

INPUTS

- 1 $\overline{BR/\overline{W}}$
- 2 $B\phi 2$
- 3 \overline{DXXXCE}
- 4 \overline{XIXX}
- 5 $\overline{A\phi NA1}$
- 6 $A11$
- 7 $A2$
- 8 $A3$
- 9 $A4$
- 10 $A5$
- 11 $A6$
- 12 $A7$
- 13 DEUSEL

OUTPUTS

- 1 \overline{MLADWR} (D108-D10A)
- 2 \overline{DLADWR}
- 3 \overline{DIFFWR}
- 4 \overline{DIFFRD}
- 5 \overline{DBXX}
- 6 $\overline{DBFEXTSEL}$
- 7 \overline{DLADRD}

$$\overline{MLADWR} = \overline{B\phi 2} \wedge \overline{BR/\overline{W}} \wedge \overline{DXXX} \wedge \overline{XIXX} \wedge \overline{A2} \wedge \overline{A3} \wedge \overline{A4} \wedge \overline{A5} \wedge \overline{A6} \wedge \overline{A7}$$

$$\overline{DLADWR} = \overline{B\phi 2} \wedge \overline{BR/\overline{W}} \wedge \overline{DXXX} \wedge \overline{XIXX} \wedge \overline{A2} \wedge \overline{A3} \wedge \overline{A4} \wedge \overline{A5} \wedge \overline{A6} \wedge \overline{A7}$$

$$\overline{DLADRD} = \overline{B\phi 2} \wedge \overline{BR/\overline{W}} \wedge \overline{DXXX} \wedge \overline{XIXX} \wedge \overline{A2} \wedge \overline{A3} \wedge \overline{A4} \wedge \overline{A5} \wedge \overline{A6} \wedge \overline{A7}$$

$$\overline{DIFFRD} = \overline{B\phi 2} \wedge \overline{BR/\overline{W}} \wedge \overline{DXXX} \wedge \overline{XIXX} \wedge (\overline{A\phi NA1}) \wedge \overline{A2} \wedge \overline{A3} \wedge \overline{A4} \wedge \overline{A5} \wedge \overline{A6} \wedge \overline{A7}$$

$$\overline{DIFFWR} = \overline{B\phi 2} \wedge \overline{BR/\overline{W}} \wedge \overline{DXXX} \wedge \overline{XIXX} \wedge (\overline{A\phi NA1}) \wedge \overline{A2} \wedge \overline{A3} \wedge \overline{A4} \wedge \overline{A5} \wedge \overline{A6} \wedge \overline{A7}$$

$$\overline{DBXX} = \overline{DXXX} \wedge A11 \wedge DEUSEL$$

$$\begin{aligned} \overline{DBFEXTSEL} &= \overline{MLADWR} \vee \overline{DLADWR} \vee \overline{DLADRD} \vee \overline{DIFFRD} \vee \overline{DIFFWR} \vee \overline{DBXX} \\ &= \overline{MLADWR} \wedge \overline{DLADWR} \wedge \overline{DLADRD} \wedge \overline{DIFFRD} \wedge \overline{DIFFWR} \wedge \overline{DBXX} \end{aligned}$$