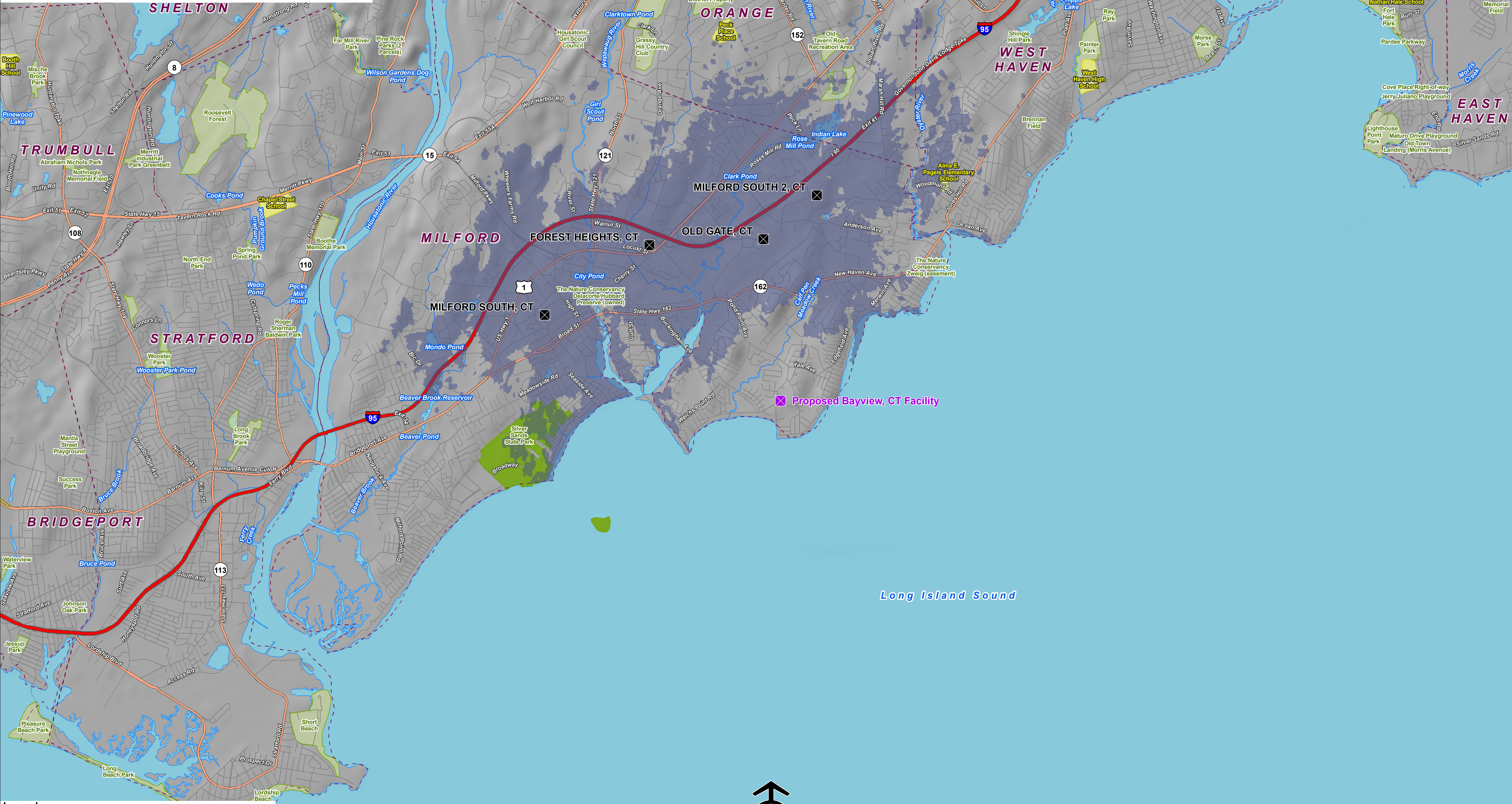


**Existing Verizon Wireless PCS Coverage  
Milford, Connecticut and Surrounding Area  
(\*Map Scale is 1:30,000)**

Coverage plot assumes 55% site loading on the Cellco system



**Legend**

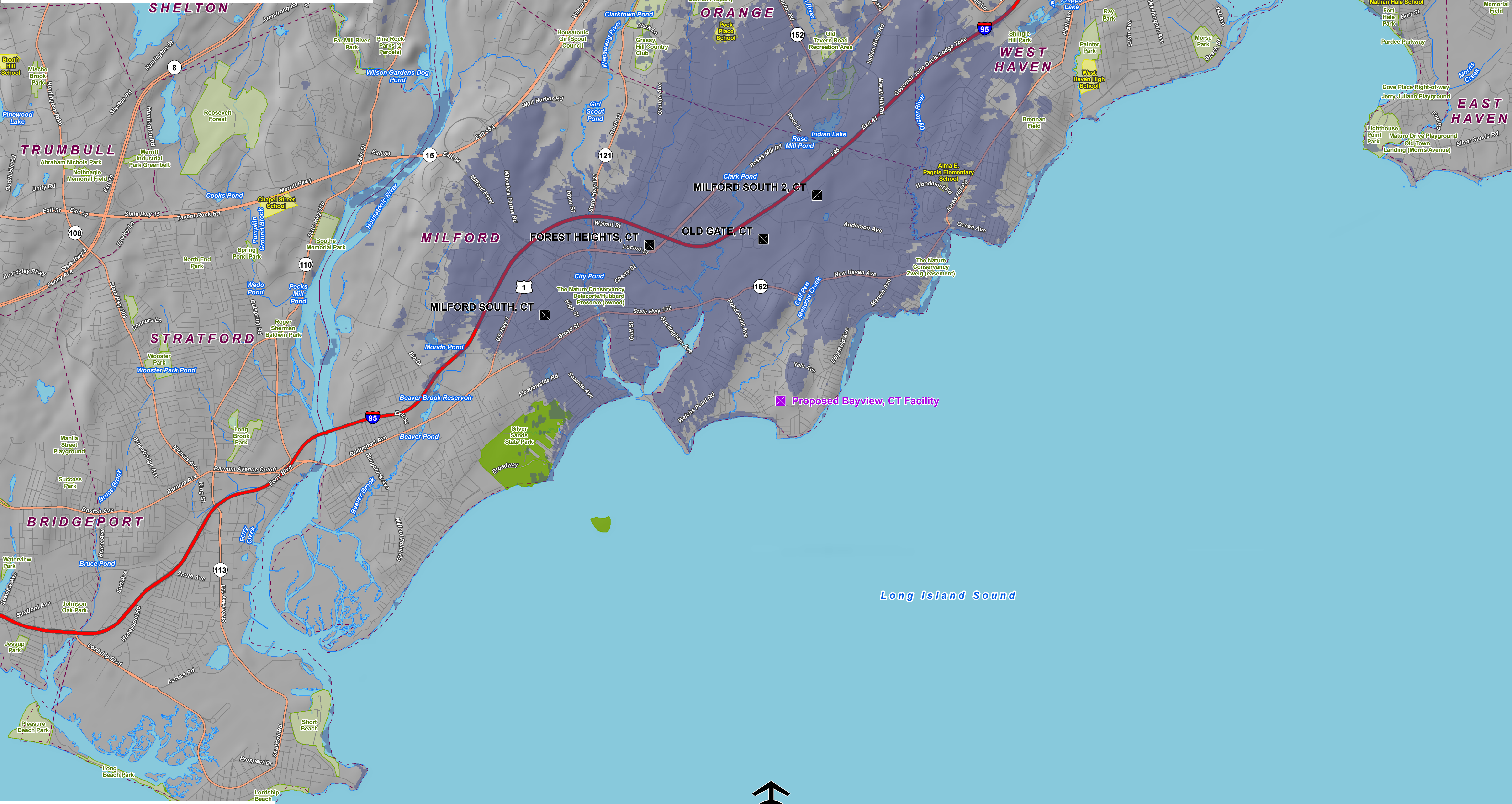
- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless PCS Coverage
- Municipal and Private Open Space
- School
- State Forest/Park
- Town Line
- Open Water

*\*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.*



**Existing Verizon Wireless Cellular Coverage  
Milford, Connecticut and Surrounding Area  
(\*Map Scale is 1:30,000)**

Coverage plot assumes 55% site loading on the Cellco system



**Legend**

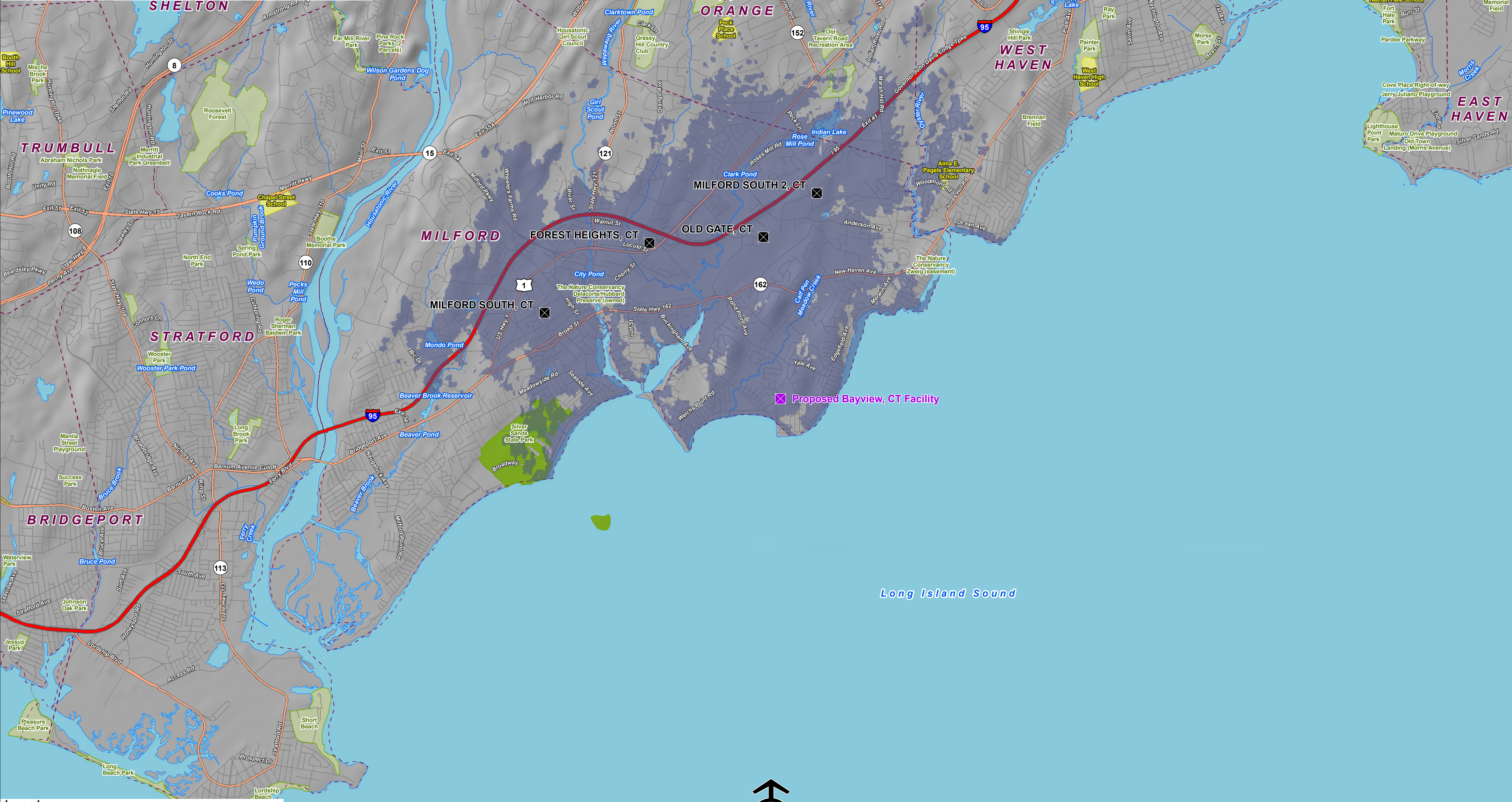
- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Existing Verizon Wireless Cellular Coverage
- Municipal and Private Open Space
- School
- State Forest/Park
- Town Line
- Open Water

*\*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.*



**Existing Verizon Wireless PCS Coverage  
With Proposed Antennas At 130 Feet AGL  
Milford, Connecticut and Surrounding Area  
(\*Map Scale is 1:30,000)**

Coverage plot assumes 55% site loading on the Cellco system



**Legend**

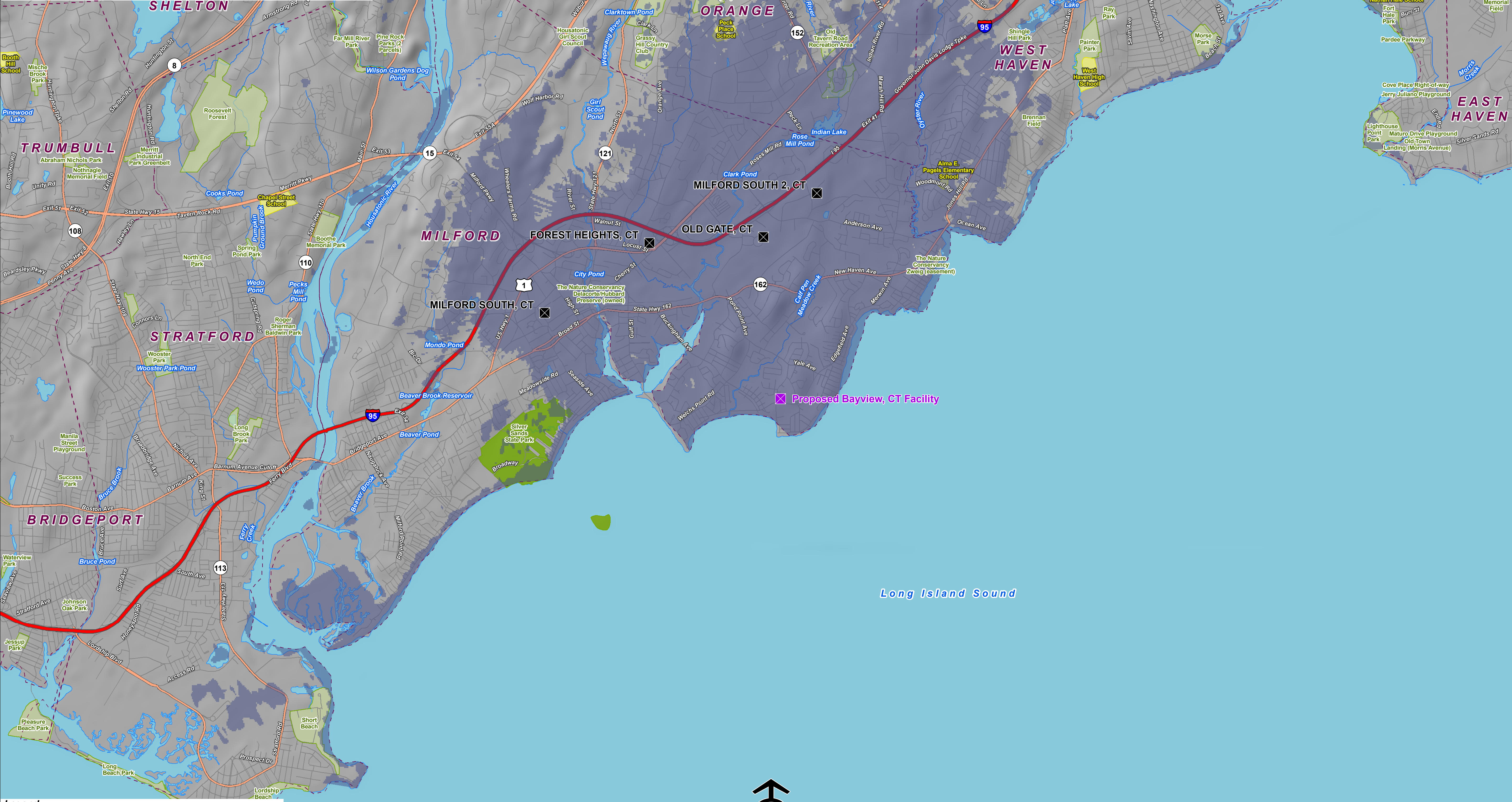
- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Proposed Verizon Wireless PCS Coverage
- Municipal and Private Open Space
- School
- State Forest/Park
- Town Line
- Open Water

*\*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.*



**Existing Verizon Wireless Cellular Coverage  
With Proposed Antennas At 120 Feet AGL  
Milford, Connecticut and Surrounding Area  
(\*Map Scale is 1:30,000)**

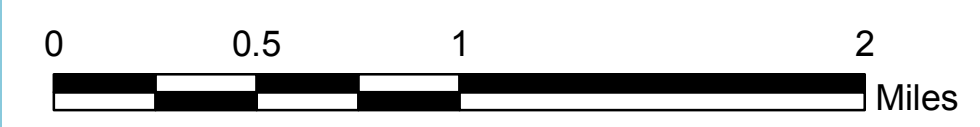
Coverage plot assumes 55% site loading on the Cellco system



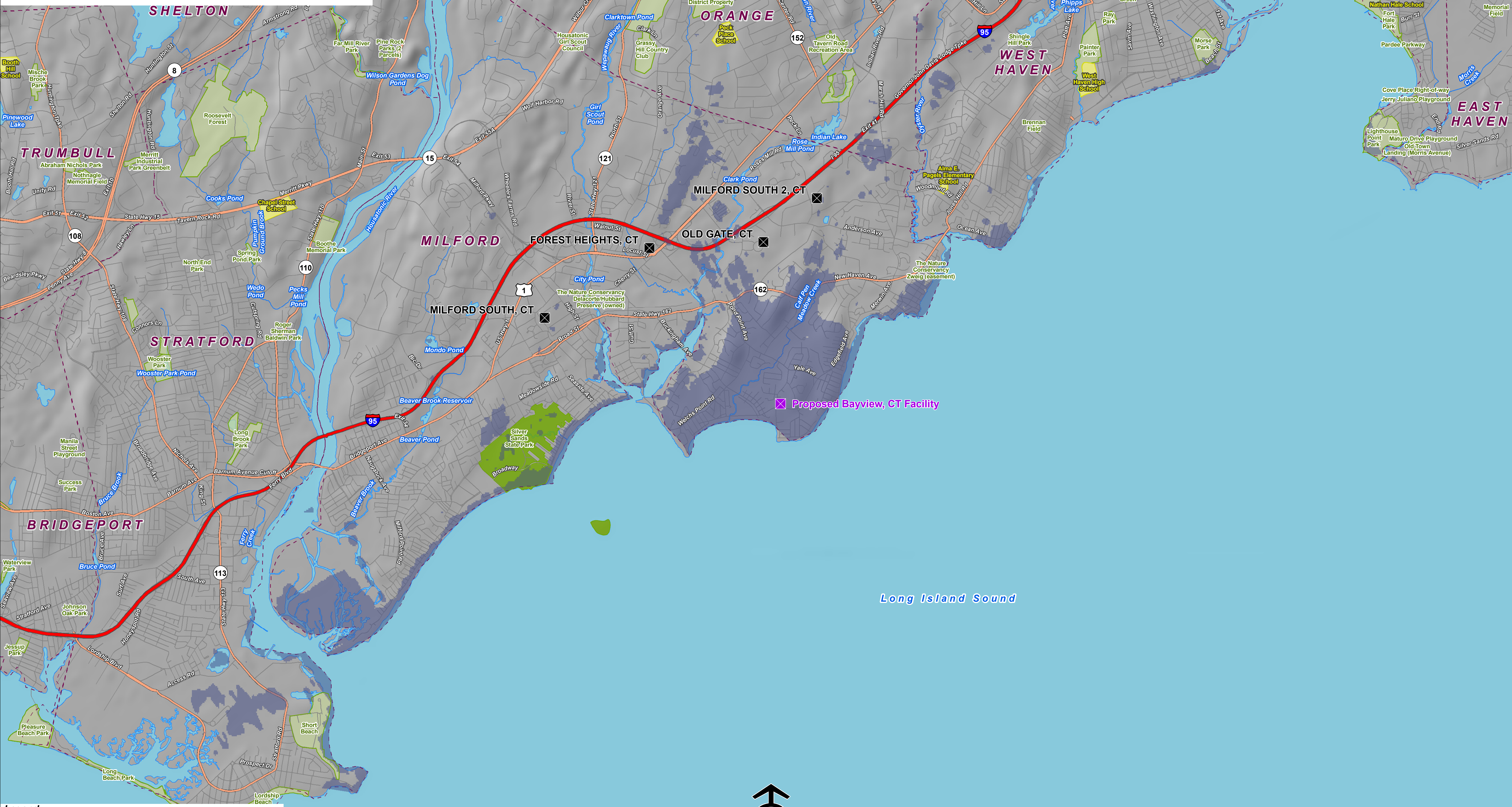
**Legend**

- ✕ Proposed Verizon Wireless Facility
- ✕ Existing Verizon Wireless Facilities
- Proposed Verizon Wireless Cellular Coverage
- Municipal and Private Open Space
- School
- State Forest/Park
- Town Line
- Open Water

*\*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.*



**Proposed Verizon Wireless LTE (700 MHz) Coverage  
With Proposed Antennas At 110 Feet AGL  
Milford, Connecticut and Surrounding Area  
(\*Map Scale is 1:30,000)  
Coverage plot assumes 55% site loading on the Cellco system**



**Legend**

- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- Verizon Wireless LTE Coverage
- Municipal and Private Open Space
- School
- State Forest/Park
- Town Line
- Open Water

*\*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.*





# SINGLE-BAND PANEL ANTENNA

BROADBAND 1700-2170 MHz

## MGD3-800TX

| 1710-1880                        | 1850-1990                        | 1920-2170                        |
|----------------------------------|----------------------------------|----------------------------------|
| H66° V7.2°                       | H64° V6.6°                       | H63° V6.3°                       |
| Fixed Tilt<br>0°, 2°, 4°, 6°, 0° | Fixed Tilt<br>0°, 2°, 4°, 6°, 0° | Fixed Tilt<br>0°, 2°, 4°, 6°, 0° |

### ELECTRICAL SPECIFICATIONS

BROADBAND 1710-2170 MHz

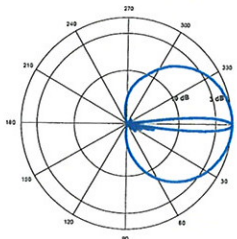
| Antenna Model   | MGD3-800TX              |                         |                         |
|---|-------------------------|-------------------------|-------------------------|
| Polarization  | ± 45°                   |                         |                         |
| Frequency   | 1710 - 1880             | 1850 - 1990             | 1920 - 2170             |
| Horizontal Beamwidth  | 66°                     | 64°                     | 63°                     |
| Vertical Beamwidth  | 7.2°                    | 6.6°                    | 6.3°                    |
| Gain (dBi)  | 17.9                    | 18                      | 18.5                    |
| Vertical Electrical Tilt  | FIXED<br>0°, 2°, 4°, 6° | FIXED<br>0°, 2°, 4°, 6° | FIXED<br>0°, 2°, 4°, 6° |
| Upper Sidelobe Suppression<br>for the 1 <sup>st</sup> lobe above main beam (dB) | 20                      | 20                      | 20                      |
| Front-to-Back Ratio /Cpol @ ± 20° (dB)  | > 30                    | > 30                    | > 30                    |
| VSWR  | < 1.4 : 1               | < 1.4 : 1               | < 1.4 : 1               |
| Cross Polar Ratio @ ± 60° (dB)  | > 10                    | > 10                    | > 10                    |
| Isolation Between Ports (dB)  | > 30                    | > 30                    | > 30                    |
| Maximum Power Per Input (W)   | 250                     |                         |                         |
| Intermodulation (dBc)   | < - 150                 |                         |                         |
| Impedance (Ω)   | 50                      |                         |                         |

### MECHANICAL SPECIFICATIONS

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Connectors                          | 2 X 7/16 Female                       |
| Connector Position                  | Bottom                                |
| Survival Wind Speed mph (km/h)      | 124 (200)                             |
| Front Windload lbs (N) @ 160 km/h   | 83 (370)                              |
| Lateral Windload lbs (N) @ 160 km/h | 38 (170)                              |
| Radome Color                        | Grey, paintable                       |
| Temperature Range F (°C)            | -67° to 140° (-55° to +60°)           |
| Humidity                            | 100%                                  |
| Antenna Weight lbs (kg)             | 15.43 (7)                             |
| Antenna Dimension in (mm) H X W X D | 53 X 6.29 X 3.54<br>(1340 X 160 X 90) |



H&V Pattern



RYMSA Telecom Group (Headquarters)

15000 E. Irving Ave.  
Denver, CO 80231  
USA

Phone: +1 303 751 1212

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www.rymsawireless.com



www.rymsawireless.com

RYMSA México: Blvd. de la Independencia 100, Col. Centro, CDMX, México, D.F. 06000

Phone: +52 55 1 102 1212

RYMSA Wireless U.S.A.: 5000 E. Irving Ave., Denver, CO 80231, USA

Phone: +1 303 751 1212

# BXA-80063-6CF-EDIN-X

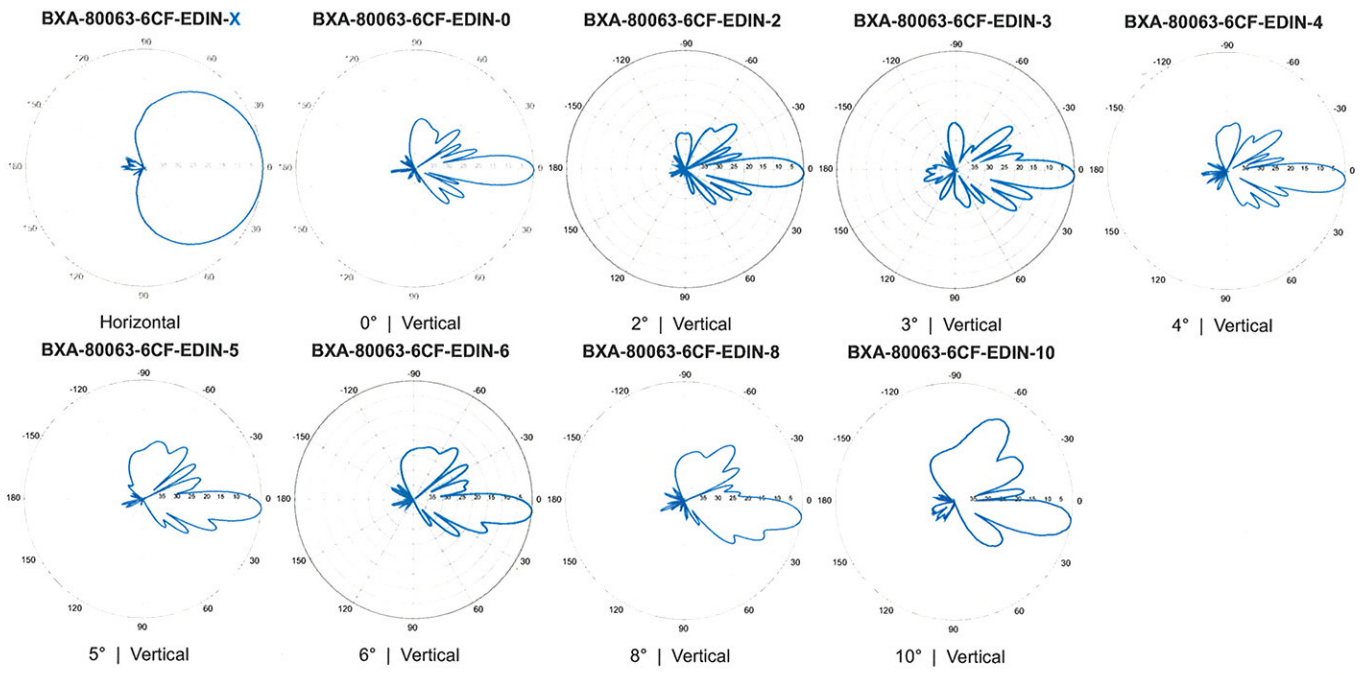
X-Pol | FET Panel | 63° | 14.5 dBd

Replace "X" with desired electrical downtilt.

Antenna is also available with NE connector(s). Replace "EDIN" with "NE" in the model number when ordering.



| Electrical Characteristics           |   |   |
|--------------------------------------|---|---|
| Frequency bands                      | 806-900 MHz*  |   |
| *Optional frequency band for iDEN    | 806-941 MHz (specify when ordering)   |   |
| Polarization                         | ±45°  |   |
| Horizontal beamwidth                 | 63°   |   |
| Vertical beamwidth                   | 11°   |   |
| Gain                                 | 14.5 dBd (16.6 dBi)   |   |
| Electrical downtilt (X)              | 0, 2, 3, 4, 5, 6, 8, 10   |   |
| Impedance                            | 50Ω   |   |
| VSWR                                 | ≤1.4:1  |   |
| Upper sidelobe suppression (0°)      | -18.2 dB  |   |
| Front-to-back ratio (+/-30°)         | -36.3 dB  |   |
| Null fill                            | 5% (-26.02 dB)  |   |
| Isolation between ports              | < -25 dB  |   |
| Input power                          | 500 W   |   |
| Lightning protection                 | Direct Ground   |   |
| Connector(s)                         | 2 Ports / EDIN or NE / Female / Center (Back)   |   |
| Mechanical Characteristics           |   |   |
| Dimensions Length x Width x Depth    | 1804 x 285 x 132 mm      71.0 x 11.2 x 5.2 in   |   |
| Depth with z-brackets                | 172 mm      6.8 in  |   |
| Weight without mounting brackets     | 7.9 kg      17 lbs  |   |
| Survival wind speed                  | > 201 km/hr      > 125 mph  |   |
| Wind area                            | Front: 0.51 m <sup>2</sup> Side: 0.24 m <sup>2</sup> Front: 5.5 ft <sup>2</sup> Side: 2.6 ft <sup>2</sup> |   |
| Wind load @ 161 km/hr (100 mph)      | Front: 759 N    Side: 391 N      Front: 169 lbf    Side: 89 lbf   |   |
| Mounting Options                     |   |   |
| Part Number                          | Fits Pipe Diameter  | Weight  |
| 3-Point Mounting Bracket Kit         | 36210003  | 50-160 mm    2.0-6.3 in      6.3 kg    14 lbs |
| 3-Point Downtilt Bracket Kit (0-14°) | 36210004  | 50-160 mm    2.0-6.3 in      7.3 kg    16 lbs |
| Downtilt Mounting Applications       | A mounting bracket and downtilt bracket kit must be ordered for downtilt applications                     |   |
| Concealment Configurations           | For concealment configurations, order BXA-80063-6CF-EDIN-X-FP   |   |



Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

# Slant $\pm 45^\circ$ Dual Polarized FET Panel $63^\circ$ / 14.5 dBd 696-900 MHz

## Mechanical specifications

|                                 |                     |                     |
|---------------------------------|---------------------|---------------------|
| Length                          | 1804 mm             | 71.0 in             |
| Width                           | 285 mm              | 11.2 in             |
| Depth                           | 114 mm              | 4.5 in              |
| Depth with z-bracket            | 154 mm              | 6.1 in              |
| Weight <sup>4)</sup>            | 7.9 kg              | 17.0 lbs            |
| Wind Area Fore/Aft              | 0.51 m <sup>2</sup> | 5.5 ft <sup>2</sup> |
| Wind Area Side                  | 0.21 m <sup>2</sup> | 2.2 ft <sup>2</sup> |
| Max Wind Survivability          | >201 km/hr          | >125 mph            |
| Wind Load @ 100 mph (161 km/hr) |                     |                     |
| Fore/Aft                        | 753 N               | 169 lbf             |
| Side                            | 351 N               | 79 lbf              |

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

## Mounting & Downtilting

Mounting hardware attaches to pipe diameter  $\varnothing 50$ -160 mm;  $\varnothing 2.0$ -6.3 in

|                      |          |
|----------------------|----------|
| Mounting Bracket Kit | 36210002 |
| Downtilt Bracket Kit | 36114003 |

## Electrical specifications

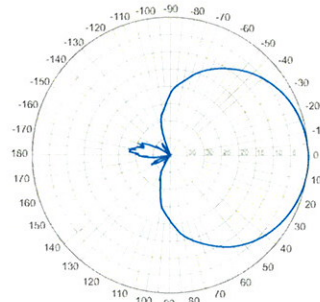
|                                       |  |
|---------------------------------------|--|
| Frequency Range                       | 696-900 MHz                            |
| Impedance                             | 50 $\Omega$                            |
| Connector <sup>3)</sup>               | NE or E-DIN Female<br>2 ports / Center |
| VSWR <sup>1)</sup>                    | $\leq 1.35:1$                          |
| Polarization                          | Slant $\pm 45^\circ$                   |
| Isolation Between Ports <sup>1)</sup> | < -25 dB                               |
| Gain <sup>1)</sup>                    | 14.5 dBd<br>16.5 dBi                   |
| Power Rating <sup>2)</sup>            | 500 W                                  |
| Half Power Angle <sup>1)</sup>        |  |
| Horizontal Beamwidth                  | 63 $^\circ$                            |
| Vertical Beamwidth                    | 11 $^\circ$                            |
| Electrical downtilt <sup>5)</sup>     | 0 $^\circ$                             |
| Null fill <sup>1)</sup>               | 5%                                     |
| Lightning protection                  | Direct ground                          |

Patented Dipole Design: U.S. Patent No. 6,608,600 B2

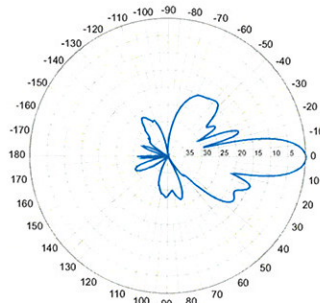
- 1) Typical values.
- 2) Power rating limited by connector only.
- 3) NE indicates an elongated N connector. E-DIN indicates an elongated DIN connector.
- 4) Antenna weight does not include brackets.
- 5) Add'l downtilts may be available. Check website for details.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation-pattern<sup>1)</sup>  
750 MHz

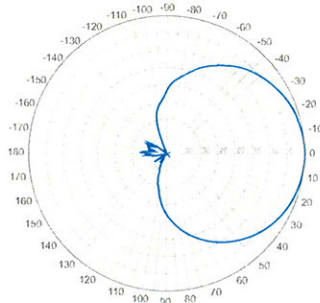


Horizontal

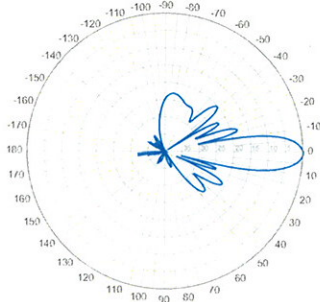


Vertical

850 MHz



Horizontal

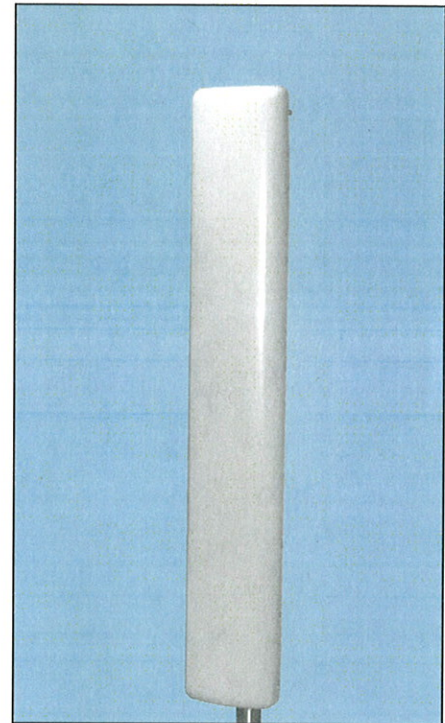


Vertical

696-900 MHz

## BXA-70063/6CF

When ordering replace " " with connector type.



Featuring our Exclusive  
3T Technology™  
Antenna Design:

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

### Warranty:

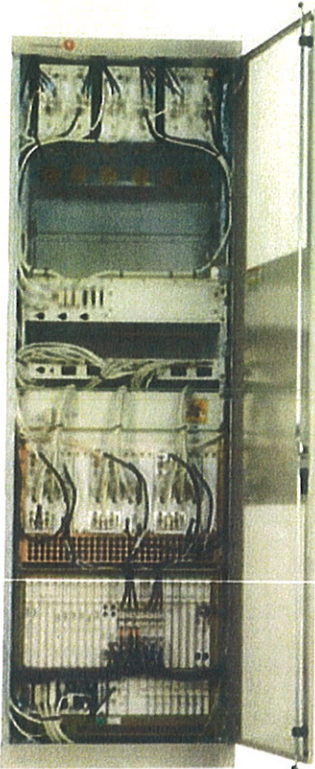
This antenna is under a five-year limited warranty for repair or replacement.

Revision Date: 01/08/09



# Lucent CDMA Modular Cell 4.0B Indoor

## For CDMA Networks



Lucent CDMA Modular Cell 4.0B is a high capacity base station equipped with the state-of-the-art technologies developed by Bell Labs. The product brings you outstanding carrier density and immediate OPEX savings. This indoor product can support up to 8 carriers/3 sectors per frame. It is twice the density of Modular Cell 4.0 (indoor). Modular Cell 4.0B offers full spectrum coverage in a single frame, dramatically simplifying growth patterns. As the leader in spread spectrum technology, Lucent Technologies continues to introduce innovations to the market: Multi-Carrier Radio (15MHz), Block Filters/Wideband Filters, and 40W Power Amplifier Modules are the latest assets integrated in the base station.

### Features

The Modcell 4.0B indoor version offers a small footprint with exceptional carrier density in a standard ETSI cabinet.

- Indoor Single Frame Configuration
- 1-8 carriers per frame at 3 sectors (will support up to 11 carriers with Auxiliary Amplifier Frame)
- Dual Band: one cell to the ECP & mobile
- Close Loop Gain Control
- Timing and Controller Redundancy
- Integrated Power option
- Support CDMA2000™1X, and EV-DO Rev.0, with future support to EV-DO Rev. A
- IP Backhaul and Ethernet Backhaul capable
- 6-Sector option ready
- Intelligent Antenna option ready

### Benefits

- Optimized for highest carrier density, smooth growth in one frame
- Conserves indoor footprint, reducing hardware and floor space requirements
- Minimizes configuration complexity
- Software-Only Carrier Add at certain carrier counts
- Flexible channel growth planning
- Designed to use existing power supply
- Grow CDMA carriers on only 2 antennas/sector
- Multi-Carrier Radio (15MHz), Block Filters/Wideband Filters, and 40W Power Amplifier Modules



## Technical Specifications

| Description                              | Specification  |
|--|--|
| <b>1. Configurations</b>                 |  |
| a. Sectors                               | 3, 4 and 6   |
| b. Carriers                              | 1–8 per frame at 3 sectors (up to 11 with Auxiliary Amplifier Frame)   |
| <b>2. CDMA Channel Card Capacity</b>     | 12 slots; CMU IVB capable  |
| <b>3. T1, E1 Facilities</b>              | Maximum of 20 per cabinet when equipped with URC-II's  |
| <b>4. User Alarms</b>                    | 7 Power Alarms, 25 User Alarms   |
| <b>5. GPS Antenna</b>                    | Yes  |
| <b>6. Air Interface Standards</b>        | T1A/E1A 95-A plus TSB-74; T1A/E1A 95-B for 850 MHz; CDMA 2000  |
| <b>7. Frequency Bands</b>                | 850MHz/1900 MHz;<br>300 to 2100 MHz capable  |
| <b>8. Vocoder</b>                        | 8 Kbps; 8 Kbps EVRC; 13 Kbps; SMV-ready  |
| <b>9. Environmental Cabinet Housing</b>  | Standard ETSI cabinet; UL50 compliant; zero rear clearance   |
| <b>10. Cabinet Access</b>                | Front Access   |
| <b>11. Operating Temperature Range</b>   | Range: -5 to +40°C (continuous)  |
| <b>12. Dimensions</b>                    | 600 mm W x 600 mm D x 1880 mm H<br>(23.6 x 23.6 x 74) inches   |
| <b>13. Estimated Installed Weight</b>    | 365 kg (785 lbs.) DC [8 carriers in one cabinet]   |
| <b>14. Power Options</b>                 | Integrated Power, AC 120/240 Volt Input, -48V or +24 V DC Conversion<br>Non-integrated Power requires either + 24 VDC Input or - 48 VDC Input  |
| <b>15. Power Consumption</b>             |  |
| a. 3 Carrier/3 Sectors                   | 2167 W   |
| b. 6 Carrier/3 Sectors                   | 5449 W   |
| c. 11 Carrier/3 Sectors                  | 10026 W  |
| <b>16. RF Power (at J4)</b>              | 25 W per carrier (850) FCC Rated short-term average<br>20 W per carrier (850) FCC Rated long-term average<br>20 W per carrier (1900) FCC Rated short-term average<br>16 W per carrier (1900) FCC Rated long-term average |
| <b>17. Minimal Antenna Configuration</b> | 2 antennas/sector  |
| <b>18. Filter</b>                        | Block and Wide Band Dual Duplex  |
| <b>19. Growth Frame</b>                  | PCS AUX Frame, Dual Band Growth Frame  |
| <b>20. Operational Accessories</b>       | Integrated Power   |
| <b>21. Channel Elements</b>              | Channel pooling across sectors or carriers   |

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative or visit our web site at <http://www.lucent.com>.

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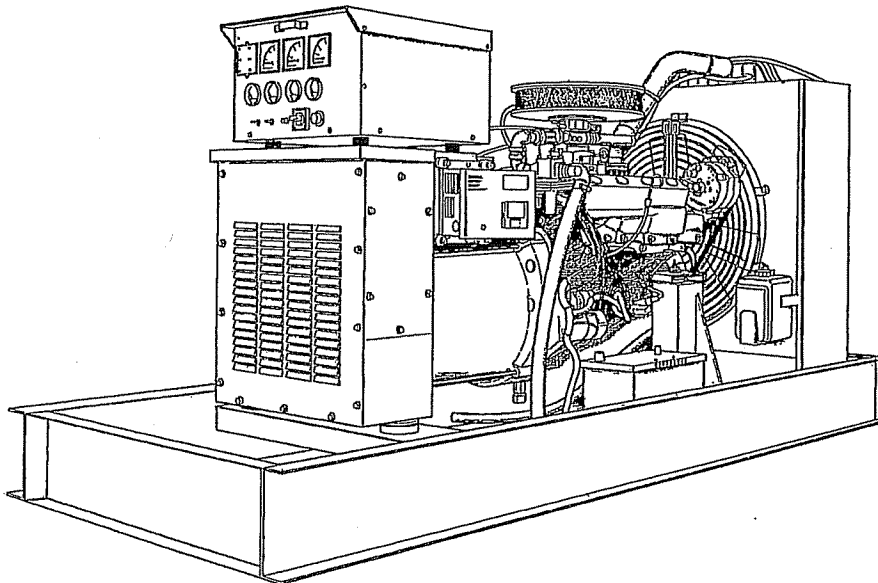
MOB-Mod4B-i 0106



# SG060

## Liquid Cooled Gas Engine Generator Sets

Standby Power Rating  
60KW 60 Hz



Power Matched  
**GENERAC 6.8 GN ENGINE**  
Naturally Aspirated

### VERIZON WIRELESS MODELS

#### NATURAL GAS

- 4816 - 120/240 - 1 $\phi$  Open
- 4817 - 120/240 - 1 $\phi$  Sound Encl.
- 4874 - 120/208 - 3 $\phi$  Open
- 4875 - 120/208 - 3 $\phi$  Sound Encl.

#### LP VAPOR

- 4931 - 120/240 - 1 $\phi$  Open
- 4932 - 120/240 - 1 $\phi$  Sound Encl.
- 4935 - 120/208 - 3 $\phi$  Open
- 4936 - 120/208 - 3 $\phi$  Sound Encl.

## FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
  - ✓ PROTOTYPE TESTED
  - ✓ SYSTEM TORSIONAL TESTED
  - ✓ ELECTRO-MAGNETIC INTERFERENCE
  - ✓ NEMA MG1 EVALUATION
  - ✓ MOTOR STARTING ABILITY
  - ✓ SHORT CIRCUIT TESTING
  - ✓ UL 2200 COMPLIANCE AVAILABLE
- **SOLID-STATE, FREQUENCY COMPENSATED DIGITAL VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component. You are never on your own when you own a GENERAC POWER SYSTEM.
- **GENERAC TRANSFER SWITCHES, SWITCHGEAR AND ACCESSORIES.** Long life and reliability is synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems, accessories, switchgear and controls for total system compatibility.

**GENERAC**<sup>®</sup>  
POWER SYSTEMS, INC.

# APPLICATION & ENGINEERING DATA

SG060

## GENERATOR SPECIFICATIONS

|   |                                |
|---|--------------------------------|
| TYPE .....                                | Four-pole, revolving field     |
| ROTOR INSULATION .....                    | Class H                        |
| STATOR INSULATION .....                   | Class H                        |
| TOTAL HARMONIC DISTORTION .....           | <3%                            |
| TELEPHONE INTERFERENCE FACTOR (TIF) ..... | <50                            |
| ALTERNATOR .....                          | Self-ventilated and drip-proof |
| BEARINGS (PRE-LUBED & SEALED) .....       | 1                              |
| COUPLING .....                            | Direct, Flexible Disc          |
| LOAD CAPACITY (STANDBY) .....             | 100%                           |
| LOAD CAPACITY (PRIME) .....               | 110%                           |

**NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046, and DIN6271 standards.**

## VOLTAGE REGULATOR

|                  |   |
|------------------|---|
| TYPE .....       | Full Digital  |
| SENSING .....    | 3 Phase   |
| REGULATION ..... | ± 1/4%  |
| FEATURES .....   | Built into H-100 Control Panel<br>V/F Adjustable<br>Adjustable Voltage and Gain |

## GENERATOR FEATURES

- Revolving field heavy duty generator
- Operating temperature rise 120 °C above a 40 °C ambient
- Insulation is Class H rated at 150 °C rise
- All prototype models have passed three phase short circuit testing

## CONTROL PANEL FEATURES

- TWO FOUR LINE LCD DISPLAYS READ:
  - Voltage (all phases)
  - Power factor
  - KVAR
  - Engine speed
  - Run hours
  - Fault history
  - Coolant temperature
  - Low oil pressure shutdown
  - Overvoltage
  - Low coolant level
  - Not in auto position (flashing light)
  - ATS selection
  - Current (all phases)
  - kW
  - Transfer switch status
  - Low fuel pressure
  - Service reminders
  - Oil pressure
  - Time and date
  - High coolant temperature shutdown
  - Overspeed
  - Low coolant level
  - Exercise speed
- INTERNAL FUNCTIONS:
  - FT function for alternator protection from line to neutral and line to line short circuits
  - Emergency stop
  - Programmable auto crank function
  - 2 wire start for any transfer switch
  - Communicates with the Generac HTS transfer switch
  - Built-in 7 day exerciser
  - Adjustable engine speed at exerciser
  - RS232 port for GenLink<sup>®</sup> control
  - RS485 port remote communication
  - Canbus addressable
  - Governor controller and voltage regulator are built into the master control board
  - Temperature range -40 °C to 70 °C

## ENGINE SPECIFICATIONS

|                               |                         |
|-------------------------------|-------------------------|
| MAKE .....                    | GENERAC                 |
| MODEL .....                   | 6.8GN                   |
| CYLINDERS .....               | V-10                    |
| DISPLACEMENT .....            | 6.8 Liter (417 cu. in.) |
| BORE .....                    | 90.2 mm (3.55 in.)      |
| STROKE .....                  | 105.8 mm (4.17 in.)     |
| COMPRESSION RATIO .....       | 9:1                     |
| INTAKE AIR .....              | Naturally Aspirated     |
| NUMBER OF MAIN BEARINGS ..... | 6                       |
| CONNECTING RODS .....         | 10-Drop forged steel    |
| CYLINDER HEAD .....           | Aluminum                |
| PISTONS .....                 | Aluminum Alloy          |
| CRANKSHAFT .....              | Forged Steel            |

### VALVE TRAIN

|                              |                              |
|------------------------------|------------------------------|
| CAM FOLLOWER .....           | Hydraulic                    |
| INTAKE VALVE MATERIAL .....  | Copper Infiltrated Iron Base |
| EXHAUST VALVE MATERIAL ..... | Copper Infiltrated Iron Base |
| HARDENED VALVE SEATS .....   | Standard                     |

### ENGINE GOVERNOR

|  |          |
|--|----------|
| <input type="checkbox"/> ELECTRONIC .....        | Standard |
| FREQUENCY REGULATION, NO-LOAD TO FULL LOAD ..... | 0.5%     |
| STEADY STATE REGULATION .....                    | ±0.25%   |

### LUBRICATION SYSTEM

|                          |                              |
|--------------------------|------------------------------|
| TYPE OF OIL PUMP .....   | Gerotor                      |
| OIL FILTER .....         | Full flow, Spin On Cartridge |
| CRANKCASE CAPACITY ..... | (6 qts.)                     |

### COOLING SYSTEM

|                            |                              |
|----------------------------|------------------------------|
| TYPE OF SYSTEM .....       | Pressurized, closed recovery |
| WATER PUMP .....           | Pre-lubed, self-sealing      |
| TYPE OF FAN .....          | Pusher                       |
| NUMBER OF FAN BLADES ..... | 6                            |
| DIAMETER OF FAN .....      | 558.8 mm (22 in.)            |
| COOLANT HEATER .....       | 120V, 1500 W                 |

### FUEL SYSTEM

#### FUEL

|  |                                |
|--|--------------------------------|
| <input type="checkbox"/> Natural Gas or L.P. Vapor ..... | Standard                       |
| <input type="checkbox"/> L.P. Liquid Withdrawal .....    | Optional                       |
| CARBURETOR .....   | Down draft                     |
| SECONDARY FUEL REGULATOR .....                           | Nat. Gas or L.P. Vapor Systems |
| HOT WATER VAPORIZER .....                                | L.P. Liquid Withdrawal Systems |
| AUTOMATIC FUEL LOCKOFF SOLENOID .....                    | Standard                       |
| OPERATING FUEL PRESSURE VAPOR SYSTEMS .....              | 7" to 14" H <sub>2</sub> O     |

### ELECTRICAL SYSTEM

|                                 |                          |
|---------------------------------|--------------------------|
| BATTERY CHARGE ALTERNATOR ..... | 18 Amps at 12 V          |
| STARTER MOTOR .....             | 12 V                     |
| RECOMMENDED BATTERY .....       | (1) - 12 V, 700 CCA, 27F |
| GROUND POLARITY .....           | Negative                 |

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). Prime (Unlimited Running Time): Applicable for supplying electric power in lieu of commercially purchased power. Prime power is the maximum power available at variable load. A 10% overload capacity is available for 1 hour in 12 hours. (All ratings in accordance with BS5514, ISO3046, ISO8528 and DIN6271).

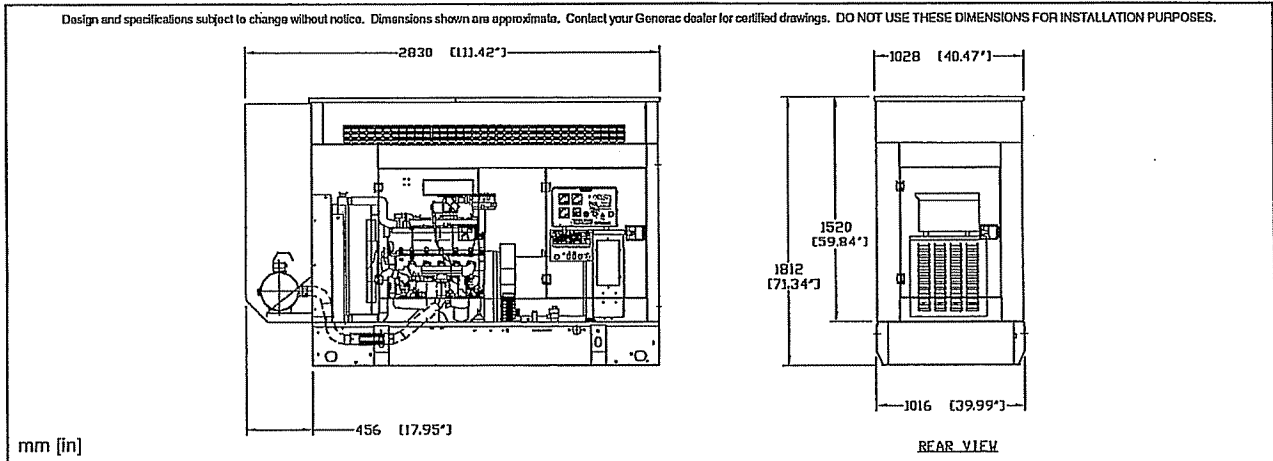


# STANDARD ENGINE & SAFETY FEATURES

SG060

- High Coolant Temperature Automatic Shutdown
  - Low Coolant Level Automatic Shutdown
  - Low Oil Pressure Automatic Shutdown
  - Overspeed Automatic Shutdown (Solid-state)
  - Crank Limiter (Solid-state)
  - Oil Drain Extension
  - Radiator Drain Extension
  - Factory-Installed Cool Flow Radiator
  - Closed Coolant Recovery System
  - UV/Ozone Resistant Hoses
  - Rubber-Booted Engine Electrical Connections
  - Secondary Fuel Filter
  - Fuel Shutdown Solenoid
  - Battery - 12 Volt 90 AH
  - Stainless Steel Flexible Exhaust Connection
  - Battery Charge Alternator
  - Battery Cables
  - Composite Battery Box
  - Vibration Isolation of Unit to Mounting Base
  - 12 Volt, Solenoid-Activated Starter Motor
  - Air Cleaner
  - Air Cleaner Service Indicator
  - Fan Guard (CSA Compliant)
  - CSA Guarding
  - Critical Grade Muffler (Shipped Loose With Open Unit)
  - High Temperature Exhaust Wrap
  - Alternator Tropicalization
    - Resists Moisture, Fungus and Abrasives
    - In Addition to Standard Class H Epoxy Impregnation Coating
  - Upsized Alternator For Increased Motor Starting
  - Propylene Glycol 50/50 Mix Antifreeze
  - Oil
  - Coolant Expansion and Recovery Tank
  - Extended Factory Test (2.5 Hr.)
    - Stepped Loads
    - Frame Temperature Test
  - Specification Sheet Does Not Reflect Any Verizon Wireless Corporate Authorized Variances.
- "H" Control Console – Digital Controller
    - Communication Software for Remote Access
    - Digital Reading AC Volts
    - Digital Reading AC Amps
    - Digital Frequency
    - Emergency Stop Button
    - Audible Alarm
    - Programmable Engine Control  
(See Bulletin #0172110SBY For Details)
  - 20 Light Annunciator Generator Alarms
  - 8 Form C Dry Contact Output Relays
  - 120 Volt Coolant Heater 1500 Watt with 3 Wire Connection Cord
  - Mainline Circuit Breaker
    - 200 Amp & 100 Amp – 120/240 Single Phase
    - 200 Amp & 50 Amp – 120/208 Three Phase
  - Flexible Fuel Lines
  - Fuel Pressure Loss Protection System
  - UL2200 Listed
  - Five Year Extended Warranty
  - Enclosure Options
    - Open Generator Set w/ Duct Adapter
    - Weather Protective Level III Sound Attenuated Enclosure w/ Enclosed Critical Grade Muffler and Flex Exhaust
  - 12V Dual-Rate 10 Amp Battery Charger With 120V 3 Wire Connection Cord

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Site Search Summary  
 Bayview Facility  
 Milford, Connecticut

Section 16-50j-74(j) of the Regulations of Connecticut State Agencies requires the submission of a statement that describes “the narrowing process by which other possible sites were considered and eliminated.” In accordance with this requirement, descriptions of the general site search process, the identification of the applicable search area and the alternative locations considered for development of the proposed telecommunications facility in the Bayview section of the City of Milford are provided below.

Site Search Process

To initiate its site selection process in an area where wireless service problems have been identified, Cellco first establishes a “site search ring” or “site search area.” In any search ring or search area, Cellco seeks to avoid the unnecessary proliferation of towers and to reduce the potential adverse environmental effects of the cell site, while at the same time maximizing the quality of service provided from a particular facility. These objectives are achieved by initially locating existing towers and other sufficiently tall structures within and near the site search area. If any are found, they are evaluated to determine whether they are capable of supporting Cellco’s telecommunications equipment at a location and elevation that satisfies its technical requirements.

Cellco maintains four (4) telecommunications facilities within approximately three (3) miles of the proposed Bayview Facility. None of these existing facilities, however, can provide the service needed in the identified problem areas, along portions of Route 162 and local roads, as well as commercial and residential land uses in the Bayview area. (See Attachment 7).

Existing Telecommunication Facilities

|    | <u>(Cellco Site Name)</u> | <u>Facility Height and Type</u> | <u>Location</u>                      | <u>Cellco Antenna Height</u> |
|----|---------------------------|---------------------------------|--------------------------------------|------------------------------|
| 1. | Milford South             | 70’<br>(Smokestack)             | 200 High Street<br>Milford, CT       | 67’                          |
| 2. | Forest Heights            | 87.5’<br>(Roof-Top Flagpole)    | 1052 Boston Post Road<br>Milford, CT | 76.5’ and 82.5’              |
| 3. | Old Gate                  | 120’<br>(Tower)                 | 311 Old Gate Lane<br>Milford, CT     | 100’                         |
| 4. | Milford South 2           | 185’<br>(Tower)                 | 185 Research Drive<br>Milford, CT    | 126’                         |

If existing towers or structures are not available or technically feasible, other locations are investigated where the construction of a new tower is required to satisfy Cellco's service requirements. The list of available locations may be further reduced if, after preliminary negotiations, the property owners withdraw a site from further consideration. From among the remaining locations, the proposed sites are selected by eliminating those that have greater potential for adverse environmental effects and fewer benefits to the public (*i.e.*, those requiring taller towers, possibly with lights; those with substantial adverse environmental impacts, or in densely populated residential areas; and those with limited ability to share space with other public or private telecommunications entities). It should be noted that in any given site search, the weight afforded to factors considered in the selection process will vary depending upon the availability and nature of sites within the search area.

#### Identification of the Bayview Search Area

The purpose of the proposed Bayview Facility is to provide reliable PCS, cellular and LTE service to significant gaps that have been identified along portions of Route 162 and local roads, as well as commercial and residential areas, in the Bayview area. These coverage gaps were identified using system performance data including, but not limited to, baseline drive data and Cellco's best server propagation modeling tool.

Cellco issued its Bayview search area in September of 2006. (See attached Search Area Map). As a matter of practice, Cellco's initial site search effort focuses on municipal or other quasi-public properties that might be available and appropriate locations for a telecommunications facility. If no public properties are available, Cellco investigates private land within or near the designated search area.

#### Sites Investigated in the Bayview Area

The Bayview section of Milford presents several obvious challenges when searching for a telecommunications facility location. The predominant land use in the area is a mix of small lot single-family and multi-family residential. Small commercial uses, neighborhood recreation areas and an assisted living facility are also found on and in the immediate vicinity of the 234 Melba Street parcel ("Property").

Cellco explored the use of the existing 135-foot T-Mobile flagpole tower on the Property. This tower is currently shared by AT&T, with antennas at the 90 and 100-foot levels; T-Mobile with antennas at the 110 and 120-foot levels; and Sprint antennas at the 130-foot level. The existing T-Mobile flagpole tower is not structurally capable of supporting additional antennas on the existing structure, below the AT&T antennas. Likewise, the existing tower cannot be expanded to accommodate Cellco's antennas above the Sprint antennas. Construction of a new flagpole tower, capable of supporting AT&T, T-Mobile, Sprint and Cellco antennas would need to be at least 165 feet tall (AT&T antennas at the 90 and 100-foot levels; T-Mobile antennas at the 110 and 120-foot levels; Sprint antennas at the 130-foot level; and Cellco antennas at the 140, 150 and 160-foot levels).



Rather than pursue a significantly taller flagpole tower structure in this predominantly residential area, Cellco decided to pursue the development of a second flagpole tower, at a height comparable to the existing T-Mobile flagpole tower. The development of a second flagpole tower would result in minimal additional visual impact on the Bayview area, and less overall visual impact than a 165-foot tall flagpole tower. A similar approach at Cellco's Round Hill facility successfully reduced the overall visual impact of the telecommunications facility in the predominantly residential areas of north Greenwich.



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 MN (13.9° W)



**BAYVIEW SAR**