRS	4-250MCM	1 1/2"	EE147	
F37	TRANSF. T3	PANEL P1	1"	GRS	5" 0	1"	EE147	
F38	TRANSF. T3	PANEL LL3	1 1/4"	GRS	4" 2	1"	EE147	
F39	PANEL LL16	PANEL LL3	1"	GRS	4" 0	1"	EE147	
F40	PANEL P2	PANEL D2	2"	GRS	4" 2/0	1"	EE145	

APPROVED
DATE
BY

CHANGE NOTICE # 37

NO. DATE BY APP. REVISIONS

347

SEP 15 1982

Dade County Transportation Improvement Program

THE KAISER TRANSIT GROUP a joint venture

THE KAISER TRANSIT GROUP a joint venture

KAISER ENGINEERS
BRUNNEN & ASSOCIATES, INC.
HARTY, WHELAN & ASSOCIATES, LTD.

POST, BUCKLEY, SCHWAB & JERVIS, INC.
CARR, SMITH AND ASSOCIATES, INC.
SCHWABER, CORNELL & ASSOCIATES

**PALMETTO YARD
OPERATIONS & MAINTENANCE FACILITIES
CONDUIT AND FEEDER SCHEDULE SHT. I**

SCALE NONE DRAWN EE196-1 Y241-344

South Miami feeder schedule for RFI No. 4

ELECTRICAL CONDUIT AND FEEDER SCHEDULE									
NO.	FROM	TO	CONDUIT	CONDUCTOR	DWG.	PAGE	REMARKS		
			SIZE TYPE	NO. & SIZE	NO.				
F1	15KV SWGR CUBICLE 1	15KV AIR INTER. SW. "A"	4" PVC	300/0/15KV	104	EE5 28	NOTE 1		
F2	15KV SWGR CUBICLE 1	15KV AIR INTER. SW. "A"	4" PVC	300/0/15KV	104	EE5 28	SPARE		
F3	15KV SWGR CUBICLE 10	15KV AIR INTER. SW. "B"	4" PVC	300/0/15KV	104	EE5 28	NOTE 1		
F4	15KV SWGR CUBICLE 10	15KV AIR INTER. SW. "B"	4" PVC	300/0/15KV	104	EE5 28	SPARE		
F5	ATS-1	PANEL "P2"	2" PVC	401/0	106	EE5 28			
F6	ATS-1	PANEL "P2"	2" PVC	401/0	106	EE5 28	SPARE		
F7	SWITCHBOARD "A"	SWITCHBOARD "B"	3" PVC	12-250MCH	301/0	EE5 28	CONDUIT & WIRE TIE		
F8	SWITCHBOARD CKT A-3	LIG. CONTACTOR "LC-1"	1 1/2" PVC	401	106	EE5 28			
F9	LIG. CONTACTOR "LC-1"	PANEL "L3"	1 1/2" GR5	401	106	EE5 28			
F10	PANEL "L3"	TRANSFORMER "T4"	1" PVC	300	1010	EE5 28			
F11	TRANSFORMER "T4"	PANEL "LL4"	1 1/2" PVC	401	106	EE5 28			
F12	SWITCHBOARD CKT A-4	PANEL "L1"	1 1/2" PVC	401	106	EE5 28			
F13	SWITCHBOARD CKT A-5	MCC-1	1" PVC	300	1010	EE5 28			
F14	SWITCHBOARD CKT A-6	ESCALATOR DISC SW	1" PVC	300	1010	EE5 28	SEE DWG EES 74		
F15	ESCALATOR DISC SW	ESCALATOR CONTROLLER	1" GR5	300	1010	EE5 28	SEE DWG EES 74		
F16	SWITCHBOARD CKT A-9	ATS-1	2" PVC	401/0	106	EE5 28			
F17	PANEL "P-2"	XPWR "T2"	1" GR5	300	1010	EE5 28			
F18	XPWR "T2"	PANEL "LL6"	1 1/2" GR5	401	106	EE5 28			
F19	SWITCHBOARD CKT A-12	PANEL "P1"	2" PVC	3-400MCH	103	EE5 28			
F20	PANEL "P1"	XPWR "T1"	1 1/2" GR5	301	106	EE5 28			
F21	XPWR "T1"	PANEL "DD1"	2 1/2" GR5	404/0	102	EE5 28			
F22	PANEL "DD1"	PANEL "LL1"	1 1/2" PVC	403	106	EE5 28			
F23	PANEL "DD1"	PANEL "LL2"	1 1/2" PVC	403	106	EE5 28			
F24	PANEL "DD1"	PANEL "LL5"	1 1/2" PVC	403	106	EE5 28			
F25	SWITCHBOARD CKT B-2	400A RECEPTACLE	2 1/2" PVC	403/0	203	EE5 28			
F26	UNIT SUBSTATION "A"	CB-1	3" PVC	3-500MCH	101/0	EE5 28	AHEAD OF MAIN		
F27	CB-1	CB-2	1" GR5	300	106	EE5 28			
F28	UNIT SUBSTATION "B"	CB-2	3" PVC	3-500MCH	101/0	EE5 28	AHEAD OF MAIN		
F29	CB-2	ATS-2	1" GR5	300	106	EE5 28			
F30	ATS-2	ELEV. DISC SW	1" PVC	300	106	EE5 28			
F31	ELEV. DISC SW	ELEV. CONTROLLER	1" GR5	300	106	EE5 28	SEE DWG EES 75		
F32	SWITCHBOARD CKT B-3	LIG. CONTACTOR LC-2	1 1/2" PVC	401	106	EE5 28			
F33	LIG. CONTACTOR LC-2	PANEL "L4"	1 1/2" GR5	401	106	EE5 28			
F34	SWITCHBOARD CKT B-4	PANEL "L2"	1 1/2" PVC	401	106	EE5 28			
F35							NOT USED		
F36									
F37									
F38									
F39									
F40	SWITCHBOARD CKT B-5	XPWR "T3"	1 1/2" PVC	301	106	EE5 28			
F41	XPWR "T3"	CB-3	2 1/2" GR5	4-500MCH	102	EE5 28			
F42	CB-3	CB-4	2 1/2" PVC	4-500MCH	102	EE5 28			
F43	CB-4	ATS-3	2 1/2" PVC	4-500MCH	102	EE5 28			
F44	SWITCHBOARD CKT B-6	ATS-1	2" PVC	401/0	106	EE5 28			
F45	SWITCHBOARD CKT B-12	PANEL "ED1"	3/4" PVC	4010	1010	EE5 28			
F46	PANEL "ED1"	EMERG. POWER SUPPLY "A"	3/4" PVC	2010	1010	EE5 28	INCLUDES PNL "EL2"		
F47	PANEL "ED1"	EMERG. POWER SUPPLY "B"	3/4" PVC	2010	1010	EE5 28	INCLUDES PNL "EL2"		
F48	SWITCHBOARD CKT "AB"	XPWR "T5"	1 1/2" PVC	301	106	EE5 28			
F49	XPWR "T5"	CB-5	2 1/2" GR5	4-500MCH	102	EE5 28			
F50	CB-5	CB-6	2 1/2" PVC	4-500MCH	102	EE5 28			
F51	PANEL "L4"	XPWR "T6"	3/4" GR5	3010	1012	EE5 28			
F52	XPWR "T6"	PANEL "LL5"	1" GR5	400	1010	EE5 28			
F53	FUT. SECURITY GMRD BATH	ELECTRICAL CLOSET	1" PVC			EE5 28			
F54							NOT USED		
F55									
F56									
F57									
F58	UNIT SUBSTATION "B"	9" OUT OF ELECTRICAL ROOM	2-4" GR5			EE5 28	FOR FUT. PARK STRUCTURE		
F59	ELECT. EQUIPMENT RM.		2" GR5						
F60			2" GR5						
F61			2" GR5						

TRACTION POWER CONDUIT SCHEDULE									
NO.	FROM	TO	CONDUIT	CONDUCTOR	DWG.	PAGE	REMARKS		
			SIZE TYPE	NO. & SIZE	NO.				
TP1	VAULT RM	9 FT. BEYOND TP55	3" PVC		EE5 28	296	PP #1 INCOMING LINE		
TP2									
TP3									
TP4									
TP5	15KV SWGR CUBICLE 3	VAULT RM	4" PVC				HOVERING CONDUCTORS		
TP6									
TP7									
TP8									
TP9									
TP10									
TP11									
TP12									
TP13									
TP14									
TP15	VAULT RM	METER RM	2" PVC				METERING CONDUCTOR		
TP16									
TP17									
TP18	ARMOR PUL (N.I.C.)	RT-1							
TP19									
TP20									
TP21	PANEL "LLG"	RT-2							
TP22									
TP23									
TP24									
TP25									
SC1	SCITC #1	UNIT SUBSTATION "A"	3/4" GR5	4014	1014	EE5 28	TERMINALS 9.10.15.16		
SC2		"A"		4014	1014		1.8.5.6		
SC3		"B"		2014	1014		11.8.16		
SC4		"D"		4014	1014		3.4.7.8		
SC5		HIGH TEMP T'STAT RM 100	GR5	2014			15.8.16		
SC6		HIGH TEMP T'STAT RM 100	GR5	2014			45.8.16		
SC7		RTV RM RM CONTROL RELAY	GR5	2014			43.8.16		
SC8		EMER. PUR. SUPPLY "A"	GR5	4014	1014		11.20.25.26		
SC9		EMER. PUR. SUPPLY "B"	GR5	4014	1014		11.20.27.28		
SC10	SCITC #2	RM 51432 CONTROL RELAY	GR5	2014			AT TP55		
SC11	SCITC #2	HIGH TEMP T'STAT	GR5	2014			AT TP55		
SC12	SCITC #1	TC # C RM	2 GR5						
SC13	SCITC #1	TC # C RM	2 GR5						

NOTES
1- CONNECT ON OF CONDUCTORS TO 15KV SWITCHGEAR IS N.I.C.
2- CONDUIT IDENTIFIED AS PCCS INDICATED PVC COATED G.S. CONDUIT.

15 KV FEEDER
SPARE
15 KV FEEDER
SPARE

SUPERVISORY CONTROL CONDUIT AND CONDUCTOR SCHEDULE

SIGNAL CONDUIT SCHEDULE

* STUMBED OUT, CAPPED & STAKED IN AREA ACCESSIBLE FOR FUTURE EXTENSION

Design DESIGNED: <i>Charles G. Gaudin</i> DRAWN: <i>Don</i> CHECKED: <i>Don</i> DATE: 7-15-80		Revised REVISIONS: <i>None</i> DATE: <i>None</i>		Dade County Transportation Improvement Program MILLER WALTZ DIEDRICH ARCHITECTS & ASSOC., INC. 915 MIDDLE RIVER DRIVE FORT LAUDERDALE, FLORIDA 33304 PFE ENGINEERS, INC. 2076 CORAL WAY MIAMI, FLORIDA 33135		THE KAISER TRANSIT GROUP a joint venture KASPER ENGINEERS DIVISION OF KASPER & KASPER COMPANY HUNTER STREET & ASSOCIATES LTD. KASPER, BUCKLEY, SCHWAB & SCHWAB, INC. CARR, SMITH AND ASSOCIATES, INC. SCHRUBB, COCHRAN & ASSOCIATES		SOUTH MIAMI STATION ELECTRICAL CONDUIT AND FEEDER SCHEDULES SCALE: NOT TO SCALE SHEET: EE28 OF: S-356-229	
SUBMITTED: <i>R. D. Smith</i> DATE: 7-15-1980				APPROVED: <i>D. K. Campbell</i> DATE: July 15, 1980					

University feeder schedule for RFI No. 4

ELECTRICAL CONDUIT AND FEEDER SCHEDULE									
NO	FROM	TO	CONDUIT SIZE TYPE	CONDUCTOR N.B. SIZE	END.	DWG NO.	PAGE NO.	REMARKS	
F1	15 KV SWGR CUBICLE 1	15 KV AIR INTER. SW. 'A'	4" PVC	3/20 15KV	1#4	EEO4	273	SEE DWG E1	
F2	15 KV SWGR CUBICLE 1	15 KV AIR INTER. SW. 'A'	4"					SPARE	
F3	15 KV SWGR CUBICLE 1	15 KV AIR INTER. SW. 'B'	4"	3/20 15KV	1#4			SEE DWG E1	
F4	15 KV SWGR CUBICLE 1	15 KV AIR INTER. SW. 'B'	4"					SPARE	
F5	A.T.S.-1	PANEL 'P2'	2"	4# 1/0	1#6			SPARE	
F6	A.T.S.-1	PANEL 'P2'	2"					CONDUIT & WIRE 15	
F7	SWITCHBOARD CKT 'A'	SWITCHBOARD 'B'	3"	1# 150CM	3# 1/0				
F8	SWITCHBOARD CKT 'A'	L.T.G. CONTACTOR 'LC-1'	1 1/2"	4# 3	1#8				
F9	L.T.G. CONTACTOR 'LC-1'	PANEL 'LB1'	1 1/2"	GRS 4# 3	1#8				
F10	PANEL 'LB1'	TRANSFORMER 'TA'	1"	3# 10	1#10				
F11	TRANSFORMER 'TA'	PANEL 'LL4'	1"	4# 6	1#10				
F12	SWITCHBOARD CKT 'A'	PANEL 'LI-1'	1 1/2"	PVC 4# 1	1#6				
F13	SWITCHBOARD CKT 'A'	MCC 1	1"	PVC 3# 6	1#10	EEO4	273		
F14	SWITCHBOARD CKT 'A'	ESCALATOR DISC SW.	1"	PVC 3# 6	1#10				
F15	ESCALATOR DISC SW.	ESCALATOR CONTROLLER	1"	GRS 3# 8	1#10			SEE DWG EES-74	
F16	SWITCHBOARD CKT 'A'	A.T.S.-1	2"	PVC 4# 1/0	1#6				
F17	PANEL 'P2'	XFMR 'T6'	1"	GRS 3# 6	1#10				
F18	XFMR 'T6'	PANEL 'LL6'	1 1/2"	GRS 4# 1	1#6				
F19	SWITCHBOARD CKT 'A'	PANEL 'PI'	2 1/2"	PVC 3-250MCM	1#3				
F20	PANEL 'PI'	XFMR 'T1'	1 1/2"	GRS 3# 1	1#6				
F21	XFMR 'T1'	PANEL 'DD1'	2 1/2"	GRS 4# 4/0	1#2				
F22	PANEL 'DD1'	PANEL 'LL1'	1 1/2"	GRS 4# 3	1#8				
F23	PANEL 'DD1'	PANEL 'LL3'	1 1/2"	4# 3	1#8				
F24	C.B.-3	A.T.S.-3	2 1/2"	GRS 4-250MCM	1#2				
F25	SWITCHBOARD CKT 'B'	400A RECEPTACLE	3/8"	PVC 8# 40	2#3	EEO4	273		
F26	UNIT SUBSTATION 'A'	'CB-1'	3"	PVC 3-500MCM	1#10			AHEAD OF MAIN	
F27	'CB-1'	A.T.S.-2'	1"	GRS 3# 4	1#6				
F28	UNIT SUBSTATION 'B'	'CB-2'	3"	PVC 3-500MCM	1#10			AHEAD OF MAIN	
F29	'CB-2'	A.T.S.-2'	1"	GRS 3# 4	1#6				
F30	A.T.S.-2'	ELEVATOR DISC SW.	1"	PVC 3# 4	1#6				
F31	ELEVATOR DISC SW.	ELEVATOR CONTROLLER	1"	GRS 3# 4	1#6			SEE DWG EES-73	
F32	SWITCHBOARD CKT 'B'	L.T.G. CONTACTOR 'LC-2'	1 1/2"	PVC 4# 1	1#6				
F33	L.T.G. CONTACTOR 'LC-2'	PANEL 'L4'	1 1/2"	GRS 4# 1	1#6				
F34	SWITCHBOARD CKT 'B'	PANEL 'L2'	1 1/2"	PVC 4# 1	1#6				
F35									
F36									
F37									
F38									
F39									
F40	SWITCHBOARD CKT 'B'	XFMR 'T2'	1 1/2"	PVC 3# 1	1#6	EEO4	273		
F41	XFMR 'T2'	'C.B.-5'	2 1/2"	GRS 4-250MCM	1#2				
F42	'C.B.-5'	'C.B.-5'	2 1/2"	GRS 4-250MCM	1#2				
F43	'C.B.-5'	A.T.S.-5	2 1/2"	GRS 4-250MCM	1#2				
F44	SWITCHBOARD CKT 'B'	A.T.S.-1	2"	PVC 4# 1/0	1#6				
F45	SWITCHBOARD CKT 'B'	PANEL 'ED1'	3/4"	4# 8	1#10				
F46	PANEL 'ED1'	EMER POWER SUPPLY 'A'	3/4"	2# 8	1#10			INCLUDES PANEL 'EL2'	
F47	PANEL 'ED1'	EMER POWER SUPPLY 'B'	3/4"	2# 8	1#10			INCLUDES PANEL 'EL2'	
F48	SWITCHBOARD CKT 'A'	XFMR 'T3'	1 1/2"	PVC 3# 1	1#6				
F49	XFMR 'T3'	'C.B.-3'	2 1/2"	GRS 4-250MCM	1#2				
F50	'C.B.-3'	'C.B.-4'	2 1/2"	GRS 4-250MCM	1#2				
F51	PANEL 'L4'	XFMR 'T5'	1"	GRS 3# 8	1#10				
F52	XFMR 'T5'	PANEL 'LL5'	1 1/2"	GRS 4# 1	1#6				
F53	SITE AREA	ELECTRICAL RM	1"	PVC		EEO1	270	PUT SECURITY GARD 20TH	
F54	SITE AREA	ELECTRICAL CLOSET	1"	PVC		EEO3	272	PUT SECURITY GARD 20TH	

TRACTION POWER CONDUIT SCHEDULE									
NO	FROM	TO	CONDUIT SIZE	TYPE	CONDUCTOR # & SIZE	END	DWG #	PAGE #	REMARKS
TP1	VAULT RM	9 FT. BEYOND TP55	5"	PVC			EES 63	304	PER L. MOONING LINE
TP2									
TP3									
TP4									
TP5	5-W-DUAL-LOBULE	VAULT RM	4"						15 KV FEEDER
TP6									SEALS
TP7									15 KV FEEDER
TP8									SPARE
TP9			4"						15 KV FEEDER
TP10		RT-1	1"						CONTROLS
TP11		RT-1	4"						15 KV FEEDER
TP12		RT-2	1"						CONTROLS
TP13		FUTURE RT-3	4"						15 KV FEEDER
TP14		FUTURE RT-3	1"						CONTROLS
TP15	VAULT RM	METER RM	2"						WATERING CONDUCTORS
TP16									
TP17									
TP18	ANNUN PNL (N.I.C.)	RT-1							
TP19		RT-2							
TP20		RT-3							
TP21	PANEL LLG	RT-1	1"						
TP22		RT-2							
TP23		RT-3							

SUPERVISORY CONTROL CONDUIT AND CONDUCTOR SCHEDULE									
NO	SCITC #	UN- SUBSTATION	A	B	C	D	E	F	G
SC1	SCITC #	UN- SUBSTATION	A	B	C	D	E	F	G
SC2									
SC3									
SC4									
SC5		HIGH TEMP	RT-1 RM 105	GRS	2 # 14				15 & 16
SC6		HIGH TEMP	RT-2 RM 105	GRS	2 # 14				15 & 16
SC7		RTY RM RUN CONTROL BUS		GRS	2 # 14				15 & 16
SC8		BUSR PWR SUPPLY 1A		PVC	4 # 14	1 # 14			15, 20, 23 & 24
SC9		BUSR PWR SUPPLY 2B		PVC	4 # 14	1 # 14			15, 20, 23 & 24
SC10	SCITC #2	FAN 1-16 5-2 CONTROL BUS		GRS	2 # 14				15 & 16
SC11	SCITC #2	HIGH TEMP TSTRT		GRS	2 # 14				15 & 16
SC12	SCITC #1	TC 6 C RM		GRS	2 # 14				15 & 16
SC13	SCITC #1	TC 6 C RM		GRS	2 # 14				15 & 16
SC14	SCITC #2	FAN 1-2 CONTROL RELAY CR2		GRS	2 # 14				15 & 16

SIGNAL CONDUIT SCHEDULE									
NO	STA ATT BOOTH	SIGNAL	CONDUIT	TYPE	CONDUCTOR	END	DWG	PAGE	REMARKS
S1	STA ATT BOOTH	BLV INTC PULLBOX	2"	GRS			EES 73	306	WIRE BY ELEVATOR
S2									REPAIR
S3									NOT USED
S4									NOT USED
S5	STA ATT BOOTH	ESC INTC PULLBOX	2"	GRS			EES 74	307	2 INCH BY SEC
S6									NOT USED
S7									NOT USED
S8									NOT USED
S9	STA ATT BOOTH	ROLL UP GARAGE SCANTER	3/4"	GRS	5 # 14		EES 12		CONTRON
S10			3/4"	GRS	5 # 14		EES 12		CONTRON
S11			3/4"	GRS	5 # 14		EES 12		CONTRON
S12									NOT USED
S13									NOT USED
S14									NOT USED
S15									NOT USED

NOTE:
1- CONNECTION OF CONDUCTORS
TO 15 KV SWGR N.I.C.

DATE	2/2/79	BY	AL/AL	ADDED SCAR TO SUPERWEIGHT CONTROL COMPLAINT SIGNED
TIME	0416	BY	AL/AL	REVISED FEEDBACK FAF, FAF, FAF
DATE	2/2/79	BY	AL/AL	REMOVED MID REVISED SITUATION OF TP1
TIME	0416	BY	AL/AL	TURB TURB REVISED LITS OF TP15 TURB TURB
DATE	2/2/79	BY	AL/AL	REVISED REDUCE FAF, FAF, FAF, FAF
TIME	0416	BY	AL/AL	ISSUED FOR CONSTRUCTION
DATE	2/2/79	BY	AL/AL	ADDED ITEM TO BAF, BAF, BAF, BAF
TIME	0416	BY	AL/AL	ISSUED BIL, NG

RF # 14463

Dade County Transportation Improvement Program

THE KAISER TRANSIT GROUP a joint venture

THE KAISER TRANSIT GROUP a joint venture

KAISER ENGINEERS
DIVISION OF HENRY J. KAISER COMPANY
HARRY WEESE & ASSOCIATES LTD.

POST, BUCKLEY, BOWEN & JENNIGAR, INC.
CARR SMITH AND ASSOCIATES, INC.
SCHNEPFLER - CONFIRMED ASSOCIATES

**SOUTH CORRIDOR
UNIVERSITY STATION
CONDUIT & FEEDER SCHEDULE**

SUBMITTED *e. yacoub*

DATE 9-5-79

APPROVED *D. W. Hauser*

DATE **9-6-77**

NAME	PHONE
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