

0 1 2 3 4 5 6 7 8 9

DWG ISS	CD ISS	DATE ISSD	DRN	APP
1	1 APPX -	08-12-97	EBR	

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OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H

SUPPORTING INFORMATION

SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.

SHEET INDEX NOTES
1. ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX.
2. FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1.
3. THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.

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BT13

**SYNCHRONOUS TRANSPORT MODULE  
CABINET CIRCUIT**

DWG SIZE <b>C2</b>	ISSUE <b>1</b>
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Lucent Technologies      **SD-5D556-01**      SHEET 18 A1

0 1 2 3 4 5 6 7 8 9

## MNEMONICS TABLE

AS	= APPLICATION SCHEMATIC
CONN.	= CONNECTOR
CTL	= SYSTEM CONTROLLER
DPS	= DATA PACKED SWITCH
GND	= GROUND
LPU	= LINE PORT UNIT
MPFU	= MODULAR FUSE FILTER UNIT
NC	= NOT CONNECTED
PCT	= PERIPHERAL CONTROL AND TIMING
PPC	= PORT PROCESSOR AND CROSS-CONNECT
PSF	= POWER SUPPLY FILTER
SDH-TE	= SYNCHRONOUS DIGITAL HIERARCHY - TRANSPORT EQUIPMENT
STM-1	= SYNCHRONOUS TRANSPORT MODULE LEVEL 1
TGU	= TIMING GENERATOR UNIT
TPU	= TRIBUTARY PORT UNIT
UPL	= USER PANEL
5ESS	= 5TH GENERATION ELECTRONIC SWITCHING SYSTEMS

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SYNCHRONOUS TRANSPORT MODULE CABINET CIRCUIT	JUNE 24, 1997	
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# AS 1

6-FAN BIDIRECTIONAL FAN UNIT

SD-5D168-02  
J5D003FH-2

TO IND. STRIP FAN/FUSE FRONT (5)  
TO IND. STRIP FAN/FUSE FRONT (4)  
TO IND. STRIP FAN/FUSE REAR (4)

100  
102 J1  
112

TO TH. PROBE INLET  
TO TH. PROBE EXIT  
TO TH. PROBE EXIT  
TO TH. PROBE EXIT  
COMMON FOR TH. PROBES

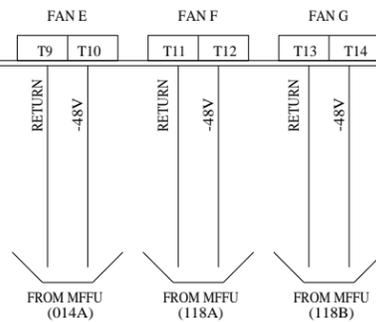
602  
603  
612 J6  
613  
615

202  
210 J2  
211  
212

FROM SDH CONN. BOX(76/000/05)  
FROM SDH CONN. BOX(76/000/08)  
FROM SDH CONN. BOX(76/000/09)  
FROM SDH CONN. BOX(76/000/04)

402  
410 J4  
411  
412

TO SDH CONN. BOX(76/005/05)  
TO SDH CONN. BOX(76/005/08)  
TO SDH CONN. BOX(76/005/09)  
TO SDH CONN. BOX(76/000/04)



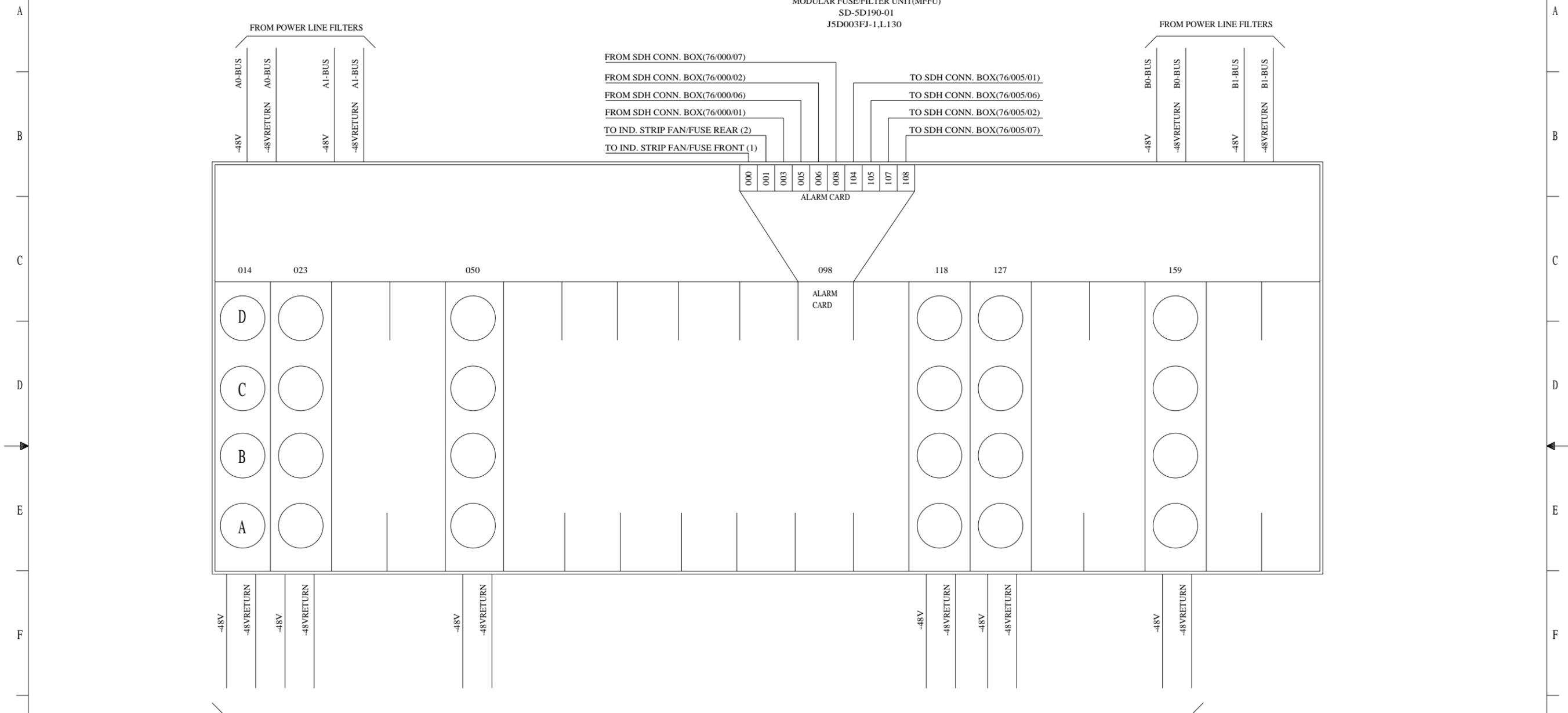
DESCRIPTION.

THIS FAN UNIT IS A SINGLE 8.50" HIGH X 24.50" WIDE SHELF WHICH PROVIDES FILTER FORCED AIR COOLING. THIS UNIT IS EQUIPPED WITH ONLY 3 OF THE POSSIBLE 6 FANS. THE FANS BLOW IN UPWARD DIRECTION.

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# AS 2

MODULAR FUSE-FILTER UNIT(MFFU)  
SD-5D190-01  
J5D003FJ-1,L,130



TO ASSOCIATED UNITS WITHIN CABINET

FUSE ASSIGNMENT

BUS	EQL	UNIT	AMP
A0	014-A	FAN E	3
A0	014-C	SDHTE(29)	7
A0	023-C	SDHTE(44)	7
A1	050-C	SDHTE(59)	7
B0	118-A	FAN F	3
B0	118-B	FAN G	3
B0	118-C	SDHTE(29)	7
B0	127-C	SDHTE(44)	7
B1	159-C	SDHTE(59)	7

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SYNCHRONOUS TRANSPORT MODULE  
CABINET CIRCUIT

JUNE 24, 1997  
DWG SIZE: C2  
ISSUE: 1

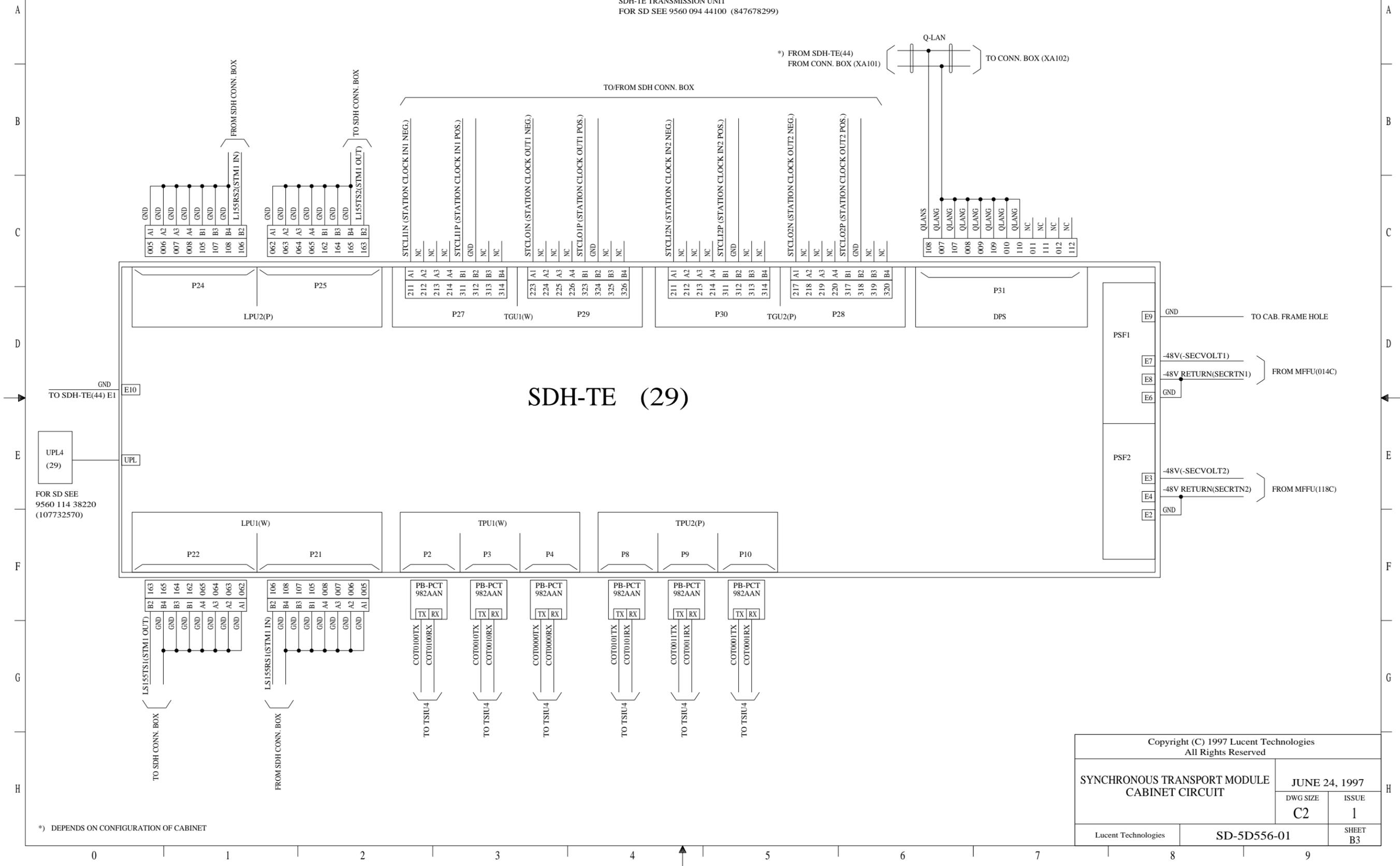
Lucent Technologies

SD-5D556-01

SHEET B2

# AS 3

SDH-TE TRANSMISSION UNIT  
FOR SD SEE 9560 094 44100 (847678299)

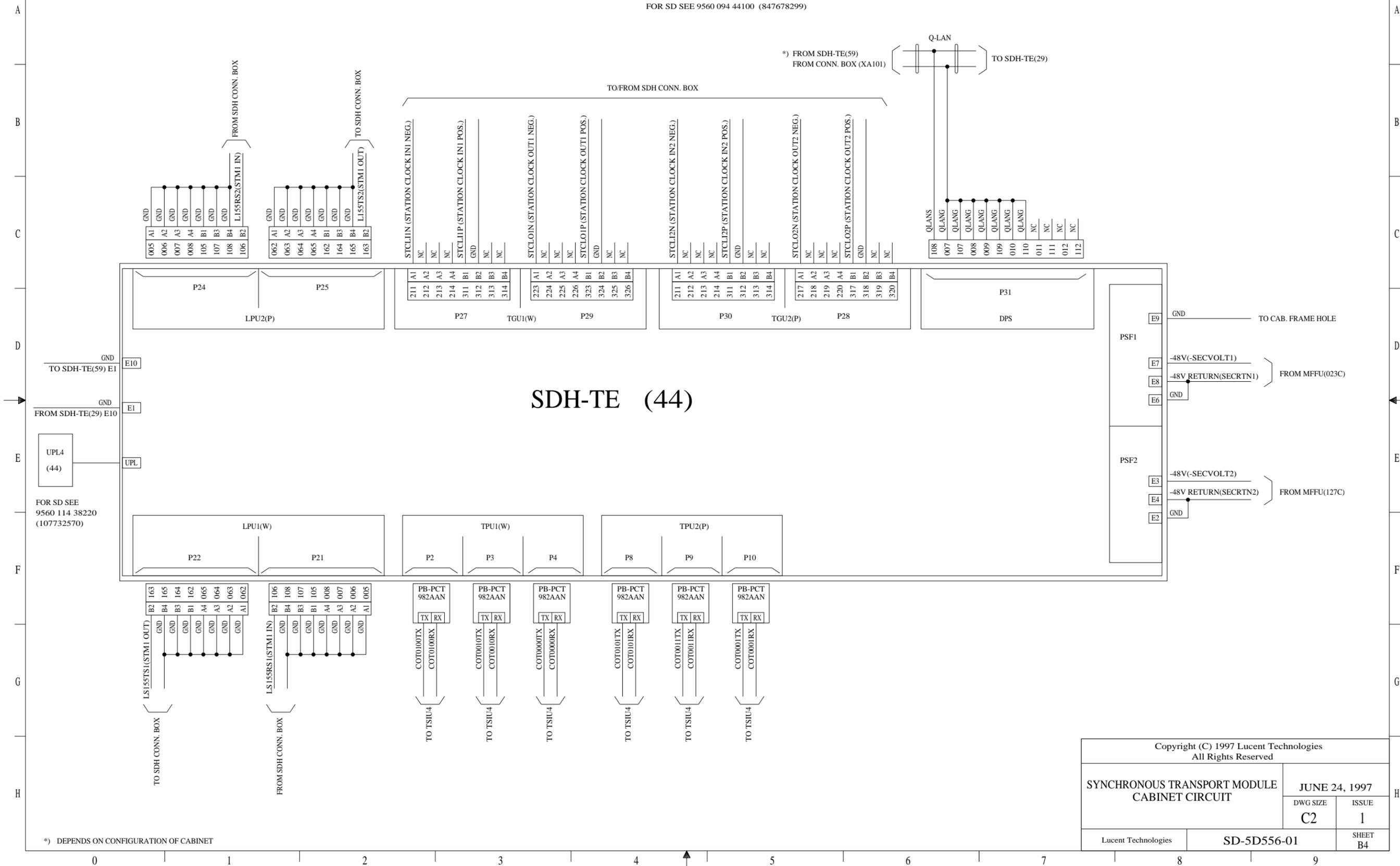


\*) DEPENDS ON CONFIGURATION OF CABINET

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# AS 4

SDH-TE TRANSMISSION UNIT  
FOR SD SEE 9560 094 44100 (847678299)



## SDH-TE (44)

FOR SD SEE  
9560 114 38220  
(107732570)

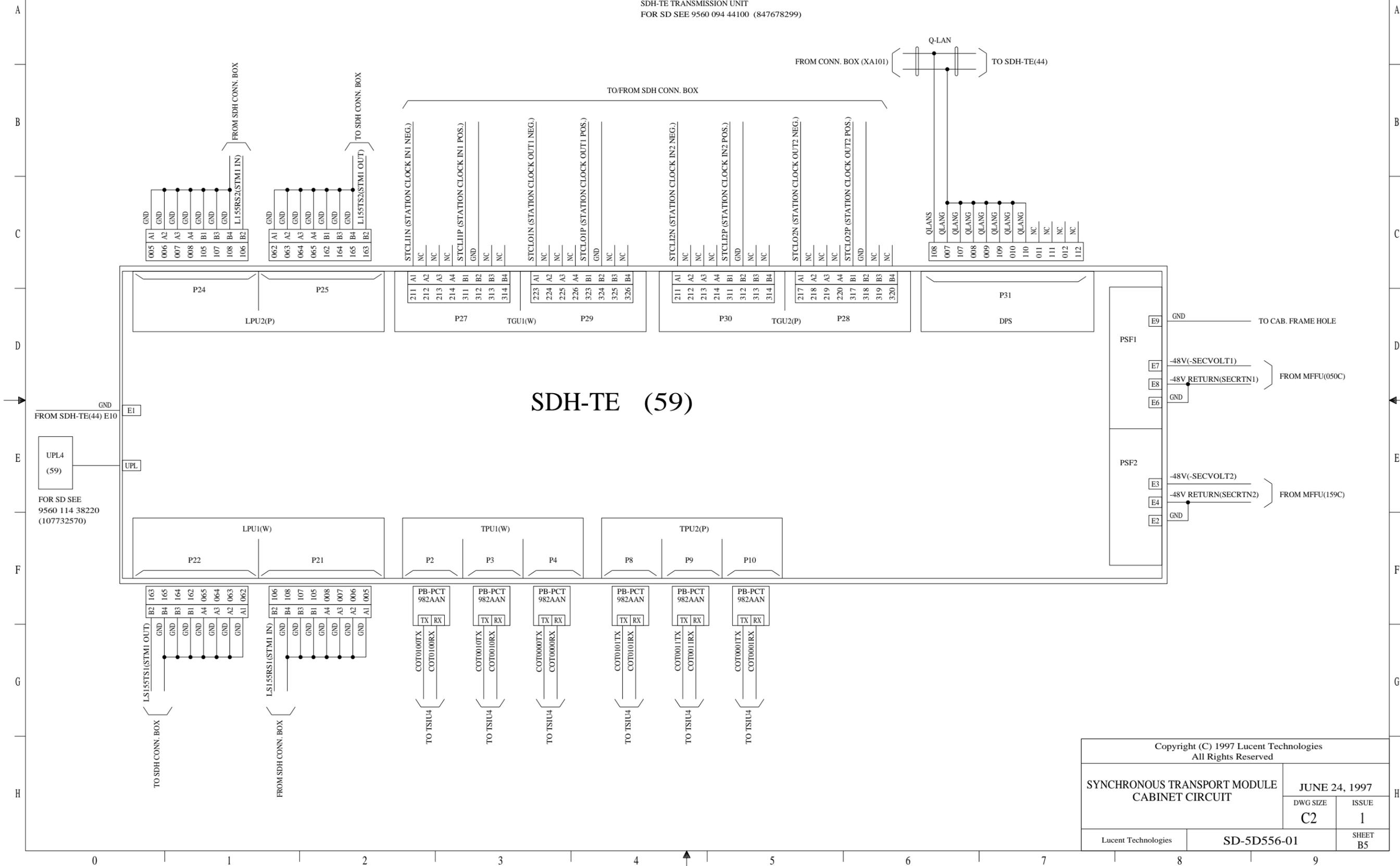
\*) FROM SDH-TE(59)  
FROM CONN. BOX (XA101) TO SDH-TE(29)

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SYNCHRONOUS TRANSPORT MODULE CABINET CIRCUIT	JUNE 24, 1997	
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\*) DEPENDS ON CONFIGURATION OF CABINET

# AS 5

SDH-TE TRANSMISSION UNIT  
FOR SD SEE 9560 094 44100 (847678299)



FROM SDH-TE(44) E10  
GND  
E1  
UPL4 (59)  
UPL  
FOR SD SEE  
9560 114 38220  
(107732570)

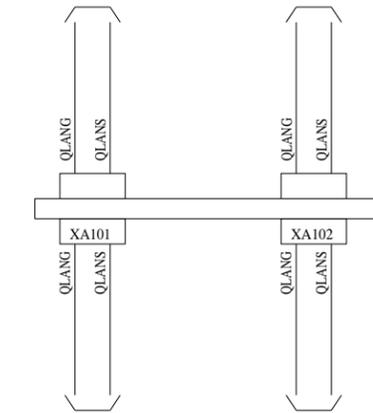
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# AS 6

SDH CONNECTOR BOX

\*) 50 OHM TERMINATION OR TO NEXT STM CABINET CONN. BOX(XA101)

FROM TRANSMISSION MANAGEMENT SYSTEM



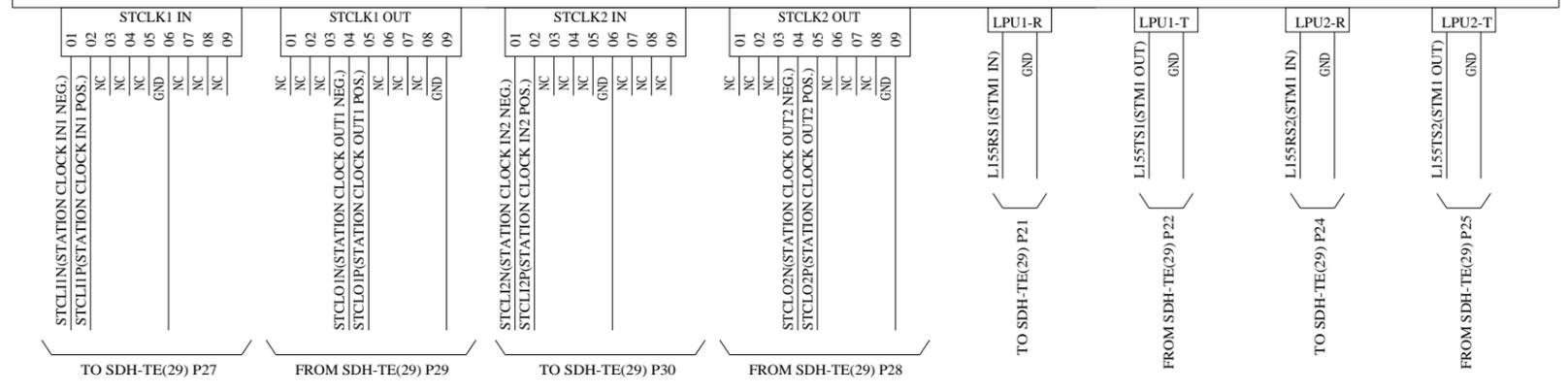
FROM EXTERNAL TIMING

TO EXTERNAL APPARATUS (TO BE SYNCHRONIZED BY STM)

FROM EXTERNAL TIMING

TO EXTERNAL APPARATUS (TO BE SYNCHRONIZED BY STM)

STM1E CONNECTION



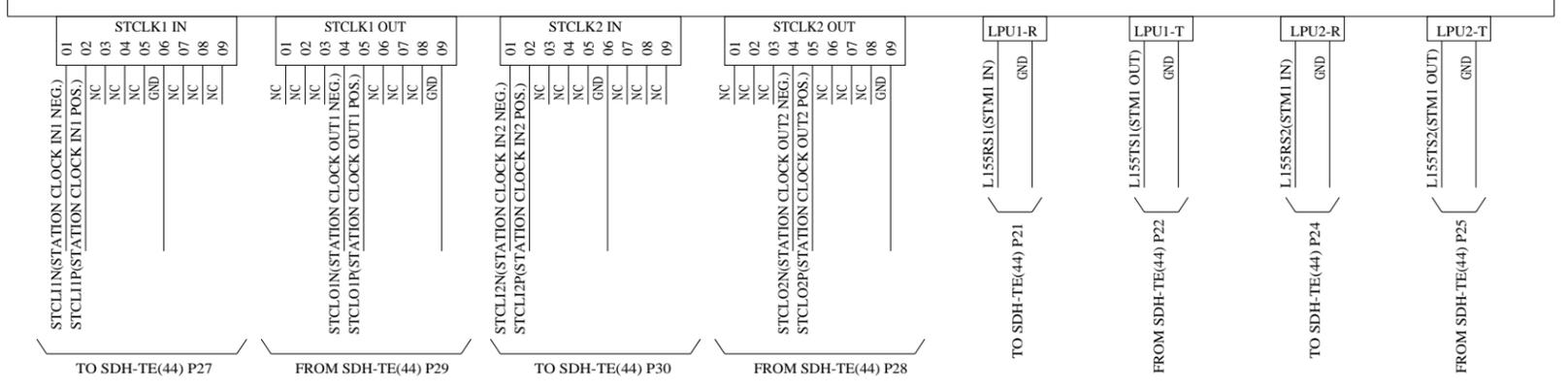
FROM EXTERNAL TIMING

TO EXTERNAL APPARATUS (TO BE SYNCHRONIZED BY STM)

FROM EXTERNAL TIMING

TO EXTERNAL APPARATUS (TO BE SYNCHRONIZED BY STM)

STM1E CONNECTION

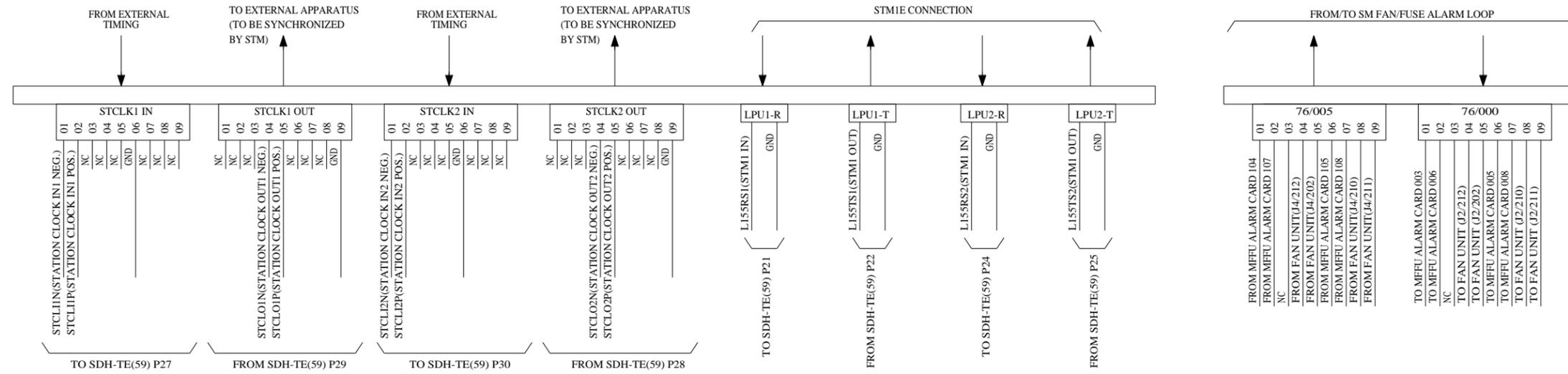


\*) DEPENDS ON CONFIGURATION OF CABINET

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# AS 6

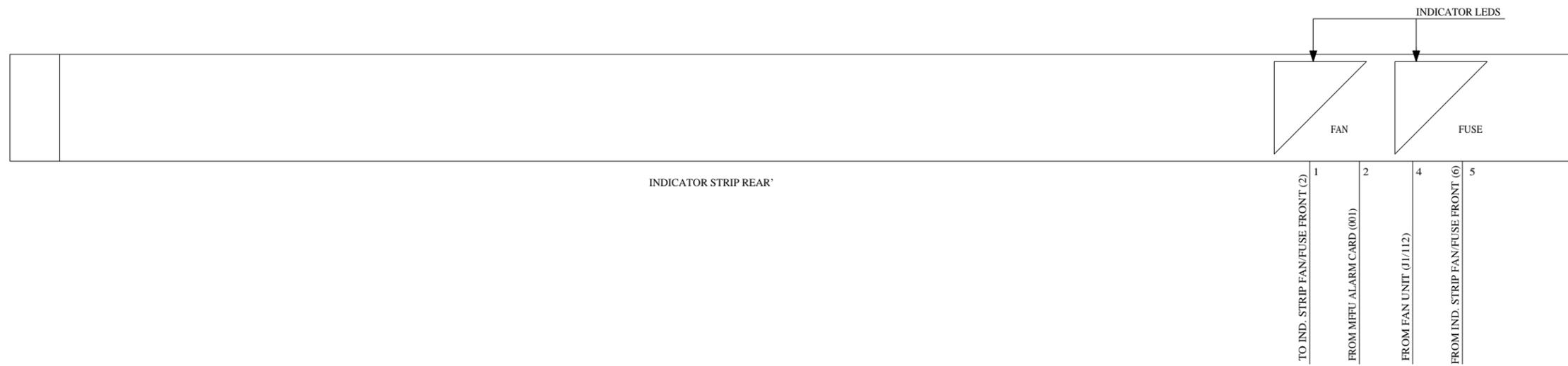
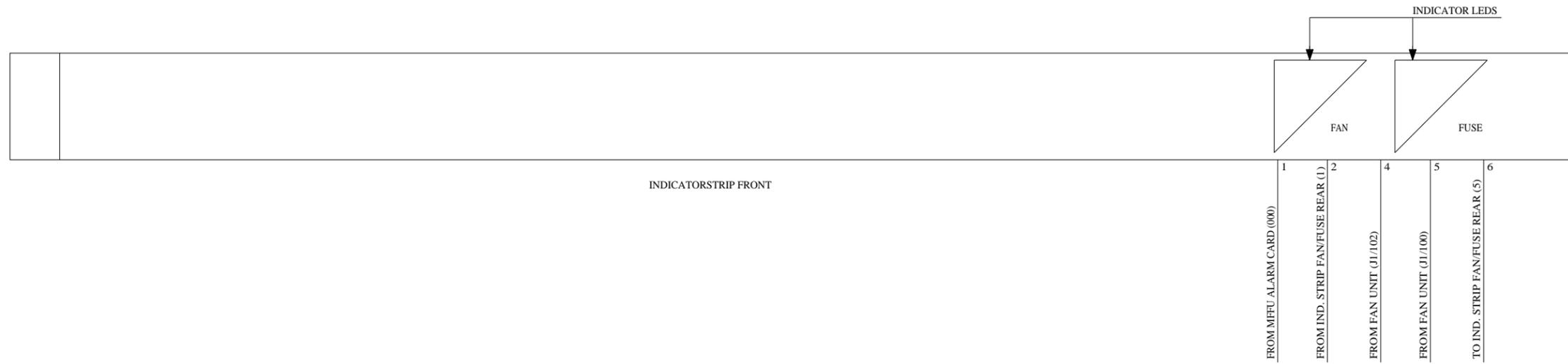
SDH CONNECTOR BOX



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# AS 7

INDICATOR STRIPS FRONT AND REAR



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CABINET CIRCUIT

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ISSUE 1

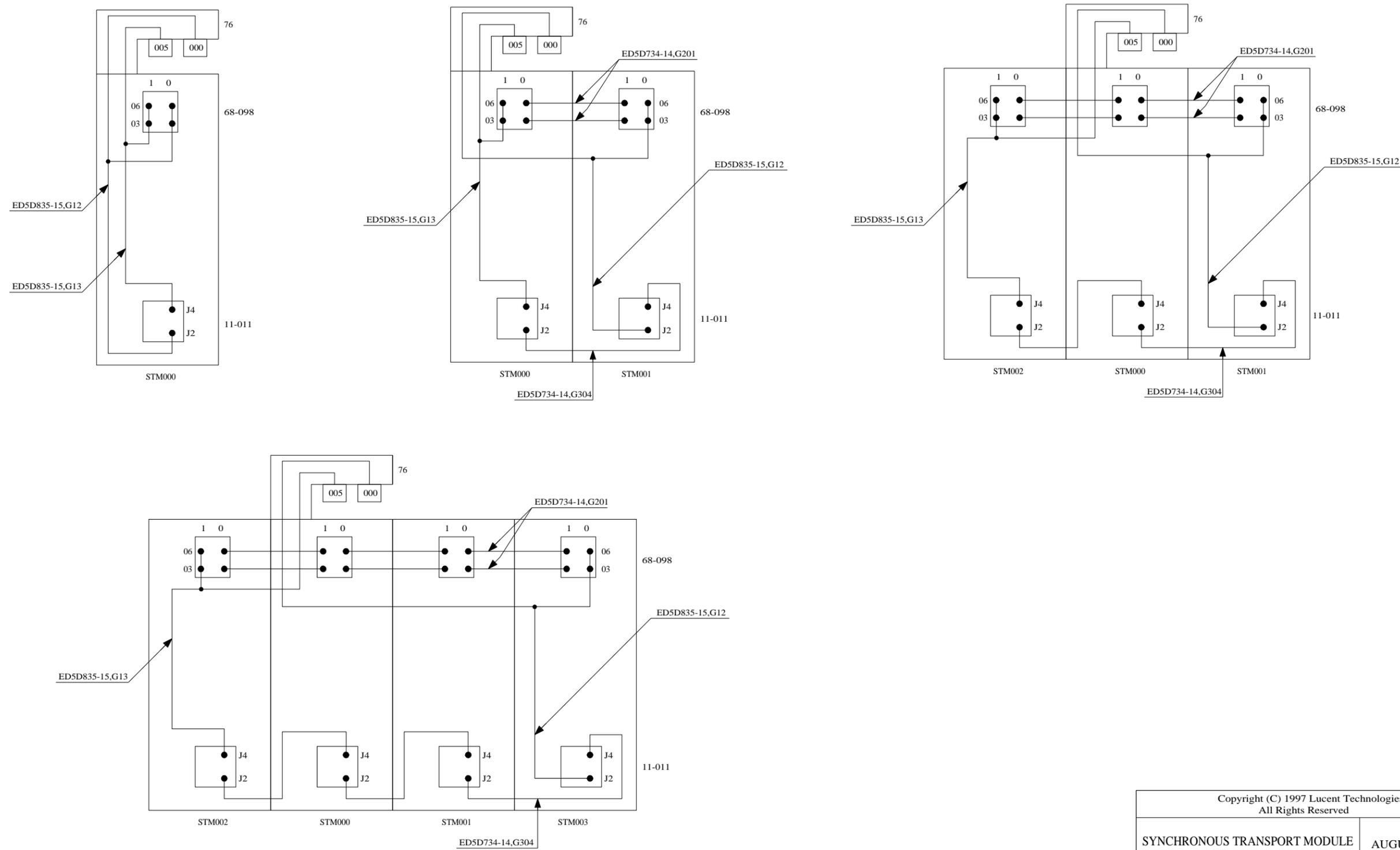
Lucent Technologies

SD-5D556-01

SHEET B8

# AS 8

FUSE AND FAN ALARM MULT WITHIN STM MODULE AT VARIOUS STAGES OF CABINET GROWTH



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# APP FIG. 1

<u>UNIT</u>	<u>SHT LOC.</u>	<u>CODE</u>
FAN UNIT	B1	J5D003FH-2
MFU	B2	J5D003FJ-1
SDH-TE(29)	B3	
SDH-TE(44)	B4	
SDH-TE(59)	B5	
SDH CONNECTOR BOX	B6/B7	J5D007D-1
INDICATOR STRIP FRONT	B8	
INDICATOR STRIP REAR	B8	

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CIRCUIT NOTES:

101.

DESIGNATION	FUSE AMP	POTENTIAL	ONE PER
WP91768,L108	3	-48VDC	FAN
WP91768,L112	7	-48VDC	SDH-TE
<u>BATTERY SYMBOL</u>		<u>VOLTAGE RANGE</u>	
-48VDC		-42.75V TO -52.5V	

102.

THE STM1 CABINET HAS BEEN DESIGNED FOR THE 5ESS NOMINAL -48VDC SYSTEM VOLTAGE AND CONFORMS TO ETSI VOLTAGE REQUIREMENTS.

103.

POWER TO THE CABINET WILL BE SUPPLIED THRU J5D003FJ-1 MODULAR FUSE FILTER UNIT.

EQUIPMENT NOTES:

201.

MAX. CABINET COFIGURATION: 4 CABINETS

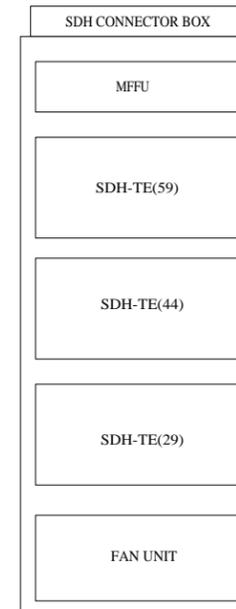
INFORMATION NOTES

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.

CABINET LAYOUT



303.

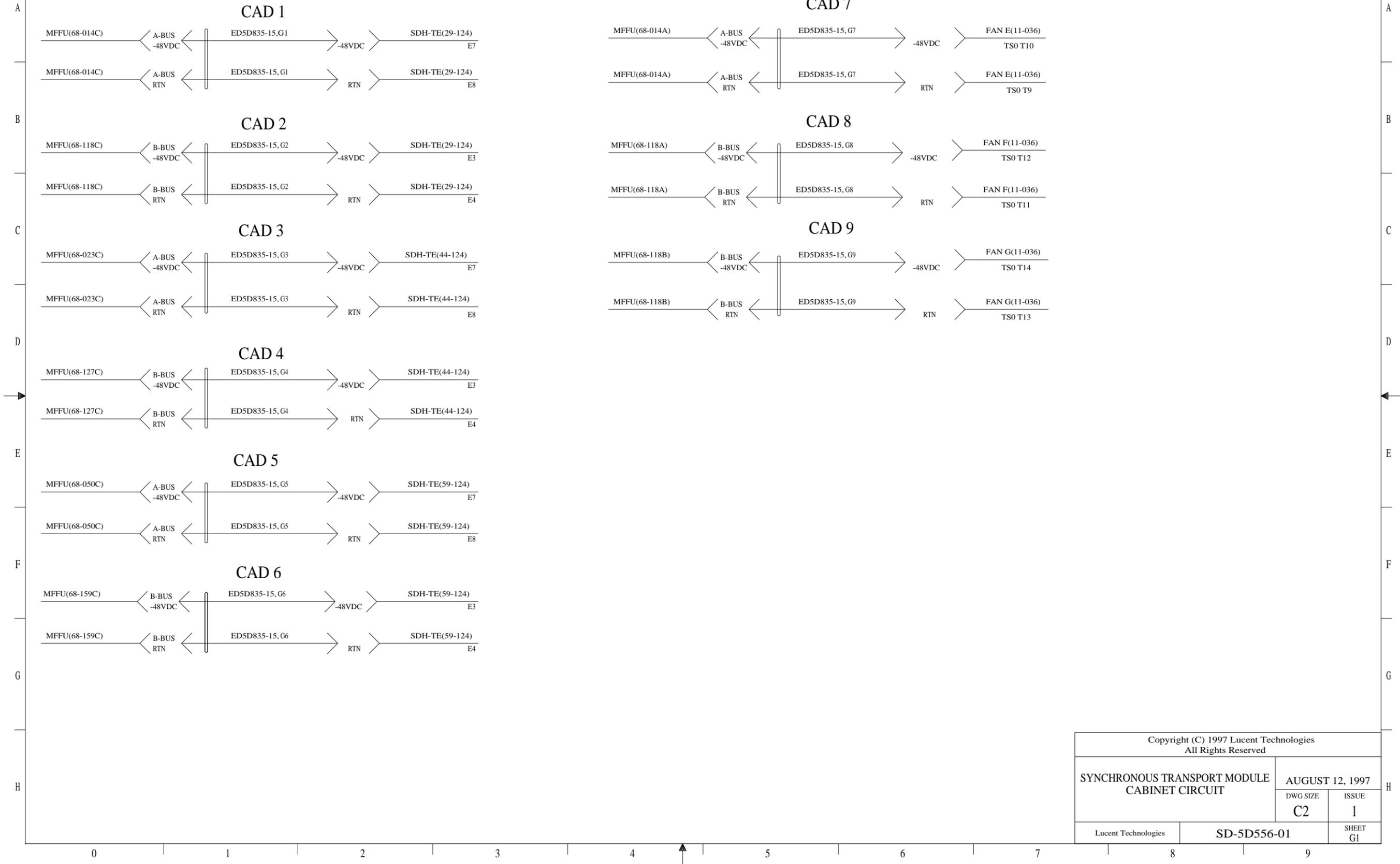
INTRA CABINET ALARMING:  
SEE CAD46 AND CAD47 ON SHEET G4.

304.

INFER CABINET ALARMING:  
SEE SHEET B9

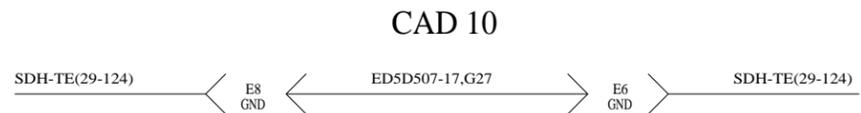
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# POWER CABLES



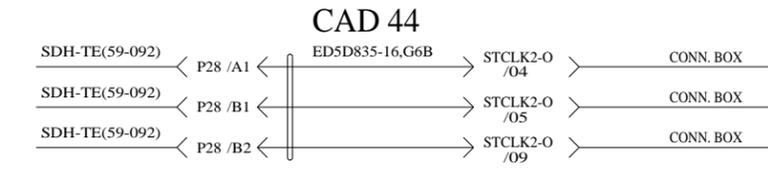
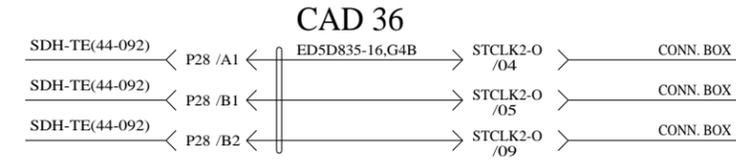
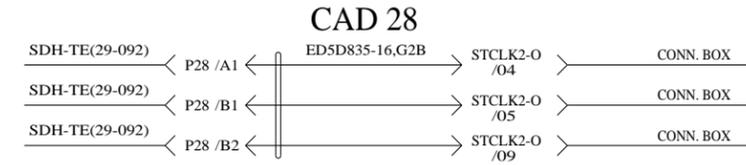
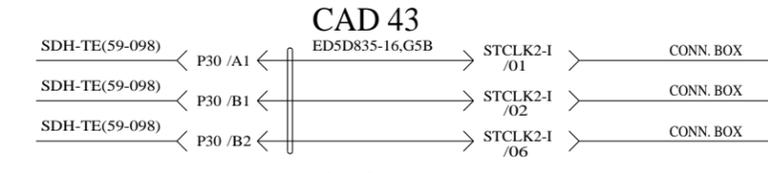
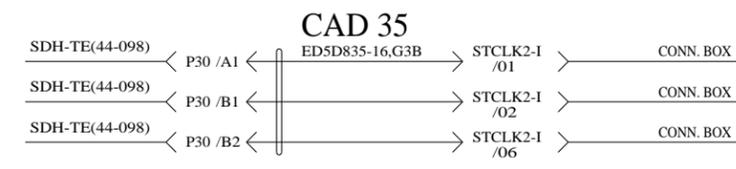
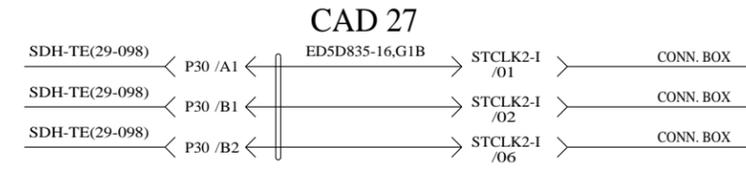
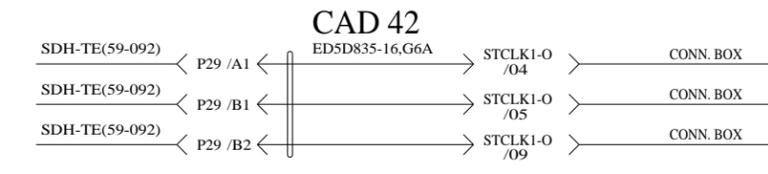
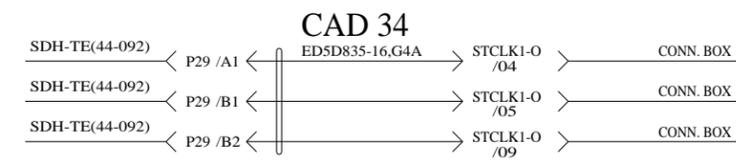
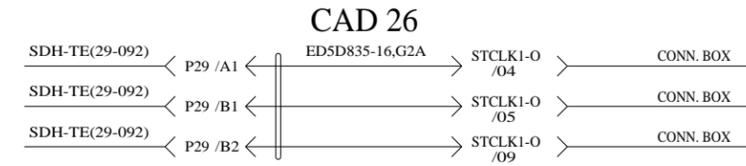
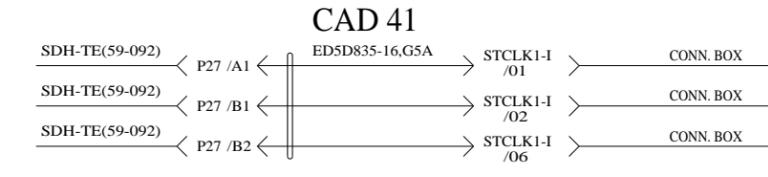
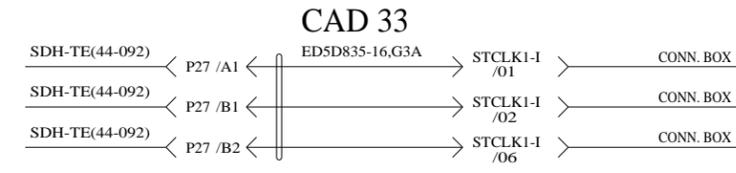
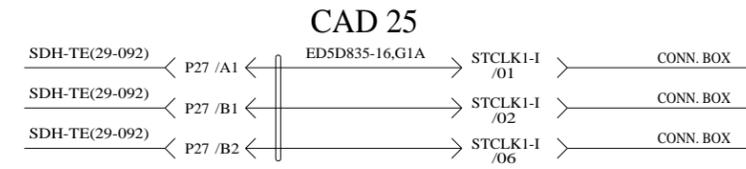
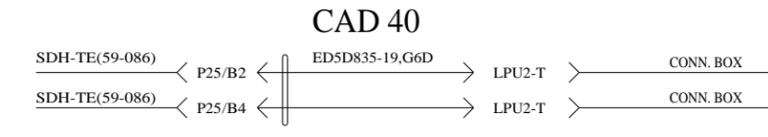
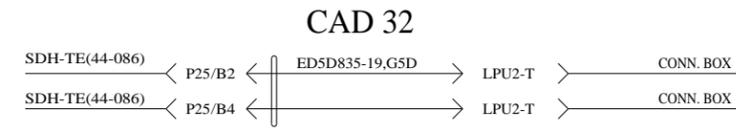
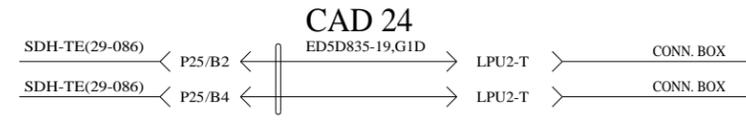
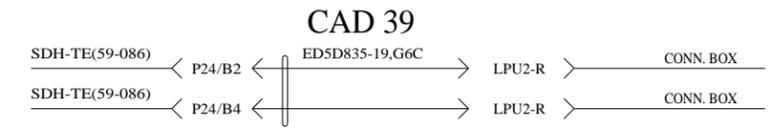
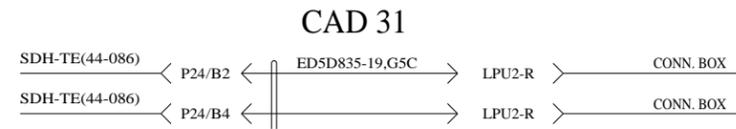
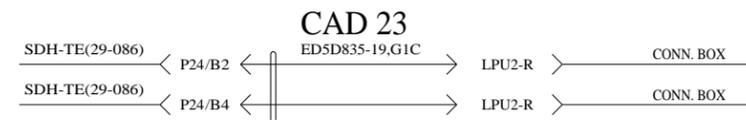
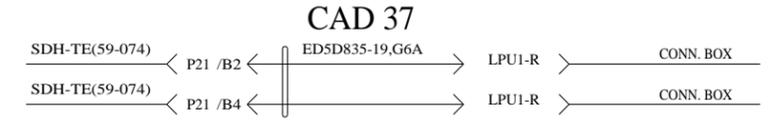
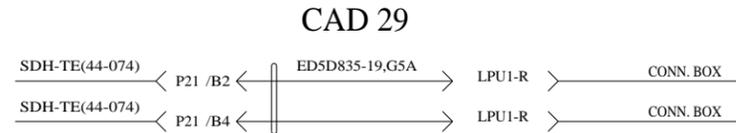
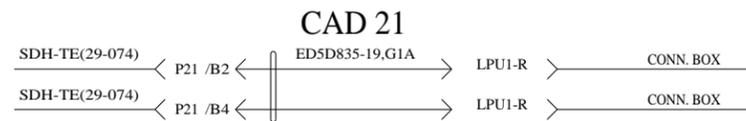
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SYNCHRONOUS TRANSPORT MODULE CABINET CIRCUIT	AUGUST 12, 1997	
	DWG SIZE C2	ISSUE 1
Lucent Technologies	SD-5D556-01	SHEET G1

# GROUND CABLES



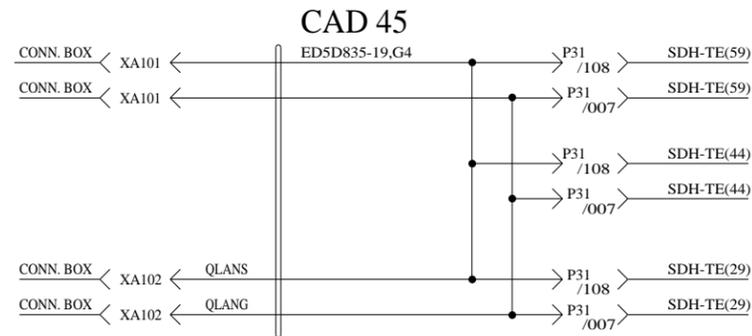
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	DWG SIZE <b>C2</b>	ISSUE <b>1</b>
Lucent Technologies	SD-5D556-01	SHEET G2

# STM AND STATION CLOCK CABLES

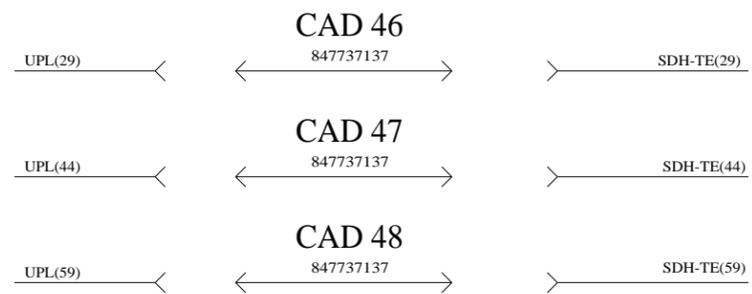


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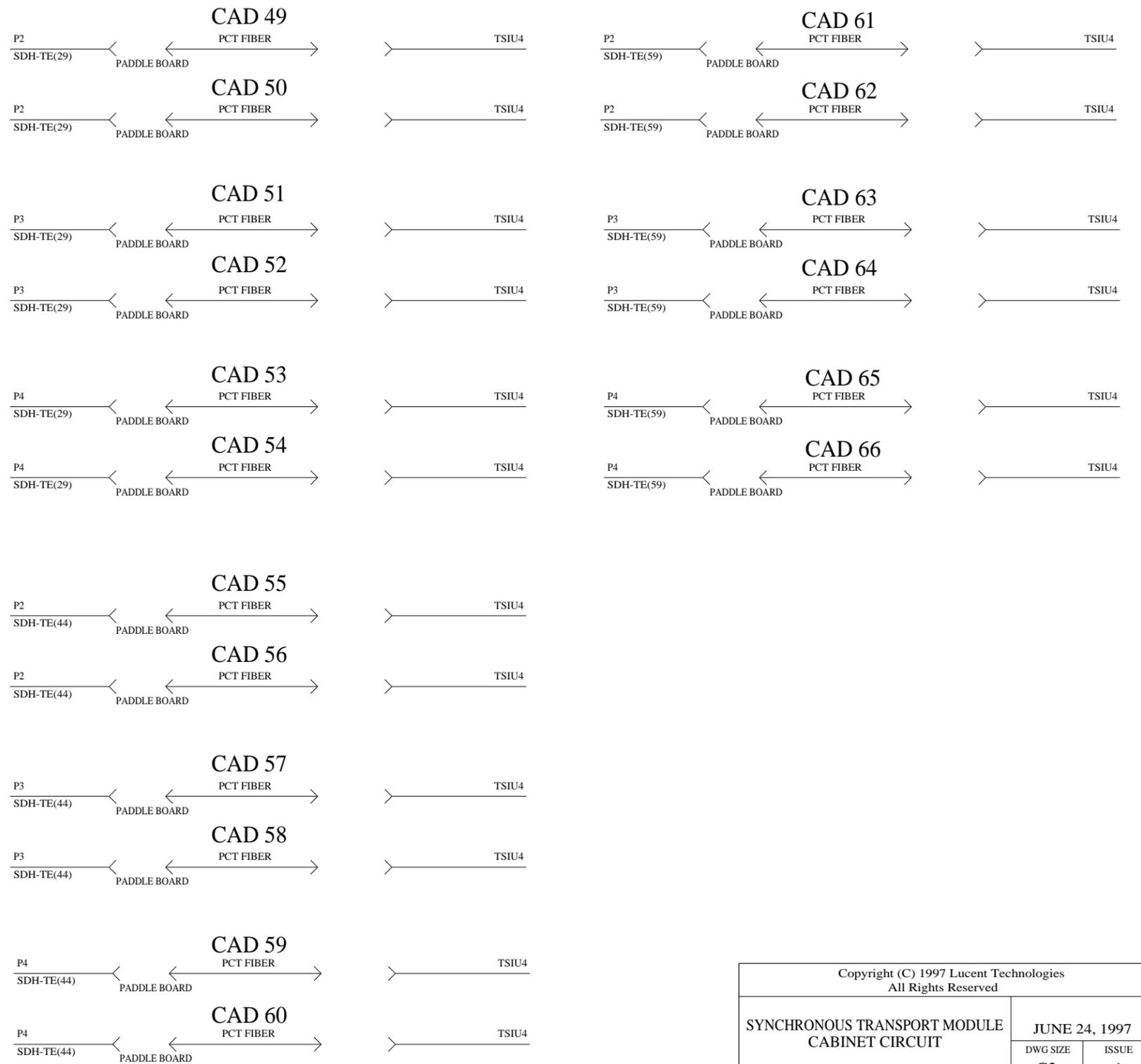
# Q-LAN CABLES



# UPL CABLES



# PCT FIBER LINKS

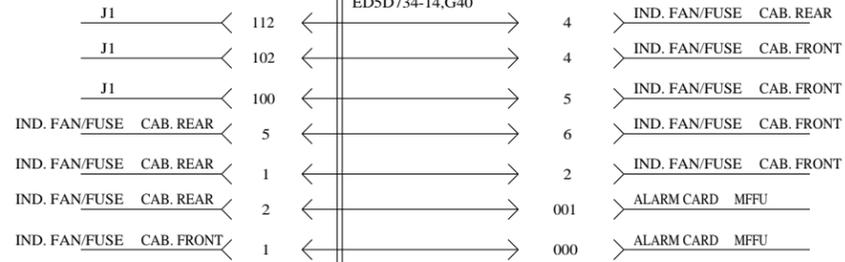


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# ALARM CABLES

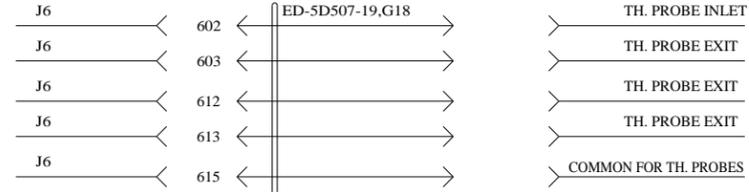
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ED5D734-14,G40



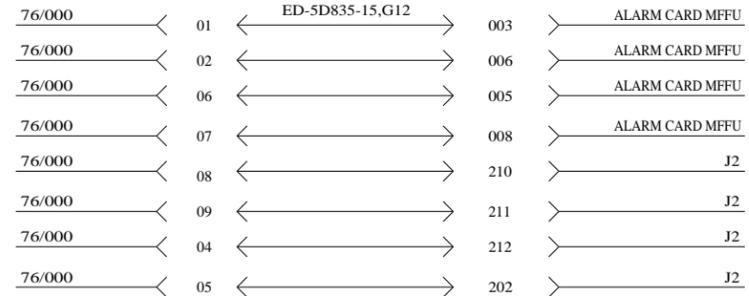
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ED-5D507-19,G18



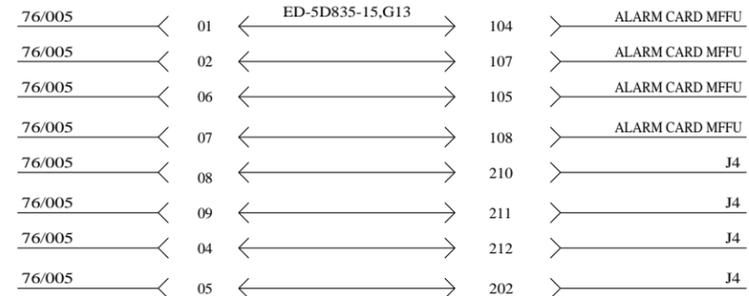
## CAD 69

ED-5D835-15,G12



## CAD 70

ED-5D835-15,G13



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SYNCHRONOUS TRANSPORT MODULE  
CABINET CIRCUIT

AUGUST 12, 1997

DWG SIZE	ISSUE
C2	1

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SHEET  
G5