

REPORT TO CITY PLAN COMMISSION

Plan Commission Public Hearing Date: June 22, 2015

Common Council Meeting Date: July 1, 2015

Item: Special Use Permit #5-15 for a Wireless Telecommunication Tower

Case Manager: Jeff Towne

GENERAL INFORMATION

Owner/Applicant: MTW of Appleton, Inc., Owner - Mike Thiel, President

Peter Schau (representing Central States Tower III, LLC), Applicant

Address/Parcel #: 1610 West Wisconsin Avenue (31-5-9538-02)

Petitioner's Request: The applicant is requesting a Special Use Permit for the construction and operation of a new 100-foot tall (105-feet with lightning rod) monopole tower to host new Verizon Wireless panel antennas and equipment at the 85 foot centerline, ground equipment cabling through the center of the monopole connecting to a new 11'6" x 25' 5 ½" prefabricated equipment shelter near the base of the monopole within a 50' x 60' fenced compound all per plan.

STAFF ANALYSIS

Existing Site Conditions: The subject property is zoned C-2, General Commercial District. Per the City of Appleton Zoning Ordinance, wireless telecommunication towers require a Special Use Permit in the C-2 General Commercial District. The subject property is currently occupied by an auto sales lot, auto body and paint shop and towing business. An open area of the lot exists in the northern portion of the subject site.

Special Use Permit: The proposed wireless telecommunication facility is to be located in the northeastern portion of the site in an area approximately 3,000 square feet in size (See Attached Development Plan). The applicant is proposing to construct a 100-foot monopole wireless telecommunication tower and associated ground equipment. The proposed location of the tower and ground equipment meet the minimum setback standards in the C-2 District. The proposed tower and ground equipment will be enclosed within a chain-link fence enclosure.

Zoning Code Article XIII Sec. 23-424 (i)(1)(2) requires a 4-foot wide landscape buffer of plant materials around the wireless telecommunication facility. The applicant has included this buffer in their proposal. Residential properties are located approximately 70 feet north of the tower location separated from the proposed site by West Kamps Avenue.

The applicant is proposing a new telecommunication tower as opposed to co-locating on an existing tower or structure. The Zoning Code requires the applicant to demonstrate why co-location of their wireless telecommunication equipment was not chosen as an alternative to constructing a new tower. The applicant submitted a letter from Mustafa Siamof, RF Engineer for Verizon Wireless describing the reasons for constructing a new tower over co-locating on an existing tower or structure (See Attached Letter).

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State Statute Revision (2013): In 2013, the State of Wisconsin revised statutes regarding local requirements for mobile towers. Local governments can no longer regulate a number of aspects of tower construction, including but not limited to:

- Enact an ordinance prohibiting the placement of a mobile service support structure in particular locations within the political subdivision.
- Disapprove an application based solely on the height of the mobile service support structure or on whether the structure requires lighting.
- Prohibit the placement of emergency power systems.
- Limit the duration of any permit that is granted.
- Limit the height of a mobile service support structure to under 200 feet.

Surrounding Zoning and Land Uses:

North: Zoning: R-1B Single-Family Residential

Land Use(s): Single-family house

South: Zoning: C-2 General Commercial

Land Use(s): Contractor's office

West: Zoning: C-2 General Commercial

Land Use(s): Retail

East: Zoning: C-2 General Commercial

Land Use(s): Auto sales; Apartment building

2010-2030 Comprehensive Plan: The Community Development staff has reviewed the City's 2010-2030 Comprehensive Plan which indicates this area is appropriate for a wireless telecommunication tower and associated ground equipment. The proposed Special Use Permit for the subject parcel is consistent with the following goal of the 2010-2030 Comprehensive Plan:

Overall Community Goals

■ Goal 1 – Community Growth (Chapter 10 – Land Use)

Appleton will continue to provide opportunities for residential, commercial, and industrial growth, including appropriate redevelopment sites within the downtown and existing neighborhoods and greenfield development sites at the City's edge.

Finding of Fact: This request was reviewed in accordance with the standards for granting a Special Use Permit under 23-66 (e) (1-6) and Article XIII of the Zoning Code, which were found in the affirmative.

Technical Review Group Report (TRG): This item was discussed at the June 2, 2015 Technical Review Group meeting. No negative comments were received.

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RECOMMENDATION

Staff recommends, based on the above, that Special Use Permit #5-15 for a wireless telecommunication tower and associated ground equipment, **BE APPROVED**, subject to the following conditions:

- 1. A Site Plan Review application must be submitted and approved by the Community and Economic Development Department prior to building permits being issued for the construction of the proposed wireless telecommunication facility.
- 2. The approved security fencing with privacy slats and landscaping as described above must be maintained so as to fully screen the wireless telecommunication equipment and the base of the tower. The land owner is responsible for ensuring that screening is maintained.

PLAN OF OPERATION AND LOCATIONAL INFORMATION

Business Information:		
Name of business: N/A-UI	nmanned Mobile Service Support Stru	acture & Mobile Service Facility
Years in operation: N/A		
Type of proposed establishm	nent (detailed explanation of bu	siness):
Unmanned Mobile Service Sup	port Structure & Mobile Service Facil	ity
		:
Proposed Hours of Operat	ion: Equipment will operate 24/7/3	365
Day	From	То
Week Day		
Friday	,	
Saturday	,	
Sunday		
Building Capacity and Area	a:	
	s permitted to occupy the buildinal Building Code (IBC) or the : N/A persons	
Gross floor area of the existing	ng building(s):	
N/A		
Gross floor area of the propo	sed building(s):	
294 sf-Un	manned Equipment Shelter	
Identify location, number, cap tanks or containers:	pacity and flammable liquid ma	terials stored in storage
None.		2
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Describe any potential smoke, odors emanating from the proposed use and plans control them:	
Inmanned Mobile Service Support Structure & Mobile Service Facility will not produce any smoke of	or odors
±	
Describe Any Potential Noise Emanating From the Proposed Use:	
Describe the noise levels anticipated from all mechanical equipment:	
HVAC Equipment serving prefabricated equipment shetler-low level noise when operational.	
Backup NG/LP Power Generator-Avg 72 dba at 23' (full load). Runs intermittely when tested or in	the case
2	
How will the noise be controlled?	
HVAC Equipment-No Noise Controls necessary.	
Backup NG/LP Power Generator-Generator is equiped with Level 2 sound attenuating enclosure as a grade muffler.	nd critic
× .	
Outdoor Lighting:	
Type: _ Exterior wall mounted LED light fixture.	
Location: Adjacent to man door on prefabricated shelter.	
Off-Street Parking:	
Number of spaces existing: No Change	
Number of spaces proposed: No Change	
Is street access to the subject property adequate or are any street improvements, as a new turning lane, necessary to minimize impacts on traffic flow?	such
Existing street access from public way is adequate.	
,	

Outdoor Uses: Type, location, size of outdoor storage area(s) of business property, goods, or merchandise not intended for customer viewing or immediate sale: N/A Type and height of screening of plantings/fencing/gating for outdoor storage area(s): 6' tall perimeter chain link fence surrounded by landscape buffer of +/-6' tall arborvitae planted 10' on center per enclosed landscaping plan. Type, location, size of outdoor display area(s) of merchandise for sale: **Number of Employees:** Number of existing employees: N/A Number of proposed employees: N/A

Number of employees scheduled to work on the largest shift: N/A



Via: USPS Priority Mail

Mr. Michael Theil President MTW of Appleton, Inc. 5 Mulberry Court Appleton, WI 54913

March 3, 2015

Re: Central States Tower III, LLC-Proposed Wireless Communications Facility/MTW of Appleton, Inc. Property-1610 W. Wisconsin Avenue, Appleton, WI 54913.

Parcel ID: 315953802

Dear Mike,

Please acknowledge this letter below as evidence of your consent for Ton 80 Realty Services, Inc. to file any and all necessary zoning, building, erosion control, and any other governmental use or permit applications required with the applicable jurisdictions and agencies for the installation and operation of a wireless communications tower facility and equipment upon the above referenced property by Central States Tower III, LLC ("CST") as your tenant, and Verizon Wireless as CST's prospective subtenant, on your behalf as the fee owner of the property.

Thank you for all of your time and assistance in the matter.

Best regards,

Peter Schau

On behalf of Central States Tower III, LLC

and Verizon Wireless

Acknowledged this 30 day of

Michael-Their THIEL

President

MTW of Appleton, Inc.

f/k/a Sarge's A-1 Rentals, Inc.

tel: (773) 919-5112/ fax: (866) 684-3535

SWORN STATEMENT OF MUSTAFA SIAMOF IN SUPPORT OF NEW TOWER CONSTRUCTION PURSUANT TO WIS. STAT. §66.0404

OUTAGAMIE COUNTY)
) ss
STATE OF WISCONSIN)

MUSTAFA SIAMOF, being first duly sworn on oath, deposes and says that:

- 1. I am an adult resident of the State of Wisconsin and serve as RF Engineer at Verizon Wireless.
- 2. My job duties include responsibility over the placement of the mobile service support structure being proposed by Central States Tower III, LLC and Verizon Wireless Personal Communications LP ("Verizon Wireless") at the property commonly known as 1610 W. Wisconsin Avenue, Appleton, WI 54914, Parcel ID #: 315953802 (the "Verizon Wireless Proposal").
 - 3. This sworn statement is made pursuant to Wis. Stat. §66.0404(2)(b)6.
- 4. The Verizon Wireless Proposal is being submitted because collocation within Verizon Wireless' search ring for the area covered by the Verizon Wireless Proposal is infeasible, as no existing structures of any kind currently exist which could be utilized for such collocation.

Mustafa Siamof

Subscribed and sworn to before me this day of und la 2015

Notary Public, State of Wisconsin

My commission: ___/



April 27, 2015

Mr. Yuri Dobrowolsky Director of Construction Central States Tower 323 South Hale Street, Suite 100 Wheaton, IL 60187

RE: Proposed 100 ft Sabre Monopole for Wisconsin Ave, WI

4.01670-005

SIOUX CITY

WONAL ENGINE

Dear Mr. Dobrowlosky,

Upon receipt of order, we propose to design and supply the above referenced Sabre monopole for a Basic Wind Speed of 90 mph with no ice and 40 mph with 1/2" ice, Structure Class II, Exposure Category C, and Topographic Category 1, in accordance with the Telecommunications Industry Association Standard ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas".

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors, resulting in an overall minimum safety factor of 25%. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within one of the monopole shaft sections. This would result in a buckling failure mode, where the steel shaft would bend beyond its elastic limit (beyond the point where the shaft would return to its original shape upon removal of the wind load).

Therefore, the overall effect of an extreme wind event would be localized buckling of the monopole shaft. Assuming that the wind pressure profile is similar to that used to design the monopole, the shaft will buckle at the location of the highest combined stress ratio in the upper portion of the monopole. This would result in the portion of the monopole above "folding over" onto the portion below, essentially collapsing upon itself. *Please note that this letter only applies to a monopole designed and manufactured by Sabre Towers & Poles*. In the unlikely event of total separation, this would result in collapse of the section above, within a radius equal to 34 feet.

Sincerely,

Robert E. Beacom, P.E. Design Engineer II

TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

PASS SLOPE(100:1): NO FAA REQ-RWY MORE THAN 10499 MTRS & 6577.88 MTRS (6.57789 KM) AWAY

Туре	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	44-16- 7.00N	088-30- 46.00W		OUTAGAMIE APPLETON, WI	261.6	2439.0

PASS SLOPE(100:1): NO FAA REQ-RWY MORE THAN 10499 MTRS & 6551.67 MTRS (6.55170 KM) AWAY

Туре	C/R	Latitude	Longitude	Name	Address	Elevation (m)	Runway Length (m)
AIRP	R	44-15- 11.00N	088-30- 27.00W	OUTAGAMIE COUNTY RGNL	OUTAGAMIE APPLETON, WI	261.6	2439.0

Your Specifications

NAD83 Coordinates

Measurements (Meters)	
Longitude	088-25-50.5 west
Latitude	44-16-25.7 north

Overall Structure Height (AGL) 32 Support Structure Height (AGL) 30.5

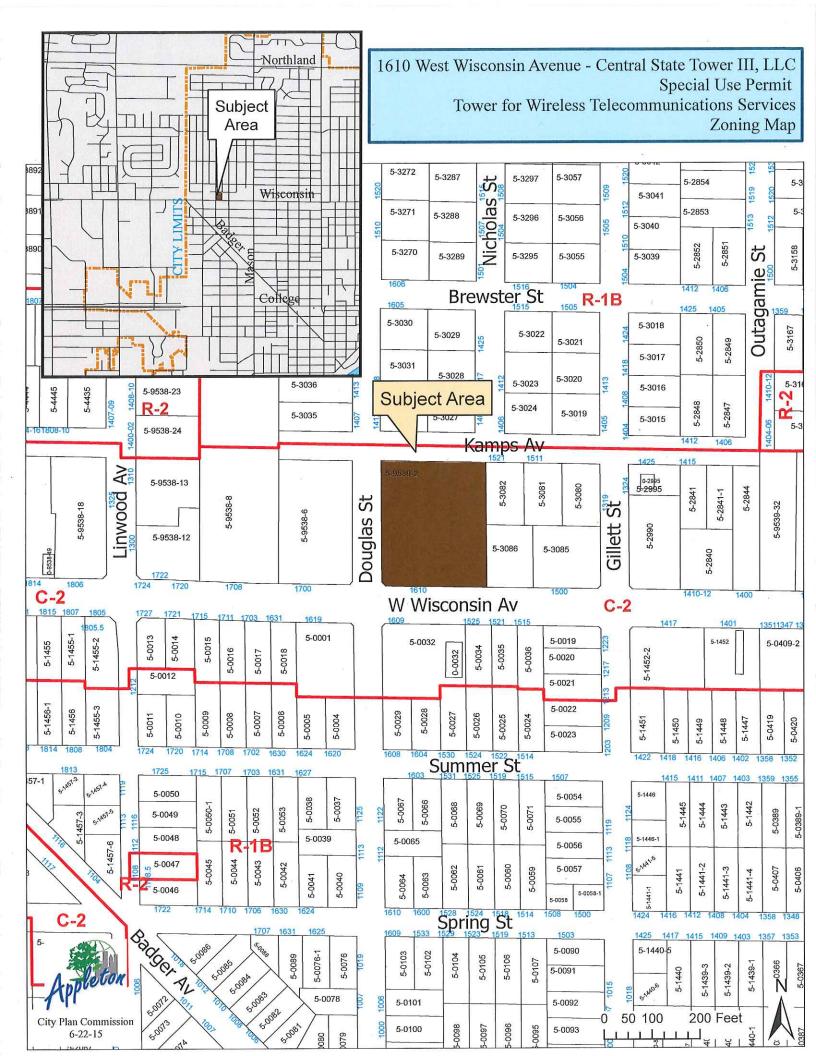
Site Elevation (AMSL) 249.8

Structure Type

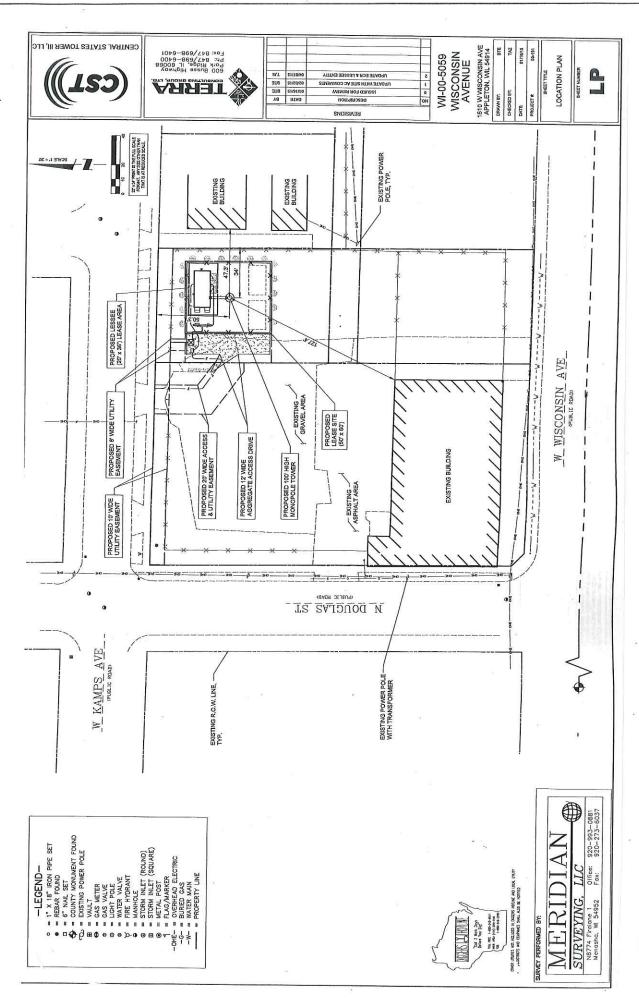
MTOWER - Monopole

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

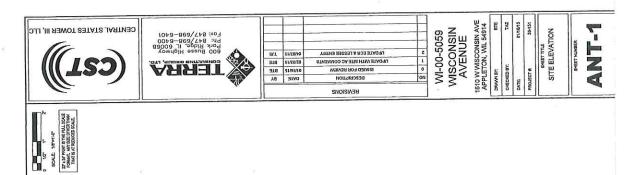


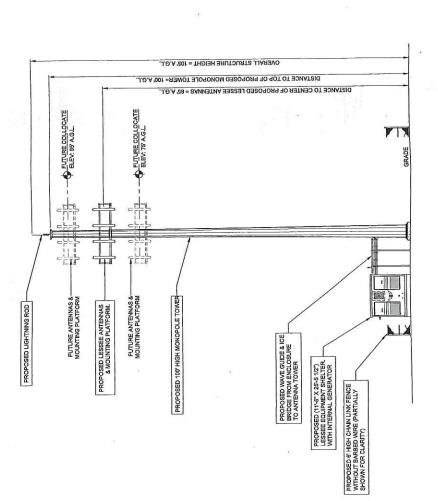




1610 West Wisconsin Avenue - Central State Tower III, LLC Special Use Permit Tower for Wireless Telecommunication Services







1610 West Wisconsin Avenue - Central State Tower III, LLC Special Use Permit Tower for Wireless Telecommunication Services

SCALE: 1/8" = 1-0"



GENERAL LANDSCAPE NOTES

FRUNE NEWLY INSTALLED SHRUBS, WORK SHALL BE DONE BY EXPERIENCED SHESONIELT 'DY THE ACCEPTED HOSTICULTURAL AND ARBORICULTURAL STANDARDS, PRUNING SHALL RESULT IN A LOOSE OUTLINE CONFORMING TO THE GENERAL SHAPE OF THE SHRUB TYPE. DO NOT USE HEDGE SHEARS,

ALL PLANTING STOCK SHALL BE NURSERY-GROWN IN ACCORDANCE WITH GOOD PRICE LINEAR SHALL BE REEE OF DISEASE, INBECTS BEGGES, LANKER AND EFFECTS SUCH AS NOTS, SUN-SCALD, INJURIES, SARSANONS OF DESIGHERMENT. THEY SHALL HAVE SOUN, HEALTHY VIGOROUS AND INJURIORA GROWTH TYPICAL, OF THE SPECIES AND MAIRETY, WELL-FORMED, FREE FROM RREGULARITIES, WITH THE MAINING OF DATE OF THE SPECIES AND MAINETH WAS COLVE, AND THE SAME OF THE SPECIES AND MAINETH WAS CHARLY AND SIZE CONFORMING TO AMERICAN STANDARD FOR NURSERY STOCK.

GUARENTEE: WARRANT ALL PLANT MATERIAL TO BE TRUE TO BOTANICAL
MARE AND SEPCHEE SIZE. AFTER COMPLETION OF PANTING. ALL PLANT
MATERIALS SHALL BE WARRANTED AGAINST DEFECTS, INCLUDING DEATH AND
UNSATIPS-ACTORY GROWNING. PROR A WARRANTY PERIOD. OF ONE YEAS. THE
CONTRACTORY WILL NOT BE RESPONSIBLE FOR DEFECTS RESULTING FROM NEGLECT
ABUSE, DAMAGE BY OTHERS. OR UNUSLALD. PHENOMERA OR INCIDENTS BEYOND THE
CONTRACTORS CONTROL, WHICH RESULT FROM NATURAL CAUSES SUCH AS FLOODS
STORMS, FIRES OR VANDALISM.
REPLACEMENTS DISTRICT, IN MATERIAL STAT ARE DEAD, OR IN THE
ORNOWO OF THE LANDSCAPE ARCHITECT, IN AN UNHEALTHY OR LANSIGHTY
ORNOMOWO FIRE LANDSCAPE ARCHITECT, IN AN UNHEALTHY OR LANSIGHTY
ORNOMOWO FIRE LECTED PRAYT MATERIALS SHALL BE REMOKED FROM THE SITE
AT CONTRACTORS EXPENSE. REPLACEMENTS ARE TO BE MAGE NO LATER
THAN THE SISSEQUENT PLANTING SEASON. RESTORE AREAS DISTURBED BY
PERM A CAPILARY DEFENT.

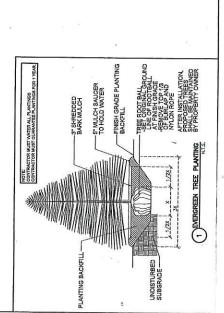
MULCHING SYALL BE DONE WITHIN 48 HOURS AFTER PLANTING. MULCH SHRUB BEDS TO A UNIFORM DEFTH OF THREE INCHES, MULCH SHALL BE CLEAN COMPOSTED PINE BARK MULCH FREE OF FOREIGN MATERIAL AND LANGE PICES OVER THREE INCHES LONG. DO NOT MULCH TREE AND SHRUB PLANTING PITS.

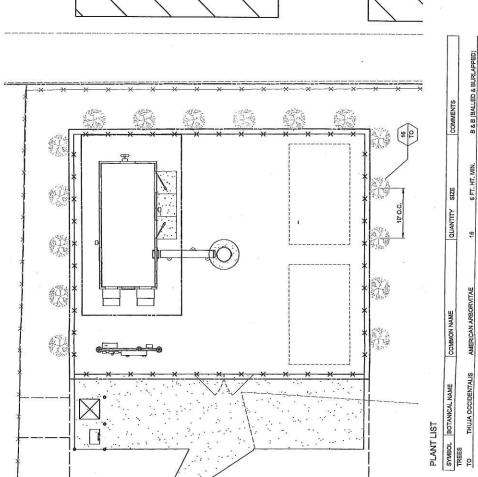
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SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
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WISCONSIN

AVENUE

WI-00-5059

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1610 W WISCONSIN AY APPLETON, WIL 5491

(IF NOT ARBORVITAE (MOST COMMON)) REFER TO "DIRR'S HARDY" LANDSCAPE BOOK AND/OR INTERNET SEARCH ENGINE FOR SYMBOL, BOTANICAL/COMMON NAME, <u>REMOVE THIS NOTE WHEN DONE.</u>

LANDSCAPE PLAN



1610 West Wisconsin Avenue - Central State Tower III, LLC Tower for Wireless Telecommunication Services Special Use Permit

