

Antenna Model Exhibit

prepared 1/22/2020 for

UniMas Tampa, LLC

WVEA-DT Tampa, FL

Channel 20 1000 kW-DA 421 m

UniMas Tampa, LLC (“WVEA”) has completed construction of its post auction facility pursuant to construction permit file number 0000034006 with a revised antenna model number from that shown on the original construction permit. The As-Built antenna model is an ERI ATW27H4-ESC170-20H with identical azimuth pattern and electrical down tilt as specified in the construction permit. The following exhibit includes the manufacturers specified azimuth pattern data sheet and the calculated rotated pattern showing the equivalence of the As-Filed and As-Built antenna. The constructed facility complies with all the technical specifications and conditions of the station’s construction permit.

Tabulated Data for Azimuth Pattern

Type: ATW-C170

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	0.940	-0.54	100	0.232	-12.69	200	1.000	0.00	300	0.917	-0.75
2	0.925	-0.68	102	0.227	-12.88	202	0.999	-0.01	302	0.920	-0.72
4	0.910	-0.82	104	0.222	-13.07	204	0.997	-0.03	304	0.924	-0.69
6	0.893	-0.98	106	0.216	-13.31	206	0.995	-0.04	306	0.928	-0.65
8	0.874	-1.17	108	0.211	-13.51	208	0.992	-0.07	308	0.932	-0.61
10	0.854	-1.37	110	0.207	-13.68	210	0.988	-0.10	310	0.936	-0.57
12	0.832	-1.60	112	0.205	-13.76	212	0.983	-0.15	312	0.941	-0.53
14	0.809	-1.84	114	0.204	-13.81	214	0.978	-0.19	314	0.946	-0.48
16	0.785	-2.10	116	0.206	-13.72	216	0.973	-0.24	316	0.952	-0.43
18	0.760	-2.38	118	0.210	-13.56	218	0.968	-0.28	318	0.957	-0.38
20	0.733	-2.70	120	0.218	-13.23	220	0.963	-0.33	320	0.963	-0.33
22	0.706	-3.02	122	0.229	-12.80	222	0.957	-0.38	322	0.968	-0.28
24	0.677	-3.39	124	0.243	-12.29	224	0.952	-0.43	324	0.973	-0.24
26	0.648	-3.77	126	0.260	-11.70	226	0.946	-0.48	326	0.978	-0.19
28	0.619	-4.17	128	0.280	-11.06	228	0.941	-0.53	328	0.983	-0.15
30	0.588	-4.61	130	0.302	-10.40	230	0.936	-0.57	330	0.988	-0.10
32	0.558	-5.07	132	0.326	-9.74	232	0.932	-0.61	332	0.992	-0.07
34	0.527	-5.56	134	0.352	-9.07	234	0.928	-0.65	334	0.995	-0.04
36	0.497	-6.07	136	0.379	-8.43	236	0.924	-0.69	336	0.997	-0.03
38	0.466	-6.63	138	0.407	-7.81	238	0.920	-0.72	338	0.999	-0.01
40	0.437	-7.19	140	0.437	-7.19	240	0.917	-0.75	340	1.000	0.00
42	0.407	-7.81	142	0.466	-6.63	242	0.914	-0.78	342	1.000	0.00
44	0.379	-8.43	144	0.497	-6.07	244	0.911	-0.81	344	0.998	-0.02
46	0.352	-9.07	146	0.527	-5.56	246	0.909	-0.83	346	0.996	-0.03
48	0.326	-9.74	148	0.558	-5.07	248	0.907	-0.85	348	0.992	-0.07
50	0.302	-10.40	150	0.588	-4.61	250	0.905	-0.87	350	0.987	-0.11
52	0.280	-11.06	152	0.619	-4.17	252	0.904	-0.88	352	0.981	-0.17
54	0.260	-11.70	154	0.648	-3.77	254	0.903	-0.89	354	0.973	-0.24
56	0.243	-12.29	156	0.677	-3.39	256	0.902	-0.90	356	0.963	-0.33
58	0.229	-12.80	158	0.706	-3.02	258	0.901	-0.91	358	0.952	-0.43
60	0.218	-13.23	160	0.733	-2.70	260	0.900	-0.92	360	0.940	-0.54
62	0.210	-13.56	162	0.760	-2.38	262	0.900	-0.92			
64	0.206	-13.72	164	0.785	-2.10	264	0.900	-0.92			
66	0.204	-13.81	166	0.809	-1.84	266	0.899	-0.92			
68	0.205	-13.76	168	0.832	-1.60	268	0.899	-0.92			
70	0.207	-13.68	170	0.854	-1.37	270	0.899	-0.92			
72	0.211	-13.51	172	0.874	-1.17	272	0.899	-0.92			
74	0.216	-13.31	174	0.893	-0.98	274	0.899	-0.92			
76	0.222	-13.07	176	0.910	-0.82	276	0.900	-0.92			
78	0.227	-12.88	178	0.925	-0.68	278	0.900	-0.92			
80	0.232	-12.69	180	0.940	-0.54	280	0.900	-0.92			
82	0.236	-12.54	182	0.952	-0.43	282	0.901	-0.91			
84	0.240	-12.40	184	0.963	-0.33	284	0.902	-0.90			
86	0.242	-12.32	186	0.973	-0.24	286	0.903	-0.89			
88	0.244	-12.25	188	0.981	-0.17	288	0.904	-0.88			
90	0.245	-12.22	190	0.987	-0.11	290	0.905	-0.87			
92	0.244	-12.25	192	0.992	-0.07	292	0.907	-0.85			
94	0.242	-12.32	194	0.996	-0.03	294	0.909	-0.83			
96	0.240	-12.40	196	0.998	-0.02	296	0.911	-0.81			
98	0.236	-12.54	198	1.000	0.00	298	0.914	-0.78			

Dielectric As-filed	
Azimuth	Relative Field
0	0.899
10	0.9
20	0.905
30	0.917
40	0.936
50	0.963
60	0.988
70	1
80	0.987
90	0.94
100	0.854
110	0.733
120	0.588
130	0.437
140	0.302
150	0.218
160	0.207
170	0.232
180	0.245
190	0.232
200	0.207
210	0.218
220	0.302
230	0.437
240	0.588
250	0.733
260	0.854
270	0.94
280	0.987
290	1
300	0.988
310	0.963
320	0.936
330	0.917
340	0.905
350	0.9

Additional Azimuths	
71	1
289	1
204	0.204
156	0.204

ERI As-Built			
Pre-Rotated Azimuth	Azimuth	Relative Field	Delta
270	0	0.899	0
280	10	0.9	0
290	20	0.905	0
300	30	0.917	0
310	40	0.936	0
320	50	0.963	0
330	60	0.988	0
340	70	1	0
350	80	0.987	0
0	90	0.94	0
10	100	0.854	0
20	110	0.733	0
30	120	0.588	0
40	130	0.437	0
50	140	0.302	0
60	150	0.218	0
70	160	0.207	0
80	170	0.232	0
90	180	0.245	0
100	190	0.232	0
110	200	0.207	0
120	210	0.218	0
130	220	0.302	0
140	230	0.437	0
150	240	0.588	0
160	250	0.733	0
170	260	0.854	0
180	270	0.94	0
190	280	0.987	0
200	290	1	0
210	300	0.988	0
220	310	0.963	0
230	320	0.936	0
240	330	0.917	0
250	340	0.905	0
260	350	0.9	0

Additional Azimuths			
341	71	1	0
199	289	1	0
114	204	0.204	0
66	156	0.204	0