

Memorandum Department of Planning and Public Works

To: Planning and Public Works Committee

From: Kristian Corbin, Project Planner

Date: November 10, 2011

Re: T.S.P. 38-2011 AT&T (17259 Wild Horse Creek Road): A

request to obtain approval for a Telecommunication Facility Siting Permit for a collocation of additional antennas and equipment on an existing stealth tower in a "NU" Non-Urban District–zoned property located at 17259 Wild Horse Creek Road approximately 550 feet east of the intersection of Wild

Horse Creek Road and Long Road (18U420104).

Summary

AT&T has requested an amendment to a telecommunication siting permit to allow for the location of upgraded antennas to facilitate 4G LTE data service on a stealth tower located approximately 550 feet east of the intersection of Wild Horse Creek Road and Long Road (18U420104).

City of Chesterfield Ordinance 2391, which governs telecommunications and facilities siting, requires that the Planning Commission provide a venue for public hearing for Telecommunications Siting Permits. Please note, the Planning Commission does not provide a recommendation to the City Council, but rather generates a list of issues during the hearing. At the public hearing on October 24, 2011, there were no issues identified with this request.

Attached are copies of the site plan, elevations, boundary plat, and propagation study.

Respectfully Submitted,

histion Corlin

Kristian Corbin Project Planner TSP 38-2011 AT&T (17259 Wild Horse Creek Road) Planning and Public Works Committee November 10, 2011

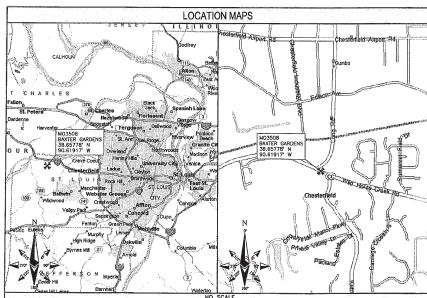
CC: Michael G. Herring, City Administrator Rob Heggie, City Attorney Michael O. Geisel, Director of Planning & Public Works Aimee Nassif, Planning & Development Services Director

Attachments: AT&T 4G LTE Upgrade Packet

MO3508 BAXTER GARDENS

at&t

80'-REPLACEMENT FLAGPOLE



DIRECTIONS FROM NEAREST AT&T OFFICE-



APPROVALS THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HERBIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

OCI:	DATE:	
PROPERTY OWNE	R: DATE:	[
MUNICIPAL:	DATE:	
	DRAWING INDEX]
SHEET NO:	SHEET TITLE	1 10/12/11
T-1	TITLE SHEET	0 9/16/11
Z-1	SITE SURVEY	
Z-2	OVERALL SITE PLAN	REV DATE
Z-3	EXISTING SITE PLAN] [
Z-4	PROPOSED SITE PLAN	
Z-5	SITE ELEVATION	THE TA
Z-6	ANTENNA MOUNT DETAIL	P
		{ ∦ /≯
	www.	1 1
		[[자: '
		1 1 1 1
		111
		1
		1 II 🌄

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES

TOLL FREE: 1-800-344-7483 OR

www.mo1call.com

MISSOURI STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

AT&T SITE AQ:

H. DOYLE NUMBER E-28899 10/2/10 P. H. DOYLE E-28899

DESCRIPTION

13075 MANCHESTER RD, SUITE 100 ST LOUIS, MO 63131

BLACK & VEATCH

BLACK & WATCH PROFESSIONAL ENGINEERING CORPORATION MISSOURI STATE CERTIFICATE OF MITHORITY # 001646

168986

GPX

PROJECT NO:

DRAWN BY

CHECKED BY

IT IS A MOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALIER THIS DOCUMENT.

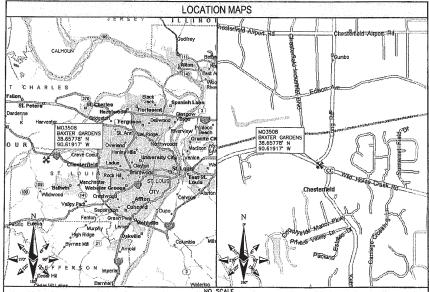
M03508 BAXTER GARDENS 17259 WILD HORSE CREEK ROAD CHESTERFIELD, MO 63005 LTE - REPLACEMENT FLAGPOLE

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



CONTACT INFORMATION

ENGINEERING

GENERAL NOTES THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. I'ME, FACILIT' IS UNMANNED AND NOT FOR HUMAN HABITATION. AT TECHNICIAN WILL WISH THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DEANINGE; NO SANTARY SEWER SERVICE, POTABLE WATER, OR TRASHOSPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS

PROJECT DESCRIPTION THE PROJECT CONSISTS OF THE INSTALATION AND OPERATION OF AMTENNAS AND ASSOCIATED EQUIPMENT CABINETS FOR ATEXTS ELECOMMUNICATIONS NETWORK. INSTALATION OF CONDUCTORLESS ELECOMMUNICATIONS NETWORK. INSTALATION OF (3) RIFIA, (1) FIBER CABLE. (2) DC POWER CABLE. (1) RAYCAP SURGE PROJECTOR. (1) LIE ROKK, (9) PIEW LOUTIDE PANEL AMTENNAS INCLUDING (18) COAX, (9) TMA'S, (1) GPS ANTENNA ARE PROPOSED.

SITE INFORMATION

WILLIAM H. WEISHAAR SR AND MONTENE F. WEISHAAR 17259 WILD HORSE CREEK DRIVE CHESTERFIELD, MO 63005

17259 WILD HORSE CREEK ROAD, AKA:17261 CHESTERFIELD, MO 63005

BILL WELSHAAR, SR. (636) 532-1033 EXT. 103

ST. LOUIS COUNTY

38" 39" 28.01" N 38.65778

90° 37' 9.01" W

55', 65', 75' AGL

CITY OF CHESTERFIELD, MO

NU. NON-URBAN DISTRICT

MARY KREPS (638) 532-1051 EXT. 113 RON HUMPHREY

-90.61917

18U420104

AMEREN MO

(913) 284-6646

AT&T

PROPERTY OWNER:

TOWER OWNER: SITE NAME: BU NUMBER:

SITE CONTACT:

SITE ADDRESS:

LATITUDE (NAD 83):

LONGITUDE (NAD 83):

ZONING JURISDICTION:

ZONING DISTRICT:

OCCUPANCY GROUP:

CONSTRUCTION TYPE: POWER COMPANY:

TELEPHONE COMPANY:

SITE ACQUISITION CONTACT:

CONSTRUCTION MANAGER:

PHONE:

WILL BE HALF SCALE

GROUND ELEVATION

RAD CENTER:

PARCEL #

COUNTY:

2009 INTERNATIONAL BUILDING CODE 2008 NATIONAL ELECTRIC CODE ANSI/TIA-222-G OR LATEST EDITION

15450 S OUTER FORTY DR. SUITE 200 ENGINEER:

IF USING 11"X17" PLOT, DRAWINGS

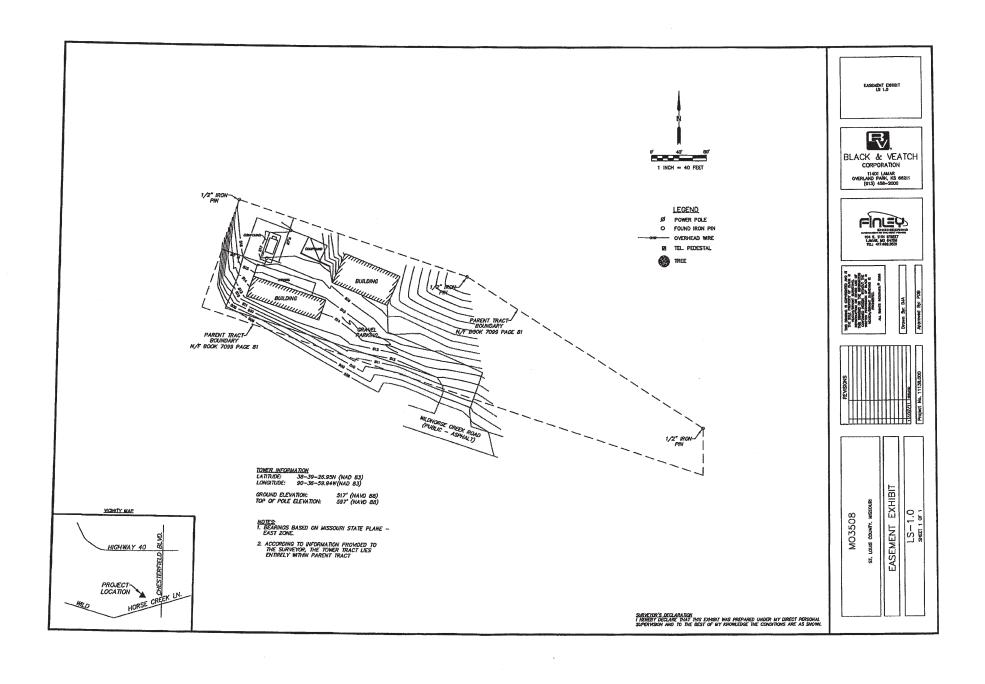
CHESTERFIELD, MO 63017

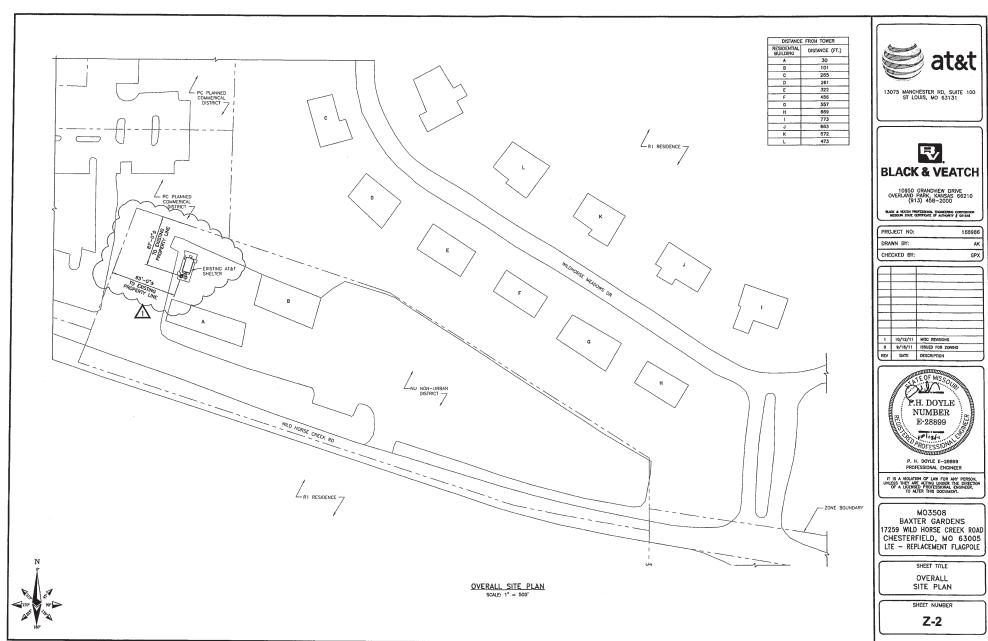
CONTACT

GEORGE P. XENOS (913) 687-9233

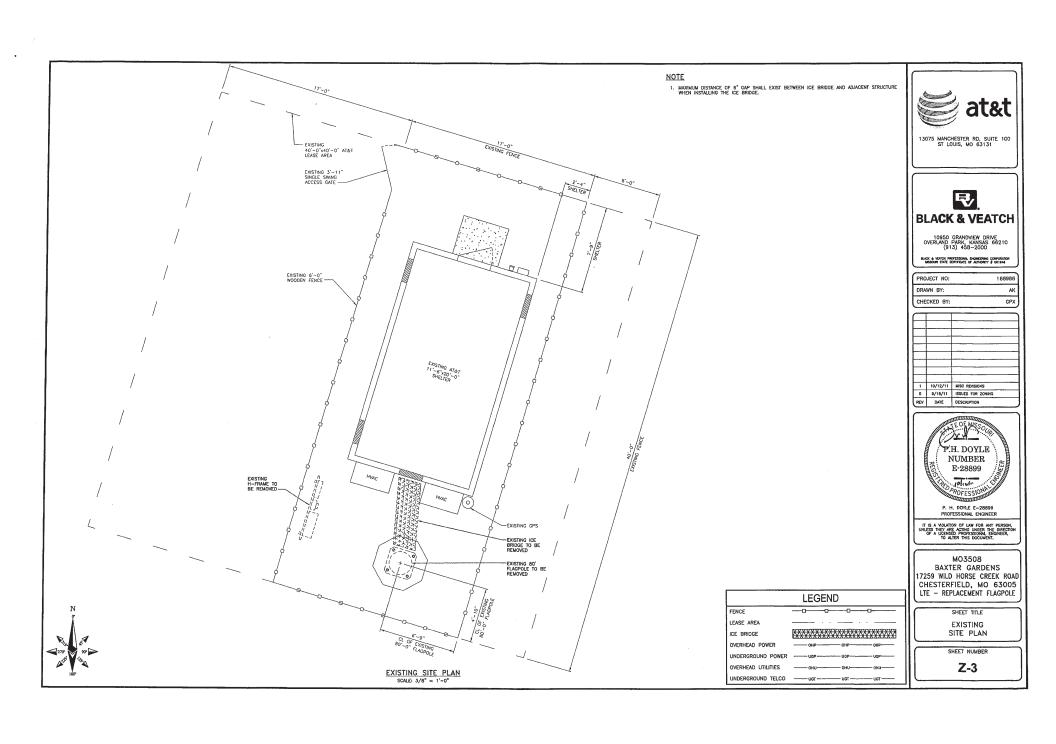
DRIVING DIRECTIONS

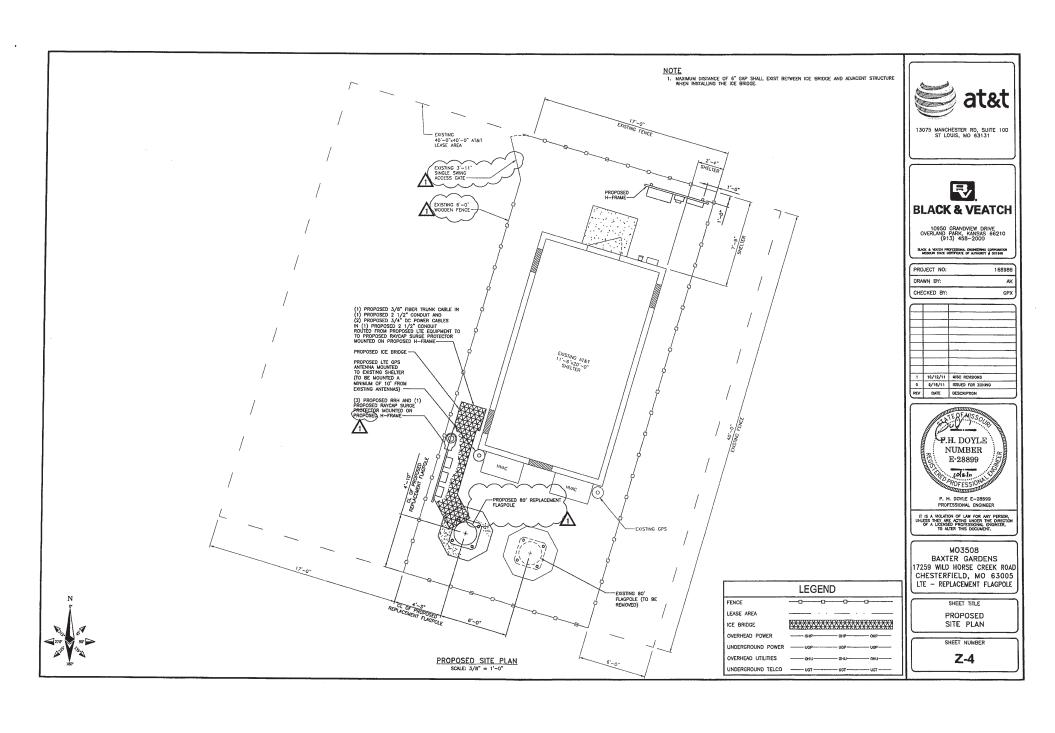
FROM SR 100, KEEP RIGHT ONTO I-270 RAMP, TAKE EXIT 12, KEEP RIGHT ONTO I-64 W RAMP, KEEP LEFT ONTO I-64 W RAMP, KEEP RIGHT ONTO LONG ROAD RAMP, GO STRAIGHT ONTO LONG ROAD RAMP, KEEP RIGHT ONTO LONG ROAD RAMP, TURN LEFT ONTO WILD HORSE CREEK ROAD, SITE IS ON THE LEFT.

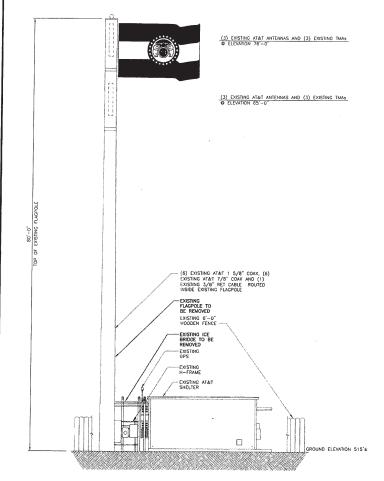




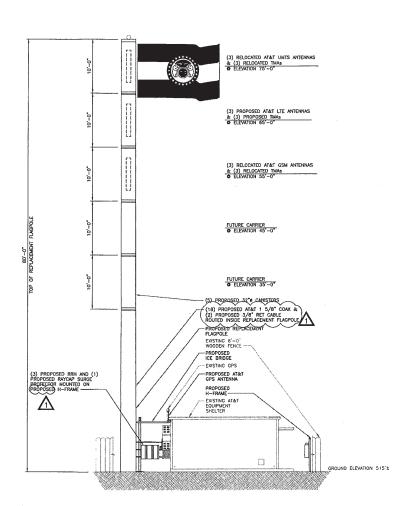
PRO	JECT NO:	168986
DRA	WN BY:	AK
CHE	CKED BY:	GPX
\vdash		
\vdash		
1	10/12/11	MISC REVISIONS
0	9/15/11	ISSUED FOR ZONING
REV	DATE	DESCRIPTION







EXISTING SITE ELEVATION NO SCALE



PROPOSED SITE ELEVATION
NO SCALE



13075 MANCHESTER RD, SUITE 100 ST LOUIS, MO 63131



10950 GRANDVIEW DRIVE OVERLAND PARK, KANSAS 66210 (913) 458-2000

BLACK & VEATCH PROFESSIONAL ENGREERING CORPORATION MESSOURI STATE CERTIFICATE OF AUTHORITY # 001848

PRO	PROJECT NO:	
DRA	WN BY:	AK
CHE	CKED BY:	GPX
\vdash		
_		
1	10/12/11	WISC REVISIONS
0	9/15/11	ISSUED FOR ZONING
REV	DATE	DESCRIPTION



P. H. DOYLE E-28899 PROFESSIONAL ENGINEER

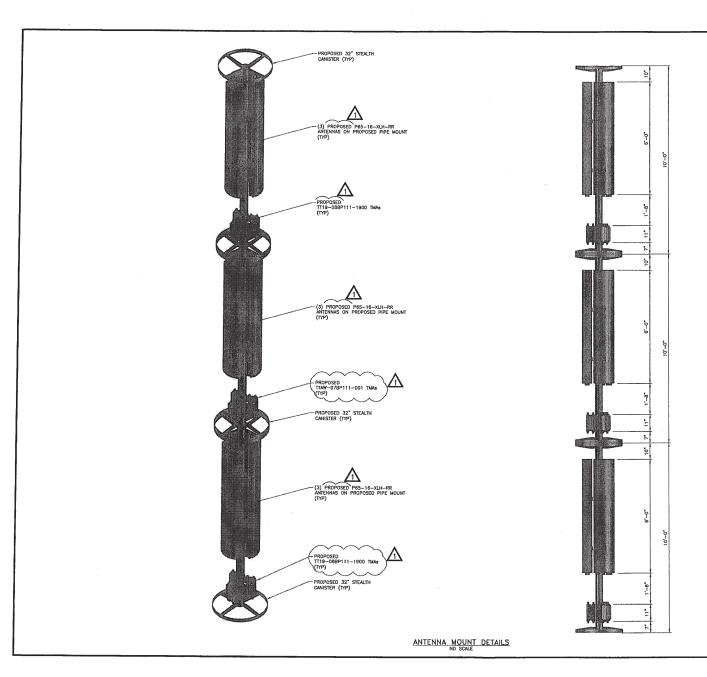
IT IS A WOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

MO3508
BAXTER GARDENS
17259 WILD HORSE CREEK ROAD
CHESTERFIELD, MO 63005
LTE - REPLACEMENT FLAGPOLE

SHEET TITLE
SITE ELEVATION

SHEET NUMBER

Z-5





13075 MANCHESTER RD, SUITE 100 ST LOUIS, MO 63131



10950 GRANDVIEW DRIVE OVERLAND PARK, KANSAS 66210 (913) 458-2000

BLACK & WATCH PROFESSIONAL ENGRETTERS CORPORATION MISSOURS STATE CENTRICATE OF AUTHORITY # 001846

PRO	168986	
DRA	WN BY:	AK
CHE	CKED BY:	GPX
$\overline{}$		
-		
<u> </u>		
┢		
1	10/12/11	MISC REVISIONS
۰	9/16/11	ISSUED FOR ZONING



REV DATE DESCRIPTION

P. H. DOYLE E-28899 PROFESSIONAL ENGINEER

IT IS A MOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

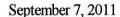
MO3508
BAXTER GARDENS
17259 WILD HORSE CREEK ROAD
CHESTERFIELD, MO 63005
LTE – REPLACEMENT FLAGPOLE

SHEET TITLE

ANTENNA MOUNT DETAIL

SHEET NUMBER

Z-6





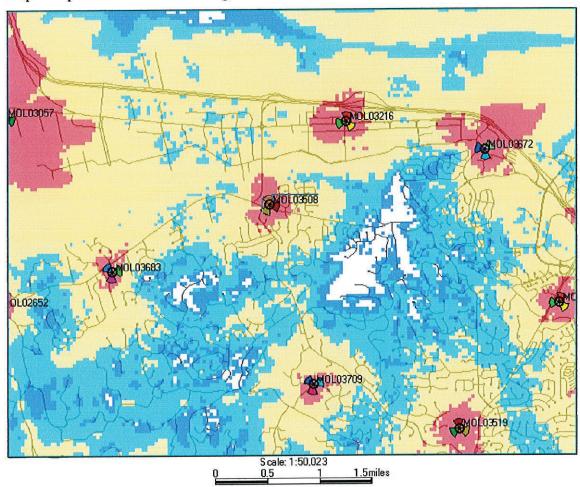
The following is a brief explanation of why AT&T Mobility is proposing to have the current wireless communication facility at 17261 Wild Horse Creek Road modified. This facility is labeled as MOL03508 on Map 1. Currently this facility is only capable of broadcasting our older technologies.

This facility currently is broadcasting our "2G" technology (called GSM) and our "3G" technology (called UMTS). Normally each technology uses its own antennas and equipment. The modification we are proposing is to add our "4G" technology (called LTE). Perhaps you have seen all the television commercials from various wireless carriers talking about their 4G systems. 4G, short for 4th generation of wireless technology, allows wireless carriers to provide much faster data speeds than our current networks. 4G is only for data at this point. All voice calls will still be served on older technologies. Currently AT&T still has the fastest data network. Although as other carriers implement and optimize their 4G networks we expect to lose that advantage and eventually fall behind other carriers unless we also launch our 4G network. The proposed modifications will allow us to implement our 4G technology by using additional antennas and equipment.

Because of national E911 requirements, this site needs to run other technologies. The 4G technology is not capable of handling voice calls at this time and all 911 calls made from a wireless device will be routed through our older technologies. Normally each technology uses its own antennas and equipment. The new 4G technology is on lower frequencies and therefore require slightly larger antennas than what we currently use. Because of this there is no way to fit these antennas in the existing enclosures. The best way to get these antennas concealed from view is to replace the current pole with another pole.

This plan will have no effect on our coverage for current technologies. Map 1 below shows the proposed coverage for our 4G network in the area. AT&T Mobility has acceptable coverage in most of the surrounding area. Because 4G is a data only service the different signal levels don't indicate whether service exists or not. In general on 4G the stronger the signal (to a point) the faster the data rates will be. It is expected that red, yellow and light blue will have data speeds faster than our 3G technology. The dark blue will likely have data speeds nearly identical to the 3G technology.

Map 1 Proposed AT&T "4G" coverage



Ron Humphrey

Radio Frequency Design Engineer AT&T Mobility Division





PHOTO SIMULATION

PROPOSED WIRELESS COMMUNICATIONS FACILITY

SITE LOCATION MAP



SITE NUMBER:

MD3508 (8747)

SITE NAME:

BAXTER GARDENS

SITE ADDRESS:

17259 WILD HORSE CREEK ROAD

CHESTERFIELD, MO 63005

DATE:

09/15/11

APPLICANT:

AT&T WIRELESS

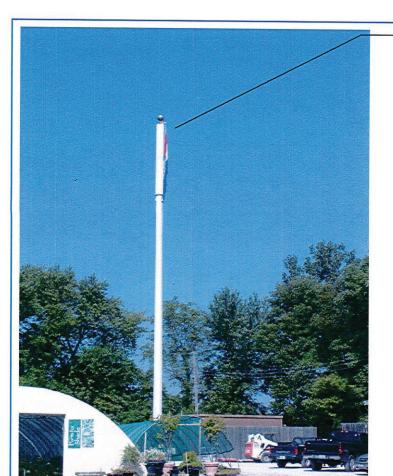
CONTACT:

GEORGE XENOS

BLACK & VEATCH

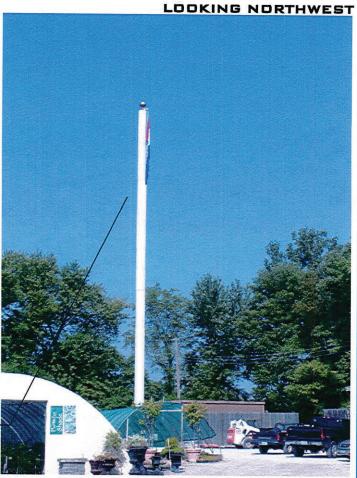
(913) 687-9233





EXISTING CANISTERS AND EXISTING FLAGPOLE

PHOTO SIMULATION -



EXISTING VIEW -LOOKING NORTHWEST

(1) PROPOSED 80'-0" FLAG POLE WITH 32" DIAMETER CANISTERS

