

ASR Registration Search

Registration 1055176 [Map Registration](#)**Exhibit 13.1****Copy of Antenna Structure Registration****Registration Detail**

| | | | |
|-------------|----------|-------------|-------------|
| Reg Number | 1055176 | Status | Constructed |
| File Number | A0895292 | Constructed | 12/07/1996 |
| EMI | No | Dismantled | |
| NEPA | No | | |

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

| | | | |
|-----------------------|----------------------------|-------------------------------|----------------|
| Lat/Long | 42-43-13.0 N 084-31-09.0 W | Address | 2150 E MAIN ST |
| City, State | LANSING , MI | | |
| Zip | 48912 | County | INGHAM |
| Center of AM Array | | Position of Tower in Array | |

Heights (meters)

| | |
|--|--|
| Elevation of Site Above Mean Sea Level | Overall Height Above Ground (AGL) |
| 253.8 | 99.3 |
| Overall Height Above Mean Sea Level | Overall Height Above Ground w/o Appurtenances |
| 353.1 | 99.3 |

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

| | | | |
|-----------|----------------|----------------|------------|
| FAA Study | 97-AGL-0152-OE | FAA Issue Date | 02/19/1997 |
|-----------|----------------|----------------|------------|

Owner & Contact Information

| | | | |
|--------------|------------|--------------|---------------------------|
| FRN | 0023438401 | Owner Entity | Limited Liability Company |
| Assignor FRN | 0022949226 | Assignor ID | L01825175 |

OwnerTOWNSQUARE MEDIA LANSING, LLC
Attention To: FCC CONTACT
240 GREENWICH AVE.
GREENWICH , CT 06830P: (203)861-0900
F:
E: normanphilips@townsquaremedia.com**Contact**Philips , Norman J
2309 Roosevelt Dr.
Suite -C-
Arlington , TX 76016P: (203)485-9876
F:
E: normanphilips@townsquaremedia.com**Last Action Status**

| | | | |
|--------|-------------|----------|------------|
| Status | Constructed | Received | 03/18/2014 |
|--------|-------------|----------|------------|

Exhibit 13.1
Copy of Antenna Structure Registration

| | | | |
|---------|--------------|---------|------------|
| Purpose | Change Owner | Entered | 03/18/2014 |
| Mode | Interactive | | |

Related Applications

| | | |
|------------|----------|---------------------|
| 03/18/2014 | A0895292 | - Change Owner (OC) |
| 12/08/2013 | A0866416 | - Change Owner (OC) |
| 09/26/2012 | A0786646 | - Admin Update (AU) |

Related applications (9)

Comments

Comments

None

History

| Date | Event |
|------------|---------------------------------|
| 03/19/2014 | Registration Printed |
| 03/19/2014 | Change of Ownership Letter Sent |
| 03/18/2014 | Change of Ownership Received |

All History (25)

Automated Letters

| | |
|------------|------------------------------------|
| 03/19/2014 | Authorization, Reference |
| 03/19/2014 | Ownership Change, Reference 792246 |
| 12/10/2013 | Authorization, Reference |

All letters (12)

CLOSE WINDOW

Exhibit 13.2

Vertical Plan of Antenna System

The site is located at 2150 E. Main Street, Lansing,
Ingham County, MI.

Site Location (NAD 27)

NL: 42° 43' 13"

WL: 84° 31' 09"

(42-43-13.0 NL; 84-31-09.0 WL (NAD1983))

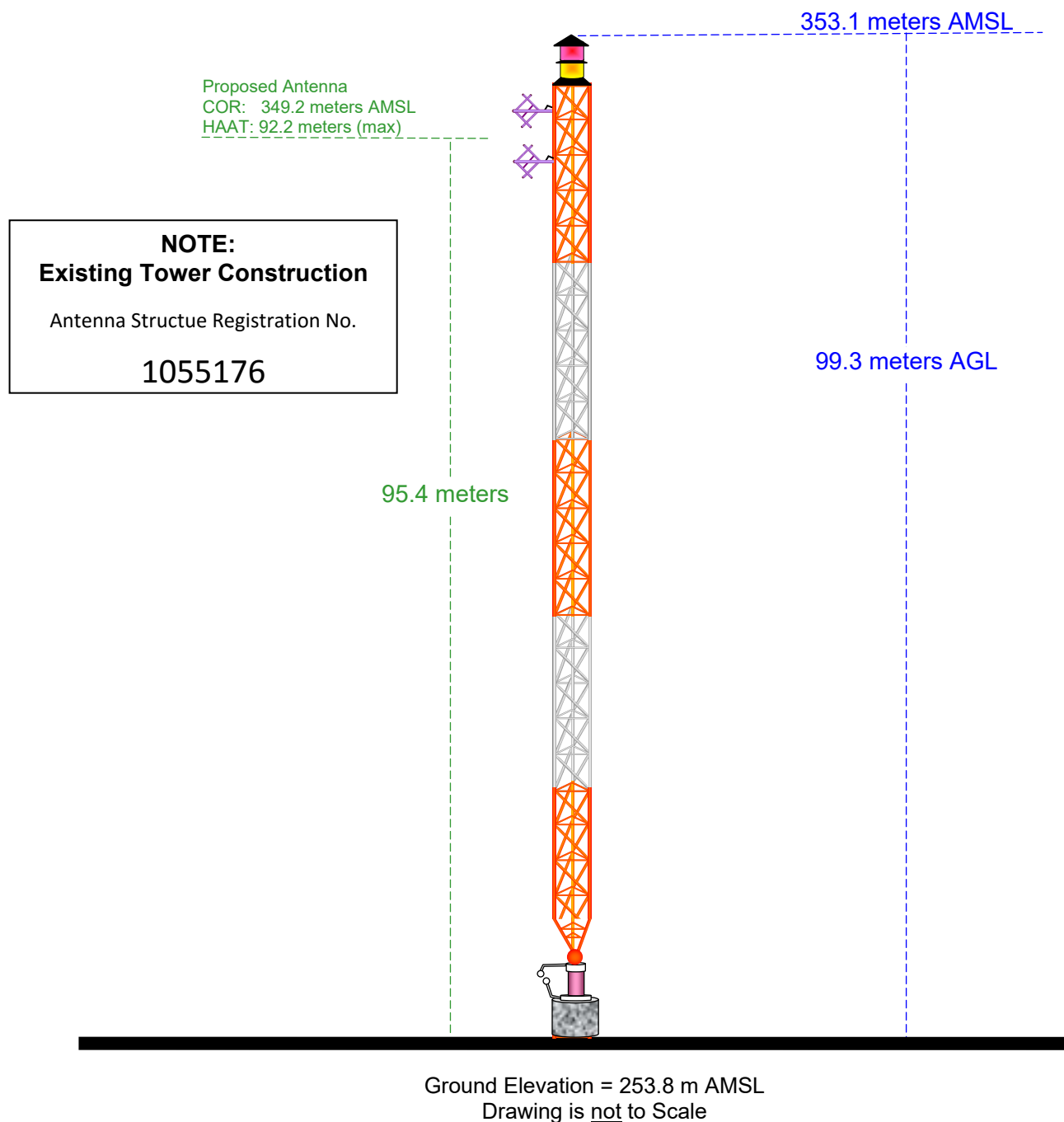


Exhibit 13.3 - Present vs Proposed Service Contour Study

W284AH.L
BLFT20150716ABY
Latitude: 42-44-19 N
Longitude: 084-33-05 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 285.0 m
Elevation: 258.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

2010 Census Data:

60 dBu F(50:50) Contour

Total Population: 165,195
Coverage Area: 158 sq. km

W284AH.P
BLFT20150716ABY
Latitude: 42-43-13 N
Longitude: 084-31-09 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 349.2 m
Elevation: 253.8 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

2010 Census Data:

60 dBu F(50:50) Contour

Total Population: 278,726
Coverage Area: 447 sq. km

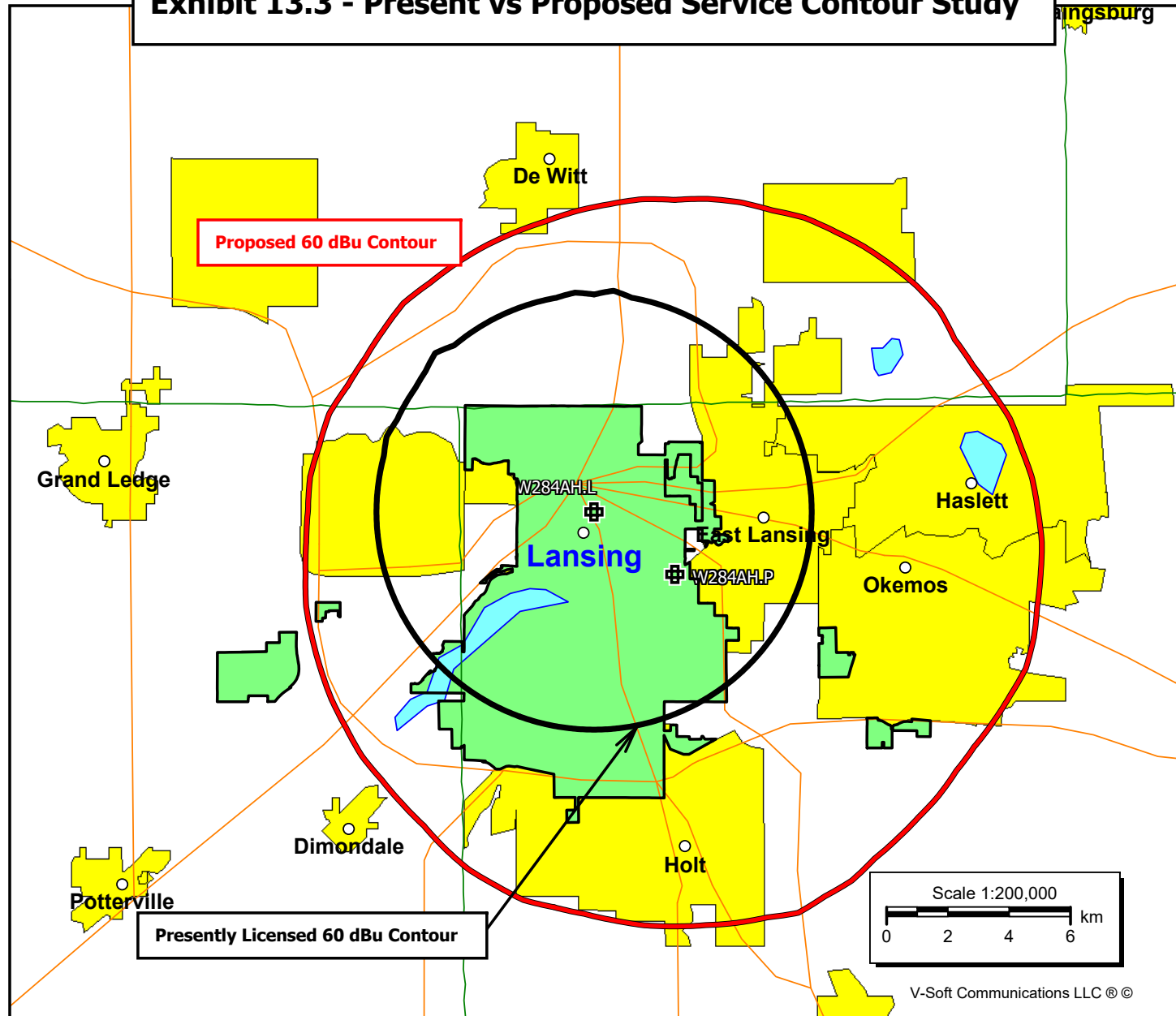


Exhibit 13.4 - Primary vs Proposed Service Contour Study

Proposed 60 dBu Contour

KTGG(CP) 25 Mile Radius

KTGG(CP) 2 mV/m Contour

Lansing

Scale 1:500,000

0 7 14 21 km

V-Soft Communications LLC ©

KTGG.CP
Construction Permit
Okemos, MI
Latitude: 42-43-13 N
Longitude: 084-31-09 W
Power: 0.4 kW
Frequency: 1540 kHz
Daytime NDA Operation

KTGG(CP) 2 mV/m Contour

Scale 1:500,000

V-Soft Communications LLC ® ©

Exhibit 13.5

W284AH Proposed Allocation Study

Munn-Reese, Inc.
Coldwater, MI 49036

W284AH - Lansing, MI
Proposed Allocation Study
CH# 284D - 104.7 MHz, Pwr= 0.25 kw, HAAT= 85.1 M, COR= 349.2 M
Average Protected F(50-50)= 11.91 km
Omni-directional

REFERENCE
42 43 13.0 N.
84 31 09.0 W.

DISPLAY DATES
DATA 11-13-15
SEARCH 11-13-15

| CH CITY | CALL | TYPE STATE | ANT STATE | AZI <-- | DIST FILE # | LAT LNG | PWR(kw) HAAT(M) | INT(km) COR(M) | PRO(km) LICENSEE | *IN* (Overlap in km) | *OUT* |
|-------------------------|---------|---------------|--------------|----------------|---------------------------|--------------------------|--------------------|-------------------|------------------------------------|-------------------------|--------|
| 284D Lansing | W284AH | LIC _C_ | MI | 307.8 127.7 | 3.32 BLFT20150716ABY | 42 44 19.0 84 33 05.0 | 0.250 285 | 23.8 | 7.1 Spring Arbor University | -32.8* | -46.3* |
| 284B Toledo | WIOT | LIC _CX | OH | 141.9 322.6 | 147.21 BMLH20020611AAX | 41 40 23.0 83 25 31.0 | 50.000 165 | 140.0 345 | 67.2 Citicasters Licenses, Inc. | -4.1< | 25.1 |
| 285A Marshall | WBXX | LIC _CN | MI | 216.7 36.5 | 56.39 BMLH19900518KC | 42 18 47.0 84 55 46.0 | 6.000 100 | 40.6 374 | 26.3 Townsquare Media Battle Cr | 4.1 | 13.0 |
| 281B Grand Rapids | WVGR | LIC DCX | MI | 265.3 84.6 | 82.70 BMLED20080306ABQ | 42 39 17.0 85 31 38.0 | 96.000 221 | 7.4 469 | 73.7 Regents Of The University | 63.2 | 7.5 |
| 285A Alma | WQBX | LIC NCX | MI | 354.5 174.4 | 72.45 BLH20141219ACN | 43 22 08.0 84 36 19.0 | 6.000 100 | 42.3 327 | 27.4 Jacom, Inc. | 17.8 | 26.9 |
| 284B Elkhart | WFRN-FM | LIC _CX | IN | 224.7 43.7 | 170.34 BMLH20041230ACW | 41 37 18.0 85 57 37.0 | 50.000 140 | 138.6 384 | 65.9 Progressive Broadcasting S | 20.1 | 48.3 |
| 231B Jackson | WWDK | LIC _C_ | MI | 198.4 18.3 | 38.45 BMLH20150427AAT | 42 23 31.0 84 40 00.0 | 40.000 168 | 0.0 457 | 0.0 Midwest Communications, In | 14.5R | 24.0M |
| 284L1 Mundy Township | WMPR-LP | LIC _C_ | MI | 71.6 252.2 | 70.98 BLL20150302AIH | 42 55 08.0 83 41 31.0 | 0.100 29 | 285 | 40.1 Swartz Creek Radio | | 24.0 |
| 283A Saginaw | WILZ | LIC NCN | MI | 32.7 213.1 | 89.03 BLH19920825KB | 43 23 34.0 83 55 27.0 | 2.900 126 | 40.6 309 | 26.7 Radio License Holding Cbc, | 36.1 | 44.1 |
| 284D Detroit | W284BQ | LIC DC_ | MI | 104.9 285.8 | 114.27 BLFT20101227ABN | 42 26 53.0 83 10 23.0 | 0.250 283 | 65.5 481 | 21.6 Family Life Broadcasting S | 36.9 | 52.1 |
| 287A Brooklyn | WKHM-FM | LIC _CN | MI | 171.3 351.4 | 63.70 BLH19940201KC | 42 09 14.0 84 24 07.0 | 2.200 115 | 2.2 418 | 24.5 Jackson Radio Works, Inc. | 50.0 | 38.1 |
| 283B Muskegon | WSNX-FM | LIC _CN | MI | 294.2 113.1 | 134.12 BLH19880930KC | 43 12 16.0 86 01 45.0 | 32.000 189 | 75.9 392 | 64.0 Cc Licenses, LLC | 45.7 | 43.7 |
| 282B Detroit | WOMC | LIC _CN | MI | 103.2 284.1 | 118.25 BLH19970512KI | 42 28 10.0 83 06 54.0 | 190.000 110 | 6.7 306 | 69.8 Cbs Radio Inc. Of Michigan | 99.6 | 47.0 |
| 286B Detroit | WMGC-FM | LIC _CX | MI | 104.5 285.4 | 114.83 BMLH20061004AIW | 42 27 13.0 83 09 50.0 | 50.000 150 | 5.8 349 | 63.7 Greater Boston Radio, Inc. | 97.2 | 49.6 |
| 284C2 Tawas City | WKJC | LIC _CN | MI | 20.7 201.3 | 201.67 BLH19970121KA | 44 24 48.0 83 37 14.0 | 50.000 150 | 137.1 382 | 51.6 Carroll Enterprises, Inc. | 52.2 | 107.5 |
| 287B Coopersville | AL6792 | RSV-A _C_ | MI | 302.7 121.8 | 129.88 RM10545 | 43 20 36.0 85 52 16.0 | 50.000 150 | 5.6 383 | 62.1 112.0 | | 66.3 |
| 287B Coopersville | WHTS | LIC _CX | MI | 300.5 119.6 | 130.85 BLH20060516ACU | 43 18 35.0 85 54 45.0 | 20.000 242 | 5.4 469 | 62.7 Radio License Holding Cbc, | 113.1 | 66.6 |
| 284D Detroit | W284BQ | CP DC_ | MI | 101.2 282.2 | 122.94 BPFT20120914ACU | 42 29 43.0 83 02 53.0 | 0.250 250 | 28.5 | 8.6 Family Life Broadcasting S | 82.5 | 73.5 |
| 282A Mount Pleasant | WCZY-FM | LIC _CN | MI | 345.8 165.6 | 100.25 BLH19910828KB | 43 35 39.0 84 49 26.0 | 3.000 100 | 2.3 351 | 24.3 Latitude Media, LLC | 85.7 | 74.9 |

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
< = Contour Overlap
Reference station has protected zone issue: AM tower