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CAD 7,8,9,10,11,12	G2	5
CAD 13,14,15	G3	4,5
CAD 16,17,18	G4	4

DWG ISSUE	CD ISSUE	DATE ISSUED		APPD
1	1	5.12.93	BSG WEP	APV MWR AWS
2A	1	5.12.93	BSG WEP	APV MWR AWS
3A	1	5.12.93	BSG WEP	APV MWR AWS
4B	2	5-8-94	DMF SAF	RPV MWR AWS
5A	2	5-8-94	DMF SAF	RPV MWR AWS

SUPPORTING INFORMATION

CATEGORY	NO.

7N98

COMMON SYSTEMS
AT&T 3B20D MODELS 1, 2 AND 3 COMPUTER
AC & DC POWER DISTRIBUTION CIRCUIT

AT&TCO PROVISIONAL

DTBT

DWG SIZE 6S | ISSUE 5A

AT&T BELL LABORATORIES | SD-4C053-01 | SHEET A1 OF 24

SHEET INDEX - OPERATION AND MAINTENANCE

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FIGURES, NOTES AND OTHER INFORMATION REFERENCED IN THIS DRAWING BUT NOT LISTED IN THIS "OPERATION AND MAINTENANCE" SHEET INDEX ARE REQUIRED FOR ENGINEERING AND MANUFACTURING PURPOSES ONLY AND ARE NOT PROVIDED.

COMMON SYSTEMS
AT&T 3B200 MODELS 1, 2 AND 3 COMPUTER
AC & DC POWER DISTRIBUTION CIRCUIT

OPERATION AND MAINTENANCE

AT&TCO PROVISIONAL

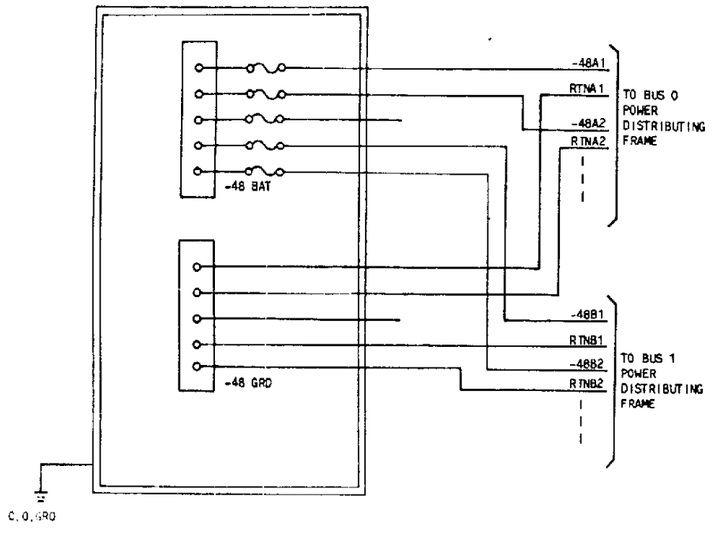
DWG SIZE 6S | ISSUE 5A

AT&T BELL LABORATORIES | SD-4C053-01 | SHEET A#1 OF 18

E-7419 (6-75) PRINTED IN U.S.A.

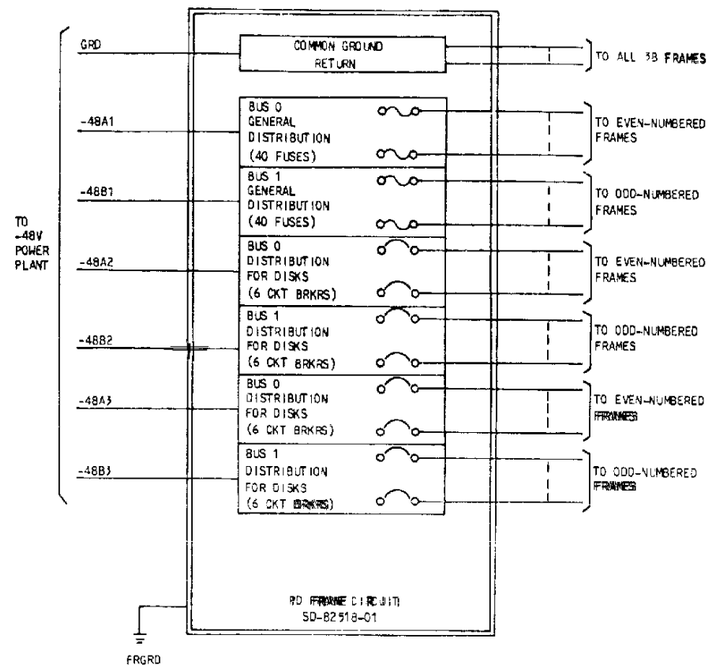
FS 1

-48V POWER PLANT



FS 2

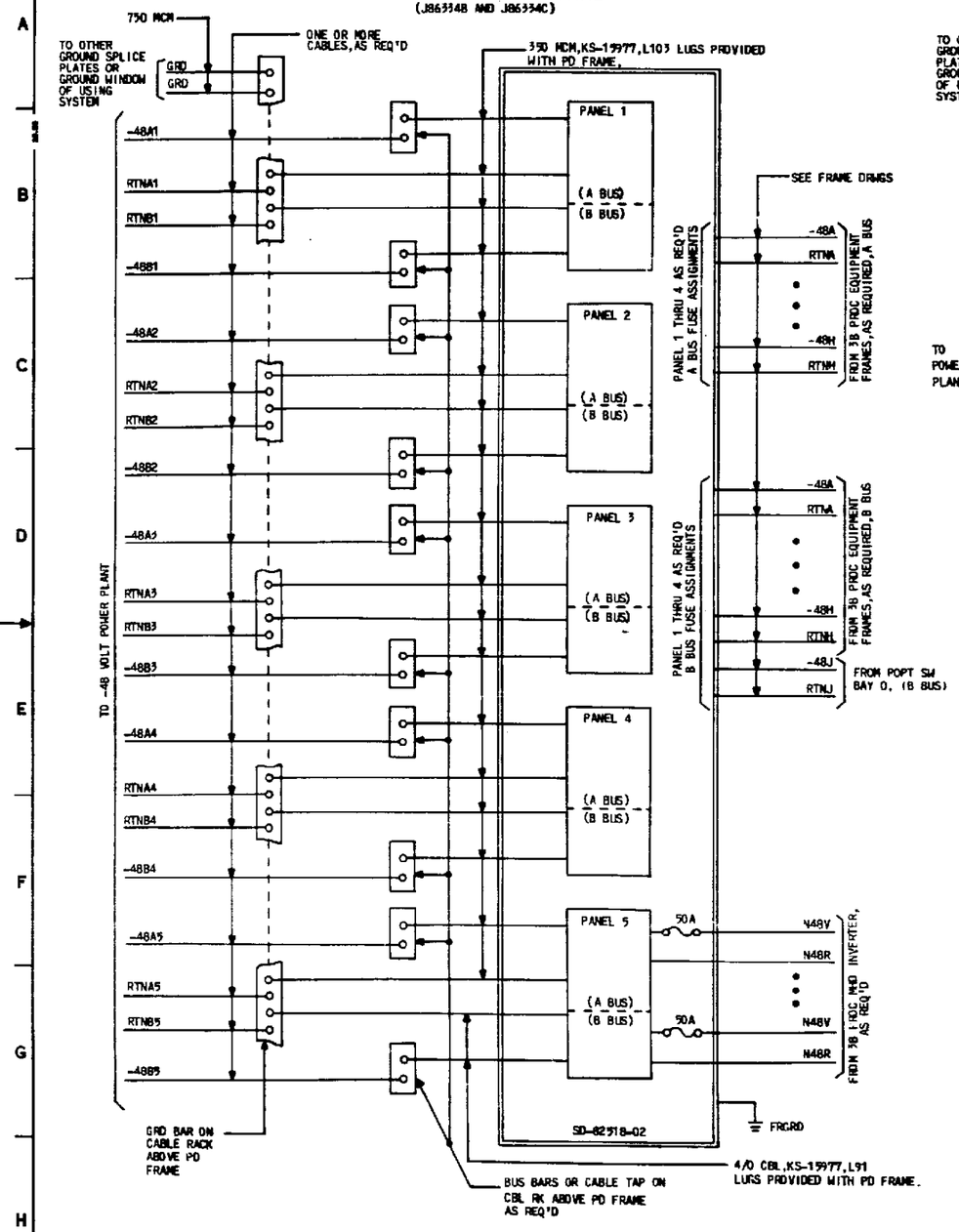
POWER DISTRIBUTION FRAME
(JB6334A-)
MFR DISC



AC & DC POWER DISTRIBUTION		DWG SIZE 8S	ISSUE 3A
BELL LABORATORIES	SD-4C053-01		SHEET 8 of 1

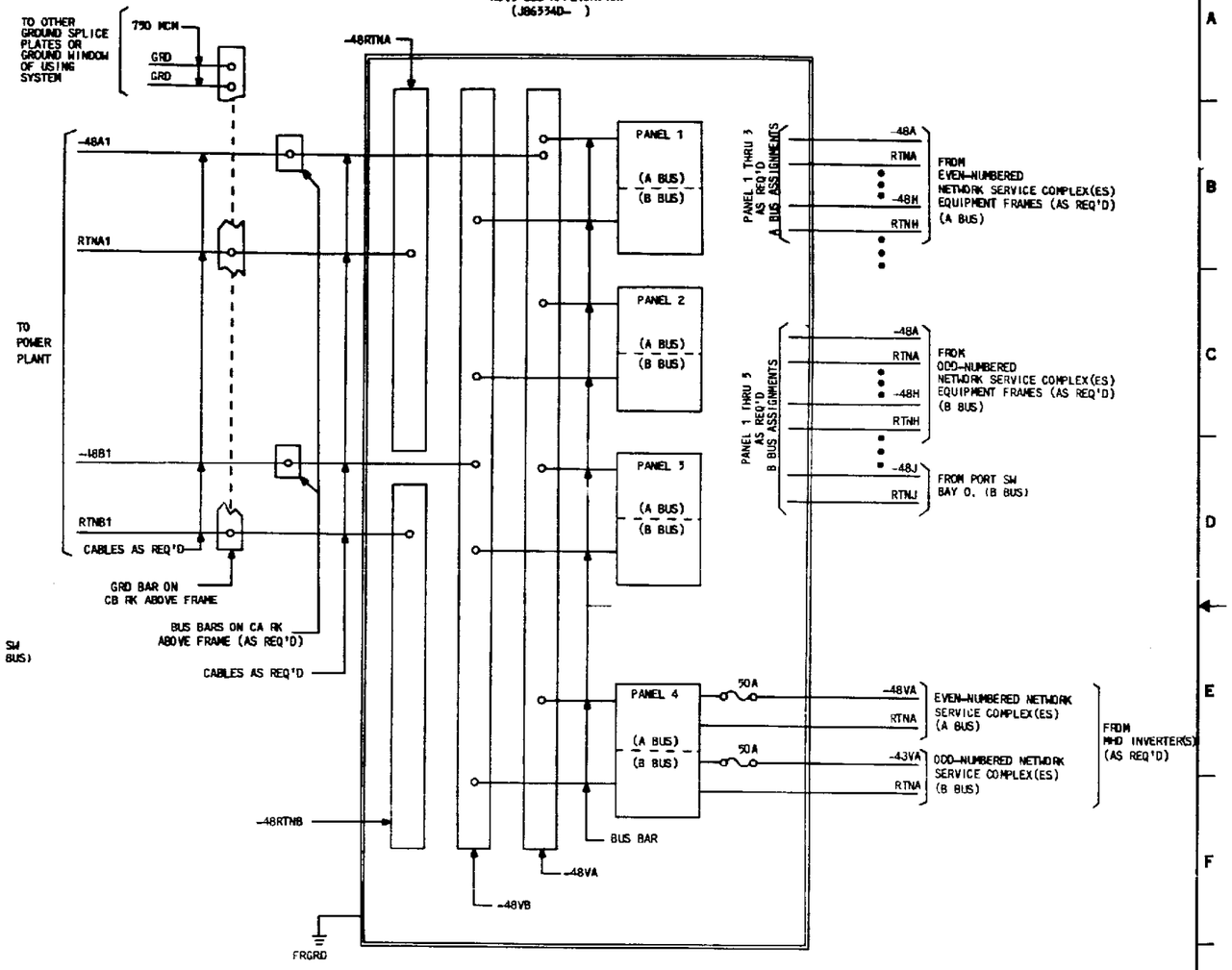
FS 3

TYPICAL POWER DISTRIBUTION FRAME
(J86334B AND J86334C)



FS 4

POWER DISTRIBUTION FRAME
NO. 5 ESS APPLICATION
(J86334D-)

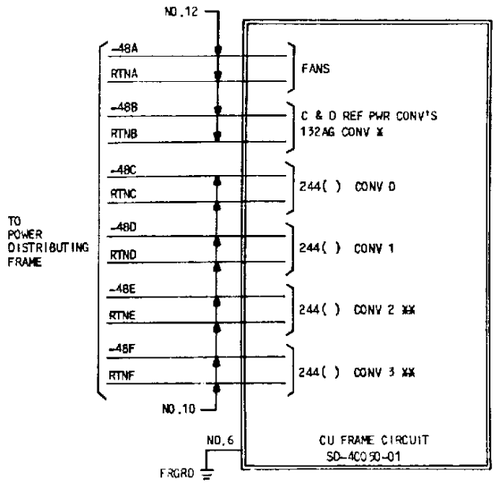


SEE PROPRIETARY NOTICE ON COVER SHEET

AC & DC POWER DISTRIBUTION	DWG SIZE: 8S	ISSUE: 5A
AT&T BELL LABORATORIES	SD-4C053-01	SHEET: B#2

FS5

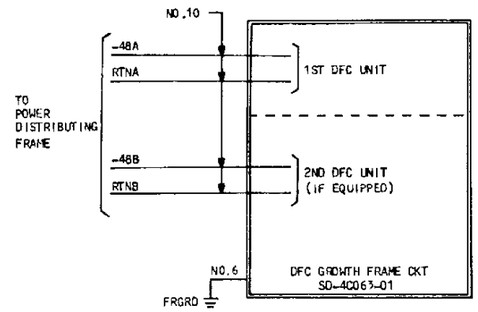
CONTROL UNIT FRAME
COMMON: (J1C129A-1)
NO.5 ESS: (J1C129A-1,LIST 37)



※ NOT PERMITTED WITH LIST 37
※※ NOT REQ'D WITH TN28 MEMORY BOARDS

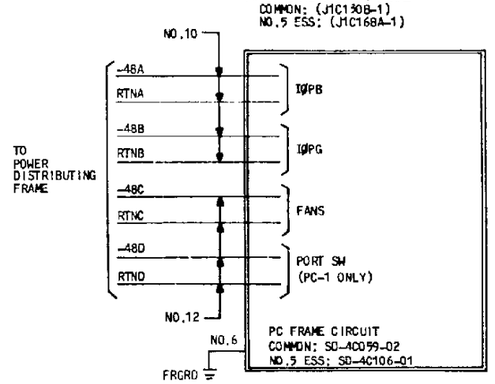
FS6

DISK FILE CONTROLLER GROWTH FRAME
(J1C137A-)



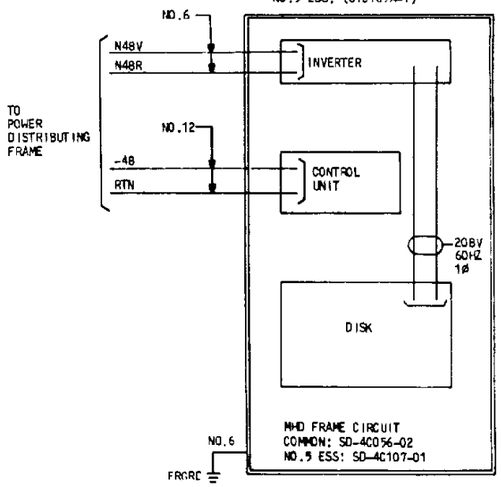
FS7

PERIPHERAL CONTROL FRAME
COMMON: (J1C130B-1)
NO.5 ESS: (J1C168A-1)



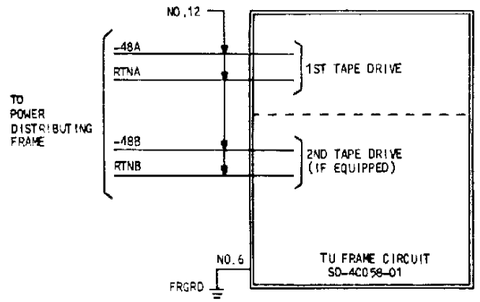
FS8

300 MBYTE
MOVING HEAD DISK FRAME
COMMON: (J1C131B-1)
NO.5 ESS: (J1C169A-1)



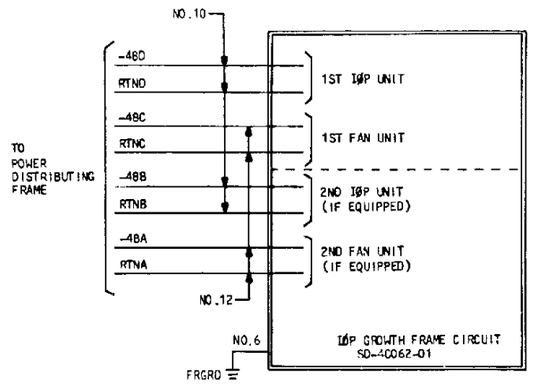
FS9

TAPE UNIT FRAME
(J1C134A-1)



FS10

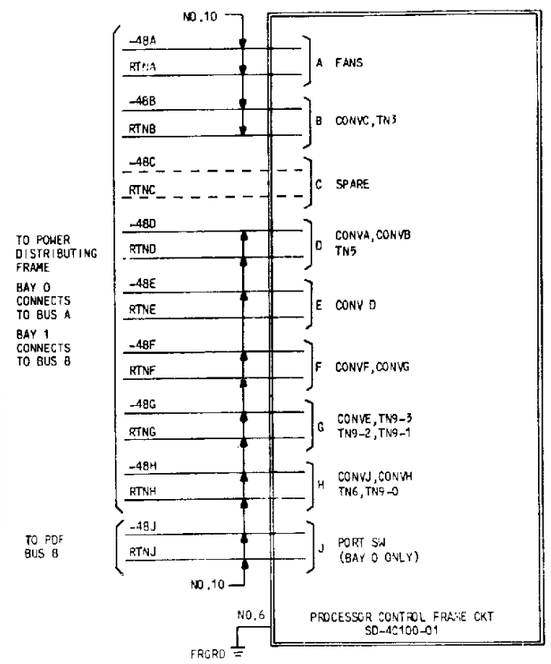
IØP GROWTH FRAME
(J1C136A-)



AC & DC POWER DISTRIBUTION		DWG SIZE	ISSUE
			3A
BELL LABORATORIES	SD-4C053-01		SHEET B#3

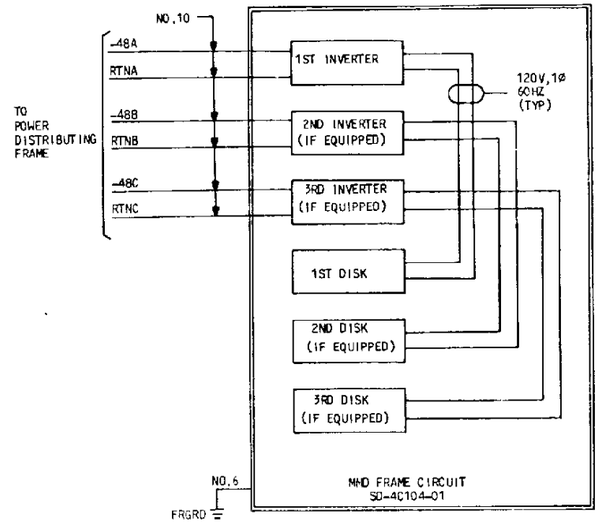
FS11

PROCESSOR CONTROL FRAME
(J1C147B-1)



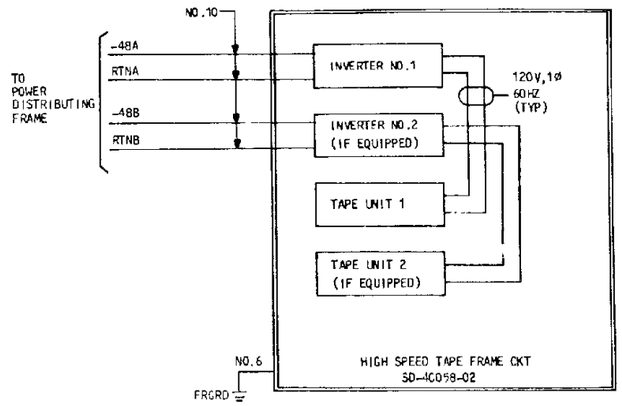
FS12

160M BYTE
MINI MODULE DISK FRAME
(J1C149A-1)



FS13

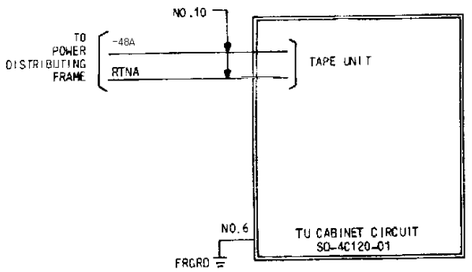
HIGH SPEED TAPE FRAME
(J1C134B-1)



AT & T POWER DISTRIBUTUION		DWG SIZE: 6B	ISSUE: 5A
AT&T BELL LABORATORIES	SD-4C053-01		SHEET: B#4

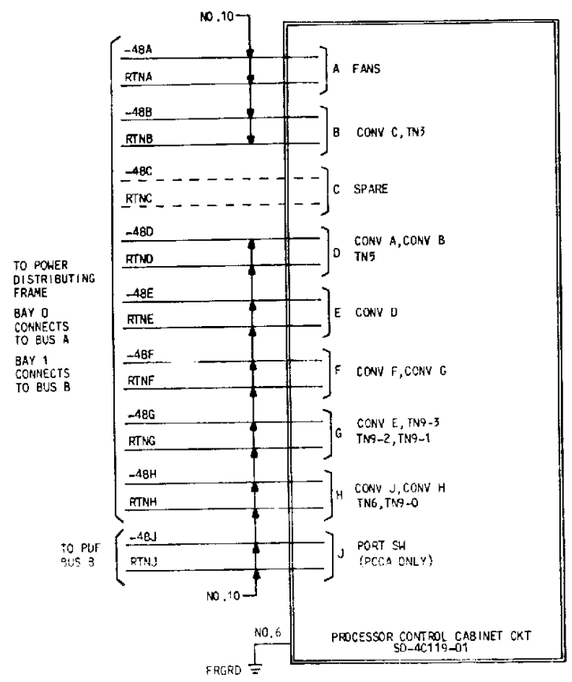
FS14

TAPE UNIT CABINET
NO.5 ESS: (J1C174A-1)



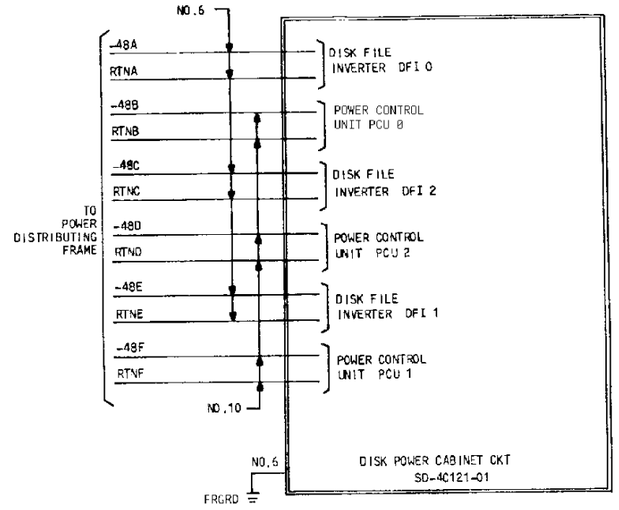
FS15

PROCESSOR CONTROL CABINET
NO.5 ESS: (J1C173A-1)



FS16

300M BYTE
DISK POWER CABINET
NO.5 ESS: (J1C175A-1)



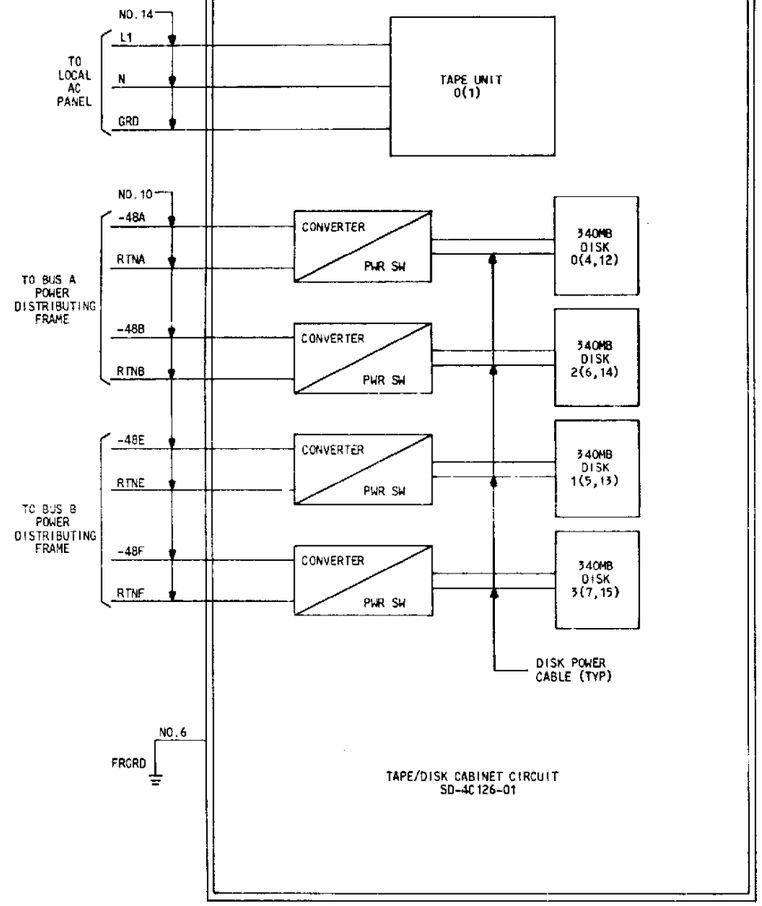
AC & DC POWER DISTRIBUTION

DWG SIZE: B6
ISSUE: 5A

AT&T BELL LABORATORIES | SD-4C053-01 | SHEET: B# 5

FS17

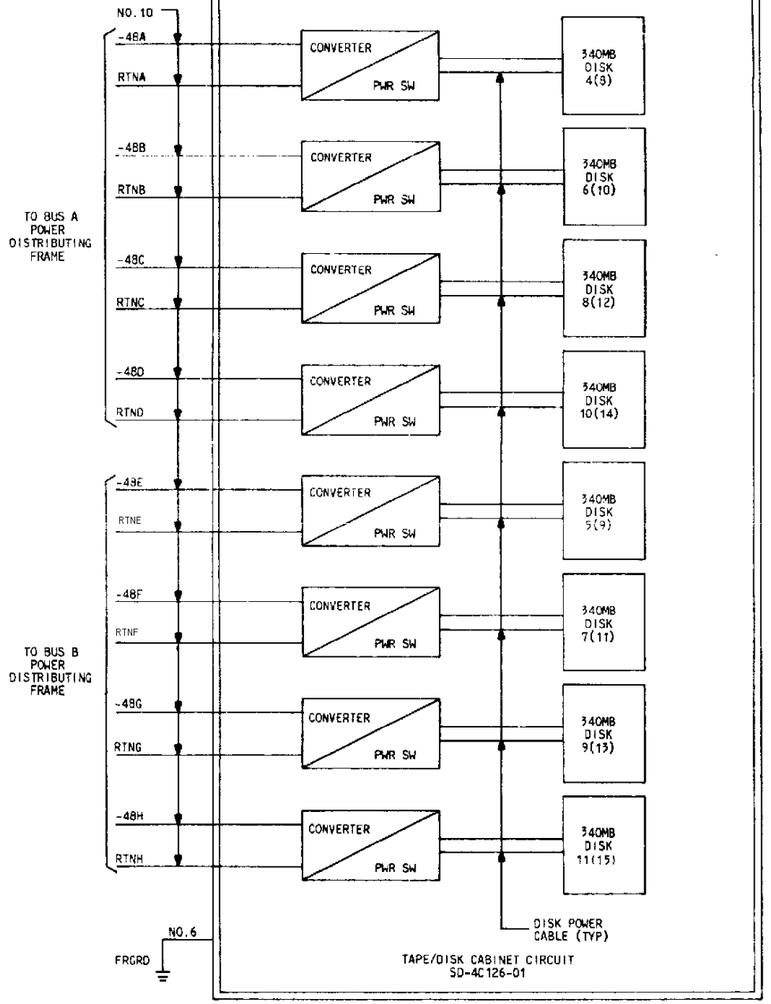
TAPE/DISK CABINET
(J1C186A-1, 4 DISKS, 1 TAPE UNIT *)



* DRAWING SHOWS CABINET WITH 4 DISKS AND 1 TAPE UNIT. FOR CABINET WITH 4 DISKS ONLY, OMIT INFORMATION FOR TAPE UNIT.

FS18

TAPE/DISK CABINET
(J1C186A-1, 8 DISKS)



AC & DC POWER DISTRIBUTION	DWG SIZE 68	ISSUE 4B
AT&T BELL LABORATORIES	SD-4C053-01	SHEET B#6

FS 19

PROCESSOR CONTROL CABINET
MODEL 3 (J1C187A-1)

NO. 10

-48A
RTNA
A FANS

-48B
RNTB
B CONV C, TN3

TO POWER DISTRIBUTING FRAME

-48C
RTNC
C SPARE

BAY 0 CONNECTS TO BUS A

-48D
RTNC
D CONV A, CONV B TN5

BAY 1 CONNECTS TO BUS B

-48E
RTNE
E CONV D

-48F
RTNF
F CONV F, CONV G

-48G
RTNG
G CONV E, TN9-3 TN9-2, TN9-1

-48H
RTNH
H CONV J, CONV H TN6, TN9-0

TO POF BUS B

-48J
RTNJ
J PORT SW (BAY 0 ONLY)

NO. 10

NO.6
FRGRD

PROCESSOR CONTROL CABINET
POWER DISTRIBUTION UNIT
CIRCUIT SD-4C102-01

FS 20

I@P/DFC GROWTH CABINET
MODEL 3 (J1C1648-1)

NO. 10

TO POWER DISTRI-BUTING FRAME

BUS A
-48A
RTNA
A SPARE

BUS B
-48B
RTNB
B 1ST I@P

-48C
RTNC
C SPARE

BUS B
-48D
RTND
D 2ND I@P

-48E
RTNE
E SPARE

-48F
RTNF
F SPARE

BUS A
-48G
RTNG
G 1ST DFC

BUS B
-48H
RTNH
H 2ND DFC

BUS A
-48J
RTNJ
J FANS

NO.6
FRGRD

I@P/DFC GROWTH CABINET
CIRCUIT SD-4C117-01

FS 21

MISCELLANEOUS CABINET
MODEL 3 (J1C185A-1)

SEE FRAME DWGS

NO. 10
TO LOCAL AC PANEL
L1
L2
L3
ACEG

RECTIFIER

-48A
RTNA
FROM 3B PROC EQUIPMENT FRAMES, AS REQUIRED, A BUS (SEE FRAME DWGS)

-48J
RTNJ

RTN A BUS (-48V)

NO. 10
TO LOCAL AC PANEL
L1
L2
L3
ACEG

RECTIFIER

-48A
RTNA
FROM 3B PROC EQUIPMENT FRAMES, AS REQUIRED, B BUS (SEE FRAME DWGS)

-48H
RTNH

RTN B BUS (-48V)

TO GROUND WINDOW
NO. 2
NO.6
FRGRD

MISC CABINET CIRCUIT
INCLUDED IN SYSTEM CIRCUIT
SD-4C127-01

SEE PROPRIETARY NOTICE ON COVER SHEET

AC & DC POWER DISTRIBUTION	DWG SIZE E	ISSUE 4B
AT&T BELL LABORATORIES	SD-4C053-01	SHEET B#7

CIRCUIT NOTES:

101.

DESIG	FOSE AMP	POTENTIAL	ONE PER
-48V (0,1)	SEE NOTE 102	-48V	CIRCUIT
-48V (0,1)	SEE NOTE 102	-48V	CIRCUIT

BATTERY SYMBOL	VOLTAGE RANGE (SEE NOTE 102) NORMAL	EMERGENCY
-48	-49 TO -54	-42.25 TO -55

102. POWER FEEDERS BETWEEN POWER PLANT AND POWER DISTRIBUTING FRAME SHALL BE SIZED TO INSURE VOLTAGE RANGE SHOWN.

EQUIPMENT NOTES:

201. ⏚ FRGRD DENOTES CONNECTION TO FRAME GROUNDING SYSTEM.

202. ⏚ C.O. GRD DENOTES CONNECTION TO CENTRAL OFFICE GROUNDING SYSTEM. SEE BSP-802-001-195.

AC & DC POWER DISTRIBUTION	DWG SIZE E8	ISSUE 3A
BELL LABORATORIES	SD-4C053-01	SHEET D1

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS.
CAPACITANCE VALUES ARE IN MICROFARADS VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

302.

FEATURE OR OPTION	PROVIDE		
	APP FIG	APP OR WRG	QUANTITY

303.

RECORD OF APP FIGURES, WIRING AND APPARATUS CHANGES							
CHANGED ON ISSUE	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A & M	MD

304.

TABLE A 3B200 MODEL 1 NEGATIVE 48V DC REQUIREMENTS

FRAME OR UNIT	FLOOR PLAN DESIG	FIG	LEAD DESIGNATION		CURRENT DRAIN(AMPS)		LEAD SIZE (AWG)	PDF FUSE RATING	MAX DIS TO PDF (FT)		FRAME AMPS FULLY EQUIPPED	REMARKS
			SUPPLY	RETURN	LIST 1 AT 52V	LIST 2 AT 43.75V						
CONTROL UNIT FRAME J1C129A-	CU	FS5	-48A	RTNA	3	3	12	20	25		L1=36 L2=42	
			-48B	RTNB	3	3	12					
			-48C	RTNC	7.5	9	10					
			-48D	RTND	7.5	9	10					
			-48E	RTNE	7.5	9	10					
			-48F	RTNF	7.5	9	10					
PERIPHERAL CONTROL FRAME J1C130B- J1C168A-	PC-0	FS7	-48A	RTNA	6	8	10	20	25		L1=16.5 L2=20	
			-48B	RTNB	7.5	9	10	20	25			
			-48C	RTNC	3	3	12	20	25			
PERIPHERAL CONTROL FRAME J1C130B- J1C168A-	PC-1	FS7	-48A	RTNA	6	8	10	20	25		L1=17 L2=24.5	
			-48B	RTNB	7.5	9	10	20	25			
			-48C	RTNC	3	3	12	20	25			
			-48D	RTND	0.5	0.5	12	20	50			
I/O GROWTH FRAME J1C136A-	I/O	FS10	-48A	RTNA	3	3	12	20	25		L1=21 L2=24	
			-48B	RTNB	7.5	9	10	20	25			
			-48C	RTNC	3	3	12	20	25			
			-48D	RTND	7.5	9	10	20	25			
DFC GROWTH FRAME J1C137A-	DFC	FS6	-48A	RTNA	6	7	10	20	25		L1=12 L2=14	
			-48B	RTNB	6	7	10	20	25			
TAPE UNIT FRAME J1C134A-	TU	FS9	-48A	RTNA	4	5	10	20	25		L1=8 L2=10	
			-48B	RTNB	4	5	10	20	25			
MOVING HEAD DISK FRAME J1C131B- J1C169A-	MHD	FS8	-48	RTN	2	3	10	20	25		LIST 1= 37(47)AMPS LIST 2= 45(56)AMPS	2KVA INVERTER FOR 300 MBYTE DISK PROVIDES 208V,60HZ,1PHASE. TO CALCULATE CURRENT DRAIN, USE I=35N+10 WHERE N=NO OF DISKS
			N48V	N48R	35(45)	42(53)	6	50	25			

305.

TABLE B 3B200 MODEL 2 NEGATIVE 48V DC REQUIREMENTS

FRAME OR UNIT	FLOOR PLAN DESIG	FIG	LEAD DESIGNATION		CURRENT DRAIN(AMPS)		LEAD SIZE (AWG)	PDF FUSE RATING	MAX DIS TO PDF (FT)		FRAME AMPS FULLY EQUIPPED	REMARKS
			SUPPLY	RETURN	LIST 1 AT 52V	LIST 2 AT 43.75V						
PROCESSOR CONTROL FRAME J1C147B-	PCF BAY 0	FS11	-48A	RTNA	2	3	10	20	25		LIST 1= 47 AMPS LIST 2= 55 AMPS	
			-48B	RTNB	4	4	10	20				
			-48C	RTNC	SPARE	SPARE	-	-				
			-48D	RTND	12	14	10	20				
			-48E	RTNE	5	6						
			-48F	RTNF	10	12						
			-48G	RTNG	6	7						
			-48H	RTNH	7	8						
			-48J	RTNJ	1	1						
PROCESSOR CONTROL FRAME J1C147B-	PCF BAY 1	FS11	-48A	RTNA	2	3	10	20	25		LIST 1= 46 AMPS LIST 2= 54 AMPS	
			-48B	RTNB	4	4	10	20				
			-48C	RTNC	SPARE	SPARE	-	-				
			-48D	RTND	12	14	10	20				
			-48E	RTNE	5	6						
			-48F	RTNF	10	12						
			-48G	RTNG	6	7						
			-48H	RTNH	7	8						
160M BYTE MINI MODULE DISK FRAME J1C149A-	MMD	FS12	-48A	RTNA	10	12	6	40	25		LIST 1= 30 AMPS LIST 2= 36 AMPS	1200VA INVERTER PROVIDES 120VAC,60HZ,1 PHASE. DC IN RUSH CURRENT= 40A DISK AC IN RUSH CURRENT=27A (6 SEC) DISK AC RUN CURRENT=4A
			-48B	RTNB	10	12	6	40	25			
			-48C	RTNC	10	12	6	40	25			
HIGH SPEED TAPE FRAME J1C134B-	TU	FS13	-48A	RTNA	5	8	10	20	25		LIST 1= 10 AMPS LIST 2= 18 AMPS	300VA INVERTER PROVIDES 120VAC,60HZ,1 PHASE. TAPE AC IN RUSH CURRENT=9A (150 MS) TAPE AC RUN CURRENT= 2A
			-48B	RTNB	5	8	10	20	25			
MOVING HEAD DISK FRAME J1C131B-	MHD	FS8	-48	RTN	2	3	10	20	25		LIST 1= 37(47) AMPS LIST 2= 45(56) AMPS	2KVA INVERTER FOR 300 MBYTE DISK PROVIDES 208V,60HZ,1PHASE, TO CALCULATE CURRENT DRAIN,USE I=35N+10 WHERE N=NO OF DISKS
			N48V	N48R	35(45)	42(53)	6	50	25			

AC & DC POWER DISTRIBUTION

DWG SIZE: 8S | ISSUE: 3A

BELL LABORATORIES | SD-4C053-01 | SHEET: D#1

INFORMATION NOTES: (CONT)

306.

TABLE C 3B200 MODEL 2 NO. 5 ESS APPLICATION NEGATIVE 48V DC REQUIREMENTS

FRAME OR UNIT	FLOOR PLAN DESIG	FIG.	LEAD DESIGNATION SUPPLY	LEAD DESIGNATION RETURN	CURRENT DRAIN(AMPS) LIST 1&3 AT 52V	CURRENT DRAIN(AMPS) LIST 2 AT 43.75V	LEAD SIZE (AWG)	PDF FUSE RATING	MAX DIS TO PDF (FT)		FRAME AMPS FULLY EQUIPPED	REMARKS
PROCESSOR CONTROL CABINET J1C173A-	PCCA	FS15	-48A -48B -48C -48D -48E -48F -48G -48H -48J	RTNA RTNB RTNC RTND RTNE RTNF RTNG RTNH RTNJ	2 4 SPARE 12 5 10 6 7 1	3 4 SPARE 14 6 12 7 8 1	10 10 — 10	20 20 — 20	25		LIST 1 & 3 = 47 AMPS LIST 2 = 55 AMPS	
PROCESSOR CONTROL CABINET J1C173A-	PCCB	FS15	-48A -48B -48C -48D -48E -48F -48G -48H	RTNA RTNB RTNC RTND RTNE RTNF RTNG RTNH	2 4 SPARE 12 5 10 6 7	3 4 SPARE 14 6 12 7 8	10 10 — 10	20 20 — 20	25		LIST 1 & 3 = 46 AMPS LIST 2 = 54 AMPS	
DISK POWER CABINET J1C175A-	DPWRC	FS16	-48A -48B -48C -48D -48E -48F	RTNA RTNB RTNC RTND RTNE RTNF	35(45) 2 35 2 35 2	42(53) 3 42 3 42 3	6 10 6 10 6 10	50 20 50 20 50 20	25		LIST 1 & 3 = 121 AMPS LIST 2 = 146 AMPS	2KVA INVERTERS FOR 300 MBYTE DISKS. FOR CURRENT DRAINS USE I=35N+10 WHERE N=NO OF DISKS.
TAPE UNIT CABINET J1C174A-	TU	FS14	-48A	RTNA	4	5	10	20	25		LIST 1 & 3 = 4 AMPS LIST 2 = 5 AMPS	PLACE 1ST TAPE UNIT ON BUS A TAPE 2ND TAPE UNIT ON BUS B, ETC

INFORMATION NOTES: (CONT)

306.1

TABLE D 3B2GD MODEL 3 NEGATIVE 48V DC REQUIREMENTS

FRAME OR UNIT	FLOOR PLAN DESIG	FIG	LEAD DESIGNATION SUPPLY	LEAD DESIGNATION RETURN	CURRENT DRAIN (AMPS) LIST 1&3 AT 52V	CURRENT DRAIN (AMPS) LIST 2 AT 43.75V	LEAD SIZE (AWG)	PDF FUSE RATING	MAX DIS TO PDF (FT)	FRAME AMPS FULLY EQUIPPED	REMARKS
PROCESSOR CONTROL CABINET J1C187A-1	PROC BAY 0	FS19	-48A -48B -48C -48D -48E -48F -48G -48H -48J	RTNA RTNB RTNC RTND RTNE RTNF RTNG RTNH RTNJ	2 4 SPARE 12 5 10 6 7 1	3 4 SPARE 14 6 12 7 8 1	10 10 – 10	20 20 – 20	25	LIST 1 & 3 = 47 AMPS LIST 2 = 55 AMPS	CABINETIZED VERSION OF J1C147B-1
PROCESSOR CONTROL CABINET J1C187A-1	PROC BAY 1	FS19	-48A -48B -48C -48D -48E -48F -48G -48H	RTNA RTNB RTNC RTND RTNE RTNF RTNG RTNH	2 4 SPARE 12 5 10 6 7	3 4 SPARE 14 6 12 7 8	10 10 – 10	20 20 – 20	25	LIST 1 & 3 = 46 AMPS LIST 2 = 54 AMPS	CABINETIZED VERSION OF J1C147B-1
TAPE/DISK CABINET J1C186A-1	T/DC	FS17 & FS18	-48A -48B -48C -48D -48E -48F -48G -48H	RTNA RTNB RTNC RTND RTNE RTNF RTNG RTNH	7	11	10 8 6 4	20	50 80 125 200	4 DISKS LIST 1 & 3=26 AMPS LIST 2 = 31 AMPS 8 DISKS LIST 1 & 3=50 AMPS LIST 2 = 60 AMPS SEE REMARKS	NO. OF 340MB DISKS / LEAD NAMES / PDF BUS 4 — A,B — E,F — A,B 8 — A,B,C,D — E,F,G,H — A,B
I0P/DFC GROWTH CABINET J1C164B-1	I0P/ DFC	FS20	-48B -48D -48G -48H -48J -48A,C,E,F	RTNB RTND RTNG RTNH RTNJ RTNA,C,E,F	13 13 4 4 1 SPARES	15 15 4 4 1 SPARES	10	20	25	LIST 1 & 3=35 AMPS LIST 2 = 39 AMPS	

SEE PROPRIETARY NOTICE ON COVER SHEET

AC & DC POWER DISTRIBUTION		DWG SIZE B3	ISSUE 4B
AT&T BELL LABORATORIES	SD-4C053-01		SHEET D of 3

INFORMATION NOTES: (CONT)

307.

TABLE E AC LOADS

LOAD		VOLTS	PHASE	AMPS RUN	AMPS START	WIRE SIZE LOAD	WIRE SIZE GRD	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLES	BUS	RECEPTACLE TYPE NEMA NO.	CORD LENGTH (FT)	UNIT FUSE AMPS	UNIT FUSE TYPE	FLOOR PLAN DESIG	REMARKS
OPERATORS VIDEO TERMINAL		120	1	1.0	1.0	2 NO.14	NO.14	15	1	PROTECTED	5 15R	6	7.5	KS15815 L-47		
LINE PRINTER		120	1	2.0	3.0	2 NO.14	NO.14	15	1	PROTECTED	5 15R	6	5.0	70D		VOLT RANGE = 104-127V FREQ RANGE = 48-62HZ
208A DATA SET		120	1	0.3	0.3	2 NO.14	NO.14	15	1	PROTECTED	5 15R	6	2.0	70B		SEVERAL MAY BE PLACED ON SAME CCT
MISCELLANEOUS CABINET (MODEL 3)	RECT NO.1	208-220	3	13	30	3 NO.10	NO.10	30	3	PROTECTED	L15 30R	9	—	—	MIS	VOLT RANGE = 184-220V FREQ RANGE = 57-63HZ
	RECT NO.2	208-220	3	13	30	3 NO.10	NO.10	30	3	PROTECTED	L15 30R	9	—	—		
TAPE UNIT		120	1	3	9	2 NO.14	NO.14	15	1	—	5 15R	—	—	—		VOLT RANGE = 106-128V FREQ RANGE = 59-60.6HZ START CURRENT LASTS 150MSEC

AC & DC POWER DISTRIBUTION

DWG SIZE 88

ISSUE 4B

AT&T BELL LABORATORIES

SD- 4C053-01

SHEET D.# 4

INFORMATION NOTES: (CONT'D)

308.

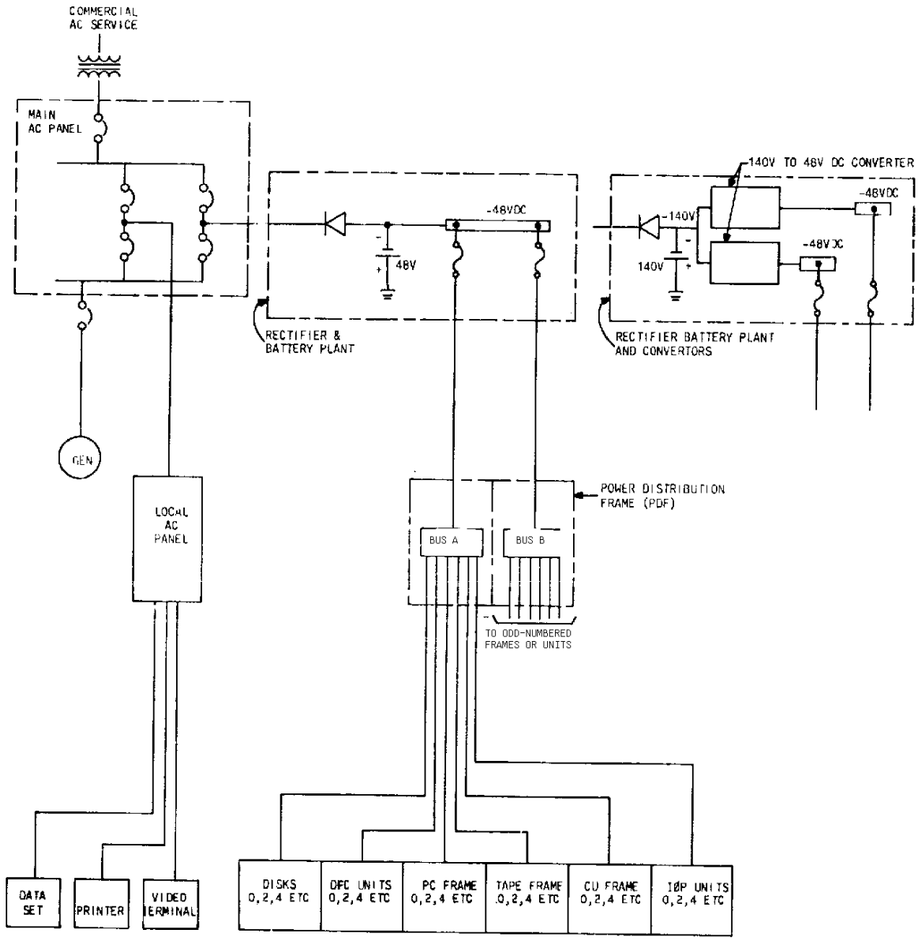


FIG 1

ONE-LINE DIAGRAM: TYPICAL AC & DC POWER DISTRIBUTION SYSTEM.

AC & DC POWER DISTRIBUTION		DWG SIZE B	ISSUE 4B
AT&T BELL LABORATORIES	SD-4C053-01		SHEET D#5

INFORMATION NOTES: (CONT'D)

309.

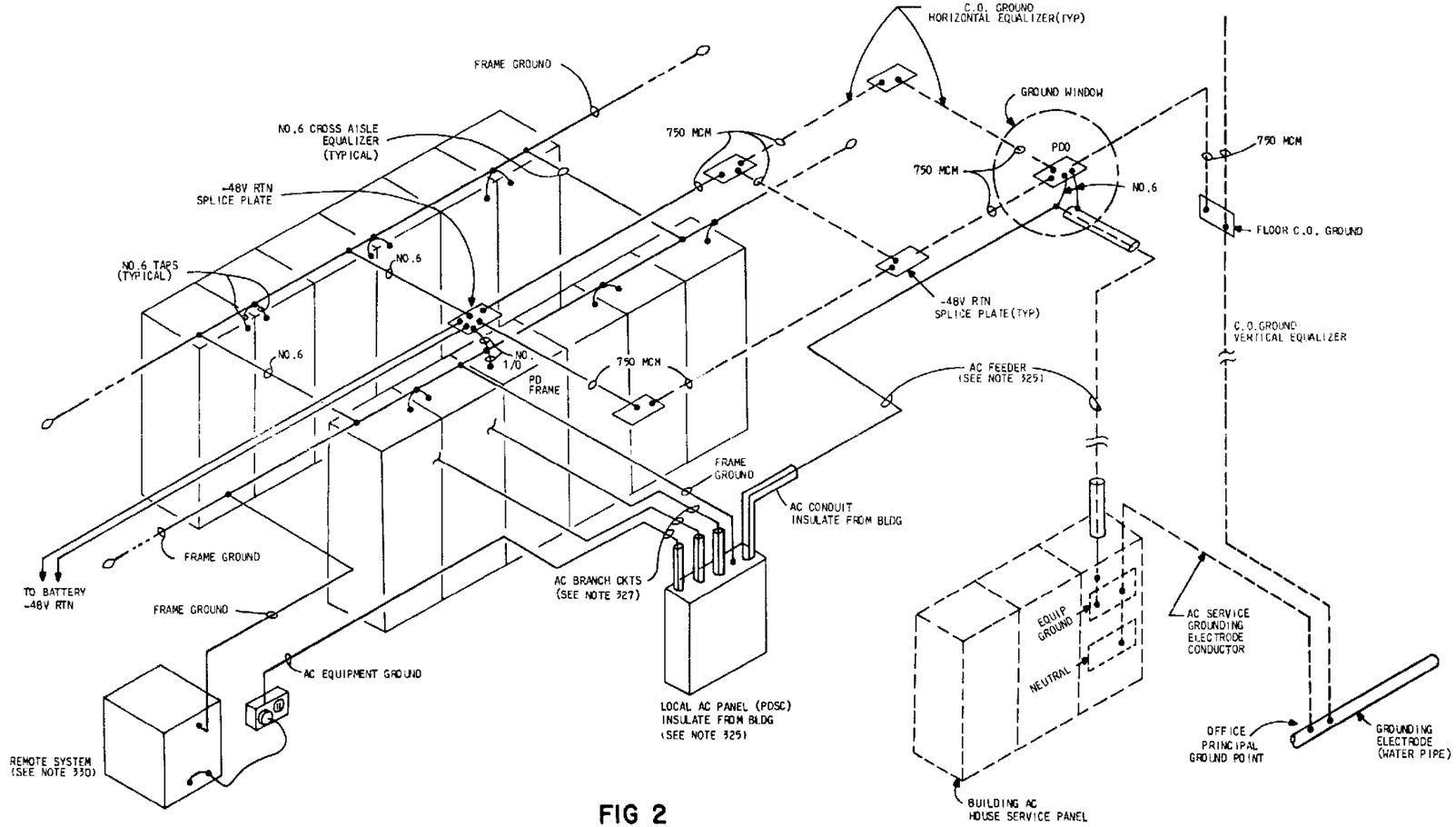


FIG 2

3B20 PROCESSOR GROUNDING SYSTEM
TYPICAL FOR SITUATION IN WHICH AC PANEL INSULATED FROM BUILDING

AC & DC POWER DISTRIBUTION	DWG SIZE B	ISSUE 4B
AT&T BELL LABORATORIES	SD-4C053-01	SHEET D#6

INFORMATION NOTES: (CONT'D)

310.

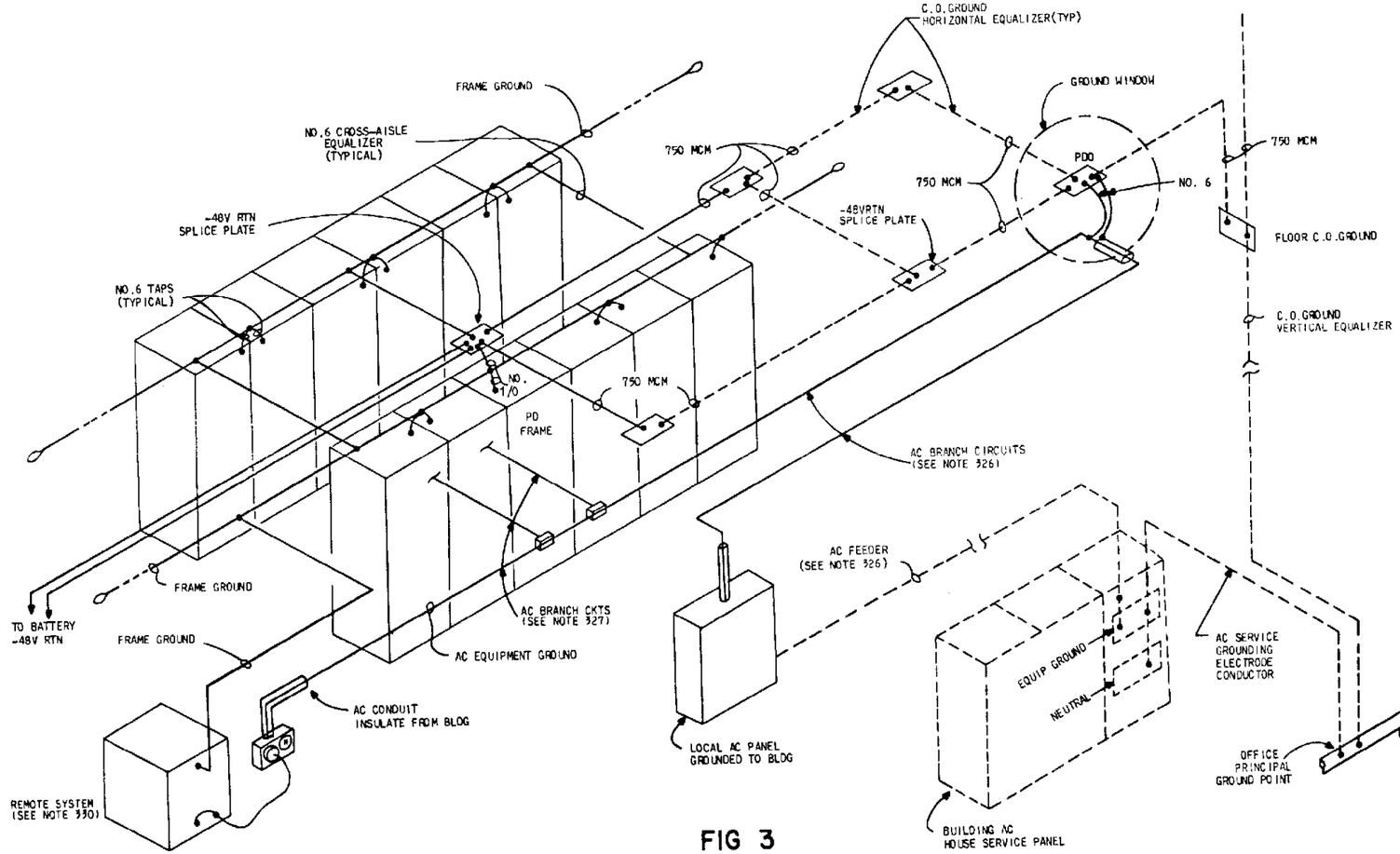


FIG 3

3B20 PROCESSOR GROUNDING SYSTEM
TYPICAL FOR SITUATION IN WHICH AC PANEL
GROUNDED TO BUILDING

AC & DC POWER DISTRIBUTION	DWG SIZE 88	ISSUE 4B
AT&T BELL LABORATORIES SD-4C053-01		SHEET D-#7

INFORMATION NOTES: (CONT'D)

311.

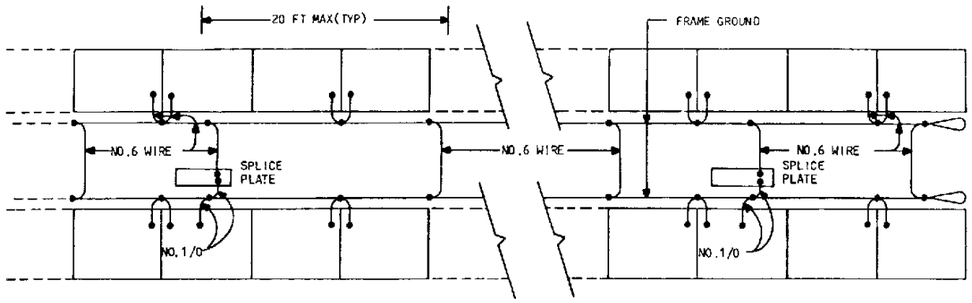


FIG 4

CROSS-AISLE CONNECTIONS FOR
TWO OR MORE PROCESSOR SYSTEMS

312.

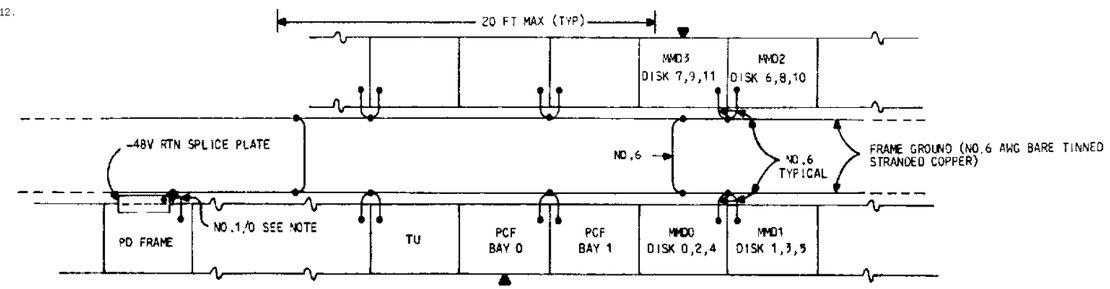


FIG 5

3B20D PROCESSOR GROUNDING
PD FRAME REMOTE FROM
PROCESSOR TWO-AISLE LINEUP

NOTES:

1. TYPICAL FOR JB6334B AND JB6334C PD FRAMES. OTHER SYSTEMS MAY VARY.
2. TYPICAL FOR ALL 3B20 PROCESSORS, SKETCHES SHOWN FOR 3B20D MODEL 2 WITH 160 MBYTE DISKS.

INFORMATION NOTES: (CONT'D)

313.

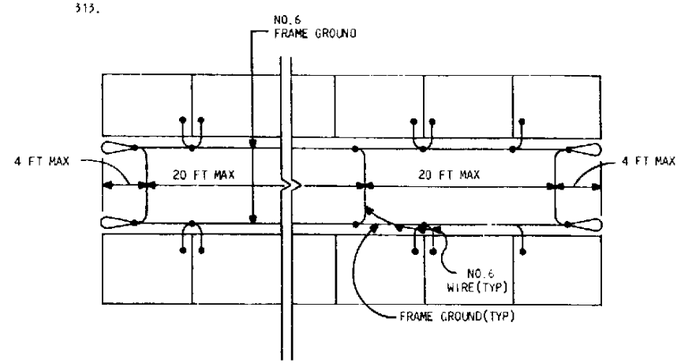
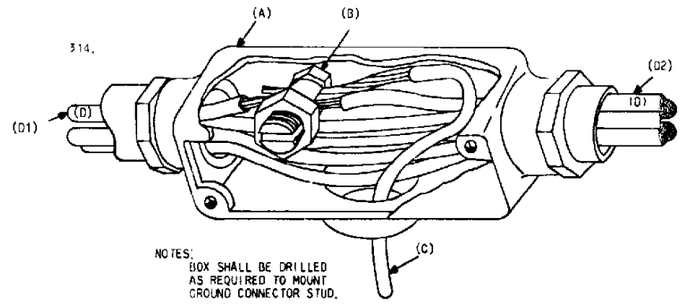


FIG 6

CROSS AISLE CONNECTIONS
FOR LONG 3B20D EQUIPMENT LINEUPS

314.



NOTES:
BOX SHALL BE DRILLED AS REQUIRED TO MOUNT GROUND CONNECTOR STUD.

(A) SPLICE BOX - KONDU T3 FITTING OR SIMILAR (MOD - NOTE)
(B) GROUND CONNECTOR - BURNDY CAT K2C3 OR SIMILAR
(C) NO.6 GROUND BOND TO MAIN GROUND BUS
(D) AC EQPT GRD CONDUCTOR (GREEN WIRE)
(D1) FROM AC SUPPLY (EM-PLT OR PSC)
(D2) TO AC DISTRIBUTION EQPT IN MPD

FIG 7

METHOD OF CONNECTING AC EQUIPMENT GROUND
CONDUCTOR TO MAIN GROUND BUS AT GROUND WINDOW.

AC & DC POWER DISTRIBUTION	DWG SIZE: B8	ISSUE: 4B
AT&T BELL LABORATORIES	SD-4C053-01	SHEET: D#W 8

INFORMATION NOTES: (CONT'D)

316.

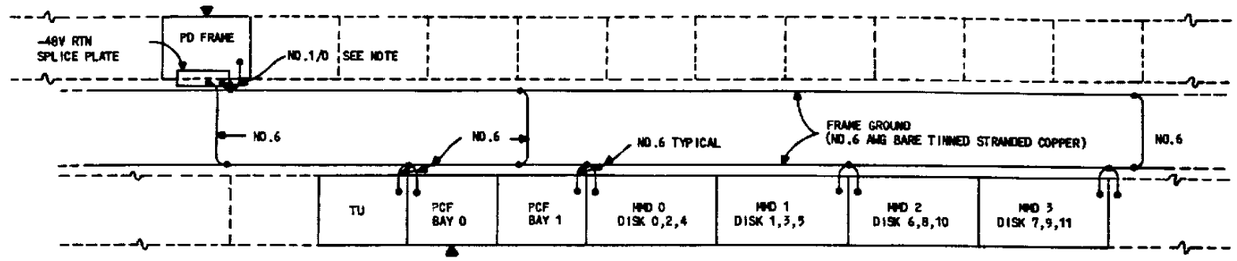


FIG 8

3B20D PROCESSOR GROUNDING
PD FRAME REMOTE FROM PROCESSOR
SINGLE AISLE LINEUP

NOTES:

1. TYPICAL FOR J86334B AND J86334C PD FRAMES. OTHER SYSTEMS MAY VARY.
2. TYPICAL FOR ALL 3B20 PROCESSORS. SKETCHES SHOWN FOR 3B20D MODEL 2 WITH 160 MBYTE DISKS.

317.

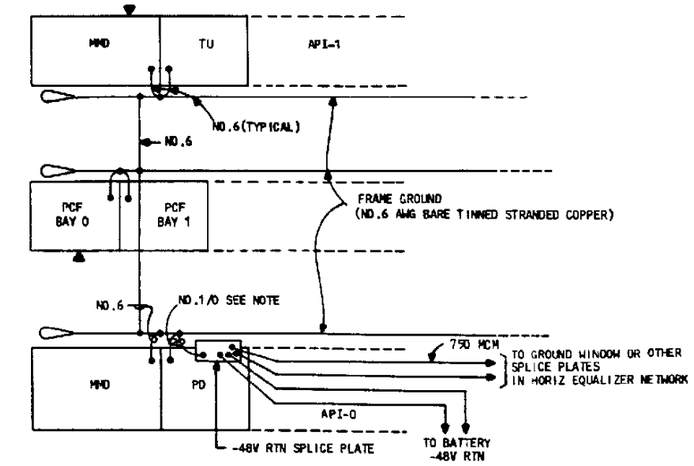


FIG 9

3B20D PROCESSOR GROUNDING
NO. 1A ESS ATTACHED PROCESSOR APPLICATION

NOTE: TYPICAL FOR J86334B AND J86334C PD FRAMES. OTHER SYSTEMS MAY VARY.

AC & DC POWER DISTRIBUTION	DWG SIZE: 8S	ISSUE: 4B
AT&T BELL LABORATORIES	SD-4C053-01	SHEET: D#19

INFORMATION NOTES: (CONT'D)

318. PROVIDE NO.6 AWG BARE STRANDED TINNED COPPER WIRE CONNECTION FROM FRAME GROUND WIRE TO EQUIPMENT FRAMES.

319. PROVIDE NO.6 AWG BARE STRANDED TINNED COPPER WIRE "CROSS-AISLE" CONNECTIONS (IE "CROSS-AISLE EQUALIZER") BETWEEN FRAME GROUND WIRES ON FRAME LINEUPS SEPARATED BY AISLE PROVIDE CROSS-AISLE CONNECTIONS WITHIN 4 FT OF EACH END OF FRAME GROUND WIRES AND AT INTERVALS NOT TO EXCEED 20 FT.

320. PROVIDE NO.1/0 AWG WIRE CONNECTION BETWEEN -48V RTN SPLICE PLATE LOCATED ABOVE PD FRAME TO FRAME OF PD FRAME. ATTACH CONNECTION TO FRAME USING BOLTS AND TWO-HOLE LUGS ON COMPRESSION TYPE WIRE TERMINATIONS. ALSO PROVIDE CONNECTION TO FRAME GROUND.

321. PROVIDE NO.6 AWG BARE STRANDED TINNED COPPER WIRE CONNECTION FROM MID-POINT OF CONTINUOUS FRAME GROUND WIRE TO -48V RTN SPLICE PLATE.

322. PROVIDE NO. 6 AWG BARE STRANDED TINNED COPPER WIRE CONNECTION FROM AC EQUIPMENT GROUNDING CONDUCTOR TO SPLICE PLATE AT GROUND WINDOW.

323. INSULATE AC FEEDER CONDUIT AND EQUIPMENT GROUNDING CONDUCTOR FROM BUILDING GROUND AFTER FEEDER PASSES THROUGH GROUND WINDOW.

324. WHERE TWO OR MORE 3820 PROCESSORS ARE LOCATED NEXT TO EACH OTHER:

A. EXTEND CONTINUOUS FRAME GROUND WIRE ALONG ENTIRE LENGTH OF PROCESSOR LINEUP

B. PROVIDE CROSS-AISLE CONNECTIONS AS PER NOTE 319 WITH TWO CROSS-AISLE CONNECTIONS MINIMUM, FOR EACH PROCESSOR

C. PROVIDE CONNECTION BETWEEN -48V RTN SPLICE PLATE AND FRAME OF PD FRAME AS PER NOTE FOR EACH PROCESSOR.

325. WHERE FEEDER GOES TO GROUND WINDOW, INSULATE LOCAL AC PANEL AND BRANCH CIRCUITS FROM BUILDING GROUND.

326. WHERE FEEDER GOES DIRECTLY TO AC PANEL AND AC PANEL GROUNDED TO BUILDING GROUND, BRANCH CIRCUITS SHALL PROCEED TO GROUND WINDOW WHERE THE CONDUIT AND AC EQUIPMENT GROUND SHALL BE CONNECTED TO GROUND WINDOW. BEYOND GROUND WINDOW, BRANCH CIRCUIT GROUNDS SHALL BE INSULATED FROM BUILDING GROUNDS.

327. BRANCH CIRCUITS SHOWN ARE TYPICAL. INSTALL AS NECESSARY TO SUPPLY AC LOADS.

328. SIZE OF FEEDER SHALL BE SAME SIZE AS CALCULATED FEEDER FROM POWER PLANT NOT TO EXCEED 350MCM. SPLICES SHALL BE MADE USING KS-21500 PARALLEL CONNECTORS.

329. SIZE OF FEEDER SHALL BE CALCULATED AS PER POWER PLANT DISCHARGE NOTES.

330. WHERE REMOTE UNIT CANNOT BE PROTECTED FROM INADVERTENT CONNECTION TO FOREIGN BUILDING GROUNDS:

A. ROUTE AC CIRCUIT THROUGH GROUND WINDOW

B. BOND CONDUIT AND ACEG TO GROUND BUS AT GROUND WINDOW, AND

C. BOND FRAME OF REMOTE UNIT TO C.O. GROUND RATHER THAN TO FRAME GROUND.

331. APPROVED EQUIVALENT IS NO. 7 AWG, TINNED, INSULATED, CU BRAID.

332. TAPE AND FORMATTER PLUG INTO FILTERED RECEPTACLES IN CABINET.

INFORMATION NOTES: (CONT'D)

333.

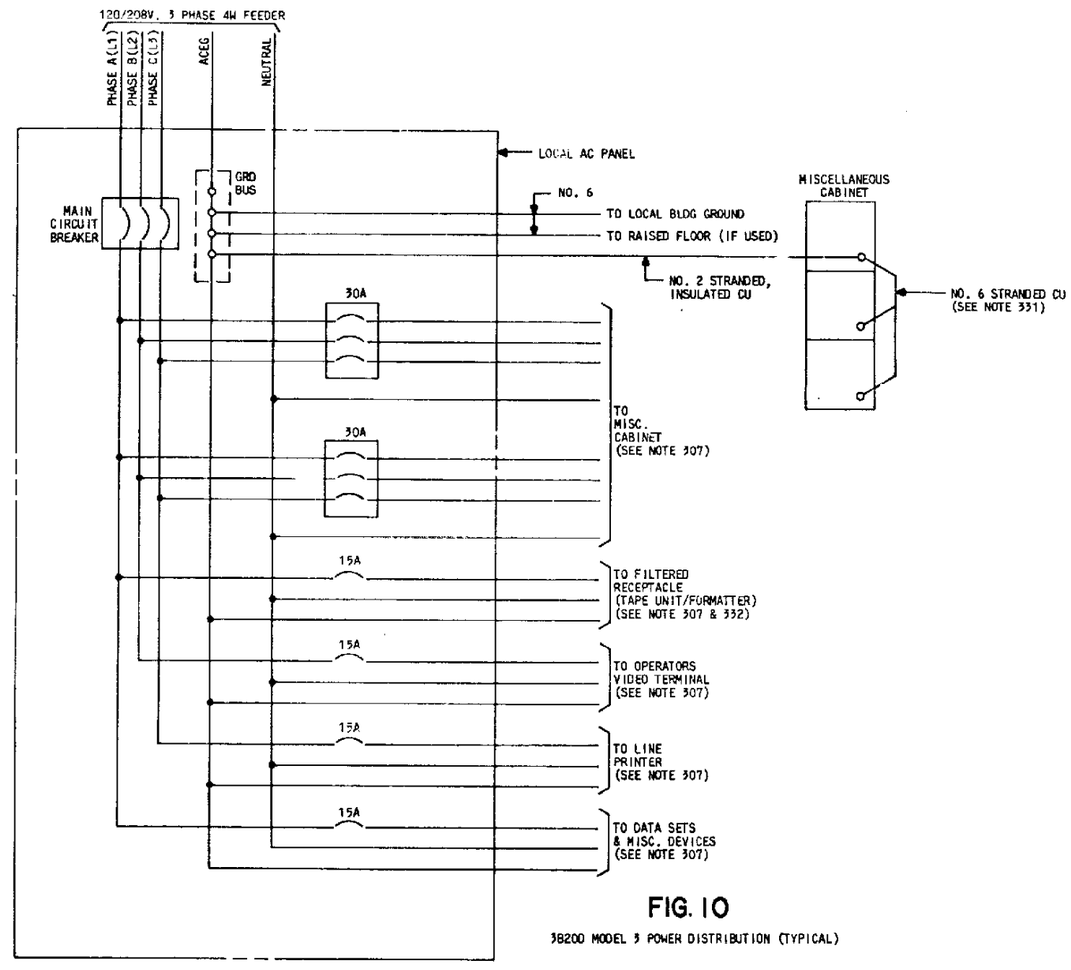


FIG. 10

3B200 MODEL 3 POWER DISTRIBUTION (TYPICAL)

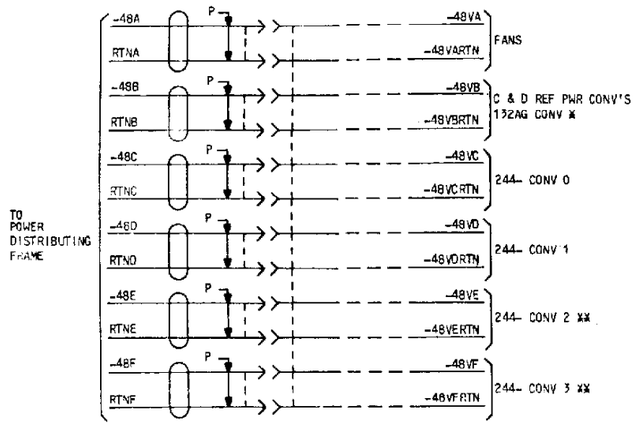
AC & DC POWER DISTRIBUTION

SIZE	ISSUE
B	4B

AT&T BELL LABORATORIES | SD-4C053-01 | SHEET D#10

CAD 1

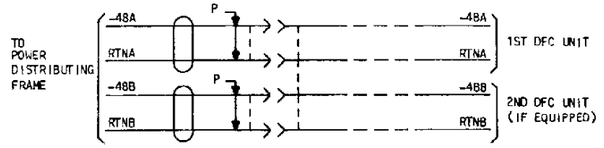
CONTROL UNIT FRAME
(J1C129A-)



* NOT PERMITTED WITH LIST 37
** NOT REQ'D WITH TN26 MEMORY BOARDS

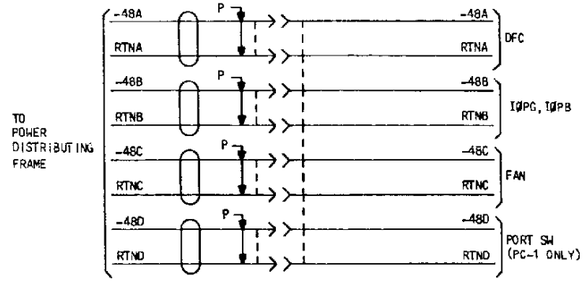
CAD 2

DFC GROWTH FRAME
(J1C137A-)



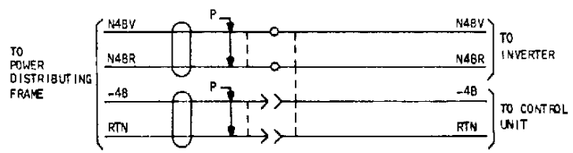
CAD 3

PERIPHERAL CONTROL FRAME
COMMON: (J1C150B-1)
NO.5 ESS: (J1C168A-1)



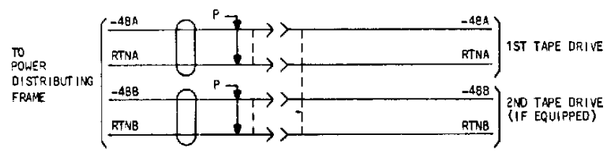
CAD 4

300M BYTE
MOVING HEAD DISK FRAME
COMMON: (J1C131B-)
NO.5 ESS: (J1C169A-)



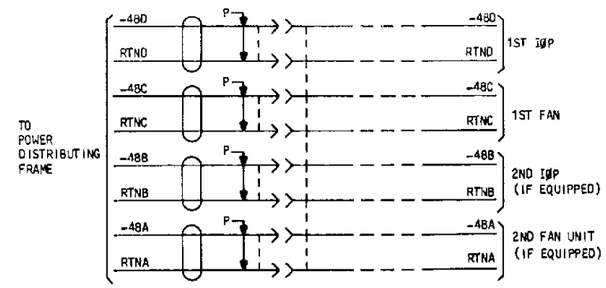
CAD 5

TAPE UNIT FRAME
(J1C134A-)



CAD 6

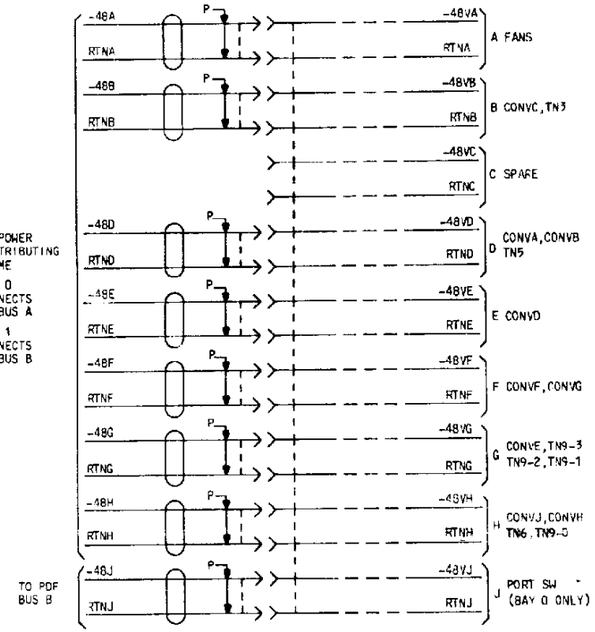
IØP GROWTH FRAME
(J1C136A-)



AC & DC POWER DISTRIBUTION	DWG SIZE: B8	ISSUE: 3A
BELL LABORATORIES	SD-4C053-01	SHEET: G1

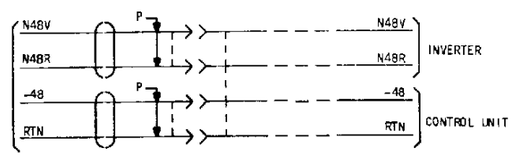
CAD 7

PROCESSOR CONTROL FRAME
(J1C147B-)



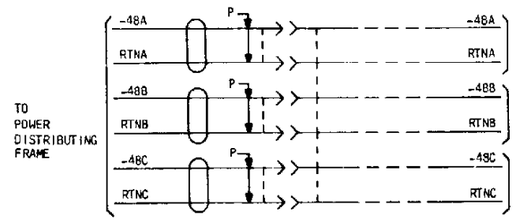
CAD 8

MOVING HEAD DISK FRAME
(J1C131B-)



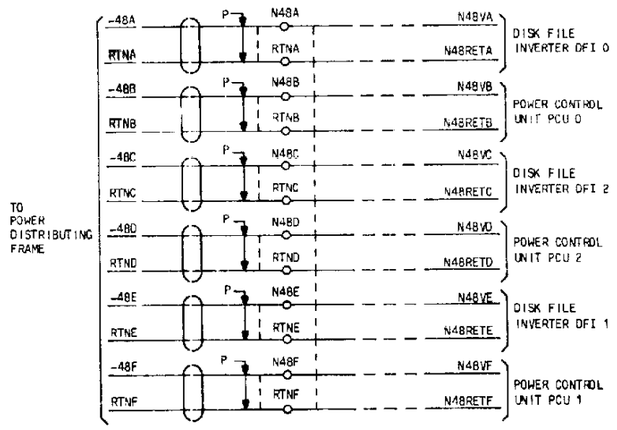
CAD 9

160M BYTE
MINI MODULE DISK FRAME
(J1C149B-)



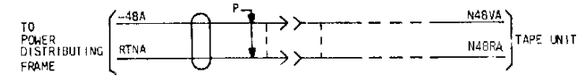
CAD 11

300M BYTE
DISK POWER CABINET
NO.5 ESS: (J1C175A-1)



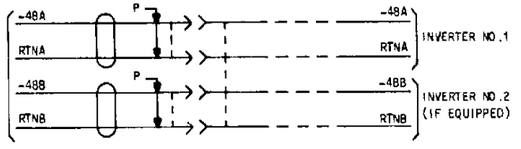
CAD 12

TAPE UNIT CABINET
NO.5 ESS: (J1C174A-)



CAD 10

HIGH SPEED TAPE FRAME
(J1C134B-)

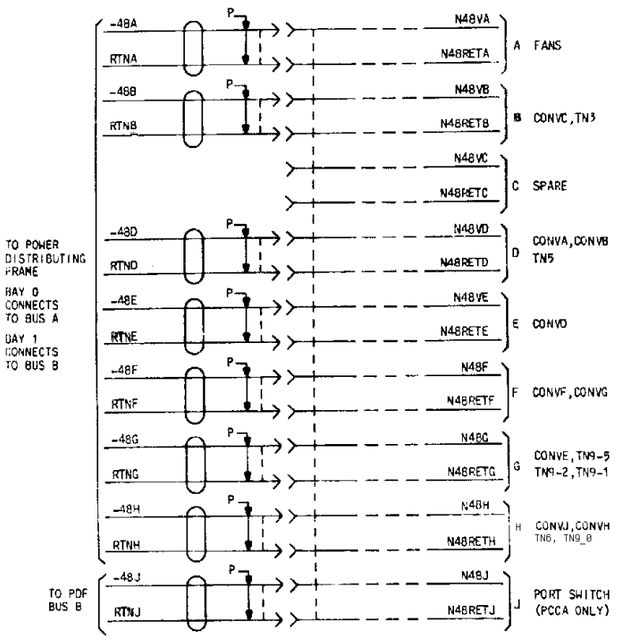


SEE PROPRIETARY NOTICE ON COVER SHEET

AC & DC POWER DISTRIBUTION		DWG SIZE: 68	ISSUE: 5A
AT&T BELL LABORATORIES	SD-4C053-01		SHEET: G2

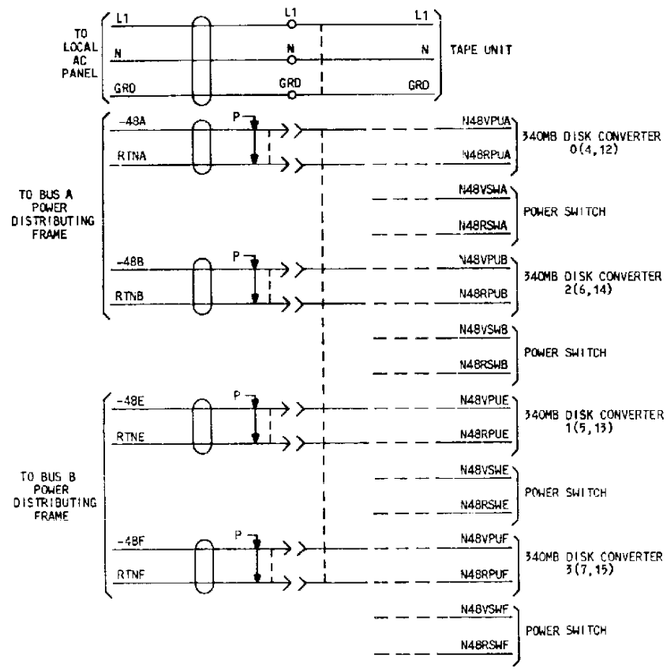
CAD 13

PROCESSOR CONTROL CABINET
NO.5 ESS: (J1C172A-1)



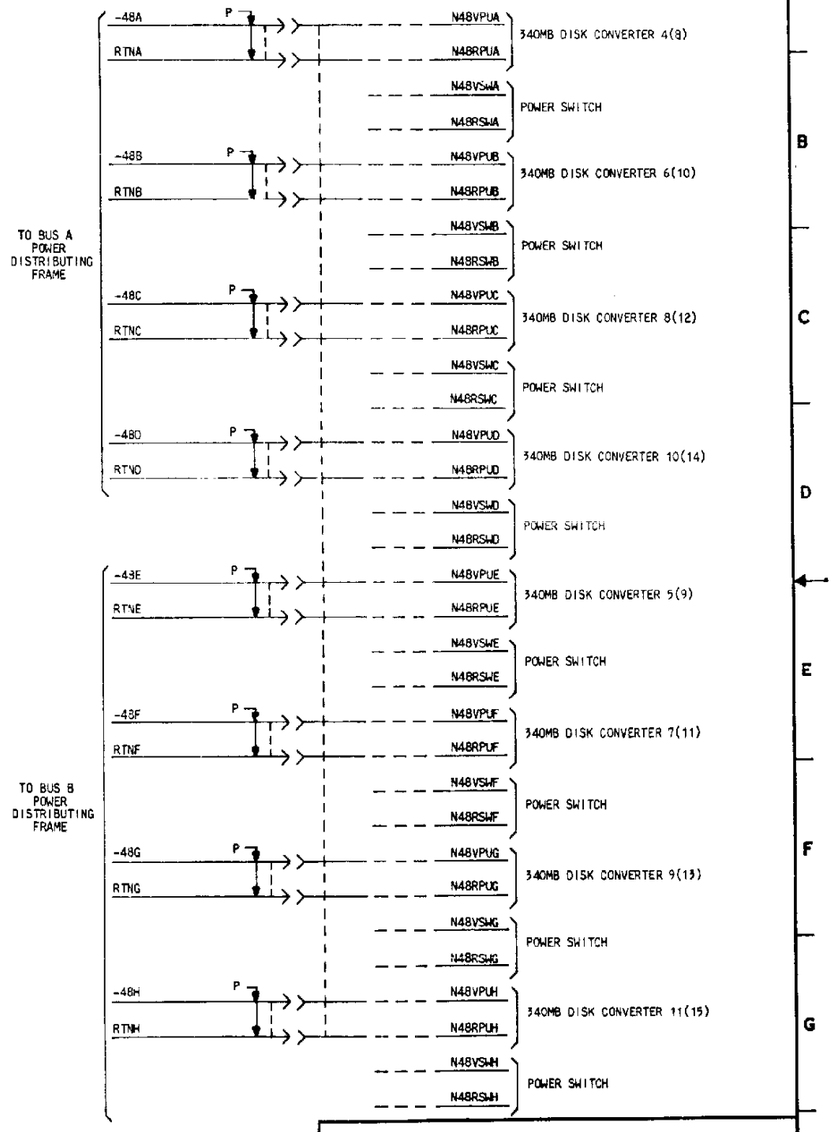
CAD 14

TAPE/DISK CABINET
(J1C186A-1 4 DISKS, 1 TAPE UNIT)



CAD 15

TAPE/DISK CABINET
(J1C186A-1, 8 DISKS)



AC & DC POWER DISTRIBUTION

DWG SIZE: B8
ISSUE: 5A

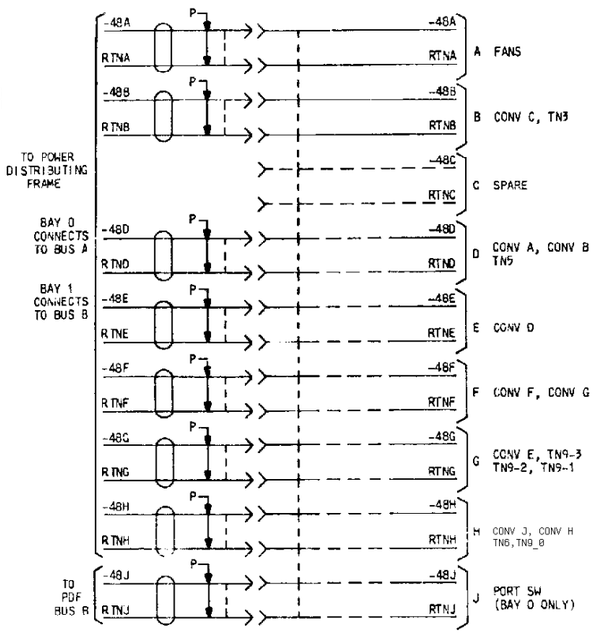
AT&T BELL LABORATORIES

SD- 4C053-01

SHEET: G3

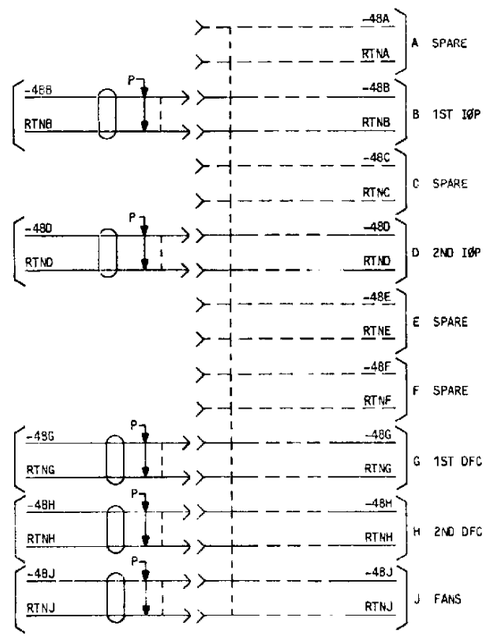
CAD 16

PROCESSOR CONTROL CABINET
MODEL 3 (J1C187A-1)



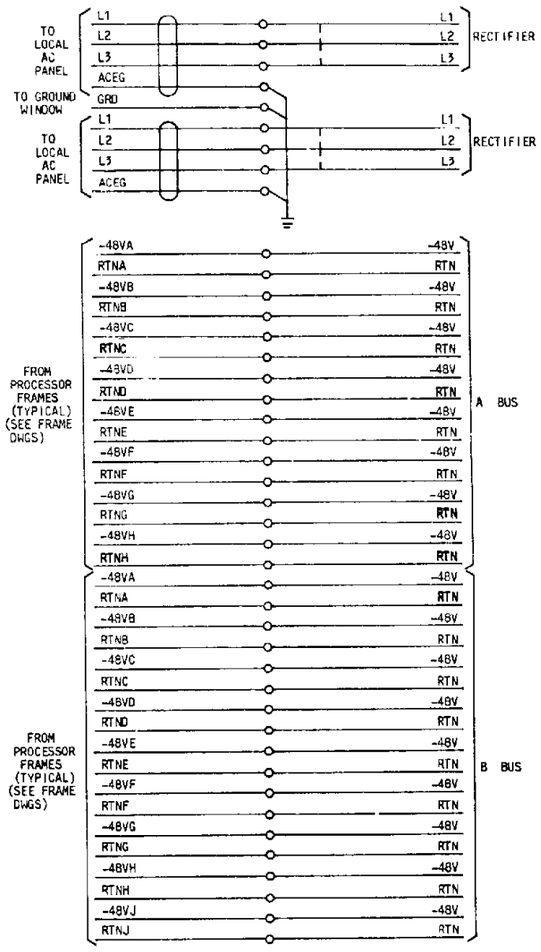
CAD 17

IØP/DFC GROWTH CABINET
MODEL 3 (J1C164B-1)



CAD 18

MISCELLANEOUS CABINET
MODEL 3 (J1C185A-1)



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