digraph {

"" [shape=none]

"F" [shape=doublecircle]

"" -> "S"

"E" -> "J"[label="b", weight="b"];

"J" -> "K"[label="a", weight="a"];

"K" -> "G"[label="a", weight="a"];

"H" -> "L"[label="b", weight="b"];

"L" -> "I"[label="b", weight="b"];

"C" -> "E"[label="$", weight="$"];

"G" -> "D"[label="$", weight="$"];

"C" -> "H"[label="$", weight="$"];

"I" -> "D"[label="$", weight="$"];

"S" -> "C"[label="$", weight="$"];

"S" -> "A"[label="$", weight="$"];

"D" -> "A"[label="$", weight="$"];

"O" -> "P"[label="a", weight="a"];

"Q" -> "R"[label="b", weight="b"];

"M" -> "O"[label="$", weight="$"];

"P" -> "N"[label="$", weight="$"];

"M" -> "Q"[label="$", weight="$"];

"R" -> "N"[label="$", weight="$"];

"B" -> "M"[label="$", weight="$"];

"B" -> "F"[label="$", weight="$"];

"N" -> "M"[label="$", weight="$"];

"N" -> "F"[label="$", weight="$"];

"A" -> "B"[label="$", weight="$"];

}