

PRODUCT AFFECTED/TITLE LINE, LINK, AND MARKER CIRCUIT	SYSTEM PBX	LDI ISSUE 38A SEP 10 1968
	CODE OR DOCUMENT IDENTIFICATION SD-65741-01	
REFERENCES	SHEET 1 OF 3	APPARATUS <input type="checkbox"/> EQUIPMENT <input type="checkbox"/> CIRCUIT <input checked="" type="checkbox"/> PROGRAM <input type="checkbox"/>
		NEW <input type="checkbox"/> CHANGE <input checked="" type="checkbox"/>
		WECO ENGR CONTROL LOC HW

APPARATUS NEW CODE <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL — BALANCE SCHEDULED FOR _____ PROBABLE DEMAND _____ <input type="checkbox"/> REPLACES THE _____ WHICH SHALL BE RATED _____ <input type="checkbox"/> DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT <input type="checkbox"/> DOES NOT REPLACE BUT REDUCES DEMAND FOR THE _____ BY _____ CUSTOMER: <input type="checkbox"/> ASSOCIATE <input type="checkbox"/> NON-ASSOCIATE RATING: <input type="checkbox"/> PROPOSED AT&TCO STD <input type="checkbox"/> DISTRIBUTOR STD <input type="checkbox"/> COMPONENT PART <input type="checkbox"/> NOT YET STD BY AT&TCO <input type="checkbox"/> OTHER _____ INITIAL USE: _____	APPARATUS CHANGE CLASS _____ CHANGE NEW AND OLD INTERCHANGEABLE <input type="checkbox"/> YES <input type="checkbox"/> NO CHANGE IN LIST OF COMPONENT APPARATUS: REPAIRED PRODUCT AFFECTED <input type="checkbox"/> YES <input type="checkbox"/> NO
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APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____ WILL BE RETAINED BY BTL WILL BE RETURNED TO APPLY ON ORDERS

PRODUCT MAY BE SHALL NOT BE SHIPPED PRIOR TO TOOL-MADE SAMPLE APPROVAL

ASSOCIATED SD DWG AFFECTED NOT AFFECTED SD _____ SCHED. FOR ISS. _____

EQUIPMENT CHANGE CLASS _____ AT&TCO RATING _____ ASSOCIATED CIRCUIT SCHEMATIC DWG _____ ISS _____ REPAIRED PRODUCT AFFECTED <input type="checkbox"/> YES <input type="checkbox"/> NO	CIRCUIT SCHEDULED FOR DWG ISS 39B DATE _____ CHANGE CLASS B ITEMS 1 PROJECT 756A EQUIPMENT CODES: J58829H TYPE OF CHANGE CHARGE CASE _____ <input type="checkbox"/> ANALYZATION <input type="checkbox"/> ENGR COMPLAINT <input type="checkbox"/> BTL—NOT ON PROJECT <input checked="" type="checkbox"/> WECO REQUEST SERVICE AFFECTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO COORDINATING CIRCUITS: NONE	PROGRAM CHANGE CLASS _____ GENERIC PROGRAM ISS _____ AT&TCO RATING _____ EQUIPMENT CODES: _____
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CHANGE/DESCRIPTION

THE FOLLOWING ITEM IS ADDED TO PREVENT A POSSIBLE RACE CONDITION IN THE LINE, LINK, AND MARKER CIRCUIT WHICH CAN RESULT IN THE PBX FAILING TO RETURN BUSY TONE THROUGH THE DIAL PULSE REGISTER CIRCUIT WHEN THE BUSY TONE TRUNK CIRCUIT IS BUSY.

THIS ITEM CORRECTS THE RACE CONDITION IN WHICH THE MARKER CIRCUIT SIGNALS THE REGISTER TO RELEASE BEFORE THE REGISTER CIRCUITRY HAS TIME TO RESPOND TO THE PREVIOUS MARKER SIGNAL TO HOLD AND RETURN BUSY TONE.

ITEM 1: OPTION VL IS DESIGNATED AND RATED MANUFACTURE DISCONTINUED. OPTION VM IS ADDED AND RATED STANDARD TO PREVENT THE MARKER FROM SIGNALING THE REGISTER TO RELEASE PROVIDED THE MARKER PREVIOUSLY SIGNALLED THE REGISTER TO HOLD AND RETURN BUSY TONE.

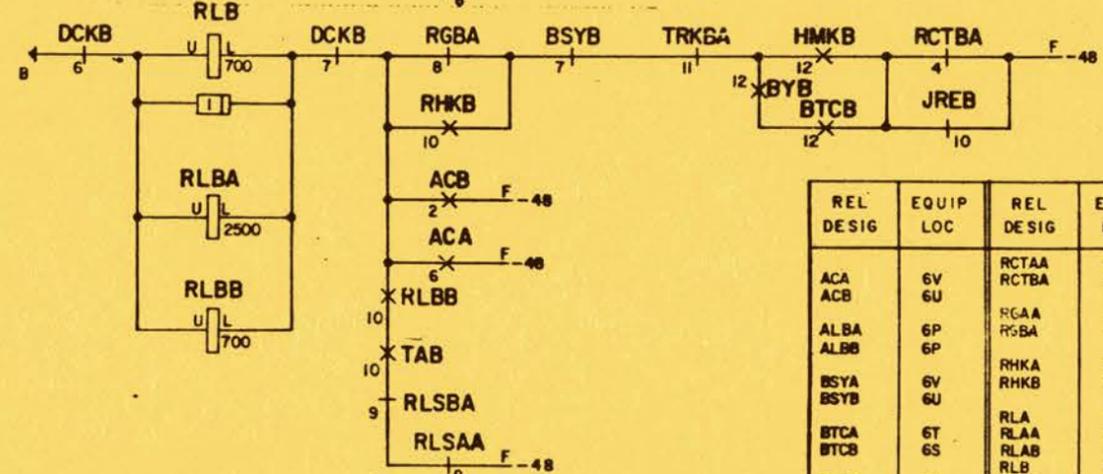
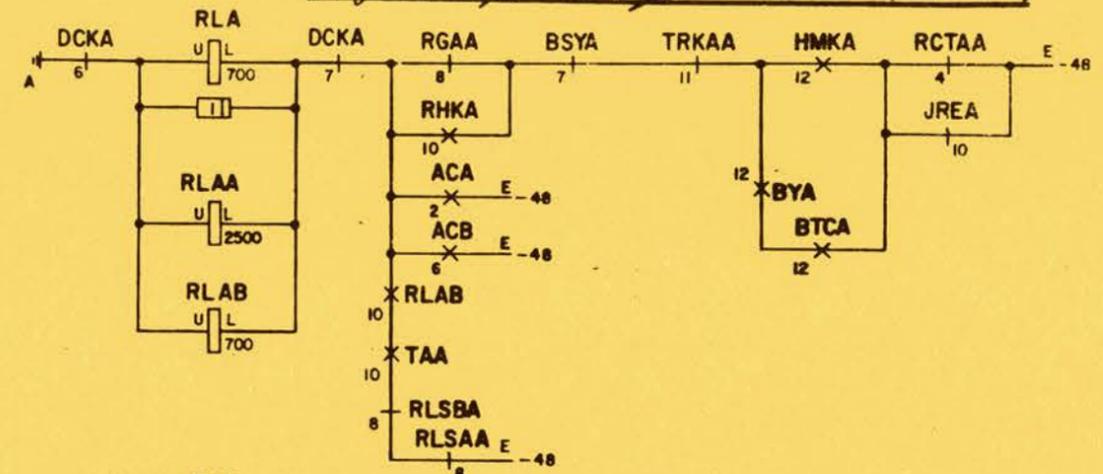
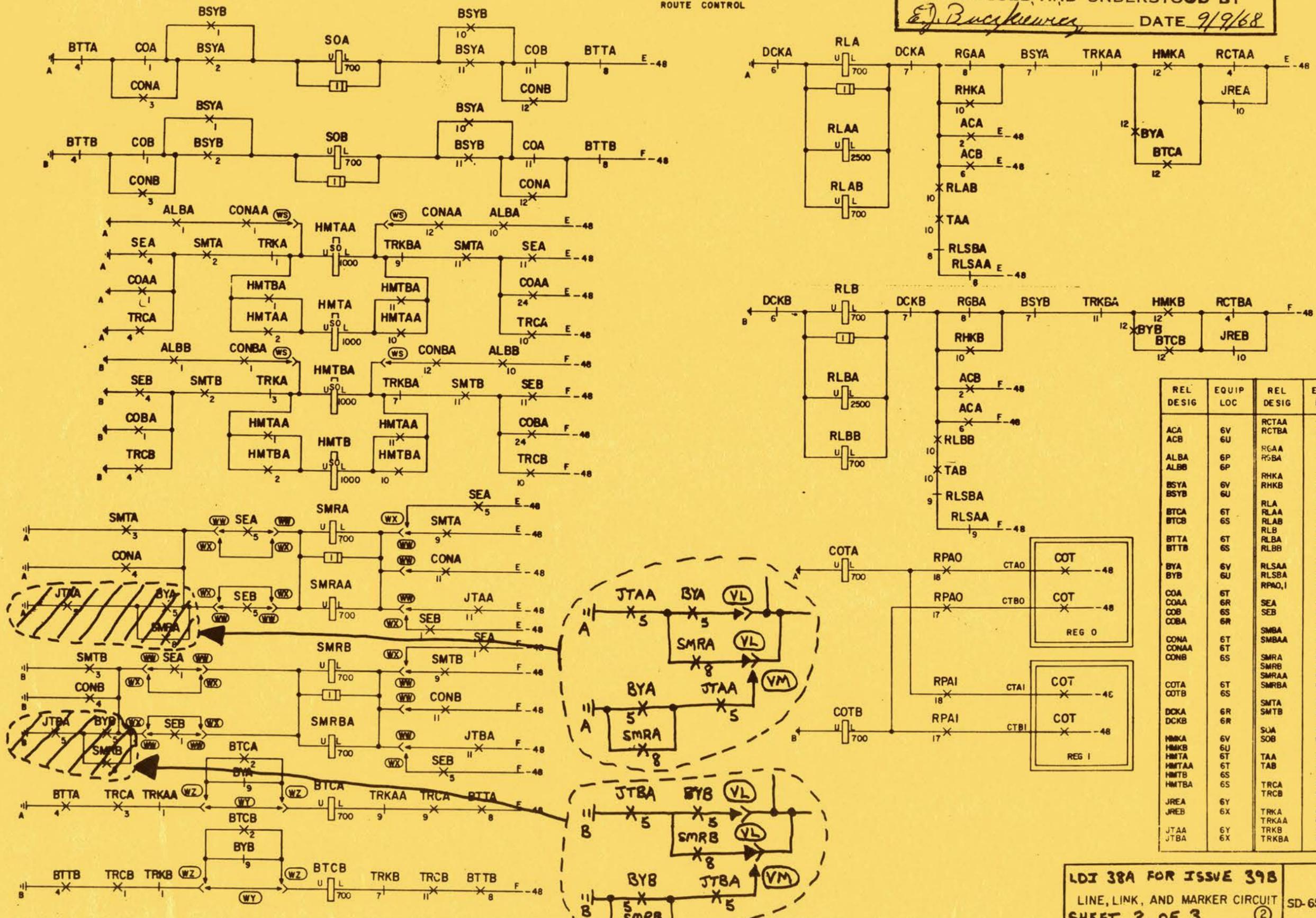
ATTACHMENTS <input type="checkbox"/> NONE	ADDITIONAL DISTRIBUTION NONE HISTORY COPY	REG L
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PRINCIPAL DWG	(TO BE COMPLETED BY WECO)	APPROVALS	DEPT 5122 BTL CONTROL LOC WECO-HW
	ISSUE	CKT ENGR J. J. G. [Signature] DATE 9/9/68 CKT ENGR _____ DATE _____ CKT SUPV R. H. [Signature] DATE 9/9/68 CKT SUPV _____ DATE _____ APP. EQUIP. OR PROG ENGR R. W. Fox DATE 9/9/68 APP. EQUIP. OR PROG SUPV _____ DATE _____	LAB TESTS <input type="checkbox"/> BEFORE CKT ISS <input type="checkbox"/> DEFERRED <input checked="" type="checkbox"/> NONE REQUIRED

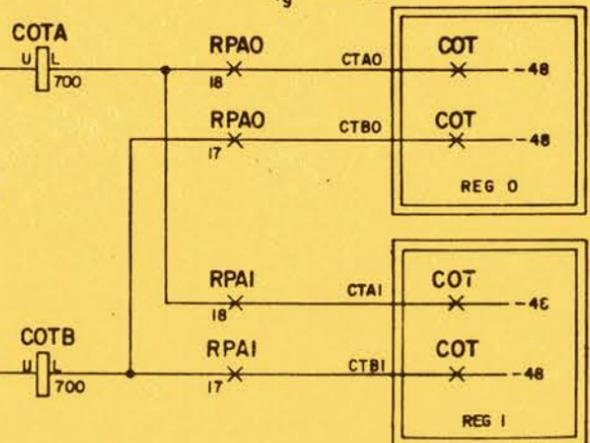
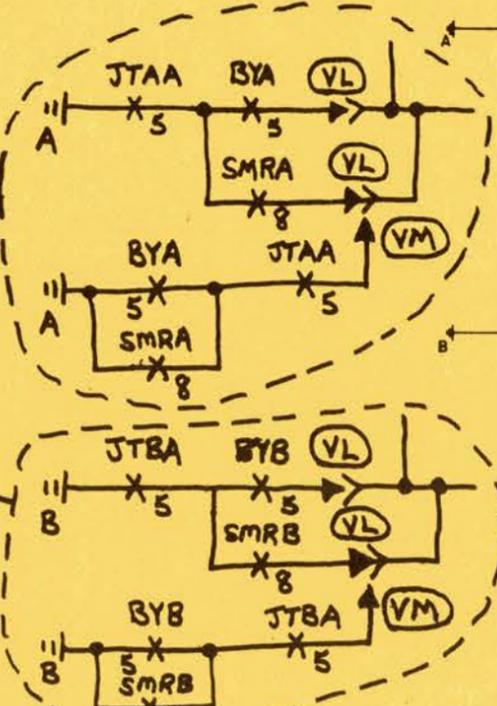
PART OF FS 9
ROUTE CONTROL

ENGINEER *J. J. Mone* DATE *9/9/68*
WITNESSED AND UNDERSTOOD BY
E. J. Buckner DATE *9/9/68*

DRAWING
ISSUE
1 PC WS
2 B FCC WS
3 B JDF
4 A RAC
6 A RST
WORN
DRAWING
REPRO-
DUCED
WITHOUT
CHANGE
1-13-67
JWR
FED
330 PJS
RHP
ROZ
368 PJS
LDJ



REL DESIG	EQUIP LOC	REL DESIG	EQUIP LOC
ACA	6V	RCTAA	6V
ACB	6U	RCTBA	6U
ALBA	6P	RGAA	6G
ALBB	6P	RGB A	6G
BSYA	6V	RHKA	6G
BSYB	6U	RHKB	6G
BTCA	6T	RLA	6T
BTCB	6S	RLAA	6T
BTTA	6T	RLB	6S
BTTB	6S	RLBA	6S
BYA	6V	RLBB	6S
BYB	6U	TAB	6J
COA	6T	RLSBA	6J
COAA	6R	RLSAA	6J
COB	6S	RPAO, I	6W
COBA	6R	SEA	6V
CONA	6T	SEB	6U
CONAA	6T	SMBA	6T
CONB	6S	SMBAA	6T
COTA	6T	SMRA	6T
COTB	6S	SMRB	6S
DCKA	6R	SMRAA	6T
DCKB	6R	SMRBA	6S
HMKA	6V	SMTA	6Q
HMKB	6U	SMTB	6Q
HMTA	6T	SOA	6R
HMTAA	6T	SOB	6R
HMTB	6S	TAA	6K
HMTBA	6S	TAB	6J
JREA	6Y	TRCA	6Y
JREB	6X	TRCB	6X
JTAA	6Y	TRKA	6Y
JTBA	6X	TRKAA	6Y
		TRKB	6X
		TRKBA	6X



HISTORY COPY

SD-65741-01-B15

LDI 38A FOR ISSUE 39B
LINE, LINK, AND MARKER CIRCUIT
SHEET 2 OF 3
BELL TELEPHONE LABORATORIES
INCORPORATED

PRODUCT AFFECTED/TITLE LINE, LINK, AND MARKER CIRCUIT		SYSTEM PBX		LDI ISSUE 38B DEC 16 1968	
REFERENCES		CODE OR DOCUMENT IDENTIFICATION SD-65741-01			
		APPARATUS <input type="checkbox"/> EQUIPMENT <input type="checkbox"/> CIRCUIT <input checked="" type="checkbox"/> PROGRAM <input type="checkbox"/>		NEW <input type="checkbox"/> CHANGE <input checked="" type="checkbox"/>	
		SHEET 1 OF 2		WECO ENGR CONTROL LOC H-1	

APPARATUS Y CODE _____ <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL - BALANCE SCHEDULED FOR _____ PROBABLE DEMAND _____ <input type="checkbox"/> REPLACES THE _____ WHICH SHALL BE RATED _____ <input type="checkbox"/> DOES NOT REPLACE OR REDUCE THE DEMAND FOR ANY PRODUCT <input type="checkbox"/> DOES NOT REPLACE BUT REDUCES DEMAND FOR THE _____ BY _____ CUSTOMER: <input type="checkbox"/> ASSOCIATE <input type="checkbox"/> NON-ASSOCIATE RATING: <input type="checkbox"/> PROPOSED AT&TCO STD <input type="checkbox"/> DISTRIBUTOR STD <input type="checkbox"/> COMPONENT PART <input type="checkbox"/> NOT YET STD BY AT&TCO <input type="checkbox"/> OTHER _____ INITIAL USE: _____	APPARATUS CHANGE CLASS _____ NEW AND OLD INTERCHANGEABLE <input type="checkbox"/> YES <input type="checkbox"/> NO CHANGE IN LIST OF COMPONENT APPARATUS: REPAIRED PRODUCT AFFECTED <input type="checkbox"/> YES <input type="checkbox"/> NO
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APPARATUS GENERAL

TOOL MADE SAMPLES: QUANTITY REQUIRED _____ WILL BE RETAINED BY BTL WILL BE RETURNED TO APPLY ON ORDERS
 PRODUCT MAY BE SHALL NOT BE SHIPPED PRIOR TO TOOL-MADE SAMPLE APPROVAL
 ASSOCIATED SD DWG AFFECTED NOT AFFECTED SD _____ SCHED. FOR ISS. _____

EQUIPMENT CHANGE CLASS _____ AT&TCO RATING _____ ASSOCIATED CIRCUIT SCHEMATIC DWG _____ ISS _____ REPAIRED PRODUCT AFFECTED <input type="checkbox"/> YES <input type="checkbox"/> NO	CIRCUIT SCHEDULED FOR DWG ISS 39B DATE _____ CHANGE CLASS B ITEMS 1 PROJECT 756A EQUIPMENT CODES: TYPE OF CHANGE CHARGE CASE J58829H <input type="checkbox"/> ANALYZATION <input type="checkbox"/> ENGR COMPLAINT <input type="checkbox"/> BTL-NOT ON PROJECT <input checked="" type="checkbox"/> WECO REQUEST SERVICE AFFECTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO COORDINATING CIRCUITS: NONE	PROGRAM CHANGE CLASS _____ GENERIC PROGRAM ISS _____ AT&TCO RATING _____ EQUIPMENT CODES: _____
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CHANGE/DESCRIPTION
 THIS LDI IS ISSUED TO PROVIDE ADDITIONAL INFORMATION TO LDI 38A FOR ISSUE 39B OF SD-65741-01.
 ON ISSUE 298 OF SD-65741-01, OPTION WD WAS ADDED TO PREVENT THE TROUBLE CONDITION MENTIONED ON LDI 38A. HOWEVER, THE ADDITION OF OPTION WD DID NOT COMPLETELY ELIMINATE THE TROUBLE. OPTION VM WAS ADDED ON LDI 38A TO GUARANTEE THE RETURN OF BUSY TONE TO THE CALLING PARTY SHOULD THE BUSY TONE TRUNK BE IN USE. HOWEVER, WHEN OPTION VM IS PROVIDED, OPTION WD MUST ALSO BE PROVIDED TO GUARANTEE PROPER OPERATION OF THIS SEQUENCE.
 TO INSURE THAT BOTH OPTIONS WD AND VM WILL BE PROVIDED ON MODIFICATIONS TO EXISTING PBX'S, ITEM 1 IS ADDED AS FOLLOWS:
 ITEM 1: OPTION WD IS RATED MANUFACTURE DISCONTINUED. THE WIRING PROVIDED BY OPTION WD IS RE-ADDED BY BEING DESIGNATED AS PART OF OPTION VM WHICH WAS ADDED AND RATED STANDARD ON LDI 38A.

ATTACHMENTS NONE	ADDITIONAL DISTRIBUTION NONE	REG	L
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(TO BE COMPLETED BY WECO) PRINCIPAL DWG _____ ISSUE _____	APPROVALS DEPT 5122 BTL CONTROL LOC WECO-HW			
	J.J. March CKT ENGR DATE 12/2/68	_____ CKT ENGR DATE _____	_____ CKT ENGR DATE _____	_____ CKT ENGR DATE _____
	_____ CKT SUPV DATE _____	R.H. Olsen CKT SUPV DATE 12/3/68	_____ CKT SUPV DATE _____	_____ CKT SUPV DATE _____
	_____ APP. EQUIP. OR PROG ENGR DATE _____	_____ APP. EQUIP. OR PROG ENGR DATE _____	_____ LAB TESTS _____	_____ LAB TESTS _____
	_____ APP. EQUIP. OR PROG SUPV DATE _____	_____ APP. EQUIP. OR PROG SUPV DATE _____	<input type="checkbox"/> BEFORE CKT ISS <input type="checkbox"/> DEFERRED <input checked="" type="checkbox"/> NONE REQUIRED	

