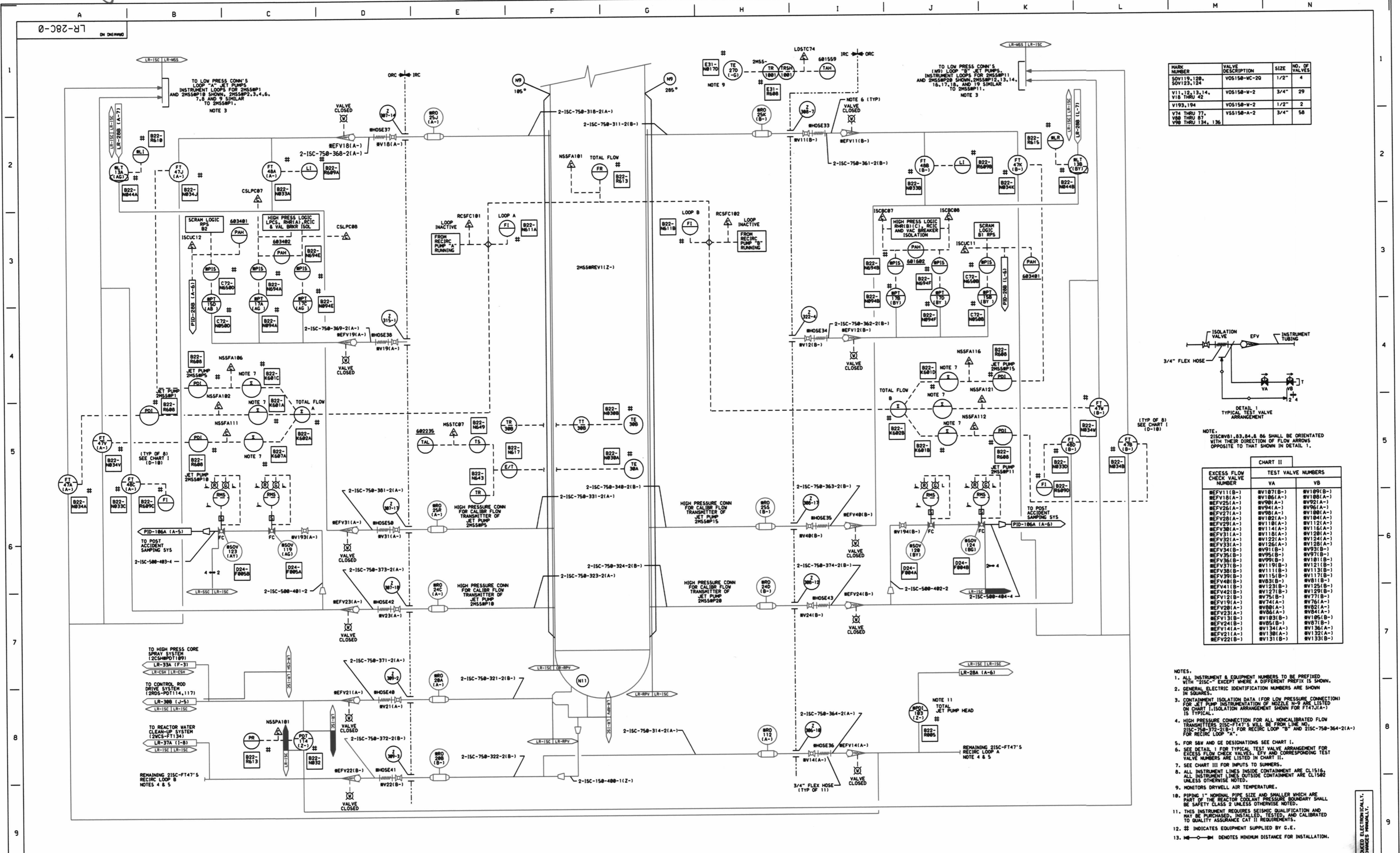


0039

LR-28C-0



MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
SV119, 120, SV123, 124	V05150-MC-20	1/2"	4
V11, 12, 13, 14, V15 THRU 42	V05150-M-2	3/4"	29
V193, 194	V05150-M-2	1/2"	2
V74 THRU 77, V81 THRU 87, V98 THRU 134, 136	V55150-A-2	3/4"	58

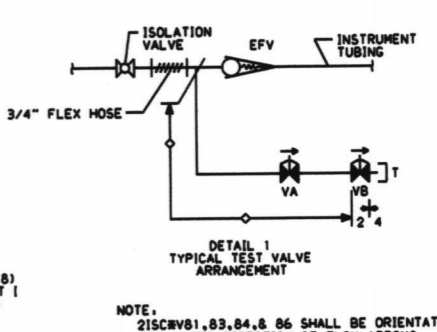


CHART II

EXCESS FLOW CHECK VALVE NUMBER	TEST VALVE NUMBER	VA	VB
REFV11(B)-	SV107(B)-	SV109(B)-	SV108(A)-
REFV18(A)-	SV186(A)-	SV188(A)-	SV187(A)-
REFV25(A)-	SV98(A)-	SV95(A)-	SV96(A)-
REFV26(A)-	SV94(A)-	SV94(A)-	SV94(A)-
REFV27(A)-	SV114(A)-	SV116(A)-	SV115(A)-
REFV28(A)-	SV182(A)-	SV184(A)-	SV183(A)-
REFV29(A)-	SV181(A)-	SV181(A)-	SV181(A)-
REFV31(A)-	SV181(A)-	SV181(A)-	SV181(A)-
REFV32(A)-	SV181(A)-	SV181(A)-	SV181(A)-
REFV33(A)-	SV126(A)-	SV128(A)-	SV127(A)-
REFV34(B)-	SV91(B)-	SV91(B)-	SV91(B)-
REFV36(B)-	SV99(B)-	SV101(B)-	SV100(B)-
REFV37(B)-	SV119(B)-	SV121(B)-	SV120(B)-
REFV38(B)-	SV111(B)-	SV113(B)-	SV112(B)-
REFV39(B)-	SV151(B)-	SV153(B)-	SV152(B)-
REFV40(B)-	SV83(B)-	SV81(B)-	SV82(B)-
REFV41(B)-	SV123(B)-	SV125(B)-	SV124(B)-
REFV42(B)-	SV127(B)-	SV129(B)-	SV128(B)-
REFV43(B)-	SV75(B)-	SV77(B)-	SV76(B)-
REFV44(B)-	SV141(A)-	SV143(A)-	SV142(A)-
REFV45(B)-	SV88(A)-	SV88(A)-	SV88(A)-
REFV23(A)-	SV81(B)-	SV81(B)-	SV81(B)-
REFV24(B)-	SV85(B)-	SV85(B)-	SV85(B)-
REFV21(A)-	SV130(A)-	SV132(A)-	SV131(A)-
REFV22(B)-	SV131(B)-	SV133(B)-	SV132(B)-

- NOTES:
- ALL INSTRUMENT & EQUIPMENT NUMBERS TO BE PREFIXED WITH "21SC" - EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
 - GENERAL ELECTRIC IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES.
 - CONTAINMENT ISOLATION DATA (FOR LOW PRESSURE CONNECTIONS) FOR JET PUMP INSTRUMENTATION OF NOZZLE N-3 ARE LISTED ON CHART I. ISOLATION ARRANGEMENT SHOWN FOR F147(A)-1 IS TYPICAL.
 - HIGH PRESSURE CONNECTION FOR ALL NON-CALIBRATED FLOW TRANSMITTERS 21SC-F147-5 WILL BE FROM LINE NO. 21SC-F148(A)-1. FOR RECIRC LOOP "B" AND 21SC-750-364-2(A)-1 FOR RECIRC LOOP "C".
 - FOR SBW AND GE DESIGNATIONS SEE CHART I.
 - SEE DETAIL I FOR TYPICAL TEST VALVE ARRANGEMENT FOR EXCESS FLOW CHECK VALVES, EPV AND CORRESPONDING TEST VALVE NUMBERS ARE LISTED IN CHART II.
 - ALL INSTRUMENT LINES INSIDE CONTAINMENT ARE CL1516, ALL INSTRUMENT LINES OUTSIDE CONTAINMENT ARE CL1502 UNLESS OTHERWISE NOTED.
 - MONITORS DRYWELL AIR TEMPERATURE.
 - PIPING 1" NOMINAL PIPE SIZE AND SMALLER WHICH ARE PART OF THE REACTOR COOLANT PRESSURE BOUNDARY SHALL BE SAFETY CLASS 2 UNLESS OTHERWISE NOTED.
 - THIS INSTRUMENT REQUIRES SEISMIC QUALIFICATION AND MAY BE PURCHASED, INSTALLED, TESTED, AND CALIBRATED TO QUALITY ASSURANCE CAT II REQUIREMENTS.
 - § INDICATES EQUIPMENT SUPPLIED BY G.E.
 - DENOTES MINIMUM DISTANCE FOR INSTALLATION.

CHART I

JET PUMP	LOOP	CALIBRATED JET PUMP INSTRUMENT	NON-CALIBRATED JET PUMP INSTRUMENT	LINE NUMBER INSIDE CONTAINMENT (LOW/HIGH PRESSURE CONN) NOTE 4	LINE NUMBER OUTSIDE CONTAINMENT (LOW/HIGH PRESSURE CONN) NOTE 4	PENETRATION NUMBER	RHOSE	ORIFICE RUN NUMBER	EXCESS FLOW CHECK VALVE NUMBER	CONTAINMENT ISOLATION VALVE NUMBER
1	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-16	46	WR025(A)-	REFV21(A)-	SV21(A)-
2	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-11	46	WR025(A)-	REFV26(A)-	SV26(A)-
3	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-13	39	WR024(A)-	REFV28(A)-	SV28(A)-
4	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-18	48	WR025(A)-	REFV29(A)-	SV29(A)-
5	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-14	37	WR025(A)-	REFV18(A)-	SV18(A)-
6	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-9	44	WR025(A)-	REFV31(A)-	SV31(A)-
7	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-7	40	WR025(A)-	REFV32(A)-	SV32(A)-
8	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-12	47	WR025(A)-	REFV28(A)-	SV28(A)-
9	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-15	51	WR025(A)-	REFV33(A)-	SV33(A)-
10	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-7	42	WR025(A)-	REFV31(A)-	SV31(A)-
11	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-18	48	WR025(A)-	REFV29(A)-	SV29(A)-
12	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-17	50	WR025(A)-	REFV31(A)-	SV31(A)-
13	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2307-11	46	WR025(A)-	REFV21(A)-	SV21(A)-
14	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-18	53	WR025(B)-	REFV34(B)-	SV34(B)-
15	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-16	56	WR025(B)-	REFV35(B)-	SV35(B)-
16	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-13	56	WR024(B)-	REFV31(B)-	SV31(B)-
17	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-18	56	WR025(A)-	REFV11(B)-	SV11(B)-
18	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-14	57	WR025(B)-	REFV38(B)-	SV38(B)-
19	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-15	58	WR025(B)-	REFV39(B)-	SV39(B)-
20	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-11	57	WR025(B)-	REFV37(B)-	SV37(B)-
21	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-9	58	WR025(B)-	REFV41(B)-	SV41(B)-
22	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-8	61	WR025(B)-	REFV42(B)-	SV42(B)-
23	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-17	65	WR025(B)-	REFV48(B)-	SV48(B)-
24	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-17	65	WR025(B)-	REFV49(B)-	SV49(B)-
25	A	21SC-F147(A)-1	B22-NB34A	2-ISC-750-327-2(A)-1	2-ISC-750-377-2(A)-1	2300-12	43	WR024(B)-	REFV24(B)-	SV24(B)-

CHART III

JET PUMP	JET PUMP INSTRUMENT	2CEC-PNL619 IND	SUMMER	COMPUTER INPUT
1	F147A	B22-R68B	B22-K681A	NSSF1A82
2	F147C	B22-R68B	B22-K681A	NSSF1A83
3	F147E	B22-R68B	B22-K681A	NSSF1A84
4	F147G	B22-R68B	B22-K681A	NSSF1A85
5	F147J	B22-R68B	B22-K681C	NSSF1A86
6	F147L	B22-R68B	B22-K681C	NSSF1A87
7	F147N	B22-R68B	B22-K681C	NSSF1A88
8	F147R	B22-R68B	B22-K681C	NSSF1A89
9	F147T	B22-R68B	B22-K687A	NSSF1A10
10	F147V	B22-R68B	B22-K687A	NSSF1A11
11	F147B	B22-R68B	B22-K681B	NSSF1A12
12	F147D	B22-R68B	B22-K681B	NSSF1A13
13	F147F	B22-R68B	B22-K681B	NSSF1A14
14	F147H	B22-R68B	B22-K681B	NSSF1A15
15	F147K	B22-R68B	B22-K681D	NSSF1A16
16	F147M	B22-R68B	B22-K681D	NSSF1A17
17	F147P	B22-R68B	B22-K681D	NSSF1A18
18	F147S	B22-R68B	B22-K681D	NSSF1A19
19	F147U	B22-R68B	B22-K687B	NSSF1A20
20	F147W	B22-R68B	B22-K687B	NSSF1A21

LR NOTE:
PLEASE REFER TO DRAWING LR-000 SHEETS 2A THROUGH 2F FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

SAFETY RELATED
(REF. SAR FIG. 5.1-2c & ISPT-28C)

Constellation Energy Group
NINE MILE POINT NUCLEAR STATION
UNIT 2 - SCRIBA, N.Y.
PIPING & INSTRUMENTATION DIAGRAM
NUCLEAR BOILER AND PROCESS INSTRUMENTATION

SCALE: NONE DRAWING NO: LR-28C-0