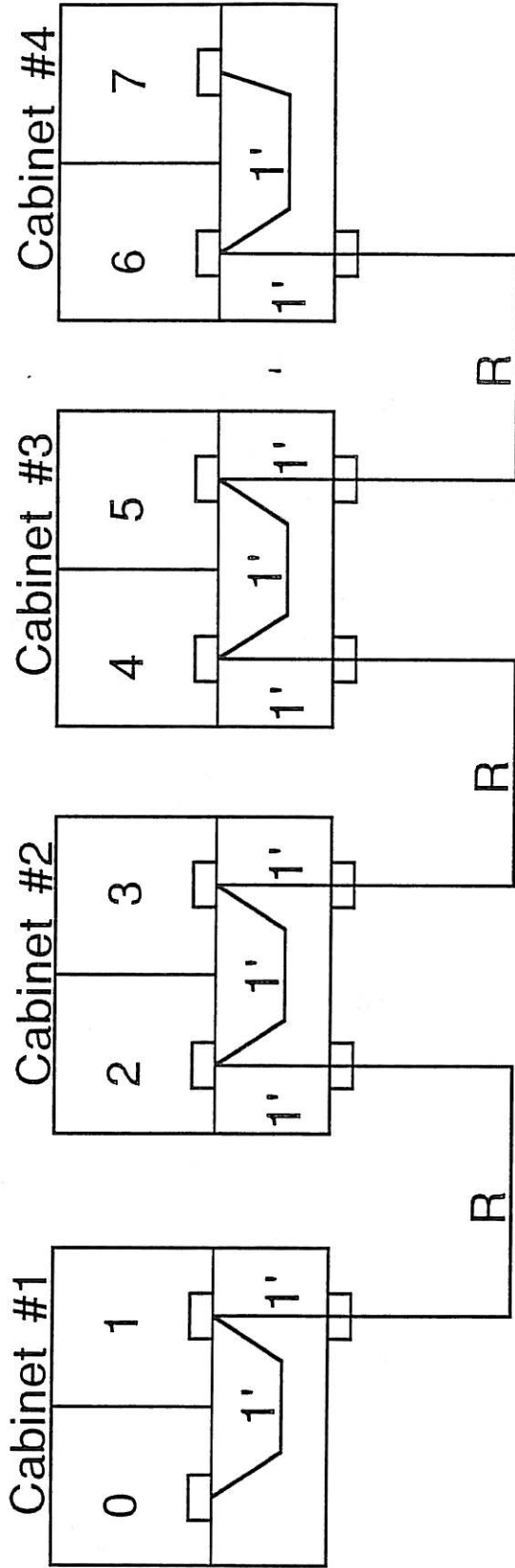


TEST SETUP FOR COMPARISON OF ACTIVE PULL-UP, SINGLE-ENDED TRANSCIEVERS AND LOW POWER DIFFERENTIAL TRANSCIEVERS



NOTES: Setup:

- Round cable between cabinets.
 - 1 foot flat ribbon cables (25 MIL centerline) inside cabinets.
 - Connectors are high density, 50 position.
- Will investigate:
- Maximum round cable length.
 - Maximum transfer rate.
 - Ground shift tolerance (SE vs. LPD vs. RS-485).

X3T9.2/90-195

INTERFACE COMPATIBILITY CHART

SINGLE- ENDED LPD IN SE MODE	A	B	P	Q	L
A	OKAY	SHORT CIRCUIT	OKAY	NO DAMAGE	OKAY
B	SHORT CIRCUIT	OKAY	SHORT CIRCUIT	SHORT CIRCUIT	SHORT CIRCUIT
P	OKAY	SHORT CIRCUIT	OKAY	NO DAMAGE	OKAY
Q	NO DAMAGE	SHORT CIRCUIT	NO DAMAGE	OKAY	NO DAMAGE
L	OKAY	SHORT CIRCUIT	OKAY	NO DAMAGE	OKAY

- (1) LPD can shut down when plugged onto Differential through the use of DIFFSENS and DIFFSENS2.
- (2) Compatibility for LPD interfaces in differential mode is same as in chart above.



SCHEDULE FOR LOW POWER DIFFERENTIAL TRANSCIEVER DEVELOPMENT

- O PRESENT TEST RESULTS OF COMPARISON BETWEEN LOW POWER DIFFERENTIAL TRANSCIEVERS AND ACTIVE PULL-UP SINGLE-ENDED TRANSCIEVERS AT FEBRUARY '91 PLENARY.
- O IF LOW POWER DIFFERENTIAL PROVIDES SIGNIFICANT ADVANTAGES, CHANGE DIFFERENTIAL P, Q AND L CABLE PIN OUTS FOR COMPATIBILITY WITH SINGLE-ENDED PIN OUTS.
- O FINALIZE LOW POWER DIFFERENTIAL ELECTRICAL SPECIFICATIONS.