

## ZONING COMMITTEE STAFF REPORT

**FILE NAME:** Verizon Wireless

**FILE #** 17-006-742

**APPLICANT:** Verizon Wireless

**HEARING DATE:** February 16, 2017

**TYPE OF APPLICATION:** Conditional Use Permit

**LOCATION:** 425 7th St W, NE corner at Douglas

**PIN & LEGAL DESCRIPTION:** 012823410141, Samuel Leeches Addition Subj To Esmts & Vac St Accruing The Fol; Lot 5 Of C L Lains Re & In Sd Samuel Leeches Addition; Ex N 90 Ft Of Lot 8 & Ex N 90 Ft Of W 3 Ft Of Lot 9; Lots 8 9 & 10 Blk 4 & Part Nw Of W 7th St Of Lots 6 & Lot 7 Blk 9

**PLANNING DISTRICT:** 9

**PRESENT ZONING:** B2

**ZONING CODE REFERENCE:** §65.310; §61.501; §66.431

**STAFF REPORT DATE:** February 9, 2017

**BY:** Bill Dermody

**DATE RECEIVED:** January 26, 2017

**60-DAY DEADLINE FOR ACTION:** March 27, 2017

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A. **PURPOSE:** Conditional use permit for a new 31' high light pole with cellular telephone antennas.

B. **PARCEL SIZE:** 39,639 square feet

C. **EXISTING LAND USE:** Restaurant

D. **SURROUNDING LAND USE:**

Mix of commercial, institutional, and multi-family residential to the northeast and southwest along 7<sup>th</sup> Street West; mix of single-family and multi-family residential uses to the west and northwest.

E. **ZONING CODE CITATION:** §65.310 provides a definition and standards/conditions for cellular telephone antennas; §61.501 lists general conditions that must be met by all conditional uses; §66.431 provides dimensional standards for the B2 community business district.

F. **HISTORY/DISCUSSION:** There is no recent zoning history for the site.

G. **DISTRICT COUNCIL RECOMMENDATION:** As of this writing, the District 9 Council has not provided a recommendation.

H. **FINDINGS:**

1. The application requests conditional use permit approval to allow installation of a new 31' high light pole with cellular telephone antennas and associated equipment, including remote radio units (RRUs). The antennas are of a small cell canister design.
2. The proposed light pole would be placed in the parking lot of a restaurant at 425 7<sup>th</sup> Street West that is zoned B2.
3. §65.310 lists nine standards and conditions that apply to cellular telephone antennas, including the following that apply to the subject application:
  - a. *In residential, traditional neighborhood and business districts, a conditional use permit is required for cellular telephone antennas on a building less than 45 feet high or on a freestanding pole, except for existing utility poles. In residential and traditional neighborhood districts, existing utility poles to which cellular telephone antennas are attached shall be at least 60 feet high. Conditional use permit review for such antennas will take into account not only the request made by the application, but also any future eligible facility modifications allowed under 47 CFR §1.4.0001, such as antennas of a more obtrusive design or placement than the subject application. A conditional use permit is not required for any eligible facility modification allowed under 47 CFR §1.4.0001. This condition is met by the subject application and analysis included in the other findings. 47 CFR §1.4001 essentially allows any structure that supports cellular telephone antennas to be modified (regardless of zoning regulations) to accommodate additional future antennas and associated equipment so long as it does not constitute a "substantial change" in the structure's physical dimensions, and that it complies with conditions of the original antennas' siting approval. The regulation defines a "substantial change" as (applied to this case) a height increase of 20 feet plus the height of one additional antenna array, or a protrusion from the tower of more than 20 feet.*

- c. *For antennas proposed to be located on a building less than 45 feet high in residential, traditional neighborhood, and business districts, or on a new freestanding pole in residential, traditional neighborhood, and business districts, the applicant shall demonstrate that the proposed antennas cannot be accommodated on an existing freestanding pole or an existing structure at least 45 feet high within ½ mile radius of the proposed antennas due to one or more of the following reasons:*
  - i. *The planned equipment would exceed the structural capacity of the existing pole or structure.*
  - ii. *The planned equipment would cause interference with other existing or planned equipment on the pole or structure.*
  - iii. *The planned equipment cannot be accommodated at a height necessary to function reasonably.*
  - iv. *The owner of the existing pole, structure or building is unwilling to co-locate an antenna.*

This condition is met. An application supplement states that the antennas need to be as close to the street as possible and that placement on structures taller than 45 feet would not allow the small cell technology to function reasonably.
- d. *In residential, traditional neighborhood and business districts, cellular telephone antennas to be located on a new freestanding pole are subject to the following standards and conditions:*
  1. *The freestanding pole shall not exceed 75 feet in height, unless the applicant demonstrates that the surrounding topography, structures, or vegetation renders a 75-foot pole impractical. Freestanding poles may exceed the above height limit by 25 feet if the pole is designed to carry two (2) antennas. This condition is met. The requested 31' high pole plus future additions allowed by 47 CFR §1.4.0001 would equal 51' plus antenna height.*
  2. *Antennas shall not be located in a required front or side yard and shall be set back one (1) times the height of the antenna plus 38 feet from the nearest residential building. This condition can be met. The minimum front and side yard setbacks in the B2 district are 0'. The nearest residential building is approximately 118' to the north, as compared to a height of 51' plus antenna height for the proposal plus future additions allowed by 47 CFR §1.4.0001.*
  3. *The antennas shall be designed where possible to blend into the surrounding environment through concealment elements such as the use of color and camouflaging architectural treatment. Drawings or photographic perspectives showing the pole and antennas shall be provided to the planning commission to determine compliance with this provision. This condition can be met so long as future additions are required to have a small cell canister design such as proposed by the subject application.*
  4. *In residential and traditional neighborhood districts, the pole shall be on institutional use property at least one (1) acre in area. In the business districts, the zoning lot on which the pole is located shall be within contiguous property with OS or less restrictive zoning at least one (1) acre in area. This condition is met. The subject site's zoning lot is contiguous with property to the southwest that is also zoned B2 and constitutes well over one (1) acre in area.*
4. §61.501 lists five standards that all conditional uses must satisfy:
  - (a) *The extent, location and intensity of the use will be in substantial compliance with the Saint Paul Comprehensive Plan and any applicable subarea plans which were approved by the city council. This condition is met. There are no plan policies specific to this application.*
  - (b) *The use will provide adequate ingress and egress to minimize traffic congestion in the public streets. This condition is met. The use produces very minimal traffic in the form of an occasional service truck that can be accommodated by existing ingress and egress.*

- (c) *The use will not be detrimental to the existing character of the development in the immediate neighborhood or endanger the public health, safety and general welfare.* This condition can be met if the design of the antennas (including any future additions) is small cell canister such as proposed.
- (d) *The use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.* This condition is met. The proposed pole will not impede the development and improvement of surrounding property.
- (e) *The use shall, in all other respects, conform to the applicable regulations of the district in which it is located.* This condition is met. The proposal will conform to all other B2 regulations, as will be confirmed through building permit review and any site plan review.

- I. **STAFF RECOMMENDATION:** Based on the above findings, staff recommends approval of the conditional use permit for a new 31' high light pole with cellular telephone antennas subject to the following additional condition(s):
  - 1. Final plans approved by the Zoning Administrator for this use shall be in substantial compliance with the plan submitted and approved as part of this application.
  - 2. Antennas shall be of a small cell canister design similar to that presented in the application materials.

Attachments:

- 1. Application materials
- 2. 47 CFR §1.4001
- 3. Streetview photos
- 4. Maps



**CONDITIONAL USE PERMIT APPLICATION**

Department of Planning and Economic Development  
Zoning Section  
1400 City Hall Annex  
25 West Fourth Street  
Saint Paul, MN 55102-1634  
(651) 266-6589

Zoning office use only  
File # 17-006742  
Fee 800.00  
Tentative Hearing Date 2-16-17

#D=9  
# 012823410141

**APPLICANT**

Name Verizon Wireless  
Address 10801 Bush Lake Rd  
City Bloomington St. MN Zip 55438 Daytime Phone 952-288-8130  
Name of Owner (if different) Jason M. Tschida  
Contact Person (if different) Karyn O'Brien Phone 952-288-8130

**PROPERTY LOCATION**

Address / Location 425 7th Street West, St. Paul, MN 55102  
Legal Description Please see attached sheet  
Current Zoning T-1 B2  
(attach additional sheet if necessary)

**TYPE OF PERMIT:** Application is hereby made for a Conditional Use Permit under provisions of Chapter 65, Section 310, Paragraph a-i of the Zoning Code.

**SUPPORTING INFORMATION:** Explain how the use will meet all of the applicable standards and conditions. If you are requesting modification of any special conditions or standards for a conditional use, explain why the modification is needed and how it meets the requirements for modification of special conditions in Section 61.502 of the Zoning Code. Attach additional sheets if necessary.  
Verizon Wireless is proposing to install (1) 31-ft steel light pole and associated concrete foundation. The steel light pole would also hold a small-cell can antenna. The light pole would service the parking lot at 425 7th St. W. The proposal meets the requirements of Sec. 65.310 of the municipal code ordinances pertaining to antennas, and it is designed to blend in with the surrounding environment, per Sec. 65.310(c)(3).

**RECEIVED**  
JAN 20 2017  
By: City of St Paul DSI

Required site plan is attached

Applicant's Signature [Signature] Date 1/6/2017 City Agent \_\_\_\_\_

JAN 20 2017  
Add  
1-20-17

## Application Supplement

RE: 65.310 (c)

Regarding the code provision, the reason small cell antennas cannot be accommodated on an existing freestanding pole or building within 1/2 mile and at least 45' in height is that the nature of small cells is to provide a much lower, street-level coverage and capacity to pedestrians and traffic. Anything higher or lower than the proposed heights would preclude Verizon from meeting the intended objective using this newer technology. The antennas are smaller and the radius/reach is much less than the larger-scale antennas for which most telecommunications codes were written. The radius for these antennas is only around 500', which is why we cannot affix to taller structures. They also need to be as close to the street as possible to alleviate the network bottlenecks that are caused by influx of traffic and pedestrians, especially during peak times. Therefore, the planned equipment cannot be accommodated at a height necessary to function reasonably.



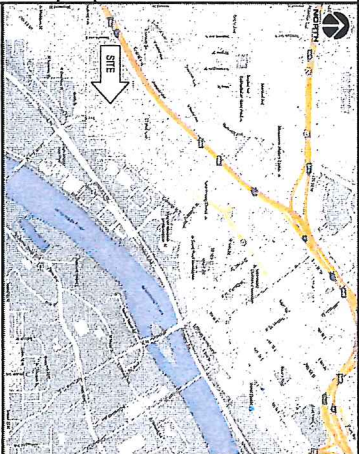
**SITE NAME:** MIN SCALLOP STPL SC  
**SITE NUMBER:** 20161452750  
**LOCATION CODE:** 424700  
**SITE TYPE:** SMALL CELL  
**POLE TYPE:** PROPOSED 25' LIGHT POLE

**SITE INFORMATION**

**APPROXIMATE ADDRESS:**  
 423 7TH ST W  
 ST PAUL MN 55102  
 RAMSEY COUNTY

**LATITUDE & LONGITUDE:**  
 LAT: 44-58-20.347N  
 LONG: 93-08-58.937W  
 (PER I.A. CERTIFIED)  
 (PER I.A. CERTIFIED)  
 POLE HEIGHT:  
 25'-0" T.O.C.  
 MAXIMUM APPEARANCE HEIGHT:  
 31'-0" A.S.L.

**AREA MAP**



**APPLICABLE CODES**

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES  
 -2012 INTERNATIONAL BUILDING CODE  
 - IAW/ENR222G OF LATEST EDITION  
 IN THE EVENT OF CONFLICT THE MOST RESTRICTIVE CODE SHALL PREVAIL

**LOCATION SCAN**



**PROJECT DESCRIPTION/SOW**

- INSTALL (1) PROPOSED 25-FT STEEL LIGHT POLE AND ASSOCIATED CONCRETE FOUNDATION
- INSTALLATION OF CAN ANTENNA
- INSTALLATION OF ERICSSON RIBS AND POWER CONVERTERS
- INSTALLATION OF LOAD CENTER/BREAKER BOX
- INSTALLATION OF (4) CONCRETE PILLARS
- INSTALLATION OF HAND HOLE FOR FIBER IN ROW, BY FIBER PROVIDER
- INSTALLATION OF CONDUIT FOR FIBER BETWEEN HAND HOLE AND POLE BASE (APPROX. 55'-0") TO BE DIRECTIONALLY BORED UNDER GRADE BY VERIZON
- INSTALLATION OF CONDUIT FOR FIBER IN ROW
- INSTALLATION OF CONDUIT FOR ELECTRIC BETWEEN POLE BASE AND EXISTING FEDERAL (APPROX. 59'-0") TO BE DIRECTIONALLY BORED UNDER GRADE BY VERIZON
- INSTALLATION OF GROUND RINGS AROUND POLE FOUNDATION
- ALL OTHER CONSTRUCTION RELATED ACTIVITIES TO BE COMPLETED BY OTHERS

**PROJECT DIRECTORY**

**LESSOR:**  
 VERIZON WIRELESS  
 10901 BURR LAKE RD  
 WASHINGTON FIELD  
 CONTOUR COLLEMBER BENDWAY  
 PHONE: 952/946-4904

**LESSOR:**  
 JASON M. TSCHIDA  
 2480 PROSPECT COURT  
 ST. PAUL, MN 55108  
 PHONE: 651/291-7106 EXT. 0

**ENGINEERING COMPANY:**  
 EDGE CONSULTING ENGINEERS, INC.  
 100 W. WYOMING ST.  
 LAKESVILLE, MN 55554  
 PHONE: 952/441-1449

**RE ENGINEER:**  
 VERIZON WIRELESS  
 10901 BURR LAKE RD  
 WASHINGTON FIELD  
 CONTOUR COLLEMBER BENDWAY  
 PHONE: 952/946-4904

**SITE ACQUISITION:**  
 KGI  
 855 AS CINDAS PKWY  
 BUILDING THREE, SUITE 310  
 CONTACT: KAYAN O'BRIEN  
 PHONE: 952/288-8130

**SHEET INDEX**

NO:	SHEET TITLE
T1	TITLE SHEET & PROJECT DATA
A1	POLE ELEVATION
A2	FOUNDATION
A3	ANTENNA DETAILS
A4	EQUIPMENT DETAILS
A5	CONCRETE PILLARS
E1	CONDUIT DETAILS
E2	ELECTRICAL NOTES
E3	GROUNDING PLAN
E4	GROUNDING DETAILS

**11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED**

THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE THE SITE IS LOCATED. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE IMMEDIATELY UPON BEGINNING WORK OR BE RESPONSIBLE FOR THE SAME.

**ENGINEER OF RECORD**  
 EDGE CONSULTING ENGINEERS, INC.  
 CONTACT: OTTO DINGELDER III (PE # 49720 (MN))  
 PHONE: 952/441-1449

**STRUCTURAL REVIEW**  
 LIGHT POLE STRUCTURAL ANALYSIS COMPLETED BY EDGE CONSULTING ENGINEERS, INC.  
 DATE: 09/19/2016

CONTRACTOR TO REVIEW STRUCTURAL REPORT IN HIS ENTIRETY AND THESE PLANS SHOULD BE REVISED PRIOR TO CONSTRUCTION.



**Edge**  
 Consulting Engineers, Inc.  
 100 W. WYOMING ST.  
 LAKESVILLE, MN 55554  
 PHONE: 952/441-1449  
 WWW.EDGECONSULTING.COM

PROJECT NO.: 20161452750  
 EDGE PROJECT NO.: 14880  
 DRAWN BY: TGB  
 CHECKED BY: OGD

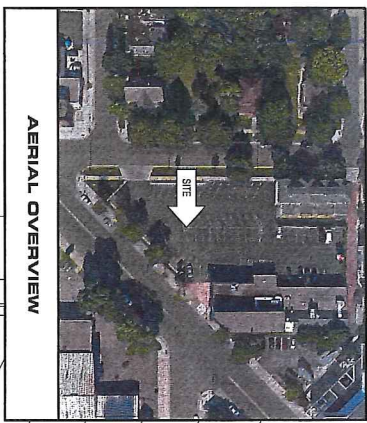
REV.	DATE	DESCRIPTION
A	10/17/2016	PRELIM SMALL CELL DIMENSIONING
B	09/23/2016	PRELIM SMALL CELL DIMENSIONING
C	09/23/2016	PRELIM SMALL CELL DIMENSIONING
D	10/22/2016	FINAL DIMENSIONS
E	10/27/2017	FINAL DIMENSIONS



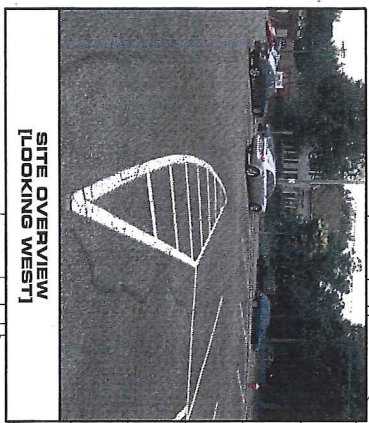
MAN SCALLOP STPL SC  
 ST PAUL, MN  
 PROPOSED LIGHT POLE  
 SMALL CELL DIMENSIONS

**TITLE SHEET & PROJECT DATA**

SHEET NUMBER  
**T-1**



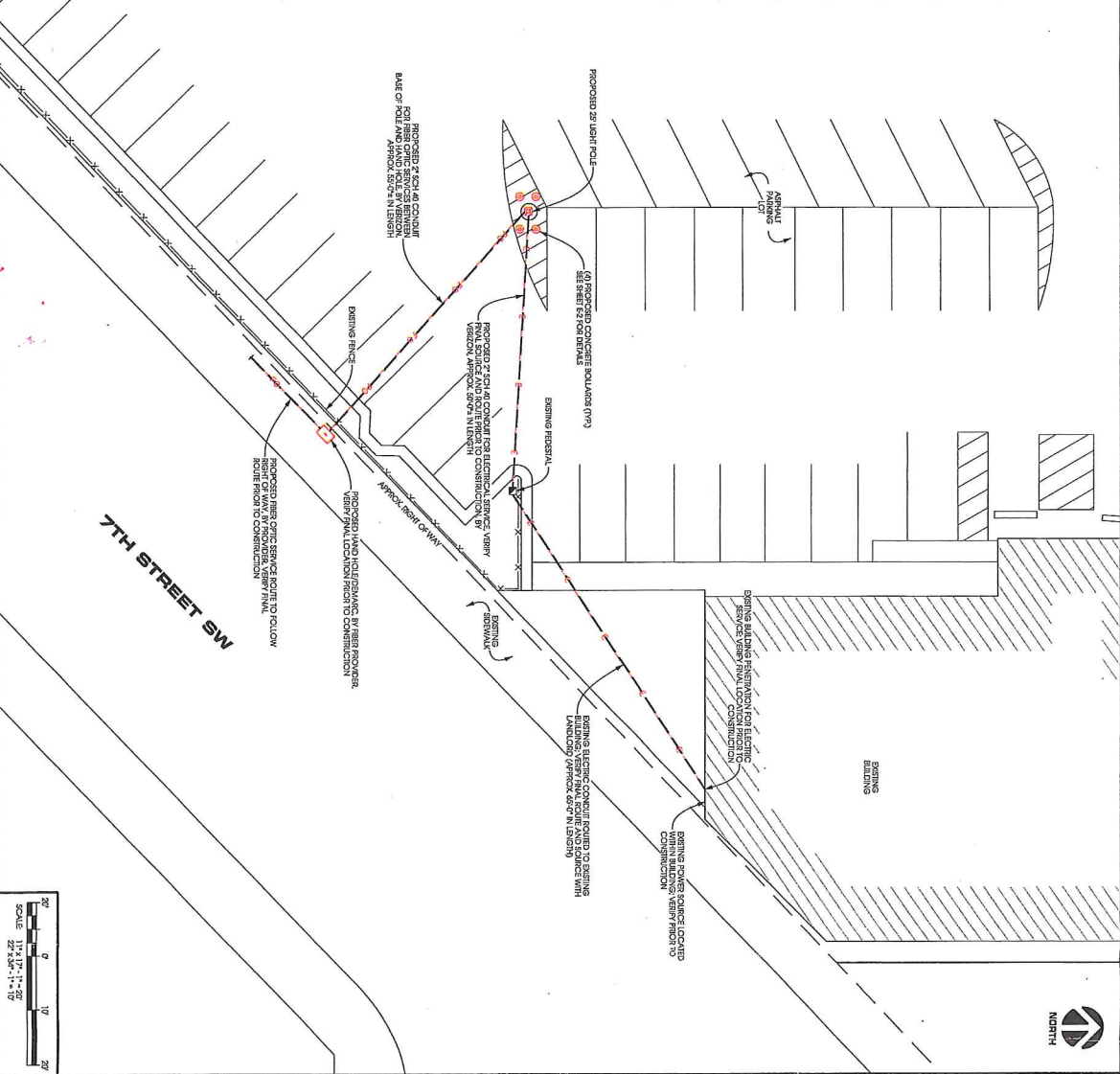
**AERIAL OVERVIEW**



**SITE OVERVIEW  
[LOOKING WEST]**



**SITE OVERVIEW  
[LOOKING SOUTHWEST]**



**Edge**  
Consulting Engineers, Inc.  
17464 Sunrise Park, Suite 115  
Overland Park, KS 66207  
www.edgeinc.com

PROJECT NO: 20161482750  
EDGE PROJECT NO: 14820  
DRAWN BY: TIG  
CHECKED BY: OGD

REV.	DATE	DESCRIPTION
A	04/18/2016	PRELIM SMALL CELL DWSH N/A
B	06/22/2016	PRELIM SMALL CELL DWSH N/A
C	10/22/2016	FINAL DRAWINGS N/A
D	09/29/2017	FINAL DRAWINGS N/A

**APPROVED**

MIN SCALOP SITE, SC  
ST. PAUL, MN  
PROPOSED LIGHT POLE  
SMALL CELL DRAWINGS

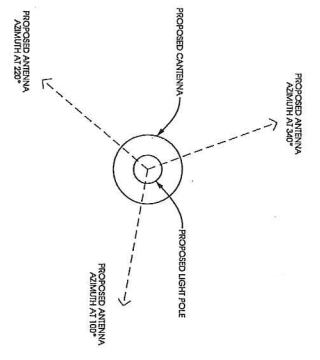
SHEET TITLE  
**SITE SKETCH**

SHEET NUMBER  
**C-1**

MODEL NO.	UNIT	HEIGHT	POSITION	TYPE	ANTENNA	PORT	CL. ADJ. ELECT. HEIGHT	HEIGHT
MIN SCALLOP TRP SC	AW5	80A21	1.1	1	Combridge	CT-CA-2-C	45	0
Combridge 80A			1.2				30	0
Combridge 80B			1.4				0	0

UNIT	TYPE	UNIT	TYPE	UNIT	TYPE
1	Lighter	Combridge	80A20	Radio	80A
1	Lighter	Combridge	80B20	Radio	80B
1	Lighter	Combridge	80C20	Radio	80C

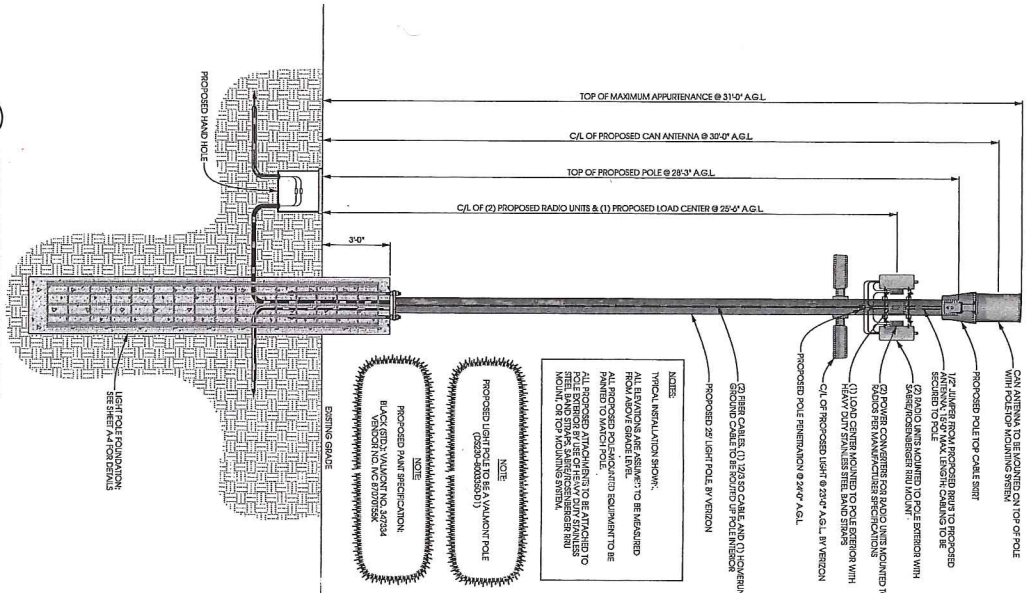
**A** ANTENNA AND COAX  
SCALE N15



**B** ANTENNA ORIENTATION  
SCALE N15



PROPOSED LIGHT POLE LOCATION



**NOTES:**  
TYPICAL INSTALLATION SHOWN.  
ALL ELEVATIONS ARE AS SHOWN TO BE MEASURED FROM ABOVE GRADE LEVEL.  
ALL ANTENNAS AND EQUIPMENT TO BE MOUNTED ON THE LIGHT POLE.  
ALL PROPOSED ATTACHMENTS TO BE ATTACHED TO POLE BY THE USE OF HEAVY DUTY STAINLESS STEEL BRACKETS AND MOUNT ON TOP MOUNTING SYSTEM.

**NOTE:**  
PROPOSED LIGHT POLE (32'-0\"/>

**NOTE:**  
PROPOSED POLE FOUNDATION (SEE SHEET A-1 FOR DETAILS)

**C** LIGHT POLE ELEVATION  
SCALE 1/4\"/>

**APPROVED**

HIGHEST CERTIFY THAT THIS FINAL SPECIFICATION, DIRECT REVISIONS AND ANY PVA ONLY CHANGES HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER OF RECORD FOR THE STATE OF MICHIGAN.

MIN SCALLOP TRP SC  
ST. PAUL, MI  
PROPOSED LIGHT POLE  
SMALL CELL DRAWINGS

SHEET TITLE  
**POLE ELEVATION**  
SHEET NUMBER  
**A-1**

**Edge**  
Consulting Engineers, Inc.  
15000 Corporate Ave. Suite 105  
Livonia, MI 48150  
734.421.1990 ext 200  
www.edgeconsulting.com

**KGI**  
888 East Grand Parkway, Building Three, Suite 370  
Livonia, MI 48150  
www.kgi.com

**verizon**

PROJECT NO:	20161482725
EDGE PROJECT NO:	14840
DRAWN BY:	TJB
CHECKED BY:	CSZ

REV.	DATE	DESCRIPTION	CDL	DRG/CHK
0	07/12/2016	FINAL DRAWINGS	MAV	
1	07/29/2017	FINAL DRAWINGS	MB	





Antenna Systems Group

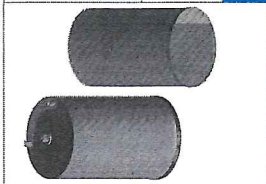


**Preliminary**

**CYL-QAP-2**

Small Cell Antenna, Quad 1695-2130MHz, 2FT

- X-Pol Small Cell
- Suitable for Pole or Building mount
- Broadband Radiators (AW5-3)
- Internal Beam Combining
- Integrated Global Position System (GPS) option



**ELECTRICAL SPECIFICATIONS**

Frequency Band, MHz	2x 1695-2130
Polarization	+/45°
Electrical Down Tilt	0°
VSWR/Return Loss, dB, Maximum (Non-Duplicated)	1.5:1/14.0
Isolation Between Ports, dB, Minimum	28
Intermodulation (2x20W), IM3, dBc, Maximum	-153
Impedance, ohms	50
Maximum Power Per Connector, CW (W)	125

**MECHANICAL SPECIFICATIONS**

Dimensions, Height/Diameter	24.2/15.1 in (615/384 mm)
Antenna RF Connector Type	7/16 DIN Female
Antenna RF Connector Torque	DIN 220-285 lb-ft-in (23-30 N-m)
GPS Connector Type	Mini-DIN Female (4 + 9.5 per IEC 61168-4)
GPS Connector Torque	Mini-DIN 88.5 lb-ft-in (10 Nm)
Connector Location	Bottom
Radiome Material	PVC
Wind Survival	150 mph (241 km/h)
Front Wind Load	45.9 lb-ft (204.18N) @ 100mph
Equilibration Flat Plate	0.91 sq-ft (e=2) @ 100mph

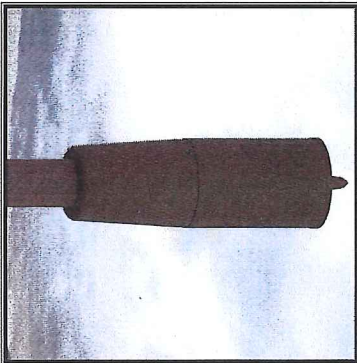
All Specifications are subject to change.  
Refer to [www.jmawireless.com](http://www.jmawireless.com) for the most current information.  
22052315  
Cyl-QAP-2\_11

www.jmawireless.com  
+1 315-431-1100 | [customerservice@jmawireless.com](mailto:customerservice@jmawireless.com)

**A ANTENNA SPECIFICATIONS**

SCALE: NTS

**CONCEAL FAB® UNIVERSAL POLE-TOP MOUNTING SYSTEM**  
Configurable for all Major Quasi-Omni Antennas

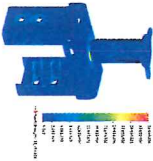


**O-DAS and Small Cell Solutions**  
Universal Pole-Top Mounting System  
Configurable for Quasi-Omni Antennas

Configurable, proven wireless concealment solutions are ideal complements to all infrastructure upgrades or retrofit projects. Integrates any antenna and radio configuration, effortlessly blends into urban/suburban environments, and able to withstand severe weather conditions. This vendor agnostic, Universal Pole-Top Mounting System accommodates a variety of Quasi-Omni shapes, sizes, weights, and pole-top diameters providing flexibility by adapting to future hardware needs.

**General Features:**

- ◊ Multiple Color Options
- ◊ Strategically placed for extreme exposure zones
- ◊ 360° Radial Adjustment
- ◊ Optional Cable Channel of pole diameters
- ◊ Adapters available for all major antenna brands
- ◊ Built-in level indicator
- ◊ PUV reduction coating

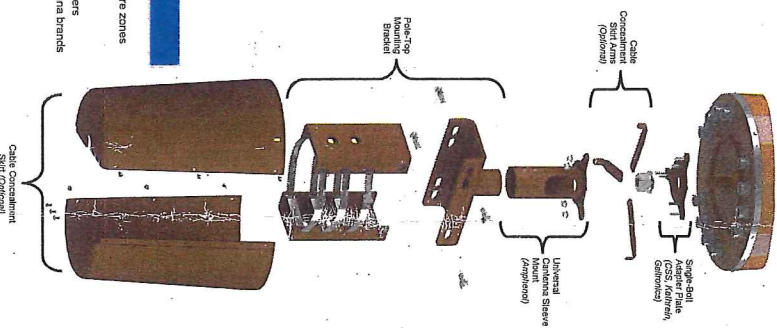


WWW.CONCEALFAB.COM PH: 719.599.3400 SALES@CONCEALFAB.COM

Colors and specifications are subject to change without notice.

**B ANTENNA MOUNTING DETAIL**

SCALE: NTS



855 East Center Parkway, Aurora, CO 80017  
612.326.6556 ext. 600  
[www.kgi.com](http://www.kgi.com)



11666 Jupiter Point, Suite 105  
Coral Gables, FL 33134  
305.444.1587 ext.  
[www.edgeconsulting.com](http://www.edgeconsulting.com)

PROJECT NO.	20161452753
EDGE PROJECT NO.	14863
DRAWN BY:	TRB
CHECKED BY:	CGD

REV.	DATE	DESCRIPTION
A	01/19/2016	PRELIM SMALL CELL DRAWING
B	02/02/2016	PRELIM SMALL CELL DRAWING
D	07/22/2016	FINAL DRAWINGS
E	07/29/2017	FINAL DRAWINGS

APPROVED

MINI SCALOP STRIP SC  
ST. PAUL, MN  
PROCESSED LIGHT POLE  
SMALL CELL DRAWINGS

SHEET TITLE  
ANTENNA DETAILS

SHEET NUMBER  
A-3

EDGE CONSULTING ENGINEERS, INC.





**Edge**  
Consulting Engineers, Inc.  
1766 S. Airport Blvd., Suite 105  
Austin, TX 78740  
512.441.4200  
www.edgeconsulting.com

PROJECT NO.: 20161452750  
EDGE PROJECT NO.: 14663  
DRAWN BY: NBS  
CHECKED BY: CGD

REV.	DATE	DESCRIPTION
A	09/29/2016	PROVIDE SMALL CELL DRAWING
B	09/29/2016	PROVIDE SMALL CELL DRAWING
C	10/07/2016	FINAL DRAWINGS
D	10/07/2016	FINAL DRAWINGS
E	10/07/2016	FINAL DRAWINGS

APPROVED

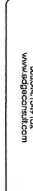
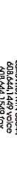
THIS SET CONTAINS THE FINAL SPECIFICATION, CONTRACT AGREEMENT, AND PERMITS FOR THE LICENSED PROFESSIONAL ENGINEER'S DESIGN AND THE LICENSED PROFESSIONAL ENGINEER'S DRAWINGS.

MIN SCALLOP STPL SC  
ST PAUL MN  
PROPOSED LIGHT POLE  
SMALL CELL DRAWINGS

SHEET TITLE  
CABLE MOUNTING  
DETAILS

SHEET NUMBER  
A-5

**Product Specifications**



1401C  
Bottle extension hanger for 1/2 in. steel cable

**Dimensions**

Overall Size: 127 mm | 5.00 in.  
Cable-to-cable separation: 124 mm | 4.88 in.  
Height: 94.0 mm | 3.70 in.  
Width: 49.0 mm | 1.93 in.

**Regulatory Specifications**

ASTM A307  
ASTM A307  
ASTM A307

**General Specifications**

Material Type: Steel  
Color per Manufacturer  
Minimum Steel Height: 94 mm  
Minimum Cable Weight: 0.149 kg  
Finish: Galvanized Steel

**Mechanical Specifications**

Operating Temperature: -40°C to 105°C (-40°F to 141°F)  
UV Radiation: Minimum with an 8-year life  
Tensile Strength: 1100 lbs force in accordance with the manufacturer's recommendations  
Double cable weight

**Packaged Dimensions**

Height: 17.0 mm | 0.67 in.  
Width: 17.0 mm | 0.67 in.  
Depth: 6.35 mm | 0.25 in.  
Net Wt: 1.21 lb

**Regulatory Compliance/Certifications**

Agency: FCC Part 15.247  
Class of EMI: Class B  
Country: United States of America  
Certification: FCC Part 15.247 Class B

**Product Specifications**



TS345  
Three-way steel adapter for 4.5 in. round members

**Dimensions**

Overall Size: 127 mm | 5.00 in.  
Cable-to-cable separation: 124 mm | 4.88 in.  
Height: 94.0 mm | 3.70 in.  
Width: 49.0 mm | 1.93 in.

**Regulatory Specifications**

ASTM A307  
ASTM A307  
ASTM A307

**General Specifications**

Material Type: Steel  
Color per Manufacturer  
Minimum Steel Height: 94 mm  
Minimum Cable Weight: 0.149 kg  
Finish: Galvanized Steel

**Mechanical Specifications**

Operating Temperature: -40°C to 105°C (-40°F to 141°F)  
UV Radiation: Minimum with an 8-year life  
Tensile Strength: 1100 lbs force in accordance with the manufacturer's recommendations  
Double cable weight

**Packaged Dimensions**

Height: 17.0 mm | 0.67 in.  
Width: 17.0 mm | 0.67 in.  
Depth: 6.35 mm | 0.25 in.  
Net Wt: 1.21 lb

**Regulatory Compliance/Certifications**

Agency: FCC Part 15.247  
Class of EMI: Class B  
Country: United States of America  
Certification: FCC Part 15.247 Class B

**Product Specifications**



243095-5  
Intermediate bolt for 1/2 in. or 7/8 in. double extension hangers, includes 2/8 in. hole and hardware

**Dimensions**

Overall Size: 127 mm | 5.00 in.  
Cable-to-cable separation: 124 mm | 4.88 in.  
Height: 94.0 mm | 3.70 in.  
Width: 49.0 mm | 1.93 in.

**Regulatory Specifications**

ASTM A307  
ASTM A307  
ASTM A307

**General Specifications**

Material Type: Steel  
Color per Manufacturer  
Minimum Steel Height: 94 mm  
Minimum Cable Weight: 0.149 kg  
Finish: Galvanized Steel

**Mechanical Specifications**

Operating Temperature: -40°C to 105°C (-40°F to 141°F)  
UV Radiation: Minimum with an 8-year life  
Tensile Strength: 1100 lbs force in accordance with the manufacturer's recommendations  
Double cable weight

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Height: 17.0 mm | 0.67 in.  
Width: 17.0 mm | 0.67 in.  
Depth: 6.35 mm | 0.25 in.  
Net Wt: 1.21 lb

**Regulatory Compliance/Certifications**

Agency: FCC Part 15.247  
Class of EMI: Class B  
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Certification: FCC Part 15.247 Class B

**Product Specifications**



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Cable-to-cable separation: 124 mm | 4.88 in.  
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Width: 49.0 mm | 1.93 in.

**Regulatory Specifications**

ASTM A307  
ASTM A307  
ASTM A307

**General Specifications**

Material Type: Steel  
Color per Manufacturer  
Minimum Steel Height: 94 mm  
Minimum Cable Weight: 0.149 kg  
Finish: Galvanized Steel

**Mechanical Specifications**

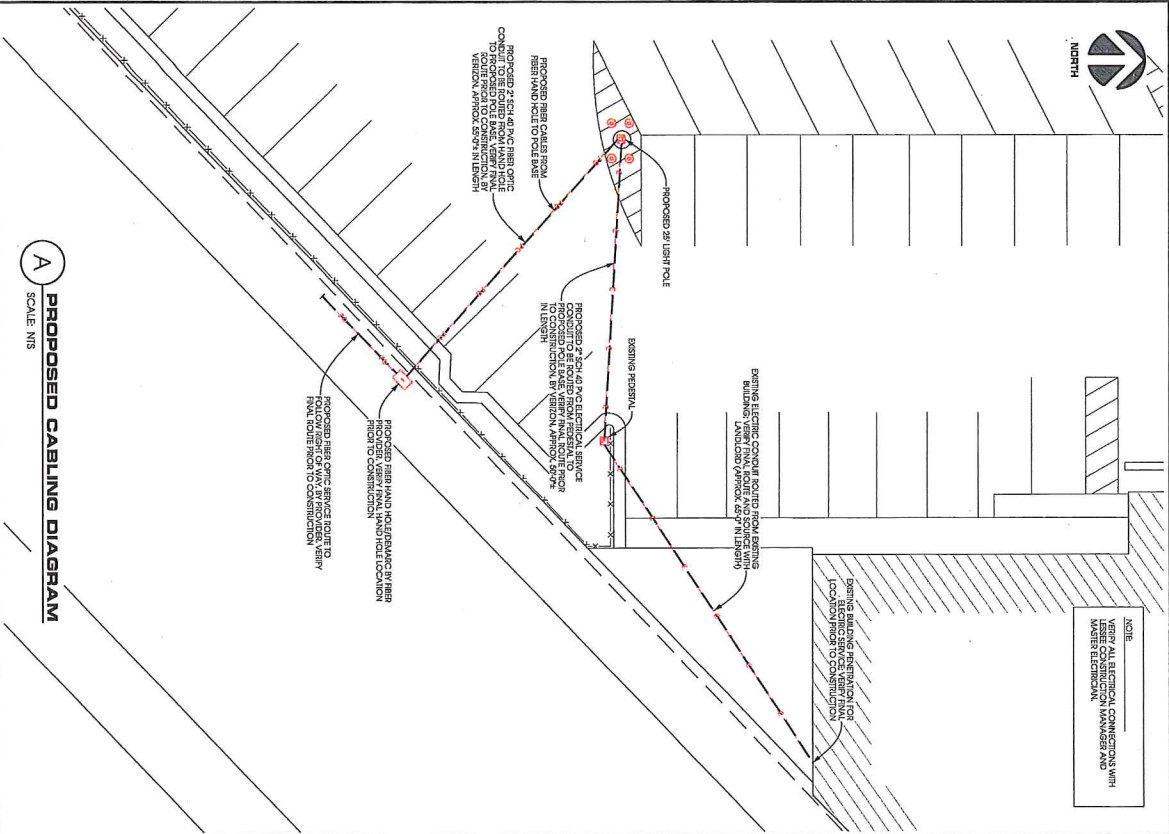
Operating Temperature: -40°C to 105°C (-40°F to 141°F)  
UV Radiation: Minimum with an 8-year life  
Tensile Strength: 1100 lbs force in accordance with the manufacturer's recommendations  
Double cable weight

**Packaged Dimensions**

Height: 17.0 mm | 0.67 in.  
Width: 17.0 mm | 0.67 in.  
Depth: 6.35 mm | 0.25 in.  
Net Wt: 1.21 lb

**Regulatory Compliance/Certifications**

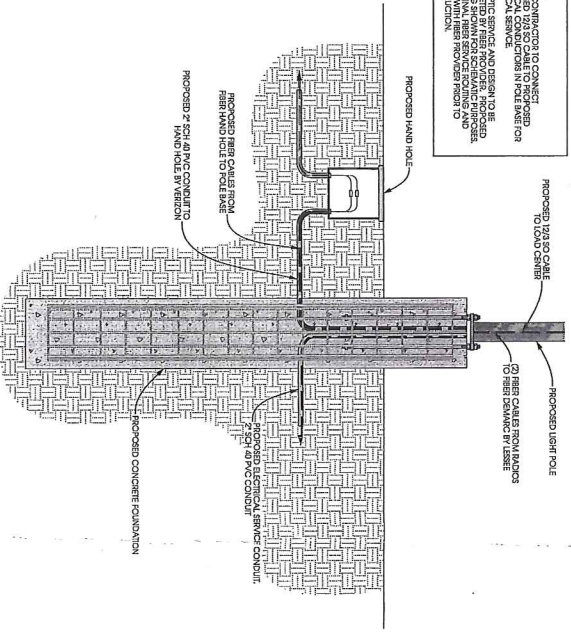
Agency: FCC Part 15.247  
Class of EMI: Class B  
Country: United States of America  
Certification: FCC Part 15.247 Class B



NOTE:  
VERIFY ALL ELECTRICAL CONNECTIONS WITH  
LOCAL ELECTRICAL CONTRACTORS AND  
WATER ELECTRICIAN

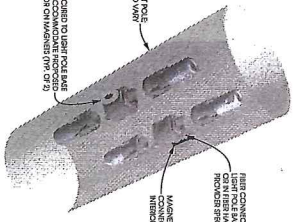
**A** PROPOSED CABLING DIAGRAM  
SCALE: NIS

NOTE:  
LEADER CONNECTIONS TO CONNECT  
ELECTRICAL CONNECTIONS IN POLE PANEL FOR  
RINGS OR CABLES AND PREPARE TO BE  
COMPLETED BY RISE PROVIDER. PROPOSED  
VERIFY FINAL RISE SERVICE ROUTING AND  
CONNECTION WITH RISE PROVIDER PRIOR TO  
CONSTRUCTION.



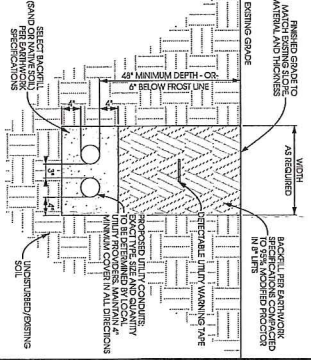
**B** POWER AND FIBER ROUTING  
SCALE: NIS

NOTE:  
PROPOSED RISE CONNECTION SEAL  
PROPOSED FINAL WIRE CONNECTIONS TO  
ROCKERS AND LOSS OF CONNECTION  
MATERIALS FROM THE CONSTRUCTION.



**C** FIBER CONNECTOR  
SCALE: NIS

NOTE:  
RINGS CONCRETE TO BE SET IN 4\"/>



**D** UTILITY TRENCH DETAIL  
SCALE: NIS



**Edge**  
Consulting Engineers, Inc.  
1746 Jupiter Pkwy, Suite 105  
Jupiter, FL 33457  
407.741.1000  
www.edgeconsulting.com

PROJECT NO.: 2016142750  
EDGE PROJECT NO.: 14660  
DRAWN BY: TRB  
CHECKED BY: CGD

REV.	DATE	DESCRIPTION
A	01/17/2016	ISSUE SMALL CELL DIVERSITY
B	03/23/2016	ISSUE SMALL CELL DIVERSITY
C	10/12/2016	FINAL DRAWINGS
D	01/19/2017	FINAL DRAWINGS
		TRB

APPROVED

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION,  
OR OTHER WORK PREPARED BY ME OR UNDER MY  
SUPERVISION AND CONTROL COMPLIES WITH ALL  
REQUIREMENTS OF THE FLORIDA PROFESSIONAL  
ENGINEERING ACT AND THE FLORIDA BOARD OF  
ENGINEERING REGULATION.

MINI SCALOY STPL SC  
ST. PAUL, MN  
PROPOSED LIGHT POLE  
SMALL CELL DRAWINGS

SHEET TITLE  
CABLING DETAILS

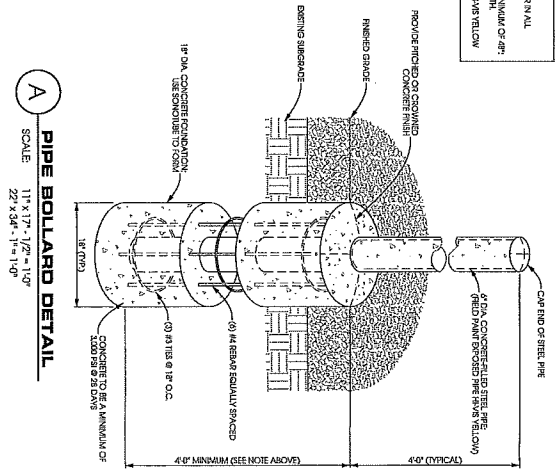
SHEET NUMBER  
E-1

**GENERAL ELECTRICAL NOTES**

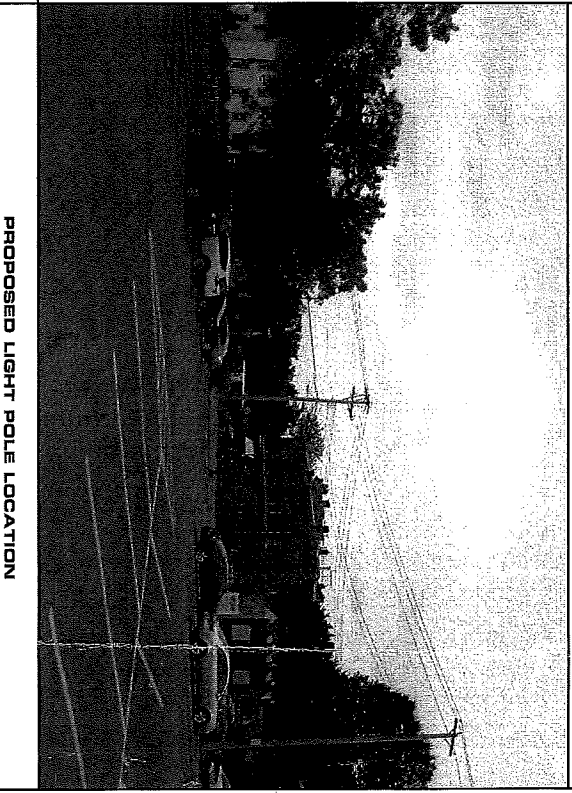
1. SHEETS OF NO INDICATE CONTRACTOR'S WORK IS TO BE COMPLETED AND WORK IS TO BE PROTECTED UNDER THE CONTRACT.
2. CONTRACTOR SHALL PROVIDE ALL VERTICAL CABLES, CABLES, AND BATTERY WORK FROM TO THE CENTER OF THE ELECTRICAL EQUIPMENT TO THE POINT OF CONNECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INDICATED IN THE DRAWINGS.
3. WIRING SHALL BE VESSELED WITH OWNERS' HELP TO INSULATION.
4. THERE SHALL BE ENOUGH WIRING ONLY - SOLIDLY AS CLOSELY AS POSSIBLE.
5. CONTRACTOR SHALL PROVIDE ALL NECESSARY BUILDING PERMITS.
6. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT, INSULATION, CONSTRUCTION TOOLS, AND LABOR FOR THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
7. ALL WIRING AND EQUIPMENT SHALL BE NEW AND IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA) AND ALL APPLICABLE LOCAL ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
9. CONTRACTOR SHALL OBTAIN ALL NECESSARY BUILDING PERMITS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
11. ALL CONDUIT ONLY (CO) SHALL HAVE A RUL WIRE ON ONE.
12. PROVIDE CONSTRUCTION SHEETS WITH ONE SET OF COMPLETE ELECTRICAL AS NOTATED DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ALL CABLES, CABLES, AND BATTERY WORK.
13. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA) AND ALL APPLICABLE LOCAL ORDINANCES.
14. LIST TYPE CONNECTION ON ALL MULTI-CIRCUIT WITH COMMON NEUTRAL CONDUCTORS.
15. ALL CONDUCTORS SHALL BE COPPER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE PROTECTED BY ALL APPLICABLE CODES AND DRAWINGS.
18. REPAIRS SHALL BE MADE TO ALL EXISTING UTILITIES AND STRUCTURES AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.
19. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA) AND ALL APPLICABLE LOCAL ORDINANCES.
20. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA) AND ALL APPLICABLE LOCAL ORDINANCES.
21. WIRE AND CABLE CONDUITS SHALL BE COVERED IN 12 AWG MINIMUM. NO OR ROLLED CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
22. GROUNDING SHALL BE AS SPECIFIED ON THE DRAWINGS. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.
23. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA) AND ALL APPLICABLE LOCAL ORDINANCES.
24. ALL MATERIALS SHALL BE LISTED.
25. CONTRACTOR SHALL OBTAIN ALL NECESSARY BUILDING PERMITS.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
29. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
32. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
33. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
34. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
35. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

**ELECTRICAL NOTES**

NOTE:  
 MAINTAIN 2" MINIMUM REBAR COVER IN ALL REBAR FOUNDATION PERMITS TO BE A MINIMUM OF 4" DEPTH TO REBAR LOCAL REBAR DEPTH.  
 PAINT CONCRETE FILL REBAR PERMITS WILL ALLOW



**A**  
**PIPE BOLLARD DETAIL**  
 SCALE: 11" x 17" - 1/2" = 1'-0"  
 22" x 34" - 1" = 1'-0"



**PROPOSED LIGHT POLE LOCATION**



**Edge**  
 Consulting Engineers, Inc.  
 17455 Amber Park Blvd. 105  
 Eden Prairie, MN 55349  
 952.441.4474  
 www.edgeconsulting.com

PROJECT NO.: 2016142730  
 EDGE PROJECT NO.: 14840  
 DRAWN BY: TBS  
 CHECKED BY: CBS

REV.	DATE	DESCRIPTION
A	08/18/2016	PRELIM SMALL CELL DRAWING
B	08/22/2016	FINAL SMALL CELL DRAWING
C	10/29/2017	FINAL DRAWINGS
1	02/29/2017	FINAL DRAWINGS

APPROVED

I HEREBY CERTIFY THAT THIS IS THE FINAL SELECTION OF THE PROJECT HAS BEEN REVIEWED BY ME FOR CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MIN SCULLION STPL SC  
 ST. PAUL, MN  
 PROPOSED LIGHT POLE  
 SMALL CELL DRAWINGS

SHEET TITLE  
**ELECTRICAL NOTES**

SHEET NUMBER  
**E-2**









8681 East Chaska Parkway, Building Three, Suite 370  
 513.246.9258 voice  
[www.kgiwireless.com](http://www.kgiwireless.com)

17046 Juniper Trail, Suite 105  
 626.641.4299 voice  
 626.641.4299 fax  
[www.edgeconsulting.com](http://www.edgeconsulting.com)

PROJECT NO: 2016142750  
 EDGE PROJECT NO: 14860  
 CHECKED BY: OGD

REV.	DATE	DESCRIPTION	INT.
A	07/13/2016	PHOTO SIMULATIONS	0088

**PRELIMINARY -  
NOT FOR CONSTRUCTION**

THESEY CERTIFY THAT THIS PLAN, SPECIFICATION, OR DIRECT SUPERVISION AND THAT I AM A duly Licensed Professional Engineer in the State of Minnesota.

MIN SCALLOP STPL SC  
 ST. PAUL, MN  
 SMALL CELL DRAWINGS

SHEET TITLE  
**PHOTO SIM 1**

SHEET NUMBER  
**PS-1**

(iii) Comparable equipment from pre-existing wireless deployments on the structure;

(3) The deployment will involve no new ground disturbance; and

(4) The deployment would otherwise require the preparation of an EA under paragraph (a)(4)(i) of this section solely because of the age of the structure; or

(B) The mounting of antennas (including associated equipment such as wiring, cabling, cabinets, or backup power) on buildings or other non-tower structures where the deployment meets the following conditions:

(1) There is an existing antenna on the building or structure;

(2) One of the following criteria is met:

(i) *Non-Visible Antennas*. The new antenna is not visible from any adjacent streets or surrounding public spaces and is added in the same vicinity as a pre-existing antenna;

(ii) *Visible Replacement Antennas*. The new antenna is visible from adjacent streets or surrounding public spaces, provided that

(A) It is a replacement for a pre-existing antenna,

(B) The new antenna will be located in the same vicinity as the pre-existing antenna,

(C) The new antenna will be visible only from adjacent streets and surrounding public spaces that also afford views of the pre-existing antenna,

(D) The new antenna is not more than 3 feet larger in height or width (including all protuberances) than the pre-existing antenna, and

(E) No new equipment cabinets are visible from the adjacent streets or surrounding public spaces; or

(iii) *Other Visible Antennas*. The new antenna is visible from adjacent streets or surrounding public spaces, provided that

(A) It is located in the same vicinity as a pre-existing antenna,

(B) The new antenna will be visible only from adjacent streets and surrounding public spaces that also afford views of the pre-existing antenna,

(C) The pre-existing antenna was not deployed pursuant to the exclusion in this subsection (§ 1.1307(a)(4)(ii)(B)(2)(iii)),

(D) The new antenna is not more than three feet larger in height or width (including all protuberances) than the pre-existing antenna, and

(E) No new equipment cabinets are visible from the adjacent streets or surrounding public spaces;

(3) The new antenna complies with all zoning conditions and historic preservation conditions applicable to existing antennas in the same vicinity

that directly mitigate or prevent effects, such as camouflage or concealment requirements;

(4) The deployment of the new antenna involves no new ground disturbance; and

(5) The deployment would otherwise require the preparation of an EA under paragraph (a)(4) of this section solely because of the age of the structure.

**Note to paragraph (a)(4)(ii):** A non-visible new antenna is in the "same vicinity" as a pre-existing antenna if it will be collocated on the same rooftop, façade or other surface. A visible new antenna is in the "same vicinity" as a pre-existing antenna if it is on the same rooftop, façade, or other surface and the centerpoint of the new antenna is within ten feet of the centerpoint of the pre-existing antenna. A deployment causes no new ground disturbance when the depth and width of previous disturbance exceeds the proposed construction depth and width by at least two feet.

\* \* \* \* \*

■ 4. Add Subpart CC to part 1 to read as follows:

#### **Subpart CC—State and Local Review of Applications for Wireless Service Facility Modification**

##### **§ 1.40001 Wireless Facility Modifications.**

(a) *Purpose*. These rules implement section 6409 of the Spectrum Act (codified at 47 U.S.C. 1455), which requires a State or local government to approve any eligible facilities request for a modification of an existing tower or base station that does not substantially change the physical dimensions of such tower or base station.

(b) *Definitions*. Terms used in this section have the following meanings.

(1) *Base station*. A structure or equipment at a fixed location that enables Commission-licensed or authorized wireless communications between user equipment and a communications network. The term does not encompass a tower as defined in this subpart or any equipment associated with a tower.

(i) The term includes, but is not limited to, equipment associated with wireless communications services such as private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.

(ii) The term includes, but is not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration (including Distributed Antenna Systems and small-cell networks).

(iii) The term includes any structure other than a tower that, at the time the relevant application is filed with the State or local government under this section, supports or houses equipment described in paragraphs (b)(1)(i) through (ii) of this section that has been reviewed and approved under the applicable zoning or siting process, or under another State or local regulatory review process, even if the structure was not built for the sole or primary purpose of providing such support.

(iv) The term does not include any structure that, at the time the relevant application is filed with the State or local government under this section, does not support or house equipment described in paragraphs (b)(1)(i)–(ii) of this section.

(2) *Collocation*. The mounting or installation of transmission equipment on an eligible support structure for the purpose of transmitting and/or receiving radio frequency signals for communications purposes.

(3) *Eligible facilities request*. Any request for modification of an existing tower or base station that does not substantially change the physical dimensions of such tower or base station, involving:

(i) Collocation of new transmission equipment;

(ii) Removal of transmission equipment; or

(iii) Replacement of transmission equipment.

(4) *Eligible support structure*. Any tower or base station as defined in this section, provided that it is existing at the time the relevant application is filed with the State or local government under this section.

(5) *Existing*. A constructed tower or base station is existing for purposes of this section if it has been reviewed and approved under the applicable zoning or siting process, or under another State or local regulatory review process, provided that a tower that has not been reviewed and approved because it was not in a zoned area when it was built, but was lawfully constructed, is existing for purposes of this definition.

(6) *Site*. For towers other than towers in the public rights-of-way, the current boundaries of the leased or owned property surrounding the tower and any access or utility easements currently related to the site, and, for other eligible support structures, further restricted to that area in proximity to the structure and to other transmission equipment already deployed on the ground.

(7) *Substantial change*. A modification substantially changes the physical dimensions of an eligible

support structure if it meets any of the following criteria:

(i) For towers other than towers in the public rights-of-way, it increases the height of the tower by more than 10% or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater; for other eligible support structures, it increases the height of the structure by more than 10% or more than ten feet, whichever is greater;

(A) Changes in height should be measured from the original support structure in cases where deployments are or will be separated horizontally, such as on buildings' rooftops; in other circumstances, changes in height should be measured from the dimensions of the tower or base station, inclusive of originally approved appurtenances and any modifications that were approved prior to the passage of the Spectrum Act.

(ii) For towers other than towers in the public rights-of-way, it involves adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater; for other eligible support structures, it involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure by more than six feet;

(iii) For any eligible support structure, it involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets; or, for towers in the public rights-of-way and base stations, it involves installation of any new equipment cabinets on the ground if there are no pre-existing ground cabinets associated with the structure, or else involves installation of ground cabinets that are more than 10% larger in height or overall volume than any other ground cabinets associated with the structure;

(iv) It entails any excavation or deployment outside the current site;

(v) It would defeat the concealment elements of the eligible support structure; or

(vi) It does not comply with conditions associated with the siting approval of the construction or modification of the eligible support structure or base station equipment, provided however that this limitation does not apply to any modification that is non-compliant only in a manner that would not exceed the thresholds identified in § 1.40001(b)(7)(i) through (iv).

(8) *Transmission equipment.*

Equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, and regular and backup power supply. The term includes equipment associated with wireless communications services including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.

(9) *Tower.* Any structure built for the sole or primary purpose of supporting any Commission-licensed or authorized antennas and their associated facilities, including structures that are constructed for wireless communications services including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul, and the associated site.

(c) *Review of applications.* A State or local government may not deny and shall approve any eligible facilities request for modification of an eligible support structure that does not substantially change the physical dimensions of such structure.

(1) *Documentation requirement for review.* When an applicant asserts in writing that a request for modification is covered by this section, a State or local government may require the applicant to provide documentation or information only to the extent reasonably related to determining whether the request meets the requirements of this section. A State or local government may not require an applicant to submit any other documentation, including but not limited to documentation intended to illustrate the need for such wireless facilities or to justify the business decision to modify such wireless facilities.

(2) *Timeframe for review.* Within 60 days of the date on which an applicant submits a request seeking approval under this section, the State or local government shall approve the application unless it determines that the application is not covered by this section.

(3) *Tolling of the timeframe for review.* The 60-day period begins to run when the application is filed, and may be tolled only by mutual agreement or in cases where the reviewing State or local government determines that the application is incomplete. The timeframe for review is not tolled by a

moratorium on the review of applications.

(i) To toll the timeframe for incompleteness, the reviewing State or local government must provide written notice to the applicant within 30 days of receipt of the application, clearly and specifically delineating all missing documents or information. Such delineated information is limited to documents or information meeting the standard under paragraph (c)(1) of this section.

(ii) The timeframe for review begins running again when the applicant makes a supplemental submission in response to the State or local government's notice of incompleteness.

(iii) Following a supplemental submission, the State or local government will have 10 days to notify the applicant that the supplemental submission did not provide the information identified in the original notice delineating missing information. The timeframe is tolled in the case of second or subsequent notices pursuant to the procedures identified in this paragraph (c)(3). Second or subsequent notices of incompleteness may not specify missing documents or information that were not delineated in the original notice of incompleteness.

(4) *Failure to act.* In the event the reviewing State or local government fails to approve or deny a request seeking approval under this section within the timeframe for review (accounting for any tolling), the request shall be deemed granted. The deemed grant does not become effective until the applicant notifies the applicable reviewing authority in writing after the review period has expired (accounting for any tolling) that the application has been deemed granted.

(5) *Remedies.* Applicants and reviewing authorities may bring claims related to Section 6409(a) to any court of competent jurisdiction.

**PART 17—CONSTRUCTION, MARKING, AND LIGHTING OF ANTENNA STRUCTURES**

■ 5. The authority citation for part 17 continues to read as follows:

**Authority:** Sections 4, 303, 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply sections 301, 309, 48 Stat. 1081, 1085 as amended; 47 U.S.C. 301, 309.

■ 6. Amend § 17.4 by revising paragraphs (c)(1)(v) and (c)(1)(vi), and adding paragraph (c)(1)(vii) to read as follows:

**§ 17.4 Antenna structure registration.**

\* \* \* \* \*

(c) \* \* \*

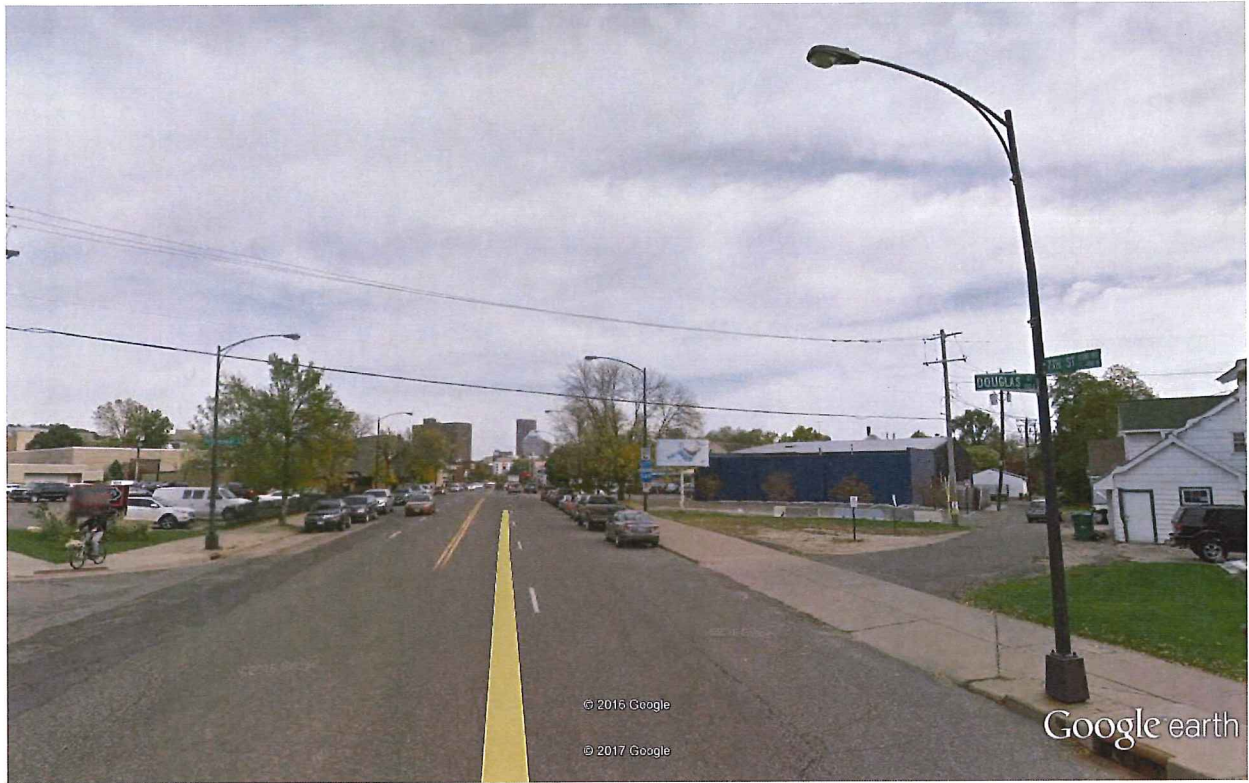
Staff-provided Streetview Photos



Facing north



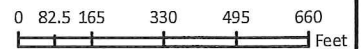
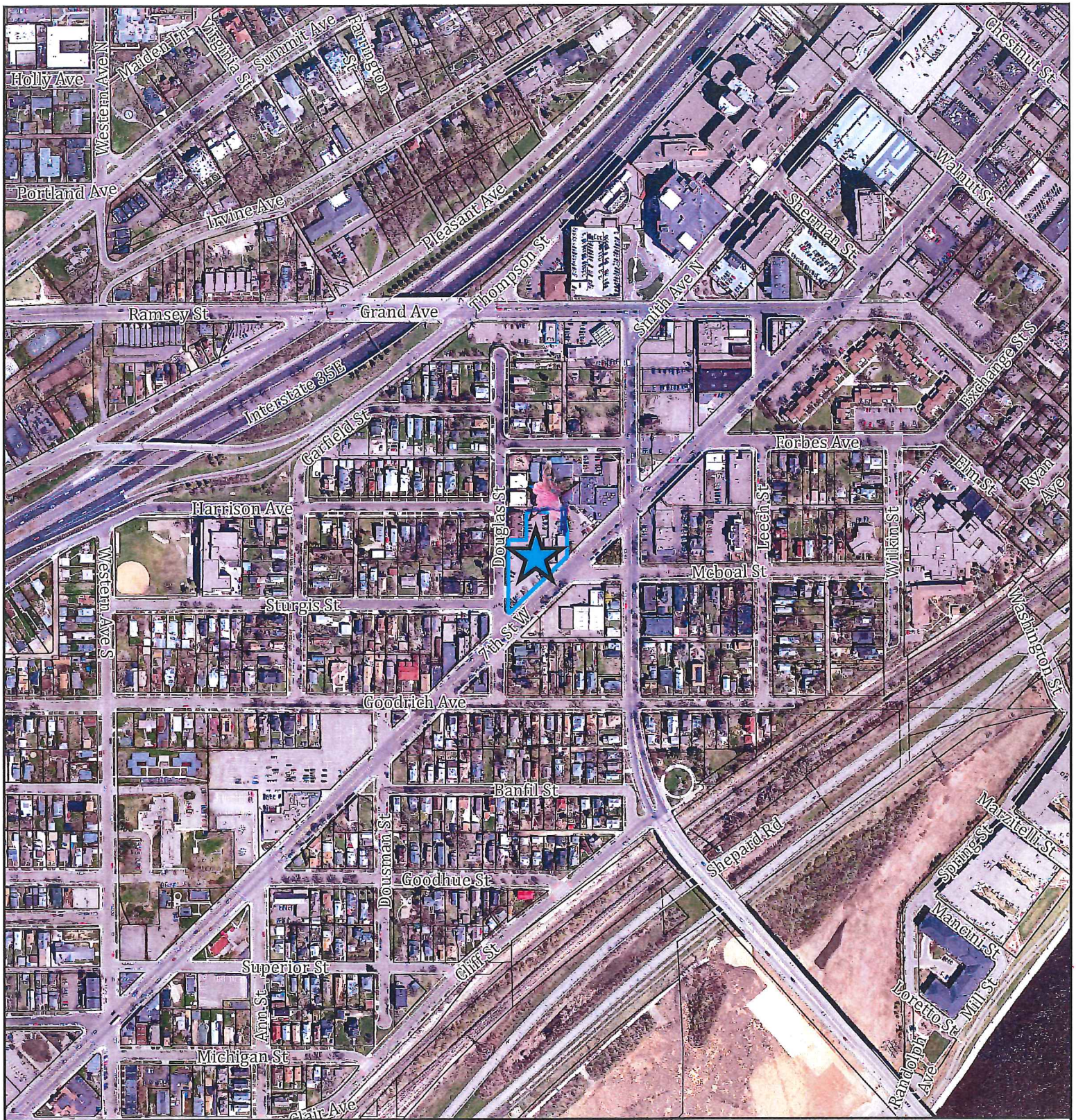
Facing northwest



Facing northeast



Facing southeast



FILE NAME: Verizon Wireless

Aerial

APPLICATION TYPE: CUP

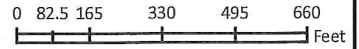
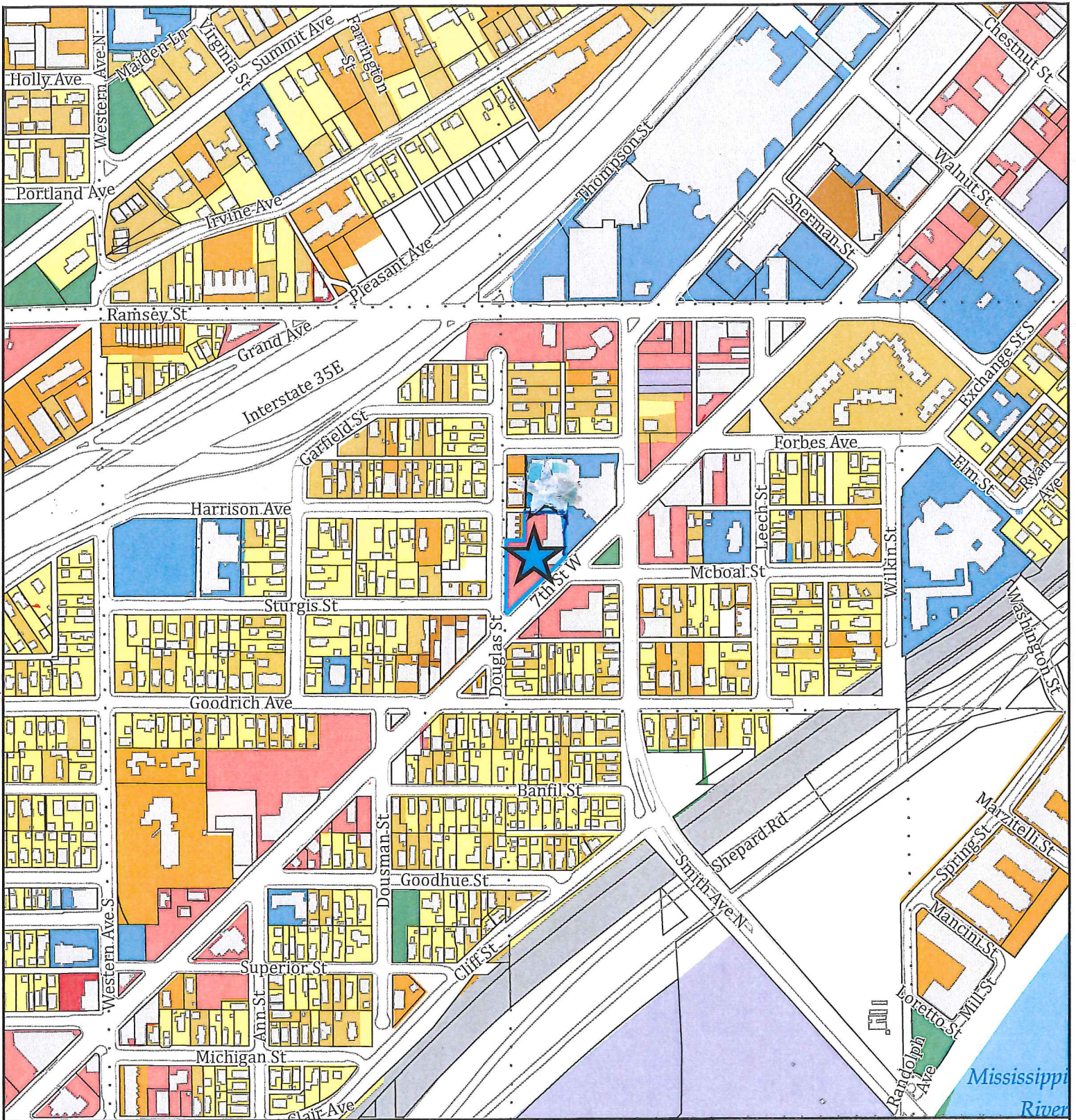
 Subject Parcels

FILE #: 17-006742 DATE: 1/26/2017

PLANNING DISTRICT: 9

ZONING PANEL: 15





FILE NAME: Verizon Wireless

APPLICATION TYPE: CUP

FILE #: 17-006742      DATE: 1/26/2017

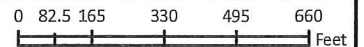
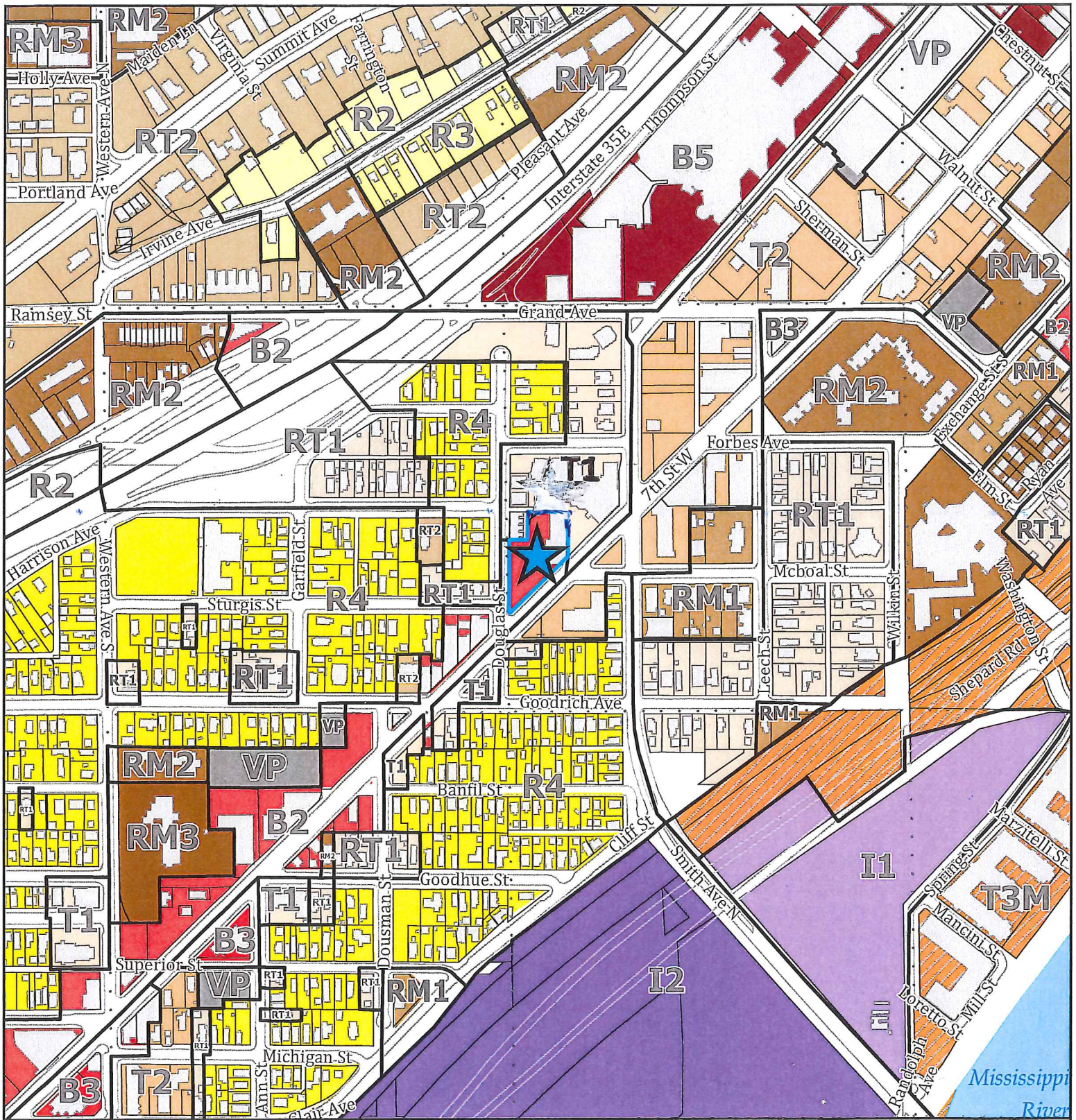
PLANNING DISTRICT: 9

ZONING PANEL: 15

**Land Use**

- |                                |                                |
|--------------------------------|--------------------------------|
| Single Family Detached         | Institutional                  |
| Single Family Attached         | Park, Recreational or Preserve |
| Multifamily                    | Railway                        |
| Office                         | Undeveloped                    |
| Retail and Other Commercial    | Water                          |
| Mixed Use Residential          | Subject Parcels                |
| Mixed Use Commercial and Other | Section Lines                  |
| Industrial and Utility         |                                |





FILE NAME: Verizon Wireless

APPLICATION TYPE: CUP

FILE #: 17-006742      DATE: 1/26/2017

PLANNING DISTRICT: 9

ZONING PANEL: 15

**Zoning**

- Subject Parcels
- Section Lines
- R2 One-Family
- R3 One-Family
- R4 One-Family
- RT1 Two-Family
- RT2 Townhouse
- RM1 Multiple-Family
- RM2 Multiple-Family
- RM3 Multiple-Family
- T1 Traditional Neighborhood
- T2 Traditional Neighborhood
- T3M T3 with Master Plan
- B2 Community Business
- B3 General Business
- B5 Central Business Service
- I1 Light Industrial
- I2 General Industrial
- VP Vehicular Parking

