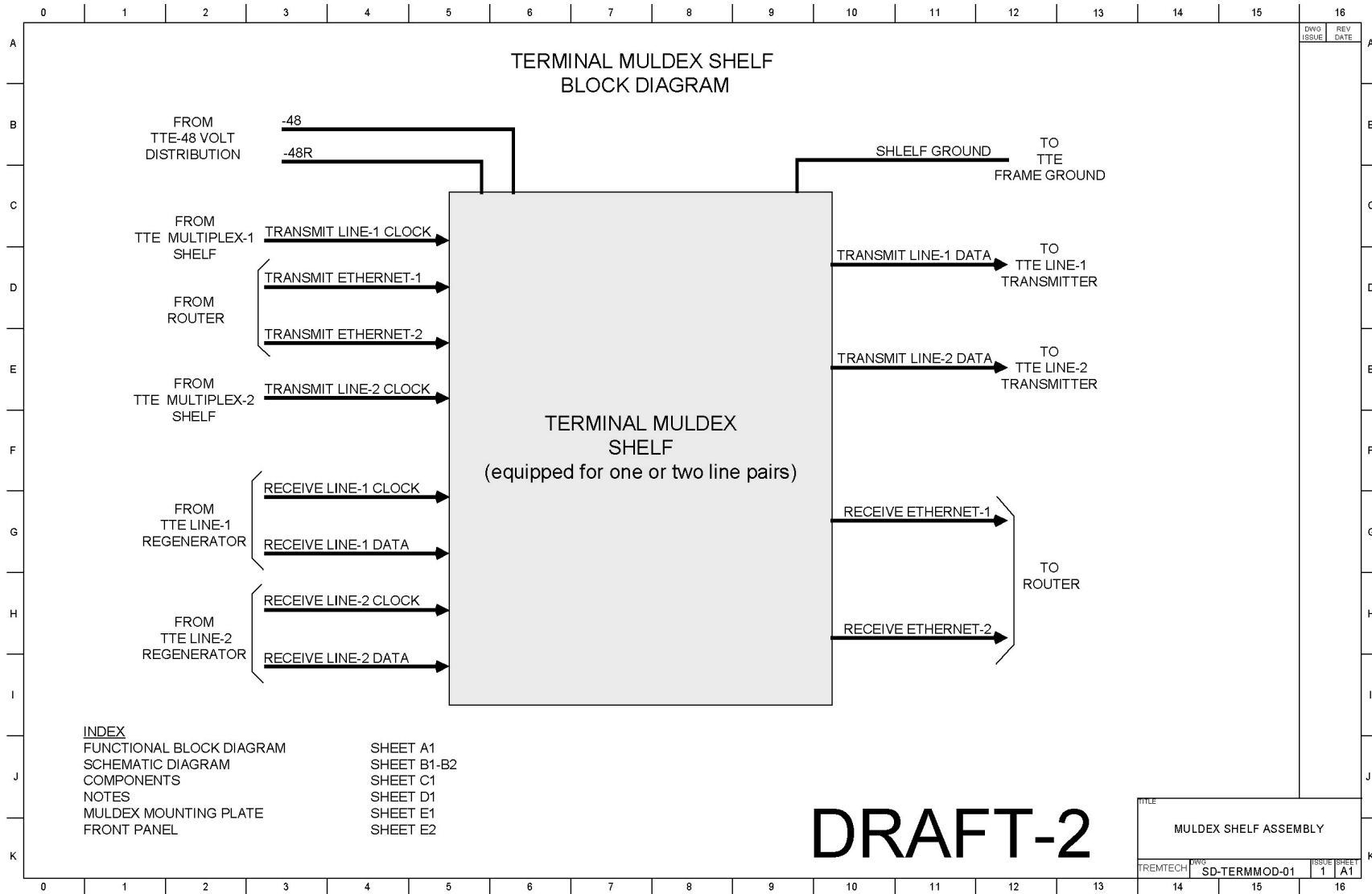
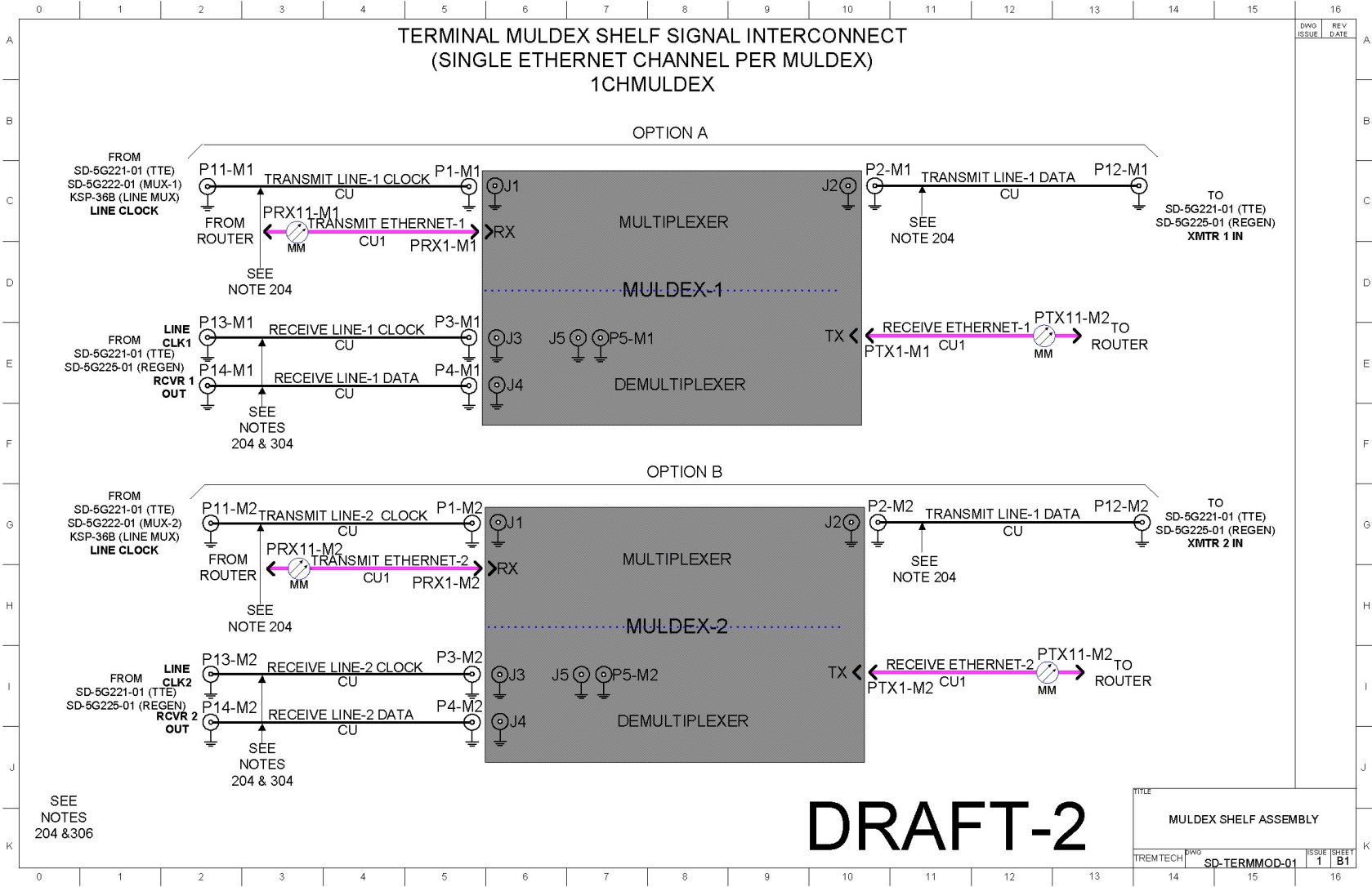


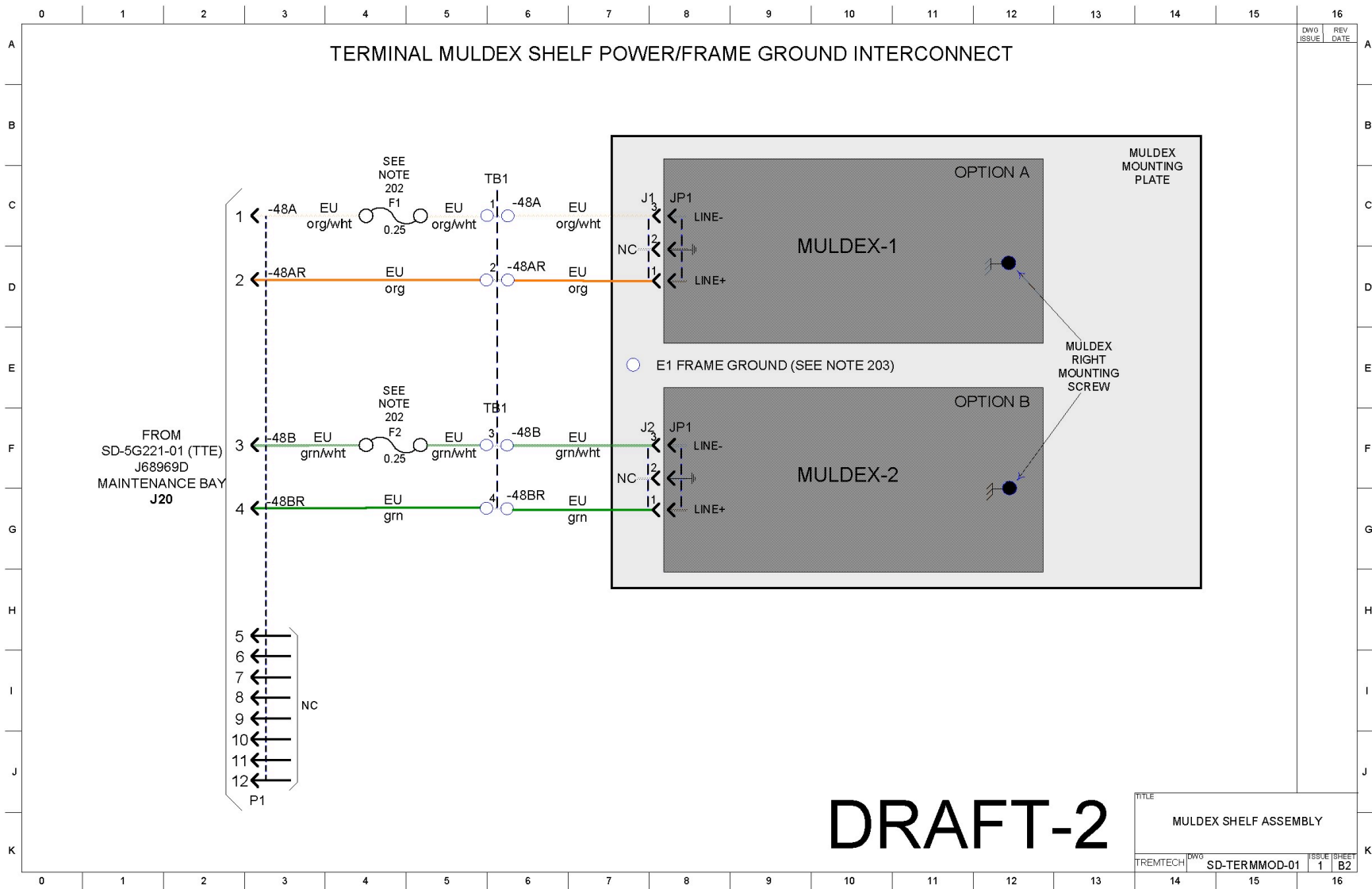
# ATTACHMENT B: TERMINAL MULDEX



# ATTACHMENT B: TERMINAL MULDEX



# ATTACHMENT B: TERMINAL MULDEX



# ATTACHMENT B: TERMINAL MULDEX

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																														
A	<b>TERMINAL MULDEX SHELF ASSEMBLY (COMPONENTS)</b>																DWG T	REV 1	DATE 4/3/08	A																											
B	<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"><b>CONNECTOR (COAXIAL PLUG) [OPTION A]:</b></td> <td style="width: 35%;"><b>FUSES:</b></td> <td style="width: 30%;"></td> </tr> <tr> <td><u>DESIG</u></td> <td><u>LOC</u></td> <td><u>CODE</u></td> </tr> <tr> <td>P1-M1</td> <td>B1/C5</td> <td>8589-0831, SPC</td> </tr> <tr> <td>P11-M1</td> <td>B1/C2</td> <td>PL11C-026, TROMPETER</td> </tr> <tr> <td>P2-M1</td> <td>B1/C10</td> <td>8589-0837, SPC</td> </tr> <tr> <td>P12-M1</td> <td>B1/C13</td> <td>PL11C-026, TROMPETER</td> </tr> <tr> <td>P3-M1</td> <td>B1/E5</td> <td>8589-0831, SPC</td> </tr> <tr> <td>P13-M1</td> <td>B1/E2</td> <td>PL11C-026, TROMPETER</td> </tr> <tr> <td>P4-M1</td> <td>B1/E5</td> <td>8589-0831, SPC</td> </tr> <tr> <td>P14-M1</td> <td>B1/E2</td> <td>PL11C-026, TROMPETER</td> </tr> </table>																<b>CONNECTOR (COAXIAL PLUG) [OPTION A]:</b>	<b>FUSES:</b>		<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>	P1-M1	B1/C5	8589-0831, SPC	P11-M1	B1/C2	PL11C-026, TROMPETER	P2-M1	B1/C10	8589-0837, SPC	P12-M1	B1/C13	PL11C-026, TROMPETER	P3-M1	B1/E5	8589-0831, SPC	P13-M1	B1/E2	PL11C-026, TROMPETER	P4-M1	B1/E5	8589-0831, SPC	P14-M1	B1/E2	PL11C-026, TROMPETER	B
<b>CONNECTOR (COAXIAL PLUG) [OPTION A]:</b>	<b>FUSES:</b>																																														
<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>																																													
P1-M1	B1/C5	8589-0831, SPC																																													
P11-M1	B1/C2	PL11C-026, TROMPETER																																													
P2-M1	B1/C10	8589-0837, SPC																																													
P12-M1	B1/C13	PL11C-026, TROMPETER																																													
P3-M1	B1/E5	8589-0831, SPC																																													
P13-M1	B1/E2	PL11C-026, TROMPETER																																													
P4-M1	B1/E5	8589-0831, SPC																																													
P14-M1	B1/E2	PL11C-026, TROMPETER																																													
C	<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"></td> <td style="width: 35%;"><b>MULDEX:</b></td> <td style="width: 30%;"></td> </tr> <tr> <td><u>DESIG</u></td> <td><u>LOC</u></td> <td><u>CODE</u></td> </tr> <tr> <td>MULDEX-1</td> <td>B1/D7</td> <td>1CHMULDEX</td> </tr> <tr> <td></td> <td>B2/D10</td> <td></td> </tr> <tr> <td>MULDEX-2</td> <td>B1/H7</td> <td>1CHMULDEX</td> </tr> <tr> <td></td> <td>B2/H10</td> <td></td> </tr> </table>																	<b>MULDEX:</b>		<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>	MULDEX-1	B1/D7	1CHMULDEX		B2/D10		MULDEX-2	B1/H7	1CHMULDEX		B2/H10		C												
	<b>MULDEX:</b>																																														
<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>																																													
MULDEX-1	B1/D7	1CHMULDEX																																													
	B2/D10																																														
MULDEX-2	B1/H7	1CHMULDEX																																													
	B2/H10																																														
D	<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"><b>CONNECTOR (COAXIAL PLUG) [OPTION B]:</b></td> <td style="width: 35%;"><b>MULDEX SHELF:</b></td> <td style="width: 30%;"></td> </tr> <tr> <td><u>DESIG</u></td> <td><u>LOC</u></td> <td><u>CODE</u></td> </tr> <tr> <td>P1-M2</td> <td>B1/G5</td> <td>8589-0831, SPC</td> </tr> <tr> <td>P11-M2</td> <td>B1/G2</td> <td>PL11C-026, TROMPETER</td> </tr> <tr> <td>P2-M2</td> <td>B1/G10</td> <td>8589-0837, SPC</td> </tr> <tr> <td>P12-M2</td> <td>B1/G13</td> <td>PL11C-026, TROMPETER</td> </tr> <tr> <td>P3-M2</td> <td>B1/I5</td> <td>8589-0831, SPC</td> </tr> <tr> <td>P13-M2</td> <td>B1/I2</td> <td>PL11C-026, TROMPETER</td> </tr> <tr> <td>P4-M2</td> <td>B1/I5</td> <td>8589-0831, SPC</td> </tr> <tr> <td>P14-M2</td> <td>B1/I2</td> <td>PL11C-026, TROMPETER</td> </tr> </table>																<b>CONNECTOR (COAXIAL PLUG) [OPTION B]:</b>	<b>MULDEX SHELF:</b>		<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>	P1-M2	B1/G5	8589-0831, SPC	P11-M2	B1/G2	PL11C-026, TROMPETER	P2-M2	B1/G10	8589-0837, SPC	P12-M2	B1/G13	PL11C-026, TROMPETER	P3-M2	B1/I5	8589-0831, SPC	P13-M2	B1/I2	PL11C-026, TROMPETER	P4-M2	B1/I5	8589-0831, SPC	P14-M2	B1/I2	PL11C-026, TROMPETER	D
<b>CONNECTOR (COAXIAL PLUG) [OPTION B]:</b>	<b>MULDEX SHELF:</b>																																														
<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>																																													
P1-M2	B1/G5	8589-0831, SPC																																													
P11-M2	B1/G2	PL11C-026, TROMPETER																																													
P2-M2	B1/G10	8589-0837, SPC																																													
P12-M2	B1/G13	PL11C-026, TROMPETER																																													
P3-M2	B1/I5	8589-0831, SPC																																													
P13-M2	B1/I2	PL11C-026, TROMPETER																																													
P4-M2	B1/I5	8589-0831, SPC																																													
P14-M2	B1/I2	PL11C-026, TROMPETER																																													
E	<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"></td> <td style="width: 35%;"><u>DESIG</u></td> <td style="width: 30%;"><u>LOC</u></td> </tr> <tr> <td></td> <td></td> <td><u>CODE</u></td> </tr> <tr> <td></td> <td></td> <td>J68969-AJ, AT&amp;T</td> </tr> <tr> <td></td> <td></td> <td>(MODIFIED; INCLUDES</td> </tr> <tr> <td></td> <td></td> <td>(P1 CONNECTOR AND</td> </tr> <tr> <td></td> <td></td> <td>POWER WIRING)</td> </tr> </table>																	<u>DESIG</u>	<u>LOC</u>			<u>CODE</u>			J68969-AJ, AT&T			(MODIFIED; INCLUDES			(P1 CONNECTOR AND			POWER WIRING)	E												
	<u>DESIG</u>	<u>LOC</u>																																													
		<u>CODE</u>																																													
		J68969-AJ, AT&T																																													
		(MODIFIED; INCLUDES																																													
		(P1 CONNECTOR AND																																													
		POWER WIRING)																																													
F	<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"><b>CONNECTOR (JACK):</b></td> <td style="width: 35%;"><b>TERMINAL BLOCK:</b></td> <td style="width: 30%;"></td> </tr> <tr> <td><u>DESIG</u></td> <td><u>LOC</u></td> <td><u>CODE</u></td> </tr> <tr> <td>J1</td> <td>B2/C7</td> <td>104257-3, AMP</td> </tr> <tr> <td>J2</td> <td>B2/F7</td> <td>104257-3, AMP</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td><u>DESIG</u></td> <td><u>LOC</u></td> </tr> <tr> <td></td> <td>TB1</td> <td>B2/C5</td> </tr> <tr> <td></td> <td></td> <td><u>CODE</u></td> </tr> <tr> <td></td> <td></td> <td>4-150, CINCH</td> </tr> </table>																<b>CONNECTOR (JACK):</b>	<b>TERMINAL BLOCK:</b>		<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>	J1	B2/C7	104257-3, AMP	J2	B2/F7	104257-3, AMP					<u>DESIG</u>	<u>LOC</u>		TB1	B2/C5			<u>CODE</u>			4-150, CINCH	F			
<b>CONNECTOR (JACK):</b>	<b>TERMINAL BLOCK:</b>																																														
<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>																																													
J1	B2/C7	104257-3, AMP																																													
J2	B2/F7	104257-3, AMP																																													
	<u>DESIG</u>	<u>LOC</u>																																													
	TB1	B2/C5																																													
		<u>CODE</u>																																													
		4-150, CINCH																																													
G																	G																														
H	<table style="width: 100%; border: none;"> <tr> <td style="width: 35%;"><b>CONNECTOR (OPTICAL PLUG):</b></td> <td style="width: 35%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td><u>DESIG</u></td> <td><u>LOC</u></td> <td><u>CODE</u></td> </tr> <tr> <td>PRX1-M1</td> <td>B1/C5</td> <td rowspan="2">P/O: 943-31255-10030, AMPHENOL, ST</td> </tr> <tr> <td>PRX11-M1</td> <td>B1/C3</td> </tr> <tr> <td>PRX1-M2</td> <td>B1/G5</td> <td rowspan="2">P/O: 943-31255-10030, AMPHENOL, ST</td> </tr> <tr> <td>PRX11-M2</td> <td>B2/G3</td> </tr> <tr> <td>PTX1-M1</td> <td>B1/D10</td> <td rowspan="2">P/O: 943-31255-10030, AMPHENOL, ST</td> </tr> <tr> <td>PTX1-M2</td> <td>B1/H10</td> </tr> <tr> <td>PTX11-M1</td> <td>B1/D12</td> <td rowspan="2">P/O: 943-31255-10030, AMPHENOL, ST</td> </tr> <tr> <td>PTX11-M2</td> <td>B2/H12</td> </tr> </table>																<b>CONNECTOR (OPTICAL PLUG):</b>			<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>	PRX1-M1	B1/C5	P/O: 943-31255-10030, AMPHENOL, ST	PRX11-M1	B1/C3	PRX1-M2	B1/G5	P/O: 943-31255-10030, AMPHENOL, ST	PRX11-M2	B2/G3	PTX1-M1	B1/D10	P/O: 943-31255-10030, AMPHENOL, ST	PTX1-M2	B1/H10	PTX11-M1	B1/D12	P/O: 943-31255-10030, AMPHENOL, ST	PTX11-M2	B2/H12	H				
<b>CONNECTOR (OPTICAL PLUG):</b>																																															
<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>																																													
PRX1-M1	B1/C5	P/O: 943-31255-10030, AMPHENOL, ST																																													
PRX11-M1	B1/C3																																														
PRX1-M2	B1/G5	P/O: 943-31255-10030, AMPHENOL, ST																																													
PRX11-M2	B2/G3																																														
PTX1-M1	B1/D10	P/O: 943-31255-10030, AMPHENOL, ST																																													
PTX1-M2	B1/H10																																														
PTX11-M1	B1/D12	P/O: 943-31255-10030, AMPHENOL, ST																																													
PTX11-M2	B2/H12																																														
I																	I																														
J																	J																														
K																	K																														
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TITLE	MULDEX SHELF ASSEMBLY	TREMTECH	DWG	SD-TERMMOD-01	ISSUE	SHEET	1	C1																						

# ATTACHMENT B: TERMINAL MULDEX

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16												
A	<b>TERMINAL MULDEX SHELF ASSEMBLY (NOTES)</b>																A												
B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> <p><u>CIRCUIT NOTES:</u></p> <p>101. OPERATING VOLTAGE RANGE: 18-75 VDC</p> <p>102. SL280 TTE INTERFACES ARE ALL VIA 75-OHM COAXIAL CABLES</p> <p>103. ETHERNET OUTPUT SIGNAL LEVEL: -19 BOL (-20 EOL) TO -14 DBM; ETHERNET INPUT SIGNAL LEVEL: -14 DBM MAX; -30 MIN (SEE NOTE 306)</p> <p>104. OPERATING TEMPERATURE RANGE: 0 TO + 45 DEGREES-C</p> <p>105. FUSES F1 AND F2: 0.25 AMP FAST-ACTING</p> </td> <td style="width: 33%; vertical-align: top;"> <p><u>EQUIPMENT NOTES:</u></p> <p>201. WIRING SHALL BE AS FOLLOWS CU RG-187A/U COAX CABLE OR EQUIVALENT  CU1 62.5/125 3MM SM GRAY JACKETED MM FIBER  EU 22 GAUGE WIRE WITH COLORED JACKETS AS INDICATED</p> <p>202. F1 AND F2 ARE LOCATED BEHIND THE MULDEX MOUNTING PLATE. DISCONNECT J1 AND J2 FROM JP1 ON MULDEX 1 AND/OR 2 AS REQUIRED AND SLIDE THE MULDEX MOUNTING PLATE TO THE LEFT FOR ACCESS.</p> <p>203. MULDEX FRAME GROUND IS VIA THE THE RIGHT PWB MOUNTING SCREW TO THE MULDEX MOUNTING PLATE AND THEN FROM E1 TO THE SHELF CHASSIS USING A 5-INCH 5/32 TINNED TUBULAR BRAID E/W 16-14 RING TERMINALS AND 6/32 HARDWARE.</p> <p>204. COAXIAL CABLE LENGTHS SHALL BE AS FOLLOWS: P1-M1/P11-M1 CABLE: 13 FEET P2-M1/P12-M1 CABLE: 12 FEET P3-M1/P13-M1 CABLE: 9 FEET P4-M1/P14-M1 CABLE: 9 FEET  P1-M2/P11-M2 CABLE: 10 FEET P2-M2/P12-M2 CABLE: 12 FEET P3-M2/P13-M2 CABLE: 9 FEET P4-M2/P14-M2 CABLE: 9 FEET</p> </td> <td style="width: 33%; vertical-align: top;"> <p><u>INFORMATION NOTES:</u></p> <p>301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES ARE IN MICROFARADS; INDUCTANCE VALUES ARE IN MILLIHENRIES; VALUES PRECEDED BY + OR - ARE IN VOLTS.</p> <p>302. FEATURE OR OPTION: OPTION A: MULDEX-1 (SINGLE ETHERNET) OPTION B: MULDEX-2 (SINGLE ETHERNET)</p> <p>303. RECORD OF CHANGES:</p> <p>304. MEASURE THE RELATIONSHIP OF THE RECEIVE CLOCK AND DATA SIGNALS AND VERIFY THAT THE RISING EDGE OF THE CLOCK SIGNAL IS AT THE MIDPOINT OF THE DATA EYE +/- 20 PERCENT.</p> </td> </tr> </table>																<p><u>CIRCUIT NOTES:</u></p> <p>101. OPERATING VOLTAGE RANGE: 18-75 VDC</p> <p>102. SL280 TTE INTERFACES ARE ALL VIA 75-OHM COAXIAL CABLES</p> <p>103. ETHERNET OUTPUT SIGNAL LEVEL: -19 BOL (-20 EOL) TO -14 DBM; ETHERNET INPUT SIGNAL LEVEL: -14 DBM MAX; -30 MIN (SEE NOTE 306)</p> <p>104. OPERATING TEMPERATURE RANGE: 0 TO + 45 DEGREES-C</p> <p>105. FUSES F1 AND F2: 0.25 AMP FAST-ACTING</p>	<p><u>EQUIPMENT NOTES:</u></p> <p>201. WIRING SHALL BE AS FOLLOWS CU RG-187A/U COAX CABLE OR EQUIVALENT  CU1 62.5/125 3MM SM GRAY JACKETED MM FIBER  EU 22 GAUGE WIRE WITH COLORED JACKETS AS INDICATED</p> <p>202. F1 AND F2 ARE LOCATED BEHIND THE MULDEX MOUNTING PLATE. DISCONNECT J1 AND J2 FROM JP1 ON MULDEX 1 AND/OR 2 AS REQUIRED AND SLIDE THE MULDEX MOUNTING PLATE TO THE LEFT FOR ACCESS.</p> <p>203. MULDEX FRAME GROUND IS VIA THE THE RIGHT PWB MOUNTING SCREW TO THE MULDEX MOUNTING PLATE AND THEN FROM E1 TO THE SHELF CHASSIS USING A 5-INCH 5/32 TINNED TUBULAR BRAID E/W 16-14 RING TERMINALS AND 6/32 HARDWARE.</p> <p>204. COAXIAL CABLE LENGTHS SHALL BE AS FOLLOWS: P1-M1/P11-M1 CABLE: 13 FEET P2-M1/P12-M1 CABLE: 12 FEET P3-M1/P13-M1 CABLE: 9 FEET P4-M1/P14-M1 CABLE: 9 FEET  P1-M2/P11-M2 CABLE: 10 FEET P2-M2/P12-M2 CABLE: 12 FEET P3-M2/P13-M2 CABLE: 9 FEET P4-M2/P14-M2 CABLE: 9 FEET</p>	<p><u>INFORMATION NOTES:</u></p> <p>301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES ARE IN MICROFARADS; INDUCTANCE VALUES ARE IN MILLIHENRIES; VALUES PRECEDED BY + OR - ARE IN VOLTS.</p> <p>302. FEATURE OR OPTION: OPTION A: MULDEX-1 (SINGLE ETHERNET) OPTION B: MULDEX-2 (SINGLE ETHERNET)</p> <p>303. RECORD OF CHANGES:</p> <p>304. MEASURE THE RELATIONSHIP OF THE RECEIVE CLOCK AND DATA SIGNALS AND VERIFY THAT THE RISING EDGE OF THE CLOCK SIGNAL IS AT THE MIDPOINT OF THE DATA EYE +/- 20 PERCENT.</p>	B									
<p><u>CIRCUIT NOTES:</u></p> <p>101. OPERATING VOLTAGE RANGE: 18-75 VDC</p> <p>102. SL280 TTE INTERFACES ARE ALL VIA 75-OHM COAXIAL CABLES</p> <p>103. ETHERNET OUTPUT SIGNAL LEVEL: -19 BOL (-20 EOL) TO -14 DBM; ETHERNET INPUT SIGNAL LEVEL: -14 DBM MAX; -30 MIN (SEE NOTE 306)</p> <p>104. OPERATING TEMPERATURE RANGE: 0 TO + 45 DEGREES-C</p> <p>105. FUSES F1 AND F2: 0.25 AMP FAST-ACTING</p>	<p><u>EQUIPMENT NOTES:</u></p> <p>201. WIRING SHALL BE AS FOLLOWS CU RG-187A/U COAX CABLE OR EQUIVALENT  CU1 62.5/125 3MM SM GRAY JACKETED MM FIBER  EU 22 GAUGE WIRE WITH COLORED JACKETS AS INDICATED</p> <p>202. F1 AND F2 ARE LOCATED BEHIND THE MULDEX MOUNTING PLATE. DISCONNECT J1 AND J2 FROM JP1 ON MULDEX 1 AND/OR 2 AS REQUIRED AND SLIDE THE MULDEX MOUNTING PLATE TO THE LEFT FOR ACCESS.</p> <p>203. MULDEX FRAME GROUND IS VIA THE THE RIGHT PWB MOUNTING SCREW TO THE MULDEX MOUNTING PLATE AND THEN FROM E1 TO THE SHELF CHASSIS USING A 5-INCH 5/32 TINNED TUBULAR BRAID E/W 16-14 RING TERMINALS AND 6/32 HARDWARE.</p> <p>204. COAXIAL CABLE LENGTHS SHALL BE AS FOLLOWS: P1-M1/P11-M1 CABLE: 13 FEET P2-M1/P12-M1 CABLE: 12 FEET P3-M1/P13-M1 CABLE: 9 FEET P4-M1/P14-M1 CABLE: 9 FEET  P1-M2/P11-M2 CABLE: 10 FEET P2-M2/P12-M2 CABLE: 12 FEET P3-M2/P13-M2 CABLE: 9 FEET P4-M2/P14-M2 CABLE: 9 FEET</p>	<p><u>INFORMATION NOTES:</u></p> <p>301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES ARE IN MICROFARADS; INDUCTANCE VALUES ARE IN MILLIHENRIES; VALUES PRECEDED BY + OR - ARE IN VOLTS.</p> <p>302. FEATURE OR OPTION: OPTION A: MULDEX-1 (SINGLE ETHERNET) OPTION B: MULDEX-2 (SINGLE ETHERNET)</p> <p>303. RECORD OF CHANGES:</p> <p>304. MEASURE THE RELATIONSHIP OF THE RECEIVE CLOCK AND DATA SIGNALS AND VERIFY THAT THE RISING EDGE OF THE CLOCK SIGNAL IS AT THE MIDPOINT OF THE DATA EYE +/- 20 PERCENT.</p>																											
C																	C												
D																	D												
E																	E												
F																	F												
G																	G												
H																	H												
I																	I												
J																	J												
K	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: 2em; font-weight: bold;">DRAFT-2</div> <table border="1" style="border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">TITLE</td> <td colspan="2" style="text-align: center;">MULDEX SHELF ASSEMBLY</td> </tr> <tr> <td style="font-size: 0.8em;">TREMTECH</td> <td style="font-size: 0.8em;">E/WG</td> <td style="font-size: 0.8em;">SD-TERMMOD-01</td> <td style="font-size: 0.8em;">ISSUE SHEET</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">D1</td> </tr> </table> </div>																TITLE		MULDEX SHELF ASSEMBLY		TREMTECH	E/WG	SD-TERMMOD-01	ISSUE SHEET			1	D1	K
TITLE		MULDEX SHELF ASSEMBLY																											
TREMTECH	E/WG	SD-TERMMOD-01	ISSUE SHEET																										
		1	D1																										
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16													