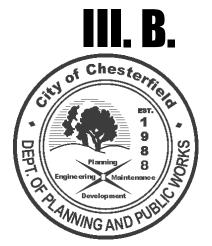
Memorandum

Department of Planning & Public Works

To: Planning and Public Works Committee

- From: Shawn Seymour, AICP Senior Planner
- Date: December 5, 2011



RE: <u>**T.S.P. 36-2011 AT&T (1972 Baxter Road)**</u>: A request to obtain approval for a Telecommunication Facility Siting Permit for a collocation of additional antennas and equipment on an existing high structure in a "R2" Residence District (15,000 sq. ft.) – zoned property located at the intersection of Baxter Road and a AmerenUE transmission line easement on the northeast side of Baxter Road (20S540700).

<u>Summary</u>

AT&T, has requested a collocation on at existing telecommunications high structure to allow for the location of an additional three (3) upgraded antennas to facilitate 4G LTE data service. The existing high structure is a AmerenUE transmission line tower located on Baxter Road on the north corner of its intersection with the AmerenUE transmission line easement. The existing antennas at this site were approved administratively under the previous City of Chesterfield telecommunications ordinance.

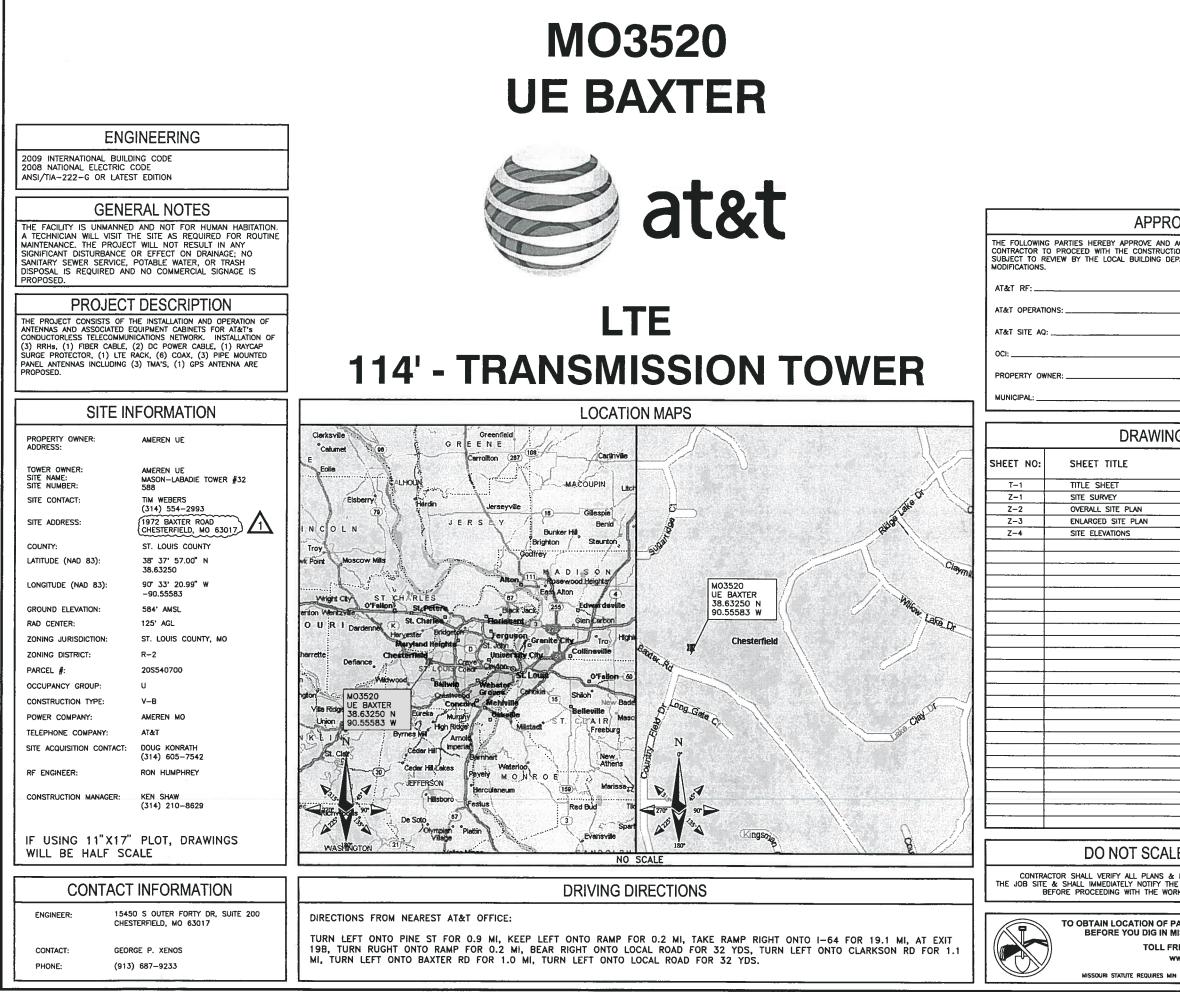
City of Chesterfield Ordinance 2391, which governs telecommunications and facilities siting, requires that the Planning Commission provide a venue for public hearing of requests for Telecommunications Siting Permits. Please note, the Commission does not provide a recommendation to the City Council, but rather generates a list of issues during the hearing. At the public hearing on September 26, 2011, no outstanding issues were identified that related to the request by AT&T.

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

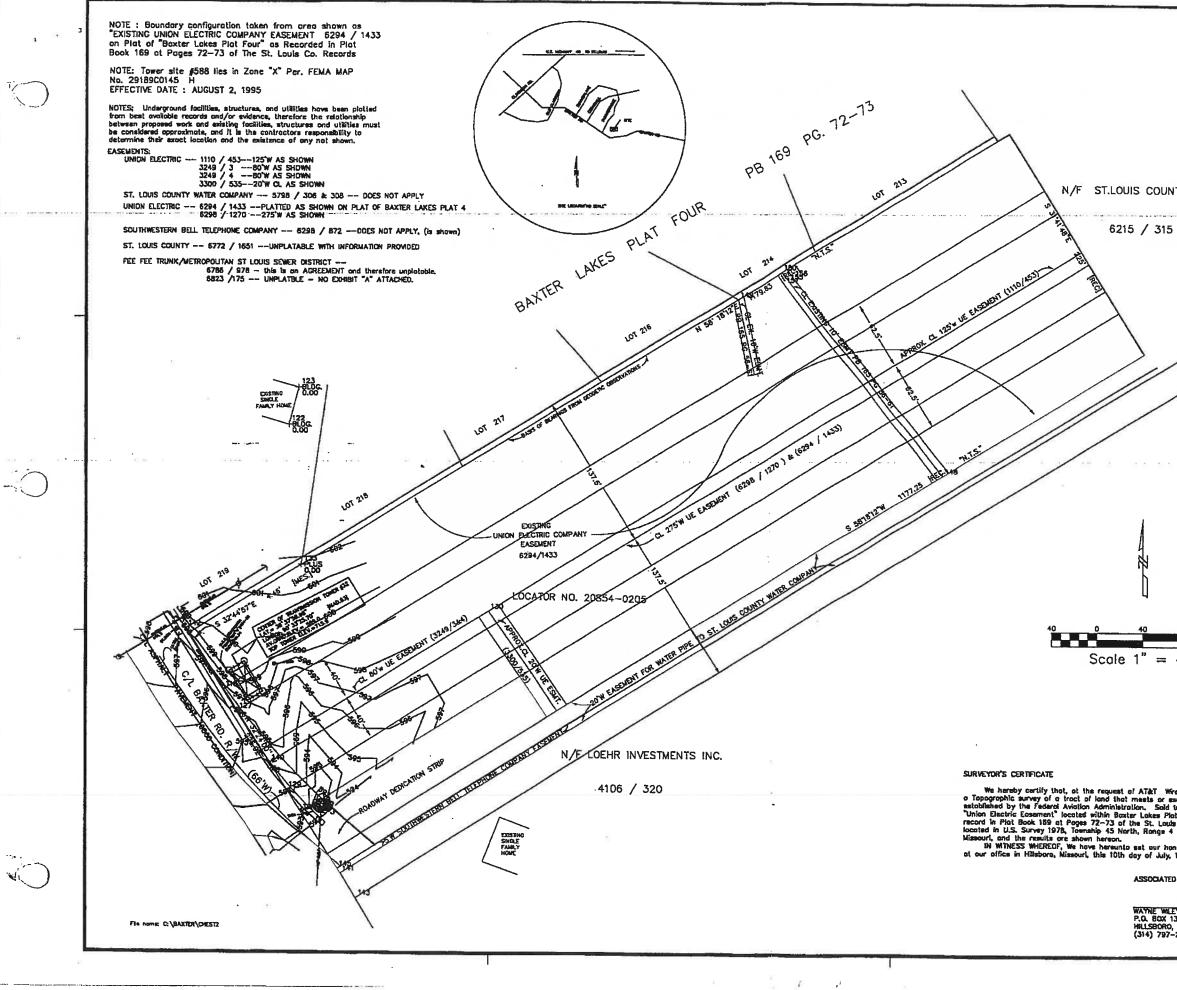
Respectfully submitted,

Shawn Seymour, AICP Senior Planner

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

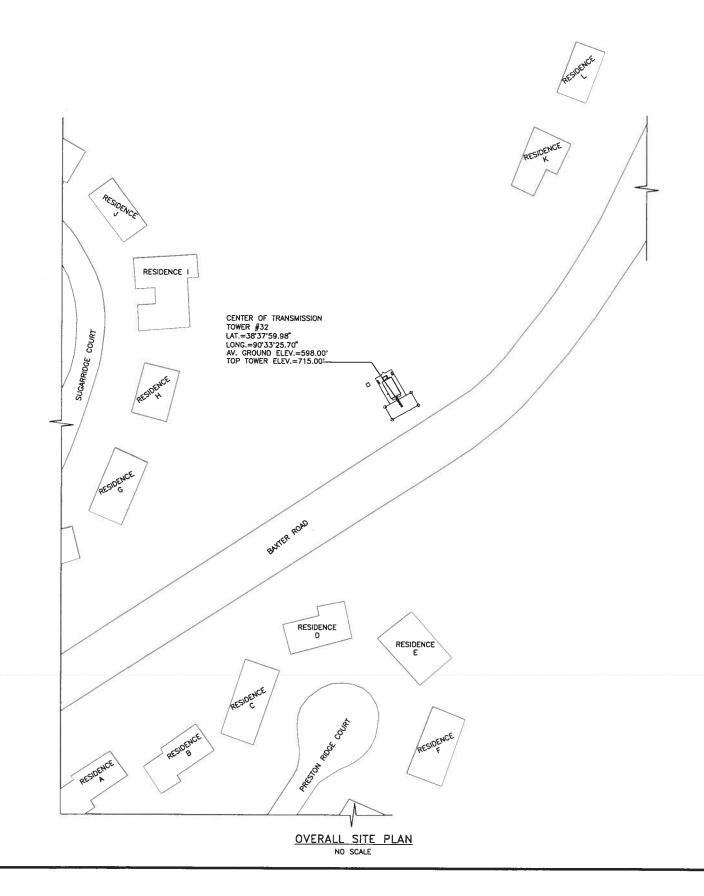


	13075 MANCHESTER RD, SUITE 100 ST LOUIS, MO 63131
OVALS ACCEPT THESE DOCUMENTS AND AUTHORIZE THE ION DESCRIBED HEREIN. ALL DOCUMENTS ARE PARTMENT AND MAY IMPOSE CHANGES OR	BLACK & VEATCH
DATE: DATE:	10950 GRANDVIEW DRIVE OVERLAND PARK, KANSAS 66210 (913) 458-2000 BLACK & VEATCH PROFESSIONAL DEMINESTING COMPORTION INSSOUR STATE CERTIFICATE OF AUTHORITY # 001846
DATE: DATE:	PROJECT NO: 168986 DRAWN BY: MAK
DATE:	CHECKED BY: GPX
	1 10/27/11 CHANGED SITE ADDRESS 0 08/10/11 ISSUED FOR ZONING REV DATE DESCRIPTION DARRYL B. CAIN NUMBER E-29401 DARRYL E. CAIN E-29401 PROFESSIONAL ENGINEER IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
	MO3520 UE BAXTER 1 1972 BAXTER ROAD CHESTERFIELD, MO 63017 LTE - TRANSMISSION TOWER
E DRAWINGS E EXISTING DIMENSIONS & CONDITIONS ON E ENGINEER IN WRITING OF ANY DISCREPANCIES RK OR BE RESPONSIBLE FOR SAME	SHEET TITLE TITLE SHEET
PARTICIPANTS UNDERGROUND FACILITIES MISSOURI, CALL MISSOURI ONE CALL REE: 1-800-344-7483 OR www.mo1cail.com N OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE	SHEET NUMBER T-1

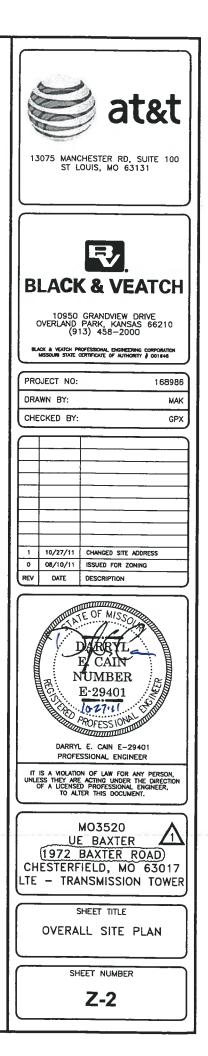


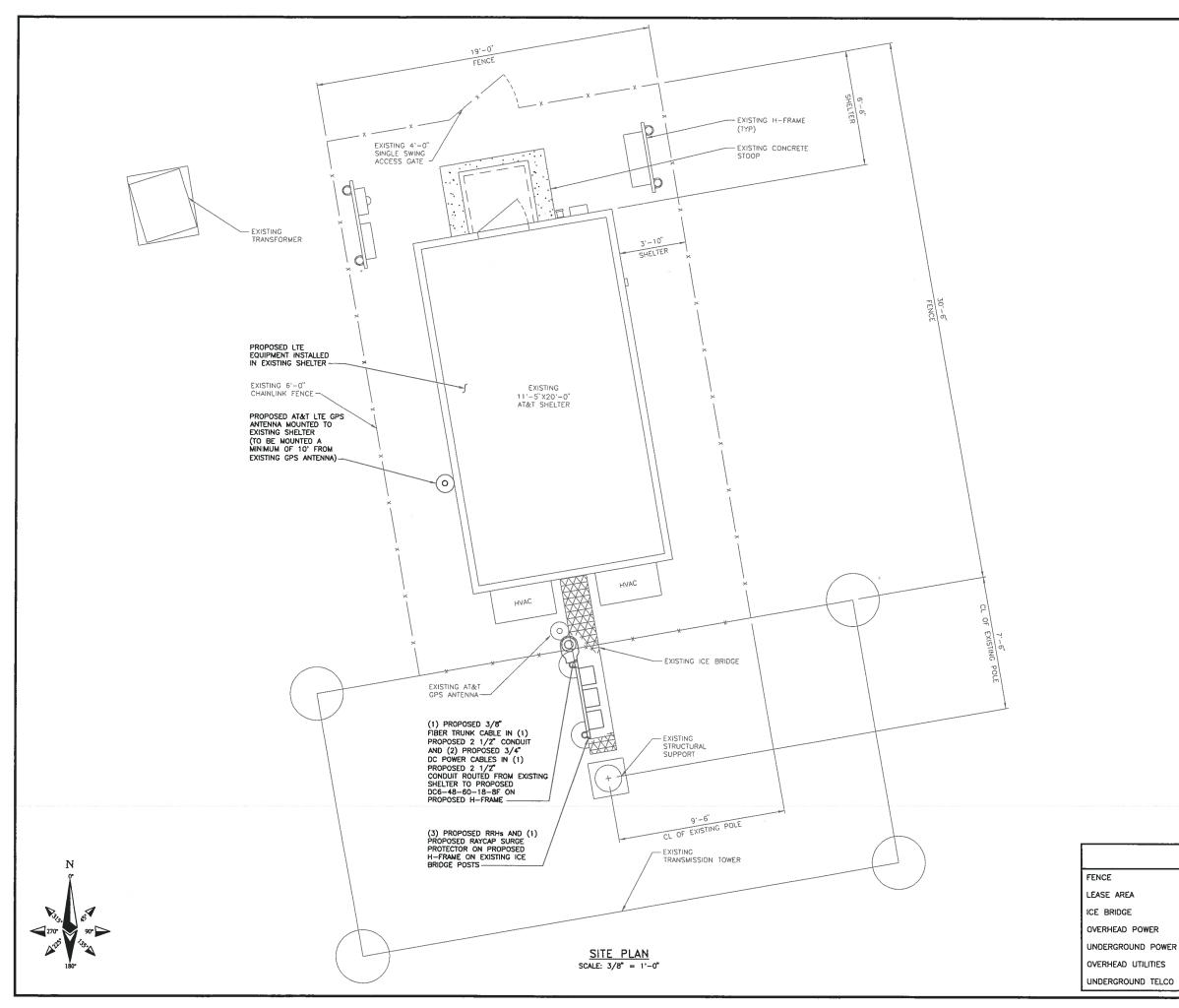
and the second se						
		REV	DATE	C	DESCRIPTION	DSGN
		1	7-9-97	CENERAL AC	DITIONS	MAG
		\square				
						-1
		┝─┴				
ITY WATER CO.						
						1
e de la companya de l						
				500		
		ric	VEU	FOR	CONSTRUC	TION
					_	
	EII		P 5 A •			
	rLL	UR	UAN	IIEL, IN		
	DAT	Έ		SEP	2 4 1997	
/		пот	E: IF REF	DRAWING IS	PHIC SCALE	
		DRAWN BY: D.W.W.				
		CHECKED BY:				
		APPROVED BY:				
	DATE DRAWN: 5-29-87					
ŀ						
		ASSOCIATED LAND SURVEYORS INC. P.O. BOX 137 HILLSBORO MO. 63050 PHONE.[314-797-2283]				
		FAX	;{3149	42-4001}		
			_			
120			\equiv			
40'					Als	
					Wireless Servic	ics.
			-		ST. LOUIS MT	
				-		
42 1		PCS	SITEN	0.: # 588		•
	-					
		SITE	ADDRE	5S:		
reless, inc. we have exe acceds the 1-A closelfic	cation					r.
Vict of land balance where	ed for	TITLE:				
tract of land being sha of Four, a subdivision fit a County Lond Records.				VIL	SURV	-~
of Four, a subdivision fit s County Land Records. East, St. Louis County nd and affixed my affici	3					I
at Four, a subdivision fit s County Land Records, East, SL. Louis County, nd and affixed my affic 1997.	iol scol	FD			DRAWING NO	I
of Four, a subdivision fit s County Land Records. East, St. Louis County nd and affixed my affici	iol scol		CONTRA	CT NO.	DRAWING NO.	I
th Four, a subdivision fit s County Lond Records, East, St. Louis County, and and affixed my affici 1997. D LAND SURVEYORS, INC EV. R.L.S. 1530	iol scol	21	CONTRA	אס. 04	drawing no. 1 OF 1	I
nt Four, a subdivision R s County Land Records, East, SL Louis County, and and affixed my affici 1997. D LAND SURVEYORS, INC 24 R.L.S. 1530	iol scol	21	CONTRA	CT NO.		

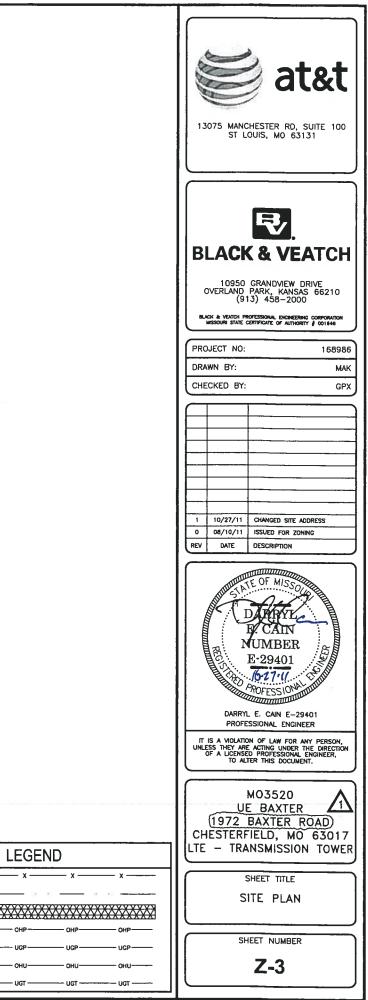
PARCEL LINES, ZONE LINES AND OTHER SITE FEATURES SHOWN ARE COMPILED FROM EXISTING PLANS AND OTHER DATA. LOCATION OF PARCEL LINES, ZONE LINES AND SITE FEATURES ARE NOT TO BE CONSTRUED AS THE RESULT OF AN ACTUAL FIELD SURVEY AND SUBJECT TO ANY CONDITION THAT A SURVEY MAY REVEAL.



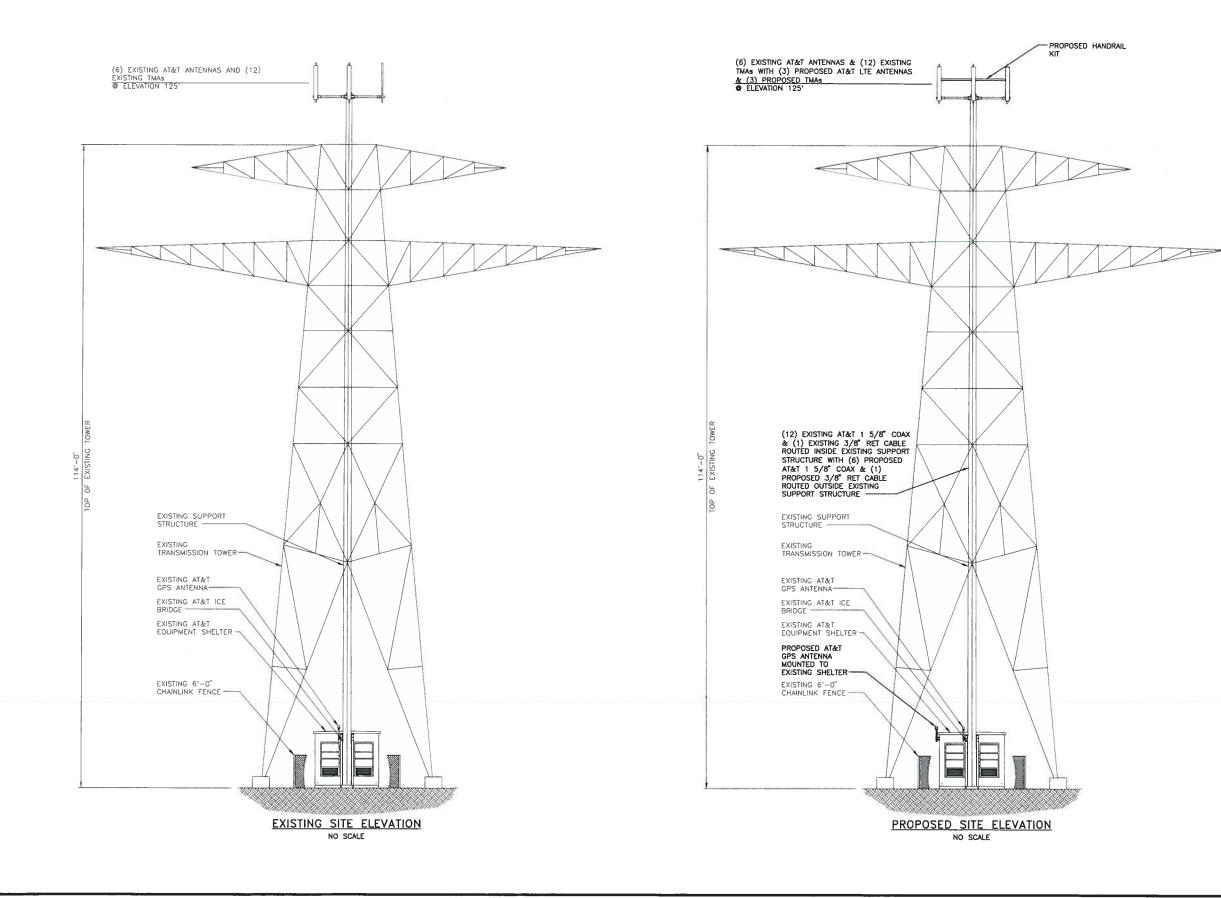
OM CL OF SELF SUPPORT
466'-0"±
400'-0"±
307'-0"±
210'-0"±
212'-0"±
312'-0"±
269'0"±
237'-0"±
234'-0"±
264'-0"±
254'-0"±
175'-0"±

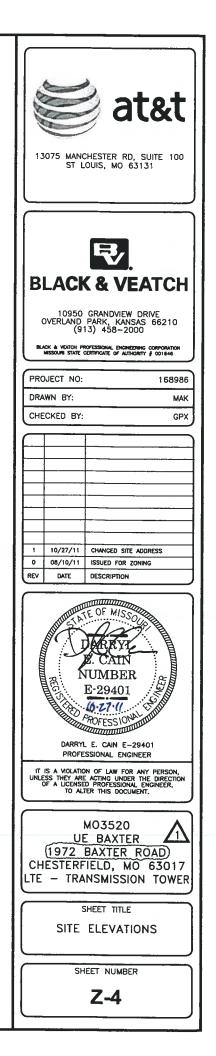






— x —	x	x
<u> </u>	s <u> </u>	e e
	XXXXXXXXX	XXXXXXXX
OHP	OHP	OHP
UGP	UGP	
они	—— они——	
UGT	UGT	UGT







August 5, 2011

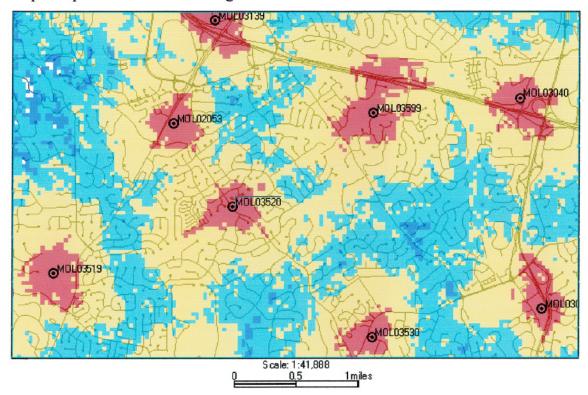
The following is a brief explanation of why AT&T Mobility is proposing to have the current wireless communication facility at 1976 Baxter Road modified. This facility is labeled as MOL03520 on Map 1. Currently this facility is only capable of broadcasting our older technologies.

This facility currently is broadcasting our "2G" technology (called GSM) and our "3G" technology (called UMTS). 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 all 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. These technologies require that we use a total of 3 antennas for each direction covered. This site, like most of our locations, serves three directions creating a need for 9 antennas. This requires us to add 3 additional antennas for this location.

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