An administrative meeting will be held at the request of Chaille Tower Consultants, LLC, on behalf of Verizon Wireless, LLC, to review waiver requests for the location of two small cell antenna wireless facilities. The request of these waivers is allowed under Title VII, Chapter 79D, Section 7.166 of the East Grand Rapids City Code. Pursuant to the City Code, the request will be heard by the Director of Public Works. The requested waivers are for the following:

- VzW Site #40832 (Estimated Address 1487 Breton Road SE) - wireless facility requested to be co-located on an existing utility pole within 10' of a residential driveway.
- VzW Site #40840 (Estimated Address 2446 Berwyck Road SE) - wireless facility requested to be co-located on an existing utility pole within 10' of a residential driveway.

These waivers will be the only items on the meeting agenda. Either a waiver will be granted for the requested location or the waiver will be denied and the Applicant will need to find a conforming location nearby for a new pole to be placed by Verizon. For more information on 5G small cell antenna technology, please visit our website at:

https://www.eastgr.org/529/Small-CellDAS

If you would like to submit written comments on either waiver request, please do so by 5:00 p.m. on Monday, August 31, 2020. Comments can be dropped off in the City's drop box or can be emailed to amizikar@eastgr.org.

Aleksander P. Mizikar
Zoning Administrator
NODE #40832
1487 BRETON ROAD SE (ESTIMATED)
EAST GRAND RAPIDS, MICHIGAN 49506
(FINAL ADDRESS TO BE ISSUED BY MUNICIPALITY)

PROJECT DESCRIPTION

SITE COORDINATES:
- Longitude: 83° 56' 10.5" N
- Latitude: 83° 56' 36.0" W
- Ground Elevation: 740.0
- Pole Location: Land Ownership: Public Road

PROJECT SUMMARY

PROPOSED SMALL CELL EQUIPMENT ON CONSUMERS ENERGY POLE

SITE ACQUISITION CONSULTANT:

SURVEYOR:

CIVIL ENGINEER:

SITE ACQUISITION CONSULTANT:

PROJECT TEAM

DO NOT SCALE DRAWINGS

GENERAL CONTRACTOR NOTES

MIDWESTERN & TNS8/TIN*
3815 Plaza Drive
Ann Arbor, Michigan 48108
(734) 995-0200
www.midwesternconsulting.com
Land Development • Land Survey
Institutional • Municipal
Wireless Communications
Transportation • Landfill Services
Spectrum: 28 GHz
IBW: 850MHz
CBW: Up to 800MHz
EIRP: ~55 dBm

# of Users: 2.000+
Total Antenna BW: 1600 MHz
Throughput: 5 Gbps DL/1 Gbps UL
# CPRI ports: 2
TN/IDL ports: 2/2

Weight: ~13 kg (29 lbs)
Size: 20.5" x 4.9" x 7.9" (13 l)

Power Input: AC: 100-250V
Operational conditions: -40 to +55 degrees
Cooling: Active
Power: <300W Max

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATIONS</th>
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<tbody>
<tr>
<td>HEIGHT (_PANEL ONLY)</td>
<td>15 in.</td>
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<tr>
<td>DEPTH, BASE (FRONT TO BACK)</td>
<td>5.5 in.</td>
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<tr>
<td>WIDTH</td>
<td>12 in.</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>4 lbs.</td>
</tr>
<tr>
<td>CONSTRUCTION</td>
<td>RUGGED UL94-SVA GRAY POLYCARBONATE</td>
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<td>SUPPORTED FIBER CONNECTOR TYPES</td>
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<td>COMPLIANCE</td>
<td>DESIGNED TO MEET GR-950, GR2898, NEMA 4, IP66</td>
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<td>SPlicing CAPACITY</td>
<td>UP TO THREE (3) 4&quot;x6&quot; HINGED SPLICE TRAYS ON FEED FIBER SIDE.</td>
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AIR6701 ANTENNA

HYBRID TO-THE-ANTENNA (HTTA) BOX
UTILITY NOTES:

1. PROVIDE AND INSTALL WARKING TARP FOR ELECTRIC SERVICE CONDUCTORS 3" BELOW GRADE.

2. ALL CONDUIT SHALL BE PVC AND 4" IN DIAMETER.

3. CONTRACTOR SHALL PROVIDE A TRENCH FOR ELECTRIC AND TELEPHONE AND FIBER OPTIC UTILITIES. CONDUIT SHALL BE 3" IN DIAMETER. CONDUIT SHALL BE MOUNTED ON THE R.O.W. LINE AND EXACT LOCATION OF ALL CONDUIT TO BE DETERMINED BY CONTRACTOR. CONDUIT SHALL BE 3" IN DIAMETER AND SHALL BE MOUNTED ON THE R.O.W. LINE.

4. CONTRACTOR TO PAY ALL FEES FOR SERVICES REQUIRED.

5. CONTRACTOR TO PROVIDE ALL MATERIALS TO PROVIDE PERFORMANCE BONDS AND OTHER REQUIREMENTS AS REQUIRED BY THE CONTRACTOR.

6. ELECTRICAL CONTRACTOR TO PROVIDE ELEKTIC CONDUIT AND EAST TO THE EQUIPMENT CONNECTED TO MANUFACTURER'S DRAWINGS.

7. INSTALL FULL SUPPLY FROM TRENCH CONDUIT TO THE EQUIPMENT CONNECTED TO MANUFACTURER'S DRAWINGS.

8. CONTRACTOR TO PROVIDE ALL MATERIALS TO PROVIDE PERFORMANCE BONDS AND OTHER REQUIREMENTS AS REQUIRED BY THE CONTRACTOR.

9. STANDARD POWER SUPPLY FOR SMALL GEAR IS A 100 AMP, 120/240 VOLT, SINGLE PHASE SERVICE.
PROJECT DESCRIPTION

SITE COORDINATES:
- Latitude: 42° 55' 55.0" N
- Longitude: 85° 36' 27.4" W
- Ground Elevation: 785.9
- Pole Location and Land Ownership: Public Road

PROJECT TEAM

CIVIL ENGINEER:
SURVEYOR:

SITE ACQUISITION CONSULTANT:

SITE COORDINATES:

PROJECT SUMMARY

PROPOSED SMALL CELL EQUIPMENT
ON CONSUMERS ENERGY POLE

LOCATION MAP

VICTIM MAP

SITE

SITE

BERWYCK ROAD SE

ARUNDEL ROAD SE

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**CLIMBING ZONE DETAIL (TOP VIEW)**

**NOT TO SCALE**

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**NOTES**

1. Maintain one foot minimum working clearance from exposed 5G antenna. If clearance cannot be maintained, shut down antenna per instructions on placard via disconnect switch on pole.

2. Antenna and mounting brackets installed above consumers energy wires must be installed and maintained by consumers energy or consumers energy’s designated contractor.

3. Vertical climbing zone must be maintained on all poles. (See top view)

4. Breaker panel to be clearly labeled with owner’s name and 1-800 phone number with 3/4” tall lettering.

5. Shutdown placard to be placed on pole near disconnect box.

6. Maintain five feet minimum clearance above any consumers energy equipment.

7. Antenna pole top clearance apply to any consumers energy equipment or wires installed under the antenna.
Spectrum: 28 GHz
IBW: 850MHz
CBW: Up to 800MHz
EIRP: ~55 dBm

# of Users: 2,000+
Total Antenna BW: 1600 MHz
Throughput: 5 Gbps DL/ 1 Gbps UL

# CPRI ports: 2
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SINGLE POINT RADIAL GROUND DETAIL

NOTES:
1. EXCAVATE TO REQUIRED DEPTH
2. VERIFY ALL THREAVERS REQUIREMENTS
3. EARTH SEEDING WITH SOFT CONTACT
4. TYPICAL SPACING FOR ALL UNDERGROUND CONDUITS

GROUND ROD DETAIL

#2 SOLID BARE THINNED COPPER GROUNDING CONDUCTOR INSIDE 1" U-GUARD

WOOD POLE

35" MIN.

#8 WARNING TAPE ABOVE GROUND EQUIPMENT

EXOTHERMIC CONNECTION OR UL APPROVED GROUND GROUND CONNECTION

#2 SOLID BARE THINNED COPPER GROUNDING CONDUCTOR

CALVANIZED STEEL GROUND ROD
5/8" DIAM. X 8'-0" LONG

POWER CONDUIT: IF REQUIRED FOR PROJECT

COMPACTED FILL (SOIL) OR SLURRY AS PER UTILITIES REQUIREMENTS

TELOD CONDUIT: IF REQUIRED FOR PROJECT

EXCAVATED EARTH

3'-6" MIN. OR AS PER LOCAL CODE WHICHEVER IS GREATER

TRENCH AS REQUIRED

6" WIDE WARNING TAPE WITH BLACK LETTERS, TAPE TO READ "CAUTION - ELECTRIC LINE BURIED BELOW.

REPLACE TO WATCH EXISTING GROUND COVER, WATCH THICKNESS IN HAND

UTILITY SERVICE TRENCH DETAIL