- 1. RSC code 21/37 = [10001/11111]
- 2. Trellis depth, N =32

Table 1: codewords with parity bit sequence weight $w_H(\mathbf{h})=2$

$w_H(\mathbf{b})$	a(x)	b(x)	h(x)
5	1	$1 + x + x^2 + x^3 + x^4$	$1+x^4$
8	$1 + x^4$	$1 + x + x^2 + x^3 + x^5 +$	$1 + x^8$
		$x^6 + x^7 + x^8$	
11	$1 + x^4 + x^8$	$1 + x + x^2 + x^3 + x^5 + $	$1 + x^{12}$
		$x^6 + x^7 + x^9 + x^{10} + x^{10}$	
		$x^{11} + x^{12}$	
14	$1 + x^4 + x^8 + x^{12}$	$1 + x + x^2 + x^3 + x^5 + $	$1 + x^{16}$
		$x^6 + x^7 + x^9 + x^{10} +$	
		$x^{11} + x^{13} + x^{14} + x^{15} + x^{15}$	
	10 10	x^{16}	20
17	$1 + x^4 + x^8 + x^{12} + x^{16}$		$1 + x^{20}$
		$x^{6} + x^{7} + x^{9} + x^{10} + x^{11} + x^{12} + x^{13} + x^{14} + x^{15} + x^{1$	
		$x^{11} + x^{13} + x^{14} + x^{15} + x^{16} + x$	
	. 4 9 19 16 90	$x^{17} + x^{18} + x^{19} + x^{20}$. 24
20	$1 + x^4 + x^8 + x^{12} + x^{16} + x^{20}$	$1 + x + x^2 + x^3 + x^5 + $	$1 + x^{24}$
		$x^{6} + x^{7} + x^{9} + x^{10} + x^{11} + x^{12} + x^{13} + x^{14} + x^{15} + x^{1$	
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
		$\begin{vmatrix} x^{17} + x^{18} + x^{19} + x^{21} + x^{19} +$	
00	$\frac{1 + x^4 + x^8 + x^{12} + x^{16} + x^{20} + x^{24}}{1 + x^4 + x^8 + x^{12} + x^{16} + x^{20} + x^{24}}$	$\frac{x^{2} + x^{2} + x^{2} + x^{2}}{1 + x + x^{2} + x^{3} + x^{5} + x^{5}}$	1 + 28
23	$ 1+x^{1}+x^{2}+x^{12}+x^{13}+x^{23}+x^{21} $	$\begin{vmatrix} 1+x+x^2+x^3+x^3+x^4+x^4+x^5+x^6+x^7+x^9+x^{10}+$	$1 + x^{28}$
		$\begin{vmatrix} x^3 + x^4 + x^5 + x^{13} + x^{14} + x^{15} + x^{15} + x^{14} + x^{15} +$	
		$\begin{vmatrix} x^{17} + x^{18} + x^{17} + x^{18} + x^{19} + x^{21} + x^{18} + x^{19} + x^{21} + x^{18} + x^{19} +$	
		$\begin{vmatrix} x^{2} + x^{3} + x^{4} + x + x + x + x + x + x + x + x + x + $	
		$\begin{vmatrix} x + x + x + x + x + x + x + x + x + x $	

Table 2: codewords with parity bit sequence weight $w_H(\mathbf{h})=4$

$w_H(\mathbf{b})$	a(x)	b(x)	h(x)
2	1+x	$1 + x + x^5$	$1 + x + x^4 + x^5$
	$1 + x^2$	$1 + x + x^5 + x^6$	$1 + x^2 + x^4 + x^6$
4	$1 + x + x^4 + x^5$	$1 + x^4 + x^5 + x^9$	$1 + x + x^8 + x^9$
	$1 + x^4 + x^5$	$1 + x + x^2 + x^3 + x^9$	$1 + x^5 + x^8 + x^9$
	$1 + x^3 + x^4$	$1 + x + x^2 + x^4 + x^8$	$1 + x^3 + x^7 + x^8$
5	$1 + x^2 + x^4$	$1 + x + x^4 + x^7 + x^8$	$1 + x^2 + x^6 + x^8$
	$1 + x + x^5$	$1 + x^6 + x^7 + x^8 + x^9$	$1 + x + x^4 + x^9$
	$1 + x + x^4$	$1 + x^4 + x^6 + x^7 + x^8$	$1 + x + x^5 + x^8$
	$1 + x^3$	$1 + x + x^2 + x^3 + x^5 + x^6 + x^7$	$1 + x^3 + x^4 + x^7$
6	$1 + x^2 + x^4 + x^6$	$1 + x + x^4 + x^6 + x^9 + x^{10}$	$1 + x^2 + x^8 + x^{10}$
	$1 + x + x^4 + x^5 + x^8 + x^9$	$1 + x^4 + x^5 + x^8 + x^9 + x^{13}$	$1 + x + x^{12} + x^{13}$

Table 3: codewords arranged according to $w_H(\mathbf{c})$

$w_H(\mathbf{c})$	a(x)	b(x)	h(x)
6	1+x	$1 + x^5$	$1 + x + x^4 + x^5$
7	1	$1 + x + x^2 + x^3 + x^4$	$1 + x^4$
	$1 + x^2$	$1 + x + x^5 + x^6$	$1 + x^2 + x^4 + x^6$
8	$1 + x + x^4 + x^5$	$1 + x^4 + x^5 + x^9$	$1 + x + x^8 + x^9$
	$1 + x + x^5 + x^6$	$1 + x^{10}$	$1 + x + x^4 + x^6 + x^9 + x^{10}$
	$1 + x^4 + x^5$	$1 + x + x^2 + x^3 + x^9$	$1 + x^5 + x^8 + x^9$
	$1 + x^3 + x^4$	$1 + x + x^2 + x^4 + x^8$	$1 + x^3 + x^7 + x^8$
9	$1 + x^2 + x^4$	$1 + x + x^4 + x^7 + x^8$	$1 + x^2 + x^6 + x^8$
	$1 + x + x^5$	$1 + x^6 + x^7 + x^8 + x^9$	$1 + x + x^4 + x^9$
	$1 + x + x^4$	$1 + x^4 + x^6 + x^7 + x^8$	$1 + x + x^5 + x^8$