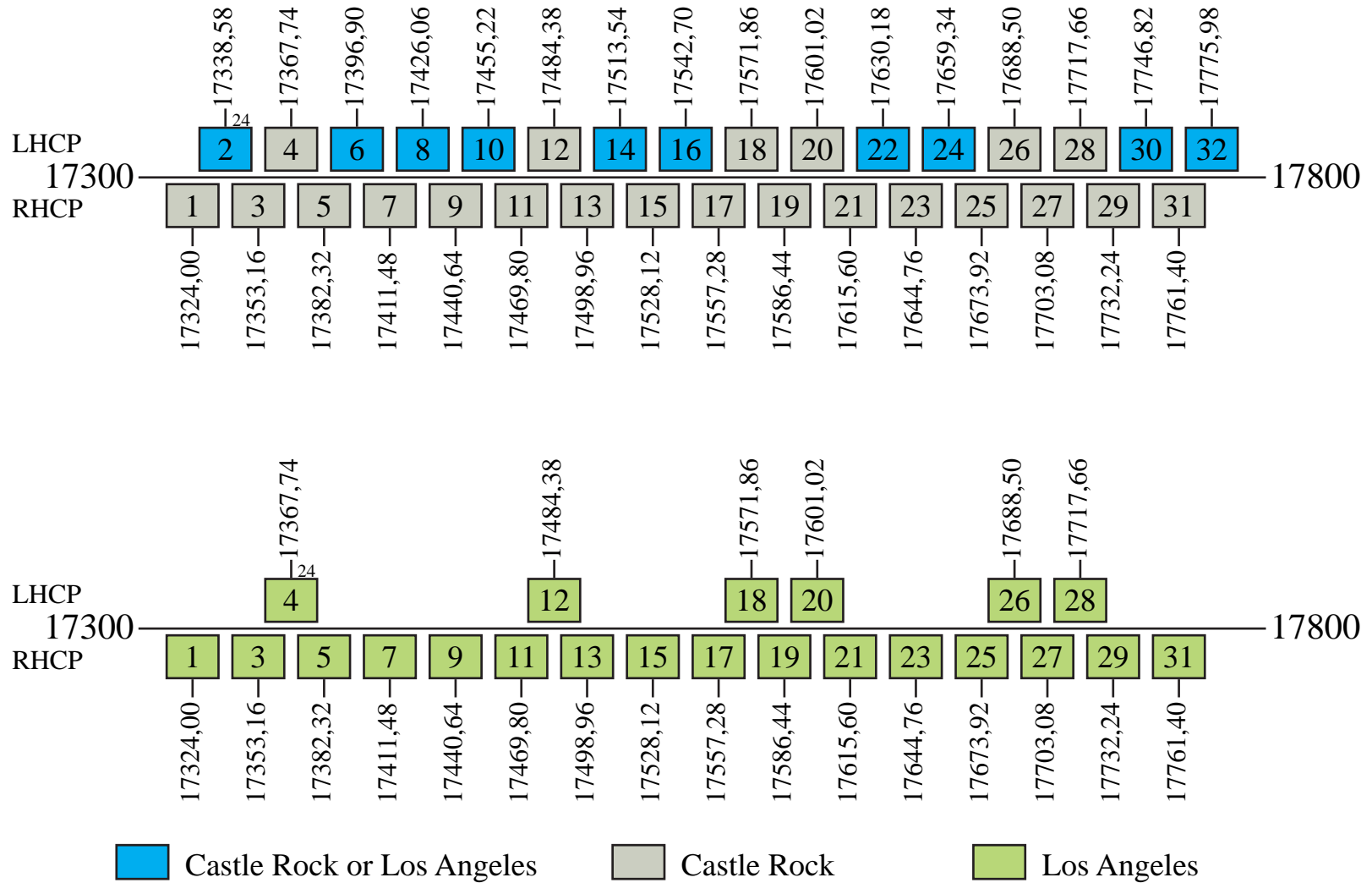


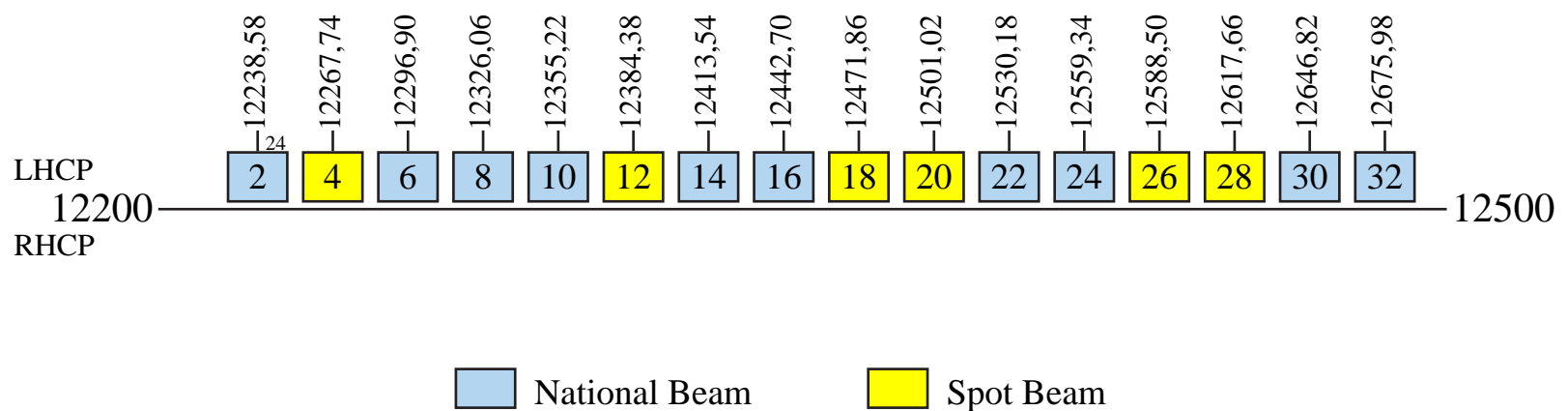
DirecTV 4S

Frequency Plan

Uplink



Downlink



Command 1: 17300,50 R
 Command 2: 17797,50 R
 Telemetry 1: 12698,75 R or L
 Telemetry 2: 12699,75 R

Spot Beam Interconnectivity

Beam	Downlink Ch.	Uplink Ch.	Uplink Site
1	28	27	Castle Rock
2	28	29	Castle Rock
3	20	21	Los Angeles
3	28	29	Los Angeles
4	28	31	Castle Rock
5	18	18	Castle Rock
5	28	28	Castle Rock
6	18	7	Castle Rock
6	28	17	Castle Rock
7	28	31	Los Angeles
8	28	27	Los Angeles
9	4	5	Castle Rock
9	12	13	Castle Rock
10	18	7	Los Angeles
10	28	17	Los Angeles
11	18	18	Los Angeles
11	28	28	Los Angeles
12	4	4	Castle Rock
12	12	12	Castle Rock
12	20	20	Castle Rock
13	4	3	Castle Rock
13	12	11	Castle Rock
13	20	19	Castle Rock
14	4	3	Los Angeles
14	12	11	Los Angeles
14	20	19	Los Angeles
15	12	13	Los Angeles
15	26	15	Los Angeles
16	12	1	Castle Rock
16	20	9	Castle Rock
17	20	23	Castle Rock
18	12	1	Los Angeles
18	20	9	Los Angeles
19	20	23	Los Angeles
20	4	4	Los Angeles
20	12	12	Los Angeles
20	20	20	Los Angeles
21	18	21	Castle Rock
21	26	15	Castle Rock
22	26	25	Castle Rock
23	26	26	Castle Rock
24	4	5	Los Angeles
25	26	26	Los Angeles
26	26	25	Los Angeles