

1 PLAN
LE-1 SCALE: NTS

SPECIAL DESIGN NOTES: NEXTEL PROPOSES A TOTAL OF 3 ANTENNAS, THREE GPS ANTENNAS, THREE TTAs AND 5 LINES OF 1/8" COAX WITH THIS INSTALLATION.

NEXTEL

NEXTEL Communications
of the Mid-Atlantic, Inc.

7055 Samuel Morse Drive, Suite 100
Columbia, MD 21046
PHONE: (410) 953-7400

ADDITIONAL DESIGN NOTES:
THE DESIGN OF THE COMPOUND AS SHOWN IS PRELIMINARY AND MUST COMPLY WITH A STANDARD SET FORTH BY ALL STATE AND MUNICIPAL BUILDING CODES AND ZONING REGULATIONS INCLUDING VARIANCES.

SUBMITTALS

DATE	REV
01/27/05	0

MD 0735A - BEACH DRIVE
OVERHEAD VIEW
6301 WILSON LANE
BETHESDA, MD 20817

DWG NO.
NX0188-04_LEOVERHEAD.DWG

SIZE **A**  SUPPORT ENGINEERING

SHEET
LE-1



RECEIVED
0331
FEB 23 2005

C. ...
THE MARYLAND NATIONAL CAPITAL
PARK AND PLANNING COMMISSION

DEPARTMENT OF TECHNOLOGY SERVICES

Douglas M. Duncan
County Executive

Alisoun K. Moore
Chief Information Officer

February 22, 2005

Mr. Derick Berlage
M-NCPPC
8787 Georgia Avenue
Silver Spring, Maryland 20910

Re: Nextel Application #200412-01
Thomas Pyle Middle School - 6301 Wilson Lane, Bethesda

This is to advise you that the Telecommunications Transmission Facility Coordinating Group (TTFCG) reviewed the subject TTFCG application on December 15, 2004. For your information, I have attached a copy of the material reviewed by the TTFCG, the Tower Coordinator's Recommendation, excerpts from the minutes of the meeting at which the application was reviewed, and a copy of the Record of Action taken by the group.

Should you have any questions regarding this matter or need additional information please feel free to give me a call at 240-777-3724.

Sincerely,

Jane E. Lawton
TTFCG Chairperson

Enclosures
cc: Hillorie Morrison, Network Building & Consulting

Action Item: Nextel application to replace an existing 30' tennis court light pole with a 110' monopole, and attach antennas at the 108' level and reattach the tennis court lights at the 30' level. The monopole will be located on the Thomas Pyle Middle School property at 6301 Wilson Lane in Bethesda (Application #200412-01).

Matt Wolff summarized the application. Jane Lawton asked about the size of the property. Pat Hanehan replied the property was an approximately 20-acre parcel. He said the proposed location of the monopole was the only place on the property that it could be sited to comply with the requirement to maintain a 300' setback from residences. Ms. Lawton noted that the site plan for this application only showed sufficient ground space to accommodate Nextel's equipment shelter. Bob Hunnicutt stated this was also noted in the Tower Coordinator's recommendation. He added that the monopole could also only accommodate antennas from one additional carrier.

Pat Hanehan stated he thought there was sufficient ground space available to expand the equipment compound for a second carrier. He said this had been the case with the Tilden Middle School, where co-locators were able to expand the existing ground space and board-on-board enclosure to accommodate additional carriers and equipment. Hillorie Morrison agreed, and stated she did not believe there would be a problem meeting the requirements of §59-G-2.43 for ground space to accommodate all potential co-locators, and said the monopole would likely be able to accommodate antennas from two additional carriers. Mr. Hunnicutt stated that Ms. Morrison had previously explained to him that because of the smaller diameter monopole designed for this site, it would only be capable of accommodating antennas and cables from one additional carrier. Ms. Morrison stated Mr. Hunnicutt was correct, but noted that other sites of a similar design had been able to accommodate three sets of antennas. Mr. Hunnicutt noted that the consent agenda application approved at today's meeting was to attach a third set of antennas on a similar monopole design on the Petrucelli property, so the Pyle monopole may be able to support more than one carrier.

Motion: Dave Niblock moved the application be recommended conditioned on compliance with §59-G-2.43 of the zoning code. Jennifer Bryant seconded the motion and it was approved with Pat Hanehan abstaining.



MONTGOMERY COUNTY, MARYLAND
TELECOMMUNICATIONS TRANSMISSION
FACILITY COORDINATING GROUP
RECORD OF ACTION

APPLICATION NUMBER: 200412-01

DATE: 15 December 2004

Application Review:	
Applicant:	Nextel Communications
Description:	Replace an existing 30' tennis court light pole with a 110' monopole and attach three 48" antennas at the 108' level and tennis court lights at the 30' level. Two GPS antennas will also be added.
Site Location:	Thomas Pyle Middle School 6301 Wilson Lane, Bethesda
Property Owner:	Montgomery County Public Schools
Tower Coordinator Recommendation:	Recommended: <input checked="" type="checkbox"/> Not recommended: <input type="checkbox"/>
Land-owning Agency input:	Attached: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Group Comments:	

Vote on recommendation of approval: For Against: Abstain:

Results: Recommended Not recommended

[Handwritten Signature] *12/15/04*
 Chairman Signature Date

[Handwritten Signature] *12/15/04*
 Tower Coordinator Signature Date



MONTGOMERY COUNTY, MARYLAND
TOWER COORDINATOR
RECOMMENDATION

APPLICATION NUMBER: 200412-01

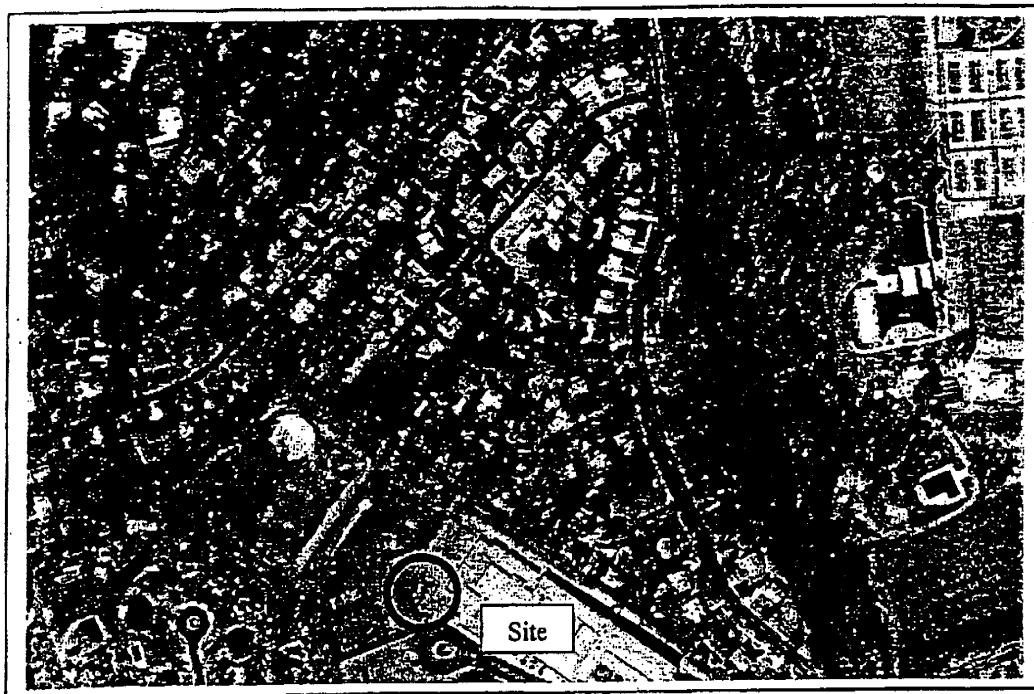
DATE: 16 November 2004

Application Information:		
Applicant:	Nextel Communications	
Description:	Replace an existing 30' tennis court light pole with a 110' monopole and attach three 48" antennas at the 108' level and tennis court lights at the 30' level. Two GPS antennas will also be added.	
Site Location:	Thomas Pyle Middle School 6301 Wilson Lane, Bethesda	
Property Owner:	Montgomery County Public Schools	
Classification in accordance with Zoning Ordinance: R-60		
Private Property:	<input type="checkbox"/>	By right: <input type="checkbox"/> Special Exception: <input type="checkbox"/>
Public Property:	<input checked="" type="checkbox"/>	By right: <input type="checkbox"/> Special Exception: <input type="checkbox"/>
		Mandatory Referral: <input checked="" type="checkbox"/>
Impact on land-owning agency: Minimal		
Existing or future public safety telecommunications facilities and plans: None		
<p>Co-location options: Based on our site visit, there does not appear to be another existing structure to which Nextel could attach its antennas and meet its desired coverage objectives, except the existing stadium light poles at Whitman High School located approximately 3,500' to the southeast of the Pyle property.</p> <p>Use of the Whitman High light pole was discussed prior to Nextel's submission of this application. MCPS staff requested that the Tower Coordinator, TTFCG chair, and MCPS representative meet with representatives from Nextel and two other carriers interested in siting antennas in this area. MCPS staff asked the TTFCG to assist in locating only one monopole/light pole replacement to serve the needs of all the carriers interested in siting antennas in this area. The two options considered were the Pyle Middle School site and a replacement stadium light at Whitman High School. Nextel is the first carrier to submit an application from among those carriers at the meeting.</p> <p>Nextel maintains that the Pyle location better suits its needs, and submitted RF propagation maps in support of use of the Pyle site over the Whitman site. The stated coverage objective for Nextel is along Wilson Lane and areas around the intersections of Wilson Lane at River Road and Bradley Boulevard. Based on our review of the RF maps submitted by Nextel, it appears that if Nextel's antennas were attached to a structure of equivalent height (110') at Whitman High School, River Road would be covered but there would be sections of Wilson Lane and Bradley Boulevard that would not meet Nextel's coverage objectives. Based on our analysis of those RF maps, we agree that the Whitman site does not meet Nextel's coverage needs.</p> <p>Nextel stated that due to the design of this monopole, which has limited space for concealing antennas and related cables, it can only accommodate two carriers, and not three as required by §59-G-2.43 of the zoning code. There is, however, a provision for the Board of Appeals</p>		

to consider permitting fewer than three carriers if requested to do so by the carrier.

Additionally, the ground space proposed for this monopole is designed to only accommodate the Nextel equipment shelter and does not provide sufficient ground space to accommodate equipment shelters for future co-locators at this site, as is also required in §59-G-2.43.

Implications to surrounding area: This 110' monopole will be quite visible to the nearby homes, despite its low profile "stealth" design which will minimize the appearance of the structure on the horizon. The residential area surrounding the site is shown in the photo below. There are some tall trees that will likely conceal the lower elevations of the monopole from some homes when the trees are in full foliage, but many homes will clearly see the top of the monopole from their property - especially when the trees are bare.



Nextel also submitted RF maps for coverage with antennas at 100', 90' and 80'. Based on our review of the RF maps showing coverage with antennas at these lower elevations, it appears that the coverage at 80' clearly does not meet Nextel's objective along River Road. The coverage at 90' is not much better than with antennas at 80 feet. The map showing expected coverage at 110' appears to be only marginally better than the map with antennas at 100', except for a very small portion of River Road where the signal is shown somewhat less strong at 100'. Without drive test results to more accurately demonstrate whether there is a significant difference, based on the RF maps it appears that the monopole could perhaps be lowered to the 100' level with no significant impact on coverage. A lower elevation for the monopole may slightly lessen its visual impact as viewed from surrounding residences.

The three antennas will be flush mounted on the monopole and RF "friendly" material will conceal the antennas and their connecting cables. This will lessen the profile of the structure on the landscape compared to the typical Nextel 12-antenna triangular platform array usually used for attachment to a monopole.

Attachments: Nextel application; site photos prepared by the Tower Coordinator.

Comments: Based on our review of the RF maps for existing coverage in this area, we agree that Nextel has a need for antennas in the vicinity of the Pyle site. Based on our review of

the RF maps showing predicted coverage with antennas at the 110' level at the Pyle site, the monopole appears to provide the coverage desired by Nextel. However, we note that it appears the monopole height could be reduced to 100' with no significant impact on Nextel's coverage objectives.

This recommendation is conditioned on compliance with §59-G-2.43 of the zoning code.

Tower Coordinator Recommendation: Recommended:
Not recommended:

D. H. [Signature] 12/8/04
Signature Date

ICP Coverage (-81dbm, -86dbm) - Existing

