GENERAL NOTES:

1. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS SIZE, LOCATION, AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED ON THE PLANS AND THE MANIFIERS OF THEIR REMOVAL OR RELOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES OR IMPROVEMENTS PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION ON LOCATION. GENERAL CONTRACTOR TO ENSURE THAT ALL BUILDING PLANNED AREAS ARE SEALED AND WEATHERPROOFED.

2. THIS INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

3. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PERFORM THE CONSTRUCTION IN ACCORDANCE WITH THE CONTRACTOR'S SUPERVISION AND DIRECTION. CONTRACTOR SHALL NOT BE LIABLE TO ANYONE FOR ANY ERROR OR OMISSION CONSIDERED MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.

4. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

5. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE SCOPE OF WORK BEING PERFORMED. THE CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE SCOPE OF WORK BEING PERFORMED. THE CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE SCOPE OF WORK BEING PERFORMED.

6. ALL WORK SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

PAINTING NOTES & SPECIFICATIONS:

A. GESSO:

1. A-100 latex house & trim, sheen to match

2. Lime Putty - Corothane III B65W200/B60V2

3. Primer - Kem Aqua E61-W525

4. Topcoat - Gavmzil Metal

5. Primer - Gavmzil Metal

B. CONCRETE:

1. Sea port cement, Type IV

2. 3000 psig concrete strength

3. Concrete mix design and reinforcing steel shop drawings for approval by the architect and engineer of record.

4. Lightweight aggregate concrete shall be used to meet the owner's requirements for lightweight concrete. In addition, lightweight aggregate concrete shall be used to meet the owner's requirements for lightweight concrete.

C. CONCRETE MASONRY:

1. First & second coat - Cuprinol Clear Wood Preservative #158-0356 all penetrations into

2. Curious - Primer - ProMar Exterior Block Filler

3. Preprimed steel

4. Concrete stucco (Existing)

5. Compression strength 4000 psi at 28 Days. Slump: 3 inches.

D. CONCRETE STUCCO (EXISTING):

1. 2 coats A-100 latex house & trim, sheen to match

2. Prepainted steel

3. Aluminum & Copper

4. Stainless steel

5. Corrugated steel

E. CONCRETE STUCCO:

1. First & second coat - Cuprinol Clear Wood Preservative #158-0356 all penetrations into

2. Primer - Kem Aqua E61-W525

3. Topcoat - Gavmzil Metal

4. Primer - Gavmzil Metal

5. Topcoat - Corothane II B65W200/B60V2

F. GROUNDING NOTES:

1. MAST & WASHERS SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.

2. ALL GROUNDING BARS MAY BE STACKED ON TOP OF THE TOWER, ANCHOR, AND ORprehension, and connection, orientation, provide as required.

3. ALL ELECTRICAL AND CONDUCTORS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) THE LATEST EDITION, NEW MEXICO BUILDING STANDARDS CODE AND THE LOCAL BUILDING CODES.

4. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

5. CONTRACTOR SHALL CLEAN ENTER SITE AFTER CONSTRUCTION SUCH THAT NO PAPER, TRASH, WOOD, BRICK, OR OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEARING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.

G. FIRE DEPARTMENT NOTES:

1. IF FIRE DEPARTMENT FINAL INSPECTION IS REQUIRED, SCHEDULE INSPECTION 2 DAYS IN ADVANCE.

2. ALL WORK SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

3. ALL WORK SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

4. ALL WORK SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

5. ALL WORK SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

H. REFERENCED DOCUMENTS:

1. CONSTRUCTION DRAWINGS: 11/23/02 B/O - B/O GROUP

2. SCOPE OF WORK: 04/18/02 (DATE OF REFERENCE SPREADSHEET)

3. SITE VISIT: 11/19/01

I. JOHN M. BANKS ARCHITECT

J. FIRSTNET

K. AT&T

L. TELCO TELEPHONE: 847.277.0070

M. NEW MEXICO INTERNATIONAL: FIRE CODE, RF

N. ATTENDANCE REQUIRED FOR REVIEW

O. REVISED

P. INITIALS

Q. DATE

R. FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356 ALL PENETRATIONS INTO

S. COMPRESSED AIR SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT
DSW (DESERT SOUTHWEST)

COLOR CODE REPRESENTS ALPHA SECTOR, FIRST MAIN LINE - RED, WITH LTE700, WGS, AWS, PCS

TECHNOLOGY COLOR CODE

SECTOR COLORS

ALPHA BROWN

BETTA BLUE

GAMMA GREEN

DELTA BROWN

SECTOR / TECHNOLOGY

1690 UNITS LTE3G

1690 UNITS LTE6G

1900 PCS LTE6G

2000 PCS LTE6G

DUAL BAND 6G

DUAL BAND 6G

SPLIT SECTOR

I BROWN STRIPE - SPLIT SECTOR

TECHNOLOGY JUMPER

QUADPLUG PORT

TAPE BAND COLOR ON MAIN NET COAX

08/04/20

08/26/20

09/02/20

09/24/20

10/04/20

T-3.0

SECTOR COLOR CODE

DSW (DESERT SOUTHWEST)
## COMMNET COLOR CODE

### Cable Color Code Schedule

<table>
<thead>
<tr>
<th>Technology</th>
<th>Cable Type</th>
<th>Tape Color</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTE</td>
<td>Power Truck</td>
<td>1 Orange Wrap</td>
<td>Additional Power or Fiber Trunks for LTE, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>LTE</td>
<td>Fiber Truck</td>
<td>1 Orange Wrap</td>
<td>Additional Power or Fiber Trunks for LTE, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>GSM/UMTS</td>
<td>Power Truck</td>
<td>1 Yellow Wrap</td>
<td>Additional Power or Fiber Trunks for GSM/UMTS, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>GSM/UMTS</td>
<td>Fiber Truck</td>
<td>1 Yellow Wrap</td>
<td>Additional Power or Fiber Trunks for GSM/UMTS, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>CDMA/EVDO</td>
<td>Power Truck</td>
<td>1 Green Wrap</td>
<td>Additional Power or Fiber Trunks for CDMA, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>CDMA/EVDO</td>
<td>Fiber Truck</td>
<td>1 Green Wrap</td>
<td>Additional Power or Fiber Trunks for CDMA, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>UMTS</td>
<td>Power Truck</td>
<td>1 Purple Wrap</td>
<td>Additional Power or Fiber Trunks for UMTS, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>UMTS</td>
<td>Fiber Truck</td>
<td>1 Purple Wrap</td>
<td>Additional Power or Fiber Trunks for UMTS, Add 1 Additional Wrap</td>
</tr>
<tr>
<td>EVDO</td>
<td>Power Truck</td>
<td>1 White Wrap</td>
<td>Additional Power or Fiber Trunks for DO, Add 1 Additional Wrap</td>
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<tr>
<td>EVDO</td>
<td>Fiber Truck</td>
<td>1 White Wrap</td>
<td>Additional Power or Fiber Trunks for DO, Add 1 Additional Wrap</td>
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</table>

### Technology Cable Type

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Color</th>
<th>Technology</th>
<th>Cable Type</th>
<th>Tape Color</th>
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</thead>
<tbody>
<tr>
<td>700</td>
<td>Black/Blank</td>
<td>LTE</td>
<td>RET</td>
<td>1 Orange + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)</td>
</tr>
<tr>
<td>700</td>
<td>Black/Blank</td>
<td>GSM/UMTS</td>
<td>RET</td>
<td>1 Yellow + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)</td>
</tr>
<tr>
<td>1900</td>
<td>Brown</td>
<td>CDMA/EVDO</td>
<td>RET</td>
<td>1 White + Sector (additional sector wrap for each additional sector wrap, first wrap starts at the RRU)</td>
</tr>
</tbody>
</table>

### Example: Color Code for LTE for 700 MHz Power or Fiber Trunk - 1 Orange Wrap, 1 Black or Leave Blank (cable color is already black)

### Example: Color Code for GSM/UMTS for 850 MHz Power or Fiber Trunk - 1 Yellow Wrap, 1 Grey
SURVEY OF EXISTING SITE
PROPOSED RAG CENTER @ 46'-0"
PROPOSED COMMNET EQUIPMENT PLAN

PROPOSED ALPHA SECTOR @ 350°

PROPOSED BETA SECTOR @ 230°

1/4"=1'-0" (11x17)

SCALE:

(OR)

1/2"=1'-0" (22x34)

NEW 62'-0" MONOPINE TOWER ON NEW CONCRETE FOOTING

EXISTING RELOCATED COMMNET ANTENNAS, (2) TOTAL, (1) PER SECTOR (TYP. ALL SECTORS)

EXISTING RELOCATED COMMNET RADIOS, (4) TOTAL, (2) PER SECTOR (TYP. ALL SECTORS)

PROPOSED COMMNET SECTOR MOUNT BY VALMONT P/N: VFA10-RRU3L4NP, (2) TOTAL, (1) PER SECTOR (TYP. ALL SECTORS)

EXISTING RELOCATED COMMNET FIBER/DC & COAX CABLES

EXISTING COMMNET EQUIPMENT ON EXISTING METAL PLATFORM WITH CONCRETE BLOCKS

EXISTING COMMNET FIBER EQUIPMENT CABINET (AT&T FIBER P.O.C.) (VIF)

EXISTING COMMNET H-FRAME W/EQUIPMENT

EXISTING COMMNET FTTH BOX, (1) TOTAL.

EXISTING COMMNET EQUIPMENT PLAN

PROPOSED COMMNET ANTENNA PLAN

PROPOSED ALPHA SECTOR @ 350°

PROPOSED BETA SECTOR @ 230°

NEW 62'-0" MONOPINE TOWER ON NEW CONCRETE FOOTING

EXISTING RELOCATED COMMNET ANTENNAS, (2) TOTAL, (1) PER SECTOR (TYP. ALL SECTORS)

EXISTING RELOCATED COMMNET RADIOS, (4) TOTAL, (2) PER SECTOR (TYP. ALL SECTORS)

PROPOSED COMMNET SECTOR MOUNT BY VALMONT P/N: VFA10-RRU3L4NP, (2) TOTAL, (1) PER SECTOR (TYP. ALL SECTORS)

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EXISTING COMMNET FIBER EQUIPMENT CABINET (AT&T FIBER P.O.C.) (VIF)

EXISTING COMMNET H-FRAME W/EQUIPMENT

EXISTING COMMNET FTTH BOX, (1) TOTAL.
**ESOF020-HCV02**

**2-Bay Walk Upto Cabinet (WUC)**

**Product Features**

- Sealed Multi-bay Equipment and Power Compartment
- Sealed Battery Compartment
- Corrosion Resistant Aluminum enclosure
- Thermo-siphon HEX cooling
- R6 Thermal Insulation Material
- Attachment Rails for AC Load Center
- Rear Access Hatches
- Optional Dual GPS Antenna Mount

---

**Specifications**

**Model:** ESOF020-HCV02 Walk Upto Cabinet (WUC)

**1. General**

- System cooling capacity: 2.6kW Equip Heat Load with Equip Instl <55C @ 46C ambient
- Dimensions (W x D x H): 689” x 42” D (50” including HEX) x 80” (add 6” plinth)
- Protection class: NEMA4
- Door latches: 3 point latches (can be pad locked)
- Ground bar: 2ea 10-positions
- Lifting Mechanism: 4 lifting brackets
- Equipment Compartments:
  - Bay 1: 22”, 19RU for DC Power System and PDU
  - Bay 2: 23”, 44RU for equipment
- Battery Compartments:
  - Shelves for 3 string batteries, designed for:
    - GNB Marvich M12V180FT
    - Enersys 55/190F
    - Enersys 55/170F
- Weight: 1680 lbs (Batteries, Power System and Load Equipment excluded)
- Materials: Enclosure Aluminum AL5052, inner frames Galvanized steel
- Finish: Powder Paint RAL 7032
- Safety: UL/CSA LISTED pending

**2. Equipment**

- Operating temperature: -40°C to +50°C (-40°F to +122°F)
- Storage temperature: -40°C to +75°C (-40°F to +167°F)
- Acoustics: 65 dBA @ 400 equipment inlet, 75 dBA @ 55C equipment inlet
- Humidity (relative): 95%, non-condensing (Max)

**3. Electrical Equipment**

- Cooling system: Equipment compartment: 2 200W/h/K Thermoshop HEX
- Heating system: Equipment compartment: 2 1500W DC heaters

**4. Equipment**

- Arranged for third-party equipment:
  - DC Power System (not provided)
  - Batteries (not provided)
- Cable Entry:
  - AC Cable: (2) Trade Size 2” ports
  - Bottom Cable: Arranged for (3) Recessed E/Entry 24/24 multi-port (not provided)
  - Upper Rear: Arranged for (2) Single E/Entry 18/16 multi-port (not provided)
- Lower Rear: Arranged for (2) Single E/Entry 18/16 multi-port (not provided)

**5. Optional Items**

- NEQ 101015 – Dual GPS Antenna Mast Kit (Delta 3794100742-S)

**6. Ordering information**

- System: NEQ 201201-Cabinet-2-Bay-2-HEX (Delta ESOF020-HCV02)

*All specifications are subject to change without prior notice.*
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Connecting Rural America

“I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND THAT I AM DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF NEW MEXICO”

5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com

PROPOSED 3-1/2" OD GALV. PIPE

PROPOSED 3-1/2" OD GALV. PIPE

PROPOSED 3-1/2" OD GALV. PIPE

EQUIPMENT DETAILS & SPECIFICATIONS

A-4.2

PER PLAN

(6' -0" MAX)
FIBER TRENCH

- Restore surface material to original condition after installation of utilities.
- Grade surface to level undisturbed soil.
- Backfill earth to 90% relative compaction per ASTM D1557.
- Utility warning tape entire length of conduit run.
- Backfill sand or native soil with sand equivalent greater than 30 compact to 90% relative compaction per ASTM D1557.
- 1" PVC SCH 40 fiber conduit where applicable (or PVC sizing as req'd per cable size).

POWER TRENCH

- Restore surface material to original condition after installation of utilities.
- Grade surface to level undisturbed soil.
- Backfill earth to 90% relative compaction per ASTM D1557.
- Utility warning tape entire length of conduit run.
- Backfill sand or native soil with sand equivalent greater than 30 compact to 90% relative compaction per ASTM D1557.
- 3" PVC SCH 40 electrical conduit where applicable (or PVC sizing as req'd per power provider design).

DUAL UTILITY TRENCH

- Restore surface material to original condition after installation of utilities.
- Grade surface to level undisturbed soil.
- Backfill earth to 90% relative compaction per ASTM D1557.
- Utility warning tape entire length of conduit run.
- Backfill sand or native soil with sand equivalent greater than 30 compact to 90% relative compaction per ASTM D1557.
- 1" PVC SCH 40 fiber conduit where applicable (or PVC sizing as req'd per cable size).
- 3" PVC SCH 40 electrical conduit where applicable (or PVC sizing as req'd per power provider design).
**ANTENNA AMPHENOL ANTEL BXA-185063/12CF**

**EQUIPMENT DETAILS & SPECIFICATIONS**

**Manufacturer:** ZTE

**Model:** ZXSDR - R8882 (2*60W)

**Mechanical specifications**

- **Length:** 914 mm - 36.0 in
- **Width:** 154 mm - 6.0 in
- **Depth:** 156 mm - 6.1 in
- **Weight:** 6.4 kg - 14.1 lbs

**Radiation patterns**

- **Horizontal:**
  - **Gain:** 11.5 dBi
  - **Pattern:** Uniform
- **Vertical:**
  - **Gain:** 12.0 dBi
  - **Pattern:** Uniform

- **Antenna mounting frame (Valmont part #: VFA10-RRU3L4NP)**
  - **Material:** Steel
  - **Dimensions:** 18.9" x 12.6" x 5.1" (480 x 320 x 150 mm)

- **U-bolt (HDG.), Typ.:**
  - **Size:** 5/8" x 2-5/8" x 4-1/2" x 2"
  - **Pitch:** 5-3/4" center to center

- **Sling pipe tie (back plate):**
  - **Material:** Steel
  - **Dimensions:** 1/2" x 126" (2 SCH 40) Galv. pipe

- **Support arm for standard duty V-frame assembly:**
  - **Material:** Steel
  - **Dimensions:** 2-3/8" x 126" (2 SCH 40) Galv. pipe

- **Amphenol's Bowtie III (Dip Transmission Line Technology):**
  - **Gain:** 10.5 dBi
  - **Pattern:** Uniform

**Electrical specifications**

- **Frequency Range:** 1850-1990 MHz
- **Input Impedance:** 75 Ohm
- **VSWR:** 1.4:1
- **Isolation Between Ports:** 50 dB
- **Gain:** 11.5 dBi
- **Power Rating:** 200 W
- **Half Power Angle:** 80°
- **E-Plane:** 2°
- **H-Plane:** 2°
- **Freesat:** 6°
- **Polarization:** Linear Vertical

**Connection ports:**

- **NTS RADIO ZTE ZXSDR R8882**

**Notes:**

- Hardware and clearances are specific to the equipment and notional layout.
- The antenna is designed for dual-band operation.
- The mounting frame is designed for ease of installation and maintenance.

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**Firstnet Jemez Springs NML02659A**

17816 Highway 4
Jemez Springs, NM 87025

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**Connecting Rural America**

5015 Shoreham Place, Suite 150
San Diego, CA 92122

---

**FirstNet Jemez Springs NML02659A**

17816 Highway 4
Jemez Springs, NM 87025

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**Amphenol Antenna Inc.**

1230 Capital Drive
Roswell, IL 60019

---

**Radio ZTE ZXSDR R8882**

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**Western Electric Services**

604 Fox Glen
Barrington, IL 60010

---

**FirstNet Jemez Springs NML02659A**

17816 Highway 4
Jemez Springs, NM 87025

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**ComNet Equipment Details & Specifications**

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**Commnet VFA10-RRU3L4NP**

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**Commnet VFA10-RRU3L4NP**

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**Commnet VFA10-RRU3L4NP**

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**Commnet VFA10-RRU3L4NP**

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**Commnet VFA10-RRU3L4NP**
<table>
<thead>
<tr>
<th>Antenna Number</th>
<th>Antenna 1</th>
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<tbody>
<tr>
<td>Address Location</td>
<td>4985 E 280 Rd</td>
<td>4985 E 280 Rd</td>
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<tr>
<td>Antenna Model</td>
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</tr>
<tr>
<td>Antenna Manufacturer</td>
<td>Antenna 1</td>
<td>Antenna 2</td>
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<tr>
<td>Antenna Type (Low Loss)</td>
<td>Antenna 1</td>
<td>Antenna 2</td>
</tr>
<tr>
<td>LTE Coax</td>
<td>100</td>
<td>100</td>
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<tr>
<td>Antenna Gain (dBi)</td>
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<td>Antenna Active</td>
<td>Antenna 1</td>
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<td>EIRP / IBRG Cooling &amp; Heating</td>
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<td>TNR Value</td>
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</tbody>
</table>

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### Sector Information

Note that all post-specific and site-specific information will be on each site in a Placing Diagram.

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### Diagram Notes

- Antenna and equipment details are for reference only. The bandwidth of the antenna is 95 MHz or less.
- Diagram shows reference only.
- Diagram is for reference only.
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NEW #2 AWG TINNED INSULATED GREEN STRANDED COPPER WIRE TO TOP TOWER BUS BAR, TYP.

NEW #2 TINNED CABLED TO GROUND RING

NEW GROUND ROD (SPACED 12'-0" MIN.), TYP.

NEW CAD WELDS AT GROUND BAR

NEW EQUIPMENT BUS BAR ON INSULATORS, TYP.

NEW CAD WELD CONNECTION, TYP.

NEW MECHANICAL CONNECTION, TYP.

NEW GROUND ROD WITH TEST WELL, TYP.

NEW #2 STRANDED CABINET TO GROUND BAR WITH 3/4"Ø NON-METALLIC SEAL TIGHT

INTEGRATED GROUND BAR ON PROPOSED ANTENNA MOUNT, TYP.

NEW #2 AWG Wire GREEN INSULATED COPPER WIRE TO BOTTOM TOWER GROUND BAR, TYP.

NEW EQUIPMENT BUS BAR W/ INSULATORS, TYP.

NEW MECHANICAL CONNECTION, TYP.

NEW ANTENNA BUS BAR W/ INSULATORS, TYP.

NEW ANTENNA BUS BAR FOR METER

NEW #2 TINNED CADWELD TO GROUND RING

NEW CADWELD CONNECTION, TYP.

NEW #2 STRANDED CABINET TO GROUND BAR WITH 3/4"Ø NON-METALLIC SEAL TIGHT

NEW #2 SHORN BARE BAR WITH 3/4"Ø NON-METALLIC SEAL TIGHT

NEW EQUIPMENT BUS BAR ON INSULATORS, TYP.

NEW MECHANICAL CONNECTION, TYP.

NEW GROUND ROD WITH TEST WELL, TYP.

NEW CAD WELD CONNECTION, TYP.
NEW #2 AWG THHN INSULATED GREEN STRANDED COPPER WIRE, TYP.
NEW MECHANICAL CONNECTION, TYP.
INTEGRATED GROUND BAR ON PROPOSED ANTENNA MOUNT, TYP.
NEW #2 AWG THHN INSULATED GREEN STRANDED COPPER WIRE TO BOTTOM TOWER GROUND BAR, TYP.
NEW GROUND ROD WITH TEST WELL, TYP.
NEW #2 AWG THHN INSULATED GREEN STRANDED COPPER WIRE TO TOP TOWER BUS BAR, TYP.
NEW ANTENNA BUS BAR W/ INSULATORS, TYP.
NEW #2 TINNED CADWELDED TO GROUND RING
NEW #2 AWG THHN INSULATED GREEN STRANDED COPPER WIRE, TYP.
NEW CADWELD CONNECTION, TYP.
NEW GROUND ROD (SPACED IF 4'-6" MIN.), TYP.
NEW CADWELD CONNECTION, TYP.
NEW #2 TINNED CADWELDED TO GROUND RING
NEW GROUND ROD WITH TEST WELL, TYP.
NEW #2 AWG THHN INSULATED GREEN STRANDED COPPER WIRE TO TOP TOWER BUS BAR, TYP.
NEW ANTENNA BUS BAR W/ INSULATORS, TYP.
NEW GROUND ROD (SPACED IF 4'-6" MIN.), TYP.
NEW #2 TINNED CADWELDED TO GROUND RING
NEW GROUND ROD WITH TEST WELL, TYP.
NEW #2 AWG THHN INSULATED GREEN STRANDED COPPER WIRE TO TOP TOWER BUS BAR, TYP.
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NEW GROUND ROD (SPACED IF 4'-6" MIN.), TYP.
NEW #2 TINNED CADWELDED TO GROUND RING
NEW GROUND ROD WITH TEST WELL, TYP.
GENERAL GROUNDING NOTES

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.

2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS, FOLLOW ANTENNA AND BTS MANUFACTURES PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELDS AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.

3. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.

4. GROUND TEST MUST PASS LESS THAN 5 OHMS AND SUBMIT IN CLOSEOUT PACKAGE.

5. CONTRACTOR TO ABIDE BY ALL AT&T SAFETY STANDARDS DURING SITE CONSTRUCTION.

6. CONTRACTOR SHALL REFER TO AT&T STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.

7. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.

8. GROUNDING ROD NOTES (WHERE APPLICABLE)

9. ELECTRICAL CONTRACTOR SHALL PERFORM AND PROVIDE THE GROUND RESISTANCE TESTING WITH AN APPROVED EQUIPMENT DEVICE THAT HAS A CURRENT CALIBRATION. TEST RESULTS SHALL NOT EXCEED 5 OHMS.