

OFFICE OF THE COUNTY EXECUTIVE ROCKVILLE, MARYLAND 20850

Isiah Leggett County Executive

MEMORANDUM

February 2, 2018

TO:

Hans Riemer, President

Montgomery County Council

FROM:

Isiah Leggett

County Executive

Soil Tyself

SUBJECT:

Telecommunications Towers - ZTA

I am attaching a Zoning Text Amendment (ZTA) for the Council's consideration that would amend zoning regulations related to placement of telecommunications towers. Because wireless technology is evolving, Montgomery County has recently received an unprecedented number of applications to deploy small cell antennas in the County. Council amended the zoning code in the mid-1990's to address 100 foot+ tall cell towers, and in 2014 to address limited small cell deployments. Further action is needed now to address small cells in dense urban areas and on utility poles.

On one hand, we all welcome the coming transformation that allows us to be one of the most digitally connected counties at home and at business. On the other hand, many of our residents are concerned about the placement of these antennas. Because of this concern, I sponsored four public forums over the past year to hear from the public about proposed changes to the zoning code to allow deployment of small cell antennas both in commercial and residential neighborhoods.

Because of the concerns that have been expressed by our residents, this ZTA will propose very limited changes in residential zones. It will allow deployment of small cell antennas as a limited use only in those zones where commercial and employment uses are allowed, the CRN, CRT, CR and NR zones. I will come back with proposal for changes in residential zones at a later date.

As noted in the community meetings, residents also expressed concerns about the health effects of radio frequency (RF) emissions from antennas, especially antennas that would be placed much closer to houses. As you are aware, the Federal Communications Commission (FCC) has exclusive jurisdiction to establish RF emissions standards, and local jurisdictions are preempted from regulating antennas deployments based on health effects. The FCC has not

Hans Riemer, President February 2, 2018 Page 2

updated its RF emission standards since 1996. We have learned that many of these standards are actually based on 1980s standards. We all agree that FCC's failure to issue new standards undermines public confidence that its rules will adequately address new wireless technology, and for that reason, Council President Riemer, Congressman Jamie Raskin and staff from all of our congressional delegation, and I met with FCC Chairman Ajit Pai in May 2017 to urge the FCC to update the RF standards.

Further, there is a very real threat of both federal and state preemption. We anticipate that in the very near term, an industry-sponsored bill that would preempt local zoning over small cell antennas may be introduced in the Maryland General Assembly. Therefore, it is important that Montgomery County move to enact zoning changes to demonstrate that we have provided a local solution. The ZTA I am proposing works to allow more deployments in commercial/residential zones, allows deployment of antennas that can support four carriers, and allows deployment of antennas on lower height buildings. It does not change, and leaves for further discussion, changes to deployments in residential areas.

I look forward to working with the Council to ensure a successful solution to the deployment of small cell technology.

IL/mh

Zoning Text Amendment No.: 18-XX Concerning: Telecommunications

Towers – Limited Use

Draft No. & Date:

Introduced:

Public Hearing:

Adopted:

Effective:

Ordinance No.:

COUNTY COUNCIL FOR MONTGOMERY COUNTY, MARYLAND SITTING AS THE DISTRICT COUNCIL FOR THAT PORTION OF THE MARYLAND-WASHINGTON REGIONAL DISTRICT WITHIN MONTGOMERY COUNTY, MARYLAND

Lead Sponsor: Council President at the request of the Executive

AN AMENDMENT to the Montgomery County Zoning Ordinance to:

- allow certain telecommunications towers as a limited use;
- revise the use standards for antennas;
- revise the standards for antennas on existing structures;
- allow telecommunications towers as a limited use in certain zones; and
- amend telecommunications tower and cellular antenna provisions.

By amending the following sections of the Montgomery County Zoning Ordinance, Chapter 59 of the Montgomery County Code:

DIVISION 59-3.1. "Use Table"

Section 3.1.6. "Use Table"

DIVISION 59-3.5. "Commercial Uses"

Section 3.5.2. "Communication Facility"

Section 3.5.14. "Accessory Commercial Uses"

DIVISION 59-8.3. "Planned Unit Development Zones"

Section 59-8.3.2. "PD Zone"

Section 59-8.3.3. "T-S Zone"

Section 59-8.3.4. "Planned Neighborhood Zone"

Section 59-8.3.5. "Planned Retirement Zone"

Section 59-8.3.6. "Planned Cultural Center Zone"

EXPLANATION: Boldface indicates a Heading or a defined term.

<u>Underlining</u> indicates text that is added to existing law by the original text amendment or by ZTA 14-09.

[Single boldface brackets] indicate text that is deleted from existing law by original text amendment.

<u>Double underlining</u> indicates text that is added to the text amendment by amendment or text added by this amendment in addition to ZTA 14-09. [[Double boldface brackets]] indicate text that is deleted from the text amendment by amendment or indicates a change from ZTA 14-09.

* * * indicates existing law unaffected by the text amendment.

ORDINANCE

The County Council for Montgomery County, Maryland, sitting as the District Council for that portion of the Maryland-Washington Regional District in Montgomery County, Maryland, approves the following ordinance:

Sec. 1. DIVISION 59-3.1 is amended as follows:

DIVISION 59-3.1. Use Table

*

4 Section 3.1.6. Use Table

The following Use Table identifies uses allowed in each zone. Uses may be modified in Overlay zones under

6 Division <u>4.9</u>.

	;			<u>.</u>		<u>.</u> _	-				oz.	Residential	jaj						8	Commercial	<u>=</u>							
USE OR USE GROUP	Definitions and	<u> </u>	å	Residential	Į a	<u>. </u>		Reside	Residential Detached	tached			Ψº	Residential Townhouse	al	Ϋ́Z	Residential Multi-Unit	al t	쫎	Residential	lal		Етріоутеп	/ment		μ	Industrial	_
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Key: P = Permitted Use L = Limited Use C = Conditional Use Blank Cell = Use Not Allowed

Sec. 2. DIVISION 59-3.5 is amended as follows:

DIVISION 3.5 Commercial Uses

10 * * *

11 Section 3.5.2. Communication Facility

12 * * *

C. Telecommunications Tower

1. Defined

a. Telecommunications Tower means any structure, other than a building, [providing] used to provide wireless voice, data or image transmission within a designated service area.
Telecommunications Tower [consists of] includes one or more antennas attached to a support structure and related equipment, but does not include amateur radio antenna (see Section 3.5.14.A and Section 3.5.14.B, Amateur Radio Facility), radio or TV tower (see Section 3.5.2.B, Media Broadcast Tower), or an antenna on an existing structure (See Section 3.5.14.C, Antenna on Existing Structure).

b. Antenna Dimension means an antenna and any enclosure

containing the antenna, in which the total combined size of the

antenna within any enclosure, meets the following dimensions:

Standard	Maximum Length on Any Side (in feet)	Maximum Volume (in cubic feet excluding any equipment cabinet)
<u>A</u>	4 feet 2 inches	<u>6 cubic feet</u>
<u>B</u>	4 feet 2 inches	46 cubic feet
<u>C</u>	6 feet	30 cubic feet
D	9 feet	13 cubic feet
<u>E</u>	15 feet	1 cubic foot

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28					
29	2.	Use	Standaı	ds	
30		a.	When	e a Te	elecommunications Tower is allowed as a limited use
31			in the	<u>Agric</u>	cultural zone, Rural zone, Rural Cluster zone,
32			<u>Empl</u>	oymeı	nt zones, and Industrial zones, and the Tower is not a
33			repla	cemen	t tower that complies with 59.3.5.2.C.2.b, it must
34			satisf	y the f	following standards:
35			[i.	It mu	st not be staffed.]
36			[ii] <u>i</u> .	Ante	nnas are limited to the following[types and
37				dime	nsions]:
38				(a)	an antenna that satisfies one of the Antenna
39			-		Dimensions standards in Section 59.3.5.2.C.1.b;
40					[omni-directional (whip) antennas with a
41					maximum height of 15 feet and a maximum
42					diameter of 3 inches];
43				(b)	[directional or panel antennas with a maximum
44					height of 8 feet and a maximum width of 2 feet;
45					and
46				(c)]	satellite or microwave dish antennas with a
47					maximum diameter of 8 feet.
48			[iii] <u>ii</u>	. Sign	s or illumination on the antennas or support structure
49				are p	prohibited unless required by the Federal
.50				Com	munications Commission, the Federal Aviation
51				Adm	inistration, or the County.
52			[iv] <u>ii</u>	<u>i</u> . In tł	ne AR, R, and RC zones, the tower must be located
53				with	in an overhead transmission line right-of-way and is
54				a ma	ximum height of [199]179 feet with a setback of one

55			foot for every foot of height from any dwelling. The
56			tower must be a minimum of 300 feet from any
57			residence. A Telecommunications Tower conditional use
58			application may be filed with the Hearing Examiner to
59			deviate from this standard.
60		[v] <u>iv</u> .	In the LSC, IL, IM, IH, zones, the tower is a maximum
61			height of [199]179 feet with a setback of one foot for
62			every foot of height from the property lines of all
63			properties zoned Agricultural, Rural Residential, or
64			Residential.
65		[vi] <u>v</u> .	In the GR and EOF zones, the tower is a maximum
66			height of [150]130 feet with a setback of one foot for
67			every foot of height from the property lines of all
68			properties zoned Agricultural, Rural Residential, or
69			Residential. A Telecommunications Tower conditional
70			use application may be filed with the Hearing Examiner
71			to deviate from this standard.
72	b.	In the	Commercial/Residential, Industrial, and Employment
73		zones	, where a Telecommunications Tower is allowed as a
74		limite	d use and the tower would replace a pre-existing utility
75		pole,	streetlight pole, or site plan approved parking lot light
76		pole,	the Tower is allowed if it satisfies the following standards:
77_		<u>i.</u>	Antennas must comply with the Antenna Classification
78			Category A under Section 59.3.5.2.C.1.b and must be
79			installed perpendicular to the ground;

80	<u>ii.</u>	The t	ower must replace a pre-existing utility pole,
81		street	tlight pole, or site plan approved parking lot light
82		pole,	and be located:
83		<u>(a)</u>	within 2 feet of the base of a pre-existing pole and
84			at the same distance from the curb line, or edge of
85			travel lane in an open section, as the pre-existing
86			pole in a public right-of-way;
87		<u>(c)</u>	at least 10 feet from an existing building;
88		<u>(c)</u>	outside of the roadway clear zone as determined by
89			the Department of Transportation;
90		<u>(d)</u>	in a manner that allows for adequate sight
91	1		distances as determined by the Department of
92			Transportation;
93		<u>(e)</u>	in a manner that complies with streetlight
94			maintenance requirements as determined by the
95			Department of Transportation; and
96	<u>iii.</u>	A pre	e-existing streetlight or parking lot light pole must be
97		remo	oved within 10 business days after power is activated
98		to the	e replacement tower and a pre-existing utility pole
99		<u>must</u>	be removed within 180 days after a replacement
100		utilit	y pole is installed.
101	<u>iv.</u>	The l	height of the tower, including any attached antennas
102		and e	equipment, must not exceed:
103		(a)	for streetlights, the height of the pole that is being
104			replaced
105			(1) plus 6 feet when abutting a right-of-way
106			with a paved section width of 65 feet or less;

107			<u>(2)</u>	plus 15 feet when abutting a right-of-way
108				with a paved section width greater than 65
109				feet;
110		(b)	<u>for</u> <u>u</u>	tility poles and parking lot lights, the height of
111			the p	re-existing utility or parking lot light pole plus
112			<u>10 fe</u>	<u>eet.</u>
113	<u>V.</u>	The 1	tower 1	must be the same color as the nearest pre-
114		exist	ing po	<u>le.</u>
115	<u>vi.</u>	The 1	tower 1	must have no exterior wiring, except that
116		exter	rior wi	ring may be enclosed in shielded conduit on
117		wood	den or	utility poles.
118	<u>vii.</u>	Any	equipr	nent cabinet:
119		<u>(a)</u>	must	not exceed a maximum volume of 12 cubic
120			feet;	
121		<u>(b)</u>	used	to support antennas on a replacement
122			stree	tlight pole, must be installed in the
123			Tele	communications Tower base or at ground
124			<u>level</u>	, unless this requirement is waived by the
125			Depa	artment of Transportation;
126		<u>(c)</u>	must	be the same color or pattern as the pre-
127			exist	ing structure, except as provided in Section
128			<u>59.3</u>	.5.2.C.2.b.vii.(d);
129		<u>(d)</u>	may	be a stealth design approved by the
130			Depa	artment of Transportation.
131	<u>viii.</u>	The :	tower :	must include a replacement streetlight, if a
132		stree	tlight o	existed on the pre-existing pole.

133					<u>1X.</u>	The design of a replacement tower located in a public
134						right-of-way, including the footer and the replacement
135						streetlight, must be approved by the Department of
136						Transportation.
137					<u>X.</u>	The noise level of any fans used to cool antenna and
138						equipment must comply with Chapter 31B.
139					<u>xi.</u>	Signs or illumination on the antennas or support
140						structure, excepting a streetlight, are prohibited unless
141						required by the Federal Communications Commission,
142						the Federal Aviation Administration, or the County.
143					<u>xii.</u>	Each owner of antennas attached to the tower must
144						maintain antennas, equipment and abutting tower areas in
145						a safe condition, remove graffiti, and repair damage.
146		v			<u>xiii.</u>	If a tower does not have a streetlight, the tower must be
147						removed at the cost of the owner of the tower when the
148						tower is no longer in use for more than 12 months.
149						Antennas and equipment must be removed at the cost of
150						the owner of the antenna and equipment when the
151						antennas and equipment are no longer in use for more
152						than 12 months. The Transmission Facilities
153						Coordinating Group must be notified within 30 days of
154						the removal.
155				[b] <u>c</u> .	When	re a Telecommunications Tower is allowed as a conditional
156					use, i	t may be permitted by the Hearing Examiner under
157					Secti	on 3.5.2.C.2.a Limited Use standards, Section 7.3.1
158					Conc	litional Use, and the following standards:
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- ii. A Telecommunications Tower must be set back [from the property line,]as measured from the base of the support structure, as follows:
 - (a) A Telecommunications Tower is prohibited in any scenic setback indicated in a master plan.
 - (b) In the Agricultural, Rural Residential, and Residential Detached zones, a distance of one foot for every foot of height or 300 feet from an existing dwelling, whichever provides the greater setback.
 - (c) In the Employment zones, a distance of one-half foot for every foot of height [when] from the property lines of abutting Commercial/Residential, Employment, or Industrial zoned properties, and one foot for every foot of height [when] from the property lines of abutting Agricultural, Rural Residential, Residential zoned properties.
 - (d) The Hearing Examiner may reduce the setback requirement to not less than the building setback for a detached house building type in the applicable zone or to a distance of one foot from an off-site dwelling for every foot of height of the support structure, whichever is greater, if evidence indicates that a reduced setback will allow the support structure to be located on the property in a less visually obtrusive location than locations onsite where all setback requirements can be met

187				after considering the height of the structure,
188				topography, existing vegetation, nearby residential
189				properties, and visibility from the street. A reduced
190				setback may be approved only if there is a location
191				on the property where the setback requirements
192				can be met.
193			iii.	The maximum height of a support structure and antenna
194				is [155]135 feet, unless it can be demonstrated that
195				additional height up to [199]179 feet is needed for
196				service, collocation, or public safety communication
197				purposes. At the completion of construction, before the
198				support structure may be used to transmit any signal, and
199				before the final inspection required by the building
200				permit, the applicant must certify to DPS that the height
201				and location of the support structure conforms with the
202				height and location of the support structure on the
203				building permit.
204	*	* *		
205	Sect	ion 3.5	5.14. Accesso	ry Commercial Uses
206	*	* *		
207	C.	Ante	enna on Exist	ing Structure
208		1.	Defined	
209			Antenna or	Existing Structure means one or more antennas attached
210			to an existi	ng support structure, including [such as] a building, a
211			transmissio	on tower, a monopole, a light pole, a utility pole, a water
212			tank, a silo	, a barn, or an overhead transmission line support structure.
213			Antenna or	Existing Structure includes related equipment.

214		2	2.	Use S	Standar	rds .
215				When	e an A	ntenna on Existing Structure is allowed as a limited use, it
216				must	satisfy	the following standards:
217				a.	Anter	nnas are limited to the following types and dimensions:
218					<u>i.</u>	an antenna that satisfies one of the Antenna Dimensions
219						standards in Section 59.3.5.2.C.1.b; and
220					[i.	omni-directional (whip) antennas with a maximum height
221						of 15 feet and a maximum diameter of 3 inches;
222					ii.	directional or panel antennas with a maximum height of 8
223						feet and a maximum width of 2 feet;
224					iii] <u>ii.</u>	satellite, radar, or microwave dish antennas with a
225						maximum diameter of 8 feet. If the building includes a
226						media broadcast studio, a dish may have a maximum
227						diameter of 22 feet[; and
228					iv.	small cell antennas with a maximum height of 3 feet and
229						a maximum width of 2 feet].
230	*	*	*			
231				c.	Asso	ciated equipment must be located in an unmanned
232					build	ing, equipment cabinet, or equipment room in an existing
233					build	ing.
234					<u>i.</u>	An equipment building must satisfy the following
235		,				standards:
236						[i.](a) It is a maximum of 560 square feet in area;
237						however, a single equipment building in excess of
238						560 square feet, located at ground level, may be
239						used if:

240	Į		([a]1) the overall maximum square footage is
241			1,500 square feet and the maximum height is
242			12 feet;
243			([b]2) the building is used for more than one
244			telecommunications provider operating from
245			the same monopole or tower; and
246			([c]3) the building is reviewed by the
247			Telecommunications Transmission Facility
248			Coordinating Group under Chapter 2
249			(Section 2-58E).
250			[ii.](b)It is a maximum of 14 feet in height, including the
251			support structure for the equipment building.
252			[iii.](c)If the equipment building is greater than 4 feet in
253			height and is[or cabinet is at ground level] in a
254			Residential zone, or the nearest abutting property
255			is in a Residential zone, [and the equipment
256			building or cabinet is more than 4 feet in height,
257			including the support structure, the building or
258			cabinet Ithe building must be faced with brick or
259			other material compatible with the surrounding
260			neighborhood on all sides. [and the equipment
261			must be surrounded by landscaping of at least 3
262			feet in height.]
263		<u>ii.</u>	If an equipment cabinet and any supporting platform is
264			greater than 4 feet in height, and supports an Antenna on
265			an Existing Structure that is not a utility pole, streetlight
266			pole, or site plan approved parking lot light pole, and the

267						<u>Existi</u>	ng Structure is in a Residential zone, or the nearest
268						<u>abutti</u>	ng property to the Existing Structure is in a
269						Resid	ential zone, the equipment must be surrounded by
270						lands	caping of at least 3 feet in height.
271					<u>iii.</u>	If an	equipment cabinet supports an Antenna on Existing
272						Struct	ture and the Existing Structure is a utility pole,
273						street	light pole, or site plan approved parking lot light
274						pole,	the equipment cabinet:
275						<u>(a)</u>	must not exceed a maximum volume of 12 cubic
276							feet; and
277						<u>(b)</u>	must be the same color or pattern as the pre-
278							existing structure, unless it is a stealth design
279							approved by the Department of Transportation.
280	*	*	*				
281				d.	Excep	ot <u>unde</u>	er Section 3.5.14.C.2.e, [for a small cell antenna that
282					satisf	ies Sec	tion 3.5.14.C.2.a.iv] when mounted on a rooftop or
283					struct	ure loc	cated outside of a right of way [on privately owned
284					land],	, the an	tenna must meet the following standards:
285					i.	An ar	ntenna is prohibited:
286						(a)	on any detached house, [or] duplex, or townhouse
287							building type or an accessory structure associated
288							with either building type; and
289						(b)	in any scenic setback indicated in a master plan.
290					ii.	An ar	ntenna and a related unmanned equipment building
291						or cal	pinet may be installed on a rooftop, if a building is a
292						minin	num height of:

293			(a)	[50] <u>35</u> feet in any Residential Detached, <u>Rural</u>	
294				Residential, or Planned Unit Development zone; or	
295			(b)	[30] 20 feet in any Residential Multi-Unit,	
296				Commercial/Residential, Employment, or	
297				Industrial zone.	
298	* * *				
299	e.	[Whe	en loca	ted at least 60 feet from a detached house or a	
300		duple	ex buil	ding type, a small cell antenna that satisfies Section	
301		3.5.1	4.C.2.a	a.iv may be installed on any existing structure, at a	
302		minimum height of 15 feet, in any zone where an antenna on an			
303		existing structure is allowed.]			
304		An antenna classified as Category A under Section 3.5.2.C.1.b,			
305		may be installed on any existing structure located in the right of			
306		way in any zone where an antenna on an existing structure is			
307		allowed, if:			
308		<u>i.</u>	the a	ntenna is the same color or pattern as of the existing	
309			struc	ture;	
310		<u>ii.</u>	the a	ntenna is installed at a minimum height of 15 feet;	
311			<u>and</u>		
312		<u>iii.</u>	the st	ructure is at least 20 feet from a dwelling in a Rural	
313			Resid	lential, Residential and Planned Unit Development	
314			zone,	and at least 10 feet from any structure in any	
315			Com	mercial/Residential, Employment, or Industrial	
316			zone.		
317	Sec. 4. Eff	ective	date.	This ordinance becomes effective 20 days after	
318	approval.				
319					

Zoning Text Amendment No.: 18-XX

320	This is a correct copy of Council action.	
321		
322		
323	Megan Davey Limarzi, Clerk of the Council	•