STERLING

Sterling
Sterling, Connecticut

Description of Proposed Sterling Cell Site

Cellco Partnership d/b/a Verizon Wireless
99 East River Drive
East Hartford, CT 06108

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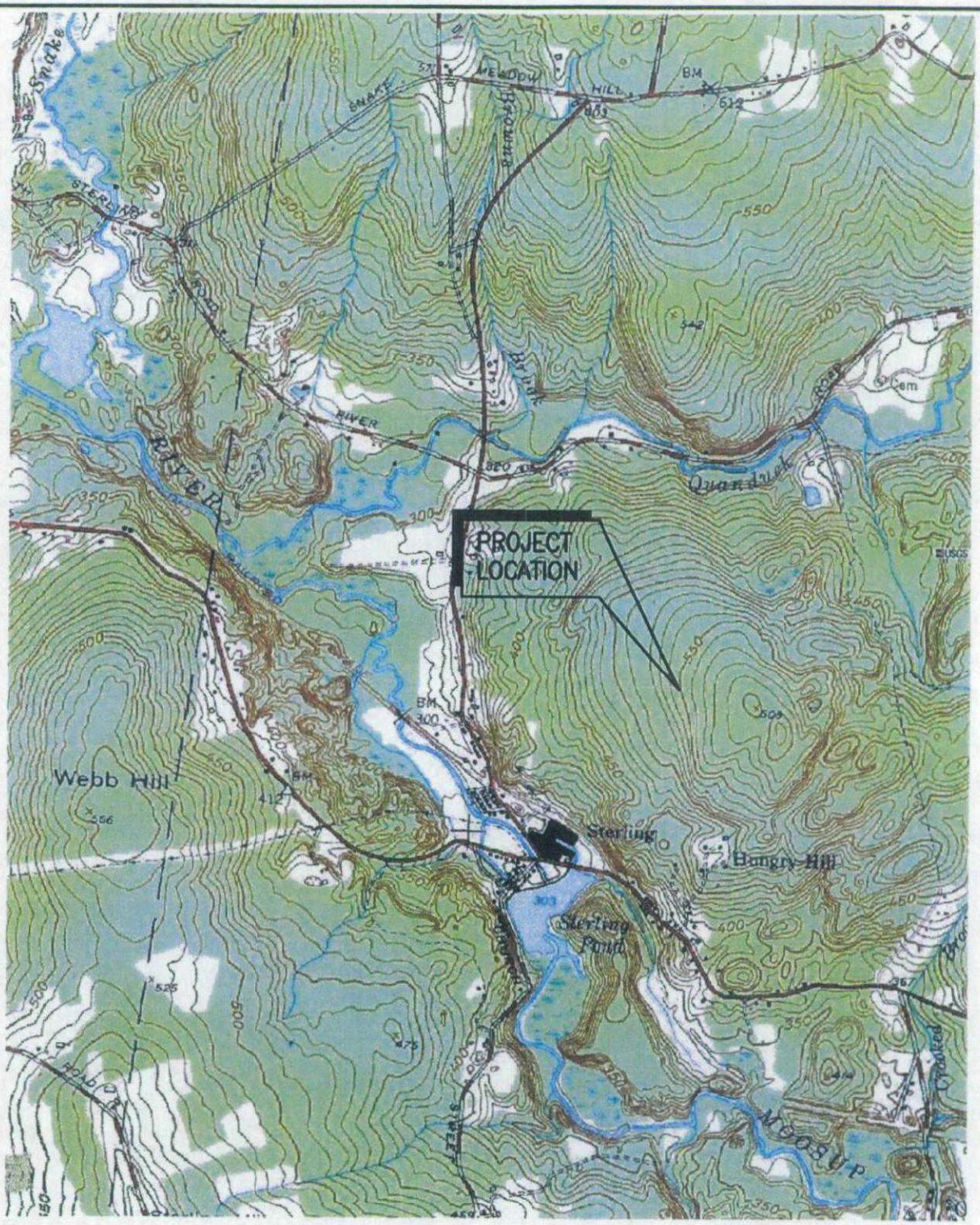
SITE NAME: STERLING – Sterling, Sterling, CT

GENERAL CELL SITE DESCRIPTION

The proposed cell site would be located within a 70' x 70' fenced compound within an 200' x 200' leased area in the southeasterly portion of an approximately 10.83-acre parcel ("Property") owned by the Town of Sterling off Exeter Drive in Sterling, Connecticut (the "Sterling Facility"). The Sterling Facility would consist of a 140-foot monopole telecommunications tower capable of being shared by multiple carriers. Cellco will install antennas at the 137-foot level on the tower and a 12' x 30' equipment shelter on the ground near the base of the tower. The top of the Cellco antennas would not extend above the top of the tower. Vehicular access and utilities would extend from Exeter Drive a distance of approximately 70 feet to the site compound.



1 USGS TOPO MAP: ONECO 41071-F7

SCALE: 1" = 2000'

0 1000 2000

SCALE IN FEET

TRUE NORTH

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OFFICE: (978) 687-2538
FAX: (978) 258-8850

SITE NAME:
STERLING

SITE ADDRESS:
EXETER DRIVE
STERLING, CT 06377
WINDHAM COUNTY

SHEET TITLE:
USGS TOPO MAP

DATE:
06/22/07

REVISION:
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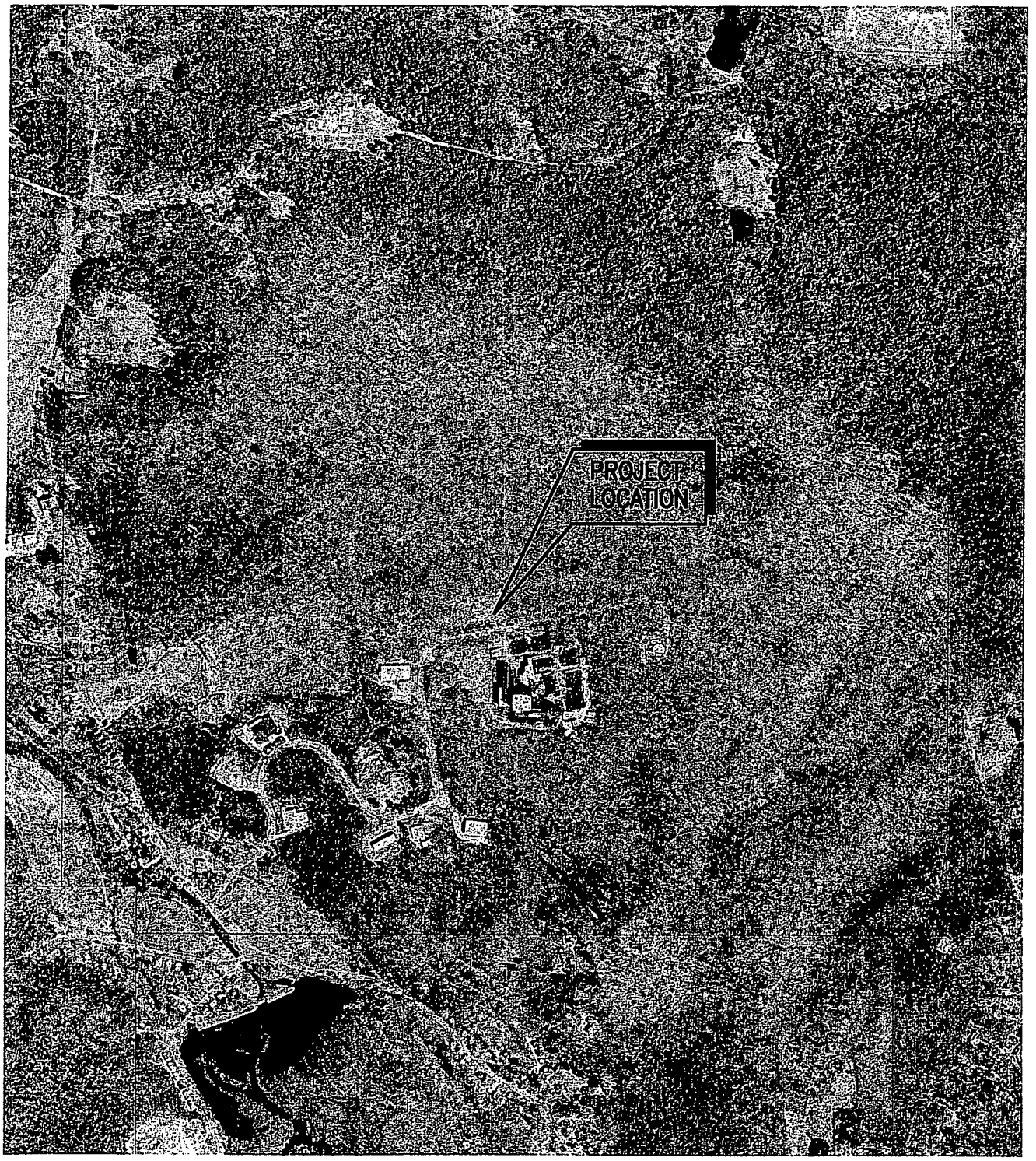

1 **2004 AERIAL PHOTO**
SCALE: 1" = 1000'

0 500 1000
SCALE IN FEET

TRUE NORTH

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STERLING, CT 06377
WINDHAM COUNTY

SHEET TITLE:
AERIAL PHOTO

DATE:
06/22/07

REVISION:
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SITE EVALUATION REPORT

SITE NAME: STERLING – Exeter Drive, Sterling, CT

I. LOCATION

A. COORDINATES: 41°-42'-50.5" N 71°-49'-21.8" W

B. GROUND ELEVATION: Approximately 540± feet AMSL

C. USGS MAP: ONECO, CT

D. SITE ADDRESS: Exeter Drive, Sterling, CT

II. DESCRIPTION

A. SITE SIZE: 200' x 200' Leased Compound Area

B. LESSOR'S PARCEL: Approximately 10.83-acres

C. TOWER TYPE/HEIGHT: 140' Monopole Tower

D. SITE TOPOGRAPHY AND SURFACE: Topography in the general area of the site slopes gently up from west to east. Much of the leased area, and all of the site compound, will be in an area of the parcel previously cleared. This area currently maintains a gravel surface. No clearing and minimal grading will be required. The development of the site will not require the clearing of any substantial trees.

E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The 200' x 200' lease portion of the 10.83 acres parcel was previously cleared. The terrain around the tower site slopes gently up from west to east. No wetland areas exist within or near the site compound or the access driveway. The closest wetland area is located approximately 60 feet north of the site compound.

F. LAND USE WITHIN 1/4 MILE OF SITE: The Sterling Facility is located immediately north of the Exeter Energy power generating facility. To the west are additional industrial land uses also off Exeter Drive. To the north and east is vacant land.

III. FACILITIES

A. POWER COMPANY: Connecticut Light and Power

B. POWER PROXIMITY TO SITE: Approximately 70 feet to the south.

C. TELEPHONE COMPANY: AT&T

D. PHONE SERVICE PROXIMITY: Same as power

E. VEHICLE ACCESS TO SITE: Vehicle access to the site would extend from Exeter Drive over a new 12-foot wide gravel driveway to the site compound a total distance of approximately 70 feet.

F. CLEARING AND FILL REQUIRED: No clearing and minimal grading would be required for construction of the tower, site compound and access drive. Detailed construction plans would be developed after approval by the Siting Council.

IV. LEGAL

A. PURCHASE [ ] LEASE [X]

B. OWNER: Town of Sterling

C. ADDRESS: Exeter Drive, Sterling, CT 06373

D. DEED ON FILE AT: Town of Sterling, CT Land Records

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FACILITIES AND EQUIPMENT SPECIFICATION
(NEW TOWER & EQUIPMENT BUILDING)

SITE NAME: STERLING – Exeter Drive, Sterling, CT

I. TOWER SPECIFICATIONS:

A. MANUFACTURER: To be determined

B. TYPE: Self-supporting monopole

C. TOWER HEIGHT: 140' DIMENSIONS: Approx. 48" base

Approx. 30" top

II. TOWER LOADING:

A. CELLCO EQUIPMENT:

1. Antennas (12)
Six (6) Model LPA-80080/6CF (70.9" x 5.5" x 13.2") Cellular
Six (6) Model LPA-185080/12CF (71.1" x 4.1" x 5.9) PCS antennas
Antenna Centerline 137' AGL

2. GPS Antenna: Mounted on the top of the equipment shelter

3. Transmission Lines:
a. MFG/Model: Andrews LDF5-50A
b. Size: 1 5/8"

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The towers will be designed in accordance with Electronic Industries Association Standard EIA/TIA-222-F-96 "Structural Standards for Steel Antenna Towers and Antenna Support Structures." The foundation designs would be based on soil conditions at the site. Details for the towers and foundation designs will be provided as a part of the final D&M Plan.

ENVIRONMENTAL ASSESSMENT STATEMENT

SITE NAME: STERLING – Exeter Drive, Sterling, CT

I. PHYSICAL IMPACT

A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the facility. There are no lakes, ponds, rivers, streams, wetlands or other regulated bodies of water located in the area to be used for the access drive, tower or equipment shelter. The equipment used will not discharge any pollutants to area surface or groundwater systems.

B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the site would emit no air pollutants of any kind. For limited periods during power outages and periodically for maintenance purposes, minor levels of emissions from the on-site generator would result.

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this application would require the issuance of a Connecticut Department of Environmental Protection Air Bureau permit for potential emissions. Cellco would obtain this permit prior to installing the generator at the approved cell site.

C. LAND

No clearing and minimal grading of the tower compound and access drive will be required. The remaining land of the Lessor is heavily-wooded and would remain unchanged by the construction and operation of the cell site.

D. NOISE

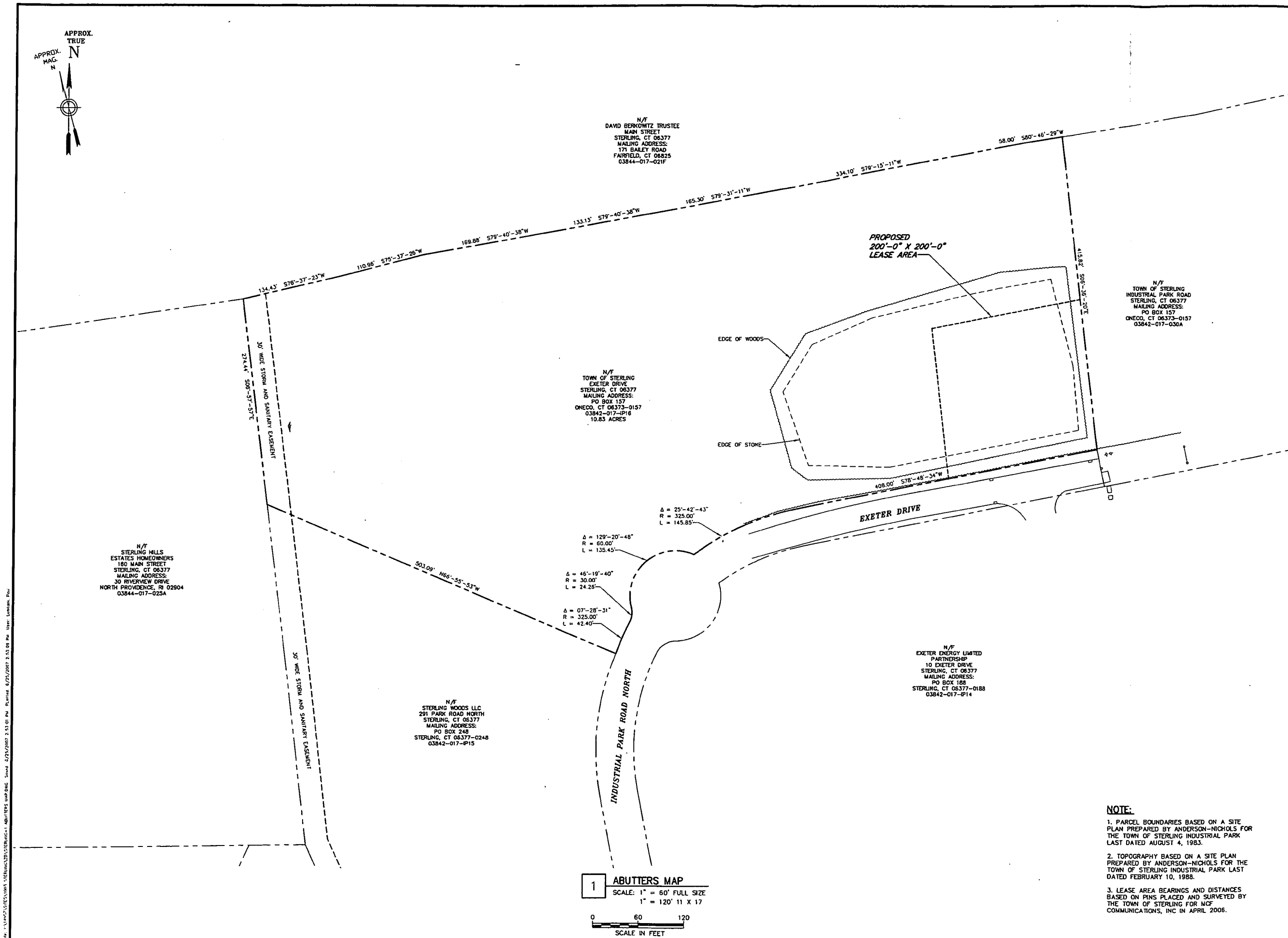
The equipment to be in operation at the site after construction would emit no noise of any kind, except for operation of the installed heating, air conditioning and ventilation systems and occasional operation of a back-up generator which would be run during power failures and periodically for maintenance purposes. Some noise is anticipated during cell site construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density for Cellco's Cellular and PCS antennas at the Sterling facility would be 8.70% of the Standard.

F. VISIBILITY

See Visual Resource Evaluation Report included as Attachment 8.



1 ABUTTERS MAP
SCALE: 1" = 60' FULL SIZE
1" = 120' 11 X 17

NOTE:

1. PARCEL BOUNDARIES BASED ON A SITE PLAN PREPARED BY ANDERSON-NICHOLS FOR THE TOWN OF STERLING INDUSTRIAL PARK LAST DATED AUGUST 4, 1983.

2. TOPOGRAPHY BASED ON A SITE PLAN PREPARED BY ANDERSON-NICHOLS FOR THE TOWN OF STERLING INDUSTRIAL PARK LAST DATED FEBRUARY 10, 1988.

3. LEASE AREA BEARINGS AND DISTANCES BASED ON PINS PLACED AND SURVEYED BY THE TOWN OF STERLING FOR MCF COMMUNICATIONS, INC IN APRIL 2006.

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CHA PROJECT NO:
14957 – 1003 – 1601

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0	06/22/07	ISSUED FOR REVIEW	
	BY: PAL	CHK: PAL	APP'D: JPS

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STERLING

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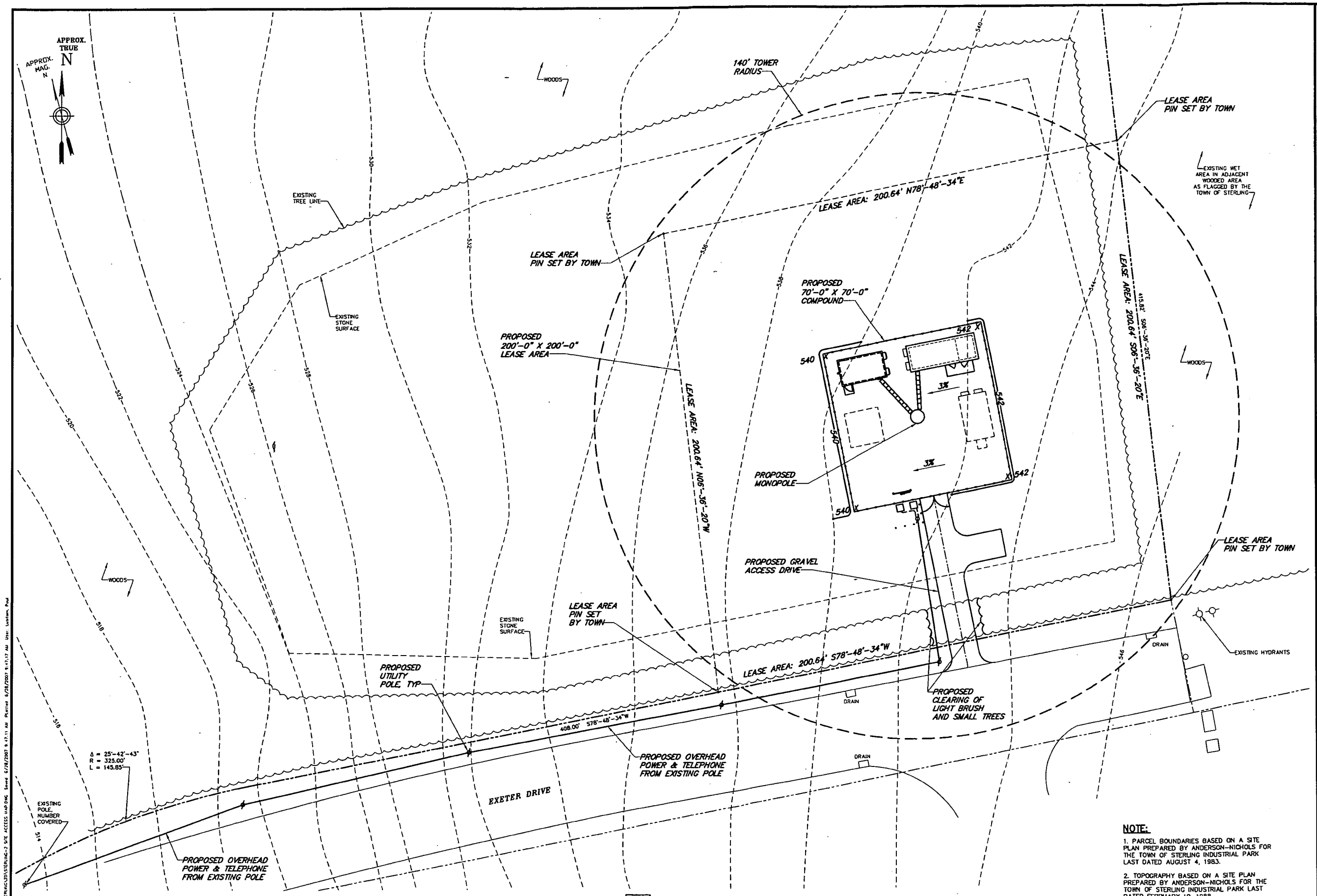
STERLING, CT
06377
WINDHAM COUNTY

SHEET TITLE
ABUTTERS MAP

SHEET NUMBER
A01



1 SITE ACCESS MAP

SCALE: 1" = 20' FULL SIZE
1" = 40' 11 X 17

0 20 40
SCALE IN FEET

NOTE:

1. PARCEL BOUNDARIES BASED ON A SITE PLAN PREPARED BY ANDERSON-NICHOLS FOR THE TOWN OF STERLING INDUSTRIAL PARK LAST DATED AUGUST 4, 1983.

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	BY: PAL	CHK: PAL	APP'D: JPS
1	06/28/07	REVISED PER COMMENTS	
	BY: PAL	CHK: PAL	APP'D: JPS

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STERLING, CT
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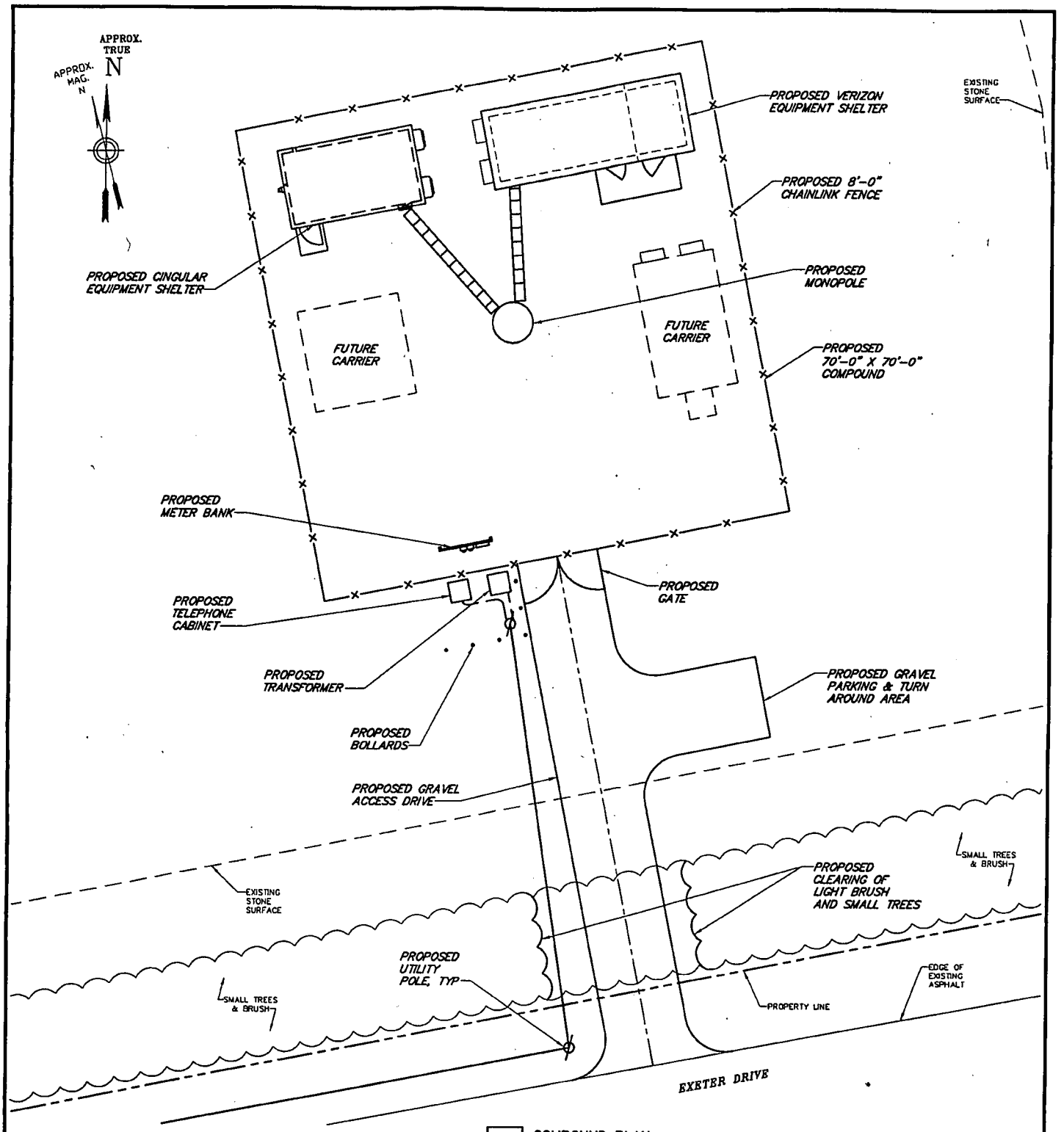
SHEET TITLE
SITE ACCESS MAP

SHEET NUMBER
A02



1 COMPOUND PLAN
SCALE: 1" = 20'
0 10 20
SCALE IN FEET

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SHEET TITLE:
COMPOUND PLAN

DATE:
06/28/07

REVISION:
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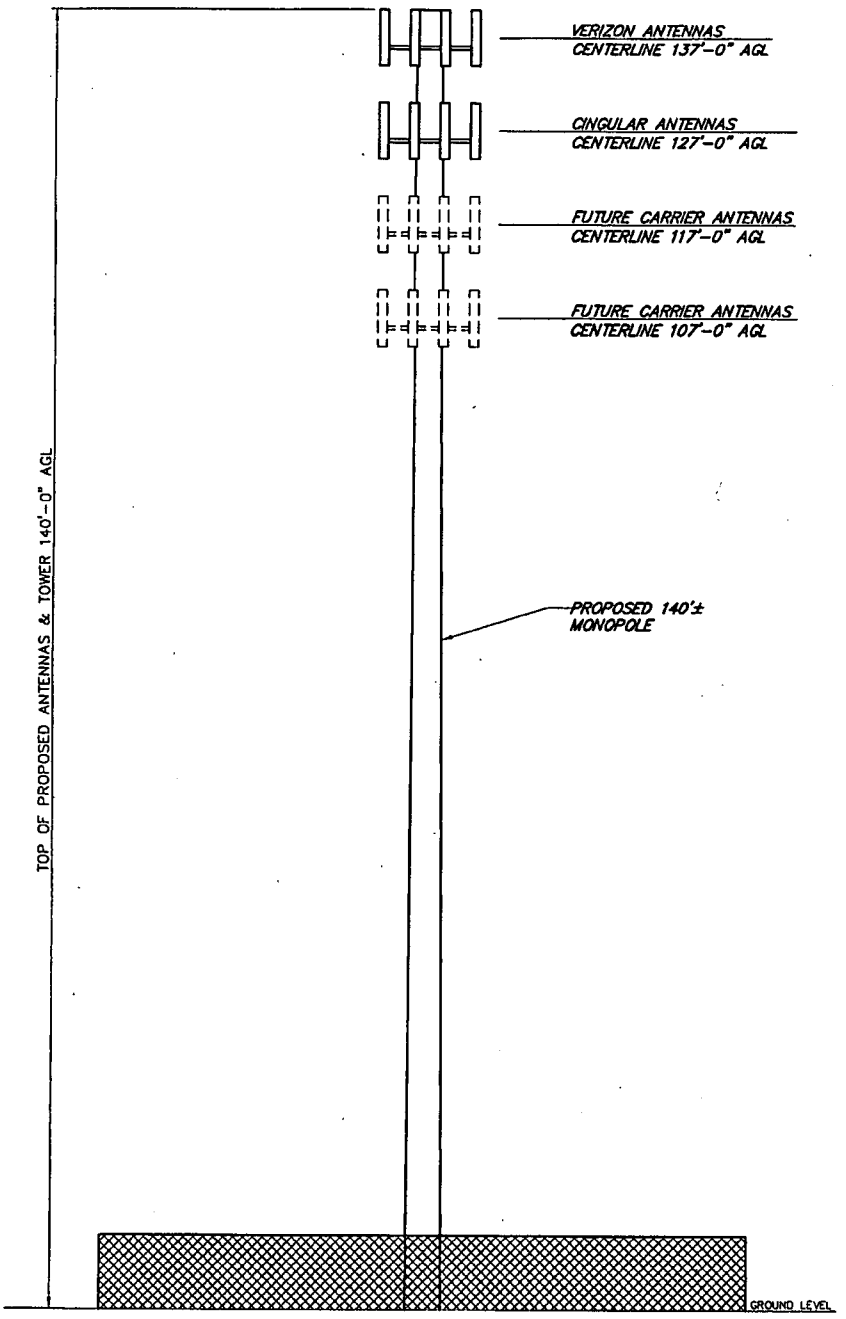

1 **TOWER ELEVATION**
SCALE: 1" = 20'

0 10 20
SCALE IN FEET

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